



CONTRACT NO: HK/2015/01

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

**ENVIRONMENTAL PERMIT NO. EP-364/2009/D,
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-01/364/2009,
FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-
07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B AND
FEP-11/364/2009/B**

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- APRIL 2016 -

CLIENTS:

**Civil Engineering and Development
Department**

and

Highways Department

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DATE:

13 May 2016

Ref.: AACWBIECEM00_0_8084L.16

13 May 2016

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

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

**Monthly Environmental Monitoring and Audit Report (April 2016)
for EP-364/2009/D, FEP-01/364/2009, FEP-02/364/2009, FEP-
05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-
09/364/2009/B, FEP-10/364/2009/B & FEP-11/364/2009/B**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for April 2016 received by e-mail on 13 May 2016 for our review and comment.

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

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

Yours sincerely,



David Yeung
Independent Environmental Checker

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	4
1. INTRODUCTION.....	14
1.1 Scope of the Report	15
1.2 Structure of the Report	15
2. PROJECT BACKGROUND.....	17
2.1 Background	17
2.2 Scope of the Project and Site Description	17
2.3 Division of the Project Responsibility	18
2.4 Project Organization and Contact Personnel.....	19
3. STATUS OF REGULATORY COMPLIANCE.....	24
3.1 Status of Environmental Licensing and Permitting under the Project.....	26
4. MONITORING REQUIREMENTS.....	40
4.1 Noise Monitoring.....	40
4.2 Air Quality Monitoring	42
5. MONITORING RESULTS.....	44
5.1 Noise Monitoring Results.....	45
5.2 Real Time Noise Monitoring Results.....	49
5.3 Air Quality Monitoring Results	51
5.4 Waste Monitoring Results	56
6. COMPLIANCE AUDIT	61
6.1 Noise Monitoring	61
6.2 Air Quality Monitoring	63
6.3 Review of the Reasons for and the Implications of Non-compliance	65
6.4 Summary of action taken in the event of and follow-up on non-compliance	65
7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS.....	67
8. ENVIROMENTAL SITE AUDIT	68
9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION.....	72
10. CONCLUSION	77

LIST OF TABLES

Table 2.1	Schedule 2 Designated Projects under this Project
Table 2.2	Details of Individual Contracts under the Project
Table 2.3	Contact Details of Key Personnel
Table 3.1	Summary of the current status on licences and/or permits on environmental protection pertinent to the Project
Table 3.2	Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01
Table 3.3	Summary of submission status under FEP-02/364/2009
Table 3.4	Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02
Table 3.5	Summary of submission status under FEP-01/364/2009
Table 3.6	Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18
Table 3.7	Summary of submission status under FEP-05/364/2009/A
Table 3.8	Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15
Table 3.9	Summary of submission status under FEP-06/364/2009/A
Table 3.10	Cumulative Summary of Valid License and Permits under Contract no. HY/2009/19
Table 3.11	Summary of submission status under FEP-07/364/2009/D
Table 3.12	Cumulative Summary of Valid License and Permits under Contract no. HK/2012/08
Table 3.13	Summary of submission status under FEP-09/364/2009/B
Table 3.14	Cumulative Summary of Valid License and Permits under Contract no. HY/2010/08
Table 3.15	Summary of submission status under FEP-10/364/2009/B
Table 3.16	Cumulative Summary of Valid License and Permits under Contract no. HY/2011/08
Table 3.17	Summary of submission status under FEP-11/364/2009/B
Table 4.1	Noise Monitoring Stations
Table 4.2	Real Time Noise Monitoring Stations
Table 4.3	Air Quality Monitoring Stations
Table 5.1	Noise Monitoring Stations for Contract no. HY/2009/18
Table 5.2	Noise Monitoring Station for Contract no HK/2009/01 and HK/2009/02
Table 5.3	Noise Monitoring Stations for Contract no. HY/2009/15
Table 5.4	Noise Monitoring Stations for Contract no. HY/2009/19
Table 5.5	Noise Monitoring Stations for Contract no. HY/2010/08
Table 5.6	Noise Monitoring Stations for Contract no. HY/2011/08
Table 5.7	Real Time Noise Monitoring Stations for Contract no. HY/2009/19
Table 5.8	Real Time Noise Monitoring Stations for Contract no. HY/2011/08
Table 5.9	Air Quality Monitoring Station for Contract no. HY/2009/18
Table 5.10	Air Quality Monitoring Station for Contract no. HK/2009/01
Table 5.11	Air Quality Monitoring Station for Contract no. HK/2009/02
Table 5.12	Air Quality Monitoring Stations for Contract no. HY/2009/15
Table 5.13	Air Quality Monitoring Station for Contract no. HY/2009/19
Table 5.14	Air Quality Monitoring Station for Contract no. HK/2012/08
Table 5.15	Air Quality Monitoring Stations for Contract no. HY/2010/08
Table 5.16	Air Quality Monitoring Stations for Contract no. HY/2011/08
Table 5.17	Details of Waste Disposal for Contract no. HK/2009/01
Table 5.18	Details of Waste Disposal for Contract no. HK/2009/02
Table 5.19	Details of Waste Disposal for Contract no. HY/2009/18
Table 5.20	Details of Waste Disposal for Contract no. HY/2009/15
Table 5.21	Details of Waste Disposal for Contract no. HY/2009/19
Table 5.22	Details of Waste Disposal for Contract no. HK/2012/08
Table 5.23	Details of Waste Disposal for Contract no. HY/2010/08
Table 5.24	Details of Waste Disposal for Contract no. HY/2011/08
Table 8.1	Summary of Environmental Inspections for Contract no. HY/2009/15
Table 8.4	Summary of Environmental Inspections for Contract no. HK/2009/01
Table 8.5	Summary of Environmental Inspections for Contract no. HK/2009/02
Table 8.6	Summary of Environmental Inspections for Contract no. HK/2012/08
Table 8.7	Summary of Environmental Inspections for Contract no. HY/2010/08



Table 9.1	<i>Cumulative Statistics on Complaints</i>
Table 9.2	<i>Cumulative Statistics on Successful Prosecutions</i>
Table 10.1	<i>Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month</i>

LIST OF FIGURES

<u>Figure 2.1</u>	Project Layout
<u>Figure 2.2</u>	Project Organization Chart
<u>Figure 4.1</u>	Locations of Environmental Monitoring Stations

LIST OF APPENDICES

<u>Appendix 3.1</u>	Environmental Mitigation Implementation Schedule
<u>Appendix 4.1</u>	Action and Limit Level
<u>Appendix 4.2</u>	Copies of Calibration Certificates
<u>Appendix 5.1</u>	Monitoring Schedule for Reporting Month and Coming month
<u>Appendix 5.2</u>	Noise Monitoring Results and Graphical Presentations
<u>Appendix 5.3</u>	Air Quality Monitoring Results and Graphical Presentations
<u>Appendix 5.4</u>	Real-time Noise Monitoring Results and Graphical Presentations
<u>Appendix 6.1</u>	Event Action Plans
<u>Appendix 6.2</u>	Notification of Exceedance
<u>Appendix 9.1</u>	Complaint Log
<u>Appendix 10.1</u>	Construction Programme of Individual Contracts

EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – [April 2016](#) specific for Environmental Permit no. EP-364/2009/D, Further Environmental Permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B and FEP-11/364/2009/B. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of [27 March 2016 to 26 April 2016](#).
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting month, the principal work activities of individual contracts are included as follows:

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

- [Drainage works](#)
- [Road works](#)
- [Landscaping works](#)
- [Modification and Construction of Sign Gantries / Traffic Signs](#)
- [Maintenance works](#)

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

- [Stage 3a backfilling works](#)
- [Stage 3b backfilling works](#)
- [Stage 4 construction tunnel structure](#)
- [Reinstatement of outfall](#)
- [Reinstatement of triangular planter at Fenwick Pier Street](#)

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

- [Site clearance works was on going at OHVD at Tunnel Portion 1.](#)
- [Waterproofing works and base slab construction were completed](#)
- [Middle wall and side wall construction](#)
- [Diaphragm wall panel construction](#)

- King post work was completed
- Instrumentation work was on going

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

- Backfilling works at TPCWAW
- Dismantle steel work at TPCWAW
- Remaining works inside tunnel at TS4 and TPCWAE
- Remedial works at Mined Tunnel
- Reinstatement of Shaft B between TPCWAW and TPCWAE

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/Piling works/Approach Ramp
- Bridge segment erections
- Hing Fat Street modification works
- EVA bulkhead removal
- Hing Fat Street Slip Road Bridge E parapet construction

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

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- D-wall drill cutting works
- Construction works for subway extension



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

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

Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M1a - Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w - International Financial Centre East Podium and International Finance Centre West Podium and M8 - City Hall on weekly basis in the reporting month.
- v. Two limit level exceedances were recorded at noise monitoring station M1a - Harbour Road Sports Center on 29 March 2016 and 12 April 2016. The exceedances were concluded as non-project related.
- vi. Two limit level exceedances were recorded at noise monitoring station M6 - HK Baptist Church Henrietta Secondary School on 11 and 19 April 2016. The exceedances were concluded as non-project related.
- vii. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot for construction activities at IEC bridge deck. No limit level exceedance was recorded in the reporting month.
- viii. 24-hour real time noise monitoring was conducted at RTN2a - Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.
- ix. 24-hour real time noise monitoring was conducted at RTN3 - Yu Lee Mo Fan Memorial School. No project related exceedance was recorded in the reporting month.
- x. 24-hour real time noise monitoring was conducted at RTN4 - Causeway Bay Community Centre. No project related exceedance was recorded in the reporting month.

Air Quality Monitoring

- xi. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b - Oil Street Site Office; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a - Society for the Prevention of Cruelty to Animals; CMA5b - Pedestrian Plaza; MA1e and MA1w - International Finance Centre eastern and western podium on every six days basis.
- xii. One action level exceedance for TSP monitoring was recorded at CMA5b - Pedestrian Plaza on 14 April 2016 in the reporting month. The exceedance was concluded as non-project related.
- xiii. Due to interruption of electricity supply, the following 24hr TSP monitoring were rescheduled :-
 - The 24hr TSP monitoring at air quality monitoring station CMA1b was rescheduled from 13 April 2016 to 14 April 2016
 - The 24hr TSP monitoring at air quality monitoring station CMA3a was rescheduled from 01 April 2016 to 02 April 2016.
 - The 24hr TSP monitoring at air quality monitoring station CMA5b was rescheduled from 13 April 2016 to 14 April 2016

Complaints, Notifications of Summons and Successful Prosecutions

- xiv. Five environmental complaints were received in the reporting month.
- xv. First public complaint regarding direct discharge of muddy effluent referred by EPD was received by ET on 31 March 2016 (Case Ref.: H08/RS/00006732-16). The complainant reported that muddy water was observed discharged from the 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.

ET confirmed with the Resident Site Staff that pipe Laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016. The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole.

Based on the site records confirmed by RSS, pipe laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016. The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole. In addition, no site discharge point was connected to the aforesaid U-channel and the concerned manhole. In view of the environmental concern, the following remedial and precautionary actions were taken by the Contractor of HY/2009/19 on 29 March 2016.

- i) Plugging the inlet point of the concerned manhole (connecting to the abandoned U-channel) with concrete;
- ii) Plugging the outlet of the concerned manhole (connecting to the observed drain hole) with concrete;
- iii) Filling the concerned manhole with rubbles;
- iv) Shifting the unused wastewater treatment plant around the concerned location to other site location for use.

Follow-up inspection was conducted by the Environmental Team on 06 April 2016. No further contaminated runoff discharge was observed from the concerned drain hole and precautionary measures including provision of concrete bunding was implemented along the site boundary at the concerned location to avoid potential surface overflow. The pipe laying works and the excavation works was found at distant location away from the concerned drain hole with no surface drain connection and no particular effluent was generated from the work. As such, no information indicate the discharge was related to the above construction activities. However, it was noted that another section of surface drainage channel within the construction site (perpendicular in direction to the initial identified abandoned U-channel) was

also in connection to concerned manhole and minor residue mud deposition was observed within the surface drainage channel. Despite the above additional surface drainage channel identified, the outlet point of concerned final manhole (in connection with the observed drain hole) was observed plugged with concrete and filled with rubbles as rectification measure to avoid any further contaminated runoff discharge via the observed drain hole.

Nevertheless, the Contractor of HY/2009/19 was reminded to conduct regular cleaning works for site surface drainage channel to avoid accumulation of silt and soil and avoid potential overflow by directing the surface runoff within the surface drainage channel to proper collection point for necessary treatment prior to discharge. The Contractor of HY/2009/19 was also reminded to check and review other surface drainage channel within the construction site to avoid potential runoff related impact via surface drainage channel to the nearby waters.

In addition, it was noticed that water was discharged from a piping extending from City Garden and the discharged water would result in seepage across the site hoarding into the abandoned U-channel. The Contractor of HY/2009/19 was suggested to liaise with the City Garden Management Office for proper connection of the observed pipping with discharge to prevent further seepage water into the construction site.

- xvi. Second 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).

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

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.

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.

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.

- xvii. Third public complaint regarding landscape aspect was referred by RSS was received by ET on 11 April 2016 (Case Ref.:2-2036525055). The complainant reported that a tree (6 meters in height and 1.5 meters in diameter) was found toppled at 111 Victoria Park Road, near Lamp post 38632 and blocking the Pedestrian pathway on 27 March 2016.

ET confirmed with the Resident Site Staff that the concerned tree was identified as T710 and no construction activity in the vicinity of tree T710 on 27 March 2016 and no construction works are required in or near its vicinity.

Based on the site records confirmed by RSS, the concerned tree was identified as the retained tree T710 maintained under the Contract of HY/2010/08 and the concerned tree T710 was located outside the assessment area in the relevant Project EIA Report. No construction works are required in the vicinity of concerned tree T710 and no construction activity was conducted in the vicinity of tree T710 on 27 March 2016. Nevertheless, based on RSS information, recent tree monitoring report indicates an existing cavity at trunk and the concerned tree T710 has been recommended to be felled in the tree risk assessment Form 2.

With respect to the observed incident of the toppling of the concerned tree T710, the 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.

- xviii. Forth public complaint regarding muddy dispersion referred by RSS was received by ET on 13 April 2016. The complainant reported that muddy water was observed to disperse from Contract HK/2009/02 site area to Victoria Harbour occasionally as there was no silt curtain installed under the buoyancy floats. The location concerned was the East of Star Ferry Piers (Contract No. HK/2009/02).

ET confirmed with the Resident Site Staff that no marine construction activities or land construction activities under Contract HK/2009/02 at the concerned location on 12 April 2016. Surface runoff control measures including provision of concrete bund at the concerned location was implemented by Contract HK/2009/02.

No soil & silt deposition along the seawall at the concerned location on 12 April 2016.

No discharge point located in the vicinity of the concerned location under Contract HK/2009/02.

Silt curtain with buoyancy floats acting as anchor points was installed at Monitoring Station RW21-P789 for Water intakes.

Based on the site records confirmed by RSS, no marine construction activities or land construction activities was carried out under Contract HK/2009/02 at the concerned location on 12 April 2016 and no soil and silt deposition was found along the seawall at the concerned

location and precautionary measures for site runoff control including provision of concrete bund along boundary of site area near the waterfront around the concerned location was implemented by the Contractor HK/2009/02. In addition, no discharge point under Contract HK/2009/02 was located in the vicinity of the concerned location. Based on information confirmed by RSS, the buoyancy floats deployed at the concerned location are acting as the anchor points for the silt curtain deployed around the WQM Station RW21-P789 for the WSD and Cooling Water Intakes group.

Follow-up inspection was conducted on 14 April 2016, no surface runoff from the construction site nor discharge of contaminated effluent was observed around the concerned location and precautionary measures including the provision of concrete bund at the concerned location was observed maintained by the Contractor of HK/2009/02 and the silt curtain deployed around the WQM station RW21-P789 was generally in order.

In view of the public concern on the water quality, the Contractor of HK/2009/02 was reminded to maintain effective surface runoff protection and provide proper collection point of construction effluent around the concerned location to avoid potential surface runoff related impact.

- xix. Fifth public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning.

ET confirmed with the Resident Site Staff that internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation.

Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.

According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.

Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016

and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.

Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.

Site Inspections and Audit

- xx. 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.
- xxi. 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.
- xxii. 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.
- xxiii. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

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

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

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

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

- Stage 3b backfilling works
- Stage 4 construction tunnel structure
- Reinstatement of outfall
- Reinstatement of triangular planter at Fenwick Pier Street

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

- Construction of pre-cast concrete cover
- Tunnel OHVD construction
- Tunnel wall and top slab construction
- Waterproofing layer at side wall slap application
- Road side barrier construction
- Removal of remaining temporary sheetpile seawall
- Removal of blockwork seawall near the interface between Portion 2 and Portion 5
- Diaphragm wall construction
- Excavation work
- Strut installation

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

- Remedial works at Mined Tunnel
- Remaining works inside tunnel at TS4 and TPCWAE
- Removal of ELS and backfilling works at TPCWAW
- Reinstatement of Shaft B between TPCWAW and TPCWAE
- Saw cutting of diaphragm wall at TPCWAW

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/Piling works/Approach Ramp
- Bridge segment erections
- Hing Fat Street modification works
- EVA bulkhead removal
- Hing Fat Street Slip Road Bridge E parapet construction

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

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- D-wall drill cutting works
- Construction works for subway extension

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

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

1 INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009/D and Further Environmental permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009B and FEP-11/364/2009B to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/D, Further Environmental Permit (FEP) nos. FEP-01-364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B and FEP-11/364/2009/B during the period [27 March 2016 to 26 April 2016](#).

1.2 Structure of the Report

- Section 1** ***Introduction*** – details the scope and structure of the report.
- Section 2** ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3** ***Status of Regulatory Compliance*** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4** ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5** ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.
- Section 6** ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7** ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent



activities of the concurrent Projects.

Section 8 ***Environmental Site Audit*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 9 ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 10 ***Conclusion***

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 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	2162 9909	2634 1626
		Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	

Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager	Mr. Terry Tsang	6683 9394	
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Ms. Connie Chan	6157 7057	
Chun Wo – CRGL Joint 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. David Lau	3758 8879	2570 8013
		Deputy Project Manager	Mr. William Luk	9456 9819	
		Deputy Site Agent	Eric Fong	6191 9337	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Jimmy Chu	2214 7700	2140 6799
		Deputy Site Agent	Mr. Bob Yeung	2214 7703	
		Environmental Officer	Mr. Chris Chan	2823 1161	
		Assistant Environmental Engineer	Mr. Christy So	3937 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	2566 2192
		Contractor's Representative	Mr. Andrew Wong	3557 6371	
		Environmental Officer	Mr. Andy Mak	3557 6215	
		Environmental Supervisor	Mr. Harry Wong	3557 6348	
China State-Leader 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	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Supervisor	Mr. Y.L. Ho	6050 4919	
China State	Contractor under Contract no.HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dr. Dave Chan	3467 4277	
		Environmental Officer	Mr. C.M. Wong	3557 6464	
		Environmental Supervisor	Mr. Louis Lam Tsz Kwan	3557 6470	
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Project Manager	Paul Evans	2823 1111	21406799
		Site Agent	Colman Wong	9730 0806	
		Environmental Officer	Malcom Leung	3973 0850	
		Environmental Supervisor	Christy So	3973 1065	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

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

FEP-05/364/2009/A

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

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

- Stage 3a backfilling works
- Stage 3b backfilling works
- Stage 4 construction tunnel structure
- Reinstatement of outfall
- Reinstatement of triangular planter at Fenwick Pier Street

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

- Site clearance works was on going at OHVD at Tunnel Portion 1.
- Waterproofing works and base slab construction were completed
- Middle wall and side wall construction
- Diaphragm wall panel construction
- King post work was completed
- Instrumentation work was on going

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

- Backfilling works at TPCWAW
- Dismantle steel work at TPCWAW
- Remaining works inside tunnel at TS4 and TPCWAE
- Remedial works at Mined Tunnel
- Reinstatement of Shaft B between TPCWAW and TPCWAE

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/Piling works/Approach Ramp
- Bridge segment erections

- Hing Fat Street modification works
- EVA bulkhead removal
- Hing Fat Street Slip Road Bridge E parapet construction

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

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- D-wall drill cutting works
- Construction works for subway extension

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

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

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

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

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

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

- Stage 3b backfilling works
- Stage 4 construction tunnel structure
- Reinstatement of outfall
- Reinstatement of triangular planter at Fenwick Pier Street

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

- Construction of pre-cast concrete cover
- Tunnel OHVD construction
- Tunnel wall and top slab construction
- Waterproofing layer at side wall slap application
- Road side barrier construction
- Removal of remaining temporary sheetpile seawall
- Removal of blockwork seawall near the interface between Portion 2 and Portion 5
- Diaphragm wall construction
- Excavation work
- Strut installation

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

- Remedial works at Mined Tunnel
- Remaining works inside tunnel at TS4 and TPCWAE
- Removal of ELS and backfilling works at TPCWAW
- Reinstatement of Shaft B between TPCWAW and TPCWAE
- Saw cutting of diaphragm wall at TPCWAW

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

- Pier construction for IEC

- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/Piling works/Approach Ramp
- Bridge segment erections
- Hing Fat Street modification works
- EVA bulkhead removal
- Hing Fat Street Slip Road Bridge E parapet construction

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

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- D-wall drill cutting works
- Construction works for subway extension

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

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

3 STATUS OF REGULATORY COMPLIANCE

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Superseded
Environmental Permit	EP-364/2009/D	24 Nov 2015	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	15 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 March 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 July 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Superseded
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 June 2012	Surrendered

Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	Valid

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

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
Construction Noise Permit (CNP) for non-pilling equipment	GW-RS1134-15	23 Oct 2015	08 Nov 2015 to 07 May 2016	Valid
	GW-RS1135-15	23 Oct 2015	26 Nov 2015 to 25 May 2016	Valid
	GW-RS1228-15	13 Nov 2015	16 Nov 2015 to 13 May 2016	Valid
	GW-RS1309-15	27 Nov 2015	30 Nov 2015 to 26 May 2016	Valid
	GW-RS1338-15	11 Dec 2015	01 Jan 2016 to 30 June 2016	Valid
	GW-RS0041-16	22 Jan 2016	25 Jan 2016 to 23 Jul 2016	Valid
	GW-RS0089-16	05 Feb 2016	20 Feb 2016 to 19 July 2016	Valid
	GW-RS0093-16	05 Feb 2016	22 Feb 2016 to 21 July 2016	Valid
	GW-RS0152-16	18 Feb 2016	25 Feb 2016 to 24 Aug 2016	Valid
	GW-RS0243-16	11 Mar 2016	14 Mar 2016 to 13 Sep 2016	Valid
	GW-RS0384-16	19 Apr 2016	22 Apr 2016 to 19 Oct 2016	Valid
Discharge License	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
	WT00021138-2015	17 Mar 2014	31 Mar 2020	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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 Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-pilling equipment	GW-RS1121-15	20 Oct 2015	22 Oct 2015 to 18 Apr 2016	Cancelled
	GW-RS1150-15	26 Oct 2015	28 Oct 2015 to 27 Apr 2016	Valid
	GW-RS1187-15	28 Oct 2015	30 Oct 2015 to 27 Apr 2016	Valid
	GW-RS1413-15	24 Dec 2015	02 Jan 2016 to 01 Jul 2016	Cancelled
	GW-RS1474-15	05 Jan 2016	08 Jan 2016 to 05 Apr 2016	Expired
	GW-RS0061-16	26 Jan 2016	29 Jan 2016 to 26 Apr 2016	Expired
	GW-RS0083-16	01 Feb 2016	3 Feb 2016 to 01 Aug 2016	Valid
	GW-RS0311-16	24 Mar 2016	25 Apr 2016 to 24 May 2016	Valid
	GW-RS0310-16	24 Mar 2016	27 Apr 2016 to 30 Apr 2016	Valid
	GW-RS0321-16	01 Apr 2016	5 Apr 2016 to 05 Jul 2016	Valid
	GW-RS0390-16	22 Apr 2016	27 Apr 2016 to 26 Oct 2016	Valid
	GW-RS0399-16	27 Apr 2016	27 Apr 2016 to 26 Oct 2016	Valid
	GW-RS0403-16	27 Apr 2016	30 Apr 2016 to 24 Sep 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Water Discharge License	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	01 Aug 2011	31 July 2016	Valid
	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-146	24 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid

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

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

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-RS1206-15	06 Nov 2015	12 Nov 2015 to 31 Mar 2016	Expired
	GW-RS1383-15	14 Dec 2015	19 Dec 2015 to 27 Mar 2016	Cancelled
	GW-RS1415-15	24 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid
	GW-RS0057-16	26 Jan 2016	27 Jan 2016 to 31 Mar 2016	Expired
	GW-RS0335-16	7 Apr 2016	08 Apr 2016 to 30 Sep 2016	Valid
Discharge Licenses	WT00013967-2012	17 Sep 2012	30 Sep 2017	Cancelled
	WT00014966-2013	08 Jan 2013	31 Jan 2018	Cancelled
	WT00020725-2015	14 Jan 2015	30 Jul 2017	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
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1303-15	26 Nov 2015	26 Nov 2015 to 25 May 2016	Valid
	GW-RS1160-15	26 Oct 2015	28 Oct 2015 to 25 Apr 2016	Expired
	GW-RS0232-16	08 Mar 2016	9 Mar 2016 to 08 Sep 2016	Valid
	GW-RS0233-16	14 Mar 2016	14 Mar 2016 to 10 Sep 2016	Valid
	GW-RS0235-16	10 Mar 2016	12 Mar 2016 to 08 Sep 2016	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jun 2016	Valid
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	26 Jun 2015	17 Apr 2016 to 16 Jul 2016	Valid
Water Discharge License (TS1)	WT00008780-2011	24 Nov 2011	24 Nov 2011 to 31 Mar 2016	Expired
Water Discharge License (Discharge at CHT area)	WT00019250-2014	6 Jun 2014	06 Jun 2014 to 31 May 2016	Valid
Water Discharge Licence (Discharge at TPCWAW)	WT00020601-2014	18 Mar 2015	18 Mar 2015 to 31 Mar 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-RS1324-15	01 Dec 2015	08 Dec 2015 to 07 Jun 2016	Valid
	GW-RS1398-15	17 Jun 2015	18 Dec 2015 to 17 Jun 2016	Valid
	GW-RS0197-16	02 Mar 2016	02 Mar 2016 to 01 Sep 2016	Valid
	GW-RS0330-16	05 Apr 2016	05 Apr 2016 to 04 Oct 2016	Valid
Water Discharge License	WT00010093-2011	17 Aug 2012	30 Sep 2016	Valid
	WT00010865-2011	03 Nov 2011	30 Nov 2016	Cancelled
Dumping Permit (Approach Ramp) (Type 1 – Open Sea Disposal)	EP/MD/16-092	20 Nov 2015	15 May 2016	Cancelled

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

EP Condition	Submission	Date of Submission
Condition 2.13	Landscape Plan (Rev.4)	22 March 2016
Condition 2.9	Noise Management Plan (Rev.4)	15 February 2016

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	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	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0079-16	1 Feb 2016	3 Feb 2016 to 02 Aug 2016	Valid
	GW-RS0212-16	8 Mar 2016	10 Mar 2016 to 08 Sep 2016	Cancelled
	GW-RS0386-16	20 Apr 2016	22 Apr 2016 to 19 Oct 2016	Valid
Water Discharge Licence	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-09/364/2009/B

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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	2013-07-09	2018-07-28	Cancelled
	WT00020468-2014	2014-12-03	2018-07-31	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1061-15	30 Sep 2015	02 Oct 2015 to 31 Mar 2016	Cancelled
	GW-RS1063-15	30 Sep 2015	02 Oct 2015 to 31 Mar 2016	Cancelled
	GW-RS0001-16	06 Jan 2016	06 Jan 2016 to 05 Jun 2016	Valid
	GW-RW0061-16	02 Feb 2016	02 Feb 2016 to 31 Jul 2016	Valid
	GW-RS0264-16	18 Mar 2016	18 Mar 2016 to 17 Sep 2016	Valid
	GW-RS0357-16	22 Apr 2016	22 Apr 2016 to 21 Oct 2016	Valid
	GW-RS0362-16	22 Apr 2016	22 Apr 2016 to 21 Oct 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0407-16	20 Apr 2016	20 Apr 2016 to 19 Oct 2016	Valid
	GW-RS0434-16	05 May 2016	24 May 2016 to 23 Nov 2016	Valid
	GW-RS1137-15	22 Oct 2015	22 Oct 2015 to 21 Apr 2016	Expired
	GW-RS1141-15	20 Oct 2015	22 Oct 2015 to 21 Apr 2016	Expired
	GW-RS1145-15	20 Oct 2015	22 Oct 2015 to 21 Apr 2016	Expired
	GW-RS1262-15	17 Nov 2015	18 Nov 2015 to 16 May 2016	Valid
	GW-RS1282-15	25 Nov 2015	25 Nov 2015 to 24 May 2016	Valid

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

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	N/A	Valid
Notification of Works Under APCO	LCAC-EN-LE-00017	7 Mar 2014	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Registration as a Chemical Waste Producer	5213-121-L2837-01	19 Apr 2016	N/A	Valid
	5213-151-L2837-02	09 Oct 2015	N/A	Registered
	5213-134-L2898-01	16 Nov 2015	N/A	Registered
Billing Account under Waste Disposal Ordinance	7019640	27 Mar 2014	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1235-15	12 Nov 2015	18 Nov 2015 to 30 Apr 2016	Valid
	GW-RS1369-15	14 Dec 2015	15 Dec 2015 to 31 May 2016	Valid
	GW-RS1423-15	24 Dec 2015	26 Dec 2015 to 31 May 2016	Valid
	GW-RS1426-15	29 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid
	GW-RS1433-15	29 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid
	GW-RS0147-16	17 Feb 2016	19 Feb 2016 to 31 Jul 2016	Valid
	GW-RS0159-16	17 Feb 2016	18 Feb 2016 to 31 Jul 2016	Valid
	GW-RS0222-16	8 Mar 2016	9 Mar 2016 to 31 Aug 2016	Valid
	GW-RS0284-16	23 Mar 2016	24 Mar 2016 to 31 Aug 2016	Valid
Water Discharge Licence	WT00020242-2014	04 Nov 2014	30 Nov 2019	Valid
	WT00020246-2015	15 Jul 2015	31 Jul 2019	Valid

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

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

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

* Remark 2: M7e has become a reference station starting from 7 Aug 2012

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	Oil Street Site Office**	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.

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.**

5.0 MONITORING RESULTS

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

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

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

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

5.1 Noise Monitoring Results

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

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

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

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

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

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

- 5.1.3 No action or limit level exceedance was recorded in this reporting month.
- 5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **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	Harbour Road Sports Centre

- 5.1.6 Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 29 March 2016 and 12 April 2016 in this reporting month.

5.1.7 Operation of multiple air compressor at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 29 March 2016 while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor as major noise contribution during monitoring on 12 April 2016. As such, the exceedances were considered as non-Project related.

5.1.8 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

5.1.9 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

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

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/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D

5.1.12 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

5.1.13 Two limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 11 and 19 April 2016 in the reporting month.

5.1.14 Traffic noise was observed during monitoring on 11 and 19 April 2016 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.

5.1.15 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **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 Road 8 Section) under FEP-09/364/2009/B

5.1.16 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

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

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

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

5.1.19 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

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



- 5.1.21 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.

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

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

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

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

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

- 5.2.6. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.
- 5.2.7. Limit level exceedances were recorded at RTN2a-Electric Centre on 02, 05, 06, 08, 21, 23, 25 and 26 April 2016 during daytime in the reporting month. On 02, 05 and 06 April 2016, only installation of pre-cast parapet, pipe laying works and concreting of blinding layer for pipe laying were undertaken by Contract HY/2009/19, no major noise concern of the works was

considered. On 08 April 2016, excavation and backfilling works and erection of concrete surround were conducted and no major noise concern was considered for the works. On 23 April 2016, backfilling works and concreting for manhole cover were conducted and no major noise concern was considered for the works. On 21, 25 and 26 April 2016, concreting and excavation for drain pipe were conducted and no major noise concern was considered for the works. Nevertheless, roof top water proofing works by non-CWB Contractor was undertaken immediately next to the noise monitoring station across the monitoring period across April 2016 and was considered as major noise contribution. As such, the exceedances were considered as non-Project related.

- 5.2.8. Limit level exceedances were recorded at RTN3-Yue Lee Mo Fan Memorial School on 13, 18 and 25 April 2016 in the reporting month. On 13, 18 and 25 April 2016 during the monitoring period, no construction works was undertaken under Contract HY/2009/19. Nevertheless, based on relevant data from Hong Kong observatory, adverse weather condition with significant rainfall was recorded on 13, 18 and 25 April 2016 and thunderstorm warning signal was hoisted on 13 and 25 April 2016 and considered as the major noise contribution. As such, the exceedances were considered as non-project related.
- 5.2.9. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre on 08 and 09 April 2016 in the reporting month. On 8 April 2016, minor vertical face drilling works was conducted and on 09 April 2016 crosshead concreting was conducted under HY/2009/19. In view of the same construction sequence of vertical face drilling was extended to other time period with no noise emanation recorded and drilling works immediately next to the monitoring station by non-CWB Contractor for external panel installation at Causeway Bay Community Centre was conducted on the monitoring date, the exceedances were considered as non- Project related.
- 5.2.10. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4.**

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

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

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

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a ¹	North Point	Hong Kong Electric 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.*



Remarks ¹: With respect to the possession of site area Portion Xa and Portion Xb since 7 March 2016 as confirmed by CWB RSS, real time noise monitoring station RTN2a was associated with Contract no. HY/2011/08 from 07 March 2016 onwards.

- 5.2.12. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.
- 5.2.13. Limit level exceedances were recorded at RTN2a-Electric Centre on 02, 05, 06, 08, 21, 23, 25 and 26 April 2016 during daytime in the reporting month. No construction works was undertaken under Contract HY/2011/08 on 02, 05, 06, 08, 21, 23 April 2016. On 25 April 2016, site formation with one excavator in operation and on 26 April 2016, manual rebar installation with coupler was conducted and no major noise concern was considered for the above works. Nevertheless, roof top water proofing works by non-CWB Contractor was undertaken immediately next to the noise monitoring station across the monitoring period across April 2016 and was considered as major noise contribution. As such, the exceedances were considered as non-Project related.

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

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

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

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

Station	Description
CMA5b	Pedestrian Plaza

- 5.3.5 One action level exceedance was recorded at monitoring station CMA5b on 14 April 2016 during 1hr TSP monitoring in the reporting month.
- 5.3.6 Only work activities within tunnel section and no construction activities at ground was undertaken on the monitoring date around Pedestrian Plaza under Contract HK/2009/01 and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.
- 5.3.7 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

- 5.3.8 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

- 5.3.9 No exceedance was recorded in the reporting month.
- 5.3.10 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

- 5.3.11 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

- 5.3.12 No exceedance was recorded in the reporting month.
- 5.3.13 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

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

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

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

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

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

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

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

Station	Description
CMA5b	Pedestrian Plaza

- 5.3.18 One action level exceedance was recorded at monitoring station CMA5b on 14 April 2016 during 1hr TSP monitoring in the reporting month.
- 5.3.19 After investigation, formwork erection and internal transfer of excavated material were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road and excavated soil maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.

- 5.3.20 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-09/364/2009/B

- 5.3.21 The commencement of construction works for Contract no. HY/2010/08 under FEP-09/364/2009/B was on July 2014. Air quality monitoring was commenced on 14 July 2011. The proposed division of air quality monitoring stations are summarized in **Table 5.15** below.

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

Station	Description
CMA3a	CWB PRE Site Office

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

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

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

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

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

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

5.4 Waste Monitoring Results

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

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

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

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	210.34	106340.92	TKO137, TM38
Inert C&D materials recycled, m ³	439.50	98492.03	N/A
Non-inert C&D materials disposed, m ³	145.28	4527.34	SENT Landfill
Non-inert C&D materials recycled, kg	8725.0	1143071	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 month. Details of the waste flow table are summarized in **Table 5.18**.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	8669	480289.412	TKO137 / TM 38
Inert C&D materials recycled, m ³	Nil	46520	N/A
Non-inert C&D materials disposed, m ³	144	2577.317	SENT Landfill
Non-inert C&D materials recycled, m ³	Nil	N/A	N/A
Chemical waste disposed, kg	Nil	17718	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	Nil	27889	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 month. Details of the waste flow table are summarized in **Table 5.19**.

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

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	747.94	140052.86	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	26.53	4019.55	SENT Landfill
Non-inert C&D materials recycled, ton	Nil	878.37	N/A
Chemical waste disposed, kg	Nil	4440	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 month. Details of the waste flow table are summarized in **Table 5.20**.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	Nil	619726.37 245453.3	Tuen Mun Area 38 TKO137 FB
Inert C&D materials recycled, m ³	Nil	358660.77	HY/2009/11 ex-PCWA TS4 /TS2 WDII Lun Ku Tan WENT
Non-inert C&D materials disposed, m ³	147.64	4248.84	SENT 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 month. Details of the waste flow table are summarized in **Table 5.21**.

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, ton	2090.61	649146.32	N/A
Inert C&D materials recycled, ton	Nil	82349.7	N/A
Non-inert C&D materials disposed, ton	221.68	4735.32	SENT Landfill
Non-inert C&D materials recycled, ton	Nil	548.4	N/A
Chemical waste disposed, kg	Nil	9.43	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), m³	Nil	20556	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), m³	Nil	30751	East of Sha Chau

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

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	12002	158673	TKO 137
Inert C&D materials recycled, m³	10885	58954	N/A
Non-inert C&D materials disposed, m³	160	1470	SENT
Non-inert C&D materials recycled, m³	Nil	Nil	N/A
Chemical waste disposed, kg	Nil	Nil	N/A
Marine sediment (Type 1) disposal, m³	Nil	3145	South of Cheung Chau / East of Sha Chau / South of The Brothers

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 month. Details of the waste flow table are summarized in **Table 5.23**.

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	12262 52230.7 8254.2 6176.7	524876.3 173495.8 59944.5 10585.4	TM 38 WENT SENT TKO area 137
Inert C&D materials recycled, m ³	Nil	Nil	N/A
Non-inert C&D materials disposed, m ³	146.6	1818.46	SENT
Non-inert C&D materials recycled, m ³	Nil	Nil	N/A
Chemical waste disposed, kg	Nil	979	N/A

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

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	Nil	367.68	CWPF & TKO137
Inert C&D materials recycled, m ³	Nil	Nil	N/A
Non-inert C&D materials disposed, m ³	40.9	691.58	SENT
Non-inert C&D materials recycled, ton	Nil	31.72	N/A
Chemical waste disposed, kg	Nil	3800	N/A

6.0 COMPLIANCE AUDIT

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

6.1 Noise Monitoring

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

- 6.1.1. No exceedance was recorded in the reporting month.

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

- 6.1.2. Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 29 March 2016 and 12 April 2016 in this reporting month.

- 6.1.3. Operation of multiple air compressor at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 29 March 2016 while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor as major noise contribution during monitoring on 12 April 2016. As such, the exceedances were considered as non-Project related.

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

- 6.1.4. Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 29 March 2016 and 12 April 2016 in this reporting month.

- 6.1.5. Operation of multiple air compressor at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 29 March 2016 while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor as major noise contribution during monitoring on 12 April 2016. As such, the exceedances were considered as non-Project related.

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

- 6.1.6. No exceedance was recorded in the reporting month.

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



- 6.1.7. Two limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 11 and 19 April 2016 in the reporting month.
- 6.1.8. Traffic noise was observed during monitoring on 11 and 19 April 2016 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.

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

- 6.1.9. No exceedance was recorded in the reporting month.

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

- 6.1.10. No exceedance was recorded in the reporting month.

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

- 6.1.11. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.
- 6.1.12. Limit level exceedances were recorded at RTN2a-Electric Centre on 02, 05, 06, 08, 21, 23, 25 and 26 April 2016 during daytime in the reporting month. On 02, 05 and 06 April 2016, only installation of pre-cast parapet, pipe laying works and concreting of blinding layer for pipe laying were undertaken by Contract HY/2009/19, no major noise concern of the works was considered. On 08 April 2016, excavation and backfilling works and erection of concrete surround was conducted and no major noise concern was considered for the works. On 23 April 2016, backfilling works and concreting for manhole cover were conducted and no major noise concern was considered for the works. On 21, 25 and 26 April 2016, concreting and excavation for drain pipe was conducted and no major noise concern was considered for the works. Nevertheless, roof top water proofing works by non-CWB Contractor was undertaken immediately next to the noise monitoring station across the monitoring period across April 2016 and was considered as major noise contribution. As such, the exceedances were considered as non-Project related.
- 6.1.13. Limit level exceedances were recorded at RTN3-Yue Lee Mo Fan Memorial School on 13, 18 and 25 April 2016 in the reporting month. On 13, 18 and 25 April 2016 during the monitoring period, no construction works was undertaken under Contract HY/2009/19. Nevertheless, based on relevant data from Hong Kong observatory, adverse weather condition with significant rainfall was recorded on 13, 18 and 25 April 2016 and thunderstorm warning signal was hoisted on 13 and 25 April 2016 and considered as the major noise contribution. As such, the exceedances were considered as non-project related.
- 6.1.14. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre on 08 and 09 April 2016 in the reporting month. On 8 April 2016, minor vertical face drilling works was conducted and on 09 April 2016 crosshead concreting was conducted under HY/2009/19. In view of the same construction sequence of vertical face drilling was extended to other time period with no noise emanation recorded and drilling works immediately next to the monitoring station by non-CWB Contractor for external panel installation at Causeway Bay Community Centre was conducted on the monitoring date, the exceedances were considered as non- Project related.

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

- 6.1.15. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.

- 6.1.16. Limit level exceedances were recorded at RTN2a-Electric Centre on 02, 05, 06, 08, 21, 23, 25 and 26 April 2016 during daytime in the reporting month. No construction works was undertaken under Contract HY/2011/08 on 02, 05, 06, 08, 21, 23 April 2016. On 25 April 2016, site formation with one excavator in operation and on 26 April 2016, manual rebar installation with coupler was conducted and no major noise concern was considered for the above works. Nevertheless, roof top water proofing works by non-CWB Contractor was undertaken immediately next to the noise monitoring station across the monitoring period across April 2016 and was considered as major noise contribution. As such, the exceedances were considered as non-Project related.

6.2 Air Quality Monitoring

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

- 6.2.1. No exceedance was recorded in the reporting month.

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 action level exceedance was recorded at monitoring station CMA5b on 14 April 2016 during 1hr TSP monitoring in the reporting month.

- 6.2.3. Only work activities within tunnel section and no construction activities at ground was undertaken on the monitoring date around Pedestrian Plaza under Contract HK/2009/01 and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient 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

- 6.2.4. No exceedance was recorded in the reporting month.

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

- 6.2.5. No exceedance was recorded in the reporting month.

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

- 6.2.6. No exceedance was recorded in the reporting month.

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

- 6.2.7. One action level exceedance was recorded at monitoring station CMA5b on 14 April 2016 during 1hr TSP monitoring in the reporting month.

- 6.2.8. After investigation, formwork erection and internal transfer of excavated material were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road and excavated soil maintained in

dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.

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

- 6.2.9. No exceedance was recorded in the reporting month.

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

- 6.2.10. No exceedance was recorded in the reporting month.

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

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

- 6.3.2. With respect to the complaint case referred by EPD 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).

- 6.3.3. 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. 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.

- 6.3.4. Based on the information advised by the CWB RSS on 05 May 2016, a case of construction noise permit contravention under Contract HY/2009/19 was identified by the EPD on 24 April 2016.

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

- 6.4.1 With respect to the identified case on drilling works without dust suppression measures, 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.



- 6.4.2 A Record of Inspection regarding the drilling works conducted on 05 April 2016 was subsequently issued by the EPD to the Contractor of HY/2009/19 on 21 April 2016.
- 6.4.3 With respect to the identified case on contravention on construction noise permit (Contract HY/2009/19), the construction noise permit no. GW-RS197-16 was cancelled by the Authority on 27 April 2016. Further information to be submitted by the Contractor of HY/2009/19 and CWB RSS team was requested by the Environmental Team for follow up.

7.0 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to Condition 3.4 of the EP-364/2009/C, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting month.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include structural works for tunnel construction, road works and drainage works, removal of bulkhead wall and landscape establishment works were performed in April 2016 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works, D-wall construction at Wan Chai East and culvert construction, piling and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, backfilling works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, ELS works and tunnel works at TS3; bridge construction, piling and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North area.
- 7.0.5. No significant air quality impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air quality and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

8.0 ENVIRONMENTAL SITE AUDIT

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/15, HY/2009/18, HY/2009/19, HK/2012/08, HK/2009/01, HK/2009/02, HY/2010/08 and HY/2011/08. No non-conformance was identified during the site audits. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.
- 8.0.2. Site inspections for Contract no. HY/2009/15 were carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.1**.

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

Item	Date	Observations	Action taken by Contractor	Completion date
160405_1	5 Apr 2016	Tarpaulin shall be provide between barge and seawall to avoid drop off during material transportation process (EX-PCWA North)	Tarpaulin sheet was provided to material transportation process	Completion as observed on 12 April 2016
160412_1	12 Apr 2016	Dust suppression measures shall be provided to breaking works. (EX-PCWA Site Entrance)	No further breaking works was observed	Completion as observed on 19 April 2016
160412_2	12 Apr 2016	The soil material left on the top of the seawall block shall be cleared to avoid runoff impact. (Ex-PCWA)	Soil left on the top of seawall block was cleared	Completion as observed on 26 April 2016

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

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

Item	Date	Observations	Action taken by Contractor	Completion date
160407_1	7 Apr 2016	Waste water generated from works process shall not directly wash into drainage system .For works could generate waste water, protection shall be treated properly before discharge (P1 Road)	No further waste water generation activities was observed	Completion as observed on 14 April 2016
160421_1	21 Apr 2016	Remove the electric distribution box away from retained tress onsite and provide protection for exposed roots	Remove the electric distribution box away from retained tress onsite and protection was provided to retained tree with exposed roots	Completion as observed on 25 April 2016

Item	Date	Observations	Action taken by Contractor	Completion date
160421_2	21 Apr 2016	Provide dust suppression e.g. dampening of surface during polishing works to avoid dust emission.	No further polishing works was observed	Completion as observed on 25 April 2016
160425_1	25 Apr 2016	Watering and covering shall be provided to stockpile and material process	Covering was provided to stockpile stored on-site	Completion as observed on 5 May 2016

8.0.4. Site inspections for Contract no. HY/2009/19 were carried out during this reporting period. No observation was found in the reporting month.

8.0.5. Site inspections for Contract no. HK/2009/01 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.4**.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Completion date
160421_01	21 Apr 2016	Wheel washing and vehicle control at Gate 1 shall be improved to a controlled manner to avoid muddy trail on public road.	Vehicle control was implemented properly and no muddy trail was observed on the public road.	Completion as observed on 27 April 2016

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
160428_01	28 Apr 2016	Drip trays shall be provided for all oil containers at Portion 3&4	Drip tray were provided for oil containers at Portion 3&4	Completion as observed on 5 May 2016
160428_02	28 Apr 2016	Leaked oil from plant shall be properly collected as soon as possible at Portion 5.	Leaked oil was cleaned at Portion 5.	Completion as observed on 5 May 2016

- 8.0.7. Site inspection for Contract no. HK/2012/08 were carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.6**.

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

Item	Date	Observations	Action taken by Contractor	Completion date
160329_01	29 Mar 2016	Oil container shall be properly placed to prevent it from falling down at Zone A2 (2)	Oil container was removed at Zone A2 (2).	Completion as observed on 5 April 2016
160412_01	12 Apr 2016	Drip tray shall be provided for oil container at Zone D	Oil container was removed at Zone D.	Completion as observed on 19 April 2016

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

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

Item	Date	Observations	Action taken by Contractor	Completion date
160330_1	30 Mar 2016	The temporary reclamation removal works shall be conducted according to the agreed method statement (removal of excavated material down to -4.5mpD prior to seawall block removal) and the deployment of impermeable barrier shall follow the method statement arrangement(TS3)	Impermeable barrier was provided to works area around excavated area	Completion as observed on 8 April 2016
160330_2	30 Mar 2016	The silt curtain shall be fully deployed to seabed(TS3)	The silt curtain was fully deployed to seabed	Completion as observed on 8 April 2016
160408_1	8 Apr 2016	Covering the stockpile stored on-site to avoid potential dust emission(Victoria Park)	Stockpile stored on-site was covered by impervious sheeting	Completion as observed on 13 April 2016
160408_2	8 Apr 2016	Clear the floating oil and scum around the intake location within the site area and check the integrity of the site screen installed (TS3)	Floating refuses and scum were cleared	Completion as observed on 13 April 2016
160408_3	8 Apr 2016	The silt curtain maintained around the derrick barge shall be maintained free of gap(TS3)	The gaps between silt curtain has been tighten	Completion as observed on 13 April 2016

Item	Date	Observations	Action taken by Contractor	Completion date
160413_1	13 Apr 2016	Tarpaulin covering shall be provided for stockpile stored on site to avoid dust and runoff impact (Victoria Park)	Stockpile stored on-site was covered by impervious sheeting	Completion as observed on 20 April 2016
160413_2	13 Apr 2016	Clear the oil within the silt screen system and leaked oil on land as chemical waste (TS3)	Oil within the silt screen and leaked oil on land was cleared	Completion as observed on 20 April 2016
160413_3	13 Apr 2016	Rectify the damaged boundary embankment protection to prevent contaminated surface overflow (TS3)	The damaged section of embankment was repaired	Completion as observed on 20 April 2016
160413_4	13 Apr 2016	Impermeable barrier shall be deployed according to the method statement to enclose the work area carrying out excavation from -4.35mpD to -7mpD and ensure no gap between the silt curtain deployed and all silt curtain and silt screen shall be fully deployed to seabed level (TS3)	Impermeable barrier was provided to the concerned works area and silt curtain was tighten and deploy to the seabed	Completion as observed on 20 April 2016
160413_5	13 Apr 2016	Review the adequacy of treatment capacity of the water treatment plant and suitable measure shall be provided to avoid potential water quality impact (TS3)	Water treatment plant was operated with adequate capacity and silt curtain was deploy around the discharge point	Completion as observed on 20 April 2016
160420_1	20 Apr 2016	Muddy seepage at the impermeable barrier was observed. The impermeable barrier deploy shall be tightened and to avoid gap at the end and silt curtain shall be provided during seawall removal (TS3)	Impermeable barrier was tighten and no further muddy seepage was observed	Completion as observed on 27 April 2016
160420_2	20 Apr 2016	Boundary bunding protection shall be provided along the entire section of the northern side of seawall and clear the mud deposit along the seawall to avoid runoff impact (TS3 North)	Boundary bunding was provided along the northern side of seawall	Completion as observed on 27 April 2016

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

9.0 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. Five environmental complaints were received in the reporting month.

9.0.2. First public complaint regarding direct discharge of muddy effluent referred by EPD was received by ET on 31 March 2016 (Case Ref.: H08/RS/00006732-16). The complainant reported that muddy water was observed discharged from the 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.

ET confirmed with the Resident Site Staff that pipe Laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016. The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole.

Based on the site records confirmed by RSS, pipe laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016. The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole. In addition, no site discharge point was connected to the aforesaid U-channel and the concerned manhole. In view of the environmental concern, the following remedial and precautionary actions were taken by the Contractor of HY/2009/19 on 29 March 2016.

- i) Plugging the inlet point of the concerned manhole (connecting to the abandoned U-channel) with concrete;
- ii) Plugging the outlet of the concerned manhole (connecting to the observed drain hole) with concrete;
- iii) Filling the concerned manhole with rubbles;
- iv) Shifting the unused wastewater treatment plant around the concerned location to other site location for use.

Follow-up inspection was conducted by the Environmental Team on 06 April 2016. No further contaminated runoff discharge was observed from the concerned drain hole and precautionary measures including provision of concrete bunding was implemented along the site boundary at the concerned location to avoid potential surface overflow. The pipe laying works and the excavation works was found at distant location away from the concerned drain hole with no surface drain connection and no particular effluent was generated from the work. As such, no information indicate the discharge was related to the above construction activities. However, it was noted that another section of surface drainage channel within the construction site (perpendicular in direction to the initial identified abandoned U-channel) was

also in connection to concerned manhole and minor residue mud deposition was observed within the surface drainage channel. Despite the above additional surface drainage channel identified, the outlet point of concerned final manhole (in connection with the observed drain hole) was observed plugged with concrete and filled with rubbles as rectification measure to avoid any further contaminated runoff discharge via the observed drain hole.

Nevertheless, the Contractor of HY/2009/19 was reminded to conduct regular cleaning works for site surface drainage channel to avoid accumulation of silt and soil and avoid potential overflow by directing the surface runoff within the surface drainage channel to proper collection point for necessary treatment prior to discharge. The Contractor of HY/2009/19 was also reminded to check and review other surface drainage channel within the construction site to avoid potential runoff related impact via surface drainage channel to the nearby waters.

In addition, it was noticed that water was discharged from a piping extending from City Garden and the discharged water would result in seepage across the site hoarding into the abandoned U-channel. The Contractor of HY/2009/19 was suggested to liaise with the City Garden Management Office for proper connection of the observed pipping with discharge to prevent further seepage water into the construction site.

- 9.0.3. Second 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).

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.

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.

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.

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.

- 9.0.4. Third public complaint regarding landscape aspect was referred by RSS was received by ET on 11 April 2016 (Case Ref.:2-2036525055). The complainant reported that a tree (6 meters in height and 1.5 meters in diameter) was found toppled at 111 Victoria Park Road, near Lamp post 38632 and blocking the Pedestrian pathway on 27 March 2016.

ET confirmed with the Resident Site Staff that the concerned tree was identified as T710 and no construction activity in the vicinity of tree T710 on 27 March 2016 and no construction works are required in or near its vicinity.

Based on the site records confirmed by RSS, the concerned tree was identified as the retained tree T710 maintained under the Contract of HY/2010/08 and the concerned tree T710 was located outside the assessment area in the relevant Project EIA Report. No construction works are required in the vicinity of concerned tree T710 and no construction activity was conducted in the vicinity of tree T710 on 27 March 2016. Nevertheless, based on RSS information, recent tree monitoring report indicates an existing cavity at trunk and the concerned tree T710 has been recommended to be felled in the tree risk assessment Form 2.

With respect to the observed incident of the toppling of the concerned tree T710, the 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.

- 9.0.5. Forth public complaint regarding muddy dispersion referred by RSS was received by ET on 13 April 2016. The complainant reported that muddy water was observed to disperse from Contract HK/2009/02 site area to Victoria Harbour occasionally as there was no silt curtain installed under the buoyancy floats. The location concerned was the East of Star Ferry Piers (Contract No. HK/2009/02).

ET confirmed with the Resident Site Staff that no marine construction activities or land construction activities under Contract HK/2009/02 at the concerned location on 12 April 2016. Surface runoff control measures including provision of concrete bund at the concerned location was implemented by Contract HK/2009/02.

No soil & silt deposition along the seawall at the concerned location on 12 April 2016.

No discharge point located in the vicinity of the concerned location under Contract HK/2009/02.

Silt curtain with buoyancy floats acting as anchor points was installed at Monitoring Station RW21-P789 for Water intakes.

Based on the site records confirmed by RSS, no marine construction activities or land construction activities was carried out under Contract HK/2009/02 at the concerned location on 12 April 2016 and no soil and silt deposition was found along the seawall at the concerned location and precautionary measures for site runoff control including provision of concrete bund along boundary of site area near the waterfront around the concerned location was implemented by the Contractor HK/2009/02. In addition, no discharge point under Contract

HK/2009/02 was located in the vicinity of the concerned location. Based on information confirmed by RSS, the buoyancy floats deployed at the concerned location are acting as the anchor points for the silt curtain deployed around the WQM Station RW21-P789 for the WSD and Cooling Water Intakes group.

Follow-up inspection was conducted on 14 April 2016, no surface runoff from the construction site nor discharge of contaminated effluent was observed around the concerned location and precautionary measures including the provision of concrete bund at the concerned location was observed maintained by the Contractor of HK/2009/02 and the silt curtain deployed around the WQM station RW21-P789 was generally in order.

In view of the public concern on the water quality, the Contractor of HK/2009/02 was reminded to maintain effective surface runoff protection and provide proper collection point of construction effluent around the concerned location to avoid potential surface runoff related impact.

- 9.0.6. Fifth public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning.

ET confirmed with the Resident Site Staff that internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation.

Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.

According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.

Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater

treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.

Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.

- 9.0.7. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.8. 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
April 2016	5
September 2010 – March 2016	59
Total	64

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10 CONCLUSION

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

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	- Remedial works at Mined Tunnel - Remaining works inside tunnel at TS4 and TPCWAE - Removal of ELS and backfilling works at TPCWAW - Reinstatement of Shaft B between TPCWAW and TPCWAE - Saw cutting of diaphragm wall at TPCWAW	- 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	- Drainage works - Road works - Landscaping works - Modification and Construction of Sign Gantries / Traffic Signs - Maintenance works	- Dust control during dust generating activities - Provide protection works to ensure no runoff out of site area or direct discharge into public drainage system.

HY/2009/19	- Pier construction for IEC - Construction of EVB - Column modification at F1 to F8 - Watson Road laying of new water pipe - Oil Street drainage works - Excavation / Construction of retaining wall/Piling works/Approach Ramp - Bridge segment erections - Hing Fat Street modification works - EVA bulkhead removal - Hing Fat Street Slip Road Bridge E parapet construction	- 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.
HK/2009/01	- Stage 3b backfilling works - Stage 4 construction tunnel structure - Reinstatement of outfall - Reinstatement of triangular planter at Fenwick Pier Street	- 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
HK/2009/02	- Construction of pre-cast concrete cover - Tunnel OHVD construction - Tunnel wall and top slab construction - Waterproofing layer at side wall slap application - Road side barrier construction - Removal of remaining temporary sheet pile seawall - Removal of blockwork seawall near the interface between Portion 2 and Portion 5 - Diaphragm wall construction - Excavation work - Strut installation	- 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.

HK/2012/08	• Grouting • Construction of MVB • Pre-bored H-pile construction • Construction of concrete plug • Excavation and lateral support installation for CWB tunnel	• 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	• Tree protection works next to existing BGO, • Drainage improvement works, • Excavation and Lateral Support for U-structure, • Pipe piling & grouting works, • Utility diversion works, • Retaining wall works • ELS works, • D-wall drill cutting works • Construction works for subway extension	• 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	• Construction of Ventilation Buildings, inclusive of Administrative Building, East Ventilation Shaft, West Ventilation Building • Construction of Tunnel Thermal Barrier • Installation of Electricals and Mechanicals • Installation of Tunnel Features	• 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.

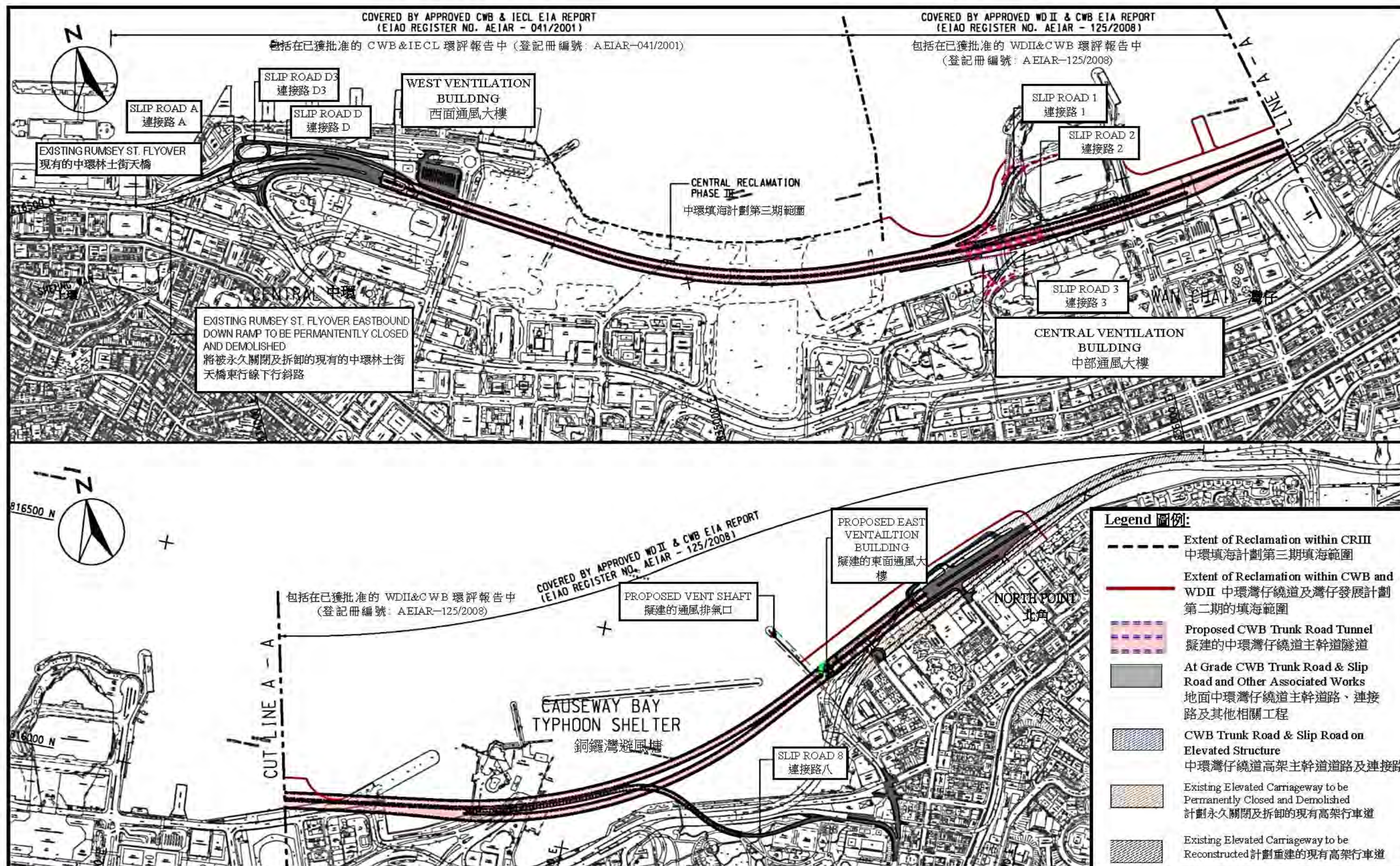
10.0.4. The construction works of Contract no. HY/2009/17 - Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.

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/D
環境許可證編號: EP-364/2009/D

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

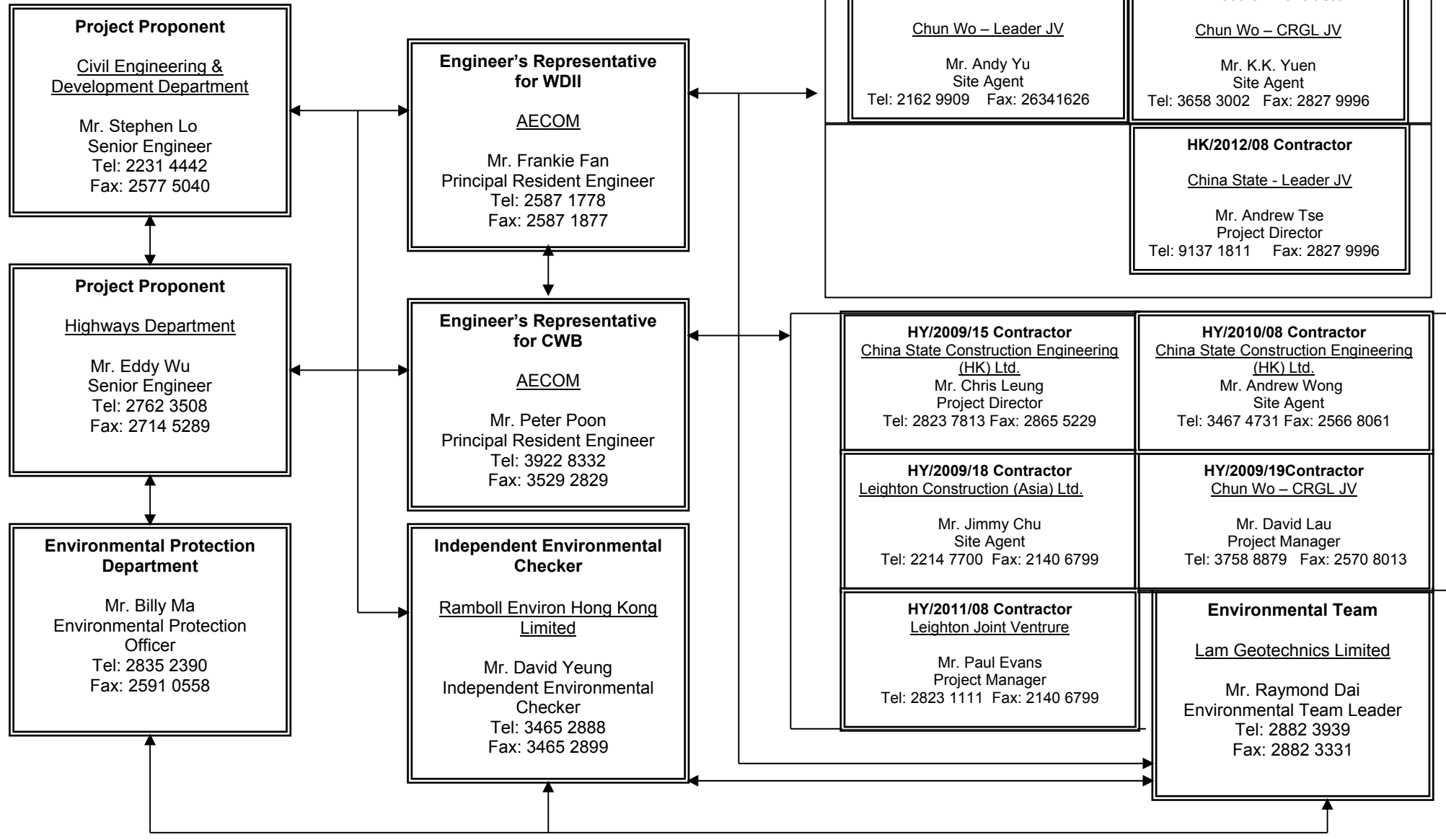


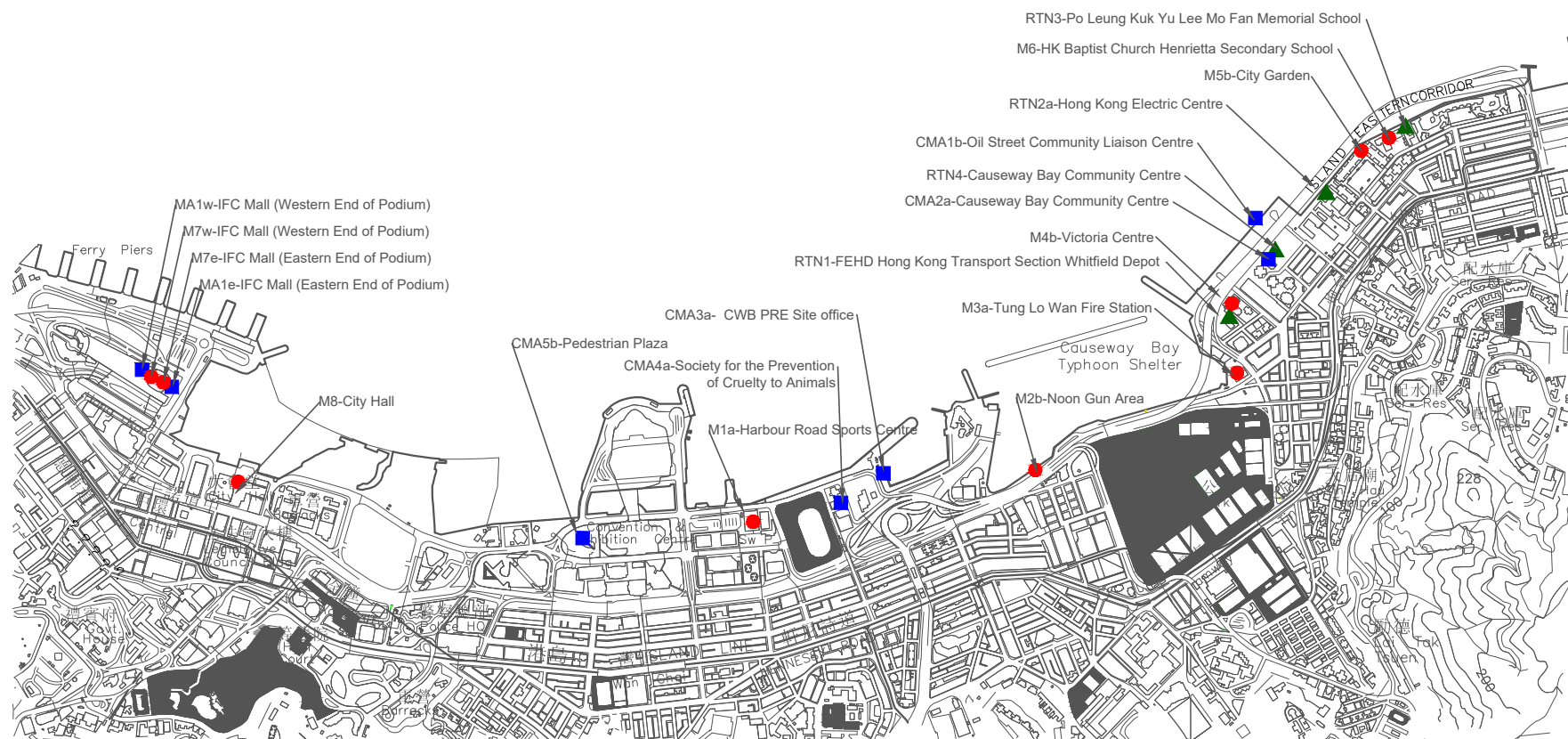


Figure 4.1

Locations of Monitoring Stations

Legend

- Noise Monitoring Station
- Air Quality 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. - 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	Good Site Practice: - Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. - Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. - Mobile plant, if any, shall be sited as far away from NSRs as possible. - Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. - Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. - Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
S4.8.1 – S4.8.11	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: - Slip road 8 tunnel - Construction of diaphragm wall and substructures of the tunnel approach ramp - Excavation - Construction of slabs - Backfill	Work Sites / During Construction	Contractor		√			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	
	- Demolition and construction of substructures for the IEC - Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: - At-grade road construction - Substructure for IECL connection							
Operation Phase								
S4.8.12 – S4.8.23	For Existing NSRs - about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC - about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC - about 135m length of 5.5m high cantilevered noise barrier with 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	
	For Future/Planned NSRs - 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.	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites. Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple	HyD Project Proponent for the re-provisioned Tin Hau Temple	√ √	√ #			

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

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

Table 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	<i>Floating Refuse</i> During the construction phase, the project proponent’s contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table D9.3.	Work site / During the construction period	Contractor		√			
S6.6.1	<i>Good Site Practices</i> Recommendations for good site practices during the construction activities include: • nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; • training of site personnel in proper waste management and chemical waste handling procedures; • provision of sufficient waste disposal points and regular collection for disposal; • appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; • regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and • a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354)

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

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	<i>General Refuse</i> General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	<i>Chemical Wastes</i> After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.6.6	<i>Construction and Demolition Material</i> C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.7	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	<i>Bentonite Slurry</i> The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 “Construction Site Drainage” and listed as follows: • If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. • If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. • If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

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

Contract No. HK/2015/01

Wanchai Development Phase III and Central Wanchai Bypass

Sampling, Field Measurement and Testing Work (Stage 3)

Monthly EM&A Report

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



CERTIFICATE OF CALIBRATION

Certificate No.: 15CA1203 04-01

Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone
Manufacturer:	B & K	B & K
Type/Model No.:	2236	4188
Serial/Equipment No.:	2100736	2288941
Adaptors used:	-	-

Item submitted by

Customer Name: Lam Geotechnics Limited
Address of Customer: -
Request No.: -
Date of receipt: 03-Dec-2015

Date of test: 04-Dec-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	19-Jun-2016	CIGISMEC
Signal generator	DS 360	33873	16-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 50 ± 10 %
Air pressure: 1010 ± 10 hPa

Test specifications

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

Date: 05-Dec-2015

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.: 15CA1203 04-01

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	2.1
	C	Pass	1.0	
	Lin	Pass	2.0	
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	
		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	
		Pass	0.3	
		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.

Calibrated by:

Date:

Fung Chi Yip
04-Dec-2015

- End -

Checked by:

Date:

Lam Tze Wai
05-Dec-2015

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



CERTIFICATE OF CALIBRATION

Certificate No.: 15CA0528 04-03

Page: 1 of 2

Item tested

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

Item submitted by

Customer: Lam Geotechnics Ltd.
Address of Customer: -
Request No.: -
Date of receipt: 28-May-2015

Date of test: 30-May-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 60 ± 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: 01-Jun-2015

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.: 15CA0528 04-03

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	94.06	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 = 0.002 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 = 966.3 Hz

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz TND = 0.5 %

Estimated expanded uncertainty 0.7 %

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

- End -

Calibrated by:

Date:

Fung Chi Yip

30-May-2015

Checked by:

Date:

Lam Tze Wai

01-Jun-2015

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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jun 30, 2015 Rootmeter S/N 0438320 Ta (K) - 296
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3930	3.2	2.00
2	NA	NA	1.00	0.9800	6.4	4.00
3	NA	NA	1.00	0.8790	7.9	5.00
4	NA	NA	1.00	0.8350	8.7	5.50
5	NA	NA	1.00	0.6900	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9883	0.7095	1.4090		0.9957	0.7148	0.8889
0.9841	1.0042	1.9926		0.9915	1.0117	1.2570
0.9820	1.1172	2.2278		0.9894	1.1256	1.4054
0.9810	1.1749	2.3365		0.9884	1.1837	1.4740
0.9757	1.4141	2.8179		0.9830	1.4247	1.7777
Qstd slope (m) = 2.00072				Qa slope (m) = 1.25282		
intercept (b) = -0.01209				intercept (b) = -0.00763		
coefficient (r) = 0.99995				coefficient (r) = 0.99995		
y axis = SQRT[H2O(Pa/760) (298/Ta)]				y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA1b Calibration Date : 21-Mar-16
 Equipment no. : HVS001 Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	290	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m _c	2.00072	Intercept, b _c	-0.01209
Last Calibration Date	30-Jun-15	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.2	6.2	12.4	1.7917	58	58.8439
2	4.8	4.8	9.6	1.5772	52	52.7566
3	3.6	3.6	7.2	1.3667	44	44.6402
4	2.4	2.4	4.8	1.1170	36	36.5238
5	1.6	1.6	3.2	0.9132	24	24.3492

By Linear Regression of Y on X

Slope, m = 38.3937 Intercept, b = -8.5301
 Correlation Coefficient* = 0.9915
 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 : Kit Au Checked by : Pauline Wong
 Date : 21-Mar-16 Date : 21-Mar-16



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a Calibration Date : 21-Mar-16
 Equipment no. : HVS002 Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	290	Kelvin	Pressure, P_a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.00072	Intercept, b_c	-0.01209
Last Calibration Date	30-Jun-15	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.8	6.8	13.6	1.8761	64	64.9312
2	5.4	5.4	10.8	1.6725	55	55.8002
3	4.1	4.1	8.2	1.4581	48	48.6984
4	2.8	2.8	5.6	1.2060	38	38.5529
5	1.8	1.8	3.6	0.9682	30	30.4365

By Linear Regression of Y on X

Slope, m = 37.7519 Intercept, b = -6.5353
 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 EL449 to HVS002 with respect to the update in quality management system.

Calibrated by : Kit Au Checked by : Pualine Wong
 Date : 21-Mar-16 Date : 21-Mar-16



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a
 Equipment no. : HVS012
 Calibration Date : 21-Mar-16
 Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	290	Kelvin	Pressure, P_a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.00072	Intercept, b_c	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q_{std}	Continuous Flow	IC
	H (inches of water)			($m^3 / min.$)	Recorder, W	($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	7.0	7.0	14.0	1.9034	54	54.7857
2	5.6	5.6	11.2	1.7031	49	49.7129
3	4.2	4.2	8.4	1.4757	42	42.6111
4	3.1	3.1	6.2	1.2687	38	38.5529
5	1.8	1.8	3.6	0.9682	30	30.4365

By Linear Regression of Y on X

Slope, m = 25.9695
 Intercept, b = 5.2051
 Correlation Coefficient* = 0.9985
 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 : Kit Au
 Date : 21-Mar-16
 Checked by : Pauline Wong
 Date : 21-Mar-16



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA4a
Equipment no. : HVS004

Calibration Date : 21-Mar-16
Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	290	Kelvin	Pressure, P_a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.00072	Intercept, b_c	-0.01209
Last Calibration Date	30-Jun-15	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	7.9	7.9	15.8	2.0217	52	52.7566
2	6.8	6.8	13.6	1.8761	48	48.6984
3	5.4	5.4	10.8	1.6725	42	42.6111
4	3.8	3.8	7.6	1.4040	34	34.4947
5	2.1	2.1	4.2	1.0453	28	28.4074

By Linear Regression of Y on X

Slope, m = 25.5259 Intercept, b = 0.4522
Correlation Coefficient* = 0.9928
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 : Kit Au
Date : 21-Mar-16

Checked by : Pauline Wong
Date : 21-Mar-16



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA5b
Equipment no. : HVS010

Calibration Date : 21-Mar-16
Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition				
Temperature, T_a	290	Kelvin	Pressure, P_a	1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.00072	Intercept, b_c	-0.01209
Last Calibration Date	30-Jun-15	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q_{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.2	6.2	12.4	1.7917	64	64.9312
2	4.9	4.9	9.8	1.5935	58	58.8439
3	3.4	3.4	6.8	1.3284	54	54.7857
4	2.1	2.1	4.2	1.0453	46	46.6693
5	1.4	1.4	2.8	0.8546	40	40.5820

By Linear Regression of Y on X

Slope, m = 25.0375 Intercept, b = 20.0458
Correlation Coefficient* = 0.9942
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 : Kit Au
Date : 21-Mar-16

Checked by : Pauline Wong
Date : 21-Mar-16



Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1e
Equipment no. : HVS007

Calibration Date : 21-Mar-16
Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	290	Kelvin	Pressure, P_a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.00072	Intercept, b_c	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.2	6.2	12.4	1.7917	59	59.8584
2	5.3	5.3	10.6	1.6570	50	50.7275
3	4.0	4.0	8.0	1.4403	44	44.6402
4	2.5	2.5	5.0	1.1399	30	30.4365
5	1.4	1.4	2.8	0.8546	20	20.2910

By Linear Regression of Y on X

Slope, m = 41.2980 Intercept, b = -15.6646
Correlation Coefficient* = 0.9957
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 : Kit Au
Date : 21-Mar-16

Checked by : Pauline Wong
Date : 21-Mar-16



Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1w
Equipment no. : HVS008

Calibration Date : 21-Mar-16
Calibration Due Date : 21-May-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	290	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m _c	2.00072	Intercept, b _c	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.5	6.5	13.0	1.8344	58	58.8439
2	5.2	5.2	10.4	1.6414	51	51.7420
3	4.1	4.1	8.2	1.4581	43	43.6256
4	2.5	2.5	5.0	1.1399	32	32.4656
5	1.5	1.5	3.0	0.8844	25	25.3637

By Linear Regression of Y on X

Slope, m = 35.7112 Intercept, b = -7.2889
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 EL080 to HVS008 with respect to the update in quality management system.

Calibrated by : Kit Au
Date : 21-Mar-16

Checked by : Pauline Wong
Date : 21-Mar-16



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Environmental Monitoring Schedule
April 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	1-Apr	2-Apr
		24hr TSP Noise (daytime) (M1a,M2b,M4a)	1hr TSP Noise (daytime) (M3a,M5b,M6,M7e, M7w,M8)	24hr TSP	24hr TSP (CMA3a) 1hr TSP	
3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr
		Noise (daytime) (M2b)	Noise (daytime) (M1a,M3a,M4b,M5b M6)	24hr TSP	1hr TSP Noise (daytime) (M7e,M7w,M8)	
10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
	Noise (daytime) (M5b,M6)	Noise (daytime) (M1a,M2b,M3a,M4b M7e,M7w,M8)	24hr TSP	24hr TSP (CMA5b) 24hr TSP (CMA1b) 1hr TSP		
17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
		24hr TSP Noise (daytime) (M1a,M2b, M3a, M4b, M5b, M6)	1hr TSP Noise (daytime) (M7e, M7w, M8)			
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	
	24hr TSP Noise (daytime) (M1a, M2b)	1hr TSP Noise (daytime) (M3a,M4b,M5b,M7e, M7w, M8)			Noise (daytime) (M6)	

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
May 2016

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



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/03/16	15:00	Fine	82.9	86.0	76.5	72	83	75
06/04/16	10:45	Fine	76.5	77.5	74.0	72	74	75
12/04/16	10:32	Cloudy	80.2	80.5	73.5	72	79	75
19/04/16	08:30	Fine	76.5	77.5	75.0	72	74	75
25/04/16	08:55	Fine	76.5	78.3	74.0	72	74	75

Location: M2b - Noon-day gun area

Date	Time	Measurement Noise Level				Baseline Level	Construction Noise Level	Limit Level
		Weather	Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/03/16	10:22	Fine	68.1	69.5	66.0	68	58	75
05/04/16	15:58	Fine	68.7	70.0	66.0	68	62	75
12/04/16	13:00	Cloudy	66.8	68.0	65.0	68	67	75
19/04/16	09:15	Fine	69.0	70.0	67.5	68	63	75
25/04/16	09:49	Fine	68.4	70.0	65.5	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)					
30/03/16	14:43	Fine	65.8	67.0	63.5	69	66	75
06/04/16	13:15	Fine	68.5	69.0	67.0	69	69	75
12/04/16	13:42	Cloudy	64.7	66.0	62.5	69	65	75
19/04/16	13:00	Fine	67.5	68.0	66.0	69	68	75
26/04/16	14:15	Fine	65.2	66.5	63.0	69	65	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/03/16	11:00	Fine	69.2	72.5	64.5	67	65	75
06/04/16	13:52	Fine	65.2	67.0	62.5	67	65	75
12/04/16	14:23	Cloudy	65.6	66.0	62.0	67	66	75
19/04/16	13:38	Fine	68.0	69.5	65.0	67	60	75
26/04/16	14:53	Fine	65.7	66.5	63.5	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)								
30/03/16	15:30	Fine	66.5	68.0	64.5	68	67	75
06/04/16	14:50	Fine	68.0	69.0	65.5	68	68	75
11/04/16	11:30	Fine	69.7	70.0	68.5	68	65	75
19/04/16	14:22	Fine	70.8	72.0	68.5	68	68	75
26/04/16	15:43	Fine	70.5	71.0	69.5	68	67	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)					
30/03/16	16:08	Fine	71.6	72.5	69.5	71	64	70
06/04/16	15:30	Fine	71.6	72.5	69.5	71	64	70
11/04/16	10:17	Fine	72.3	73.0	70.5	71	67	65
19/04/16	15:00	Fine	71.9	73.0	68.0	71	66	65
29/04/16	14:30	Fine	68.8	70.0	66.5	71	69	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)					
30/03/16	09:30	Fine	68.5	69.5	67.0	67	64	N/A
08/04/16	08:30	Fine	67.1	68.0	63.5	67	55	N/A
12/04/16	08:25	Cloudy	68.2	69.0	67.0	67	63	N/A
20/04/16	09:00	Fine	66.3	68.0	63.0	67	66	N/A
26/04/16	08:30	Fine	67.5	68.5	65.2	67	59	N/A

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

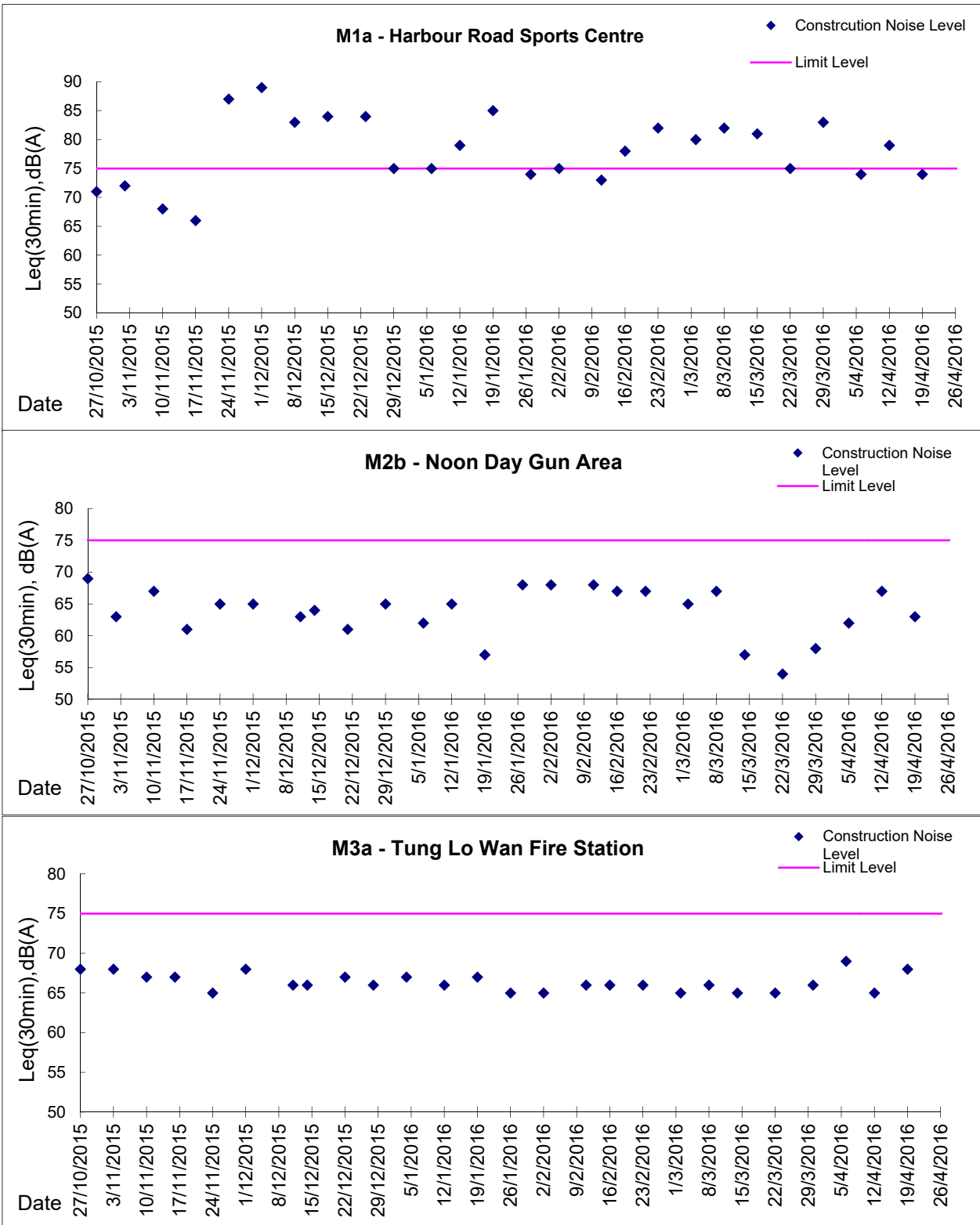
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/03/16	10:32	Fine	66.5	67.0	63.5	69	67	75
08/04/16	09:05	Fine	63.9	65.5	61.0	69	64	75
12/04/16	09:00	Cloudy	67.5	68.5	65.5	69	68	75
20/04/16	09:45	Fine	66.1	68.0	63.0	69	66	75
26/04/16	09:35	Fine	66.0	67.5	63.0	69	66	75

Location: M8 - City Hall

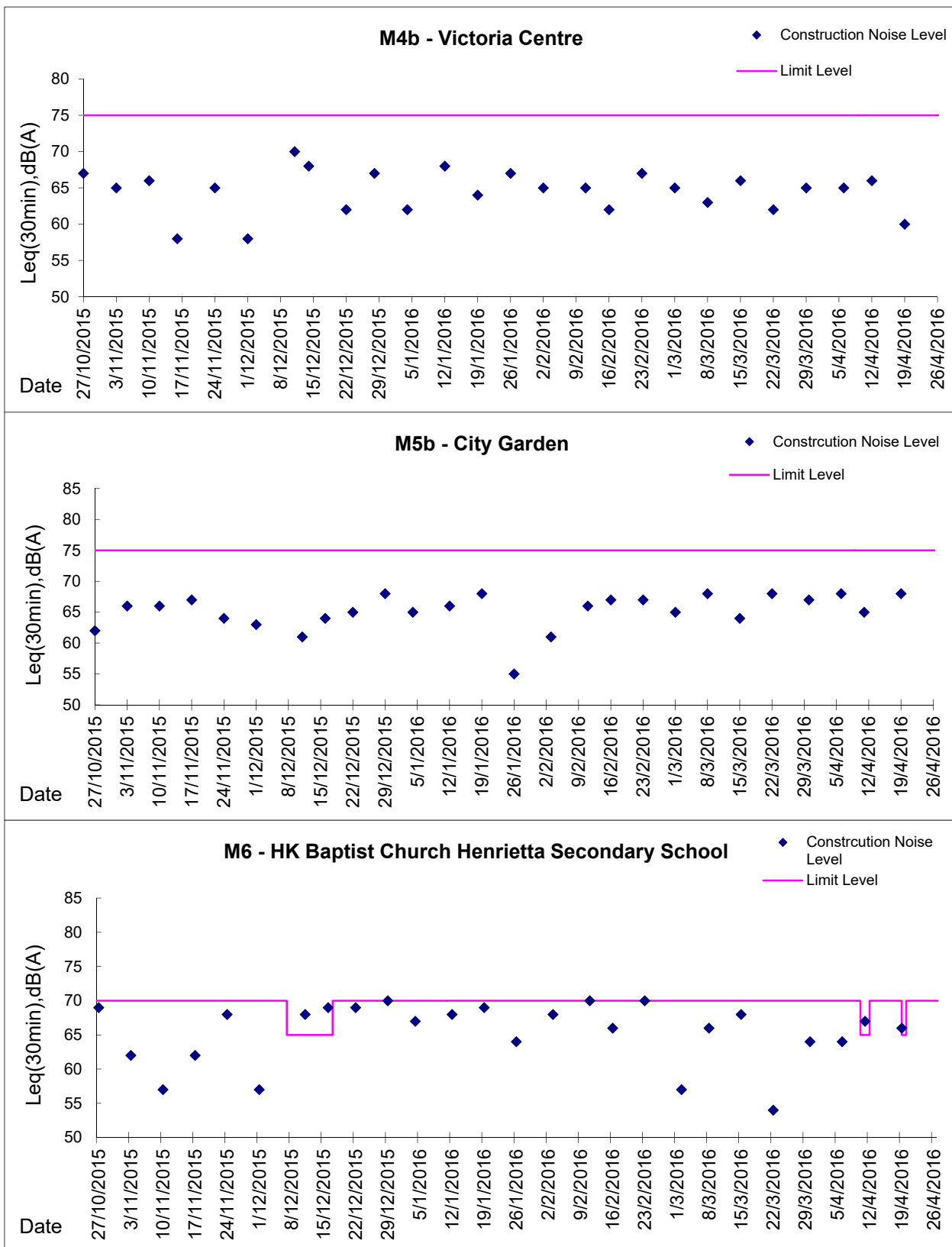
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/03/16	11:20	Fine	64.0	65.0	62.0	64	64	70
08/04/16	09:41	Fine	61.2	63.0	58.5	64	61	70
12/04/16	09:40	Cloudy	60.2	62.0	56.5	64	60	70
20/04/16	11:03	Fine	62.6	66.5	57.0	64	63	70
26/04/16	10:45	Fine	62.3	64.0	59.5	64	62	70

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

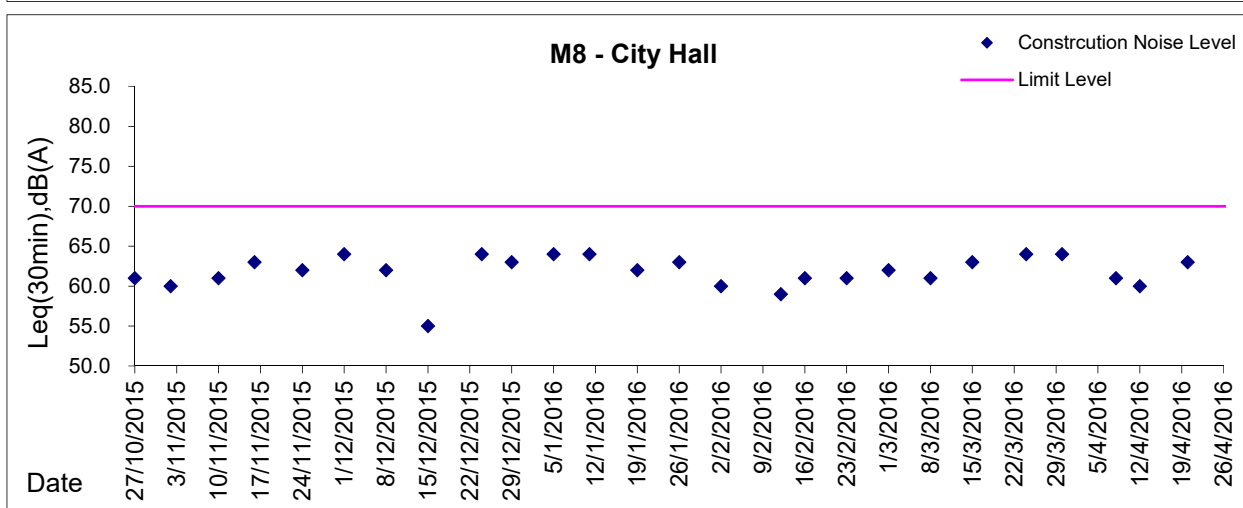
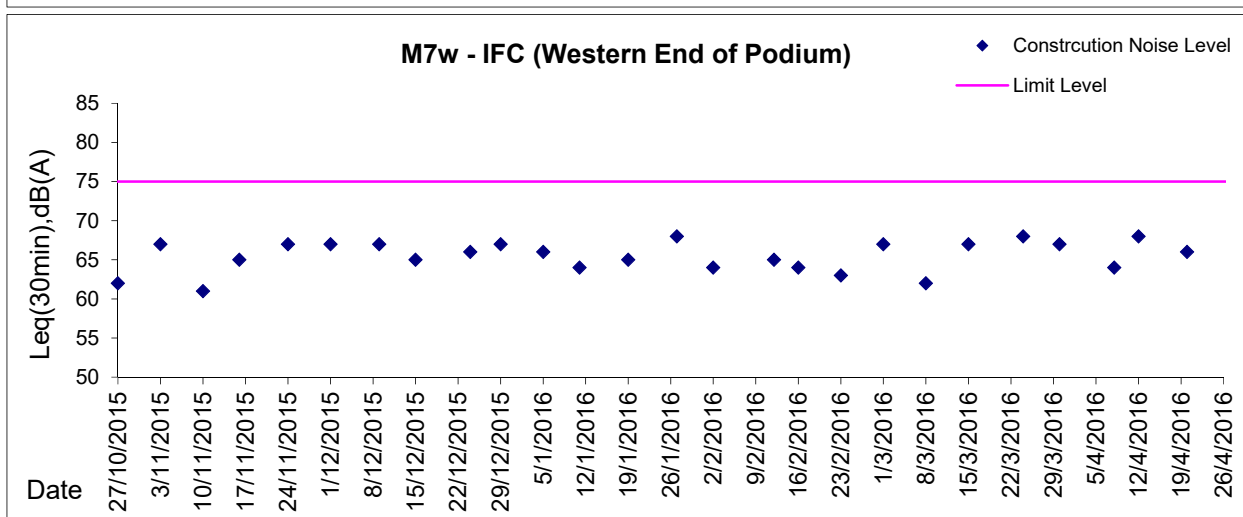
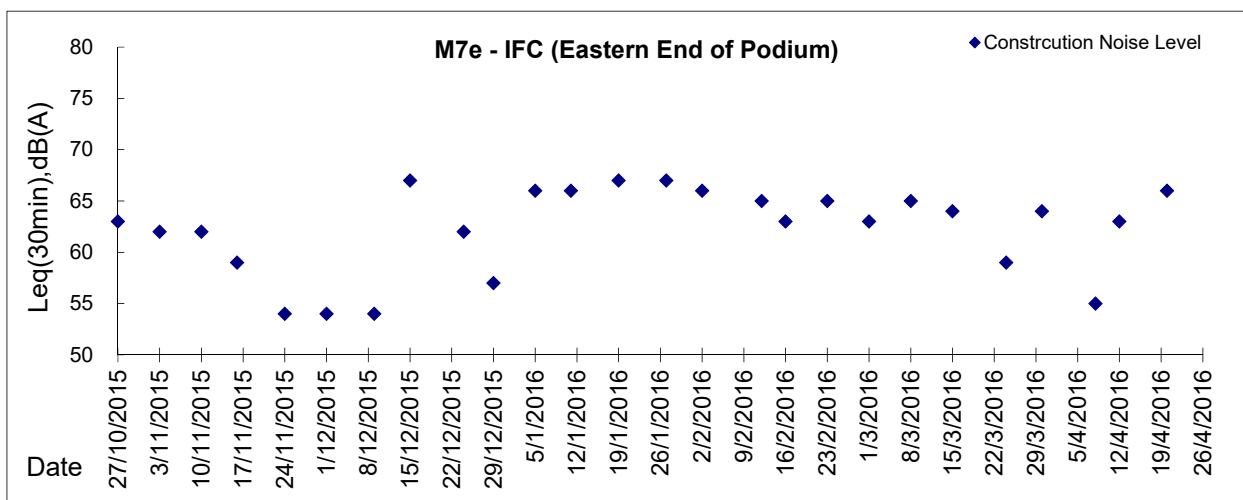


Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)



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 - Oil Street Site Office

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		
29-Mar-16	8:00	Cloudy	014878	2.7991	3.1109	7899.00	7923.00	24.00	1.24	1.23	1.24	1779	175.3
1-Apr-16	8:00	Cloudy	014883	2.8365	3.0864	7926.05	7950.05	24.00	1.18	1.18	1.18	1698	147.2
7-Apr-16	8:00	Cloudy	015087	2.7405	2.8648	7953.05	7977.05	24.00	1.17	1.17	1.17	1690	73.6
14-Apr-16	14:02	Cloudy	015249	2.8131	2.8797	7989.92	8013.92	24.00	1.17	1.18	1.18	1693	39.3
19-Apr-16	8:00	Cloudy	015246	2.8066	2.9614	8013.92	8037.92	24.00	1.18	1.18	1.18	1698	91.2
25-Apr-16	8:00	Rainy	015299	2.8251	2.8849	8040.92	8064.92	24.00	1.17	1.17	1.17	1684	35.5

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 13 April 2016 to 14 April 2016.

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		
30-Mar-16	9:50	Cloudy	014869	2.8332	2.8448	7923.00	7924.00	1.00	1.18	1.18	1.18	71	163.5
30-Mar-16	11:00	Cloudy	014860	2.8311	2.8442	7924.00	7925.00	1.00	1.18	1.18	1.18	71	184.6
30-Mar-16	13:00	Cloudy	015006	2.8027	2.8212	7925.00	7926.00	1.00	1.18	1.18	1.18	71	260.7
2-Apr-16	8:50	Cloudy	014963	2.7818	2.7988	7950.05	7951.05	1.00	1.18	1.18	1.18	71	240.1
2-Apr-16	10:15	Cloudy	014960	2.7719	2.7844	7951.05	7952.05	1.00	1.18	1.18	1.18	71	176.5
2-Apr-16	13:00	Cloudy	015184	2.8301	2.8412	7952.05	7953.05	1.00	1.18	1.18	1.18	71	156.8
8-Apr-16	9:10	Cloudy	015179	2.8231	2.8329	7977.05	7978.05	1.00	1.17	1.17	1.17	70	139.3
8-Apr-16	10:55	Cloudy	015170	2.8268	2.8334	7978.05	7979.05	1.00	1.17	1.17	1.17	70	93.8
8-Apr-16	13:00	Cloudy	015173	2.8403	2.8501	7979.05	7980.05	1.00	1.17	1.17	1.17	70	139.3
14-Apr-16	9:45	Cloudy	015256	2.8066	2.8113	7986.92	7987.92	1.00	1.17	1.17	1.17	70	66.7
14-Apr-16	11:00	Cloudy	015253	2.8333	2.8380	7987.92	7988.92	1.00	1.17	1.17	1.17	70	66.7
14-Apr-16	13:00	Cloudy	015250	2.8200	2.8279	7988.92	7989.92	1.00	1.17	1.17	1.17	70	112.2
20-Apr-16	9:05	Cloudy	015322	2.8410	2.8512	8037.92	8038.92	1.00	1.18	1.18	1.18	71	144.3
20-Apr-16	10:55	Cloudy	015319	2.8439	2.8540	8038.92	8039.92	1.00	1.18	1.18	1.18	71	142.9
20-Apr-16	14:00	Cloudy	015316	2.8335	2.8407	8039.92	8040.92	1.00	1.18	1.18	1.18	71	101.9
26-Apr-16	9:15	Cloudy	015424	2.8473	2.8496	8064.92	8065.92	1.00	1.17	1.17	1.17	70	32.8
26-Apr-16	11:00	Cloudy	015422	2.8543	2.8563	8065.92	8066.92	1.00	1.17	1.17	1.17	70	28.5
26-Apr-16	15:00	Cloudy	015418	2.8502	2.8550	8066.92	8067.92	1.00	1.17	1.17	1.17	70	68.5



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		
29-Mar-16	8:00	Cloudy	014879	2.8246	3.0128	17548.45	17572.45	24.00	1.28	1.28	1.28	1844	102.0
1-Apr-16	8:00	Cloudy	015038	2.7276	2.9065	17575.46	17599.46	24.00	1.22	1.22	1.22	1761	101.6
7-Apr-16	8:00	Cloudy	015133	2.8020	3.0042	17602.46	17626.46	24.00	1.14	1.14	1.14	1642	123.1
13-Apr-16	8:00	Rainy	015162	2.8218	2.8954	17629.46	17653.46	24.00	1.19	1.19	1.19	1716	42.9
19-Apr-16	8:00	Cloudy	015270	2.8639	2.9842	17656.46	17680.46	24.00	1.20	1.20	1.20	1725	69.7
25-Apr-16	8:00	Rainy	015309	2.8402	2.9074	17683.46	17707.46	24.00	1.14	1.14	1.14	1636	41.1

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		
30-Mar-16	9:57	Cloudy	015053	2.7693	2.7836	17572.45	17573.45	1.00	1.28	1.28	1.28	77	186.4
30-Mar-16	13:00	Cloudy	015048	2.7513	2.7621	17573.45	17574.45	1.00	1.15	1.15	1.15	69	156.6
30-Mar-16	14:15	Cloudy	015043	2.7810	2.7936	17574.45	17575.45	1.00	1.28	1.28	1.28	77	164.3
2-Apr-16	8:08	Cloudy	014921	2.7953	2.8082	17599.46	17600.46	1.00	1.20	1.20	1.20	72	179.4
2-Apr-16	9:12	Cloudy	014917	2.7808	2.7952	17600.46	17601.46	1.00	1.20	1.20	1.20	72	200.2
2-Apr-16	13:00	Cloudy	015139	2.8172	2.8364	17601.46	17602.46	1.00	1.20	1.20	1.20	72	267.0
8-Apr-16	9:15	Cloudy	015097	2.7748	2.7842	17626.46	17627.46	1.00	1.14	1.14	1.14	68	137.5
8-Apr-16	10:57	Cloudy	015094	2.7714	2.7801	17627.46	17628.46	1.00	1.14	1.14	1.14	68	127.2
8-Apr-16	13:00	Cloudy	015122	2.8047	2.8103	17628.46	17629.46	1.00	1.14	1.14	1.14	68	81.9
14-Apr-16	9:49	Cloudy	015278	2.8353	2.8434	17653.46	17654.46	1.00	1.14	1.14	1.14	68	118.3
14-Apr-16	11:00	Cloudy	015275	2.8383	2.8437	17654.46	17655.46	1.00	1.19	1.19	1.19	72	75.5
14-Apr-16	13:00	Cloudy	015272	2.8533	2.8610	17655.46	17656.46	1.00	1.14	1.14	1.14	68	112.5
20-Apr-16	9:17	Cloudy	015259	2.8275	2.8364	17680.46	17681.46	1.00	1.20	1.20	1.20	72	124.0
20-Apr-16	10:56	Cloudy	015292	2.8109	2.8188	17681.46	17682.46	1.00	1.17	1.17	1.17	70	112.5
20-Apr-16	14:02	Cloudy	015296	2.8162	2.8240	17682.46	17683.46	1.00	1.15	1.15	1.15	69	113.5
26-Apr-16	9:42	Cloudy	015438	2.8258	2.8282	17707.46	17708.46	1.00	1.24	1.24	1.24	74	32.3
26-Apr-16	13:00	Cloudy	015433	2.8211	2.8243	17708.46	17709.46	1.00	1.24	1.24	1.24	74	43.1
26-Apr-16	15:01	Cloudy	015327	2.8392	2.8421	17709.46	17710.46	1.00	1.19	1.19	1.19	71	40.8



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-Apr-16	8:00	Cloudy	015007	2.7855	3.0054	5042.18	5066.18	24.00	1.61	1.61	1.61	2322	94.7
2-Apr-16	14:25	Cloudy	015186	2.8387	2.9972	5070.06	5094.06	24.00	1.61	1.61	1.61	2318	68.4
7-Apr-16	8:00	Cloudy	015088	2.7389	2.8700	5094.07	5118.07	24.00	1.41	1.41	1.41	2035	64.4
13-Apr-16	8:00	Rainy	015171	2.8098	2.9081	5121.07	5145.07	24.00	1.56	1.56	1.56	2253	43.6
19-Apr-16	8:00	Cloudy	015248	2.7993	2.9292	5148.07	5172.07	24.00	1.50	1.50	1.50	2157	60.2
25-Apr-16	8:00	Rainy	015300	2.8153	2.9017	5175.08	5199.08	24.00	1.56	1.56	1.56	2241	38.5

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 29 March and 1 April 2016 to 1 and 2 April 2016 respectively.

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		
30-Mar-16	8:03	Cloudy	014880	2.8258	2.8523	5039.18	5040.18	1.00	1.44	1.44	1.44	87	306.0
30-Mar-16	9:35	Cloudy	014870	2.8045	2.8157	5040.18	5041.18	1.00	1.41	1.41	1.41	84	132.7
30-Mar-16	10:50	Cloudy	014867	2.8536	2.8662	5041.18	5042.18	1.00	1.41	1.41	1.41	84	149.3
2-Apr-16	8:35	Cloudy	014964	2.7860	2.7955	5067.06	5068.06	1.00	1.40	1.40	1.40	84	112.9
2-Apr-16	10:00	Cloudy	014961	2.7705	2.7799	5068.06	5069.06	1.00	1.29	1.29	1.29	77	121.4
2-Apr-16	13:00	Cloudy	015183	2.8312	2.8394	5069.06	5070.06	1.00	1.40	1.40	1.40	84	97.5
8-Apr-16	9:00	Cloudy	015180	2.8263	2.8301	5118.07	5119.07	1.00	1.20	1.20	1.20	72	52.6
8-Apr-16	10:30	Cloudy	015177	2.8262	2.8357	5119.07	5120.07	1.00	1.35	1.35	1.35	81	117.0
8-Apr-16	13:00	Cloudy	015174	2.8417	2.8455	5120.07	5121.07	1.00	1.35	1.35	1.35	81	46.8
14-Apr-16	9:10	Cloudy	015257	2.8219	2.8274	5145.07	5146.07	1.00	1.39	1.39	1.39	83	65.9
14-Apr-16	10:45	Cloudy	015254	2.8331	2.8386	5146.07	5147.07	1.00	1.35	1.35	1.35	81	67.7
14-Apr-16	13:00	Cloudy	015251	2.8391	2.8478	5147.07	5148.07	1.00	1.39	1.39	1.39	83	104.2
20-Apr-16	8:45	Cloudy	015323	2.8462	2.8527	5172.07	5173.07	1.00	1.36	1.36	1.36	82	79.6
20-Apr-16	10:25	Cloudy	015320	2.8309	2.8368	5173.07	5174.07	1.00	1.29	1.29	1.29	77	76.4
20-Apr-16	13:50	Cloudy	015317	2.8523	2.8596	5174.07	5175.07	1.00	1.36	1.36	1.36	82	89.4
26-Apr-16	9:00	Cloudy	012822	2.8687	2.8730	5199.08	5200.08	1.00	1.35	1.35	1.35	81	53.3
26-Apr-16	14:02	Cloudy	012820	2.8692	2.8733	5200.08	5201.08	1.00	1.20	1.20	1.20	72	57.0
26-Apr-16	15:06	Cloudy	012821	2.8792	2.8862	5201.08	5202.08	1.00	1.35	1.35	1.35	81	86.7



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		
29-Mar-16	8:00	Cloudy	014881	2.8231	3.0204	21824.18	21848.18	24.00	1.43	1.43	1.43	2059	95.8
1-Apr-16	8:00	Cloudy	015040	2.7572	2.9183	21851.18	21875.18	24.00	1.42	1.42	1.42	2047	78.7
7-Apr-16	8:00	Cloudy	015134	2.7992	2.8250	21878.18	21902.18	24.00	1.49	1.49	1.49	2143	12.0
13-Apr-16	8:00	Rainy	015161	2.7804	2.8585	21905.18	21929.18	24.00	1.41	1.41	1.41	2036	38.4
19-Apr-16	8:00	Cloudy	015269	2.8485	2.9708	21932.18	21956.18	24.00	1.50	1.50	1.50	2157	56.7
25-Apr-16	8:00	Rainy	015310	2.8546	2.8898	21959.18	21983.18	24.00	1.41	1.41	1.41	2025	17.4

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		
30-Mar-16	9:28	Cloudy	015055	2.7831	2.7923	21848.18	21849.18	1.00	1.58	1.58	1.58	95	97.1
30-Mar-16	10:58	Cloudy	015050	2.7646	2.7753	21849.18	21850.18	1.00	1.58	1.58	1.58	95	113.0
30-Mar-16	13:00	Cloudy	015045	2.7671	2.7775	21850.18	21851.18	1.00	1.58	1.58	1.58	95	109.8
2-Apr-16	8:40	Cloudy	014922	2.7997	2.8085	21875.18	21876.18	1.00	1.42	1.42	1.42	85	103.1
2-Apr-16	9:55	Cloudy	014918	2.7928	2.8028	21876.18	21877.18	1.00	1.50	1.50	1.50	90	111.2
2-Apr-16	10:59	Cloudy	015138	2.8246	2.8334	21877.18	21878.18	1.00	1.50	1.50	1.50	90	97.9
8-Apr-16	10:42	Cloudy	015098	2.7836	2.7907	21902.18	21903.18	1.00	1.45	1.45	1.45	87	81.6
8-Apr-16	13:00	Cloudy	015123	2.8074	2.8128	21903.18	21904.18	1.00	1.41	1.41	1.41	85	63.7
8-Apr-16	14:40	Cloudy	015163	2.8218	2.8259	21904.18	21905.18	1.00	1.41	1.41	1.41	85	48.4
14-Apr-16	9:34	Cloudy	015279	2.8349	2.8385	21929.18	21930.18	1.00	1.41	1.41	1.41	85	42.4
14-Apr-16	10:47	Cloudy	01526	2.8371	2.8423	21930.18	21931.18	1.00	1.41	1.41	1.41	85	61.3
14-Apr-16	13:00	Cloudy	015273	2.8538	2.8610	21931.18	21932.18	1.00	1.41	1.41	1.41	85	84.9
20-Apr-16	9:10	Cloudy	015260	2.8250	2.8295	21956.18	21957.18	1.00	1.42	1.42	1.42	85	52.8
20-Apr-16	10:26	Cloudy	015291	2.8137	2.8196	21957.18	21958.18	1.00	1.42	1.42	1.42	85	69.2
20-Apr-16	13:48	Cloudy	015295	2.8218	2.8286	21958.18	21959.18	1.00	1.42	1.42	1.42	85	79.8
26-Apr-16	8:32	Cloudy	015439	2.8343	2.8373	21983.18	21984.18	1.00	1.41	1.41	1.41	84	35.6
26-Apr-16	10:57	Cloudy	015435	2.8108	2.8135	21984.18	21985.18	1.00	1.41	1.41	1.41	84	32.0
26-Apr-16	14:38	Cloudy	015431	2.8443	2.8464	21985.18	21986.18	1.00	1.41	1.41	1.41	84	24.9



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		
29-Mar-16	8:00	Cloudy	015009	2.8012	2.9880	6368.09	6392.09	24.00	0.76	0.71	0.73	1057	176.8
1-Apr-16	8:00	Cloudy	015041	2.7780	3.0358	6395.09	6419.09	24.00	0.97	1.05	1.01	1461	176.5
7-Apr-16	8:00	Cloudy	015135	2.8052	2.9718	6422.09	6446.09	24.00	0.66	0.66	0.66	948	175.8
14-Apr-16	16:35	Cloudy	015266	2.8654	2.9452	6452.09	6476.09	24.00	0.77	0.78	0.78	1119	71.3
19-Apr-16	8:00	Cloudy	015265	2.8700	3.0142	6476.09	6500.09	24.00	0.82	0.82	0.82	1183	121.9
25-Apr-16	8:00	Rainy	015311	2.8331	2.9191	6503.09	6527.09	24.00	0.81	0.80	0.80	1158	74.3

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 13 April 2016 to 14 April 2016.

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		
30-Mar-16	9:14	Cloudy	015056	2.7703	2.7852	6392.09	6393.09	1.00	0.83	0.83	0.83	50	300.3
30-Mar-16	10:43	Cloudy	015051	2.7764	2.7921	6393.09	6394.09	1.00	0.83	0.83	0.83	50	316.4
30-Mar-16	13:00	Cloudy	015046	2.7657	2.7817	6394.09	6395.09	1.00	0.83	0.83	0.83	50	322.4
2-Apr-16	8:30	Cloudy	014885	2.8085	2.8170	6419.09	6420.09	1.00	0.82	0.82	0.82	49	172.2
2-Apr-16	9:46	Cloudy	014919	2.8085	2.8137	6420.09	6421.09	1.00	0.67	0.67	0.67	40	129.7
2-Apr-16	10:49	Cloudy	015137	2.8187	2.8298	6421.09	6422.09	1.00	0.82	0.82	0.82	49	224.8
8-Apr-16	8:46	Cloudy	015099	2.7845	2.7940	6446.09	6447.09	1.00	0.81	0.81	0.81	49	195.4
8-Apr-16	10:23	Cloudy	015095	2.7786	2.7872	6447.09	6448.09	1.00	0.77	0.77	0.77	46	185.7
8-Apr-16	13:00	Cloudy	015124	2.8206	2.8255	6448.09	6449.09	1.00	0.73	0.73	0.73	44	111.3
14-Apr-16	8:00	Cloudy	015120	2.8201	2.8441	6449.09	6450.09	1.00	0.81	0.81	0.81	49	492.5
14-Apr-16	14:00	Cloudy	015671	2.8592	2.8686	6450.09	6451.09	1.00	0.85	0.85	0.85	51	184.2
14-Apr-16	15:23	Cloudy	015268	2.8569	2.8627	6451.09	6452.09	1.00	0.74	0.74	0.74	44	131.4
20-Apr-16	8:46	Cloudy	015261	2.8312	2.8376	6500.09	6501.09	1.00	0.74	0.74	0.74	45	143.7
20-Apr-16	10:07	Cloudy	015290	2.8192	2.8301	6501.09	6502.09	1.00	0.82	0.82	0.82	49	221.7
20-Apr-16	13:11	Cloudy	015294	2.8088	2.8207	6502.09	6503.09	1.00	0.82	0.82	0.82	49	242.0
26-Apr-16	8:49	Cloudy	015440	2.8584	2.8635	6527.09	6528.09	1.00	0.80	0.80	0.80	48	105.8
26-Apr-16	10:34	Cloudy	015436	2.8258	2.8323	6528.09	6529.09	1.00	0.80	0.80	0.80	48	134.9
26-Apr-16	14:00	Cloudy	015419	2.8354	2.8401	6529.09	6530.09	1.00	0.80	0.80	0.80	48	97.5

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		
29-Mar-16	8:00	Cloudy	014981	2.7931	2.9591	18507.71	18531.71	24.00	1.28	1.27	1.27	1835	90.5
1-Apr-16	8:00	Cloudy	014864	2.8422	3.0083	18534.71	18558.71	24.00	1.26	1.27	1.27	1823	91.1
7-Apr-16	8:00	Cloudy	014969	2.8252	2.8960	18561.71	18585.71	24.00	1.26	1.26	1.26	1820	38.9
13-Apr-16	8:00	Rainy	015110	2.7706	2.8284	18588.71	18612.71	24.00	1.31	1.31	1.31	1887	30.6
19-Apr-16	8:00	Cloudy	015144	2.8100	2.9012	18615.71	18639.71	24.00	1.36	1.36	1.36	1962	46.5
25-Apr-16	8:00	Rainy	015241	2.7922	2.8652	18642.71	18666.71	24.00	1.33	1.33	1.33	1914	38.1

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		
30-Mar-16	8:01	Cloudy	014978	2.8055	2.8173	18531.71	18532.71	1.00	1.27	1.27	1.27	76	154.6
30-Mar-16	9:02	Cloudy	014975	2.8213	2.8279	18532.71	18533.71	1.00	1.27	1.27	1.27	76	86.5
30-Mar-16	10:04	Cloudy	014972	2.8120	2.8201	18533.71	18534.71	1.00	1.27	1.27	1.27	76	106.1
2-Apr-16	8:02	Cloudy	015059	2.7547	2.7618	18558.71	18559.71	1.00	1.27	1.27	1.27	76	93.2
2-Apr-16	9:04	Cloudy	015062	2.7513	2.7572	18559.71	18560.71	1.00	1.27	1.27	1.27	76	77.4
2-Apr-16	10:06	Cloudy	015085	2.7774	2.7827	18560.71	18561.71	1.00	1.27	1.27	1.27	76	69.6
8-Apr-16	8:39	Cloudy	015119	2.8229	2.8275	18585.71	18586.71	1.00	1.26	1.26	1.26	76	60.7
8-Apr-16	9:42	Cloudy	015117	2.7933	2.7998	18586.71	18587.71	1.00	1.26	1.26	1.26	76	85.8
8-Apr-16	10:49	Cloudy	015113	2.7558	2.7597	18587.71	18588.71	1.00	1.26	1.26	1.26	76	51.5
14-Apr-16	8:01	Cloudy	015169	2.8412	2.8443	18612.71	18613.71	1.00	1.26	1.26	1.26	76	40.9
14-Apr-16	9:02	Cloudy	015150	2.7987	2.8019	18613.71	18614.71	1.00	1.26	1.26	1.26	76	42.2
14-Apr-16	10:04	Cloudy	015147	2.8054	2.8110	18614.71	18615.71	1.00	1.26	1.26	1.26	76	73.8
20-Apr-16	8:01	Cloudy	015141	2.8008	2.8052	18639.71	18640.71	1.00	1.27	1.27	1.27	76	57.8
20-Apr-16	9:02	Cloudy	015164	2.8266	2.8308	18640.71	18641.71	1.00	1.27	1.27	1.27	76	55.2
20-Apr-16	10:04	Cloudy	015243	2.8062	2.8100	18641.71	18642.71	1.00	1.27	1.27	1.27	76	49.9
26-Apr-16	8:04	Cloudy	015238	2.8075	2.8102	18666.71	18667.71	1.00	1.26	1.26	1.26	76	35.7
26-Apr-16	9:10	Cloudy	015235	2.8190	2.8211	18667.71	18668.71	1.00	1.28	1.28	1.28	77	27.3
26-Apr-16	10:14	Cloudy	015232	2.8301	2.8325	18668.71	18669.71	1.00	1.31	1.31	1.31	78	30.6



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		
29-Mar-16	8:00	Cloudy	014980	2.8093	2.9705	18533.03	18557.03	24.00	1.24	1.24	1.24	1784	90.4
1-Apr-16	8:00	Cloudy	014863	2.8371	2.9323	18560.09	18584.09	24.00	1.23	1.23	1.23	1775	53.6
7-Apr-16	8:00	Cloudy	014968	2.8070	2.8875	18587.09	18611.09	24.00	1.23	1.23	1.23	1767	45.6
13-Apr-16	8:00	Rainy	015111	2.7628	2.8167	18614.09	18638.09	24.00	1.23	1.23	1.23	1767	30.5
19-Apr-16	8:00	Cloudy	015143	2.8014	2.8742	18641.09	18665.09	24.00	1.23	1.23	1.23	1776	41.0
25-Apr-16	8:00	Rainy	015240	2.7947	2.8493	18668.09	18692.09	24.00	1.22	1.22	1.22	1760	31.0

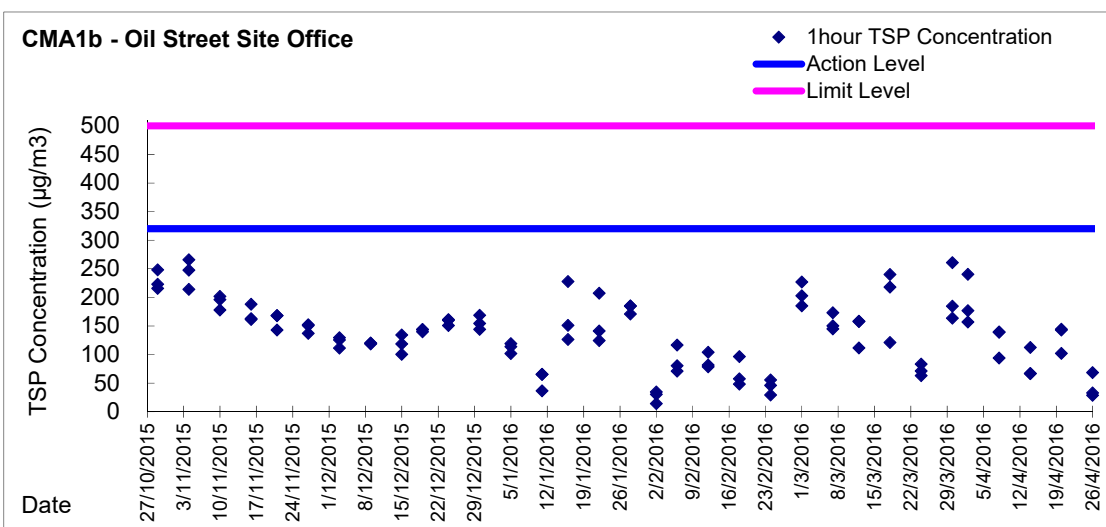
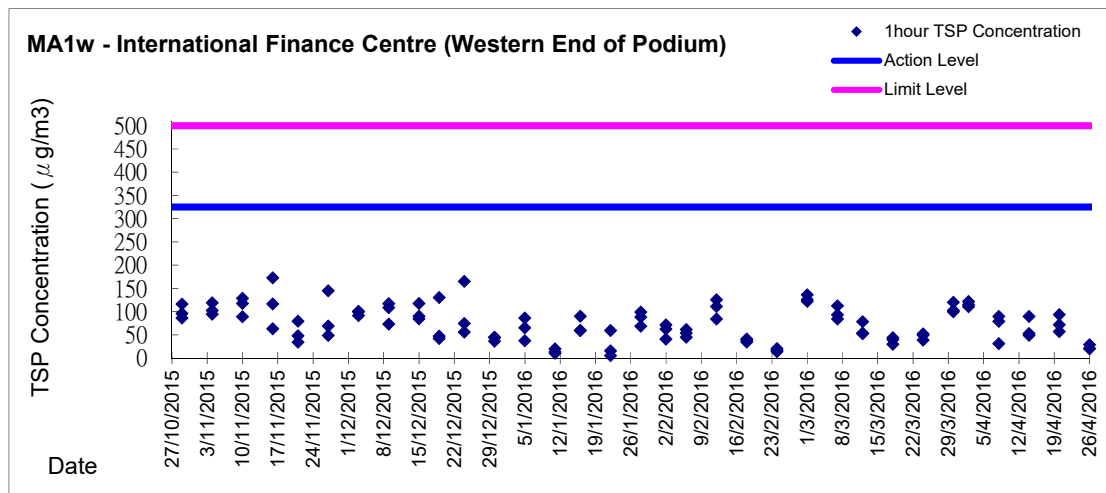
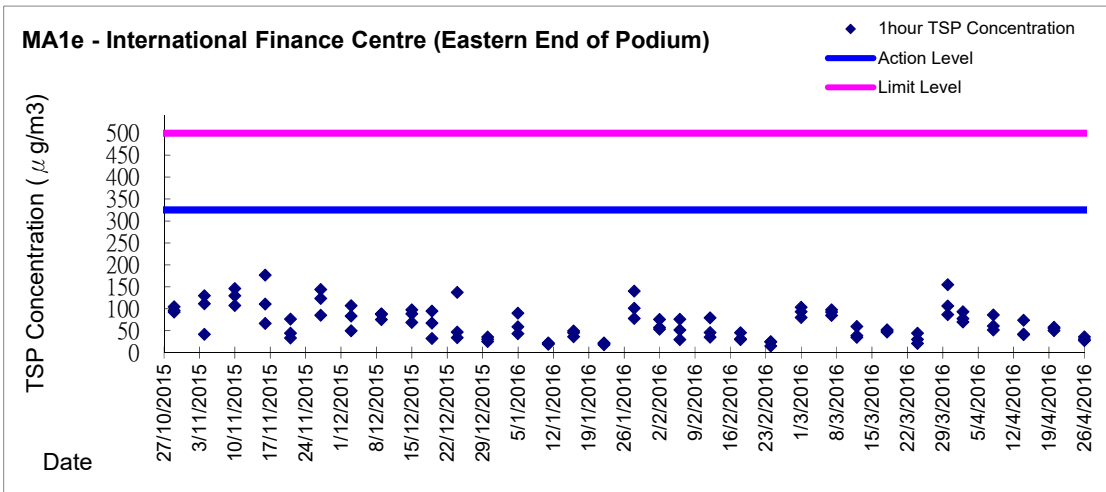
Report on 1-hour TSP monitoring

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

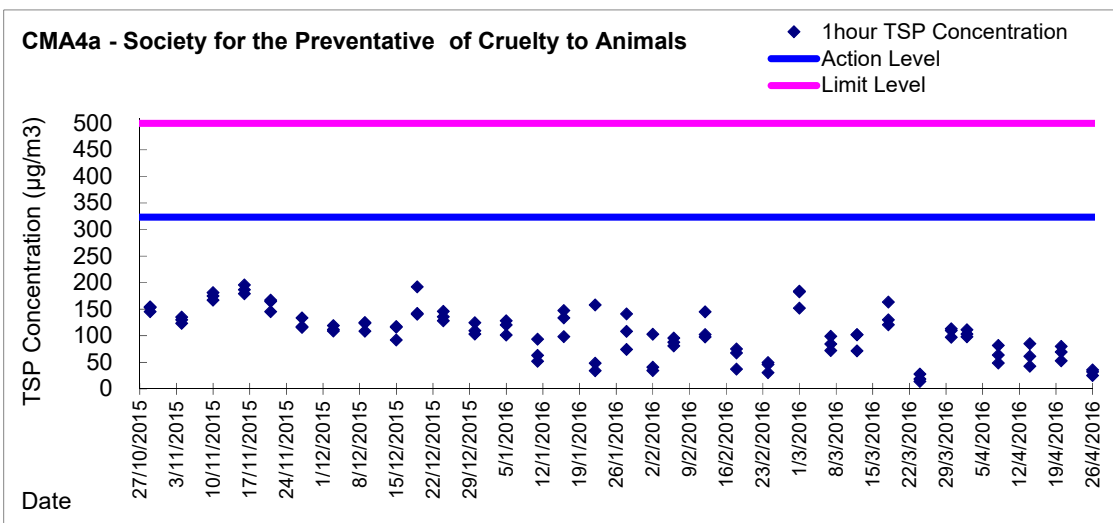
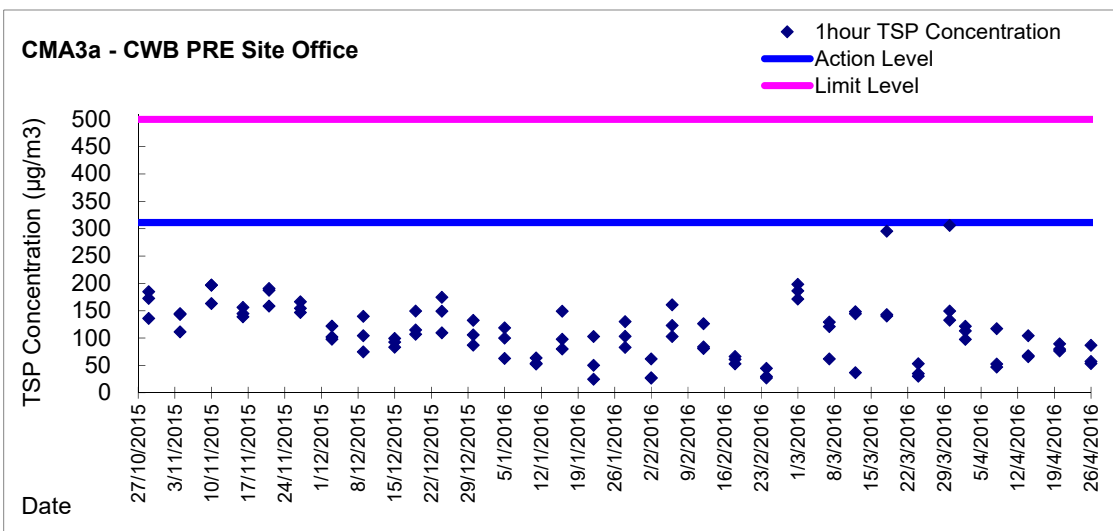
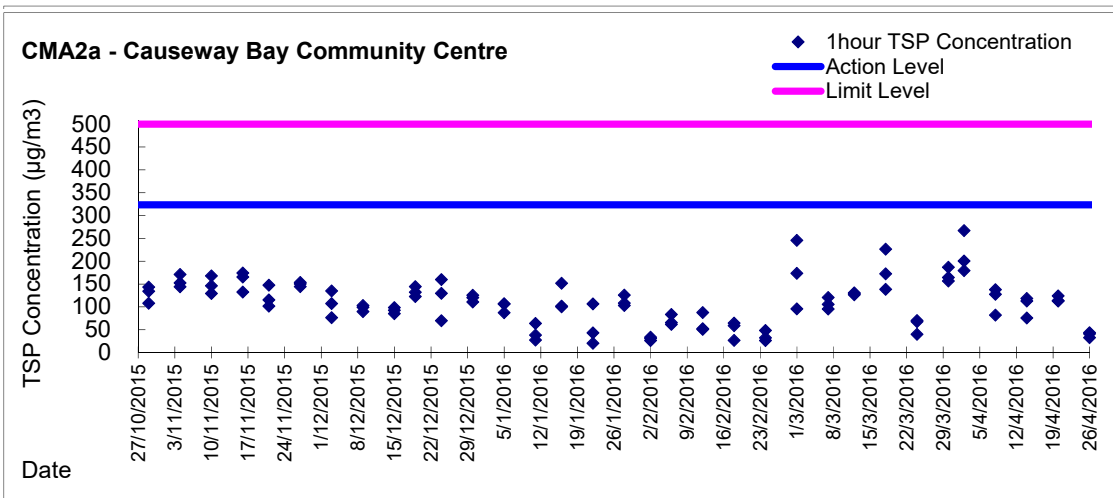
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

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		
30-Mar-16	8:05	Cloudy	014977	2.8040	2.8116	18557.09	18558.09	1.00	1.24	1.24	1.24	74	102.4
30-Mar-16	9:07	Cloudy	014974	2.8110	2.8199	18558.09	18559.09	1.00	1.24	1.24	1.24	74	120.0
30-Mar-16	10:09	Cloudy	014971	2.8045	2.8119	18559.09	18560.09	1.00	1.24	1.24	1.24	74	99.7
2-Apr-16	8:05	Cloudy	015060	2.7660	2.7745	18584.09	18585.09	1.00	1.23	1.23	1.23	74	114.8
2-Apr-16	9:07	Cloudy	015083	2.7854	2.7944	18585.09	18586.09	1.00	1.23	1.23	1.23	74	121.6
2-Apr-16	10:09	Cloudy	015086	2.7744	2.7826	18586.09	18587.09	1.00	1.23	1.23	1.23	74	110.8
8-Apr-16	8:30	Cloudy	014966	2.7943	2.8001	18611.09	18612.09	1.00	1.23	1.23	1.23	74	78.8
8-Apr-16	9:33	Cloudy	015118	2.8073	2.8139	18612.09	18613.09	1.00	1.23	1.23	1.23	74	89.7
8-Apr-16	10:39	Cloudy	015114	2.7822	2.7845	18613.09	18614.09	1.00	1.23	1.23	1.23	74	31.3
14-Apr-16	8:05	Cloudy	015168	2.8458	2.8524	18638.09	18639.09	1.00	1.23	1.23	1.23	74	89.6
14-Apr-16	9:07	Cloudy	015149	2.7959	2.7995	18639.09	18640.09	1.00	1.23	1.23	1.23	74	48.9
14-Apr-16	10:09	Cloudy	015146	2.8123	2.8162	18640.09	18641.09	1.00	1.23	1.23	1.23	74	53.0
20-Apr-16	8:05	Cloudy	015166	2.8253	2.8295	18665.09	18666.09	1.00	1.23	1.23	1.23	74	56.8
20-Apr-16	9:07	Cloudy	015108	2.7734	2.7803	18666.09	18667.09	1.00	1.23	1.23	1.23	74	93.4
20-Apr-16	10:09	Cloudy	015244	2.8096	2.8149	18667.09	18668.09	1.00	1.23	1.23	1.23	74	71.7
26-Apr-16	8:05	Cloudy	015237	2.8212	2.8233	18692.09	18693.09	1.00	1.22	1.22	1.22	73	28.7
26-Apr-16	9:08	Cloudy	015234	2.8218	2.8233	18693.09	18694.09	1.00	1.22	1.22	1.22	73	20.5
26-Apr-16	10:19	Cloudy	015231	2.8159	2.8174	18694.09	18695.09	1.00	1.22	1.22	1.22	73	20.5

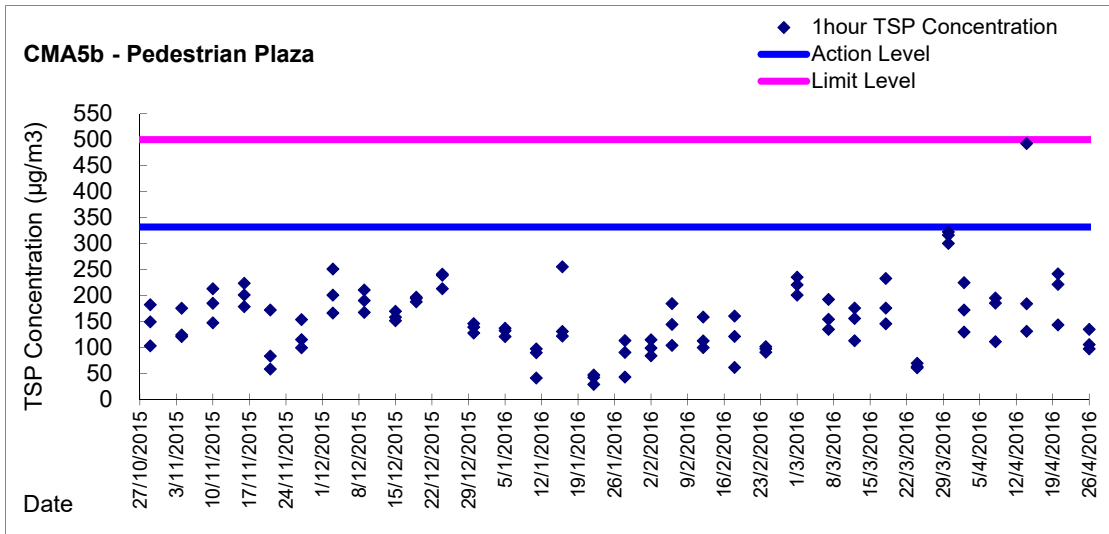
Graphic Presentation of 1 hour TSP Result



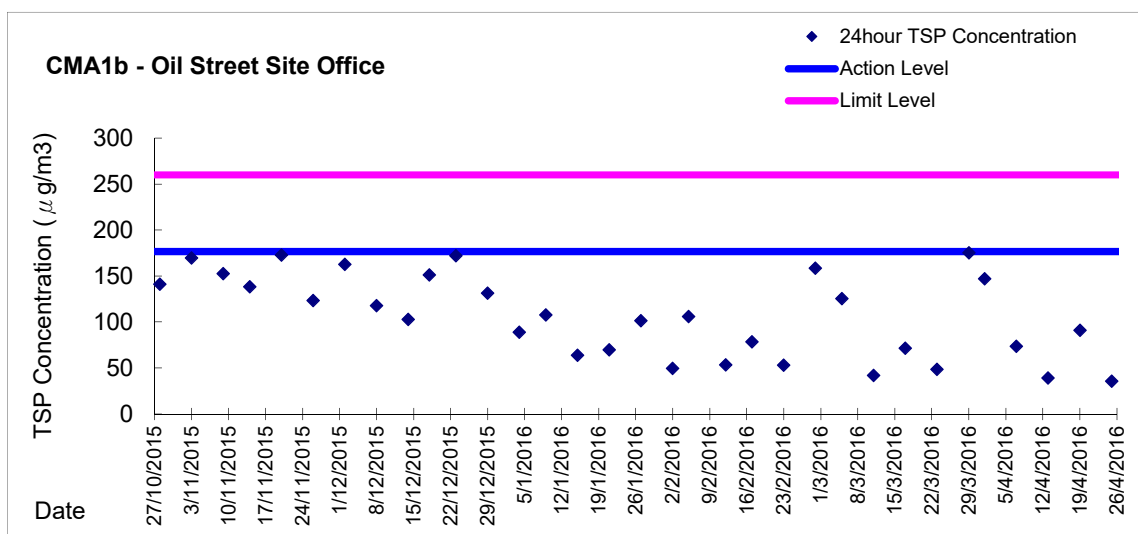
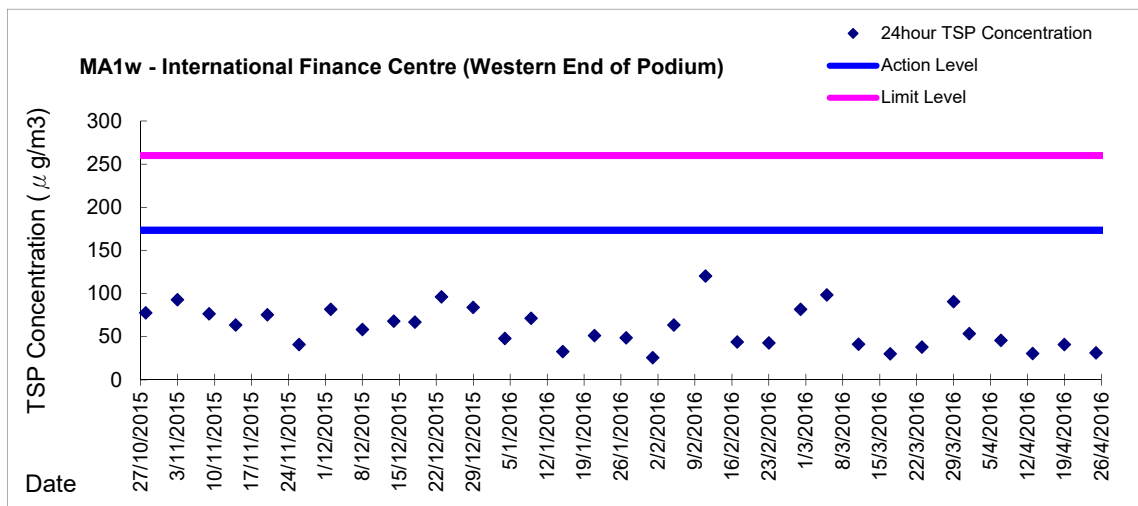
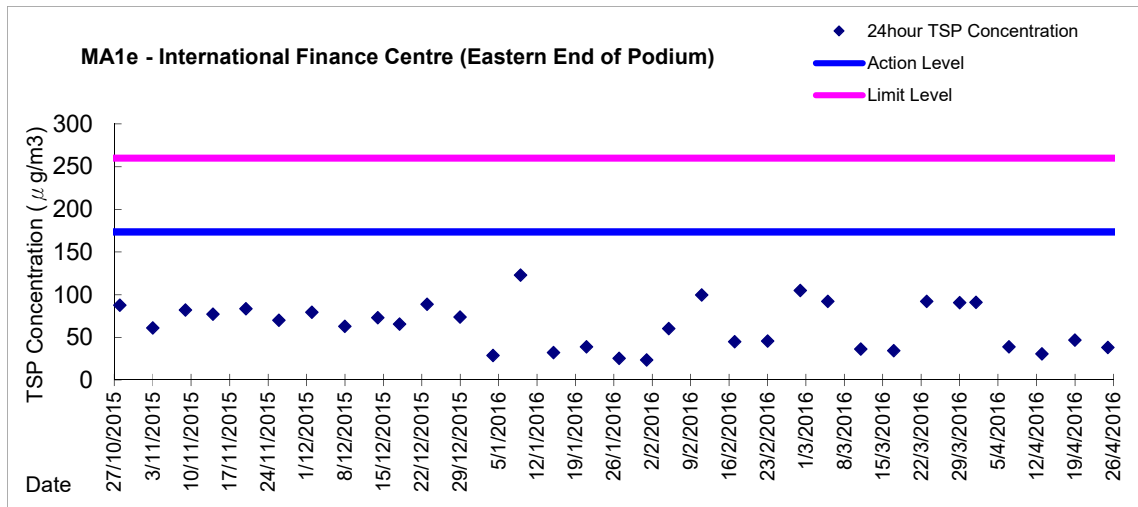
Graphic Presentation of 1 hour TSP Result



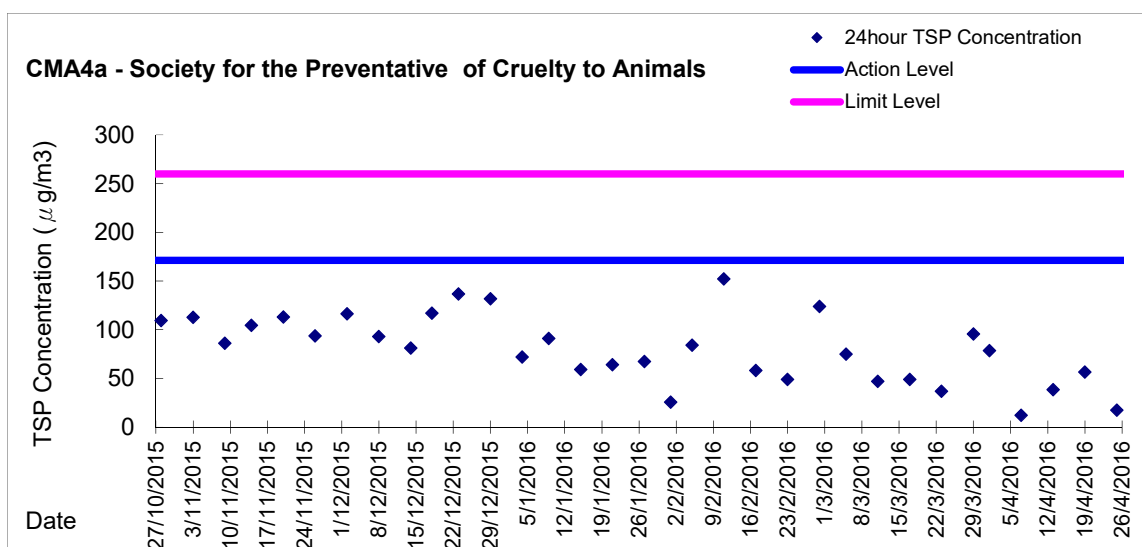
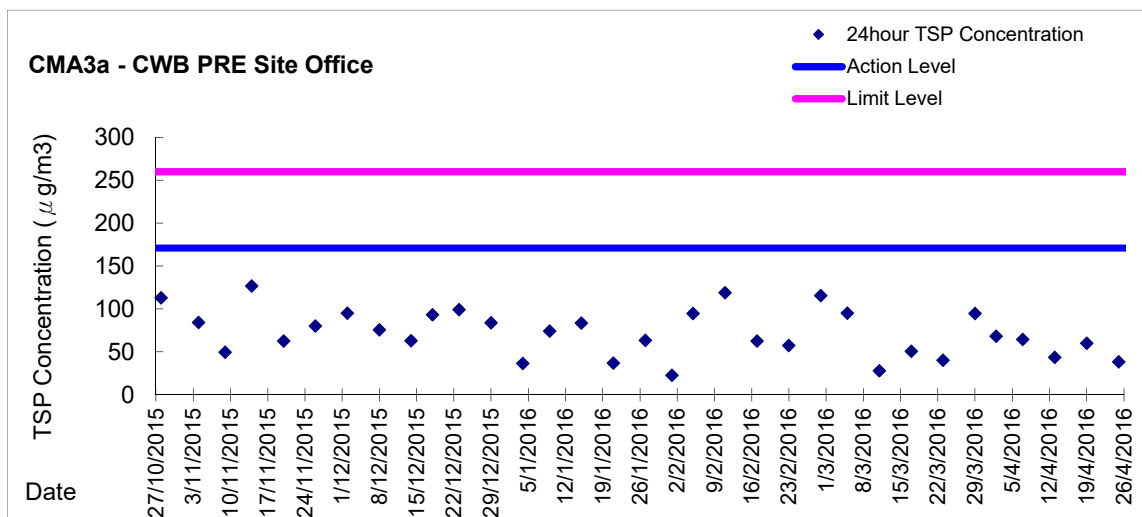
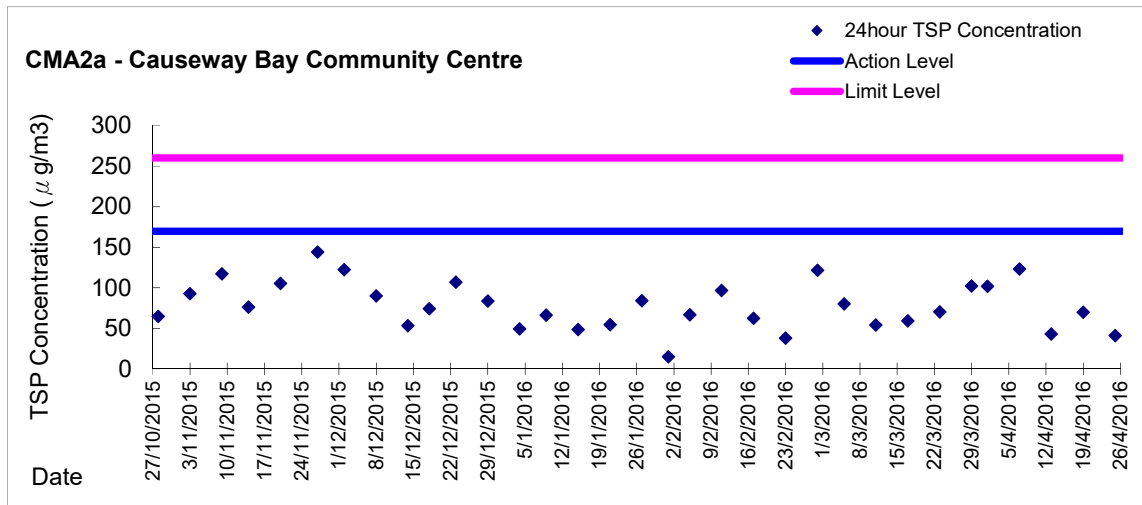
Graphic Presentation of 1 hour TSP Result



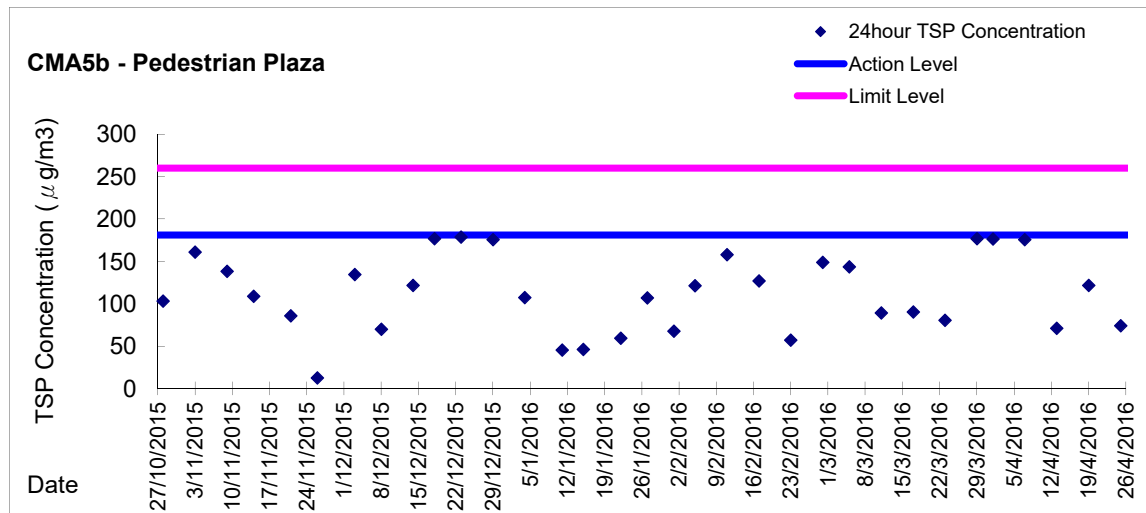
Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 24 hour TSP Result





Appendix 5.4

Real Time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data		RTN1 (Food and Environmental Hygiene Department Depot)	
25/4/2016 1:41	60	26/4/2016 2:46	59
25/4/2016 1:46	59	26/4/2016 2:51	59
25/4/2016 1:51	60	26/4/2016 2:56	59
25/4/2016 1:56	59	26/4/2016 3:01	58
25/4/2016 2:01	59	26/4/2016 3:06	58
25/4/2016 2:06	58	26/4/2016 3:11	59
25/4/2016 2:11	58	26/4/2016 3:16	58
25/4/2016 2:16	59	26/4/2016 3:21	58
25/4/2016 2:21	58	26/4/2016 3:26	58
25/4/2016 2:26	59	26/4/2016 3:31	58
25/4/2016 2:31	57	26/4/2016 3:36	60
25/4/2016 2:36	59	26/4/2016 3:41	58
25/4/2016 2:41	58	26/4/2016 3:46	57
25/4/2016 2:46	59	26/4/2016 3:51	58
25/4/2016 2:51	58	26/4/2016 3:56	59
25/4/2016 2:56	59	26/4/2016 4:01	58
25/4/2016 3:01	57	26/4/2016 4:06	58
25/4/2016 3:06	58	26/4/2016 4:11	57
25/4/2016 3:11	58	26/4/2016 4:16	58
25/4/2016 3:16	58	26/4/2016 4:21	57
25/4/2016 3:21	57	26/4/2016 4:26	58
25/4/2016 3:26	59	26/4/2016 4:31	59
25/4/2016 3:31	59	26/4/2016 4:36	60
25/4/2016 3:36	59	26/4/2016 4:41	59
25/4/2016 3:41	58	26/4/2016 4:46	59
25/4/2016 3:46	58	26/4/2016 4:51	59
25/4/2016 3:51	58	26/4/2016 4:56	59
25/4/2016 3:56	58	26/4/2016 5:01	59
25/4/2016 4:01	58	26/4/2016 5:06	58
25/4/2016 4:06	58	26/4/2016 5:11	59
25/4/2016 4:11	58	26/4/2016 5:16	61
25/4/2016 4:16	59	26/4/2016 5:21	60
25/4/2016 4:21	58	26/4/2016 5:26	59
25/4/2016 4:26	59	26/4/2016 5:31	59
25/4/2016 4:31	57	26/4/2016 5:36	59
25/4/2016 4:36	59	26/4/2016 5:41	61
25/4/2016 4:41	59	26/4/2016 5:46	61
25/4/2016 4:46	58	26/4/2016 5:51	61
25/4/2016 4:51	60	26/4/2016 5:56	61
25/4/2016 4:56	59	26/4/2016 6:01	48
25/4/2016 5:01	61	26/4/2016 6:06	62
25/4/2016 5:06	68	26/4/2016 6:11	62
25/4/2016 5:11	58	26/4/2016 6:16	55
25/4/2016 5:16	60	26/4/2016 6:21	57
25/4/2016 5:21	60	26/4/2016 6:26	59
25/4/2016 5:26	60	26/4/2016 6:31	58
25/4/2016 5:31	60	26/4/2016 6:36	60
25/4/2016 5:36	61	26/4/2016 6:41	60
25/4/2016 5:41	61	26/4/2016 6:46	61
25/4/2016 5:46	61	26/4/2016 6:51	61
25/4/2016 5:51	50	26/4/2016 6:56	61
25/4/2016 5:56	42	26/4/2016 23:01	59
25/4/2016 6:01	62	26/4/2016 23:06	59
25/4/2016 6:06	50	26/4/2016 23:11	58
25/4/2016 6:11	56	26/4/2016 23:16	60
25/4/2016 6:16	58	26/4/2016 23:21	59
25/4/2016 6:21	58	26/4/2016 23:26	59
25/4/2016 6:26	59	26/4/2016 23:31	57
25/4/2016 6:31	61	26/4/2016 23:36	58
25/4/2016 6:36	61	26/4/2016 23:41	56
25/4/2016 6:41	60	26/4/2016 23:46	57
25/4/2016 6:46	63	26/4/2016 23:51	56
25/4/2016 6:51	63	26/4/2016 23:56	58
25/4/2016 6:56	64		
25/4/2016 23:01	59		
25/4/2016 23:06	60		
25/4/2016 23:11	60		
25/4/2016 23:16	59		
25/4/2016 23:21	59		
25/4/2016 23:26	58		
25/4/2016 23:31	58		
25/4/2016 23:36	54		
25/4/2016 23:41	58		
25/4/2016 23:46	55		
25/4/2016 23:51	57		
25/4/2016 23:56	56		
26/4/2016 0:01	52		
26/4/2016 0:06	57		
26/4/2016 0:11	53		
26/4/2016 0:16	55		
26/4/2016 0:21	56		
26/4/2016 0:26	52		
26/4/2016 0:31	53		
26/4/2016 0:36	52		
26/4/2016 0:41	62		
26/4/2016 0:46	62		
26/4/2016 0:51	62		
26/4/2016 0:56	62		
26/4/2016 1:01	61		
26/4/2016 1:06	61		
26/4/2016 1:11	62		
26/4/2016 1:16	61		
26/4/2016 1:21	61		
26/4/2016 1:26	61		
26/4/2016 1:31	61		
26/4/2016 1:36	61		
26/4/2016 1:41	60		
26/4/2016 1:46	60		
26/4/2016 1:51	60		
26/4/2016 1:56	59		
26/4/2016 2:01	60		
26/4/2016 2:06	60		
26/4/2016 2:11	61		
26/4/2016 2:16	59		
26/4/2016 2:21	59		
26/4/2016 2:26	60		
26/4/2016 2:31	60		
26/4/2016 2:36	59		
26/4/2016 2:41	60		

Real-time Noise Data		RTN2a (Hong Kong Electric Centre)																	
Normal Day 07:00-19:00		2/4/2016 12:31		9/4/2016 7:01		61		14/4/2016 13:31		66		20/4/2016 8:01		65		25/4/2016 14:31		63	
		2/4/2016 13:01		9/4/2016 7:31		62		14/4/2016 14:01		66		20/4/2016 8:31		64		25/4/2016 15:01		69	
29/3/2016 7:01	62	2/4/2016 13:31		9/4/2016 8:01		65		14/4/2016 14:31		67		20/4/2016 9:01		66		25/4/2016 15:31		73	
29/3/2016 7:31	63	2/4/2016 14:01		9/4/2016 8:31		66		14/4/2016 15:01		67		20/4/2016 9:31		61		25/4/2016 16:01		68	
29/3/2016 8:01	66	2/4/2016 14:31		9/4/2016 9:01		66		14/4/2016 15:31		67		20/4/2016 10:01		64		25/4/2016 16:31		63	
29/3/2016 8:31	67	2/4/2016 15:01		9/4/2016 9:31		66		14/4/2016 16:01		66		20/4/2016 10:31		66		25/4/2016 17:01		65	
29/3/2016 9:01	58	2/4/2016 15:31		9/4/2016 10:01		67		14/4/2016 16:31		67		20/4/2016 11:01		59		25/4/2016 17:31		65	
29/3/2016 9:31	67	2/4/2016 16:01		9/4/2016 10:31		67		14/4/2016 17:01		62		20/4/2016 11:31		65		25/4/2016 18:01		64	
29/3/2016 10:01	67	2/4/2016 16:31		9/4/2016 11:01		67		14/4/2016 17:31		59		20/4/2016 12:01		64		25/4/2016 18:31		62	
29/3/2016 10:31	59	2/4/2016 17:01		9/4/2016 11:31		66		14/4/2016 18:01		65		20/4/2016 12:31		64		26/4/2016 7:01		63	
29/3/2016 11:01	67	2/4/2016 17:31		9/4/2016 12:01		63		14/4/2016 18:31		67		20/4/2016 13:01		67		26/4/2016 7:31		63	
29/3/2016 11:31	65	2/4/2016 18:01		9/4/2016 12:31		64		15/4/2016 7:01		62		20/4/2016 13:31		63		26/4/2016 8:01		75	
29/3/2016 12:01	63	2/4/2016 18:31		9/4/2016 13:01		66		15/4/2016 7:31		62		20/4/2016 14:01		66		26/4/2016 8:31		76	
29/3/2016 12:31	64	5/4/2016 7:01		9/4/2016 13:31		67		15/4/2016 8:01		65		20/4/2016 14:31		54		26/4/2016 9:01		69	
29/3/2016 13:01	42	5/4/2016 7:31		9/4/2016 14:01		67		15/4/2016 8:31		61		20/4/2016 15:01		63		26/4/2016 9:31		61	
29/3/2016 13:31	53	5/4/2016 8:01		9/4/2016 14:31		57		15/4/2016 9:01		63		20/4/2016 15:31		60		26/4/2016 10:01		63	
29/3/2016 14:01	67	5/4/2016 8:31		9/4/2016 15:01		66		15/4/2016 9:31		64		20/4/2016 16:01		62		26/4/2016 10:31		61	
29/3/2016 14:31	67	5/4/2016 9:01		9/4/2016 15:31		65		15/4/2016 10:01		58		20/4/2016 16:31		65		26/4/2016 11:01		63	
29/3/2016 15:01	67	5/4/2016 9:31		9/4/2016 16:01		71		15/4/2016 10:31		58		20/4/2016 17:01		59		26/4/2016 11:31		65	
29/3/2016 15:31	66	5/4/2016 10:01		9/4/2016 16:31		63		15/4/2016 11:01		57		20/4/2016 17:31		63		26/4/2016 12:01		62	
29/3/2016 16:01	67	5/4/2016 10:31		9/4/2016 17:01		64		15/4/2016 11:31		64		20/4/2016 18:01		64		26/4/2016 12:31		64	
29/3/2016 16:31	67	5/4/2016 11:01		9/4/2016 17:31		63		15/4/2016 12:01		62		20/4/2016 18:31		63		26/4/2016 13:01		63	
29/3/2016 17:01	66	5/																	

Real-time Noise Data		RTN2a (Hong Kong Electric Centre)	
25/4/2016 1:41	52	26/4/2016 2:46	44
25/4/2016 1:46	58	26/4/2016 2:51	58
25/4/2016 1:51	47	26/4/2016 2:56	37
25/4/2016 1:56	58	26/4/2016 3:01	58
25/4/2016 2:01	58	26/4/2016 3:06	58
25/4/2016 2:06	58	26/4/2016 3:11	58
25/4/2016 2:11	58	26/4/2016 3:16	58
25/4/2016 2:16	57	26/4/2016 3:21	58
25/4/2016 2:21	57	26/4/2016 3:26	58
25/4/2016 2:26	58	26/4/2016 3:31	58
25/4/2016 2:31	57	26/4/2016 3:36	49
25/4/2016 2:36	58	26/4/2016 3:41	58
25/4/2016 2:41	57	26/4/2016 3:46	57
25/4/2016 2:46	58	26/4/2016 3:51	58
25/4/2016 2:51	58	26/4/2016 3:56	48
25/4/2016 2:56	57	26/4/2016 4:01	58
25/4/2016 3:01	57	26/4/2016 4:06	54
25/4/2016 3:06	57	26/4/2016 4:11	58
25/4/2016 3:11	57	26/4/2016 4:16	58
25/4/2016 3:16	57	26/4/2016 4:21	57
25/4/2016 3:21	57	26/4/2016 4:26	58
25/4/2016 3:26	58	26/4/2016 4:31	58
25/4/2016 3:31	57	26/4/2016 4:36	51
25/4/2016 3:36	58	26/4/2016 4:41	47
25/4/2016 3:41	57	26/4/2016 4:46	58
25/4/2016 3:46	58	26/4/2016 4:51	43
25/4/2016 3:51	57	26/4/2016 4:56	58
25/4/2016 3:56	57	26/4/2016 5:01	58
25/4/2016 4:01	56	26/4/2016 5:06	58
25/4/2016 4:06	37	26/4/2016 5:11	58
25/4/2016 4:11	57	26/4/2016 5:16	56
25/4/2016 4:16	57	26/4/2016 5:21	51
25/4/2016 4:21	57	26/4/2016 5:26	58
25/4/2016 4:26	45	26/4/2016 5:31	50
25/4/2016 4:31	57	26/4/2016 5:36	51
25/4/2016 4:36	58	26/4/2016 5:41	54
25/4/2016 4:41	58	26/4/2016 5:46	55
25/4/2016 4:46	58	26/4/2016 5:51	56
25/4/2016 4:51	38	26/4/2016 5:56	56
25/4/2016 4:56	58	26/4/2016 6:01	59
25/4/2016 5:01	58	26/4/2016 6:06	58
25/4/2016 5:06	51	26/4/2016 6:11	58
25/4/2016 5:11	57	26/4/2016 6:16	59
25/4/2016 5:16	45	26/4/2016 6:21	59
25/4/2016 5:21	48	26/4/2016 6:26	60
25/4/2016 5:26	54	26/4/2016 6:31	61
25/4/2016 5:31	46	26/4/2016 6:36	61
25/4/2016 5:36	56	26/4/2016 6:41	62
25/4/2016 5:41	54	26/4/2016 6:46	62
25/4/2016 5:46	54	26/4/2016 6:51	62
25/4/2016 5:51	58	26/4/2016 6:56	62
25/4/2016 5:56	57	26/4/2016 23:01	61
25/4/2016 6:01	55	26/4/2016 23:06	61
25/4/2016 6:06	57	26/4/2016 23:11	59
25/4/2016 6:11	59	26/4/2016 23:16	61
25/4/2016 6:16	59	26/4/2016 23:21	59
25/4/2016 6:21	60	26/4/2016 23:26	60
25/4/2016 6:26	61	26/4/2016 23:31	60
25/4/2016 6:31	62	26/4/2016 23:36	59
25/4/2016 6:36	62	26/4/2016 23:41	60
25/4/2016 6:41	61	26/4/2016 23:46	58
25/4/2016 6:46	62	26/4/2016 23:51	58
25/4/2016 6:51	62	26/4/2016 23:56	59
25/4/2016 6:56	62		
25/4/2016 23:01	61		
25/4/2016 23:06	61		
25/4/2016 23:11	61		
25/4/2016 23:16	61		
25/4/2016 23:21	60		
25/4/2016 23:26	59		
25/4/2016 23:31	60		
25/4/2016 23:36	58		
25/4/2016 23:41	60		
25/4/2016 23:46	59		
25/4/2016 23:51	59		
25/4/2016 23:56	59		
26/4/2016 0:01	58		
26/4/2016 0:06	59		
26/4/2016 0:11	59		
26/4/2016 0:16	59		
26/4/2016 0:21	59		
26/4/2016 0:26	58		
26/4/2016 0:31	58		
26/4/2016 0:36	57		
26/4/2016 0:41	56		
26/4/2016 0:46	56		
26/4/2016 0:51	55		
26/4/2016 0:56	56		
26/4/2016 1:01	55		
26/4/2016 1:06	55		
26/4/2016 1:11	57		
26/4/2016 1:16	51		
26/4/2016 1:21	55		
26/4/2016 1:26	54		
26/4/2016 1:31	52		
26/4/2016 1:36	56		
26/4/2016 1:41	51		
26/4/2016 1:46	47		
26/4/2016 1:51	47		
26/4/2016 1:56	47		
26/4/2016 2:01	52		
26/4/2016 2:06	53		
26/4/2016 2:11	56		
26/4/2016 2:16	45		
26/4/2016 2:21	47		
26/4/2016 2:26	51		
26/4/2016 2:31	58		
26/4/2016 2:36	56		
26/4/2016 2:41	49		

Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)
25/4/2016 1:41	63
25/4/2016 1:46	61
25/4/2016 1:51	61
25/4/2016 1:56	61
25/4/2016 2:01	61
25/4/2016 2:06	60
25/4/2016 2:11	60
25/4/2016 2:16	60
25/4/2016 2:21	60
25/4/2016 2:26	60
25/4/2016 2:31	59
25/4/2016 2:36	60
25/4/2016 2:41	61
25/4/2016 2:46	60
25/4/2016 2:51	66
25/4/2016 2:56	61
25/4/2016 3:01	60
25/4/2016 3:06	60
25/4/2016 3:11	60
25/4/2016 3:16	60
25/4/2016 3:21	59
25/4/2016 3:26	61
25/4/2016 3:31	60
25/4/2016 3:36	61
25/4/2016 3:41	61
25/4/2016 3:46	60
25/4/2016 3:51	60
25/4/2016 3:56	60
25/4/2016 4:01	60
25/4/2016 4:06	62
25/4/2016 4:11	60
25/4/2016 4:16	61
25/4/2016 4:21	60
25/4/2016 4:26	61
25/4/2016 4:31	60
25/4/2016 4:36	61
25/4/2016 4:41	61
25/4/2016 4:46	60
25/4/2016 4:51	61
25/4/2016 4:56	61
25/4/2016 5:01	61
25/4/2016 5:06	62
25/4/2016 5:11	60
25/4/2016 5:16	61
25/4/2016 5:21	62
25/4/2016 5:26	62
25/4/2016 5:31	61
25/4/2016 5:36	51
25/4/2016 5:41	63
25/4/2016 5:46	62
25/4/2016 5:51	56
25/4/2016 5:56	45
25/4/2016 6:01	54
25/4/2016 6:06	52
25/4/2016 6:11	58
25/4/2016 6:16	59
25/4/2016 6:21	61
25/4/2016 6:26	62
25/4/2016 6:31	63
25/4/2016 6:36	63
25/4/2016 6:41	62
25/4/2016 6:46	63
25/4/2016 6:51	64
25/4/2016 6:56	66
25/4/2016 23:01	63
25/4/2016 23:06	63
25/4/2016 23:11	62
25/4/2016 23:16	62
25/4/2016 23:21	62
25/4/2016 23:26	61
25/4/2016 23:31	60
25/4/2016 23:36	60
25/4/2016 23:41	61
25/4/2016 23:46	61
25/4/2016 23:51	61
25/4/2016 23:56	59
26/4/2016 0:01	58
26/4/2016 0:06	61
26/4/2016 0:11	59
26/4/2016 0:16	59
26/4/2016 0:21	58
26/4/2016 0:26	60
26/4/2016 0:31	56
26/4/2016 0:36	55
26/4/2016 0:41	63
26/4/2016 0:46	56
26/4/2016 0:51	46
26/4/2016 0:56	51
26/4/2016 1:01	63
26/4/2016 1:06	63
26/4/2016 1:11	56
26/4/2016 1:16	62
26/4/2016 1:21	62
26/4/2016 1:26	63
26/4/2016 1:31	62
26/4/2016 1:36	52
26/4/2016 1:41	62
26/4/2016 1:46	61
26/4/2016 1:51	61
26/4/2016 1:56	62
26/4/2016 2:01	62
26/4/2016 2:06	62
26/4/2016 2:11	63
26/4/2016 2:16	61
26/4/2016 2:21	61
26/4/2016 2:26	61
26/4/2016 2:31	61
26/4/2016 2:36	62
26/4/2016 2:41	62

26/4/2016 2:46	60
26/4/2016 2:51	61
26/4/2016 2:56	61
26/4/2016 3:01	60
26/4/2016 3:06	61
26/4/2016 3:11	63
26/4/2016 3:16	60
26/4/2016 3:21	61
26/4/2016 3:26	60
26/4/2016 3:31	61
26/4/2016 3:36	61
26/4/2016 3:41	61
26/4/2016 3:46	59
26/4/2016 3:51	60
26/4/2016 3:56	60
26/4/2016 4:01	59
26/4/2016 4:06	60
26/4/2016 4:11	59
26/4/2016 4:16	59
26/4/2016 4:21	58
26/4/2016 4:26	60
26/4/2016 4:31	60
26/4/2016 4:36	61
26/4/2016 4:41	61
26/4/2016 4:46	60
26/4/2016 4:51	60
26/4/2016 4:56	60
26/4/2016 5:01	60
26/4/2016 5:06	61
26/4/2016 5:11	61
26/4/2016 5:16	62
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26/4/2016 5:26	61
26/4/2016 5:31	62
26/4/2016 5:36	61
26/4/2016 5:41	62
26/4/2016 5:46	62
26/4/2016 5:51	63
26/4/2016 5:56	63
26/4/2016 6:01	59
26/4/2016 6:06	53
26/4/2016 6:11	62
26/4/2016 6:16	63
26/4/2016 6:21	61
26/4/2016 6:26	64
26/4/2016 6:31	63
26/4/2016 6:36	63
26/4/2016 6:41	64
26/4/2016 6:46	64
26/4/2016 6:51	64
26/4/2016 6:56	65
26/4/2016 23:01	53
26/4/2016 23:06	58
26/4/2016 23:11	53
26/4/2016 23:16	59
26/4/2016 23:21	42
26/4/2016 23:26	53
26/4/2016 23:31	63
26/4/2016 23:36	40
26/4/2016 23:41	52
26/4/2016 23:46	63
26/4/2016 23:51	63
26/4/2016 23:56	52

Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
27/3/2016 12:56	65	27/3/2016 22:01	64	28/3/2016 15:06	67	29/3/2016 20:11	67	31/3/2016 21:16	66	2/4/2016 22:21	65
27/3/2016 13:01	66	27/3/2016 22:06	66	28/3/2016 15:11	65	29/3/2016 20:16	68	31/3/2016 21:21	66	2/4/2016 22:26	66
27/3/2016 13:06	66	27/3/2016 22:11	67	28/3/2016 15:16	66	29/3/2016 20:21	68	31/3/2016 21:26	66	2/4/2016 22:31	65
27/3/2016 13:11	66	27/3/2016 22:16	66	28/3/2016 15:21	67	29/3/2016 20:26	68	31/3/2016 21:31	66	2/4/2016 22:36	65
27/3/2016 13:16	64	27/3/2016 22:21	66	28/3/2016 15:26	67	29/3/2016 20:31	68	31/3/2016 21:36	67	2/4/2016 22:41	65
27/3/2016 13:21	63	27/3/2016 22:26	65	28/3/2016 15:31	66	29/3/2016 20:36	67	31/3/2016 21:41	67	2/4/2016 22:46	66
27/3/2016 13:26	66	27/3/2016 22:31	66	28/3/2016 15:36	67	29/3/2016 20:41	68	31/3/2016 21:46	67	2/4/2016 22:51	65
27/3/2016 13:31	65	27/3/2016 22:36	66	28/3/2016 15:41	67	29/3/2016 20:46	67	31/3/2016 21:51	67	2/4/2016 22:56	67
27/3/2016 13:36	66	27/3/2016 22:41	66	28/3/2016 15:46	66	29/3/2016 20:51	68	31/3/2016 21:56	66	3/4/2016 7:01	63
27/3/2016 13:41	66	27/3/2016 22:46	65	28/3/2016 15:51	67	29/3/2016 20:56	67	31/3/2016 22:01	66	3/4/2016 7:06	62
27/3/2016 13:46	65	27/3/2016 22:51	65	28/3/2016 15:56	66	29/3/2016 21:01	68	31/3/2016 22:06	66	3/4/2016 7:11	61
27/3/2016 13:51	65	27/3/2016 22:56	65	28/3/2016 16:01	67	29/3/2016 21:06	68	31/3/2016 22:11	66	3/4/2016 7:16	62
27/3/2016 13:56	65	28/3/2016 7:01	65	28/3/2016 16:06	66	29/3/2016 21:11	67	31/3/2016 22:16	67	3/4/2016 7:21	71
27/3/2016 14:01	65	28/3/2016 7:06	64	28/3/2016 16:11	67	29/3/2016 21:16	67	31/3/2016 22:21	67	3/4/2016 7:26	64
27/3/2016 14:06	66	28/3/2016 7:11	67	28/3/2016 16:16	66	29/3/2016 21:21	67	31/3/2016 22:26	66	3/4/2016 7:31	59
27/3/2016 14:11	66	28/3/2016 7:16	64	28/3/2016 16:21	66	29/3/2016 21:26	67	31/3/2016 22:31	66	3/4/2016 7:36	62
27/3/2016 14:16	66	28/3/2016 7:21	64	28/3/2016 16:26	67	29/3/2016 21:31	66	31/3/2016 22:36	66	3/4/2016 7:41	64
27/3/2016 14:21	65	28/3/2016 7:26	64	28/3/2016 16:31	67	29/3/2016 21:36	67	31/3/2016 22:41	66	3/4/2016 7:46	64
27/3/2016 14:26	66	28/3/2016 7:31	64	28/3/2016 16:36	67	29/3/2016 21:41	67	31/3/2016 22:46	66	3/4/2016 7:51	64
27/3/2016 14:31	66	28/3/2016 7:36	64	28/3/2016 16:41	67	29/3/2016 21:46	67	31/3/2016 22:51	66	3/4/2016 7:56	64
27/3/2016 14:36	67	28/3/2016 7:41	64	28/3/2016 16:46	67	29/3/2016 21:51	67	31/3/2016 22:56	67	3/4/2016 8:01	64
27/3/2016 14:41	66	28/3/2016 7:46	66	28/3/2016 16:51	67	29/3/2016 21:56	69	1/4/2016 19:01	68	3/4/2016 8:06	65
27/3/2016 14:46	65	28/3/2016 7:51	65	28/3/2016 16:56	67	29/3/2016 22:01	67	1/4/2016 19:06	67	3/4/2016 8:11	65
27/3/2016 14:51	66	28/3/2016 7:56	65	28/3/2016 17:01	66	29/3/2016 22:06	67	1/4/2016 19:11	67	3/4/2016 8:16	64
27/3/2016 14:56	67	28/3/2016 8:01	64	28/3/2016 17:06	67	29/3/2016 22:11	67				

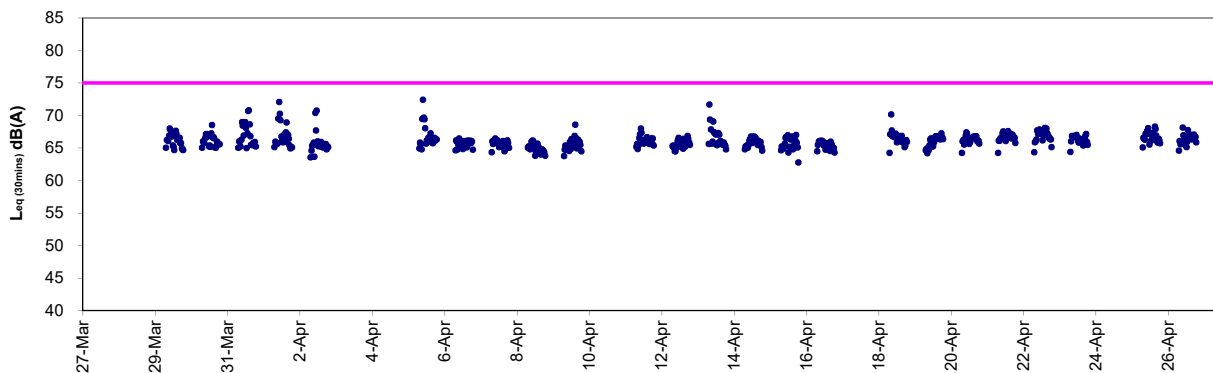
Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
11/4/2016 4:41	59	12/4/2016 5:46	61	13/4/2016 6:51	68	14/4/2016 23:56	66	16/4/2016 1:01	66	17/4/2016 2:06	64
11/4/2016 4:46	57	12/4/2016 5:51	63	13/4/2016 6:56	67	15/4/2016 0:01	66	16/4/2016 1:06	66	17/4/2016 2:11	63
11/4/2016 4:51	61	12/4/2016 5:56	63	13/4/2016 23:01	67	15/4/2016 0:06	65	16/4/2016 1:11	66	17/4/2016 2:16	63
11/4/2016 4:56	60	12/4/2016 6:01	64	13/4/2016 23:06	67	15/4/2016 0:11	65	16/4/2016 1:16	65	17/4/2016 2:21	63
11/4/2016 5:01	59	12/4/2016 6:06	64	13/4/2016 23:11	67	15/4/2016 0:16	65	16/4/2016 1:21	65	17/4/2016 2:26	63
11/4/2016 5:06	61	12/4/2016 6:11	65	13/4/2016 23:16	67	15/4/2016 0:21	65	16/4/2016 1:26	65	17/4/2016 2:31	63
11/4/2016 5:11	60	12/4/2016 6:16	65	13/4/2016 23:21	67	15/4/2016 0:26	65	16/4/2016 1:31	66	17/4/2016 2:36	64
11/4/2016 5:16	61	12/4/2016 6:21	66	13/4/2016 23:26	67	15/4/2016 0:31	66	16/4/2016 1:36	66	17/4/2016 2:41	62
11/4/2016 5:21	61	12/4/2016 6:26	67	13/4/2016 23:31	67	15/4/2016 0:36	65	16/4/2016 1:41	65	17/4/2016 2:46	64
11/4/2016 5:26	63	12/4/2016 6:31	67	13/4/2016 23:36	67	15/4/2016 0:41	63	16/4/2016 1:46	65	17/4/2016 2:51	64
11/4/2016 5:31	63	12/4/2016 6:36	67	13/4/2016 23:41	66	15/4/2016 0:46	65	16/4/2016 1:51	65	17/4/2016 2:56	62
11/4/2016 5:36	62	12/4/2016 6:41	68	13/4/2016 23:46	67	15/4/2016 0:51	65	16/4/2016 1:56	65	17/4/2016 3:01	62
11/4/2016 5:41	64	12/4/2016 6:46	67	13/4/2016 23:51	66	15/4/2016 0:56	64	16/4/2016 2:01	65	17/4/2016 3:06	62
11/4/2016 5:46	65	12/4/2016 6:51	67	13/4/2016 23:56	67	15/4/2016 1:01	64	16/4/2016 2:06	65	17/4/2016 3:11	63
11/4/2016 5:51	63	12/4/2016 6:56	67	14/4/2016 0:01	66	15/4/2016 1:06	64	16/4/2016 2:11	65	17/4/2016 3:16	64
11/4/2016 5:56	65	12/4/2016 23:01	66	14/4/2016 0:06	67	15/4/2016 1:11	64	16/4/2016 2:16	63	17/4/2016 3:21	62
11/4/2016 6:01	65	12/4/2016 23:06	66	14/4/2016 0:11	69	15/4/2016 1:16	62	16/4/2016 2:21	65	17/4/2016 3:26	60
11/4/2016 6:06	65	12/4/2016 23:11	67	14/4/2016 0:16	66	15/4/2016 1:21	63	16/4/2016 2:26	65	17/4/2016 3:31	62
11/4/2016 6:11	65	12/4/2016 23:16	66	14/4/2016 0:21	65	15/4/2016 1:26	61	16/4/2016 2:31	64	17/4/2016 3:36	60
11/4/2016 6:16	66	12/4/2016 23:21	67	14/4/2016 0:26	66	15/4/2016 1:31	61	16/4/2016 2:36	64	17/4/2016 3:41	61
11/4/2016 6:21	66	12/4/2016 23:26	66	14/4/2016 0:31	65	15/4/2016 1:36	63	16/4/2016 2:41	62	17/4/2016 3:46	63
11/4/2016 6:26	67	12/4/2016 23:31	67	14/4/2016 0:36	65	15/4/2016 1:41	62	16/4/2016 2:46	64	17/4/2016 3:51	62
11/4/2016 6:31	69	12/4/2016 23:36	66	14/4/2016 0:41	65	15/4/2016 1:46	63	16/4/2016 2:51	64	17/4/2016 3:56	59
11/4/2016 6:36	68	12/4/2016 23:41	67	14/4/2016 0:46	64	15/4/2016 1:51	61	16/4/2016 2:56	64	17/4/2016 4:01	62
11/4/2016 6:41	68	12/4/2016 23:46	65	14/4/2016 0:51	65	15/4/2016 1:56	62	16/4/2016 3:01	63	17/4/2016 4:06	63
11/4/2016 6:46	69	12/4/20									

Real-time Noise Data	RTN4 (Causeway Bay Community Centre)
25/4/2016 1:41	63
25/4/2016 1:46	60
25/4/2016 1:51	61
25/4/2016 1:56	60
25/4/2016 2:01	58
25/4/2016 2:06	56
25/4/2016 2:11	57
25/4/2016 2:16	55
25/4/2016 2:21	55
25/4/2016 2:26	56
25/4/2016 2:31	52
25/4/2016 2:36	57
25/4/2016 2:41	52
25/4/2016 2:46	60
25/4/2016 2:51	53
25/4/2016 2:56	56
25/4/2016 3:01	61
25/4/2016 3:06	55
25/4/2016 3:11	55
25/4/2016 3:16	54
25/4/2016 3:21	61
25/4/2016 3:26	58
25/4/2016 3:31	56
25/4/2016 3:36	58
25/4/2016 3:41	58
25/4/2016 3:46	55
25/4/2016 3:51	50
25/4/2016 3:56	58
25/4/2016 4:01	61
25/4/2016 4:06	60
25/4/2016 4:11	56
25/4/2016 4:16	58
25/4/2016 4:21	57
25/4/2016 4:26	61
25/4/2016 4:31	54
25/4/2016 4:36	61
25/4/2016 4:41	58
25/4/2016 4:46	56
25/4/2016 4:51	61
25/4/2016 4:56	59
25/4/2016 5:01	59
25/4/2016 5:06	61
25/4/2016 5:11	56
25/4/2016 5:16	60
25/4/2016 5:21	62
25/4/2016 5:26	63
25/4/2016 5:31	62
25/4/2016 5:36	65
25/4/2016 5:41	64
25/4/2016 5:46	63
25/4/2016 5:51	66
25/4/2016 5:56	65
25/4/2016 6:01	64
25/4/2016 6:06	65
25/4/2016 6:11	66
25/4/2016 6:16	66
25/4/2016 6:21	67
25/4/2016 6:26	68
25/4/2016 6:31	68
25/4/2016 6:36	69
25/4/2016 6:41	68
25/4/2016 6:46	69
25/4/2016 6:51	69
25/4/2016 6:56	69
25/4/2016 23:01	67
25/4/2016 23:06	68
25/4/2016 23:11	67
25/4/2016 23:16	67
25/4/2016 23:21	67
25/4/2016 23:26	67
25/4/2016 23:31	66
25/4/2016 23:36	66
25/4/2016 23:41	67
25/4/2016 23:46	66
25/4/2016 23:51	67
25/4/2016 23:56	66
26/4/2016 0:01	65
26/4/2016 0:06	66
26/4/2016 0:11	66
26/4/2016 0:16	66
26/4/2016 0:21	66
26/4/2016 0:26	66
26/4/2016 0:31	66
26/4/2016 0:36	65
26/4/2016 0:41	65
26/4/2016 0:46	64
26/4/2016 0:51	64
26/4/2016 0:56	65
26/4/2016 1:01	64
26/4/2016 1:06	65
26/4/2016 1:11	64
26/4/2016 1:16	62
26/4/2016 1:21	64
26/4/2016 1:26	63
26/4/2016 1:31	63
26/4/2016 1:36	65
26/4/2016 1:41	62
26/4/2016 1:46	61
26/4/2016 1:51	62
26/4/2016 1:56	60
26/4/2016 2:01	62
26/4/2016 2:06	62
26/4/2016 2:11	64
26/4/2016 2:16	60
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26/4/2016 2:31	60
26/4/2016 2:36	62
26/4/2016 2:41	62

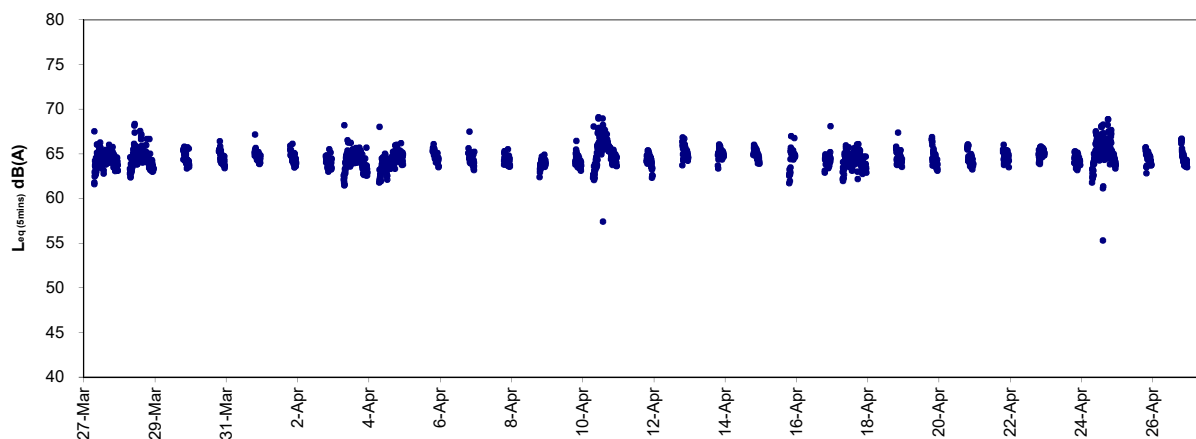
26/4/2016 2:46	62
26/4/2016 2:51	59
26/4/2016 2:56	62
26/4/2016 3:01	58
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26/4/2016 3:16	59
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26/4/2016 6:11	66
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26/4/2016 6:21	67
26/4/2016 6:26	68
26/4/2016 6:31	68
26/4/2016 6:36	68
26/4/2016 6:41	69
26/4/2016 6:46	69
26/4/2016 6:51	69
26/4/2016 6:56	69
26/4/2016 23:01	66
26/4/2016 23:06	67
26/4/2016 23:11	67
26/4/2016 23:16	68
26/4/2016 23:21	67
26/4/2016 23:26	67
26/4/2016 23:31	66
26/4/2016 23:36	67
26/4/2016 23:41	66
26/4/2016 23:46	66
26/4/2016 23:51	66
26/4/2016 23:56	66

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

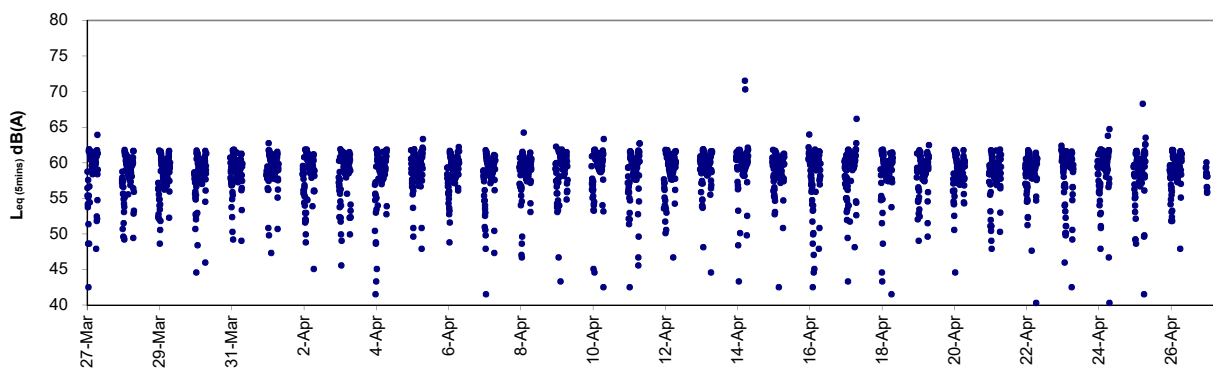
Day Time (0700 -1900 hrs on normal weekdays)



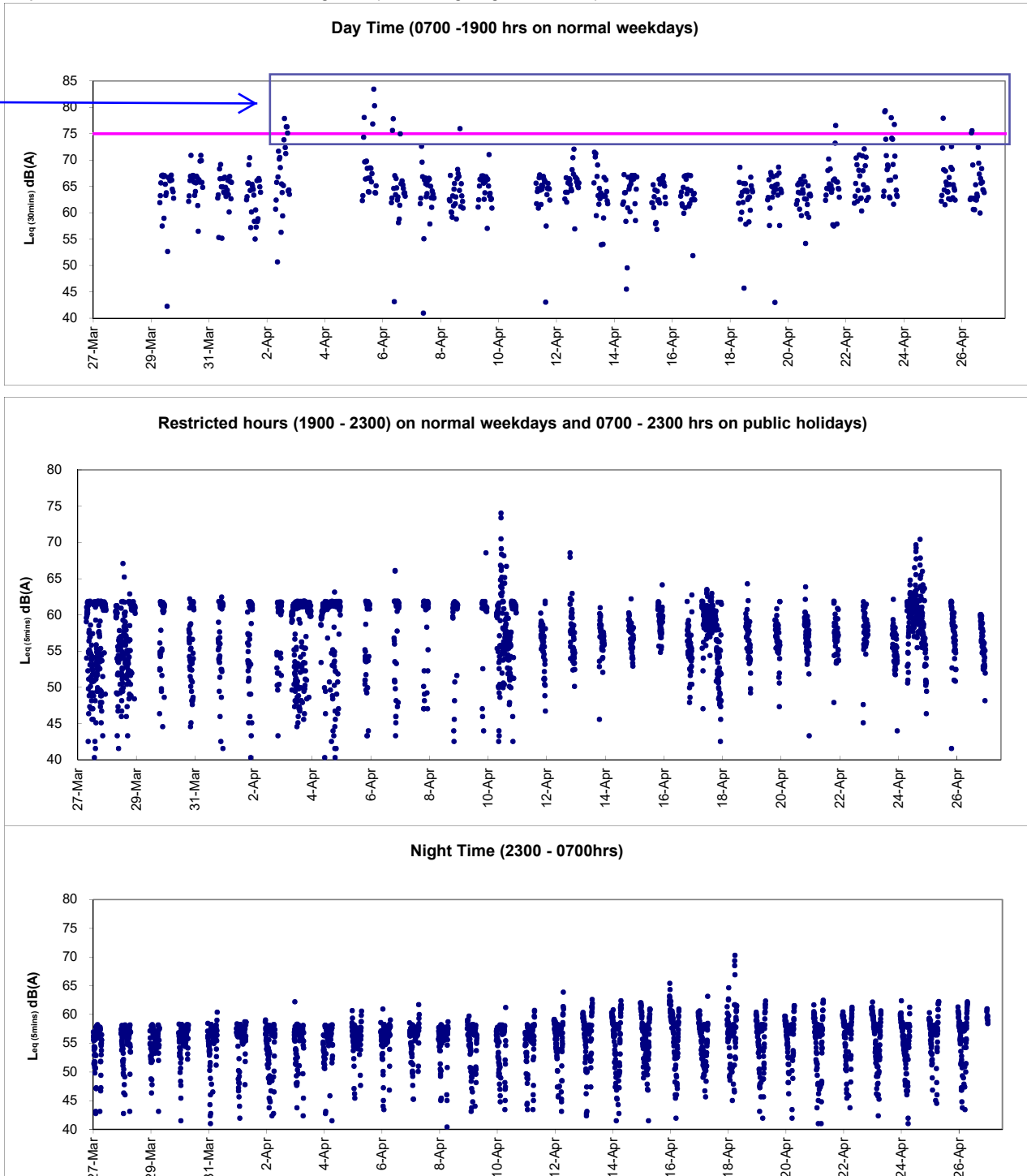
Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays)



Night Time (2300 - 0700hrs)

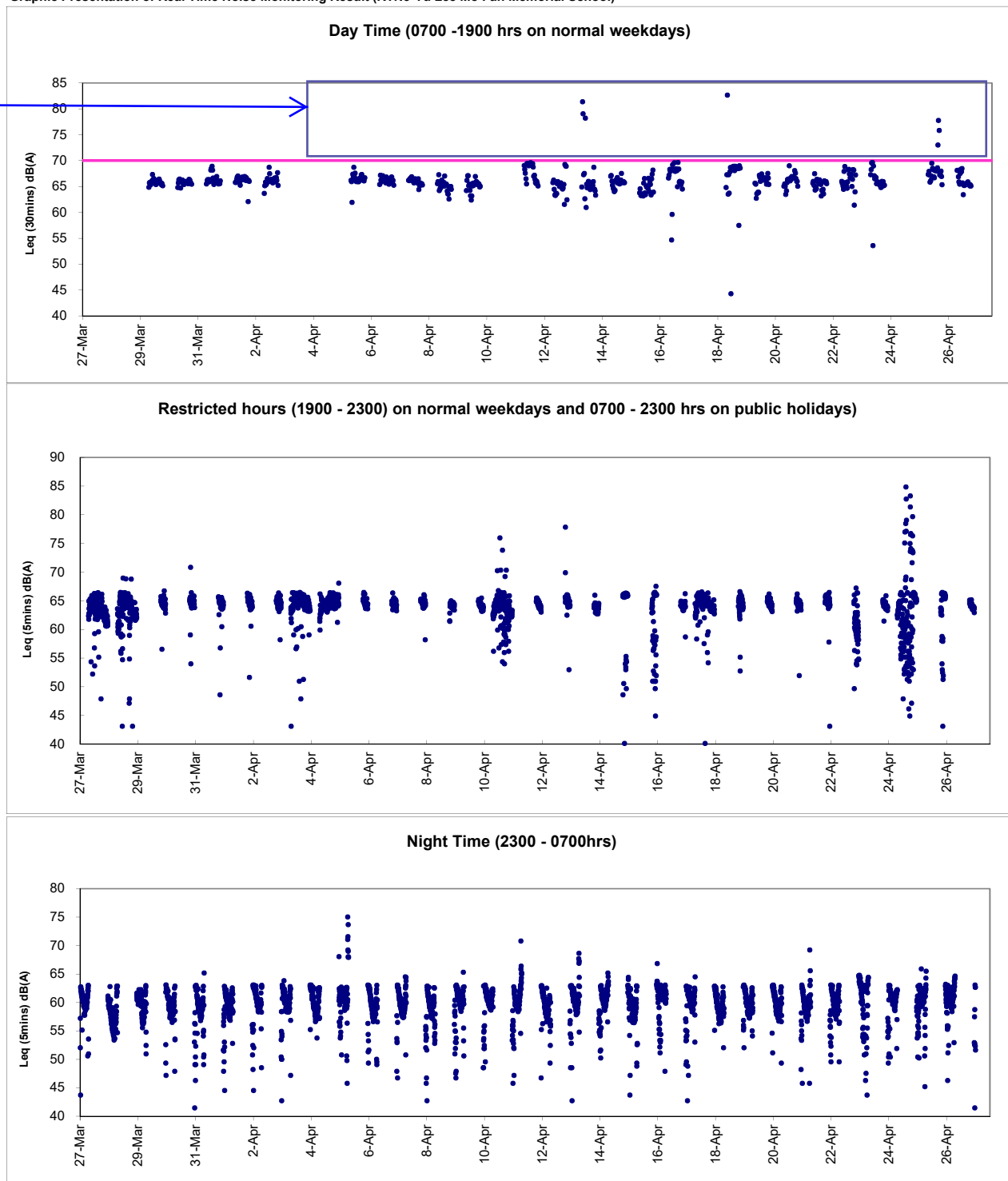


Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)



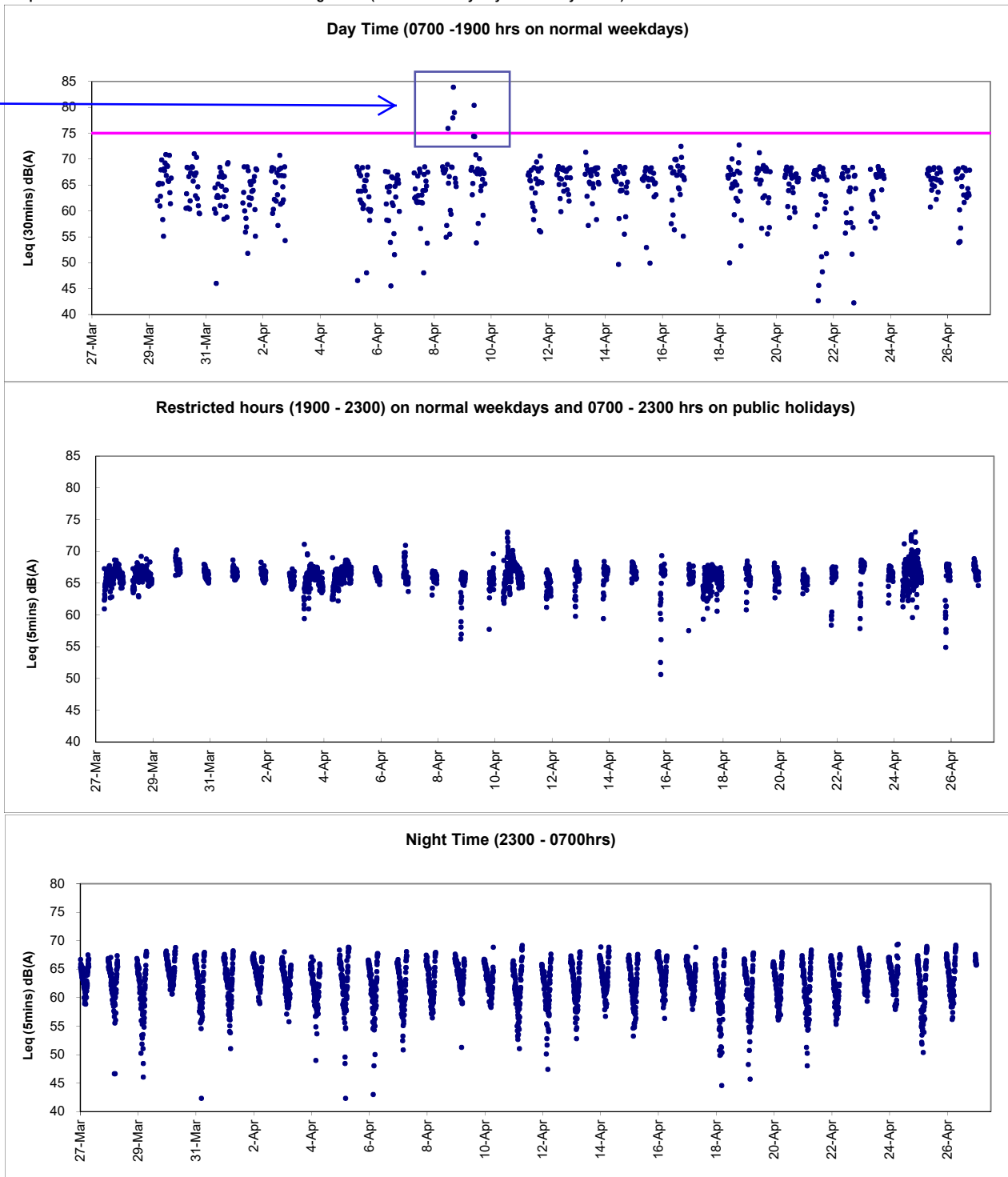
On 02, 05 and 06 April 2016, only installation of pre-cast parapet, pipe laying works and concreting of blinding layer for pipe laying were undertaken by Contract HY/2009/19, no major noise concern of the works was considered. On 08 April 2016, excavation and backfilling works and erection of concrete surround was conducted and no major noise concern was considered for the works. On 23 April 2016, backfilling works and concreting for manhole cover were conducted and no major noise concern was considered for the works. On 21, 25 and 26 April 2016, concreting and excavation for drain pipe was conducted and no major noise concern was considered for the works. No construction works was undertaken under Contract HY/2011/08 on 02, 05, 06, 08, 21, 23 April 2016. On 25 April 2016, site formation with one excavator in operation and on 26 April 2016, manual rebar installation with coupler was conducted and no major noise concern was considered for the above works. Nevertheless, roof top water proofing works by non-CWB Contractor was undertaken immediately next to the noise monitoring station across the monitoring period across April 2016 and was considered as major noise contribution. As such, the exceedances were considered as non-Project related.

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



On 13, 18 and 25 April 2016 during the monitoring period, no construction works was undertaken under Contract HY/2009/19. Nevertheless, based on relevant data from Hong Kong observatory, adverse weather condition with significant rainfall was recorded on 13, 18 and 25 April 2016 and thunderstorm warning signal was hoisted on 13 and 25 April 2016 and considered as the major noise contribution. As such, the exceedances were considered as non-project related.

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



On 8 April 2016, minor vertical face drilling works was conducted and on 09 April 2016 crosshead concreting was conducted under HY/2009/19. In view of the same construction sequence of vertical face drilling was extended to other time period with no noise emanation recorded and drilling works immediately next to the monitoring station by non-CWB Contractor for external panel installation at Causeway Bay Community Centre was conducted on the monitoring date, the exceedances were considered as non- Project related.



Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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



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_16A002	14-Apr-16	8:00	CMA5b- Pedestrian Plaza	492.5	1 hr TSP (ug/m ³)	332.0	500	Possible reason: Elevated TSP level in relate to local ambient condition around monitoring station Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures. Mitigation measures including maintaining haul road in dampened condition was implemented by contractor. Remarks / Other Obs: Despite formwork erection and internal transfer of excavated material were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road and excavated soil maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition. In addition, non WDII-CWB Project construction activities opposite to the monitoring station was observed on the monitoring date. Nevertheless, the Contractor of HK/2012/08 was reminded to maintain regularly dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.
X_16A003	14-Apr-16	8:00	CMA5b- Pedestrian Plaza	492.5	1 hr TSP (ug/m ³)	332.0	500	Possible reason: Elevated TSP level in relate to local ambient condition around monitoring station Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures. Remarks / Other Obs: Only work activities within tunnel section and no construction activities at ground was undertaken on the monitoring date around Pedestrian Plaza under Contract HK/2009/01 and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-Project related and contributed by local ambient condition. In addition, non WDII-CWB Project construction activities opposite to the monitoring station was observed on the monitoring date. Nevertheless, the Contractor of HK/2009/01 was reminded to maintain regular dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_16N0022	29-Mar-16	15:00	M1a-Habour Road Sports Centre	83	Leq(30-min)	when one documented complaint was received.	75	Possible reason: Operation of multiple air compressors and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor. Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Remarks / Other Obs: Diaphragm wall construction at Portion 5 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while operation of multiple air compressors at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre immediately opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.
X_16N023	29-Mar-16	15:00	M1a-Habour Road Sports Centre	83	Leq(30-min)	when one documented complaint was received.	75	Possible reason: Operation of multiple air compressors and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor. Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Remarks / Other Obs: Despite breaking works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement, mitigation measures including the use of acoustic covering was provided to the breaker. In addition, operation of multiple air compressors at Ex-Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre immediately opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.
X_16N025	11-Apr-16	10:17	M6 - HK Baptist Church Henrietta Secondary School	67	Leq(30-min)	when one documented complaint was received.	65	Possible reason: Traffic nearby was observed during monitoring and was considered as the major noise contribution. Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Remarks / Other Obs: Only welding work was conducted under Contract HY/2009/19 at Pier F8C during the time of measurement and it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.
X_16N0026	12-Apr-16	10:32	M1a-Habour Road Sports Centre	79	Leq(30-min)	when one documented complaint was received.	75	Possible reason: Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor. Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Remarks / Other Obs: Diaphragm wall construction at Portion 5 was conducted under Contract HK/2009/02 around the concerned location during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre immediately opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_16N027	12-Apr-16	10:32	M1a-Habour Road Sports Centre	79	Leq(30-min)	when one documented complaint was received.	75	Possible reason: Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor. Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Remarks / Other Obs: Welding and backfilling works were conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre immediately opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.
X_16N029	19-Apr-16	15:00	M6 - HK Baptist Church Henrietta Secondary School	66	Leq(30-min)	when one documented complaint was received.	65	Possible reason: Traffic nearby was observed during monitoring and was considered as the major noise contribution. Action taken / to be taken: Repeated measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Remarks / Other Obs: Only welding and concrete pouring works were conducted under Contract HY/2009/19 at Pier F8C during the time of measurement and it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.



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 complaint at night-time. 3) Follow-up action had been taken by contractor that switches off all non-essential lights to minimized nuisance to the nearby residents. The complainant satisfied to the practice and no further complaint was received after that.	Closed
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1	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/2009/11 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse come from sea bed from entering the intake. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying 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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		LCSD complained via Contractor Complaint Hotline		site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	• 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	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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 IFCII's management office complained via hotline 1823	Central	A visual impact complaint from hotline 1823 was received by ET on 9 January 2011 (ICC Ref. No.: ICC#1-333037096 dated on 12 December 2011). The complaint, Mr Tsui was reported that visual nuisance caused by lighting in the construction site during night time.	1) RSS notified ET on 9 Jan 2012. 2) ET confirmed with the Resident Site Staff that A joint inspection was conducted by Mr Tsui and contractor on that night to see whether there is any improvement. 3) Due to safety reason, igniting 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 complaint. 4) Confirmed with the Resident Site Staff the complainant was satisfied the new arrangement of the lights with contractor after the joint inspection. No further complaint received after that.	Closed
111220	20/12/2011	The complainant, Ms. Poon complained via hotline 1823 (ICC Ref. No.: ICC#1-334683841)	North Point	Construction air and noise nuisance generated that many trucks carrying construction materials driving along Watson Road and Oil Street and possibly entering/leaving the construction site near the IEC during 0800 to 1900 hours.	1) RSS notified ET on 22 Dec 2011. 2) ET confirmed with the Resident Site Staff that the complainant cannot identify whether the trucks were working under the CWB project or not. 3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and Waston Road, however, this is the public road for all 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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received after that.	
111230	30/12/2011	Residents of Harbour Heights	North Point	Construction air and noise nuisance generated by construction vehicles were found parked illegally at King Wah 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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					by contractor on 19 January 2012. 4) No further complaint received after HyD's reply.	
120305	03/03/2012	Resident of Harbour Heights complained via hotline 1823 (ICC Ref. No.: ICC#1-344632511)	North Point	A complaint regarding excessive noise from construction sites of CWB was observed outside Harbour Heights from Monday to Saturday before 8am. The plants were frequently turned on before 7:30am creating nuisance. The complainant requested a speedy follow-up and reply from relevant department.	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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					2012 via 1823. HyD replied that the current 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.	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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130308	06/03/2013	ICC Case#1-407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	1) RSS notified ET on 8 March 2013 2) ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. 3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contractor was advised and committed to implement preventive measures to minimize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequate back up stock of silt curtain for emergency use.	Closed



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130611	30 May 2013 and 1 June 2013	EPD Ref.:H04/RS/0001 1587-13	Area near Central Pier	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.	1) RSS notify ET on 11 June 2013 2) ET confirmed with the Resident Site Staff that According the information confirmed by RSS, major noise generating construction activities undertaken at works area near Central Pier during the concerned time include - Breaking up existing D-wall concrete and excavation at portion 4B and 4C - Sheet piling works at Portion VI (Man Kat Street) 3) Total 1 no. of Backhoe with breaker, 1 no. of Backhoe with vibratory hammer and 4 no.s of pneumatic breakers were deployed for the above construction activities. Reviewing the noise monitoring data at monitoring stations (M7e- 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. In addition, weekly environmental site inspection was conducted on 30 May 2013 at around 10:00. According to the inspection record, no particular observation regarding noise impact was recorded and the mitigation measures including erection of of temporary noise barrier was observed in place. As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified. 4) ET recommend the contractor to review the need of additional noise mitigation measures to further reduce the noise enmated during construction works for pier side public area.	Interim report submitted to EPD on 19 June 2013, EPD advised no further comment on 5 Aug 2013and final report for case closing submitted on 6 Aug 2013.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131010	03 Oct 2013	ICC Ref: No.1-467000768	Area between Central Pier and International Finance Centre	Noise and air quality impact was experienced at the area located between IFC and Central Pier during peak hours.	ET confirmed with the Resident Site Staff that 1) The major construction activities at the concerned location conducted over the past three months include; - Formwork, rebar and concreting - Backfilling - Water-proofing - Scaffolding erection 2) Mitigation measures implemented by the Contractor for the above construction works include - Select quiet plant and work methods; - Check plant and equipment for condition; - For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions; - Frequently spray water to major haul road and stockpiles to suppress dust generation; and - Cover stockpiles with impervious sheets The construction activities including backfilling, concreting and other 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. 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.	Closed



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					According to the relevant site records, from 1900-0000hrs on 21 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating at the above period. From 0000 to 0700 hrs on 22 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were found operating at the above period. After reviewing relevant photo records and information verified by RSS and the Construction Noise Permit (CNP) no.GW-RS1384-13, it was considered that several conditions of CNP GW-RS1384-13 were not fulfilled by the Contractor in particular for the item(s) below, No acoustic installation was provided for the relevant PME(s) used as stated in CNP condition 3.d.during the concerned concreting works. From 1900 to 2300 hours on 21 Jan 2014, the PME(s) used on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13. From 0000 to 0700 hours on 22 Jan 2014, the PME(s) used by the Contractor on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13. From 1900 to 2300 hours on 21 Jan 2014 and from 0000 to 0700 hours on 22 Jan 2014, PME (Concrete Lorry Mixer) was deployed by the Contractor without barge enclosure and was unable to comply with condition 3.a. in CNP no.GW-RS1384-13.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140127	24 Jan 2014	ICC Case Ref.: 1-494612639	Works area adjacent to the Victoria Park Bowling Green	Noise generated from piling works conducted at the works area adjacent to the Victoria Park Bowling Green have created nuisance to the Bowling Green users.	ET confirmed with the Resident Site Staff that The major construction activities around the concerned location conducted on 23 Jan 2014 include: Pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works on 23 Jan 2014. Splicing of sheetpile Ch.275-285 (LHS) for ELS works on 23 Jan 2014. Mitigation measures implemented by the Contractor for the above construction works include: Installation of acoustic panels along hoarding line at East Bowling Green; Installation of addition noise barriers on top of hoarding at East Bowling Green; Display of publicity notices along hoarding line; and No noisy work shall be carried out at the areas adjoining East Bowling Green as if there is any Bowling Green competition event to be held (i.e. Saturday afternoon). According to relevant site records, pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works and splicing of sheetpile Ch.275-285 (LHS) for ELS works were conducted at the concerned location during the time of complaint. 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	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
					East Bowling Green when there is any Bowling Green competition event to be held. Follow-up investigation was conducted on 29 Jan 2014 during weekly environmental inspection, noise mitigation measures including noise barriers and acoustic panels were confirmed in place and maintained in good condition. According to previous environmental inspections recorded in Jan 2014, no particular observation regarding the noise impact was recorded. As such, no non-conformity was identified.	
140311	27 Feb 2014	EPD Complaint Case (Ref:H04/RS/00 04232-14) received by ET on 11 March 2014	Central IFC Area	Excessive noise (from the operation of compressors, other heavy machinery and concrete breaking) was emanated from the construction site near IFC in daytime on 27 Feb 2014.	ET confirmed with the Resident Site Staff that The major construction activities at the concerned location conducted on 27 Feb 2014 (Daytime) include: Backfilling works between north wall and sheetpiles and for roof slab; Site hoarding removal; Formwork erection and removal works, falsework erection; Concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner; Concreting works for profile barrier inside cut and cover tunnel; and Rebar fixing works and WVB basement remediation works. Mitigation measures implemented by the Contractor for the above construction works include: Use of quiet plants (air compressor with a Noise Emission Label of 99 dB(A)).	Interim report submitted to EPD on 18 March 2014, EPD advised no further comment on 26 March 2014 and final report for case closing issued on 26 March 2014



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



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20140801	30 July 2014	ICC complaint (ICC Case Ref.: 2-360638977) 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	A public complaint regarding construction noise impact referred by RSS was received by ET on 01 Aug 2014 (ICC Case Ref.: 2-360638977 dated 31 July 2014). The complainant reported that at 01:20hrs on 30 July 2014, the complainant was woken up by the noise of sand and gravel movements at area opposite to the Harbour Heights. ET confirmed with the Resident Site Staff that EVB excavation was undertaken at the works area around Watson Road under HY/2009/19 before 23:00hrs on 29 July 2014. (Total 1 no. of excavator, 1 no. of dump truck, 23 nos. of underground dewatering pump and 3 nos. of generator were in operation). Dewatering works was undertaken at works area around Watson Road under HY/2009/19 from 23:00hrs on 29 July 2104 to 01:00 hrs on 30 July 2014. (Total 23 nos. of underground dewatering pumps and 1 no. of generator were in operation). Mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. (1 no. of excavation machine and 1 no. of dump truck were in operation). No other construction activity or operation was performed at the area opposite to Harbour Heights from 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014 under HY/2009/19. 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	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
					above period). From around 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014, dewatering works at works area around Watson Road was conducted under HY/2009/19. Total 23 nos. of dewatering pumps were operating at the above period. In addition, mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. Total 1 no. of excavation machine and 1 no. of dump truck were in operation. After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0152-14, it was considered the below condition of CNP GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19. From around 00:45hrs to 01:30hrs on 30 July 2014, the operation of PME(s) (1 no. of excavator and 1 no. of dump truck) under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0152-14. Notwithstanding the above, according to the information provided by the RSS, the excavator and dump truck were mobilized away from the edge of the temporary ELS structure towards the area opposite to the Harbour Heights after 23:00hrs under safety consideration. The Contractor of HY/2009/19 was advised to review the arrangement and location for retaining and securing PME(s)/ plants to minimize the movements of PME or plants after completion of works such that the Construction Noise Permit would be followed.	



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance 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. The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable. Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance 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.	



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance 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. The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable. Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance 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.	



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation. From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation. In view of the above findings, no direct information associated with the noise concern was considered available.	
20141108	07 Nov 2014	EPD complaint (EPD Ref.: H05/RS/00027 815-14) received by ET on 10 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014). The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool. ET confirmed with the Resident Site Staff that ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	Interim investigation report submitted to EPD on 17 November 2014. EPD advised no comment on the interim report and case closed on 1 Dec 2014.



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					Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier) Total 1 no. of dredger, 1 no. of hopper and 1 no. of tug boat were operated. According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on-site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site. Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	



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



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20150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public. ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW; reclamation/ backfilling works at TPCWAW Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.	Interim report submitted to EPD on 9 February 2015, EPD advised no comment on 27 February 2015 on the interim report submitted and case closed.



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					Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place. In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public. ET confirmed with the Resident Site Staff that the major construction activities under Contract HK/2009/02 around the concerned location conducted on 21 January 2015 include trenching grabbing for D-wall construction at temporary road eastward, shear pin installation at temporary road westward and ground Investigation drilling at temporary road westward	



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



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					In addition, it was noted that a section of the works area at the concerned location was not provided with site hoarding. Based on further review on relevant records it was noted that the works area at concerned section was either hard paved or have to maintain adequate line of sight due to traffic safety consideration. The Contractor of HK/2009/02 was advised to inform EPD with respect to the site constraint and provide relevant updated meeting records on the arrangement for review. In view of the public concern, the contractor has committed to conduct additional cleaning of the concerned public road section once a week to minimize potential nuisance caused to nearby road users. The contractor was also reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
20150409	07 April 2015 09 April 2015	EPD complaint (Ref.:H05/RS/00008074-15 dated 9 April 2015) received by ET on 09 April 2015	Construction site exit near Expo Drive Central; Construction site gate V2 & gate V8	Construction dust was generated from lorries transporting out of the construction via site exit without wheel washing	A public complaint regarding construction dust impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/00008074-15 dated 9 April 2015). The complainant reported that: Construction dust was generated from lorries transporting out of the construction via site exit near Expo Drive Central without wheel washing at the morning of 7 April 2015. Lorries were also found transporting out of the construction site via gates V2 and V8 without wheel washing and causing dust nuisance at about 10:30 hours on 9 April 2015. 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.	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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					2. On 9 April 2015, major vehicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01. Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include water hose was provided for wheel washing at Gate V2 and Gate V8, concrete paving at site exit, dump truck fitted with mechanic cover and cleaned before leaving construction site, regular street washing at Expo Drive Central. According to the relevant site records under Contract HK/2009/01, on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central under Contract HK/2009/01 while on 9 April 2015 major 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. At the above locations, mitigation measures including water hose for wheel washing at Gate V2 and Gate V8; concrete paving at site exit; dump truck fitted with mechanic cover and cleaned before leaving construction site and regular street washing at Expo Drive Central were generally adopted by the Contractor of HK/2009/01. In view of the public concern on the complaint date, the Contractor of HK/2009/01 was advised to conduct cleaning at the concerned site exit point and the section of public road adjoining the site exit to clear any residue grit and silt desposit to avoid further dust impact.	



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					Follow up inspection was conducted on 16 April 2015 during weekly environmental inspection and mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place. The construction site exit was observed clear from residue silt / grit at the concerned location. In view of the public concern, the contractor was advised to conduct training to the construction site workers to enhance the effectiveness of wheel washing and to ensure proper wheel washing is provided for dump truck and other vehicle prior to leaving the construction site to avoid generating any dust nuisance.	
20150409A	03 April 2015 to 07 April 2015	EPD complaint (Ref.:H05/RS/00007861-15 dated 9 April 2015) received by ET on 09 April 2015	Construction site at Convention Avenue near Renaissance Harbour View Hotel	Construction noise was emanated from the construction site at Convention Avenue near Renaissance Harbour View Hotel during the period of Easter Holiday	A public complaint regarding construction noise impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/00007861-15 dated 9 April 2015). The complainant reported that construction noise was emanated from the construction site at Convention Avenue near Renaissance Harbour View Hotel during the period of Easter Holiday, including April 3 at about 13:00 hours. ET confirmed with the Resident Site Staff that from 3 April 2015 to 7 April 2015, from 08:00 hours to 18:00 hours, and at about 13:00 hours on 3 April 2015 at area CWB Tunnel Stage 3, backfilling works was conducted under HK/2009/01. Either 1 no. of dump truck and 1. no. of excavator was operated on site at each given time during the concerned period. According to the relevant site records under Contract HK/2009/01, from across 08:00hrs to 18:00hrs during the period from 3 April 2015 to 7 April 2015, backfilling works was conducted under Contract HK/2009/01 at CWB Tunnel Stage 3. Either 1 no. of dump truck and 1 no. of excavator was operated on site at each given time during the	Interim report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					concerned period and the relevant Construction Noise Permit GW-RS0104-15 for the works was in place and the same construction activity was undertaken at around 13:00hrs on 3 April 2015. No other concurrent construction activity was undertaken at the concerned location during the concerned period under Contract HK/2009/01. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. Nevertheless, in view of the concern regarding the noise nuisance raised by the public at the concerned location, it is considered desirable for the Contractor of HK/2009/01 to review the truck unloading procedures of the specific construction task to minimize potential noise emanated during the course for work.	
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	Unnecssary light nuisance from the construction site	A public complaint regarding visual impact received by the RSS was referred to the ET on 15 April 2015 (ICC Case Ref.: 2-885677297 dated 13 April 2015). The complainant reported that "I live in a building next to Gloucester Road in Causeway Bay. Recently, I am suffering from unnecessary light source from the construction site. The banners of the construction companies are always illuminated with very bright lights." ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08. The concerned lighting for the banners was maintained under Contract HY/2010/08 and the concerned lighting was subsequently switched off at all times since 13 April 2015 to alleviate the lighting nuisance caused to the surroundings.	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	A public complaint regarding construction noise impact referred by EPD was received by ET on 23 April 2015 (EPD Ref.:H05/RS/00009456-15 dated 23 April 2015). The complainant reported that construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel almost every night recently causing nuisance. ET confirmed with the Resident Site Staff that from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation. According to the relevant site records under Contract HK/2009/01, from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation during the concerned period and the relevant Construction Noise Permit GW-RS0269-15 was confirmed in place. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. In view of the potential noise nuisance, a notice to affected parties was issued by the Contractor of Contract HK/2009/01 to the nearby residents including Renaissance Harbour View Hotel on 17 April 2015. Besides, construction works undertaken by other parties at the concerned location was observed at the concerned period.	Final Investigation report issued on 18 May 2015 and case closed



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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	A public complaint regarding construction dust impact referred by EPD was received by ET on 01 June 2015 (EPD Ref.:H05/RS/00013254-15 dated 1 June 2015). The complainant reported that vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel-washed at about 10:33hrs on 29 May 2015. The complainant also alleged that water spraying at the gates V2 and V3 near Expo Drive Central was insufficient causing dust nuisance to the public. ET confirmed with the Resident Site Staff that on 29 May 2015, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3. Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include, water hose was provided for wheel washing at Gate V2 and Gate V3. According to the relevant site records under Contract HK/2009/01, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3 on 29 May 2015 under Contract HK/2009/01. As confirmed by WDII RSS, the concerned construction site Gate V2 and Gate V3 have been closed from 31 May 2015 and formed part of the construction site area. Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were 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.	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.	A public complaint regarding construction noise impact referred by EPD was received by ET on 8 June 2015 (EPD Ref.:H05/RS/00013843-15 dated 8 June 2015). The complainant reported that construction noise was generated from the construction site of Contract HK/2012/08 at location outside Fleet Arcade during restricted hours including Sundays and General Holidays. ET confirmed with the Resident Site Staff that from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 at site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation. According to the relevant site records under Contract HK/2012/08, from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation and the relevant Construction Noise Permit GW-RS0296-15 was confirmed in place. The construction activity conducted under Contract	Interim report submitted to EPD on 16 June 2015 and EPD advised no comment on 20 July 2015 on the interim report submitted and case closed.



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					HK/2012/08 during the concerned period was in compliance with the statutory requirement. Ad-hoc inspection was conducted during weekly environmental inspection on 9 June 2015 and it was noted that Construction Noise Permits under Contract HK/2012/08 were posted at site entrance locations for public inspection. In view of the potential noise nuisance, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance. Besides, other construction sites at the concerned location were observed. Furthermore, a meeting was held on 15 June 2015 between the EPD, Contractor of HK/2012/08, WDII RSS team and the Environmental Team on the public concern and the Contractor of HK/2012/08 has committed to review the re-application for the Construction Noise Permits GW-RS0223-15 and GW-RS0296-15 on usage of PMEs at a portion of site area outside the Fleet Arcade during public holiday including Sundays to minimize for the potential noise nuisance to nearby public.	
150622	18 June 2015	EPD Ref.:H05/RS/0015054-15 dated 22 June 2015	A mooring location near shore and at location outside Wan Chai Sports Ground	Dark smoke and malodour emission was observed from a hopper barge moored near shore and other construction plants under operation from the reclamation construction site	A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.	Interim report submitted to EPD on 29 June 2015 and EPD advised no comment on 20 July 2015 on the interim report submitted and case closed.



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					ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site. According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively. Follow-up inspection was conducted during weekly environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was	



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					observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public.	
150714	11 July 2015	ICC Complaint (Ref:#2-1149562777) referred by RSS was received by ET on 14 July 2015	A portion of site area adjacent to Hing Fat Street Site entrance	Direct discharge of muddy effluent into marine waters	A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 July 2015 (ICC Ref.: #2-1149562777). The complainant reported that: Muddy effluent was directly discharged into nearby marine waters by Chun Wo worker. Further information was received by ET from RSS on 23 July 2015 and the complaint date was clarified to be 11 July 2015 and the concerned vehicle registration number shall be JV 7319. ET confirmed with the Resident Site Staff that no construction works was undertaken by the Contractors HY/2009/19 and adjacent Central WanChai Bypass Project construction site at the concerned location on 11 July 2015. No construction works was undertaken by the Contractor of HY/2009/19 and adjacent Central WanChai Bypass Project construction site at the concerned location on 11 July 2015 and the concerned vehicle (License Plate JV 7319 labelled as Chun Wo) was confirmed not belonging to the Contractor of HY/2009/19. Follow-up inspection was conducted during weekly environmental inspection on 14 July 2015, no direct discharge connection was further observed on site.	Updated Final investigation report submitted on 27 July 2015.



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					No construction works was undertaken by Central WanChai Bypass Project at the concerned location and no sump pit or works area under Central WanChai Bypass Project associated with potential muddy effluent discharge was identified. In addition, a construction area with excavated pit under WSD Contract 12/WSD/10 was noted at the concerned location behind the alleged vehicle responsible for direct discharge of muddy effluent. Based on the further review on the information received on 23 July 2015, the alleged direct discharge was observed originating from the works area under WSD Contract 12/WSD/10 and not related to the Central Wan Chai Bypass Project construction works.	
150723	20 July 2015	EPD Ref.:H05/RS/0018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & 722 Bus stop	Malodour from marine sediment	A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. 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.	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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					Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location. Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during loading of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor. According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between	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
					seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge. The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during	A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08)	Interim report submitted to EPD on 14 September 2015. 2 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.	ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold	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
					and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance. The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public. The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	



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151117	Not specified	EPD complaint received by ET on 17 November 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	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. The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats. Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill. White or greyish effluent was discharged directly into Victoria Harbour marine waters from wastewater treatment plant on construction site. In response to the complaint concern, additional water quality monitoring from end November 2015 to mid January 2016 until the post-diaphragm wall construction activities and all bentonite silos and residue bentonite slurry at TS3 were completely removed had been undertaken by the Environmental Team and additional site inspections	Interim investigation report submitted to EPD on 24 November 2015. 2nd interim investigation report submitted to EPD on 17 December 2015. 3rd interim investigation report submitted to EPD on 31 December 2015. Final investigation report submitted on 5 February 2016.



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



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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	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. ET confirmed with the Resident Site Staff that the noise nuisance was caused by the windblown action of the corrugated metal sheet loosely affixed onto the temporary noise barrier panel above a concrete block footing fronting City Garden. The noise nuisance was caused by the windblown action of the corrugated metal sheet loosely affixed onto the temporary noise barrier panel above a concrete blocking footing fronting City Garden. The concerned corrugated metal sheet was removed by the Contractor of HY/2009/19 on 27 November 2015 to avoid further generation of noise nuisance.	Final investigation report to be issued on 01 December 2015.



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					The Contractor was reminded to check and ensure metal sheetings and other material stored within the construction site are properly affixed to avoid potential noise nuisance due to windblown action.	
EPD complaint case (EPD Ref: H04/RS/00 028924-15 dated 04 December 2015	12 Novemb er 2015	EPD complaint received by ET on 04 December 2015	Two International Finance Centre at Finance Street, Central	Construction dust generated from construction site near Two International Finance Centre	A public complaint regarding construction dust impact referred by EPD was received by ET on 04 December 2015 (EPD Ref: H04/RS/00028924-15). The complainant reported that excessive construction dust was generated from the construction site near Two International Finance Centre at Finance Street, Central ET confirmed with the Resident Site Staff that bridge works and drains/ sewers construction at the concerned location was undertaken by Contract HY/2009/18 on 12 November 2015. A stockpile which would be reused for backfilling was stored at the concerned location by Contract HY/2009/18 on 12 November 2015. Mitigation measures implemented by the Contractor for the above construction works including covering of idled portion of stockpile and dampening of the exposed stockpile was implemented for the stockpile at the concerned location.	1st interim report submitted to EPD on 14 December 2015 2nd interim report submitted to EPD on 4 January 2016 EPD advised no comment on 07 January 2015 on the report submitted and case closed.



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					watering during excavated material handling near the concerned location. Further follow up inspection was conducted on 17 December 2015 and mitigation measures including covering and watering for idle stockpile and material handling were implemented.	
ICC 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	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: Incessant noise emanating from the construction site of the Island Eastern Corridor Link that forms part of the Central-Wanchai Bypass Project. Over the past couple of weeks, there have been loud mechanical pounding at the construction site over the reclaimed area between Blocks 10 and 11 of City Garden. As can be seen, machines have been breaking open the concrete paved on top of the reclaimed area. Work often starts well before 9am on weekdays and, barring a brief period of lull during lunch hours, would often continue unabated untill after 5pm. Although I note that certain noise reduction measures have been put into place (e.g. the erection of flimsy noise barriers around the work area), the noise created is still enormous, and this has become a significant nuisance for residents	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
					living in nearby blocks of our estate, especially children and the elderly who have to stay at home for longer hours. ET confirmed with the Resident Site Staff that concreting breaking works was carried out with one breaker on 7, 9, 11, 12 and 14 December 2015 and the breaking works at the concerned location were completed on 14 December 2015 morning. Noise mitigation measures including temporary noise barriers near the point of breaking and covering the breaker with acoustic mat were provided during the concerned concrete breaking works. According to information confirmed by RSS, concreting breaking works was carried out by one excavator mounted breaker on 7, 9, 11, 12 and 14 December 2015 and the concerned breaking works outside City Garden Block 10 and Block 11 was completed on 14 December 2015 morning. Noise mitigation measures including temporary noise barriers near the point of breaking and covering the breaker with acoustic mat were provided during the concerned concrete breaking works. Based on the further review on the record of the environmental inspection conducted on 09 December 2015, the Contractor of HY/2009/19 was reminded to temporary noise barrier provided for the pile cap demolition shall follow the the Environmental Permit EP-364/2009/D requirement.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow up inspection was conducted during weekly environmental inspection on 17 December 2015, the concerned breaking works opposite to City Garden Block 10 and Block 11 was observed completed while the Contractor was reminded that the remaining section of temporary noise barrier in accordance with the latest 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.	A public complaint regarding construction noise referred by EPD was received by ET on 14 January 2016 (EPD Ref.: H05/RS/00000570-16 dated 14 January 2016). The complainant reported that there was operation of powered mechanical equipment at the construction site near Lung King Street after 1900hrs. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 1900hrs to 2115hrs on 06 January 2016, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one crawler crane was in operation.	Interim investigation report submitted to EPD on 22 January 2016. EPD advised on 17 February no comment on the interim report submitted and case closed.



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					indicating the association with the Contractor of HY/2009/15 is considered available. Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016, no further accumulation of wastewater and no particular blockage of the concerned roadside gully at Hung Hing Road was observed. In addition, no overflow from the roadside sewer was observed. Nevertheless, the Contractor of HY/2009/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.	
EPD complaint case (EPD Case Ref.:H05/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	A public complaint regarding the blockage of public drainage referred by EPD was received by ET on 22 January 2016 (EPD Case Ref.: H05/RS/00001524-16). The complainant reported that construction wastewater from the China State's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water starting from 11 January 2016. ET confirmed with the Resident Site Staff that no construction activities with potential runoff at the main entrance of PRE Office was conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016. Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016. Concreting for construction works at covered Tunnel by using concrete pump at TPCWAE was conducted under Contractor of HY/2009/15 on 13 January 2016 and 16 January 2016. According to relevant site records and information	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
					provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby. Based on relevant site information provided by RSS, no construction activity with potential runoff at the main entrance of PRE Office were conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016 while concreting for seawall reinstatement at TPCWAE were conducted on 12 January 2016 and 18 January 2016 and concreting for construction works at covered Tunnel by using concrete pump at TPCWAE were conducted on 13 January 2016 and 16 January 2016. All construction runoff was pumped to the wastewater treatment facility. In addition, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road. Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016. No further accumulation of wastewater and particular blockage of the concerned roadside gully at Hung Hing Road was observed and no overflow from the roadside sewer was observed. The condition of the construction site exit under HY/2009/15 was generally in order and no particular construction surface runoff was observed. Nevertheless, the Contractor of HY/2009/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.	



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 05206-16 dated 10 March 2016	07 March 2016	EPD complaint received by ET on 10 March 2016	Waterfront at Lung King Street	Construction dust, plant exhaust and construction noise generated from the construction work of Contract HK/2012/08 at waterfront of Lung King Street caused nuisance, and the water quality at the waterfront of Lung King Street was becoming worse that accumulation of the floating refuse and foam was found	A public complaint regarding construction dust, plant exhaust, construction noise and water quality referred by EPD was received by ET on 10 March 2016 (EPD Ref.: H05/RS/00005206-16 dated 10 March 2016). The complainant reported that construction dust, plant exhaust and construction noise generated from the construction work of Contract HK/2012/08 at waterfront of Lung King Street caused nuisance, and the water quality at the waterfront of Lung King Street was becoming worse that accumulation of the floating refuse and foam was found. ET confirmed with the Resident Site Staff that soil excavation at ELS area, Zone A2(2), was carried out, where at approx. 100m from the waterfront of Lung King Street from 08:00 hrs to 18:00 hrs on 07 March 2016 under Contract HK/2012/08. Two excavators were involved at that location. Erection of falsework for culvert L was carried out near the waterfront of Lung King Street from 08:00 hrs to 18:00 hrs on 07 March 2016 under Contract HK/2012/08. One lorry crane was involved for lifting falsework elements. Dust suppression measures including the water sprinklers were installed along site haul road. Regularly removed the floating refuse at the waterfront of Lung King Street was conducted by the Contractor of HK/2012/08. The concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge. According to the relevant site records provided by RSS, soil excavation at ELS area, Zone A2(2) was carried out, where at approx.100m from the waterfront of Lung King Street under Contract	Interim investigation report submitted to EPD on 18 March 2016.



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					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. 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. Nevertheless, in view of the public concern, the	



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					of the observed pipping with discharge to prevent further seepage water into the construction site.	
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	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). 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 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. 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.	The interim report was submitted to the EPD on 14 April 2016. 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.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow-up inspection was conducted on 06 April 2016, rectification actions including the use of vacuum suction to extract dust generated during the concerned drilling works was observed implemented by the Contractor of HY/2009/19 for starter bars drilling works.	
ICC Case Ref.:2-2036525055 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	An ICC public complaint regarding landscape aspect was referred by RSS was received by ET on 11 April 2016 (Case Ref.:2-2036525055). The complainant reported that a tree (6 meters in height and 1.5 meters in diameter) was found toppled at 111 Victoria Park Road, near Lamp post 38632 and blocking the Pedestrian pathway on 27 March 2016. ET confirmed with the Resident Site Staff that the concerned tree was identified as T710 and no construction activity in the vicinity of tree T710 on 27 March 2016 and no construction works are required in or near its vicinity. Based on the site records confirmed by RSS, the concerned tree was identified as the retained tree T710 maintained under the Contract of HY/2010/08 and the concerned tree T710 was located outside the assessment area in the relevant Project EIA Report. No construction works are required in the vicinity of concerned tree T710 and no construction activity was conducted in the vicinity of tree T710 on 27 March 2016. Nevertheless, based on RSS information, recent tree monitoring report indicates an existing cavity at trunk and the concerned tree T710 has been recommended to be felled in the tree risk assessment Form 2. With respect to the observed incident of the toppling of the concerned tree T710, the	Investigation Report issued on 15 April 2016 and case closed



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 08367-16 dated 13 April 2016	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	A public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning. ET confirmed with the Resident Site Staff that internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.	Interim investigation report was submitted to the EPD on 21 April 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact. Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.	



Appendix 10.1

Construction Programme of Individual Contracts

Activity ID	Activity Name	OD	Start	Finish	2015	2016				
						Qtr 1		Qtr 2		
						Jan	Feb	Mar	Apr	
HK/2009/01 - Revised Works Progress Rev. 6H (Data Date: 20 Jan 16)										
Section 3 of the Works - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8										
CWB Tunnelling Works (Stage 1 : CH2947 - CH3045)										
Stage 1 - Tunnel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)										
Tunnel Structure at Stage 1A & 1B (CH2947 - CH3045)										
S3A-TS-2080	Backfilling to formation level for Stage 1B (CH 80 to CH 120)	200d	19/01/15 A	05/02/16	Backfilling to formation level for Stage 1B (CH 80 to CH 120)					
CWB Tunnelling Works (Stage 2 : Ch3045 - Ch3129)										
Stage 2 - Tunnel Structure Works (Bay 7 to Bay 10 : CH3045 - CH3129)										
S3B-TS-9000A	Backfilling to Formation Level (CWB) - 12,000cu.m	20d	29/12/15 A	05/02/16	Backfilling to Formation Level (CWB) - 12,000cu.m					
CWB Tunnelling Works (Stage 3 : Ch3129 - Ch3245)										
Stage 3 - Tunnel Structure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245)										
Tunnel Structure at Stage 3A & 3B (CH3129 - CH3245)										
S3C-TS-2000E	Bay 10 to Bay 13 Slip Road 3 Top Slab	15d	25/12/15 A	22/01/16	Bay 10 to Bay 13 Slip Road 3 Top Slab					
S3C-TS-2000E	Bay 10 to Bay 13 Slip Road 3 Scaffold Removal	14d	23/01/16	05/02/16	Bay 10 to Bay 13 Slip Road 3 Scaffold Removal					
S3C-TS-2000E	Bay 10 to Bay 13 Slip Road 3 Road Barrier	13d	06/02/16	18/02/16	Bay 10 to Bay 13 Slip Road 3 Road Barrier					
S3C-TS-2000L	Removal of 1st layer of strut/waling	9d	04/12/15 A	05/02/16	Removal of 1st layer of strut/waling					
S3C-TS-2000N	Construction of Bay 10 Slip Road 3 Road Barrier	7d	28/01/16	18/02/16	Construction of Bay 10 Slip Road 3 Road Barrier					
S3C-TS-2030H	Bay 14 CWB and Slip Road 3 Road Barrier	14d	19/11/15 A	18/02/16	Bay 14 CWB and Slip Road 3 Road Barrier					
S3C-TS-2030K	Backfilling to Road formation level from Bay 10 to Bay 14	30d	12/01/16 A	05/02/16	Backfilling to Road formation level from Bay 10 to Bay 14					
S3C-TS-2090C	Bay 15,16 & 17 Slip Road 3 Road Barrier	14d	25/01/16*	10/02/16	Bay 15,16 & 17 Slip Road 3 Road Barrier					
S3C-TS-2090D	Bay 15,16 & 17 Slip Road 2 Road Barrier	14d	25/01/16*	10/02/16	Bay 15,16 & 17 Slip Road 2 Road Barrier					
S3C-TS-2110E	Removal Scaffold at Bay 18 to 20	17d	13/01/16 A	05/02/16	Removal Scaffold at Bay 18 to 20					
S3C-TS-2110F	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier	9d	06/02/16	14/02/16	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier					
S3C-TS-2150	Backfilling up to Future Road Formation for Bay 19 - Bay20	32d	06/04/16	07/05/16						

Activity ID	Activity Name	OD	Start	Finish	2015	2016			
						Qtr 1		Qtr 2	
						Jan	Feb	Mar	Apr
Section 8 of the Works - Works in Area 6 (Utilities other than Watermains in Fenwick Pier Street)									
Sewerage Works									
S8-3010	Planter Reinstatement	30d	29/07/15 A	05/02/16	Planter Reinstatement				
S8-3020	Road Reinstatement	21d	25/09/15 A	05/02/16	Road Reinstatement				
Section 9 of the Works - Remaindar of the Works									
Box Culvert Construction									
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)	30d	02/06/15 A	05/02/16	Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)				
Reprovision of Expo Drive East									
S9-2060	Construction of Retaining Wall Extension to Top of Box Culvert Bay 7	30d	01/02/16*	01/03/16	Construction of Retaining Wall Extension to Top of Box Culvert B				
Waterworks in Area 9									
Abandaned Pipes Removal									
S9-7090	Zone A4-4 Abandoned Pipes P7/P9 Removal Works	30d	14/10/15 A	01/02/16	Zone A4-4 Abandoned Pipes P7/P9 Removal Works				
S9-7100	Zone X1-4a Abandoned Pipes P5 Removal Works/ grouting	14d	27/10/15 A	05/02/16	Zone X1-4a Abandoned Pipes P5 Removal Works/ grouting				
Variation Order No.153 - Design and Construct CWB Bypass Tunnel from CH3246 to CH3278									
Works at Area 8 - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8									
CWB Tunnelling Works (Stage 4: Ch3246 - Ch3278)									
Stage 4 - Tunnel Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278)									
S4-TS-0005	Pile Head Fabrication	15d	18/01/16 A	23/01/16	Pile Head Fabrication				
S4-TS-0010	Bay 21 Base Slab	10d	18/01/16 A	28/01/16	Bay 21 Base Slab				
S4-TS-0020	Bay 22 Base Slab	10d	21/01/16	04/02/16	Bay 22 Base Slab				
S4-TS-0030	Removal of 3rd and 4th layer of Strut/Waling	28d	05/02/16	04/03/16	Removal of 3rd and 4th layer of Strut/Waling				
S4-TS-0040	Bay 21 & 22 Wall	15d	05/03/16	20/03/16	Bay 21 & 22 Wall				
S4-TS-0050	Bay 21 & 22 Wall & OHVD Base Slab	15d	21/03/16	04/04/16	Bay 21 & 22 Wall & OHVD Base Slab				
S4-TS-0060	Bay 21 & 22 OHVD Wall Stem and Top Slab	15d	05/04/16	20/04/16	Bay 21 & 22 OHVD Wall Stem and Top Slab				

- ◆ Milestone
- ◆ Critical Milestones
- Current Works
- Critical Works

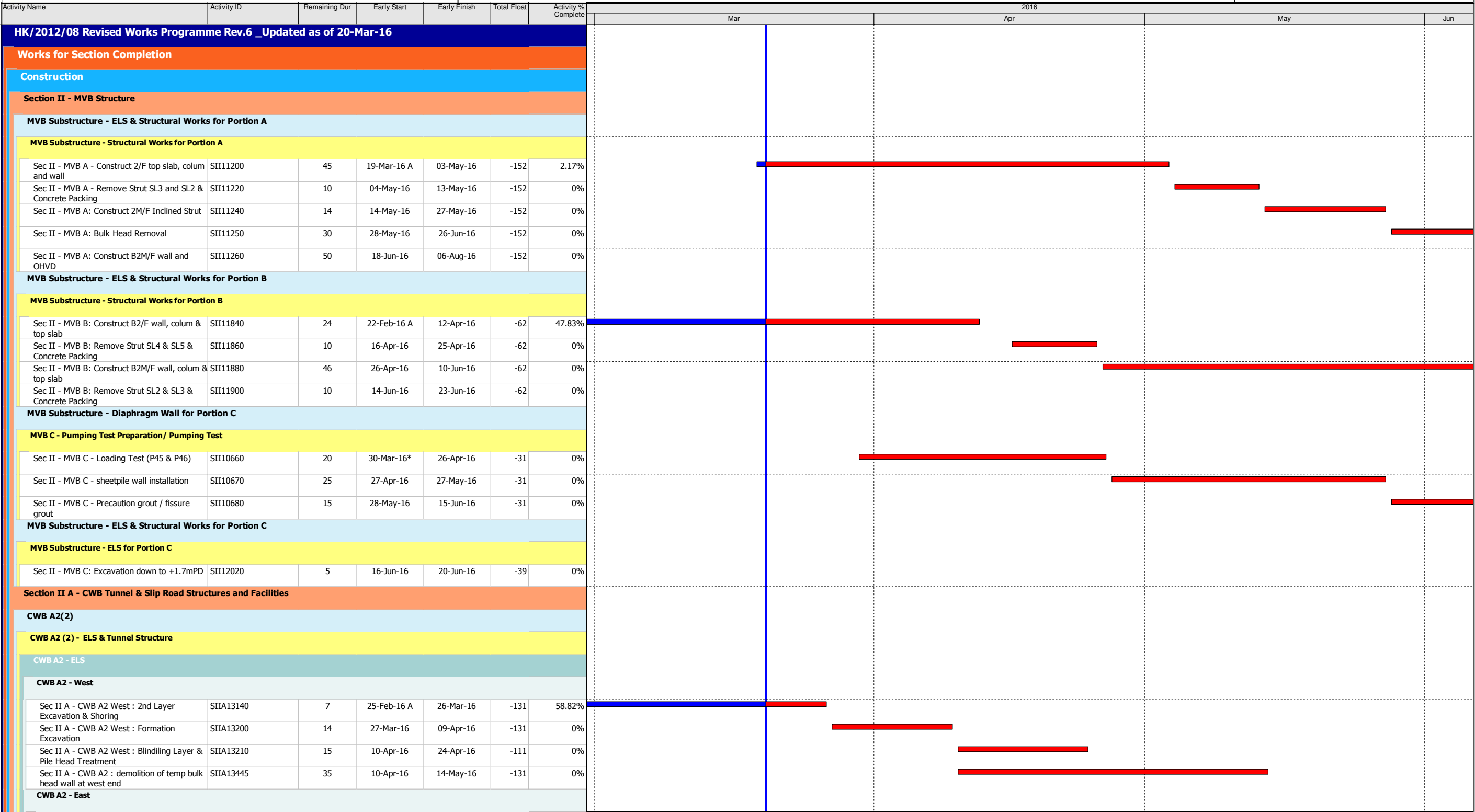
CHUN WO - CRGL
JOINT VENTURE

CEDD CONTRACT NO. HK/2009/02
WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Dec-15)

[illegible]

Activity ID		Activity Name	On Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar	2015		2016		2016		2016		2016	
									Dec		Jan	Feb	Mar	Apr				
S9B-T34-B3-1020		Base Slab - Rebar Fixing	7	7	08-Feb-16	14-Feb-16	-680	Calendar Day										
S9B-T34-B3-1030		Base Slab - Concrete	1	1	15-Feb-16	15-Feb-16	-662	Calendar Day										
S9B-T34-B3-1040		Base Slab - Curing	4	4	16-Feb-16	19-Feb-16	-662	Calendar Day										
S9B-T34-B3-1150		Wall (Middle) - Rebar Fixing & Working Platform	4	4	15-Mar-16	18-Mar-16	-657	Calendar Day										
Bay 4																		
S9B-T34-B4-1000		Base Slab - Trim Bored Pile & Blinding	7	7	11-Feb-16	17-Feb-16	-677	Calendar Day										
S9B-T34-B4-1010		Base Slab - Waterproofing	4	4	18-Feb-16	21-Feb-16	-677	Calendar Day										
S9B-T34-B4-1020		Base Slab - Rebar Fixing	7	7	25-Feb-16	02-Mar-16	-680	Calendar Day										
S9B-T34-B4-1030		Base Slab - Concrete	1	1	03-Mar-16	03-Mar-16	-679	Calendar Day										
S9B-T34-B4-1040		Base Slab - Curing	4	4	04-Mar-16	07-Mar-16	-679	Calendar Day										
Bay 5																		
S9B-T34-B5-1000		Base Slab - Trim Bored Pile & Blinding	7	7	16-Feb-16	23-Feb-16	-668	Calendar Day										
S9B-T34-B5-1010		Base Slab - Waterproofing	4	4	23-Feb-16	27-Feb-16	-668	Calendar Day										
Bay 6																		
S9B-T34-B6-1000		Base Slab - Trim Bored Pile & Blinding	7	7	26-Feb-16	04-Mar-16	-666	Calendar Day										
S9B-T34-B6-1010		Base Slab - Waterproofing	4	4	04-Mar-16	08-Mar-16	-665	Calendar Day										
Bay 7																		
S9B-T34-B7-1000		Base Slab - Trim Bored Pile & Blinding	7	7	13-Feb-16	20-Feb-16	-672	Calendar Day										
S9B-T34-B7-1010		Base Slab - Waterproofing	4	4	20-Feb-16	24-Feb-16	-672	Calendar Day										
S9B-T34-B7-1020		Base Slab - Rebar Fixing	7	7	03-Mar-16	09-Mar-16	-680	Calendar Day										
Bay 8																		
S9B-T34-B8-1000		Base Slab - Trim Bored Pile & Blinding	7	7	19-Feb-16	26-Feb-16	-666	Calendar Day										
S9B-T34-B8-1010		Base Slab - Waterproofing	4	4	26-Feb-16	01-Mar-16	-665	Calendar Day										
Bay 9																		
S9B-T34-B9-1000		Base Slab - Trim Bored Pile & Blinding	7	7	04-Mar-16	11-Mar-16	-666	Calendar Day										
S9B-T34-B9-1010		Base Slab - Waterproofing	4	4	11-Mar-16	15-Mar-16	-665	Calendar Day										
Bay 10																		
S9B-T34-B10-1000		Base Slab - Trim Bored Pile & Blinding	7	7	15-Mar-16	22-Mar-16	-666	Calendar Day										
Bay 11																		
S9B-T34-B11-1000		Base Slab - Trim Bored Pile & Blinding	7	7	08-Mar-16	15-Mar-16	-666	Calendar Day										
S9B-T34-B11-1010		Base Slab - Waterproofing	4	4	15-Mar-16	19-Mar-16	-664	Calendar Day										
Bay 13																		
S9B-T34-B13-1000		Base Slab - Trim Bored Pile & Blinding	7	7	13-Feb-16	20-Feb-16	-623	Calendar Day										
S9B-T34-B13-1010		Base Slab - Waterproofing	4	4	20-Feb-16	24-Feb-16	-623	Calendar Day										
S9B-T34-B13-1020		Base Slab - Rebar Fixing	7	7	24-Feb-16	02-Mar-16	-623	Calendar Day										
S9B-T34-B13-1030		Base Slab - Concrete	1	1	02-Mar-16	03-Mar-16	-623	Calendar Day										
S9B-T34-B13-1040		Base Slab - Curing	4	4	03-Mar-16	07-Mar-16	-623	Calendar Day										
Bay 14																		
S9B-T34-B14-0990		Base Slab - Trim Bored Pile & Blinding	7	7	20-Feb-16	27-Feb-16	-606	Calendar Day										
S9B-T34-B14-1000		Base Slab - Waterproofing	4	4	29-Feb-16	04-Mar-16	-602	Calendar Day										
S9B-T34-B14-1010		Base Slab - Rebar Fixing	10	10	04-Mar-16	14-Mar-16	-594	Calendar Day										
Bay 15																		
S9B-T34-B15-0990		Base Slab - Trim Bored Pile & Blinding	7	7	27-Feb-16	05-Mar-16	-606	Calendar Day										
S9B-T34-B15-1000		Base Slab - Waterproofing	4	4	05-Mar-16	09-Mar-16	-603	Calendar Day										
S9B-T34-B15-1010		Base Slab - Rebar Fixing	7	7	09-Mar-16	16-Mar-16	-596	Calendar Day										
Bay 16																		
S9B-T34-B16-0990		Base Slab - Trim Bored Pile & Blinding	7	7	05-Mar-16	12-Mar-16	-606	Calendar Day										
S9B-T34-B16-1000		Base Slab - Waterproofing	4	4	12-Mar-16	16-Mar-16	-606	Calendar Day										
S9B-T34-B16-1010		Base Slab - Rebar Fixing	10	10	16-Mar-16	26-Mar-16	-606	Calendar Day										
Bay 17																		
S9B-T34-B17-0990		Base Slab - Trim Bored Pile & Blinding	7	7	20-Feb-16	27-Feb-16	-599	Calendar Day										
S9B-T34-B17-1000		Base Slab - Waterproofing	4	4	27-Feb-16	02-Mar-16	-589	Calendar Day										
S9B-T34-B17-1010		Base Slab - Rebar Fixing	7	7	02-Mar-16	09-Mar-16	-589	Calendar Day										
S9B-T34-B17-1020		Base Slab - Concrete	1	1	09-Mar-16	10-Mar-16	-589	Calendar Day										
Bay 18																		
S9B-T34-B18-1000		Base Slab - Trim Bored Pile & Blinding	5	5	27-Feb-16	03-Mar-16	-599	Calendar Day										
S9B-T34-B18-1010		Base Slab - Waterproofing	3	3	03-Mar-16	06-Mar-16	-599	Calendar Day										

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Data Date: 20-Mar-16	Current Milestone Actual Work Critical Remaining Work Remaining Work Remaining Level of Effort	3-Months Rolling Programme for Non-CRIII Area (Ref. to DWP Rev.6)	Date	Revision	Checked	Approved
			30-Mar-16	Rev. 1		



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 Name	Activity ID	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete	2016			
							Mar	Apr	May	Jun
Sec II A - CWB A2 East : 2nd Layer Excavation & Shoring	SIIA13360	7	02-Mar-16 A	26-Mar-16	-112	65%				
Sec II A - CWB A2 East : Formation Excavation	SIIA13400	14	31-Mar-16	13-Apr-16	-116	0%				
Sec IIA - CWB A2 East : Blinding Layer & Pile Heads Treatment	SIIA13420	12	14-Apr-16	27-Apr-16	-92	0%				
Sec IIA - CWB A2 : demolition of temp bulk head wall at East end	SIIA13448	30	24-Mar-16	22-Apr-16	-95	0%				
CWB A2 - Tunnel Structure										
Sec II A - CWB A2 : base, wall, OHVD & roof (bay 1 - Adjacent to Zone A1)	SIIA11700	60	15-May-16	13-Jul-16	-131	0%				
Sec II A - CWB A2 : base, wall, OHVD & roof (bay 2)	SIIA11740	60	29-May-16	27-Jul-16	-131	0%				
Sec II A - CWB A2 : base, wall, OHVD & roof (bay 3)	SIIA12492	60	15-May-16	13-Jul-16	-131	0%				
Sec II A - CWB A2 : base, wall, OHVD & roof (bay 4)	SIIA12494	60	29-May-16	27-Jul-16	-131	0%				
CWB B & A2(1))										
CWB B - ELS & Tunnel Structure										
CWB B - ELS										
CWB B - ELS Stage 1 - West										
Sec II A - CWB B West: 3rd Layer Excavation & Shoring	SIIA13562	5	21-Jan-16 A	24-Mar-16	-125	0%				
Sec II A - CWB B West: 4th Layer Excavation & Shoring	SIIA13582	25	25-Mar-16	18-Apr-16	-125	0%				
Sec II A - CWB B West: Formation Excavation	SIIA13602	4	19-Apr-16	22-Apr-16	-125	0%				
Sec II A - CWB B West: Blinding Layer & Pile Head Treatment	SIIA13622	14	19-Apr-16	02-May-16	-125	0%				
CWB B - ELS Stage 2 - Concrete Plug										
Sec II A - CWB CP & WP: Wet Excavation & Temporary Works	SIIA 15120	32	27-Jan-16 A	20-Apr-16	-76	0%				
Sec II A - CWB CP & WP: Treatment to Concrete Plug	SIIA 15160	12	21-Apr-16	02-May-16	-76	0%				
Sec II A - CWB B: Demolish Sheetpile Bulkhead wall at Concrete Plug	SIIA 15170	14	03-May-16	16-May-16	-76	0%				
Sec II A - CWB CP & WP: Blinding Layer & Cutting of C4 Bulkhead	SIIA 15180	12	17-May-16	28-May-16	-76	0%				
CWB B - Tunnel Structure										
Sec II A - CWB B: base, wall, OHVD & roof (bay 1 - Adjacent to Zone A2)	SIIA13560	85	21-Apr-16	14-Jul-16	-125	0%				
Sec II A - CWB B: base, wall, OHVD & roof (bay 2)	SIIA13600	70	28-Apr-16	06-Jul-16	-125	0%				
Sec II A - CWB B: base, wall, OHVD & roof (bay 3 - Adjacent to C4)	SIIA13660	65	09-May-16	12-Jul-16	-125	0%				
CWB C (W)										
CWB C(W) - ELS & Tunnel Structure										
CWB C(W) - ELS										
CWB C(W) - ELS Stage 1 East										
Sec II A - CWB CW East: 3rd Layer Excavation & Shoring	SIIA12121	18	20-Mar-16	06-Apr-16	-102	0%				
Sec II A - CWB CW East: Formation Excavation	SIIA12141	4	07-Apr-16	10-Apr-16	-102	0%				
Sec II A - CWB CW East: Blinding Layer & Barrette Trimming	SIIA12161	9	11-Apr-16	19-Apr-16	-102	0%				
Sec II A - CWB CW: Demolish Bulkhead at MVB (adj. to bay 3)	SIIA15540	26	20-Apr-16	15-May-16	-102	0%				
CWB C(W) - ELS Stage 2 Concrete Plug										
Sec II A - CWB CW CP: Grouting	SIIA 12150	4	24-Feb-16 A	23-Mar-16	-90	80%				
Sec II A - CWB CW CP: Wet Excavation	SIIA 12170	7	24-Mar-16	30-Mar-16	-90	0%				
Sec II A - CWB CW CP: Treatment to Concrete Plug	SIIA 12190	11	31-Mar-16	10-Apr-16	-90	0%				
Sec II A - CWB CW CP: Cut Sheetpile	SIIA 12210	11	11-Apr-16	21-Apr-16	-90	0%				
Sec II A - CWB CW CP: Blinding Layer & Cutting of C4 Bulkhead	SIIA 12230	12	22-Apr-16	03-May-16	-90	0%				



Activity Name	Activity ID	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete	2016			
							Mar	Apr	May	Jun
CWB C(W) - Tunnel Structure										
Sec II A - CWB CW: base, wall, OHVD & roof (bay 1)	SIIA12140	60	16-May-16	14-Jul-16	-102	0%				
Sec II A - CWB CW: base, wall, OHVD & roof (bay 2)	SIIA12180	60	17-Jun-16	15-Aug-16	-102	0%				
CWB C (E)										
CWB C(E) - ELS & Tunnel Structure										
CWB C(E) - ELS										
Sec IIA - CWB CE: 2nd Layer Excavation & Shoring	SIIA13162	14	16-Mar-16 A	02-Apr-16	-134	12.5%				
Sec IIA - CWB CE: 3rd Layer Excavation & shoring	SIIA13164	14	03-Apr-16	16-Apr-16	-134	0%				
Sec II A - CWB CE: Formation Excavation	SIIA13165	7	17-Apr-16	23-Apr-16	-134	0%				
Sec II A - CWB CE: Blinding Layer & Barrette Trimming	SIIA13166	11	24-Apr-16	04-May-16	-134	0%				
Sec II A - CWB CE: Demolish Bulkhead at MVB (adj. to bay 3)	SIIA13270	26	05-May-16	30-May-16	-134	0%				
Sec II A - CWB CE: Demolish Bulkhead at C1 Interface	SIIA13290	26	31-May-16	25-Jun-16	-134	0%				
CWB C(E) - Tunnel Structure										
Sec II A - CWB CE: base, wall, OHVD & roof (bay 2)	SIIA13220	60	05-May-16	03-Jul-16	-103	0%				
Sec II A - CWB CE: base, wall, OHVD & roof (bay 1) (after MVB Bulkhead Removal)	SIIA13260	60	31-May-16	29-Jul-16	-108	0%				
CWB C - Exhaust Duct										
CWB C - Exhaust Duct Piling										
Sec II A - Exhaust Duct at Slip Rd3: Set Up & Loading Test	SIIA12860	14	21-Mar-16	06-Apr-16	-67	0%				
CWB C - Exhaust Duct Temp Work & ELS										
Sec II A - Exhaust Duct at Slip Rd3: Temp. Sheetpiling	SIIA12880	21	07-Apr-16	27-Apr-16	-80	0%				
Sec II A - Exhaust Duct at Slip Rd3: Excavation & Shoring	SIIA12900	30	28-Apr-16	27-May-16	-80	0%				
Sec II A - Exhaust Duct at Slip Rd3: Blinding & Capping Plate	SIIA12910	10	28-May-16	06-Jun-16	-80	0%				
Sec II A - Exhaust Duct at Slip Rd3: Demolish Bulkheads	SIIA12920	30	07-Jun-16	06-Jul-16	-80	0%				
CWB C - Exhaust Duct Structural Work										
Sec II A - Exhaust Duct at Slip Rd3: bottom slab, wall and top slab (bay 2)	SIIA12940	30	07-Jun-16	06-Jul-16	-66	0%				
CWB D - Slip Road 1										
CWB D - Slip Road 1 - Dwall Construction & Piling										
Sec II A - CWB SR1: Concrete Plug (MTR TWL)	SIIA12340	12	17-Feb-16 A	31-Mar-16	-65	78.18%				
CWB D - Slip Road 1 - Pumping Test Preparation/ Pumping Test										
Sec II A - CWB SR1: Sonic Test for Dwall	SIIA12380	43	30-Dec-15 A	01-May-16	1004	28.33%				
Sec II A - CWB SR1: Install dewatering/ recharging/ observation wells	SIIA12400	54	20-Mar-16	12-May-16	-72	0%				
CWB D - Slip Road 1 - ELS & Tunnel Structure										
CWB D - Slip Road 1 - ELS										
CWB D - SR1 - ELS - East										
Sec II A - CWB SR1 East: 2nd Layer Excavation & Shoring	SIIA 12482	12	16-Mar-16 A	31-Mar-16	-93	25%				
Sec II A - CWB SR1 East: Formation Excavation	SIIA 12502	3	01-Apr-16	03-Apr-16	-93	0%				
Sec II A - CWB SR1 East: Blinding & Pile Head Treatment	SIIA 12522	10	04-Apr-16	13-Apr-16	-50	0%				
CWB D - SR1 - ELS - Middle										
Sec II A - CWB SR1 Middle: 2nd Layer Excavation & Shoringg	SIIA 12530	18	15-Mar-16 A	06-Apr-16	-48	57.14%				
Sec II A - CWB SR1 Middle: 3rd Layer Excavation & Shoring	SIIA 12550	10	07-Apr-16	16-Apr-16	-48	0%				



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

Page : 4 / 6

Activity Name	Activity ID	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete	2016			
							Mar	Apr	May	Jun
Sec II A - CWB SR1 Middle: Formation Excavation	SIIA 12570	2	17-Apr-16	18-Apr-16	-48	0%				
Sec II A - CWB SR1 Middle: Blinding Layer & Pile Head Treatment	SIIA 12590	10	13-May-16	22-May-16	-72	0%				
CWB D - SR1 - ELS - West										
Sec II A - CWB SR1 West: 1st Layer Excavation & Shoring	SIIA 12600	8	01-Apr-16	08-Apr-16	-65	0%				
Sec II A - CWB SR1 West: 2nd Layer Excavation & Shoring	SIIA 12620	8	09-Apr-16	16-Apr-16	-65	0%				
Sec II A - CWB SR1 West: 3rd Layer Excavation & Shoring	SIIA 12640	8	17-Apr-16	24-Apr-16	-65	0%				
Sec II A - CWB SR1 West: Formation Excavation	SIIA 12660	3	25-Apr-16	27-Apr-16	-65	0%				
Sec II A - CWB SR1 West: Blinding Layer	SIIA 12680	1	28-Apr-16	28-Apr-16	-65	0%				
CWB D - Slip Road 1 - Tunnel Structure										
Sec II A - CWB SR1: base, wall & roof (bay 1)	SIIA12500	30	04-Apr-16	03-May-16	-74	0%				
Sec II A - CWB SR1: base, wall & roof (bay 2)	SIIA12520	30	21-Apr-16	20-May-16	-74	0%				
Sec II A - CWB SR1: base, wall & roof (bay 3)	SIIA12540	30	08-May-16	06-Jun-16	-74	0%				
Sec II A - CWB SR1: base, wall & roof (bay 4)	SIIA12560	30	25-May-16	23-Jun-16	-74	0%				
Sec II A - CWB SR1: base, wall & roof (bay 5)	SIIA12565	30	11-Jun-16	10-Jul-16	-74	0%				
CWB D - Slip Road 1 - Trough / Retaining Wall										
CWB D - Slip Road 1 - Trough/Retaining Wall Temp Work & ELS										
Sec II A - CWB SR1 Trough & RW: Preboring for installing Sheetpile (120 nos@ 3 nos./day)	SIIA12740	20	17-Mar-16 A	16-Apr-16	-93	16.67%				
Sec II A - CWB SR1 Trough & RW: install sheetpile	SIIA12760	21	28-Mar-16	25-Apr-16	-93	0%				
Sec II A - CWB SR1 Trough & RW: Excavation & Shoring	SIIA12780	20	26-Apr-16	20-May-16	-93	0%				
CWB D - Slip Road 1 - Trough/Retaining Wall Structure										
Sec II A - CWB SR1 Trough & RW: Trough Structure (bay 1)	SIIA12800	18	21-May-16	11-Jun-16	-93	0%				
Sec II A - CWB SR1 Trough & RW: Trough Structure (bay 2)	SIIA13720	18	06-Jun-16	27-Jun-16	-93	0%				
Sec II A - CWB SR1 Trough & RW: Retaining Walls RW3 (bay 1)	SIIA13800	15	17-Jun-16	05-Jul-16	-93	0%				
Section III - Road D11 & Part of Road P2, Area 4, Implement 1st Stage ITA										
Roadwork & Utilities										
Remaining Works for Handing Over Area 4										
Utilities	SIIII1080	23	29-Feb-16 A	20-Apr-16	13	42.5%				
Remaining Roadwork at West	SIIII1100	36	20-Feb-16 A	06-May-16	0	40%				
Others	SIIII1120	7	07-May-16	16-May-16	0	0%				
Works after the Box Culvert Reinstatement										
[Summary] reinstatement of Box Culvert K	SIIII10240	76	15-Jun-16	12-Sep-16	-68	0%				
Box Culvert L1 & FRP-L - Bay 8										
Box Culvert L1 & FRP-L - Bay 8 Structure										
Sec VI C - Culvert L - Diversion of flow from temp channel into Cul L	CUL10252	2	24-Mar-16	25-Mar-16	40	0%				
Culvert L - Bay 8 - Temporary Works for Flow Diversion & Box Culvert Construction	CUL10260	31	03-Feb-16 A	29-Apr-16	14	43.64%				
Culvert L - bay 8 - construct pile cap	CUL11320	25	30-Apr-16	31-May-16	14	0%				
Culvert L - bay 8 - construct base slab	CUL11322	25	01-Jun-16	30-Jun-16	14	0%				
Box Culvert L1 & FRP-L - Bay 12 to 13										
Box Culvert L1 & FRP-L - Bay 12 to 13 Piling										
Culvert L - bay 13 - construct pre-bored H-pile (PC10 & PC11)	CUL12356	32	22-Feb-16 A	30-Apr-16	-98	40.74%				



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 Name	Activity ID	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete	2016			
							Mar	Apr	May	Jun
Box Culvert L1 & FRP-L - Bay 12 to 13 Temp Work & ELS										
Culvert L - bay 12 & 13 - pile head treatment and construct pile cap PC9, PC10 & PC11	CUL12480	90	03-May-16	18-Aug-16	-63	0%				
Box Culvert L1 & FRP-L - Bay 12 to 13 Structure										
Culvert L - bay 12 & 13 - Construct Precast Units (off site)	CUL12545	75	16-May-16*	12-Aug-16	-58	0%				
Section VI C - Area 3, 6, 8A & 8C										
Area 8A & 8C - Seawall Modification										
Modification of Seawall										
Modification of Seawall - Zone 1 & 2										
Sec VIC - Zone 1: Working Platform & P7 to P17, P23 & P24	PRS10060	24	21-Mar-16*	21-Apr-16	-124	0%				
Area 8A - MTR Pump Room Clearance & Handover										
Sec VI C - Clearance of pump house for Handover	PRS-1060	5	16-Apr-16	21-Apr-16	-111	0%				
Area 6 - Box Culvert bay 5-6										
Sec VI C - Culvert L - bay 5, 6 - backfill to +4.0mPD	CUL11787	10	22-Oct-15 A	31-Mar-16	0	77.78%				
Sec VI C - backfill to formation level at Area 6	SVIC10020	7	24-Mar-16	31-Mar-16	0	0%				
Section VI D - Area 8B & 10										
WDII Box 1 Construction										
WDII Box 1 Existing Pile Head and Dry Dock										
Sec VI D - Precast Box 1 (bottom slab and temp bulk head wall)	WD-C3032	62	31-Mar-16*	18-Jun-16	0	0%				
Sec VID - Precast Box Beam	WD-C3052	40	16-Apr-16	03-Jun-16	-37	0%				
WDII Box I Existing Pile Head Treatment										
Sec VIC - Pile Head at Pile B3	PRS10300	5	09-Mar-16 A	25-Mar-16	-106	77.27%				
Sec VIC - Pile Head at Pile B4	PRS10320	14	26-Mar-16	15-Apr-16	-106	0%				
WDII Box 1 ELS										
Sec VIC - Excavation at Zone 3	WD-C3994	9	27-Apr-16	07-May-16	-124	0%				
Sec VIC - Removal of Platform of Bored Pile	WD-C3995	2	09-May-16	10-May-16	-124	0%				
Sec VIC - Install Column, C1, Struct S1 & RS1	WD-C3998	10	11-May-16	23-May-16	-124	0%				
Sec VIC - Excavation of Fluid	WD-C4000	8	24-May-16	01-Jun-16	-124	0%				
Sec VIC - Excavation of Rockfill to -7.5mPD	WD-C4020	4	02-Jun-16	06-Jun-16	-124	0%				
Sec VIC - 2nd Layer of Strut	WD-C4040	7	07-Jun-16	15-Jun-16	-124	0%				
Sec VIC - Excavation down to -11.5mPD	WD-C4060	4	16-Jun-16	20-Jun-16	-124	0%				
Section IV - Slip Road 3										
Roadwork & Utilities (Lung King Street)										
Stage 1 - MH1.2 to MH1.3 Road & Drainage	SIV11000	45	21-Mar-16*	18-May-16	-108	0%				
Stage 2 - MH1.3 to MH1.4 Road & Drainage	SIV11020	45	19-May-16	12-Jul-16	-108	0%				
Section VII - Remainder Works										
Promenade Seawall Parapet Construction										
Sec VII - construct block seawall mass concrete coping & backfill to pavement formation	SVII10400	120	28-May-16*	20-Oct-16	39	0%				
Section VIII - Landscape Softworks										
Soft Landscaping Works										
Sec VIII - Trees Planting	SVIII10040	180	21-Mar-16	28-Oct-16	0	0%				



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 Name	Activity ID	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete	2016						
Section X - Protection & Preservation of Trees Soft Landscaping Works Sec X - Protection & Preservation of TreesSX1002048931-Jan-13 A21-Jul-17070.04% VO : Construction of Box 4A & 4B Box 4A Concrete Fill with 300 dia. carrier drain (Approx. 50m)4A100002106-Jun-1630-Jun-16-600% Internal Suspended Slab & Internal Wall4A100203017-Jun-1622-Jul-16-600%							Mar		Apr		May		Jun

MU66

CWB - MU66 Programme Layout

31-Mar-16 16:53

Activity ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
HY/2009/15 - Works Programme Update 20 March 2016																		
Stage and Section Completion																		
KD_5745	KD10 - Completion of Section 5, (1863d)	0%	0d		25-Mar-16*	-142d												
KD_5740	KD9 - Completion of Section 4, (1739d)	0%	0d		11-Jun-16*	-344d												
KD_5750	KD11 - Completion of Section 6, (1949d)	0%	0d		12-Jun-16*	-135d												
TPCWAW																		
TPCWAW ELS Works - East Section																		
S6_6180	East excavation to formation	100%	85d	18-Sep-15 A	24-Dec-15 A													
S5_61070	Demolition of bulkhead wall TPCWAE/TPCWAW	100%	34d	06-Dec-15 A	09-Jan-16 A													
TPCWAW- CCT RC Structure, Base Slab																		
S5_60600	Waterproofing + Base slab Bay 1 (incl. removal of 7th layer struts after casting of base slab)	100%	15d	03-Dec-15 A	23-Dec-15 A													
S5_60620	Waterproofing + Base slab Bay 5	100%	11d	05-Dec-15 A	29-Dec-15 A													
S5_60625	Waterproofing + Base slab Bay 6	100%	11d	16-Dec-15 A	19-Jan-16 A													
S5_60630	Waterproofing + Base slab Bay 7	100%	7d	07-Jan-16 A	05-Feb-16 A													
S5_60635	Waterproofing + Base slab Bay 8	100%	6d	12-Jan-16 A	05-Feb-16 A													
S5_61065	Waterproofing + Base slab Bay 9 (stitching with TPCWAE)	100%	6d	15-Jan-16 A	05-Feb-16 A													
TPCWAW- CCT RC Structure, Wall																		
S5_60675	Wall Bay 2 (+ reprofing and removal of 5th & 6th struts)	100%	10d	10-Dec-15 A	05-Jan-16 A													
S5_60680	Wall Bay 3 (+ reprofing and removal of 5th & 6th struts)	100%	21d	10-Dec-15 A	07-Jan-16 A													
S5_60670	Wall Bay 1 (+ reprofing and removal of 5th & 6th struts)	100%	21d	15-Dec-15 A	10-Jan-16 A													
S5_60685	Wall Bay 4 (+ reprofing and removal of 5th & 6th struts)	100%	22d	20-Dec-15 A	11-Jan-16 A													
S5_60690	Wall Bay 5 (+ removal of 5th strut)	100%	10d	02-Jan-16 A	29-Jan-16 A													
S5_60695	Wall Bay 6 (+ removal of 5th strut)	100%	7d	21-Jan-16 A	25-Feb-16 A													
S5_60700	Wall Bay 7 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A													
S5_60705	Wall Bay 8 (+ removal of 5th strut)	100%	9d	16-Feb-16 A	25-Feb-16 A													
S5_61075	Wall Bay 9 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A													
TPCWAW -Maintenance Walkway																		
S6_9085	TPCWAW - Maintenance walkway / profile barrier	86.96%	23d	20-Dec-15 A	22-Mar-16	82d												

Remaining Work

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Summary

Actual Work

China State Construction Engineering (Hong Kong) Ltd.

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

WORKS PROGRAMME UPDATE

1 of 3

Prepared by Quartz Jequitno

Date

20-Mar-16

Progress Update

(based on WP Rev. N-3rd Submission)

Checked

WC

Approved

WSL

中國建築工程(香港)有限公司

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Remaining Work

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Summary

Actual Work

1 of 3

China State Construction Engineering (Hong Kong) Ltd.

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

WORKS PROGRAMME UPDATE

Date	Progress Update	Checked	Approved
20-Mar-16	(based on WP Rev. N-3rd Submission)	WC	WSL

Activity ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float	2016	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TPCWAW- CCT RC Structure, OHVD																			
S5_60755	OHVD Bay 4	100%	12d	24-Dec-15 A	25-Jan-16 A														
S5_60740	OHVD Bay 1	100%	12d	29-Dec-15 A	21-Jan-16 A														
S5_60745	OHVD Bay 2	100%	12d	31-Dec-15 A	18-Jan-16 A														
S5_60750	OHVD Bay 3	100%	12d	02-Jan-16 A	18-Jan-16 A														
S5_60760	OHVD Bay 5	100%	12d	06-Jan-16 A	25-Jan-16 A														
S5_61080	OHVD Bay 6	100%	9d	20-Jan-16 A	16-Feb-16 A														
S5_61085	OHVD Bay 7	100%	9d	12-Feb-16 A	28-Feb-16 A														
S5_61095	OHVD Bay 9	100%	9d	12-Feb-16 A	28-Feb-16 A														
S5_61090	OHVD Bay 8	100%	9d	16-Feb-16 A	28-Feb-16 A														
S5_61100	OHVD Bay 10	100%	7d	16-Feb-16 A	26-Feb-16 A														
S5_61110	Shaft B Reinstatement - OHVD	0%	20d	20-Feb-16 A	08-Apr-16	64d													
TPCWAW- CCT RC Structure, Top Slab + Waterproofing																			
S5_60815	Top slab Bay 2	100%	10d	08-Jan-16 A	02-Feb-16 A														
S5_60820	Top slab Bay 3	100%	10d	11-Jan-16 A	16-Feb-16 A														
S5_60810	Top slab Bay 1	100%	11d	19-Jan-16 A	23-Feb-16 A														
S5_60825	Top slab Bay 4	100%	11d	19-Jan-16 A	24-Feb-16 A														
S5_61105	Shaft B Reinstatement - Top Slab	100%	15d	14-Feb-16 A	29-Feb-16 A														
S5_60830	Top slab Bay 5	100%	10d	19-Feb-16 A	29-Feb-16 A														
S5_60835	Top slab Bay 6	100%	12d	20-Feb-16 A	02-Mar-16 A														
S5_60840	Top slab Bay 7	100%	7d	20-Feb-16 A	05-Mar-16 A														
S5_60845	Top slab Bay 8	100%	16d	20-Feb-16 A	05-Mar-16 A														
S5_60865	Top slab Bay 9	100%	15d	20-Feb-16 A	08-Mar-16 A														
S5_60875	Top slab Bay 10	0%	5d	20-Feb-16 A	25-Mar-16	-140d													
S6_9055	Provide Access to WDI Contractor for bulkhead wall removal	100%	0d		29-Feb-16 A														
S6_9135	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	0%	0d		25-Mar-16	-142d													
S5_61120	Provide access to CWB (CC) Contractor - TPCWAW Area	0%	0d		28-Apr-16	45d													
TPCWAW - King Post Load Transfer / Waterproofing on Top Slab																			
S6_9076	TPCWAW King post load transfer + waterproofing (except Bay 10)	100%	26d	04-Mar-16 A	29-Mar-16 A														
S5_61115	TPCWAW waterproofing - Bay 10	100%	2d	09-Mar-16 A	10-Mar-16 A														
Remaining Work Actual Work Remaining Work Critical Remaining Work Milestone Summary Actual Work																			
Prepared by Quartz Jeungto Revision Checked Approved																			
Date 20-Mar-16 Progress Update (based on WP Rev. N-3rd Submission) WC WSL																			
China State Construction Engineering (Hong Kong) Ltd. Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section) WORKS PROGRAMME UPDATE																			
2 of 3 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING HONG KONG LTD.																			

Data Date: 20-Mar-16			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	2016														
															Mar				Apr			May			Jun		
Update 2016-03-20 CWB - Central Interchange (2014-06-20)Revised DWP R7																											
PRELIMINARIES																											
Access Dates & Milestones																											
Commencement & Completion																											
1005		Contract Construction Completion					0d			20-Mar-16*		-49d															
SECTION 3 - REMAINING WORKS IN PORTION IIIA & IIIB																											
Surface Works - East of Man Yiu Street																											
Man Yiu Street Northern Portion																											
14962a		MYS Nth - Footpath (VO/158) - Block fabrication and Site work					76d	14-Aug-15 A		31-Mar-16		-330d															
VO171a		VO171 - Addition of Traffic Signs at Man Yiu Street					2d	16-Apr-16*		18-Apr-16		-303d															
Man Yiu Street Southern Portion																											
VO171b		VO171 - Addition of Traffic Signs at Man Yiu Street					2d	16-Apr-16		18-Apr-16		-303d															
SECTION 5 - ALL WORKS IN PORTION V & VA																											
CWB Trough B - CH1360 to CH1480																											
Preliminaries																											
1533		V - Permanent Reinstate Finance Street for TTA6 (Both lanes) & drainage settlement- (VO V/021)					142d	16-Nov-15 A		16-May-16		-152d															
Trough Structure																											
Trough Phase 2a																											
1309		TRB - Backfill - 2a South Wall (VO V021) - 19 days delayby CC steel pipe & 6 days inclement weather					92d	27-Apr-15 A		13-May-16		-402d															
Trough Internal Works																											
14982		TRB - Type II railing installation					38d	17-Aug-15 A		16-Apr-16		-129d															
VO177		VO177 - Emergency Access Gate at Trough Structure B					6d	16-May-16*		21-May-16		-157d															
SECTION 6 - ALL WORKS IN PORTION VI																											
Bridge B																											
Bridge Furniture & Finishes																											

◆

Current Milestone

▬

Level of Effort

▲

Baseline Milestone

▬

Actual Work

▬

▬

Critical Remaining Work

▬

▬

Remaining Work

▬

Project Baseline

Leighton Contractors (Asia) Limited

Programme Update 66 (March 2016)

THREE MONTH ROLLING

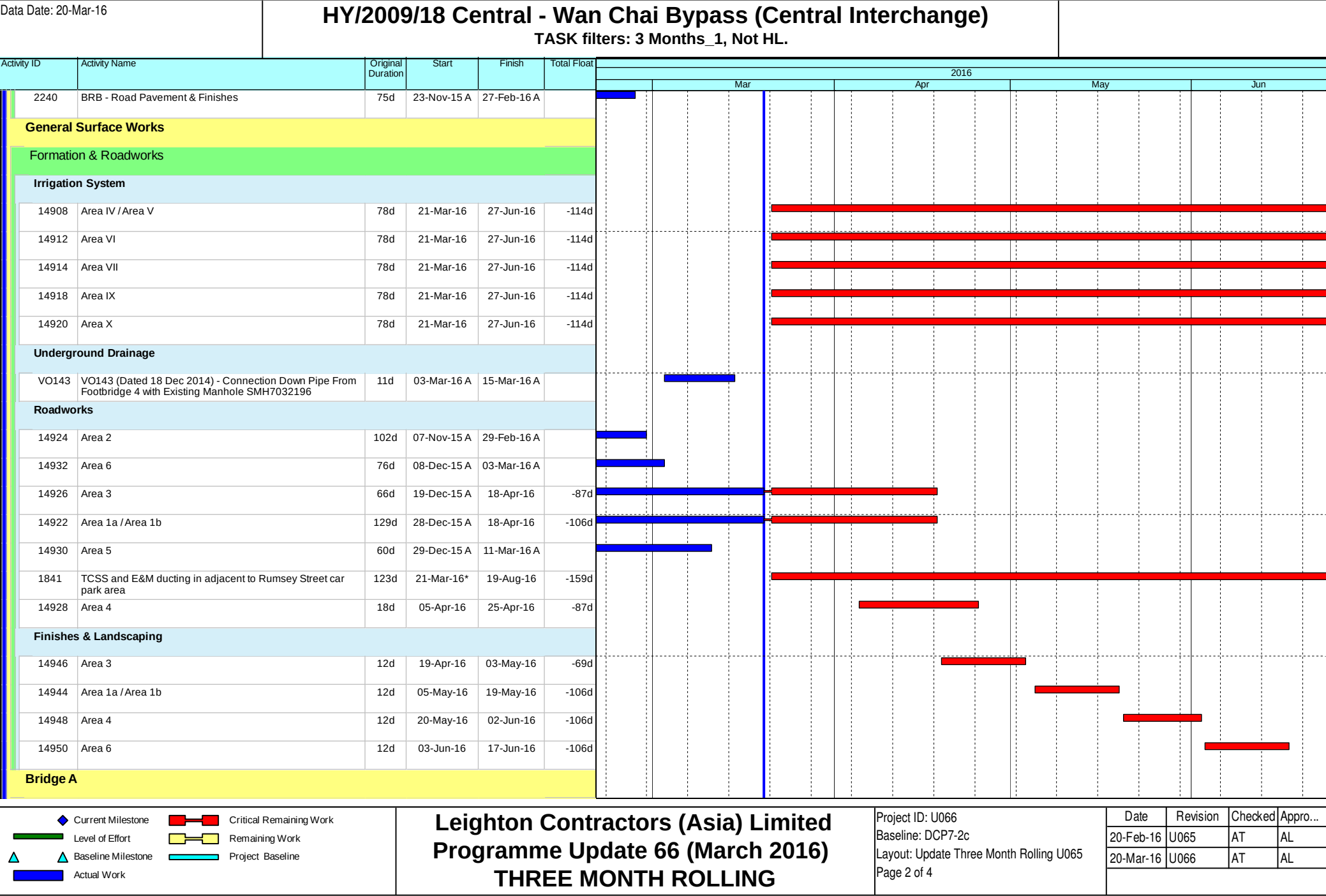
Project ID: U066

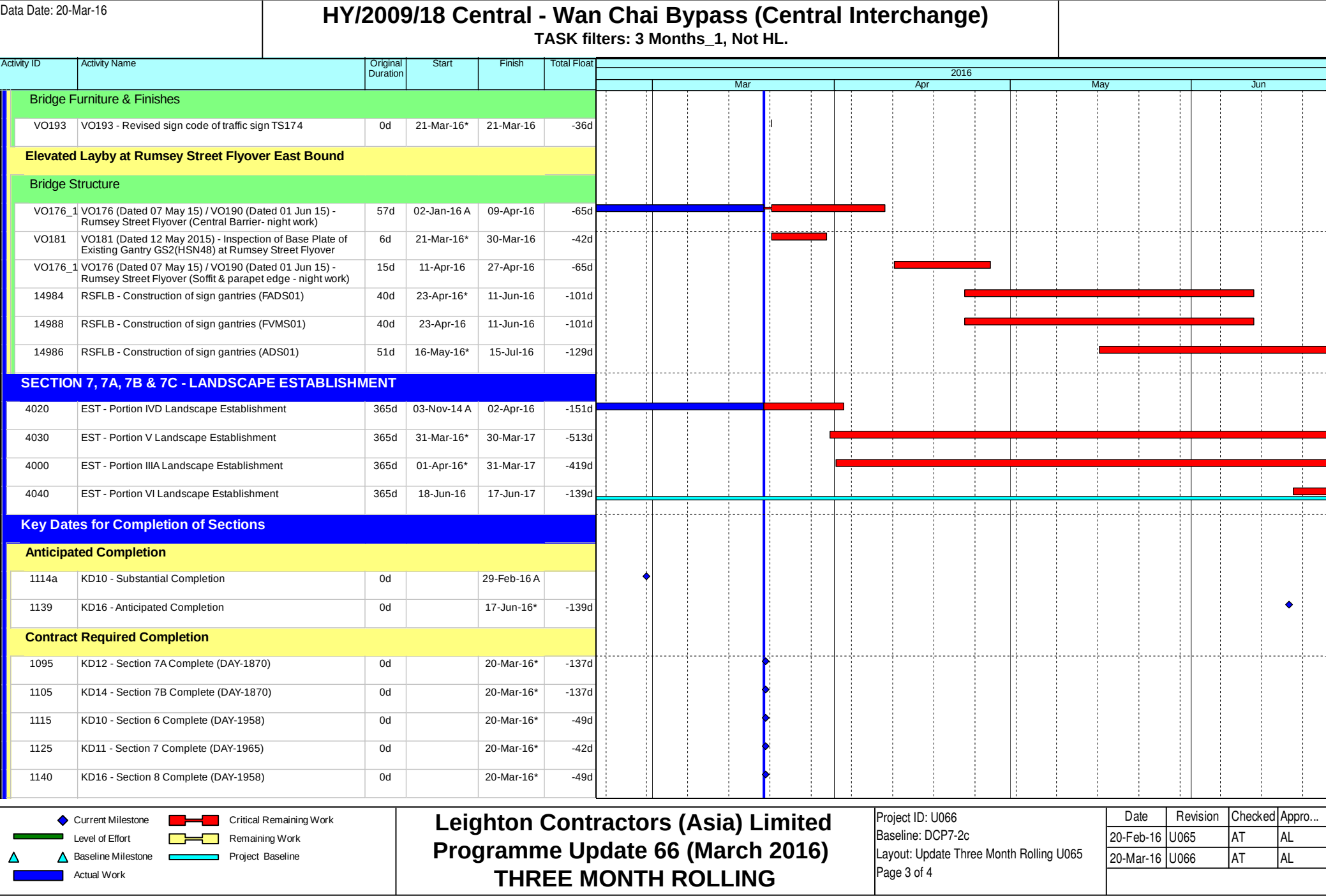
Baseline: DCP7-2c

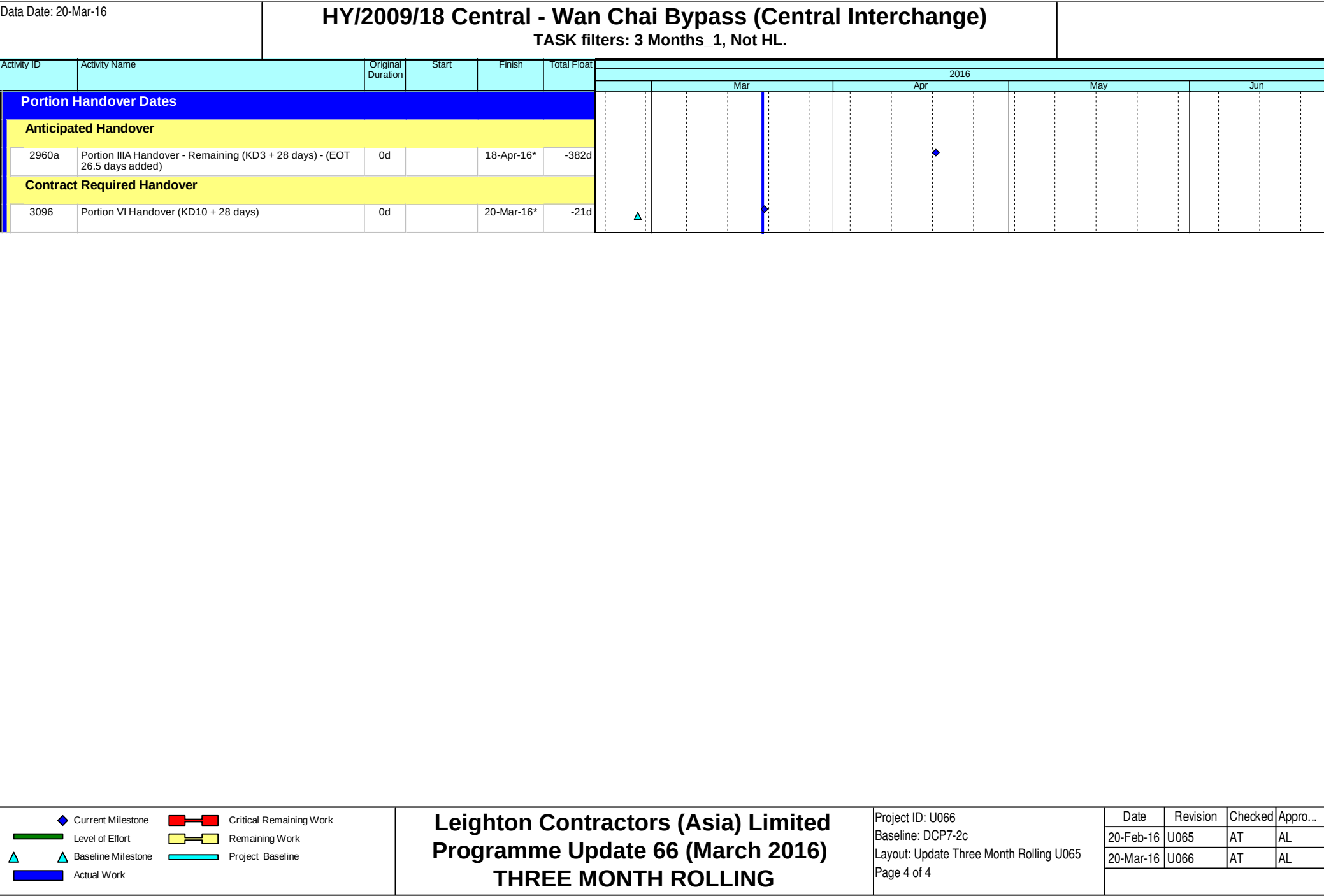
Layout: Update Three Month Rolling U065

Page 1 of 4

Date	Revision	Checked	Appro...
20-Feb-16	U065	AT	AL
20-Mar-16	U066	AT	AL







Activity ID	Activity Name	Rem Dur	Start	Finish	2016																
					February			March				April				May				June	
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05
3MRP - Feb 2015 to May 2016																					
02 - PRE-CONSTRUCTION WORKS																					
02.3 - Method Statement / Shop Drawings																					
0230-1380	MS Landscape Deck Structure - Submission	20	20-Jun-15 A	10-Mar-16																	
0230-1390	MS Landscape Deck Structure - ER Review & Comment	28	10-Mar-16	07-Apr-16																	
0230-1400	MS Landscape Deck Structure - Resubmission	28	07-Apr-16	05-May-16																	
0230-1410	MS Landscape Deck Structure - ER Approval	28	05-May-16	02-Jun-16																	
0230-1612	MS Noise Semi Enclosure - ER Review / Comment	0	16-Jan-16 A	24-Jan-16 A																	
0230-1613	MS Noise Semi Enclosure - Resubmission	0	25-Jan-16 A	03-Feb-16 A																	
0230-1614	MS Noise Semi Enclosure - No Adverse Comment	10	04-Feb-16 A	29-Feb-16																	
0230-1690	MS Approach Ramp - ER Approval	3	01-Feb-15 A	22-Feb-16																	
0230-2360	MS for Connection of EVB and EVA - ER No Adverse Comment	6	01-Jan-16 A	25-Feb-16																	
0240-1200	HGHK Permanent Carpark Design - ER/HGHK Approval	19	16-Jan-16 A	09-Mar-16																	
0240-1210	HGHK Permanent Carpark Design - BD Approval	30	10-Mar-16	08-Apr-16																	
0240-1220	HGHK Permanent Carpark Design- BD Approval Received	0		08-Apr-16																	
0240-1230	HGHK Carpark - Application for BD Consent (BA8)	28	09-Apr-16	06-May-16																	
0240-1240	HGHK Carpark - BD Consent Received	0		06-May-16																	
0240-1250	HGHK Carpark - Commencement Notification to BD (BA10)	7	07-May-16	13-May-16																	
0240-1270	Landscaping Design - Submission	28	20-Feb-16*	18-Mar-16																	
0240-1280	Landscaping Design - ER Review/Resubmission	28	19-Mar-16	15-Apr-16																	
0240-1290	Landscaping Design - ER Approval	28	16-Apr-16	13-May-16																	
0240-1295	Landscaping Design - Fabrication & Delivery	28	14-May-16	10-Jun-16																	
0240-1630	Green Wall Minimum 2 years Establishment	341	18-Apr-15 A	04-Apr-17																	
0240-1631	Green Roof Minimum 2 years Establishment	650	05-Apr-16	01-Jun-18																	
0240-2380	MS for erection of Beams at Pier 17-21 - ER Review / Comment	0	11-Jan-16 A	02-Feb-16 A																	
0240-2390	MS for erection of Beams at Pier 17-21 - Resubmission	28	03-Feb-16 A	18-Mar-16																	
0240-2391	MS for erection of Beams at Pier 17-21 - No Adverse Comment	28	19-Mar-16	15-Apr-16																	
0240-2440	MS for trial erection of green roof - Submission	1	20-Oct-15 A	20-Feb-16																	
0240-2450	MS for for trial erection of green roof - ER Review / Comment	15	20-Feb-16	06-Mar-16																	
0240-2460	MS for for trial erection of green roof - Resubmission	15	06-Mar-16	21-Mar-16																	
0240-2470	MS for for trial erection of green roof - No Adverse Comment	15	21-Mar-16	05-Apr-16																	
0240-2487	MS for Erection of LG-B at Pier 29 & 30 - No Adverse Comment	2	25-Dec-15 A	21-Feb-16																	
02.5 - Bridge Segment/Beam Off-site Precasting																					
0250-3860	Bridge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	20-Feb-16	12-Mar-16																	
0250-3880	Bridge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	20-Feb-16	09-Apr-16																	
0250-3900	Bridge F1B2 - Pier F2B2 Segment - 11 nos. (S1)	28	18-Apr-16	19-May-16																	
0250-3920	Bridge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	21-Mar-16	14-Apr-16																	
0250-3940	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	22-Apr-16	10-May-16																	
02.6 - Fabrication & Delivery of Noise Enclosure																					
Remaining Level of Effort Actual Level of Effort Actual Work		Remaining Work Critical Remaining Work Milestone		Contract HY/2009/19 3 Months Rolling Programme(as at 20-Feb-2016)										Page 1 of 13 24-Feb-16							

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																		
					February				March				April				May				June		
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05		
0260-5000	Int. Noise Enclosure Main + Sub Frames Fab / Del	32	01-Jun-15 A	30-Mar-16		Int. Noise Enclosure Main + Sub Frames Fab / Del																	
0260-5010	Int. Noise Enclosure Noise Panel Fab / Del	32	19-Jan-15 A	30-Mar-16		Int. Noise Enclosure Noise Panel Fab / Del																	
05 - SECTION 2 & 2A OF THE WORKS																							
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)																							
05.1.4 - APS & Tunnel Structure Outstanding Works																							
0513-3570	Plinth Erection for APS Area	15	15-Mar-16*	02-Apr-16		Plinth Erection for APS Area																	
0513-3580	Completion of Outstanding Works at APS & Tunnel	0		02-Apr-16*		◆ Completion of Outstanding Works at APS & Tunnel																	
05.1.6 - EVB Sub-structure & Tunnel																							
05.1.6 - EVB Outstanding Works																							
0515-2988	EVB Works(Zone 4-5) - Construction of Stair 03 - G.L 6/M-N - Part 1	0	23-Dec-15 A	18-Feb-16 A		EVB Works(Zone 4-5) - Construction of Stair 03 - G.L 6/M-N - Part 1																	
0515-2990	EVB Works(Zone 4-5) - Construction of Stair 03 - G.L 6/M-N - Part 2	7	16-Mar-16	23-Mar-16		EVB Works(Zone 4-5) - Construction of Stair 03 - G.L 6/M-N - Part 2																	
0515-2992	Removal of Formworks & Scaffoldings and Clearing of the Area	5	24-Mar-16	31-Mar-16		Removal of Formworks & Scaffoldings and Clearing of the Area																	
0515-2998	EVB Works(Zone 4-5) - Demolition of D-Wall > South - (Zone 4A-5A)	7	20-Feb-16	27-Feb-16		EVB Works(Zone 4-5) - Demolition of D-Wall > South - (Zone 4A-5A)																	
0515-3008	EVB Works(Zone 4-5) - CJ Preparation for South Wall along D-Wall - (Zone 4A-5A)	7	29-Feb-16	07-Mar-16		EVB Works(Zone 4-5) - CJ Preparation for South Wall along D-Wall - (Zone 4A-5A)																	
0515-3018	EVB Works(Zone 4-5) - Construction of South Wall along D-Wall + Stitching to Roof Slab - (Zone 4A-5A)	7	08-Mar-16	15-Mar-16		EVB Works(Zone 4-5) - Construction of South Wall along D-Wall + Stitching to Roof Slab - (Zone 4A-5A)																	
0515-3058	EVB Works(Zone 2) - Construction of North Wall along D-Wall + Roof Slab	11	17-Feb-16 A	03-Mar-16		EVB Works(Zone 2) - Construction of North Wall along D-Wall + Roof Slab																	
0515-3060	EVB Works(Zone 2) - Wall & Roof Slab - G.L 4-6/A-B	4	19-Feb-16 A	24-Feb-16		EVB Works(Zone 2) - Wall & Roof Slab - G.L 4-6/A-B																	
0515-3078	EVB Works(Zone 2) -Construction Basement Level G.L > 6-7/A-B	8	18-Jan-16 A	29-Feb-16		EVB Works(Zone 2) -Construction Basement Level G.L > 6-7/A-B																	
0515-3088	EVB Works(Zone 2) -Demolition of South D-Wall - G.L > 6-7/A	11	01-Mar-16	12-Mar-16		EVB Works(Zone 2) -Demolition of South D-Wall - G.L > 6-7/A																	
0515-3090	EVB Works(Zone 2) - CJ Preparation for South Wall along D-Wall - G.L > 6-7/A-B	7	14-Mar-16	21-Mar-16		EVB Works(Zone 2) - CJ Preparation for South Wall along D-Wall - G.L > 6-7/A-B																	
0515-3091	EVB Works(Zone 2) - Construction Stair 01	7	22-Mar-16	31-Mar-16		EVB Works(Zone 2) - Construction Stair 01																	
0515-3093	EVB Works(Zone 2) -Installation of Sheetpile - G.L > 6-7/A-B	5	01-Mar-16	05-Mar-16		EVB Works(Zone 2) -Installation of Sheetpile - G.L > 6-7/A-B																	
0515-3094	EVB Works(Zone 2) -Demolition of South D-Wall + Excavation - G.L > 6-7/A-B	9	07-Mar-16	16-Mar-16		EVB Works(Zone 2) -Demolition of South D-Wall + Excavation - G.L > 6-7/A-B																	
0515-3095	EVB Works(Zone 2) -Mass Concrete + Waterproofing	5	17-Mar-16	22-Mar-16		EVB Works(Zone 2) -Mass Concrete + Waterproofing																	
0515-3096	EVB Works(Zone 2) -Construction Wall and Stair 06 G.L > 6-7/A-B	6	23-Mar-16	31-Mar-16		EVB Works(Zone 2) -Construction Wall and Stair 06 G.L > 6-7/A-B																	
0515-3098	EVB Works(Zone 4-5) - Clearing & Demobilazation of EVB	7	01-Apr-16	09-Apr-16		EVB Works(Zone 4-5) - Clearing & Demobilazation of EVB																	
0515-3099	Complete EVB Works Outstanding Works	0		09-Apr-16*		◆ Complete EVB Works Outstanding Works																	
05.1.7 - Connection to EVA																							
0515-3200	EVA - ELS INSTALLATION - Install grout tube (EVA Outer Side)	1	01-Feb-16 A	20-Feb-16		EVA - ELS INSTALLATION - Install grout tube (EVA Outer Side)																	
0515-3210	EVA - ELS INSTALLATION - TAM Grouting	8	22-Feb-16	01-Mar-16		EVA - ELS INSTALLATION - TAM Grouting																	
0515-3220	EVA - ELS INSTALLATION - Install grout tube (EVA Inner Side)	10	02-Mar-16	12-Mar-16		EVA - ELS INSTALLATION - Install grout tube (EVA Inner Side)																	
0515-3230	EVA - ELS INSTALLATION - TAM Grouting	10	14-Mar-16	24-Mar-16		EVA - ELS INSTALLATION - TAM Grouting																	
0515-3232	EVA - ELS INSTALLATION - Hand over back to CSHK to remove the existing material	5	26-Mar-16	01-Apr-16*		EVA - ELS INSTALLATION - Hand over back to CSHK to remove the existing material																	
0515-3240	EVA - INVETIGATION OF WATER CUT OFF - Erection of working platform	3	26-Mar-16	30-Mar-16		EVA - INVETIGATION OF WATER CUT OFF - Erection of working platform																	
0515-3250	EVA - INVETIGATION OF WATER CUT OFF - Remove steel support	2	31-Mar-16	01-Apr-16		EVA - INVETIGATION OF WATER CUT OFF - Remove steel support																	
0515-3260	EVA - INVETIGATION OF WATER CUT OFF - Setting out the location of EVA on D-wall	1	02-Apr-16	02-Apr-16		EVA - INVETIGATION OF WATER CUT OFF - Setting out the location of EVA on D-wall																	
0515-3270	EVA - INVETIGATION OF WATER CUT OFF - Drill 3 holes at top of each area and investigate	1	02-Apr-16	02-Apr-16		EVA - INVETIGATION OF WATER CUT OFF - Drill 3 holes at top of each area and investigate																	
0515-3280	EVA - INVETIGATION OF WATER CUT OFF - Drill 3 holes at middle of each area and investigate	1	02-Apr-16	02-Apr-16		EVA - INVETIGATION OF WATER CUT OFF - Drill 3 holes at middle of each area and investigate																	
0515-3290	EVA - INVETIGATION OF WATER CUT OFF - Drill 3 holes at bottom of each area and investigate	1	02-Apr-16	02-Apr-16		EVA - INVETIGATION OF WATER CUT OFF - Drill 3 holes at bottom of each area and investigate																	

 Remaining Level of Effort Actual Level of Effort  Actual Work	 Remaining Work Critical Remaining Work   Milestone	Contract HY/2009/19 3 Months Rolling Programme(as at 20-Feb-2016)	Page 2 of 13 24-Feb-16
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Activity ID	Activity Name	Rem Dur	Start	Finish	2016																
					February				March				April				May				June
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05
	0515-3300	EVA - SAW CUTTING - Excavate the rock fill	5	05-Apr-16	09-Apr-16																
	0515-3302	EVA - SAW CUTTING - Erection of platform for core hole	6	11-Apr-16	16-Apr-16																
	0515-3310	EVA - SAW CUTTING - Core hole for saw cut (156 nos.)(5 set of coring machine)	17	18-Apr-16	06-May-16																
	0515-3320	EVA - SAW CUTTING - Saw cut (8 nos. Horz. and 9 nos. Vert. cut, 12 hrs per day)	14	07-May-16	23-May-16																
	0515-3330	EVA - SAW CUTTING - Remove Cutaway	16	07-May-16	25-May-16																
06 - SECTION 3 OF THE WORKS																					
06.3 - Admin Building																					
Admin Building - Add'l Excavation & Blinding to Ground Slab																					
630-3091	ADB(Pier29-30)> West Basement (GL > 3-6/C-F) - Install Strut and Waling Support	0	20-Jan-16 A	13-Feb-16 A	ADB(Pier29-30)> West Basement (GL > 3-6/C-F) - Install Strut and Waling Support																
630-3093	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Locking Plate + Strut and Waling Support	0	15-Feb-16 A	19-Feb-16 A	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Locking Plate + Strut and Waling Support																
630-3095	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to Ground Beam Formation level + blinding	1	15-Feb-16 A	20-Feb-16	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to Ground Beam Formation level + blinding																
630-3116	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to -1.0mPD - Sumpit Area	3	22-Feb-16	24-Feb-16	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to -1.0mPD - Sumpit Area																
630-3120	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Strut and Waling Support	3	25-Feb-16	27-Feb-16	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Strut and Waling Support																
630-3220	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to Formation level - (Sump Pits)	5	29-Feb-16	04-Mar-16	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to Formation level - (Sump Pits)																
630-3340	ADB (Pier29-30)West Basement (GL > 3-6/C-F) - Cast Blinding to Sump Pits	1	05-Mar-16	05-Mar-16	ADB (Pier29-30)West Basement (GL > 3-6/C-F) - Cast Blinding to Sump Pits																
630-3364	ADB(Pier29) - (GL > 1-6/A-C) - Compaction of Ground level + Blinding	0	26-Jan-16 A	15-Feb-16 A	ADB Pier29) - (GL > 1-6/A-C) - Compaction of Ground level + Blinding																
630-3366	ADB(Pier30-32) - (GL > 1-6/F-N) - Excav Temporary Backfill of Ground Beams - Part 1 (before CNY)	0	22-Jan-16 A	05-Feb-16 A	ADB(Pier30-32) - (GL > 1-6/F-N) - Excav Temporary Backfill of Ground Beams - Part 1 (before CNY)																
630-3368	ADB(Pier30-32) - (GL > 1-6/F-N) - Complete Excav Temporary Backfill + Compaction - Part 2 (after CNY)	4	15-Feb-16 A	24-Feb-16	ADB(Pier30-32) - (GL > 1-6/F-N) - Complete Excav Temporary Backfill + Compaction - Part 2 (after CNY)																
630-3370	ADB(Pier30-32) - (GL > 1-6/F-N) - Fwk for Vertical Blinding + Blinding	8	25-Feb-16	04-Mar-16	ADB(Pier30-32) - (GL > 1-6/F-N) - Fwk for Vertical Blinding + Blinding																
630-3380	ADB(Pier29-30) Basement Complete Add'l Excavation & Blinding	0		05-Mar-16*	ADB(Pier29-30) Basement Complete Add'l Excavation & Blinding																
Admin Building - Remaining Drainage Works (yellow)																					
0630-2355	Drainage (Pier 33 -34) - Excav for Manhole & 450 Pipes (2nos MH+ 28.24m 450D Pipes)	1	16-Feb-16 A	20-Feb-16	Drainage (Pier 33 -34) - Excav for Manhole & 450 Pipes (2nos MH+ 28.24m 450D Pipes)																
0630-2357	Drainage (Pier 33 -34) - Construct Manhole (2 Nos)	7	22-Feb-16	29-Feb-16	Drainage (Pier 33 -34) - Construct Manhole (2 Nos)																
0630-2359	Drainage (Pier 33 -34) - Lay Pipes & Concrete Surrounds (28.24m)	7	23-Feb-16	01-Mar-16	Drainage (Pier 33 -34) - Lay Pipes & Concrete Surrounds (28.24m)																
0630-2361	Drainage (Pier 33 -34) - Backfill to Finish Level	3	02-Mar-16	04-Mar-16	Drainage (Pier 33 -34) - Backfill to Finish Level																
0630-2363	Drainage (Pier 32 -33) - Excav for Manhole & Pipes (2nos MH+ 4.24m 300D & 2.67m 375D Pipes)	1	22-Feb-16	22-Feb-16	Drainage (Pier 32 -33) - Excav for Manhole & Pipes (2nos MH+ 4.24m 300D & 2.67m 375D Pipes)																
0630-2365	Drainage (Pier 32 -33) - Construct Manhole (2 Nos)	7	23-Feb-16	01-Mar-16	Drainage (Pier 32 -33) - Construct Manhole (2 Nos)																
0630-2367	Drainage (Pier 32 -33) - Lay Pipes & Concrete Surrounds (6.91m)	4	26-Feb-16	01-Mar-16	Drainage (Pier 32 -33) - Lay Pipes & Concrete Surrounds (6.91m)																
0630-2369	Drainage (Pier 32 -33) - Backfill to Finish Level	3	02-Mar-16	04-Mar-16	Drainage (Pier 32 -33) - Backfill to Finish Level																
0630-2371	Drainage (Pier 31) - Excav for Pipes (6.85m 450D & 4.75m 225D Pipes)	1	23-Feb-16	23-Feb-16	Drainage (Pier 31) - Excav for Pipes (6.85m 450D & 4.75m 225D Pipes)																
0630-2373	Drainage (Pier 31) - Lay Pipes & Concrete Surrounds (11.60m)	3	26-Feb-16	29-Feb-16	Drainage (Pier 31) - Lay Pipes & Concrete Surrounds (11.60m)																
0630-2375	Drainage (Pier 31) - Backfill to Finish Level	3	01-Mar-16	03-Mar-16	Drainage (Pier 31) - Backfill to Finish Level																
0630-2376	Cleaning Works & CCTV to 1500D Drain	7	26-Feb-16	04-Mar-16	Cleaning Works & CCTV to 1500D Drain																
0630-2378	Manhole (Pier 29-30) - Outstanding Works to Manhole > Raised-up to Cover Level	8	26-Feb-16	05-Mar-16	Manhole (Pier 29-30) - Outstanding Works to Manhole > Raised-up to Cover Level																
Admin Building - Misc Items																					
0610-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding	3	16-Feb-16 A	23-Feb-16	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding																
0610-1900	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Construction	9	24-Feb-16	04-Mar-16	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Construction																
0630-2513	Erection of Revised Structural Support of Pier 29 Obstructing Construction of ADB Substructure	5	17-Feb-16 A	25-Feb-16	Erection of Revised Structural Support of Pier 29 Obstructing Construction of ADB Substructure																
0630-2515	Erection of Revised Structural Support of Pier 30 Obstructing Construction of ADB Substructure	7	26-Feb-16	04-Mar-16	Erection of Revised Structural Support of Pier 30 Obstructing Construction of ADB Substructure																

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Milestone

Contract HY/2009/19

3 Months Rolling Programme(as at 20-Feb-2016)

Page 3 of 13

24-Feb-16

Activity ID		Activity Name	Rem Dur	Start	Finish
2016					
0630-2518		Reconstruction of Special Hoarding	0	23-Jan-16 A	31-Jan-16 A
Admin Building - Outstanding Works After Hanover to CC					
0630-2630		Drainage (Pier 34) - Excav for Manhole & Pipes (2nos MH+ 20.85m 450D & 9.32m 225D Pipes)	3	07-Mar-16	09-Mar-16
0630-2640		Drainage (Pier 32 -33) - Construct Manhole (2 Nos)	7	10-Mar-16	17-Mar-16
0630-2650		Drainage (Pier 32 -33) - Lay Pipes & Concrete Surrounds (30.17m)	8	15-Mar-16	23-Mar-16
0630-2660		Drainage (Pier 32 -33) - Backfill to Finish Level	4	24-Mar-16	30-Mar-16
0630-2670		Drainage (Pier 32-33) - Excav for Manhole & Pipes (4nos MH+ 7.20m 450D & 18.70 225D Pipes)	3	10-Mar-16	12-Mar-16
0630-2680		Drainage (Pier 32 -33) - Construct Manhole (4 Nos)	14	14-Mar-16	31-Mar-16
0630-2690		Drainage (Pier 32 -33) - Lay Pipes & Concrete Surrounds (25.90m)	7	29-Mar-16	06-Apr-16
0630-2700		Drainage (Pier 32 -33) - Backfill to Finish Level	4	07-Apr-16	11-Apr-16
0630-2705		Construct Road Pavement Between P31-32 within Porion VB incl sub-base	7	08-Apr-16	15-Apr-16
0630-2710		Structural Support of Pier 29 - Finishing-up Weld/Bold Connections Above ADB Level	7	05-Mar-16	12-Mar-16
0630-2720		Structural Support of Pier 30 - Finishing-up Weld/Bold Connections Above ADB Level	7	14-Mar-16	21-Mar-16
0630-2730		Admin Building - Complete Outstanding Works	0		15-Apr-16*
Admin Building - Ground Beams to be Completed after CC Basement (Timing to be Confirmed)					
0630-1880		Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles	4	23-Mar-16	29-Mar-16
0630-1900		Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting	5	30-Mar-16	05-Apr-16
0630-1920		Grd. Beam - (GL > P-R) - Install Capping Plate	6	05-Apr-16	11-Apr-16
0630-1940		Grd. Beam - (GL > P-R) - Rebar Fixing for Beam	7	08-Apr-16	15-Apr-16
0630-1960		Grd. Beam - (GL > P-R) - Erect Formworks for Beam	4	16-Apr-16	20-Apr-16
0630-1980		Grd. Beam - (GL > P-R) - Cast Concrete for Beam	1	21-Apr-16	21-Apr-16
0630-2000		Grd. Beam - (GL > P-R) - Formworks Removal	1	22-Apr-16	22-Apr-16
0630-2036		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1st Layer Excav Approx. +2.5mPD	3	23-Mar-16	26-Mar-16
0630-2037		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Install Strut and Waling Support	4	29-Mar-16	01-Apr-16
0630-2038		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 2nd Layer Excav to Ground Beam Formation level + blinding	3	02-Apr-16	06-Apr-16
0630-2040		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Prepare CJ + Install Capping Plate	3	07-Apr-16	09-Apr-16
0630-2080		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Rebar Fixing for Ground Beam	5	08-Apr-16	13-Apr-16
0630-2100		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Erect Formworks for Ground Beam	4	14-Apr-16	18-Apr-16
0630-2120		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Cast Concrete for Ground Beam	1	19-Apr-16	19-Apr-16
0630-2140		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Formworks Removal	2	20-Apr-16	21-Apr-16
0630-2160		Complete ADB Ground Beam (Portion VD)	0		21-Apr-16
10 - SECTION X OF THE WORKS					
10.1 - E/B Bridges (Bridge D, E and F)					
10.1.1 - Marine Pier Construction					
Pier F01 to F02					
1011-8600		F1B Pier/Column Construction	12	20-Feb-16	04-Mar-16
1011-8620		F1B Crosshead Construction	18	05-Mar-16	26-Mar-16
1011-8640		Bearing installation pier F1B & F2B	12	29-Mar-16	12-Apr-16
10.2 - W/B Bridges (Bridge C and F)					
Remaining Level of Effort		Remaining Work			
Actual Level of Effort		Critical Remaining Work			
Actual Work		Milestone			
Contract HY/2009/19					
3 Months Rolling Programme(as at 20-Feb-2016)					
Page 4 of 13 24-Feb-16					

Activity ID		Activity Name				Rem Dur	Start	Finish	2016																									
									February				March				April				May				June									
									14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05									
10.2.1 - Pier Construction																																		
Pier 38 to 43																																		
1021-1844	Pier 38 (F3C) - Erection of Scaffolding					0	20-Jan-16 A	05-Feb-16 A	Pier 38 (F3C) - Erection of Scaffolding																									
1021-1845	Pier 38 (F3C) - Place bottom formwork for working platform					0	11-Feb-16 A	19-Feb-16 A	Pier 38 (F3C) - Place bottom formwork for working platform																									
1021-1846	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Bottom Layer					2	20-Feb-16	22-Feb-16	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Bottom Layer																									
1021-1847	Pier 38 (F3C) - Installation of case-in items					3	23-Feb-16	25-Feb-16	Pier 38 (F3C) - Installation of case-in items																									
1021-1848	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Upper Layer					2	26-Feb-16	27-Feb-16	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Upper Layer																									
1021-1849	Pier 38 (F3C) - Installation of tie-bolts					2	29-Feb-16	01-Mar-16	Pier 38 (F3C) - Installation of tie-bolts																									
1021-1850	Pier 38 (F3C) - Pouring concrete for crosshead					1	03-Mar-16	03-Mar-16	Pier 38 (F3C) - Pouring concrete for crosshead																									
1021-1851	Pier 38 (F3C) - Remove formwork and prepare construction joint					2	04-Mar-16	05-Mar-16	Pier 38 (F3C) - Remove formwork and prepare construction joint																									
1021-1852	Pier 38 (F3C) - Remove formwork and scaffolding					2	09-Mar-16	10-Mar-16	Pier 38 (F3C) - Remove formwork and scaffolding																									
1021-1853	Pier 38 (F3C) - Remove structural steel of falsework					3	11-Mar-16	14-Mar-16	Pier 38 (F3C) - Remove structural steel of falsework																									
1021-1880	Pier 38 (F3C) Install Bearing					9	07-Mar-16	16-Mar-16	Pier 38 (F3C) Install Bearing																									
1021-1928	Pier 39 (F4C) - Fixing Reinforcement for Crosshead Upper Layer					0	22-Jan-16 A	23-Jan-16 A	Pier 39 (F4C) - Fixing Reinforcement for Crosshead Upper Layer																									
1021-1929	Pier 39 (F4C) - Installation of tie-bolts					0	24-Jan-16 A	25-Jan-16 A	Pier 39 (F4C) - Installation of tie-bolts																									
1021-1930	Pier 39 (F4C) - Pouring concrete for crosshead					0	26-Jan-16 A	26-Jan-16 A	Pier 39 (F4C) - Pouring concrete for crosshead																									
1021-1931	Pier 39 (F4C) - Remove formwork and prepare construction joint					0	27-Jan-16 A	29-Jan-16 A	Pier 39 (F4C) - Remove formwork and prepare construction joint																									
1021-1932	Pier 39 (F4C) - Remove formwork and scaffolding					0	28-Jan-16 A	30-Jan-16 A	Pier 39 (F4C) - Remove formwork and scaffolding																									
1021-1933	Pier 39 (F4C) - Remove structural steel of falsework					5	20-Feb-16	25-Feb-16	Pier 39 (F4C) - Remove structural steel of falsework																									
1021-1960	Pier 39 (F4C) Install Bearing					9	20-Feb-16	01-Mar-16	Pier 39 (F4C) Install Bearing																									
1021-2001	Pier 40 (F5C) - Drill holes for steel rod (24nos 30mm dim)					3	20-Feb-16	23-Feb-16	Pier 40 (F5C) - Drill holes for steel rod (24nos 30mm dim)																									
1021-2002	Pier 40 (F5C) - Erection of UC at the bottom layer (305x305x158UC)					4	24-Feb-16	27-Feb-16	Pier 40 (F5C) - Erection of UC at the bottom layer (305x305x158UC)																									
1021-2003	Pier 40 (F5C) - Erection of UC at the 2nd layer (254x124 UB)					3	29-Feb-16	02-Mar-16	Pier 40 (F5C) - Erection of UC at the 2nd layer (254x124 UB)																									
1021-2004	Pier 40 (F5C) - Erection of Scaffolding					4	03-Mar-16	07-Mar-16	Pier 40 (F5C) - Erection of Scaffolding																									
1021-2005	Pier 40 (F5C) - Place bottom formwork for working platform					4	08-Mar-16	11-Mar-16	Pier 40 (F5C) - Place bottom formwork for working platform																									
1021-2006	Pier 40 (F5C) - Fixing Reinforcement for Crosshead Bottom Layer					11	12-Mar-16	24-Mar-16	Pier 40 (F5C) - Fixing Reinforcement for Crosshead Bottom Layer																									
1021-2007	Pier 40 (F5C) - Installation of case-in items					2	26-Mar-16	29-Mar-16	Pier 40 (F5C) - Installation of case-in items																									
1021-2008	Pier 40 (F5C) - Fixing Reinforcement for Crosshead Upper Layer					3	30-Mar-16	01-Apr-16	Pier 40 (F5C) - Fixing Reinforcement for Crosshead Upper Layer																									
1021-2009	Pier 40 (F5C) - Installation of tie-bolts					2	02-Apr-16	05-Apr-16	Pier 40 (F5C) - Installation of tie-bolts																									
1021-2010	Pier 40 (F5C) - Pouring concrete for crosshead					1	06-Apr-16	06-Apr-16	Pier 40 (F5C) - Pouring concrete for crosshead																									
1021-2011	Pier 40 (F5C) - Remove formwork and prepare construction joint					3	07-Apr-16	09-Apr-16	Pier 40 (F5C) - Remove formwork and prepare construction joint																									
1021-2012	Pier 40 (F5C) - Remove formwork and scaffolding					3	13-Apr-16	15-Apr-16	Pier 40 (F5C) - Remove formwork and scaffolding																									
1021-2013	Pier 40 (F5C) - Remove structural steel of falsework					3	16-Apr-16	19-Apr-16	Pier 40 (F5C) - Remove structural steel of falsework																									
1021-2040	Pier 40 (F5C) Install Bearing					9	11-Apr-16	20-Apr-16	Pier 40 (F5C) Install Bearing																									
1021-2081	Pier 41 (F6C) - Drill holes for steel rod (24nos 30mm dim)					3	20-Feb-16	23-Feb-16	Pier 41 (F6C) - Drill holes for steel rod (24nos 30mm dim)																									
1021-2082	Pier 41 (F6C) - Erection of UC at the bottom layer (305x305x158UC)					4	24-Feb-16	27-Feb-16	Pier 41 (F6C) - Erection of UC at the bottom layer (305x305x158UC)																									
1021-2083	Pier 41 (F6C) - Erection of UC at the 2nd layer (254x124 UB)					4	29-Feb-16	03-Mar-16	Pier 41 (F6C) - Erection of UC at the 2nd layer (254x124 UB)																									
1021-2084	Pier 41 (F6C) - Erection of Scaffolding					6	04-Mar-16	10-Mar-16	Pier 41 (F6C) - Erection of Scaffolding																									
1021-2085	Pier 41 (F6C) - Place bottom formwork for working platform					4	11-Mar-16	15-Mar-16	Pier 41 (F6C) - Place bottom formwork for working platform																									

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Contract HY/2009/19

3 Months Rolling Programme(as at 20-Feb-2016)

Page 5 of 13

24-Feb-16

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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	1021-2086	Pier 41 (F6C) - Fixing Reinforcement for Crosshead Bottom Layer	2	16-Mar-16	17-Mar-16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Remaining Level of Effort

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Contract HY/2009/19

3 Months Rolling Programme(as at 20-Feb-2016)

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																				
					February					March					April					May				June	
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05				
	1021-1691	Pier 37 (F2C) - Remove formwork and prepare construction joint	0	25-Jan-16 A	28-Jan-16 A	Remove formwork and prepare construction joint																			
	1021-1694	Pier 37 (F2C) - Remove formwork and scaffolding	0	30-Jan-16 A	02-Feb-16 A	Remove formwork and scaffolding																			
	1021-1697	Pier 37 (F2C) - Remove structural steel of falsework	0	03-Feb-16 A	05-Feb-16 A	F2C) - Remove structural steel of falsework																			
	1022-1920	Pier 37 (F2C) Install Bearing + Segment	0	03-Feb-16 A	05-Feb-16 A	F2C) Install Bearing + Segment																			
Pier 20 to 25																									
	1021-1100	Pier 25 Reconstruct Crosshead	0	05-Jan-16 A	28-Jan-16 A	Crosshead																			
	1021-1120	Pier 25 Install Bearing	0	29-Jan-16 A	05-Feb-16 A	Install Bearing																			
	1021-1360	Pier 23 Install Bearing	0	08-Jan-16 A	17-Feb-16 A	Pier 23 Install Bearing																			
	1021-1430	Pier 22 Install Bearing	6	18-Jan-16 A	27-Feb-16	Pier 22 Install Bearing																			
Pier 17 to 19																									
	1021-1215	Modify Pier 21 Crosshead (south wing) + Bearing	16	21-Dec-15 A	09-Mar-16	Modify Pier 21 Crosshead (south wing) + Bearing																			
	1021-1225	Modify Pier 20 Crosshead (south wing) + Bearing	29	21-Dec-15 A	24-Mar-16	Modify Pier 20 Crosshead (south wing) + Bearing																			
	1021-1230	Modify Pier 19 Crosshead (south wing) + Bearing	29	20-Nov-15 A	24-Mar-16	Modify Pier 19 Crosshead (south wing) + Bearing																			
	1021-1235	Modify Pier 18 Crosshead (south wing) + Bearing	29	23-Oct-15 A	24-Mar-16	Modify Pier 18 Crosshead (south wing) + Bearing																			
10.2.2 - Bridge Construction																									
Bridge C1																									
	1022-1000	Bridge C1 - Precast Beams Pier 17-21 W/B (9 nos)	9	16-Apr-16	26-Apr-16						Bridge C1 - Precast Beams Pier 17-21 W/B (9 nos)														
	1022-1001	Bridge C1 - Construction (Pier 17 - 21) > Erect Scaffoldings + Platform + Pre-cast Planking	7	20-Apr-16	27-Apr-16						Bridge C1 - Construction (Pier 17 - 21) > Erect Scaffoldi														
	1022-1002	Bridge C1 - Construction (Pier 17 - 21) > Rebar Fixing of Deck + Diaphragm + Concreting	20	28-Apr-16	20-May-16						Bridge C1 - Construction														
Bridge C2																									
	1022-2750	Bridge C2 - Erect 6nos Pre-cast Beams - by 400T Crane	9	10-Mar-16	19-Mar-16	Bridge C2 - Erect 6nos Pre-cast Beams - by 400T Crane																			
	1022-2751	Bridge C2 - Construction (Pier 21 - 22) > Erect Scaffoldings + Platform + Pre-cast Planking	7	21-Mar-16	30-Mar-16	Bridge C2 - Construction (Pier 21 - 22) > Erect Scaffoldings + Platform + Pre-cast Planking																			
	1022-2752	Bridge C2 - Construction (Pier 21 - 22) > Rebar Fixing of Deck + Diaphragm + Concreting	20	31-Mar-16	23-Apr-16	Bridge C2 - Construction (Pier 21 - 22) > Rebar Fixing of Deck																			
	1022-2753	Bridge C2 - Construction (Pier 21- 22) > Construct Parapet (North & South)	14	25-Apr-16	10-May-16	Bridge C2 - Construction (Pier 21- 22																			
	1022-2755	Bridge C2 - Construction (Pier 21-22) > Install Street Furniture/GullyEtc.	14	25-Apr-16	10-May-16	Bridge C2 - Construction (Pier 21-22)																			
	1022-2756	Bridge C2 - Construction (Pier 21-22) > Install MJ at Pier 22	7	11-May-16	18-May-16	Bridge C2 - Construction (																			
	1022-2800	Bridge C2 - Erect Pier Segment at Pier 24 (1 no) > by 400T Crane	6	22-Mar-16	30-Mar-16	Bridge C2 - Erect Pier Segment at Pier 24 (1 no) > by 400T Crane																			
	1022-2802	Dismantle/Demobilize 400T Crane between Pier 25 & 24	1	23-Mar-16	23-Mar-16	Dismantle/Demobilize 400T Crane between Pier 25 & 24																			
	1022-2804	Bridge C2 - Erect falsework for End Span at Pier 25 - Westside	5	24-Mar-16	31-Mar-16	Bridge C2 - Erect falsework for End Span at Pier 25 - Westside																			
	1022-2805	Launch LG2 at Pier 25 to 24	2	01-Apr-16	02-Apr-16	Launch LG2 at Pier 25 to 24																			
	1022-2807	Bridge C2 - Erect End-span at Pier 25 Westside (5 nos)S > By LG2	7	05-Apr-16	12-Apr-16	Bridge C2 - Erect End-span at Pier 25 Westside (5 nos)S > By LG2																			
	1022-2820	Bridge C2 - Erect T-span at Pier 24 (10 nos) > By LG2	3	05-Apr-16	07-Apr-16	Bridge C2 - Erect T-span at Pier 24 (10 nos) > By LG2																			
	1022-2822	Bridge C2 - Stitching at midspan between Pier 24 and 25	3	08-Apr-16	11-Apr-16	Bridge C2 - Stitching at midspan between Pier 24 and 25																			
	1022-2824	Launch LG2 at Pier 23 to 22	2	12-Apr-16	13-Apr-16	Launch LG2 at Pier 23 to 22																			
	1022-2826	Bridge C2 - Erect T-span at Pier 23 (12 nos) > By LG2	3	14-Apr-16	16-Apr-16	Bridge C2 - Erect T-span at Pier 23 (12 nos) > By LG2																			
	1022-2827	Bridge C2 - Erect End-span at Pier 22 (4 nos) > By LG2	7	14-Apr-16	21-Apr-16	Bridge C2 - Erect End-span at Pier 22 (4 nos) > By LG2																			
	1022-2828	Dismantle LG2 at Bridge C2	15	22-Apr-16	09-May-16	Dismantle LG2 at Bridge C2																			
	1022-2829	Bridge C2 - Erect Pier Segment at Pier 22 (1 no) > by 400T Crane	6	27-Feb-16	05-Mar-16	Bridge C2 - Erect Pier Segment at Pier 22 (1 no) > by 400T Crane																			
	1022-2846	Bridge C2 - Erect Pier Segment at Pier 23 (1 no) > by 400T Crane	6	21-Mar-16	29-Mar-16	Bridge C2 - Erect Pier Segment at Pier 23 (1 no) > by 400T Crane																			

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

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 Milestone

Contract HY/2009/19

3 Months Rolling Programme(as at 20-Feb-2016)

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																
					February			March			April				May				June		
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05
Bridge C2	1022-2851	Bridge C2 - Erect falsework for End Span at Pier 22 - Eastside	5	21-Mar-16	26-Mar-16																
	1022-2920	Bridge C2 - Stitching at midspan between Pier 23 and 24	3	18-Apr-16	20-Apr-16																
	1022-2980	Bridge C2 - Stitching at midspan between Pier 22 and 23	3	22-Apr-16	25-Apr-16																
	1022-3020	Bridge C2 - External Stressing	7	26-Apr-16	03-May-16																
	1022-3040	Bridge C2 - Construct North Parapet - Excl. Pier 21-22	18	10-May-16	30-May-16																
	1022-3180	Bridge C2 - Construct South Parapet - Excl. Pier 21-22	18	10-May-16	30-May-16																
Bridge C3																					
Bridge C3	1022-1070	Erect/Assemble LG2 at Piers 29 and 30 + 280T Crane	5	15-Dec-15 A	25-Feb-16																
	1022-1071	Launch LG2 at Pier 28 to 27	2	26-Feb-16	27-Feb-16																
	1022-1072	Construct Temporary road location at Oil Street to HGHK Carpark + Divert Traffic	4	20-Feb-16	24-Feb-16																
	1022-1073	Bridge C3 - Erect falsework for End Span at Pier 28	5	25-Feb-16	01-Mar-16																
	1022-1075	Relocate 400T Crane from EVB to W/B Bridge	0	26-Jan-16 A	30-Jan-16 A																
	1022-1120	Bridge C3 - Erect Pier Segment at Pier 27 (1no) > by 400T Crane	0	01-Feb-16 A	02-Feb-16 A																
	1022-2580	Bridge C3 - Erect T-span at Pier 27 (10 nos) > By LG2	3	20-Feb-16	23-Feb-16																
	1022-2582	Bridge C3 - Erect End Span at Pier 28 (5 nos) > By LG2	7	02-Mar-16	09-Mar-16																
	1022-2583	Bridge C3 - Stitching at midspan between Pier 27 and 28	2	10-Mar-16	11-Mar-16																
	1022-2584	Launch LG2 at Pier 26 to 25	2	12-Mar-16	14-Mar-16																
	1022-2585	Bridge C3 - Erect T-span at Pier 26 (12 nos) > By LG2	3	15-Mar-16	17-Mar-16																
	1022-2586	Bridge C3 - Stitching at midspan between Pier 26 and 27	2	18-Mar-16	19-Mar-16																
	1022-2588	Bridge C3 - Erect End Segment at Pier 25 Eastside (4 nos) > By LG2	7	15-Mar-16	22-Mar-16																
	1022-2590	Bridge C3 - Stitching at midspan between Pier 25 and 26	2	23-Mar-16	24-Mar-16																
	1022-2620	Bridge C3 - Erect Pier Segment at Pier 26 (1no) > by 400T Crane	0	02-Feb-16 A	04-Feb-16 A																
	1022-2642	Bridge C3 - Erect Pier Segment at Pier 25 (2 nos) > by 400T Crane	7	24-Feb-16	02-Mar-16																
	1022-2644	Bridge C3 - Erect falsework for End Span at Pier 25 - Eastside	5	03-Mar-16	08-Mar-16																
	1022-2740	Bridge C3 - External Stressing	10	26-Mar-16	08-Apr-16																
	1022-2760	Bridge C3 - Construct North Parapet (83m)	18	09-Apr-16	29-Apr-16																
	1022-2780	Bridge C3 - Construct South Parapet (83m)	18	09-Apr-16	29-Apr-16																
1022-4110	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 (83m)	24	30-Apr-16	27-May-16																	
1022-4111	Bridge C3 - Deck Road Waterproofing, Surfacing & Marking	18	18-May-16	07-Jun-16																	
Bridge C4																					
Bridge C4	1022-1552	Bridge C4 - Construct South Parapet (108m)	20	29-Feb-16	22-Mar-16																
	1022-1555	Bridge C4 - Construct North Parapet (108m)	20	29-Feb-16	22-Mar-16																
	1022-1558	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4 (108m) - Stage 1 (sides)	20	23-Mar-16	18-Apr-16																
	1022-1561	Bridge C4 -Construct Int. Single Noise Encl. Bridge C4 (108m) - Stage 2 (arch)	24	23-Mar-16	22-Apr-16																
	1022-1564	Bridge C4 - Deck Road Waterproofing, Surfacing & Marking	7	26-Apr-16	03-May-16																
Bridge C5																					
Bridge C5	1022-3905	Pier 33 - P32-33 End Span - Hanging Segments	0	23-Jan-16 A	25-Jan-16 A																
	1022-3907	Pier 33 - P32-33 End Span - Erect Segments	0	26-Jan-16 A	26-Jan-16 A																
	1022-3909	Pier 33 - P32-33 End Span - Stitching	0	27-Jan-16 A	29-Jan-16 A																

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆

 ◆ Milestone

Contract HY/2009/19

3 Months Rolling Programme(as at 20-Feb-2016)

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																		
					February			March			April			May			June						
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05		
	1022-3911	Pier 33 - P32-33 End Span - Formwork Fixing for and Grouting for Bearing	0	27-Jan-16 A	29-Jan-16 A	End Span - Formwork Fixing for and Grouting for Bearing																	
	1022-3913	Pier 33 - P32-33 End Span - Prestress Span Tendons	0	30-Jan-16 A	30-Jan-16 A	End Span - Prestress Span Tendons																	
	1022-3915	Pier 33 - P32-33 End Span - Remove Hanger Bar & Hanger Beam & Stitching Formwork	0	01-Feb-16 A	01-Feb-16 A	33 End Span - Remove Hanger Bar & Hanger Beam & Stitching Formwork																	
	1022-3917	Pier 34 - T Span Erection (4 pairs)	0	27-Jan-16 A	04-Feb-16 A	Span Erection (4 pairs)																	
	1022-3919	Bridge C5 T Span Stitching - Install Clamping Beam and Adjust T span (P33-P34)	0	05-Feb-16 A	12-Feb-16 A	Bridge C5 T Span Stitching - Install Clamping Beam and Adjust T span (P33-P34)																	
	1022-3921	Bridge C5 T Span Stitching - Stitching (P33-P34)	0	13-Feb-16 A	17-Feb-16 A	Bridge C5 T Span Stitching - Stitching (P33-P34)																	
	1022-3923	Bridge C5 T Span Stitching - Prestress Span Tendons (P33-P34)	0	13-Feb-16 A	16-Feb-16 A	Bridge C5 T Span Stiching - Prestress Span Tendons (P33-P34)																	
	1022-3924	Abut. D12 (MJ Left) - End Span Erection - Hanging Segments	2	24-Feb-16	25-Feb-16	Abut. D12 (MJ Left) - End Span Erection - Hanging Segments																	
	1022-3927	Abut. D12 (MJ Left) - End Span Erection - Erect Segments	1	26-Feb-16	26-Feb-16	Abut. D12 (MJ Left) - End Span Erection - Erect Segments																	
	1022-3930	Abut. D12 (MJ Left) - End Span Erection - Stitching	3	27-Feb-16	01-Mar-16	Abut. D12 (MJ Left) - End Span Erection - Stitching																	
	1022-3933	Abut. D12 (MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing	3	27-Feb-16	01-Mar-16	Abut. D12 (MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing																	
	1022-3936	Abut. D12 (MJ Left) - End Span Erection - Prestress Span Tendons	1	02-Mar-16	02-Mar-16	Abut. D12 (MJ Left) - End Span Erection - Prestress Span Tendons																	
	1022-3939	Abut. D12 (MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	03-Mar-16	03-Mar-16	Abut. D12 (MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork																	
	1022-3942	Prestress Extenral Tendon of Bridge C5	12	03-Mar-16	16-Mar-16	Prestress Extenral Tendon of Bridge C5																	
	1022-3950	Bridge C5 - Construct North Parapet (75m)	16	17-Mar-16	07-Apr-16	Bridge C5 - Construct North Parapet (75m)																	
	1022-3951	Bridge C5 - Construct South Parapet (75m)	16	17-Mar-16	07-Apr-16	Bridge C5 - Construct South Parapet (75m)																	
	1022-3952	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5 (75m) - Stage 1	18	19-Apr-16	09-May-16	Bridge C5 - Construct Int. Single Noise																	
	1022-3953	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5 (75m) - Stage 2	18	19-Apr-16	09-May-16	Bridge C5 - Construct Int. Single Noise																	
	1022-3954	Bridge C5 - Deck Road Waterproofing, Surfacing & Marking	7	10-May-16	17-May-16	Bridge C5 - Deck Road Wa																	
Bridge F1C																							
	1022.1-3955	LG-A Launching - Deactivate MS at P32 and Relocate to D12 by Engage RL at P31-32	0	18-Feb-16 A	18-Feb-16 A	LG-A Launching - Deactivate MS at P32 and Relocate to D12 by Engage RL at P31-32																	
	1022.1-3965	LG-A Launching - Deactivate the MS at P33 and Engage FL at F1C/Pier36	2	19-Feb-16 A	22-Feb-16	LG-A Launching - Deactivate the MS at P33 and Engage FL at F1C/Pier36																	
	1022.1-3975	Pier 36 - Install Pier Segment - Place Pier Segment	1	23-Feb-16	23-Feb-16	Pier 36 - Install Pier Segment - Place Pier Segment																	
	1022.1-3985	Pier 36 - Install Pier Segment - Adjust Segment Level and Location	2	24-Feb-16	25-Feb-16	Pier 36 - Install Pier Segment - Adjust Segment Level and Location																	
	1022.1-3995	Pier 36 - Install Pier Segment - Grouting the Bearing Upper Plinth	4	26-Feb-16	01-Mar-16	Pier 36 - Install Pier Segment - Grouting the Bearing Upper Plinth																	
	1022.1-4005	Pier 36 - Install Pier Segment - Stressing Nailing	1	02-Mar-16	02-Mar-16	Pier 36 - Install Pier Segment - Stressing Nailing																	
	1022.1-4015	Pier 36 - Install MS at Pier 36	1	04-Mar-16	04-Mar-16	Pier 36 - Install MS at Pier 36																	
	1022.1-4025	LG-A Launching - Shift the MS from D12 Right to Left	1	05-Mar-16	05-Mar-16	LG-A Launching - Shift the MS from D12 Right to Left																	
	1022.1-4035	LG-A Launching - Deactivate the MS at P34 and Engage FL at F2C/Pier37	3	07-Mar-16	09-Mar-16	LG-A Launching - Deactivate the MS at P34 and Engage FL at F2C/Pier37																	
	1022.1-4045	Pier 37 - Install Pier Segment - Place Pier Segment	1	10-Mar-16	10-Mar-16	Pier 37 - Install Pier Segment - Place Pier Segment																	
	1022.1-4055	Pier 37 - Install Pier Segment - Adjust Segment Level and Location	2	11-Mar-16	12-Mar-16	Pier 37 - Install Pier Segment - Adjust Segment Level and Location																	
	1022.1-4065	Pier 37 - Install Pier Segment - Grouting the Bearing Upper Plinth	4	14-Mar-16	17-Mar-16	Pier 37 - Install Pier Segment - Grouting the Bearing Upper Plinth																	
	1022.1-4075	Pier 37 - Install Pier Segment - Stressing Nailing	1	18-Mar-16	18-Mar-16	Pier 37 - Install Pier Segment - Stressing Nailing																	
	1022.1-4085	Pier 37 - Install MS at F2C/Pier37	1	19-Mar-16	19-Mar-16	Pier 37 - Install MS at F2C/Pier37																	
	1022.1-4095	Pier 36 - T Span Erection (6 pairs)	4	11-Mar-16	15-Mar-16	Pier 36 - T Span Erection (6 pairs)																	
	1022.1-4105	Abut. D12 (MJ Right) - End Span Erection - Hanging Segments	3	16-Mar-16	18-Mar-16	Abut. D12 (MJ Right) - End Span Erection - Hanging Segments																	
	1022.1-4115	Abut. D12 (MJ Right) - End Span Erection - Erect Segments	2	19-Mar-16	21-Mar-16	Abut. D12 (MJ Right) - End Span Erection - Erect Segments																	
	1022.1-4125	Abut. D12 (MJ Right) - End Span Erection - Stitching	3	22-Mar-16	24-Mar-16	Abut. D12 (MJ Right) - End Span Erection - Stitching																	
	1022.1-4135	Abut. D12 (MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	3	22-Mar-16	24-Mar-16	Abut. D12 (MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing																	

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Contract HY/2009/19
3 Months Rolling Programme(as at 20-Feb-2016)

Page 9 of 13
24-Feb-16

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																			
					February			March				April				May				June				
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05			
	1022.1-4145	Abut. D12 (MJ Right) - End Span Erection - Prestress Span Tendons	1	26-Mar-16	26-Mar-16																			
	1022.1-4155	Abut. D12 (MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	29-Mar-16	29-Mar-16																			
	1022.1-4165	Pier 37 - T Span Erection (3 pairs)	2	22-Mar-16	23-Mar-16																			
	1022.1-4175	LG-A Launching - Deactivate the MS at D12 and Engage FL at F3C/Pier38	3	24-Mar-16	29-Mar-16																			
	1022.1-4185	Pier 38 - Install Pier Segment - Place Pier Segment	2	30-Mar-16	31-Mar-16																			
	1022.1-4195	Pier 38 - Install Pier Segment - Adjust Segment Level and Location	4	01-Apr-16	06-Apr-16																			
	1022.1-4205	Pier 38 - Install Pier Segment - Install the Tie & Packing System	1	07-Apr-16	07-Apr-16																			
	1022.1-4215	Pier 38 - Install MS at F3C/Pier38 (Left)	1	08-Apr-16	08-Apr-16																			
	1022.1-4225	Pier 37 - T Span Erection (2 pairs)	1	01-Apr-16	01-Apr-16																			
	1022.1-4235	LG-A Launching - Deactivate the MS at F1C and Engage FL at F4C/Pier39	3	02-Apr-16	06-Apr-16																			
	1022.1-4240	Prestress Extenral Tendon of Bridge F1C	13	18-Apr-16	02-May-16																			
	1022.1-4245	Bridge F1C - Construct South Parapet (86m)	18	03-May-16	23-May-16																			
Bridge F2C																								
	1022.1-4255	Pier 39 - Install Pier Segment - Place Pier Segment	1	07-Apr-16	07-Apr-16																			
	1022.1-4258	Pier 39 - Install Pier Segment - Adjust Segment Level and Location	2	08-Apr-16	09-Apr-16																			
	1022.1-4261	Pier 39 - Install Pier Segment - Grouting the Bearing Upper Plinth	4	11-Apr-16	14-Apr-16																			
	1022.1-4264	Pier 39 - Install Pier Segment - Stressing Nailing	1	15-Apr-16	15-Apr-16																			
	1022.1-4267	Pier 39 - Install MS at F4C/Pier39	1	16-Apr-16	16-Apr-16																			
	1022.1-4270	Bridge F1-F2 T Span Stitching - Install Clamping Beam and Adjust T span (F1-F2)	1	07-Apr-16	07-Apr-16																			
	1022.1-4273	Bridge F1-F2 T Span Stitching - Stitching (F1-F2)	2	08-Apr-16	09-Apr-16																			
	1022.1-4276	Bridge F1-F2 T Span Stitching - Prestress Span Tendons (F1-F2)	1	11-Apr-16	11-Apr-16																			
	1022.1-4279	Pier 38 - End Span Erection - Hanging Segments	2	08-Apr-16	09-Apr-16																			
	1022.1-4282	Pier 38 - End Span Erection - Erect Segments	1	11-Apr-16	11-Apr-16																			
	1022.1-4285	Pier 38 - End Span Erection - Stitching	3	12-Apr-16	14-Apr-16																			
	1022.1-4288	Pier 38 - End Span Erection - Formwork Fixing for and Grouting for Bearing	3	12-Apr-16	14-Apr-16																			
	1022.1-4291	Pier 38 - End Span Erection - Prestress Span Tendons	1	15-Apr-16	15-Apr-16																			
	1022.1-4294	Pier 38 - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	16-Apr-16	16-Apr-16																			
	1022.1-4297	LG-A Launching - Shift the MS from F3C/Pier38 Right to Left	1	18-Apr-16	18-Apr-16																			
	1022.1-4300	LG-A Launching - Deactivate the MS at F2C/Pier37 and Engage FL at F5C/Pier40	3	19-Apr-16	21-Apr-16																			
	1022.1-4303	Pier 40 - Install Pier Segment - Place Pier Segment (2nos.)	2	22-Apr-16	23-Apr-16																			
	1022.1-4306	Pier 40 - Install Pier Segment - Adjust Segment Level and Location	4	25-Apr-16	28-Apr-16																			
	1022.1-4309	Pier 40 - Install Pier Segment - Install the Tie & Packing System	1	29-Apr-16	29-Apr-16																			
	1022.1-4312	Pier 40 - Install Pier Segment - Install MS at F5C/Pier40 (Right)	1	30-Apr-16	30-Apr-16																			
	1022.1-4315	Pier 39(MJ Right) - T Span Erection (6 pairs)	3	25-Apr-16	27-Apr-16																			
	1022.1-4318	Pier 39(MJ Right) - End Span Erection - Hanging Segments	2	28-Apr-16	29-Apr-16																			
	1022.1-4321	Pier 39(MJ Right) - End Span Erection	1	30-Apr-16	30-Apr-16																			
	1022.1-4324	Pier 39(MJ Right) - End Span Erection - Stitching	3	02-May-16	04-May-16																			
	1022.1-4327	Pier 39(MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	3	02-May-16	04-May-16																			
	1022.1-4330	Pier 39(MJ Right) - End Span Erection - Prestress Span Tendons	1	05-May-16	05-May-16																			
Remaining Level of Effort Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone					Contract HY/2009/19 3 Months Rolling Programme(as at 20-Feb-2016)										Page 10 of 13 24-Feb-16									

Activity ID	Activity Name	Rem Dur	Start	Finish	2016																			
					February			March				April				May				June				
					14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05			
	1061-4421	Pre Bored H-Pile > Pile Ramp - BS14 A - (H-Pile + Grouting)	1	09-Mar-16	09-Mar-16																			
	1061-4440	Pre Bored H-Pile > Pile Ramp - BS14 B	3	09-Mar-16	11-Mar-16																			
	1061-4441	Pre Bored H-Pile > Pile Ramp - BS14 B - (H-Pile + Grouting)	1	12-Mar-16	12-Mar-16																			
	1061-4460	Pre Bored H-Pile > Pile Ramp - BN11 A	3	12-Mar-16	15-Mar-16																			
	1061-4461	Pre Bored H-Pile > Pile Ramp - BN11 A - (H-Pile + Grouting)	1	16-Mar-16	16-Mar-16																			
	1061-4480	Pre Bored H-Pile > Pile Ramp - BN11 B	3	16-Mar-16	18-Mar-16																			
	1061-4481	Pre Bored H-Pile > Pile Ramp - BN11 B - (H-Pile + Grouting)	1	19-Mar-16	19-Mar-16																			
	1061-4500	Pre Bored H-Pile > Pile Ramp - BN12 A	3	19-Mar-16	22-Mar-16																			
	1061-4501	Pre Bored H-Pile > Pile Ramp - BN12 A - (H-Pile + Grouting)	1	23-Mar-16	23-Mar-16																			
	1061-4520	Pre Bored H-Pile > Pile Ramp - BN12 B	3	23-Mar-16	26-Mar-16																			
	1061-4521	Pre Bored H-Pile > Pile Ramp - BN12 B - (H-Pile + Grouting)	1	29-Mar-16	29-Mar-16																			
	1061-4540	Pre Bored H-Pile > Pile Ramp - BN13 A	3	29-Mar-16	31-Mar-16																			
	1061-4541	Pre Bored H-Pile > Pile Ramp - BN13 A - (H-Pile + Grouting)	1	01-Apr-16	01-Apr-16																			
	1061-4560	Pre Bored H-Pile > Pile Ramp - BN13 B	3	01-Apr-16	05-Apr-16																			
	1061-4561	Pre Bored H-Pile > Pile Ramp - BN13 B - (H-Pile + Grouting)	1	06-Apr-16	06-Apr-16																			
	1061-4580	Pre Bored H-Pile > Pile Ramp - BN01 A	3	06-Apr-16	08-Apr-16																			
	1061-4581	Pre Bored H-Pile > Pile Ramp - BN01 A - (H-Pile + Grouting)	1	09-Apr-16	09-Apr-16																			
	1061-4600	Pre Bored H-Pile > Pile Ramp - BN01 B	3	09-Apr-16	12-Apr-16																			
	1061-4601	Pre Bored H-Pile > Pile Ramp - BN01 B - (H-Pile + Grouting)	1	13-Apr-16	13-Apr-16																			
	1061-4620	Pre Bored H-Pile > Pile Ramp - BN05 A	3	13-Apr-16	15-Apr-16																			
	1061-4621	Pre Bored H-Pile > Pile Ramp - BN05 A - (H-Pile + Grouting)	1	16-Apr-16	16-Apr-16																			
	1061-4640	Pre Bored H-Pile > Pile Ramp - BN05 B	3	16-Apr-16	19-Apr-16																			
	1061-4641	Pre Bored H-Pile > Pile Ramp - BN05 B - (H-Pile + Grouting)	1	20-Apr-16	20-Apr-16																			
	1061-4660	Pre Bored H-Pile > Pile Ramp - BN06 A	3	20-Apr-16	22-Apr-16																			
	1061-4661	Pre Bored H-Pile > Pile Ramp - BN06 A - (H-Pile + Grouting)	1	23-Apr-16	23-Apr-16																			
	1061-4680	Pre Bored H-Pile > Pile Ramp - BN06 B	3	23-Apr-16	26-Apr-16																			
	1061-4681	Pre Bored H-Pile > Pile Ramp - BN06 B - (H-Pile + Grouting)	1	27-Apr-16	27-Apr-16																			
	1061-4700	Remaining Bored Piles & Pre-Bored H-Pile Testing	30	06-Apr-16	10-May-16																			
	1061-4710	Complete Bored H-Piles Within Trough A Excl.Portion IIB	0		19-Mar-16																			
	1061-4720	Complete Bored All H-Piles Excl.Portion IIB	0		27-Apr-16																			
A1560	STAGE 2 ELS WORKS ALONG OIL STREET & HOTEL CARPARK - Resubmission complete	0		30-Jan-16 A	WORKS ALONG OIL STREET & HOTEL CARPARK - Resubmission complete																			
Excavation & ELS Works																								
	1061-8000	Site Preparation / Cleaning	16	18-Jan-16 A	09-Mar-16																			
	1061-8020	Sheet Piling Works + Pre-drilling (280m)	27	10-Mar-16	13-Apr-16																			
	1061-8040	King Post Installations (8Nos)	26	10-Mar-16	12-Apr-16																			
	1061-8060	Instrumentation > Inclometer (2Nos)	7	10-Mar-16	17-Mar-16																			
	1061-8100	Instrumentation > Settlement Marker (14Nos)	2	10-Mar-16	11-Mar-16																			
	1061-8120	Instrumentation > Tiltmeter (14Nos)	2	12-Mar-16	14-Mar-16																			
	1061-8140	Instrumentation > Movement Marker (14Nos)	2	15-Mar-16	16-Mar-16																			
Remaining Level of Effort Actual Level of Effort Actual Work Remaining Work Critical Remaining Work ◆ Milestone			Contract HY/2009/19 3 Months Rolling Programme(as at 20-Feb-2016)													Page 12 of 13 24-Feb-16								

Activity ID		Activity Name	Rem Dur	Start	Finish	2016																			
						February			March			April				May				June					
						14	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29	05			
	1061-8160	Instrumentation > Pizometer/Standpipe (4Nos)	8	18-Mar-16	29-Mar-16																				
	1061-8180	Dewatering System > Recharge Well (8Nos)	10	10-Mar-16	21-Mar-16																				
	1061-8200	Dewatering System > Dewatering Well (14Nos)	14	22-Mar-16	09-Apr-16																				
	1061-8220	Dewatering System > Observation Well (10Nos)	11	30-Mar-16	12-Apr-16																				
	1061-8240	Pumping Test	3	13-Apr-16	15-Apr-16																				
	1061-8260	Complete Pump Test	0		15-Apr-16																				
	1061-8280	Ch 5234 - 5331 > Excav from Ex. Lvl down to 2.5mPD (Ch 5285 - 5331 w/ open cut)	9	16-Apr-16	26-Apr-16																				
	1061-8300	Ch 5285 - 5331 > Excav from 2.5mPD to FEL	5	27-Apr-16	02-May-16																				
	1061-8320	Ch 5234 - 5285 > Install 1st Layer of Strut & Waling	6	27-Apr-16	03-May-16																				
	1061-8340	Ch 5234 - 5285 > Excav from 2.5mPD to 1m Below 2nd Layer of Struts	16	04-May-16	21-May-16																				
	Structure Works																								
	1061-8400	Bay 1 - Ch 5322 - 5331 > Base Slab - Blinding Layer	1	03-May-16	03-May-16																				
	1061-8420	Bay 1 - Ch 5322 - 5331 > Base Slab - Water Proofing Membrane	2	04-May-16	05-May-16																				
	1061-8440	Bay 1 - Ch 5322 - 5331 > Base Slab - Rebar Fixing	5	06-May-16	11-May-16																				
	1061-8460	Bay 1 - Ch 5322 - 5331 > Base Slab - Erect Formworks	3	12-May-16	14-May-16																				
	1061-8480	Bay 1 - Ch 5322 - 5331 > Base Slab - Concreting	1	16-May-16	16-May-16																				
	1061-8500	Bay 2 - Ch 5313 - 5322 > Base Slab - Blinding Layer	1	17-May-16	17-May-16																				
	1061-8520	Bay 2 - Ch 5313 - 5322 > Base Slab - Water Proofing Membrane	2	18-May-16	19-May-16																				
	1061-8540	Bay 2 - Ch 5313 - 5322 > Base Slab - Rebar Fixing	5	20-May-16	25-May-16																				
11 - SECTION 11 OF THE WORKS																									
11.2 - Roadworks																									
1110-2790	Watermains at Portion XIIA - Stage 11 (motor cycle parking)	0	03-Nov-15 A	20-Feb-16																					
1110-2800	Watermains at Portion XIIA - Testing & commissioning of Watermains	4	20-Feb-16	24-Feb-16																					
1110-2810	Watermains at Portion XIIA - Reinstatement of Pavement at connection Pt.	4	25-Feb-16	29-Feb-16																					

Remaining Level of Effort

Actual Level of Effort

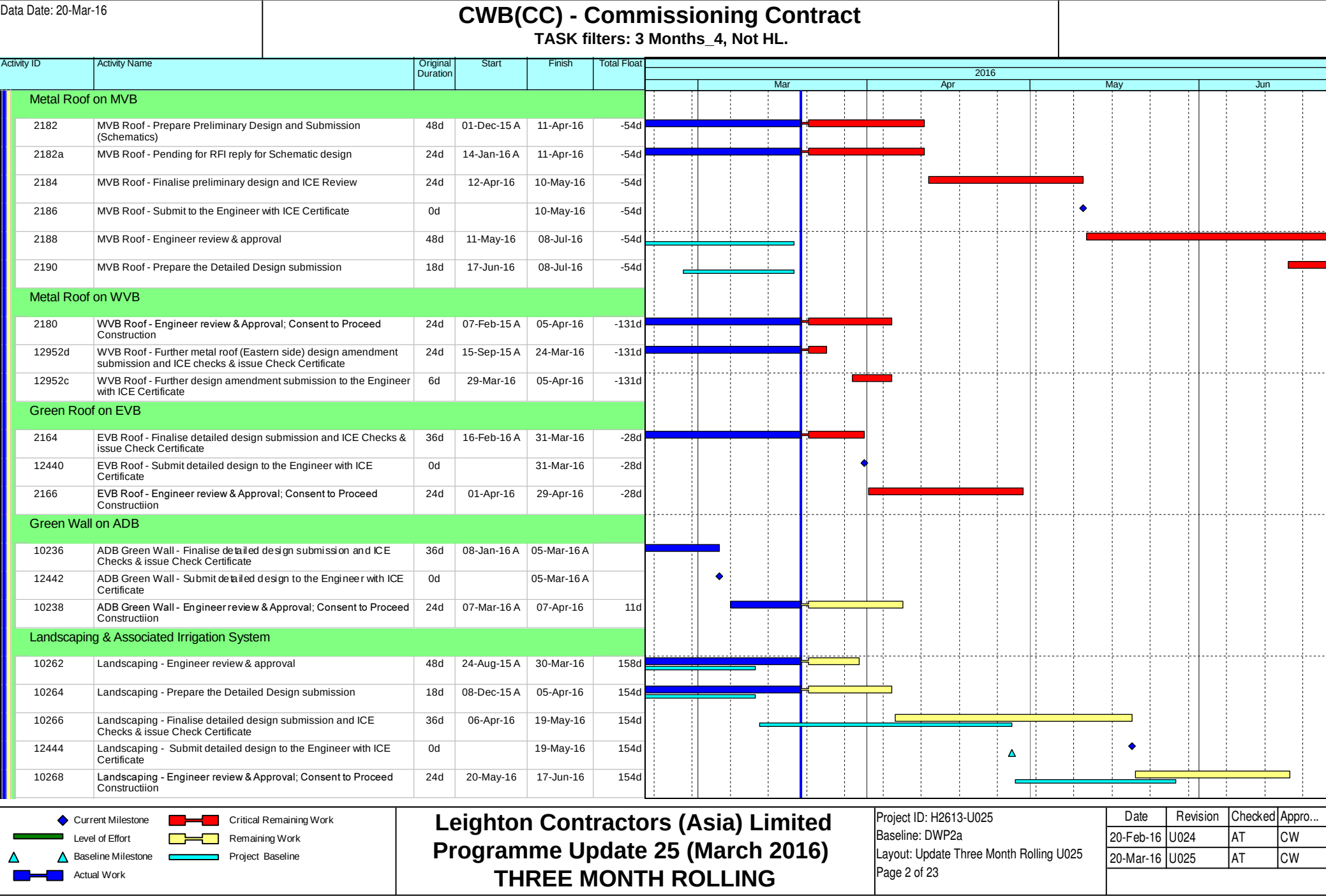
Actual Work

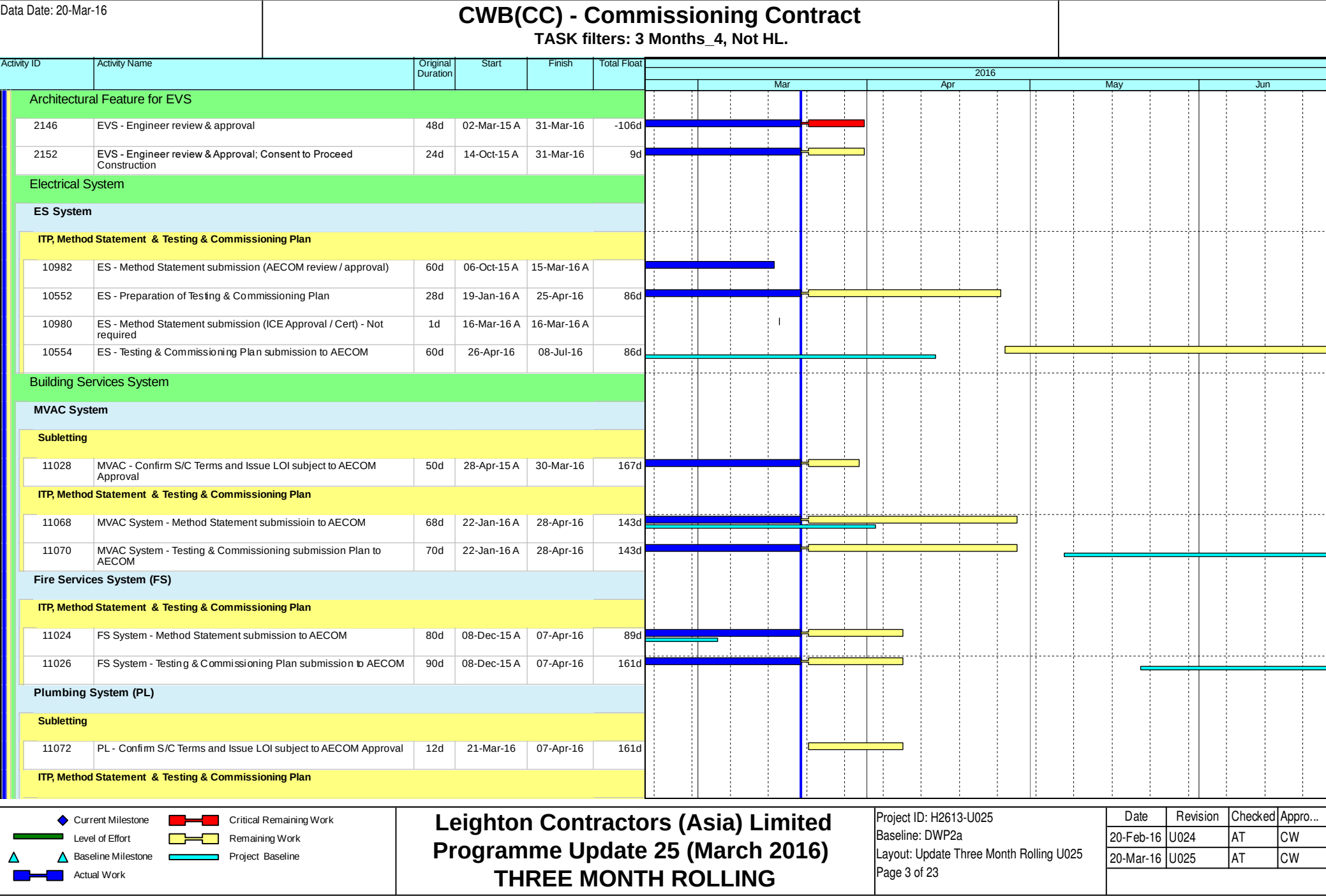
Remaining Work

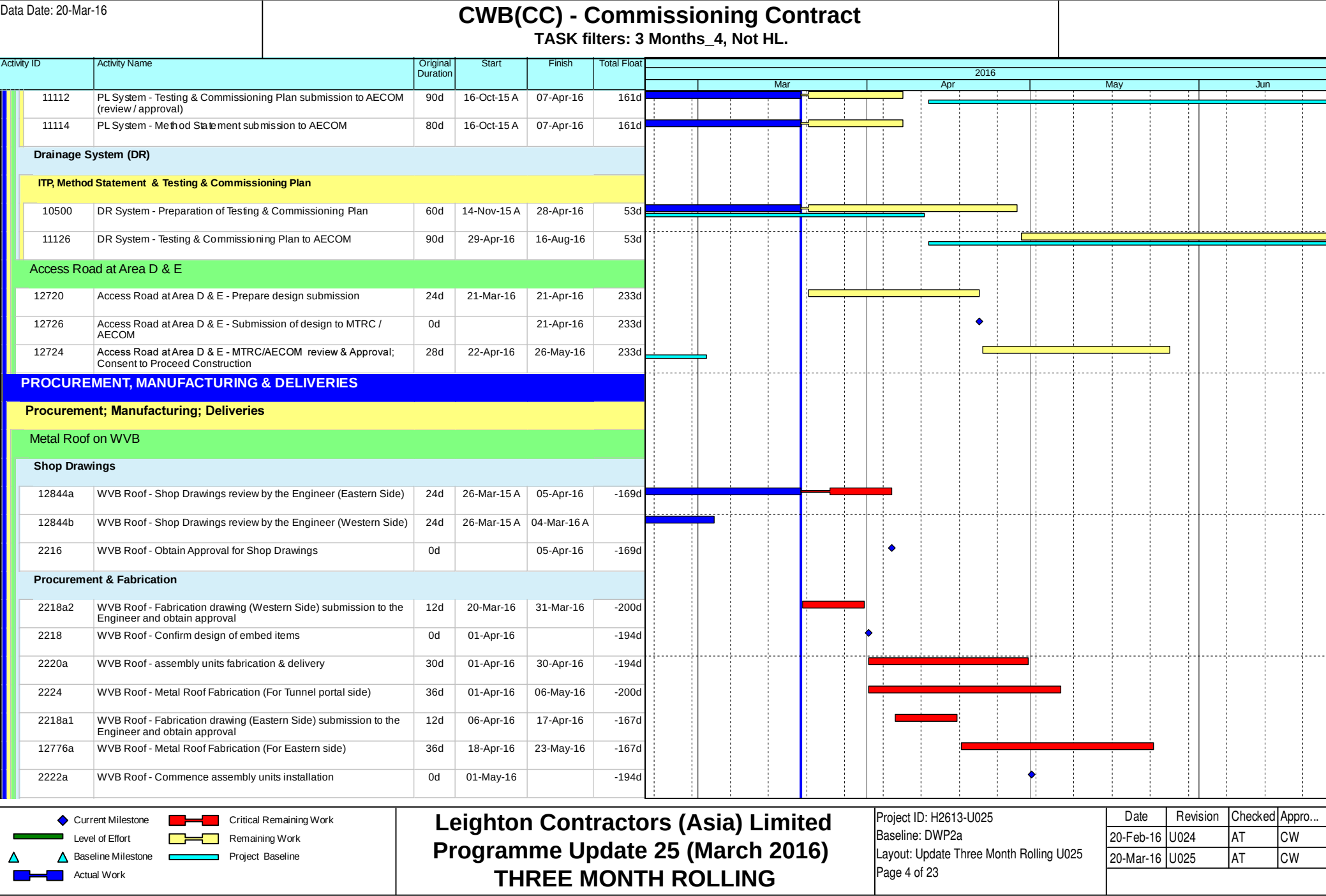
Critical Remaining Work

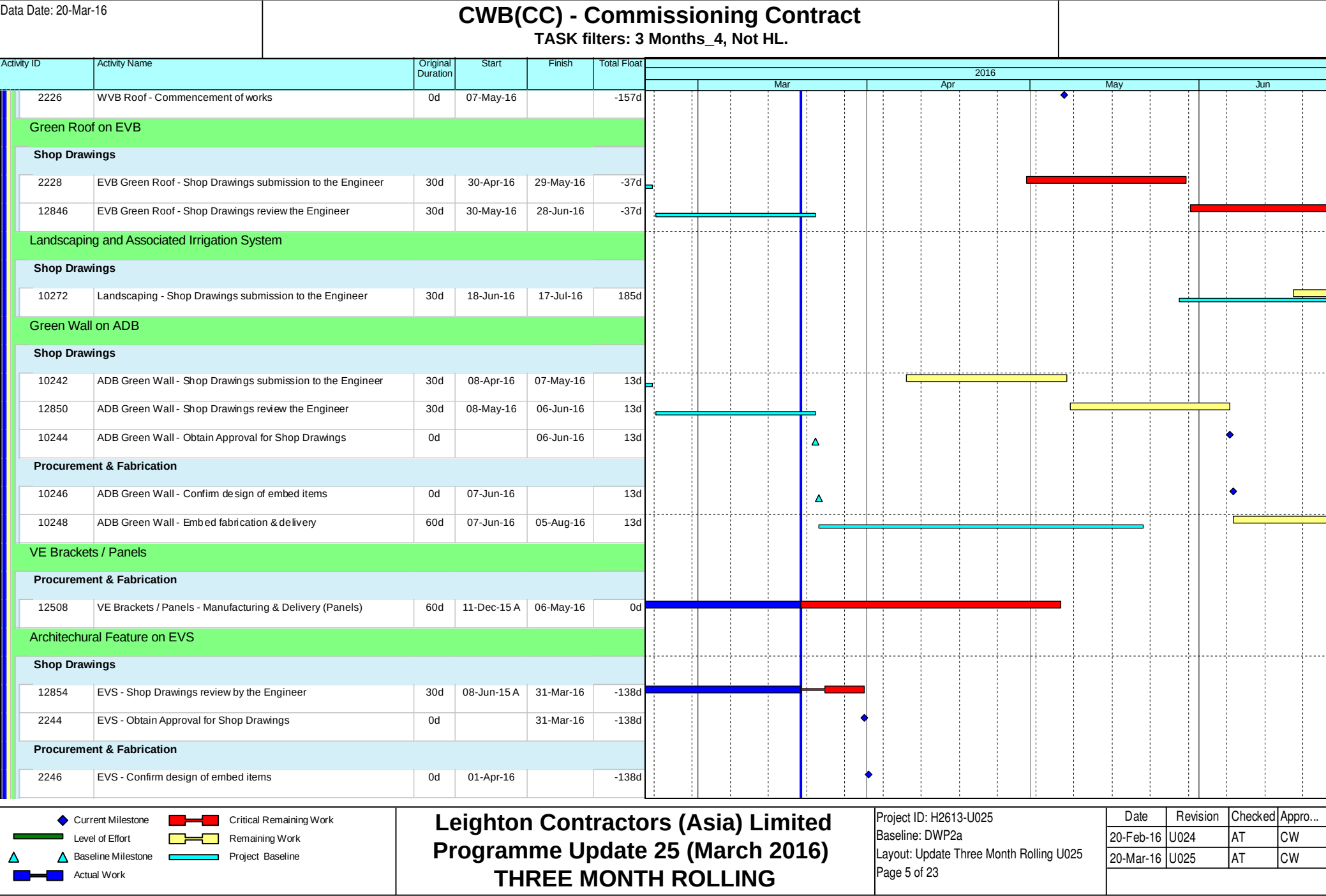
Milestone

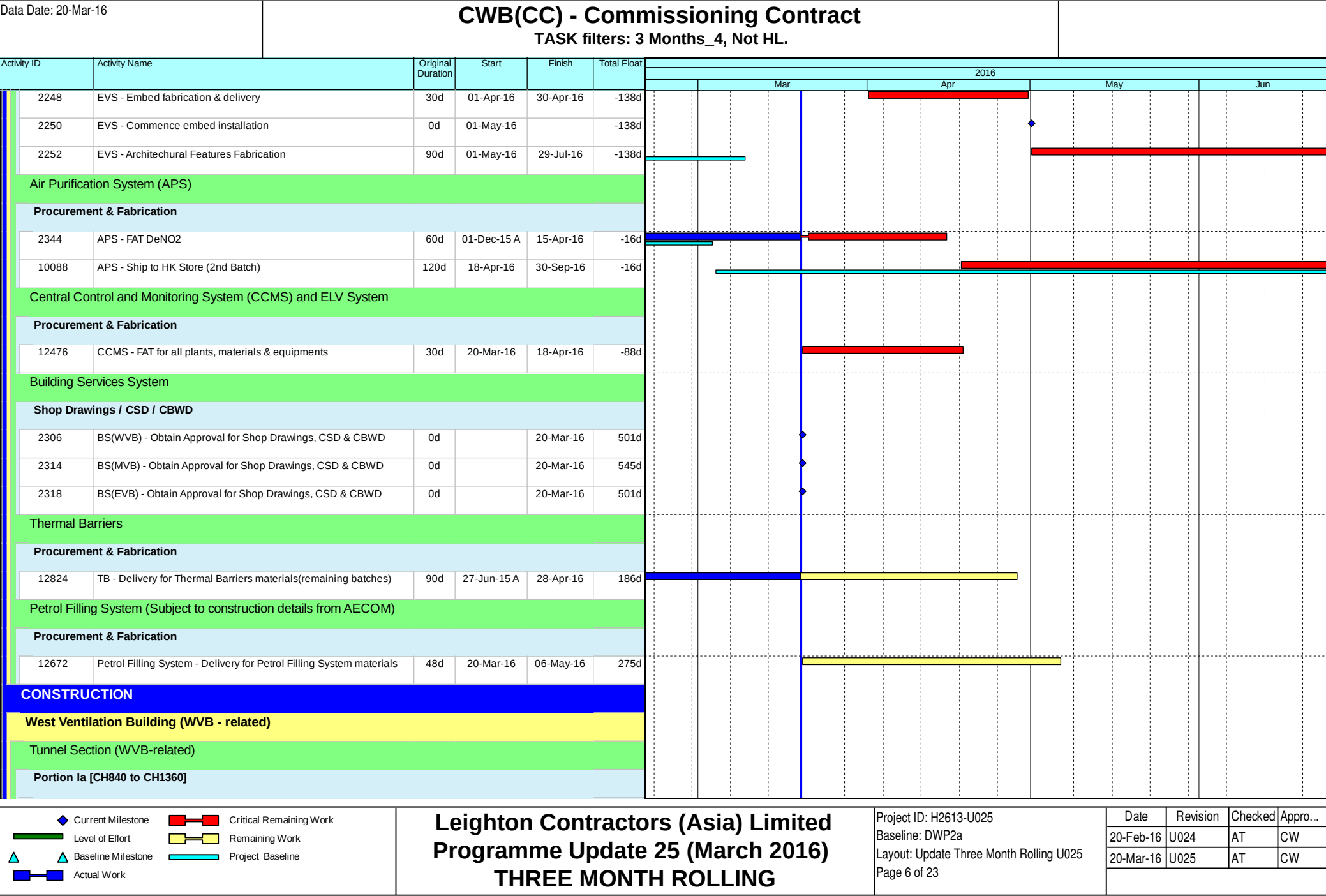
Milestone

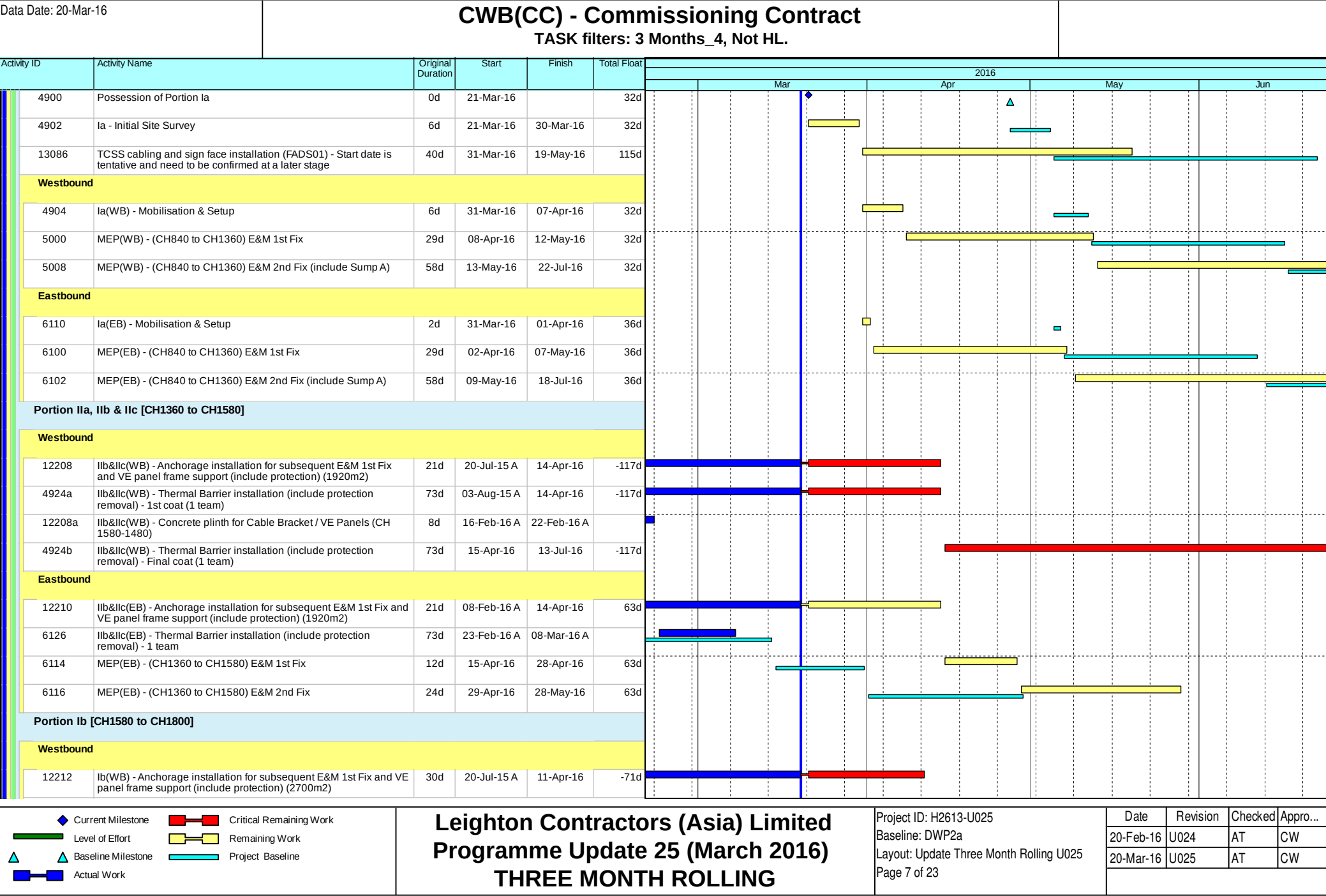


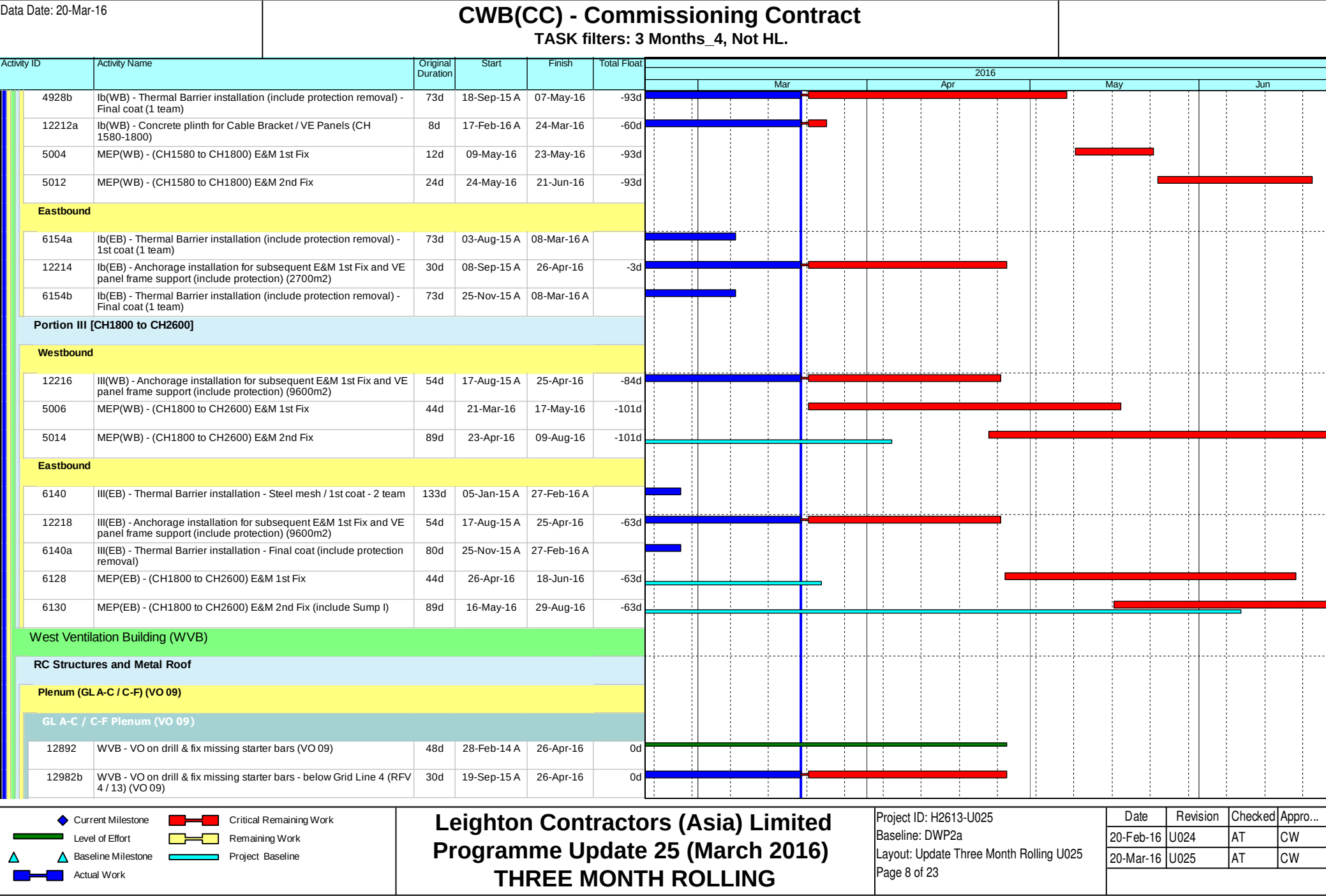


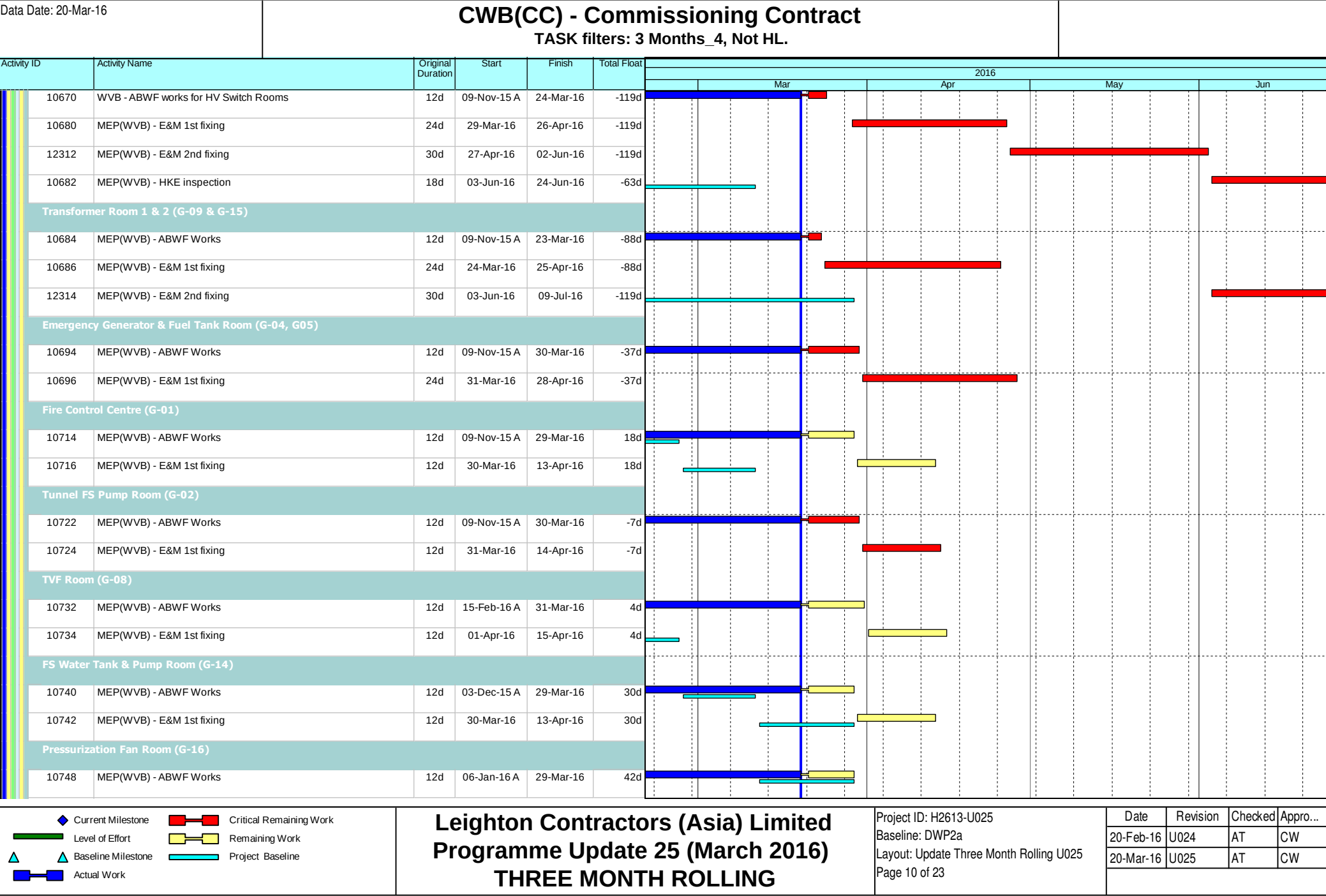


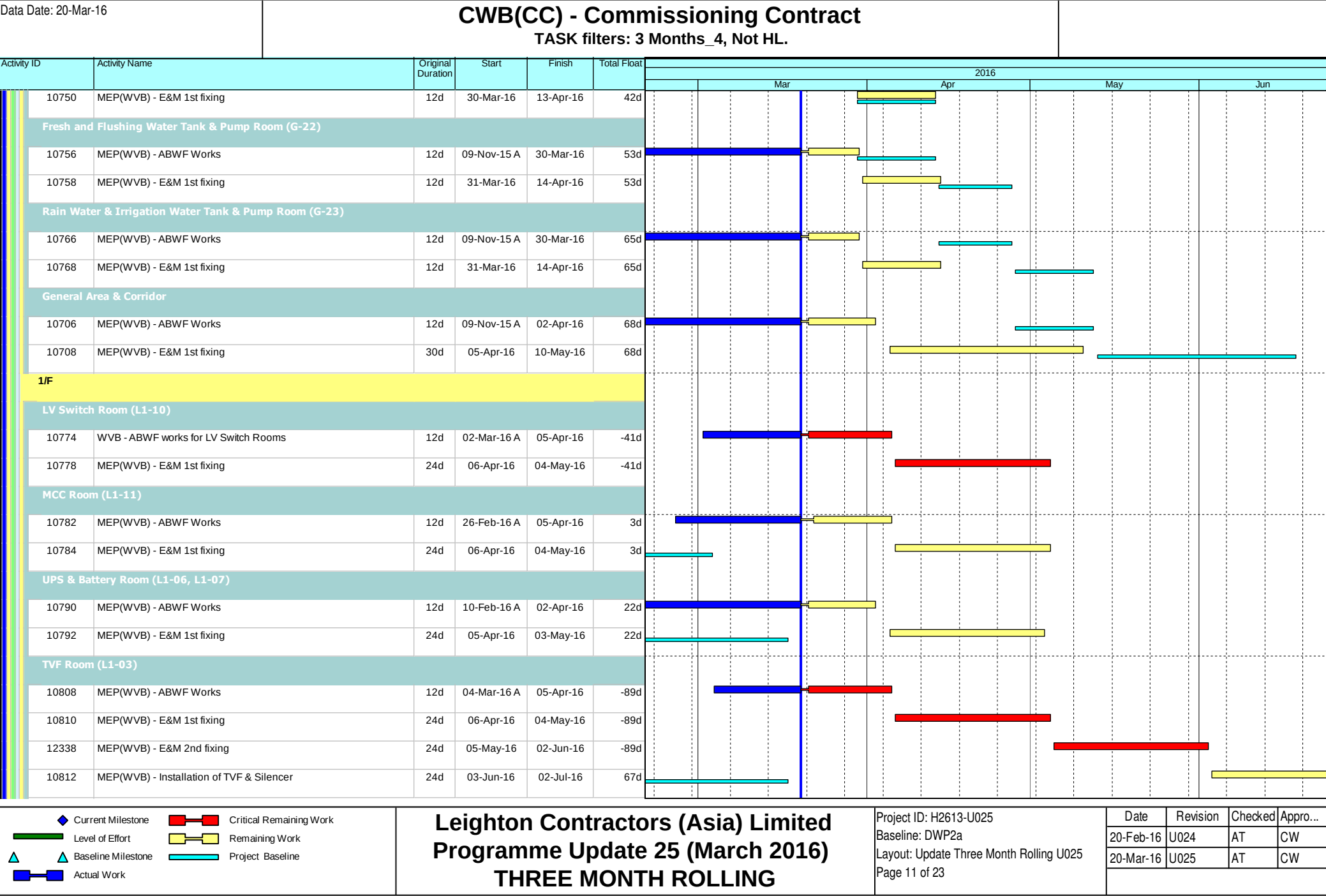


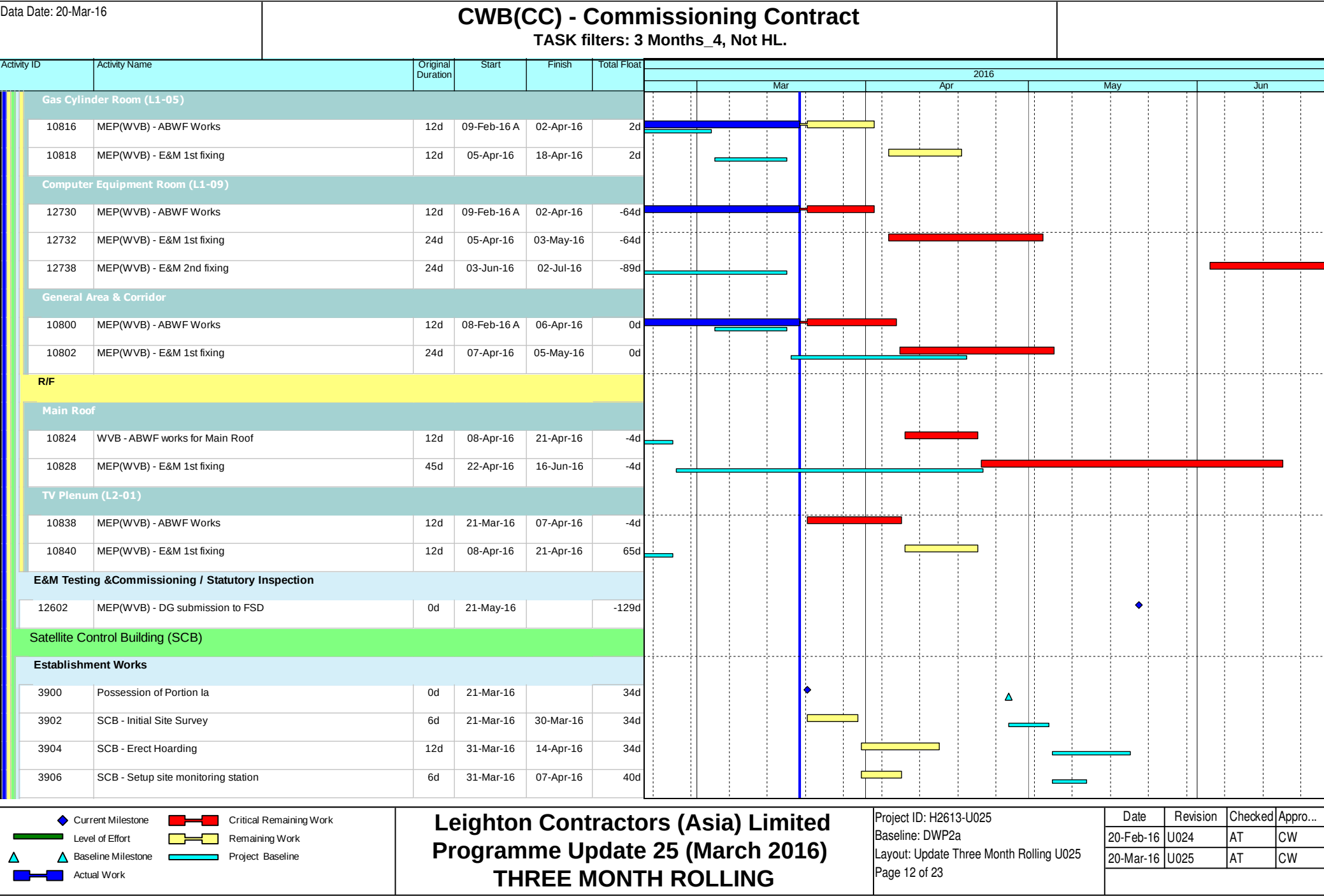


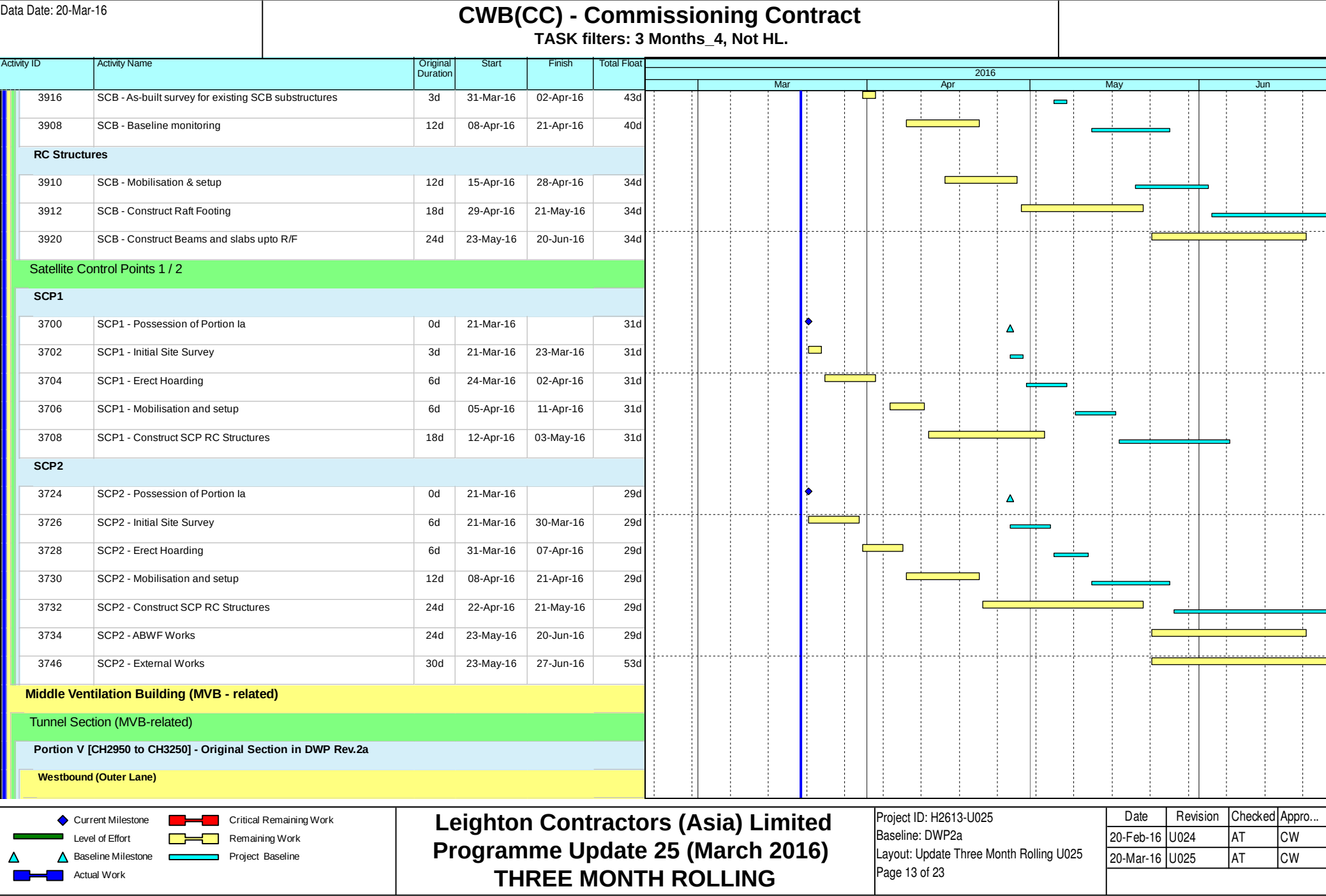


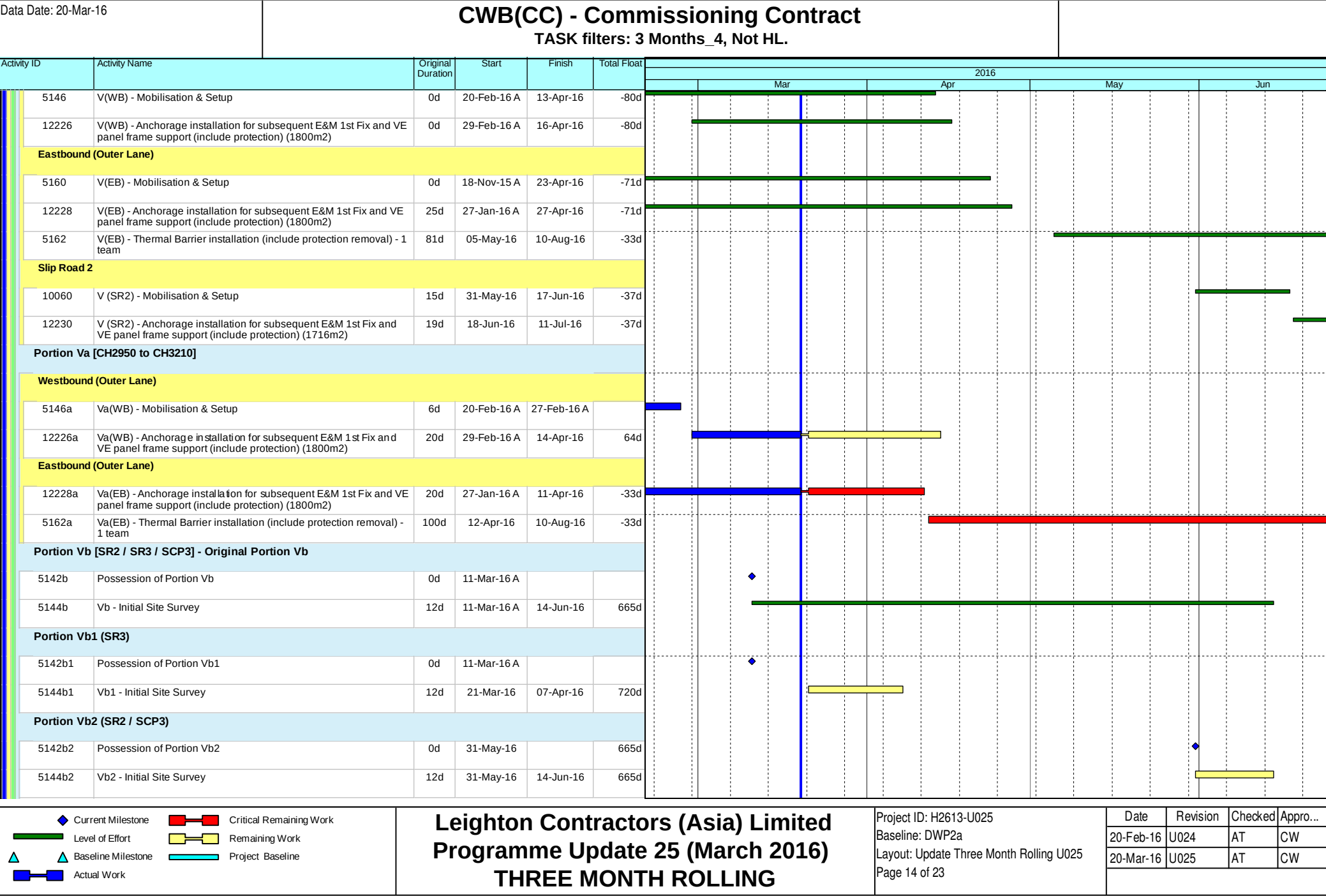




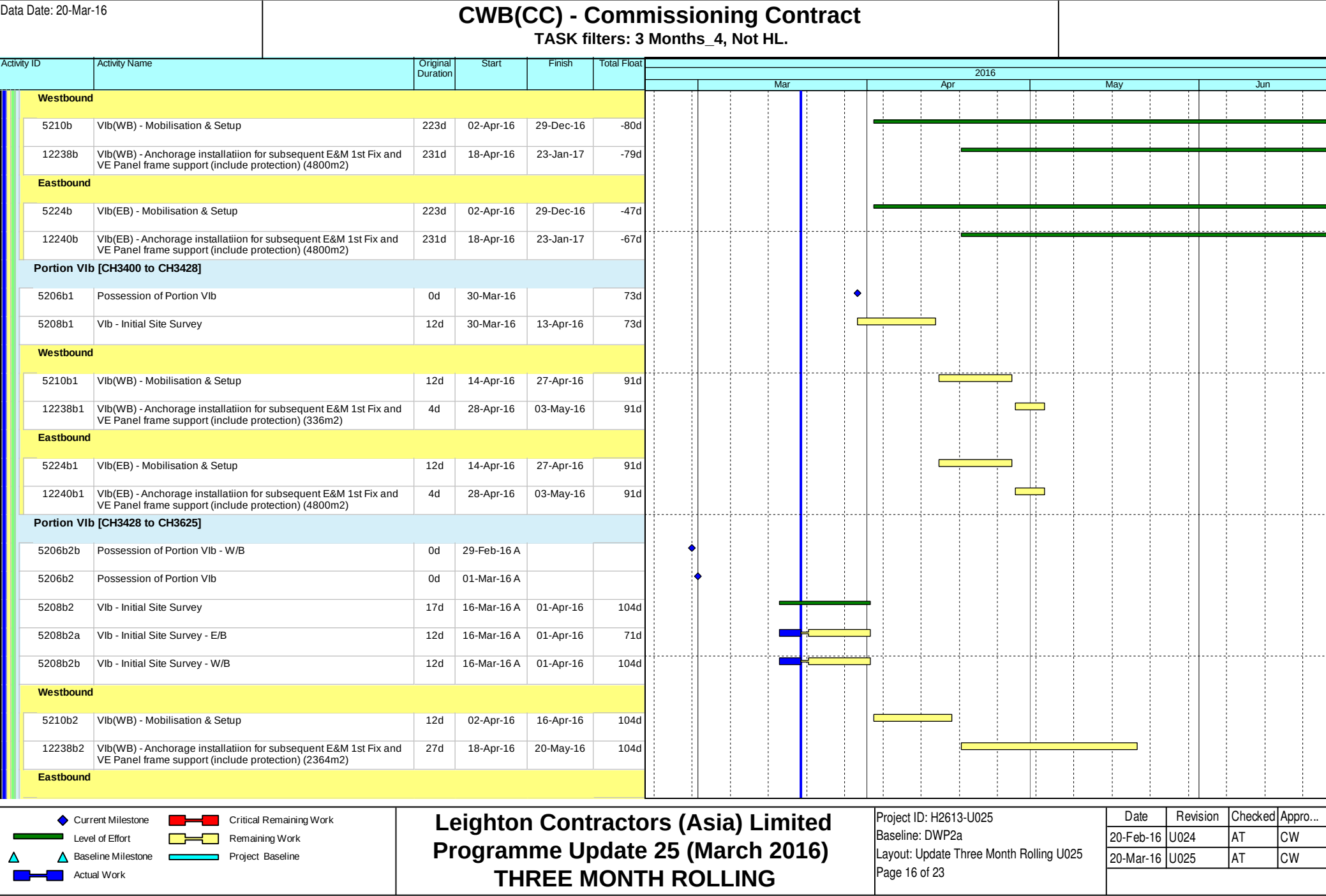


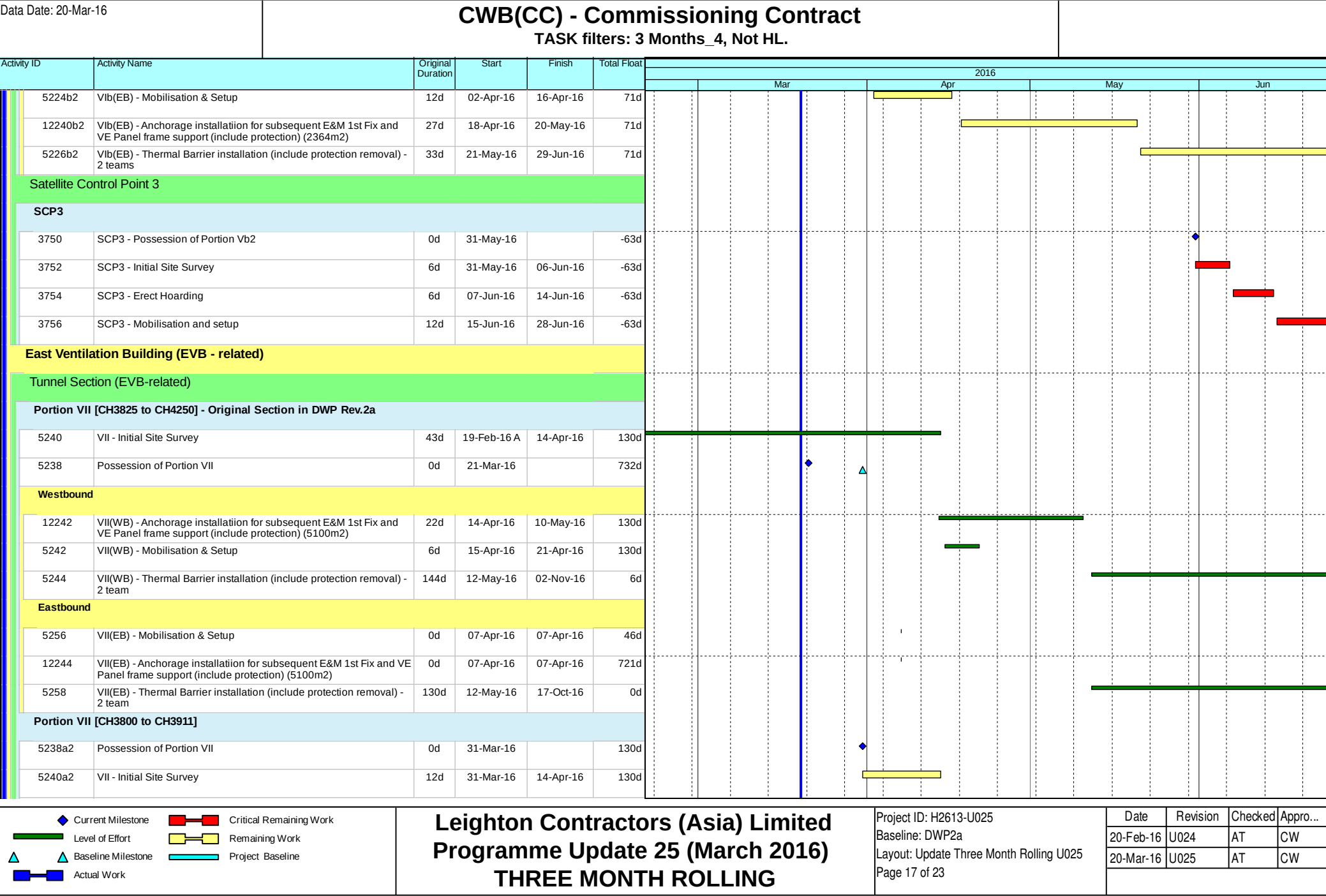


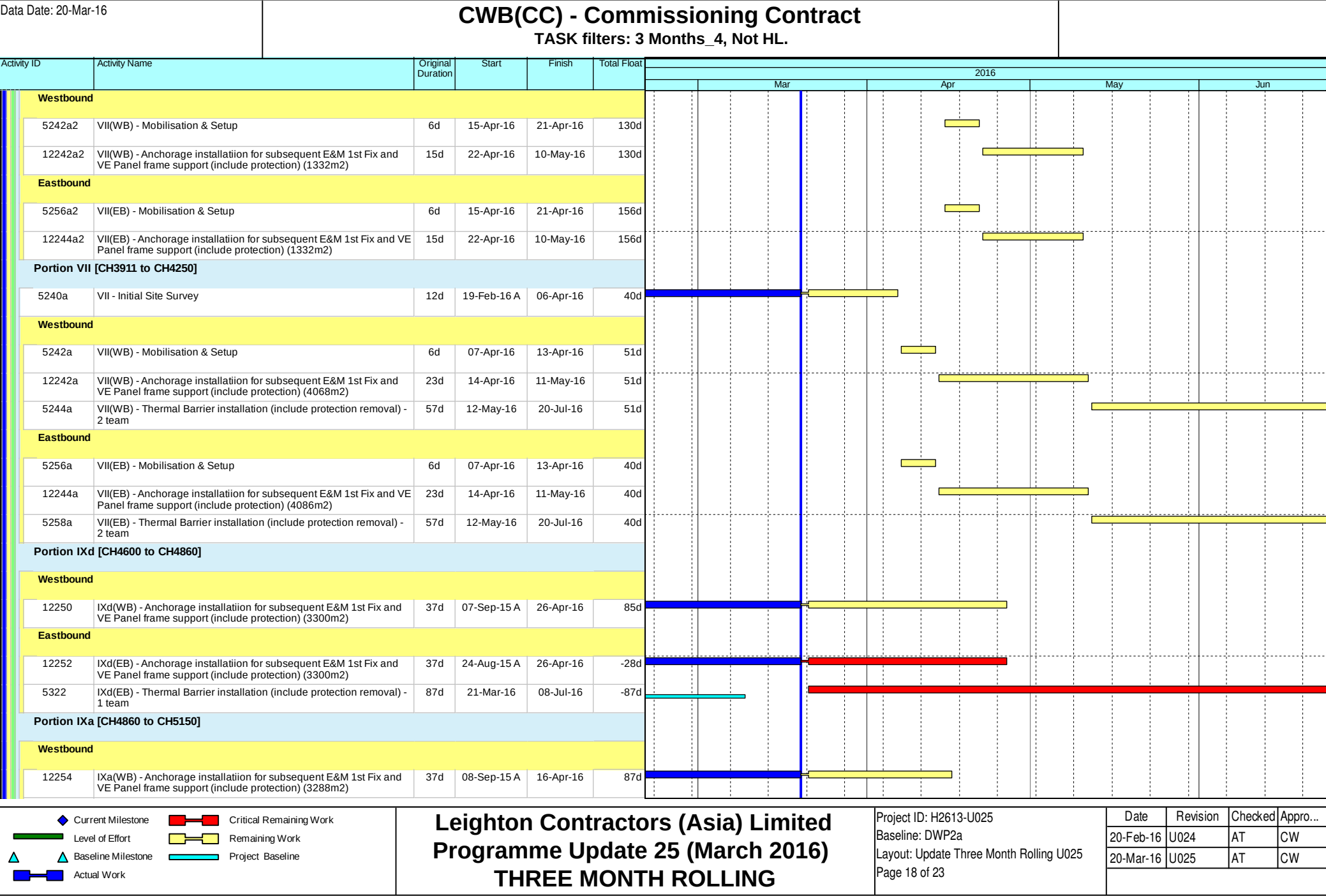


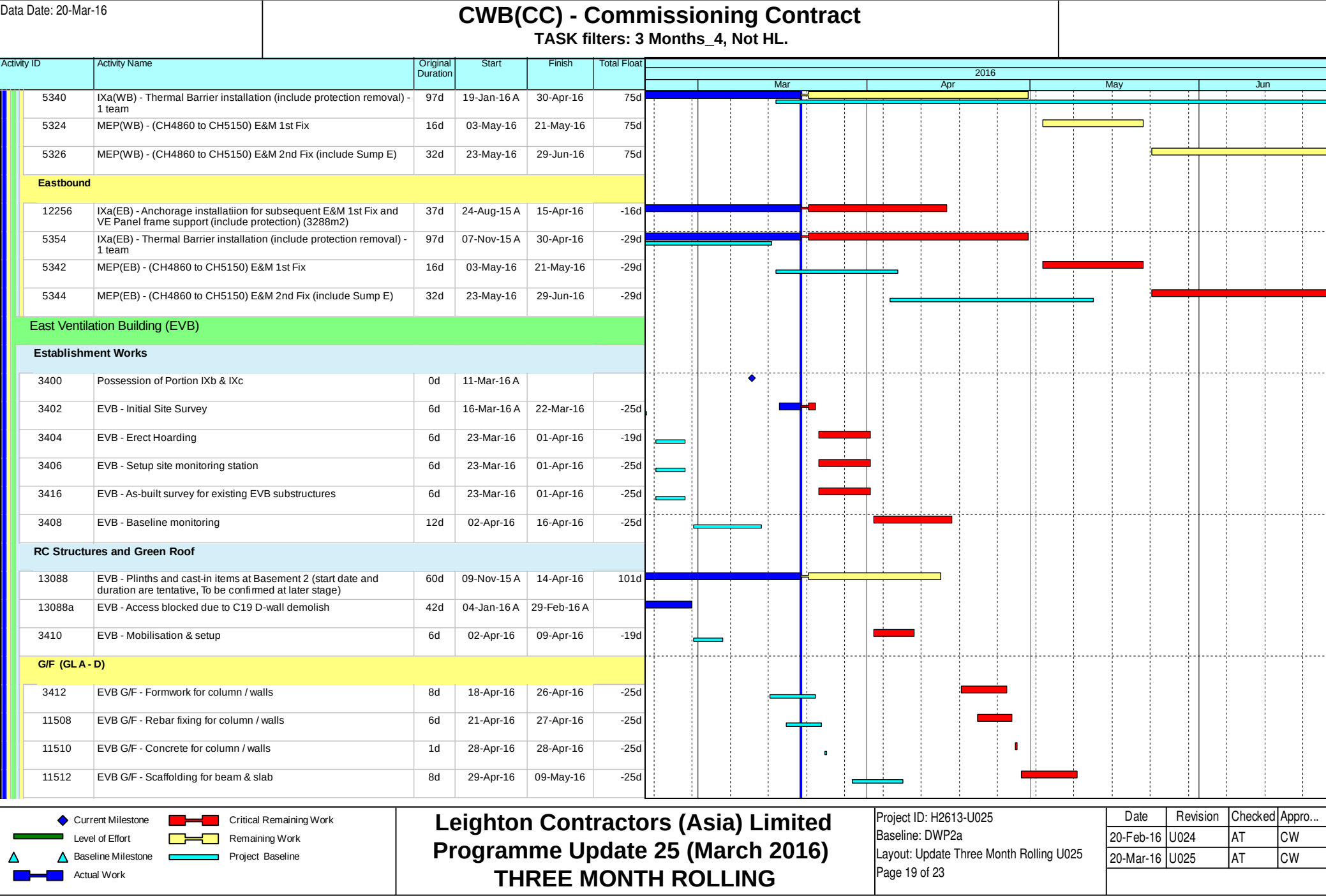


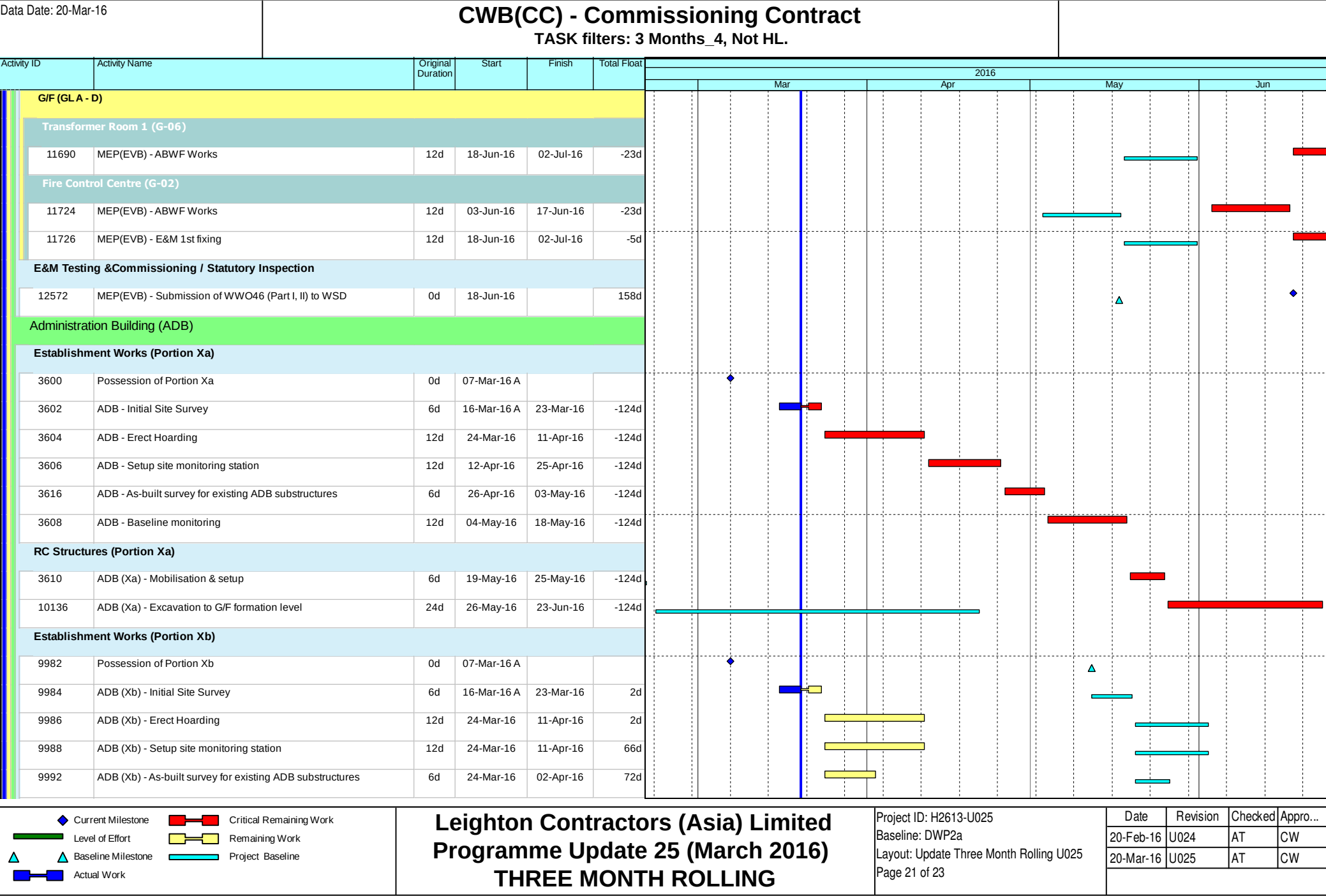
Data Date: 20-Mar-16				CWB(CC) - Commissioning Contract																					
TASK filters: 3 Months_4, Not HL.																									
Activity ID		Activity Name				Original Duration	Start	Finish	Total Float	2016															
										Mar			Apr			May			Jun						
Slip Road 2																									
10060b		Vb (SR2) - Mobilisation & Setup				15d	31-May-16	17-Jun-16	-37d																
12230b		Vb (SR2) - Anchorage installation for subsequent E&M 1st Fix and VE panel frame support (include protection) (1716m2)				19d	18-Jun-16	11-Jul-16	-37d																
Portion Vc [CH3210 to CH3250]																									
5144c		Vc - Initial Site Survey				12d	19-Jan-16 A	06-Apr-16	-80d																
Westbound (Outer Lane)																									
5146c		Vc(WB) - Mobilisation & Setup				6d	07-Apr-16	13-Apr-16	-80d																
12226c		Vc(WB) - Anchorage installation for subsequent E&M 1st Fix and VE panel frame support (include protection) (240m2)				3d	14-Apr-16	16-Apr-16	-80d																
5148c		Vc(WB) - Thermal Barrier installation (include protection removal) - 1 team				14d	18-Apr-16	04-May-16	-80d																
5132c		MEP(WB) - (CH3210 to CH3250) E&M 1st Fix				12d	05-May-16	19-May-16	-80d																
5134c		MEP(WB) - (CH3210 to CH3250) E&M 2nd Fix				18d	20-May-16	10-Jun-16	-80d																
5136c		MEP(WB) - (CH3210 to CH3250) E&M Final Fix				10d	11-Jun-16	22-Jun-16	22d																
Eastbound (Outer Lane)																									
5160c		Vc(EB) - Mobilisation & Setup				6d	18-Apr-16	23-Apr-16	-71d																
12228c		Vc(EB) - Anchorage installation for subsequent E&M 1st Fix and VE panel frame support (include protection) (240m2)				3d	25-Apr-16	27-Apr-16	-71d																
5162c		Vc(EB) - Thermal Barrier installation (include protection removal) - 1 team				14d	05-May-16	21-May-16	-76d																
5150c		MEP(EB) - (CH3210 to CH3250) E&M 1st Fix				12d	23-May-16	04-Jun-16	-76d																
5152c		MEP(EB) - (CH3210 to CH3250) E&M 2nd Fix				18d	11-Jun-16	02-Jul-16	-80d																
Portion VIb & VIc [CH3400 to CH3800] - Original Section in DWP Rev.2a																									
Westbound																									
5210		VIb & VIc (WB) - Mobilisation & Setup				243d	02-Apr-16	23-Jan-17	82d																
12238		VIb & VIc (WB) - Anchorage install for subsequent E&M 1st Fix and VE Panel frame support (include protection) (4800m2)				236d	18-Apr-16	04-Feb-17	77d																
Eastbound																									
12240		VIb & VIc (EB) - Anchorage install for subsequent E&M 1st Fix and VE Panel frame support (include protection) (4800m2)				236d	18-Apr-16	04-Feb-17	77d																
Portion VIb [CH3400 to CH3800] - Original section in DWP Rev.2d																									
◆ Current Milestone ▬ Level of Effort ▲ Baseline Milestone ■ Actual Work ▬ Critical Remaining Work ▬ Remaining Work ▬ Project Baseline										Leighton Contractors (Asia) Limited Programme Update 25 (March 2016) THREE MONTH ROLLING															
Project ID: H2613-U025 Baseline: DWP2a Layout: Update Three Month Rolling U025 Page 15 of 23										<table><tr><td>Date</td><td>Revision</td><td>Checked</td><td>Appro...</td></tr><tr><td>20-Feb-16</td><td>U024</td><td>AT</td><td>CW</td></tr><tr><td>20-Mar-16</td><td>U025</td><td>AT</td><td>CW</td></tr></table>				Date	Revision	Checked	Appro...	20-Feb-16	U024	AT	CW	20-Mar-16	U025	AT	CW
Date	Revision	Checked	Appro...																						
20-Feb-16	U024	AT	CW																						
20-Mar-16	U025	AT	CW																						

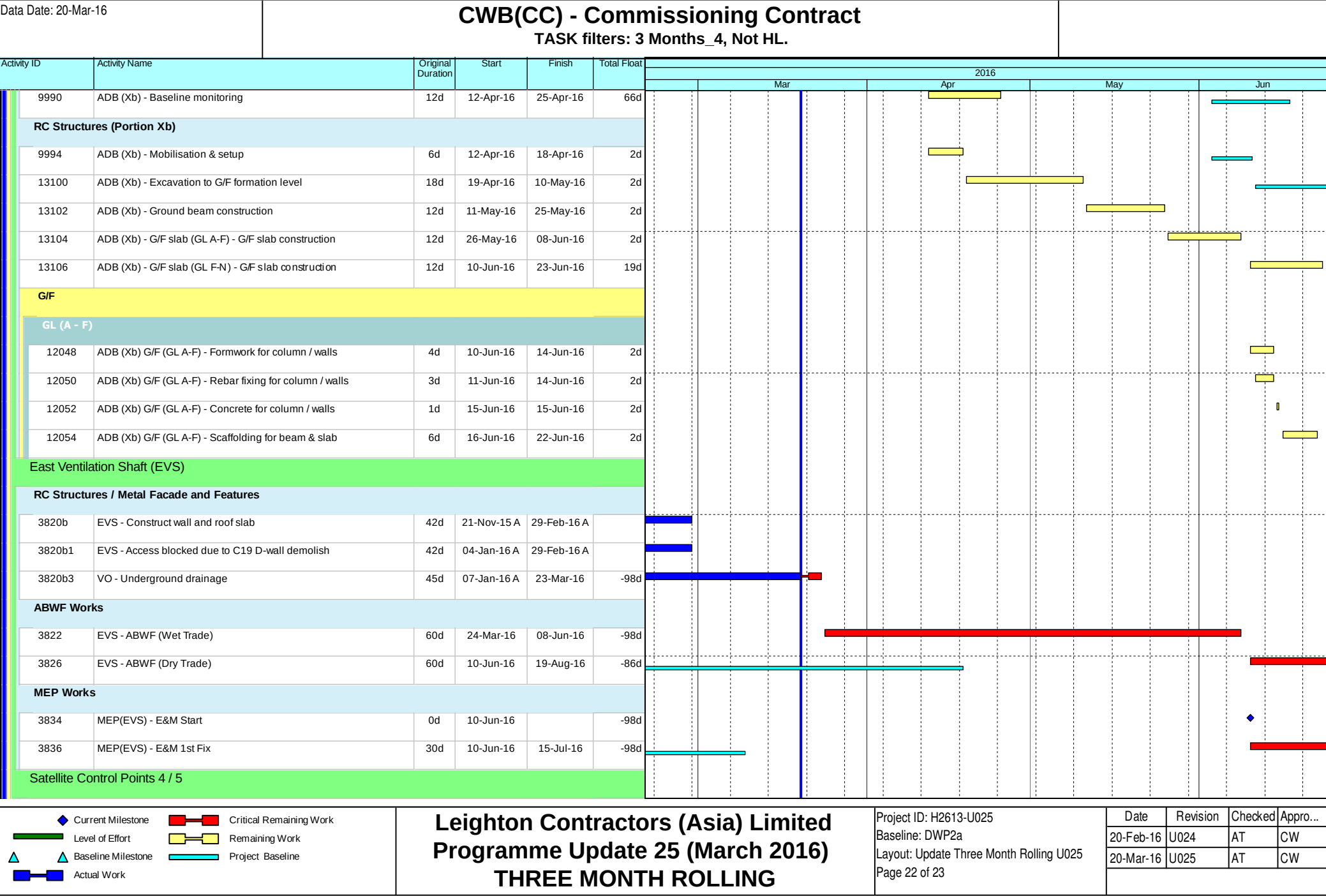












Data Date: 20-Mar-16		CWB(CC) - Commissioning Contract															
		TASK filters: 3 Months_4, Not HL.															
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016											
						Mar			Apr			May			Jun		
SCP5																	
3828	SCP5 - Mobilization for Area B	0d	12-May-16*		96d												
3848	SCP5 - Initial Site Survey	6d	12-May-16	19-May-16	96d												
3852	SCP5 - Erect Hoarding	6d	20-May-16	26-May-16	96d												
3868	SCP5 - Mobilisation and setup	12d	27-May-16	10-Jun-16	96d												
3870	SCP5 - Construct SCP RC Structures	24d	11-Jun-16	09-Jul-16	96d												
External Works																	
Area A/B																	
10288a1	Area A TCSS equipment installation and cabling (Gantry FVMS 1) - After C18 gantry installation complete	40d	13-May-16	30-Jun-16	142d												
10288CI1	C18 gantry installation complete (FVMS 1)	0d		13-May-16*	0d												

Current Milestone

Level of Effort

Baseline Milestone

Actual Work

Critical Remaining Work

Remaining Work

Project Baseline

Leighton Contractors (Asia) Limited

Programme Update 25 (March 2016)

THREE MONTH ROLLING

Project ID: H2613-U025

Baseline: DWP2a

Layout: Update Three Month Rolling U025

Page 23 of 23

Date	Revision	Checked	Appro...
20-Feb-16	U024	AT	CW
20-Mar-16	U025	AT	CW

SR8_DWP06(A)-MU35-3M		SR8 - Layout for 3MRP_2106_02			Appendix C.5											
Activity ID	Activity Name	Original Duration	Start	Finish	2016											
					Feb			Mar			Apr			May		
DWP-06 (A) - Three Months Rolling Programme_updated up to 20-Feb-16																
Key Dates																
Site Possession Dates																
IECM	Instruction to proceed with Section 8 (IEC Abutment M)- subject to excision 945d	0	20-Feb-16*		◆	Instruction to proceed with Section 8 (IEC Abutment M)- subject to excision 945d										
IX	Site Possession of Portion IX (1096d)	0	21-Mar-16*					◆	Site Possession of Portion IX (1096d)							
Handover Dates (Contractual Date up to EOT-08)																
HIIIC	Handover of Portion III	0		20-Feb-16*	◆	Handover of Portion III										
HVIC	Handover of Portion VI	0		20-Feb-16*	◆	Handover of Portion VI										
HVIIC	Handover of Portion VII	0		20-Feb-16*	◆	Handover of Portion VII										
HXVC	Handover of Portion XV	0		20-Feb-16*	◆	Handover of Portion XV										
Handover Dates (Programmed Date)																
HIII	Handover of Portion III	0		18-Mar-16				◆	Handover of Portion III							
HVI	Handover of Portion VI	0		18-Mar-16				◆	Handover of Portion VI							
HVII	Handover of Portion VII	0		18-Mar-16				◆	Handover of Portion VII							
HXV	Handover of Portion XV	0		20-Feb-16	◆	Handover of Portion XV										
Stage / Section Completion of Works (Contractual Date yp to EOT-08)																
KD02C	KD2 - Achievement of Stage 2 (994d) (Plus 5 day EOT)	0		20-Feb-16*	◆	KD2 - Achievement of Stage 2 (994d) (Plus 5 day EOT)										
KD14C	KD14 - Completion of Section 8 of the Works (1125d)	0		18-Apr-16*							◆	KD14 - Completion of Section 8 of the Works (1125d)				
KD15C	KD15 - Completion of Section 9 of the Works (994d)	0		20-Feb-16*	◆	KD15 - Completion of Section 9 of the Works (994d)										
Stage / Section Completion of Works (Programmed Date)																
KD15	KD15 - Completion of Section 9 of the Works (994d)	0		20-Feb-16	◆	KD15 - Completion of Section 9 of the Works (994d)										
KD2	KD2 - Achievement of Stage 2 (994d) (Plus 5 day EOT)	0		22-Apr-16							◆	KD2 - Achievement of Stage 2 (994d) (Plus 5 day EOT)				
KD5	KD5 - Completion of Section 2 of the Works (849d)	0		20-Feb-16	◆	KD5 - Completion of Section 2 of the Works (849d)										
Works in TS3																
Works in TS3-East																
Cut & Cover Tunnel Structure																
TS3-East CCT - Ch.4500.000 to Ch.4582.140																
TS3 East CCT - Roof Slab																
TS3E_6730	CCT Roof Slab - Bay 1	10	06-Jan-16 A	29-Jan-16 A												
TS3 East CCT - Roof Slab Waterproofing + Screeding																
TS3E_6810	TS3(E) Waterproofing to Roof Slab - Bay 1 to Bay 4	12	04-Jan-16 A	23-Jan-16 A												
TS3E_6820	TS3(E) Waterproofing to Roof Slab - Bay 6 to Bay 8	12	07-Jan-16 A	31-Jan-16 A												
TS3E_6840	TS3(E) Screeding - Bay 1 to Bay 4	12	25-Jan-16 A	12-Feb-16 A												
TS3E_6850	TS3(E) Screeding - Bay 6 to Bay 8	12	22-Jan-16 A	01-Feb-16 A												
 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.		Actual Work Remaining Work Critical Remaining Work ◆ Milestone	Page 1 of 5							Date	Revision	Checked	Approved			
			Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Programme							20-Feb-16	Updated to 20th Feb 2016	DML/WC				

Activity ID		Activity Name		Original Duration	Start	Finish	2016											
							Feb			Mar			Apr			May		
TS3 East - Cable Trough																		
TS3E_6940		TS3(E) Cable Trough Bay 1-8		27	22-Dec-15 A	27-Jan-16 A	Cable Trough; Bay 1-8											
TS3 East - Cross Passage CP32 (CH4552 Westbound)																		
TS3E_6960		CP32 - Roof Slab		8	20-Jan-16 A	20-Jan-16 A												
TS3E_6970		CP32 - Waterproofing to Roof Slab		4	21-Jan-16 A	24-Jan-16 A	Waterproofing to Roof Slab											
TS3E_6980		CP32 - Screeding		4	25-Jan-16 A	28-Jan-16 A	Screeding											
Removal of Reclamation																		
TS3-East Removal of Reclamation																		
TS3E_6560		King post load transfer		10	20-Jan-16 A	29-Jan-16 A	King post load transfer											
TS3E_7550		Layer 4: Removal of waling & lateral struts		6	21-Jan-16 A	25-Feb-16	Layer 4: Removal of waling & lateral struts											
TS3E_7560		Layer 3&7: Removal of waling & lateral struts		8	26-Feb-16	04-Mar-16	Layer 3&7: Removal of waling & lateral struts											
TS3E_7570		Layer 2: Removal of waling & lateral struts		7	19-Mar-16	25-Mar-16	Layer 2: Removal of waling & lateral struts											
TS3E_7580		Removal of king post above sea bed level		7	19-Mar-16	25-Mar-16	Removal of king post above sea bed level											
TS3E_7590		Removal of general fill		14	05-Mar-16	18-Mar-16	Removal of general fill											
TS3E_7600		Removal of seawall block		21	11-Mar-16	31-Mar-16	Removal of seawall block											
TS3E_7610		Sawcutting of diaphragm wall		21	26-Mar-16	15-Apr-16	Sawcutting of diaphragm wall											
TS3E_7620		Backfill & reinstatement of seabed up to -6.0mDP		7	16-Apr-16	22-Apr-16	Backfill & reinstatement of seabed up to -6.0mDP											
TS3E_7630		Achievement of KD2 - Achievement of Stage 2		0		22-Apr-16	Achievement of KD2 - Achievement of Stage 2											
Works in TS3-West																		
Diaphragm Wall																		
TS3-West Post D/wall Works																		
TS3W_3510		D/wall Interface coring + grouting		100	06-Jun-15 A	05-Feb-16 A	D/wall Interface coring + grouting											
TS3W_3520		D/Wall Coring + fissure grouting		100	24-Jun-15 A	11-Feb-16 A	D/Wall Coring + fissure grouting											
TS3W_3530		D/wall integrity test		100	04-Jun-15 A	20-Jan-16 A												
ELS & Rock Excavation																		
ELS Fabrication Works																		
TS3W_4510		ELS struts & waling fabrication		75	17-Sep-15 A	18-Mar-16	ELS struts & waling fabrication											
TS3-West ELS Works																		
TS3W_4515		King Post installation		45	20-Sep-15 A	20-Jan-16 A	King Post installation											
TS3W_4520		Start of ELS - Layer 1: Soft excavation struts installation		15	04-Nov-15 A	19-Feb-16 A	Start of ELS - Layer 1: Soft excavation struts installation											
TS3W_4530		Layer 2: Soft excavation struts installation		15	28-Nov-15 A	27-Feb-16	Layer 2: Soft excavation struts installation											
TS3W_4540		Layer 3: Soft excavation struts installation(Remove Layer 1)		15	28-Jan-16 A	04-Mar-16	Layer 3: Soft excavation struts installation(Remove Layer 1)											
TS3W_4550		Layer 4 Soft excavation struts installation		15	05-Mar-16	19-Mar-16	Layer 4 Soft excavation struts installation											
TS3W_4560		Layer 5: Soft excavation struts installation		15	20-Mar-16	03-Apr-16	Layer 5: Soft excavation struts installation											
TS3W_4570		Layer 6: Soft excavation struts installation		15	04-Apr-16	18-Apr-16	Layer 6: Soft excavation struts installation											

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

Actual Work
Remaining Work
Critical Remaining Work
Milestone

Page 2 of 5

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

Date

20-Feb-16

Revision

Updated to 20th Feb 2016

Checked

DML/WC

Approved

Activity ID	Activity Name	Original Duration	Start	Finish	2016												
					Feb			Mar			Apr			May			
	TS3W_4580	Layer 7: Soft excavation struts installation	15	19-Apr-16	03-May-16												Layer 7: Soft excavation struts installation
Cut & Cover Tunnel Structure																	
Temporary Works Design																	
	TS3W_2125	(01) RC Temp Work Design - submission	24	15-Mar-16	15-Apr-16												(01) RC Temp Work Design - submission
	TS3W_2130	(01) RC Temp Work Design - review and approval by AECOM	24	16-Apr-16	13-May-16												(01) RC Temp Work Design - review and approval by AECOM
Method Statement																	
	TS3W_2135	(01)RC works method statement - submission	24	11-Mar-16	12-Apr-16												(01)RC works method statement - submission
	TS3W_2140	(01)RC works method statement - review and approval by AECOM	24	13-Apr-16	10-May-16												(01)RC works method statement - review and approval by AECOM
SR8 CCT - Sea Side Portion																	
SR8 Works on Reclaimed Area																	
	SR8.MS.1010	ELS Works at SR8 (Marine Side)	90	20-Feb-16	19-May-16												ELS Works at SR8 (Marine Side)
SR8 Sea Side - Blinding + Waterproofing																	
	TS3W_7510	SR8 Blinding Bay 1-6	6	19-May-16	24-May-16												SR8 Blinding Bay 1-6
Works in SR8 (Open Cut Method)																	
SR8 - Cofferdam & Cut & Cover Tunnel Works																	
SR8 East Bound - (Seaside to Victoria Road / IEC Central Divider)																	
Tunnel Ch.514.500 to Ch.459.000 (East Bound) - ELS / CCT / BF + Reinstatement Works																	
ELS Works																	
	SR8.EB.1621	ELS Layer 2 - Soft Excavation + Strut Installation	12	22-Dec-15 A	09-Mar-16												ELS Layer 2 - Soft Excavation + Strut Installation
	SR8.EB.1622	ELS Layer 3 - Soft Excavation + Strut Installation	12	10-Mar-16	23-Mar-16												ELS Layer 3 - Soft Excavation + Strut Installation
	SR8.EB.1623	ELS Layer 4 - Soft Excavation + Strut Installation	12	24-Mar-16	11-Apr-16												ELS Layer 4 - Soft Excavation + Strut Installation
	SR8.EB.1624	ELS Layer 5 - Soft Excavation + Strut Installation	12	12-Apr-16	25-Apr-16												ELS Layer 5 - Soft Excavation + Strut Installation
	SR8.EB.1625	ELS Layer 6 - Soft Excavation + Strut Installation	12	26-Apr-16	10-May-16												ELS Layer 6 - Soft Excavation + Strut Installation
Structural Works																	
Blinding + Waterproofing																	
	SR8.EB.1630	Blinding for Bay 1 to Bay 4	4	10-May-16	16-May-16												Blinding for Bay 1 to Bay 4
	SR8.EB.1670	Waterproofing - Bay 1 to Bay 4	4	16-May-16	20-May-16												Waterproofing - Bay 1 to Bay 4
SR8 West Bound - Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)																	
Tunnel Ch.459.000 to 385.000 (West Bound) - ELS / CCT/ BF+Reinstatement Works																	
West Bound - ELS																	
	SR8.WB.5080	ELS Layer 1 - Soft Excavation + Strut Installation	12	21-Nov-15 A	28-Jan-16 A												ELS Layer 1 - Soft Excavation + Strut Installation
	SR8.WB.5130	ELS Layer 2 - Soft Excavation + Strut Installation	12	30-Nov-15 A	29-Feb-16												ELS Layer 2 - Soft Excavation + Strut Installation
	SR8.WB.5140	ELS Layer 3 - Soft Excavation + Strut Installation	12	01-Mar-16	14-Mar-16												ELS Layer 3 - Soft Excavation + Strut Installation
	SR8.WB.5150	ELS Layer 4 - Soft Excavation + Strut Installation	12	15-Mar-16	31-Mar-16												ELS Layer 4 - Soft Excavation + Strut Installation
	SR8.WB.5160	ELS Layer 5 - Soft Excavation + Strut Installation	12	01-Apr-16	15-Apr-16												ELS Layer 5 - Soft Excavation + Strut Installation

中國建築工程(香港)有限公司

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Actual Work

Remaining Work

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Milestone

Page 3 of 5

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

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Activity ID	Activity Name	Original Duration	Start	Finish	2016											
					Feb			Mar			Apr			May		
West Bound - CCT Structural Works																
Blinding + Waterproofing																
SR8.WB.5090	Blinding for Bay 1 to Bay 8	9	15-Apr-16	26-Apr-16												
SR8 Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)																
SR8 Tunnel - ELS / CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)																
Portal Structure																
Roof Slab																
SR8.VP.5300	Roof Slab - Bay 3	10	15-Dec-15 A	02-Feb-16 A												
Gallery for EP01																
SR8.VP.5310	Wall - Bay 1 to Bay 3	49	20-Feb-16	21-Apr-16												
SR8.VP.5320	Roof Slab - Bay 1 to Bay 3	70	08-Mar-16	03-Jun-16												
Roof Slab Waterproofing + Screeding																
SR8.VP.5330	Waterproofing to Roof Slab - Bay 1 to Bay 3	7	08-Mar-16	15-Mar-16												
SR8.VP.5340	Screeding - Bay 1 to Bay 3	7	16-Mar-16	23-Mar-16												
Pump Sump E																
SR8.VP.5400	Wall + Roof Slab	14	16-Jan-16 A	02-Feb-16 A												
SR8.VP.5410	Access Chamber above Roof	14	20-Feb-16	07-Mar-16												
SR8.VP.5420	Backfill to Ground Level	10	24-Mar-16	08-Apr-16												
SR8.VP.5430	Construct Two Discharge Manholes	10	09-Apr-16	20-Apr-16												
SR8.VP.5440	Slab for Pump Room	21	20-Feb-16	15-Mar-16												
SR8.VP.5450	Slab for Elec. Room	21	20-Feb-16	15-Mar-16												
SR8.VP.5460	E&M Works (By Others)	90	21-Apr-16	08-Aug-16												
Backfill & Reinstatement Works Including Removal of Strutingss																
SR8.VP.5050	Layer 3&2: Removal of Waling & Struts	7	20-Feb-16	27-Feb-16												
SR8.VP.5060	Reinstatement Works inside VP	120	16-Apr-16	07-Sep-16												
SR8.VP.5350	Layer 1: Removal of Waling & Struts	7	08-Apr-16	16-Apr-16												
SR8 Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)																
Excavation and Lateral Support																
SR8_2320	Remove Temporary Access to Bowling Green at Bay 3(CH230 to CH240) After Completion of BG & Pavilion	7	20-Feb-16	27-Feb-16												
RC CCT & Backfill Ch317.5000 to Ch240.000																
Structure																
Wall																
SR8_2120	Drainage Works	21	14-Jan-16 A	05-Feb-16 A												
Utility Through																
SR8_2050	Utility Trough	48	16-Feb-16 A	21-Mar-16												



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- Remaining Work
- Critical Remaining Work
- Milestone

Page 4 of 5

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

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

Activity ID	Activity Name	Original Duration	Start	Finish	2016											
					Feb			Mar			Apr			May		
Backfill & Reinstatement Works Including Removal of Struts																
SR8_1920	SR8 U structure - Backfilling & Compaction + Removal of Struts & Sheet Pile	60	07-Jan-16 A	11-May-16												SR8 U structure -
SR8_1920.10	Backfill and Compaction to North side and South side of U- Structure & Remove Struts by layer	60	08-Jan-16 A	11-May-16												Backfill and Compa
SR8 Structural Slab Ch.240.000 to Ch.210.000																
SR8_2090B	Wall Sterm - Bay 3	7	29-Feb-16	07-Mar-16												
Tsing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St																
Ret. Wall & TF Subway Extension (Portion V)																
Retaining Wall RW8C at Tsing Fung Street (Portion V)																
VP_1390	Demolish Top Portion of Existing Wall Head and Kerb	18	05-Jun-15 A	14-Mar-16												
VP_1400	Road Formation - Subbase + Kerb + U-shape Channel	48	14-Mar-16	13-May-16												Road Formation
VP_1415	PVC Duct and Draw Pits	24	04-Nov-15 A	13-Jun-16												
VP_1770	Install Steel Railing on Top of RW8C	14	20-May-15 A	09-Mar-16												
Retaining Wall + Toe Wall at Hing Fat Street																
Subway Extension at Tsing Fung Street (Portion VIII)																
VP_1375.50	TFS Subway extension - install Railing	8	20-Feb-16	29-Feb-16												
RC Works - Retaining Wall RW8D																
VP_1500	Site Possession Portion IX(1096d) (Toe wall at Hing Fat St)	0	19-Feb-16 A													
RC Works - Toe Wall (RW8E)																
VP_6160	Sheet Piling and Excavation to Formation level	45	20-Feb-16	16-Apr-16												Sheet Piling and Excavation to Formation level
VP_6180	Blinding layer	36	09-May-16	21-Jun-16												
Works in Victoria Park																
Establishment Works for Landscape Softworks																
KD11 - Section 7A: Portion XIV & XV (Victoria Park Open Space)																
EW_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	901	23-Feb-15 A	14-Dec-17												
KD12 - Section 7B: Portion VI & VII (Reprov. Bowling Green Area)																
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	365	03-Dec-15 A	16-Jul-16												
Preservation and Protection of Trees																
PPT_0000	Preservation and Protection of Existing Trees	1088	21-Mar-13 A	20-Nov-16												
Mooring Components Upkeep (CBTS and ATS)																
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17												
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	21-Jan-17												
Works for Public Works Regional Laboratory (North Lantau)																
Maintenance and Upkeep of New PWRL (Portion XVII)																
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17												



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Page 5 of 5

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