CONTRACT NO: HY/2019/18

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 4)

ENVIRONMENTAL PERMIT NO. EP-376/2009, FURTHER ENVIRONMENTAL PERMITS NO. FEP-01/376/2009 AND FEP-02/376/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- MARCH 2020 -

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15 April 2020

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – March 2020 specific for Environmental Permit no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HY/2019/18 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 4). This report presents the environmental monitoring findings and information recorded during the period of 27th February 2020 to 26th March 2020. The cut-off date of reporting is at 26th of each reporting month.

ii. In the reporting month, the principal work activities of the contract are included as follows:

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

- Landscaping

Noise Monitoring

iii. Noise monitoring was conducted at M1a – Footbridge for Ex-Harbour Road Sports Centre.

iv. With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Road Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.

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

vi. With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse noise impact would be contributed by the tree planting works, the respective noise monitoring at noise monitoring station M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre was temporary suspended from 27 March 2019 onwards.

Air Quality Monitoring

vii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office.

viii. With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse air quality impact would be contributed by the tree planting works, the respective air quality monitoring at monitoring stations CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office, were temporary suspended from 27 March 2019 onwards.

Complaints, Notifications of Summons and Successful Prosecutions

ix. No environmental complaint was received in this reporting month.

Site Inspections and Audit

x. The Environmental Team (ET) conducted weekly site inspection for Contract no. HK/2012/08 in this reporting period. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

xi. In the coming reporting month, the principal work activities of the contract is anticipated as follows:

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

- Landscaping

1 INTRODUCTION

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed take up the role as the Environmental Team (ET) under Environmental Permit no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development Phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008).

This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009, during the period of 27th February 2020 to 26th March 2020. The cut-off date of reporting is the 26th of each reporting month.

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 (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) has been approved on 11 December 2008.

2.2 Scope of the Project and Site Description

2.2.1. The design and construction of Wan Chai Development Phase II and Central Wanchai Bypass involves the construction and operation of primary and district distributor roads that is shown at ***Figure 2.1***.

2.2.2. The key purpose of the study area encompasses the Wan Chai harbourfront area. The area starts at the boundary of Central Reclamation Phase III (CRIII) at the west and connects to the existing Hung Hing Road at the east. The scope of the project includes:

- A dual 2-lane primary distributor road, Road P2, approximately 0.6km in length; and
- Other new primary and district distributor roads connecting to the slip roads of the Central-Wan Chai Bypass with a total length of approximately 0.7km.

2.2.3. The project also contains various Schedule 2 DP 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 DP under this Project. ***Figure 2.1*** shows the locations of these Schedule 2 DP.

Table 2.1 Schedule 2 Designated Project under this Project

Item	Designated Project	EIAO Reference
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1

2.2.4. The designated project work II (DP2) was awarded to China State – Build King Joint Venture HK/2012/08 (Contract Title: Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai West) as part of the Project works by the Civil Engineering and Development Department (CEDD). The construction work under Contract no. HK/2012/08 was commenced on 13 May 2015.

2.3 Project Organization and Contact Personnel

2.3.1 Civil Engineering and Development Department and Highway 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.

2.3.2 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 2.2***:

Table 2.2 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Resident Engineer	Mr. Eliot Liu	3519 9167	2587 1877
China State-Build King Joint Venture	Contractor under Contract no. HK/2012/08	Project Director	C. N. LAI	9106 5806	2877 1522
		Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y.L. Ho	9856 5669	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.3.3 In this reporting month, the principal work activities of the contract is included as follows:

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

- Landscaping

2.3.4 In coming reporting month, the principal work activities of the contract is anticipated as follows:

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

- Landscaping

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-376/2009	13 Nov 2009	Valid
Further Environmental Permit	FEP-01/376/2009	31 Mar 2015	Valid
Further Environmental Permit	FEP-02/376/2009	1 Aug 2016	Valid

3.1.2. The current status on licences and/or permits on environmental protection pertinent for contract no. HK/2012/08 under FEP-02/376/2009 showed in ***Table 3.2.*** and ***Table 3.3***

Table 3.2 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-01/376/2009	31 Mar 2015	N/A	Valid
	FEP-02/376/2009	1 Aug 2016	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	30 Jun 2016	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	N/A	Valid
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Expired

Table 3.3 Summary of submission status under FEP-02/376/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 27 Oct 2015
Condition 2.10	Landscape Plan (Rev. 0)	Generally in order as commented by EPD on 5 Aug 2015
Condition 2.10	Landscape Plan (Rev. 1)	Generally in order as commented by EPD on 20 March 2020

3.1.3. Implementation status of the recommended mitigation measures during this reporting month is presented in ***Appendix 3.1***.

4 MONITORING REQUIREMENTS

4.1 Noise Monitoring

NOISE MONITORING STATION

4.1.1. The noise monitoring station for the Project is 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 Station

District	Station	Description
Wan Chai	M1a	Footbridge for Ex-Harbour Road Sports Centre

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). $L_{eq\ (30\ minutes)}$ shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, $L_{eq\ (5\ minutes)}$ shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

4.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

- One set of measurements between 0700 and 1900 hours on normal weekdays.

MONITORING EQUIPMENT

4.1.4. As referred to in the Technical Memorandum ™ issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.

4.1.5. 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.

4.2 Air Quality Monitoring

AIR QUALITY MONITORING STATIONS

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

Table 4.2 Air Quality Monitoring Stations

Station ID	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.

4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

- 0.6 – 1.7 m^3 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.

5 MONITORING RESULTS

5.0.1. The environmental monitoring will be implemented based on the division of works areas of the designated project managed under the contract with 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***.

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

5.1 Noise Monitoring Results

5.1.1 The proposed division of noise monitoring station is summarized in ***Table 5.1*** below.

Table 5.1 Noise Monitoring Station for Contract no. HK/2012/08

Location ID	District	Description
M1a	Wan Chai	Footbridge for Ex-Harbour Road Sports Centre

5.1.2 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse noise impact would be contributed by the tree planting works, the respective noise monitoring at noise monitoring station M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre was temporary suspended from 27 March 2019 onwards.

5.2 Air Quality Monitoring Results

5.2.1 The proposed division of air quality monitoring stations are summarized in ***Table 5.2*** below.

Table 5.2 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

5.2.2 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse air quality impact would be contributed by the tree planting works, the respective air quality monitoring at air quality monitoring stations CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office were temporary suspended from 27 March 2019 onwards

5.3 Waste Monitoring Results

5.3.1 No Inert and non-inert C&D wastes disposed in this reporting month. Details of the waste flow table are summarized in ***Table 5.3***.

Table 5.3 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	NIL	NIL	NIL
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	NIL	NIL	NIL
Non-inert C&D materials recycled, m3	NIL	NIL	NIL
Chemical waste disposed, kg	NIL	NIL	NIL

6 COMPLIANCE AUDIT

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

6.1 Noise Monitoring

6.1.1 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse noise impact would be contributed by the tree planting works, the respective noise monitoring at noise monitoring station M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre was temporary suspended from 27 March 2019 onwards.

6.2 Air Quality Monitoring

6.2.1 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse air quality impact would likely be contributed by the tree planting works, the respective air quality monitoring at air quality monitoring stations CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office were temporary suspended from 27 March 2019 onwards.

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

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

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

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

7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

7.0.1. According to the Condition 3.4 of the EP-376/2009, 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, no works was conducted in March 2020 reporting period. In view of the above, the cumulative construction impact due to the Central Reclamation Phase III (CRIII) was not anticipated.

7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, lighting column installation works under Wan Chai Development Phase II was conducted at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building ABWF works at Central; road works, drainage improvement work, utility diversion works and landscape works at Victoria Park; bridge noise enclosure installation works, road works, drainage works, soft landscape works and ventilation building ABWF work at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.

7.0.5. As relevant site mitigation measures for air quality and construction noise were implemented, no significant air quality impact and noise impact from construction activities was concluded in the reporting period. Besides, no finding in related to air quality and noise impact was recorded during the weekly site inspection of EP-376 area in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central- WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

8 ENVIRONMENTAL SITE AUDIT

8.0.1. Four site inspections for Contract no. HK/2012/08 were carried out on 3, 10, 17 and 24 March 2020 in this reporting period. No observation was found in the reporting period.

Mitigation measures implemented to prevent muddy discharge and surface runoff

8.0.2. With a view to ensure the adequacy and effectiveness of measures to prevent the discharge of muddy water, including surface run-off, from construction works, the following mitigation measures were implemented by Contractor(s) in the reporting period:

Contract No.	Mitigation Measures implemented
HK/2012/08	• The remaining works associated with HK/2012/08 at EP-376 area would be landscape works only, the water quality impact in related to muddy water discharge and surface runoff was not anticipated.

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. No environmental complaint was received in the reporting period.

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

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

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (May 2015) to last reporting month	0
March 2020	0
Total	0

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	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	**0**	**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.

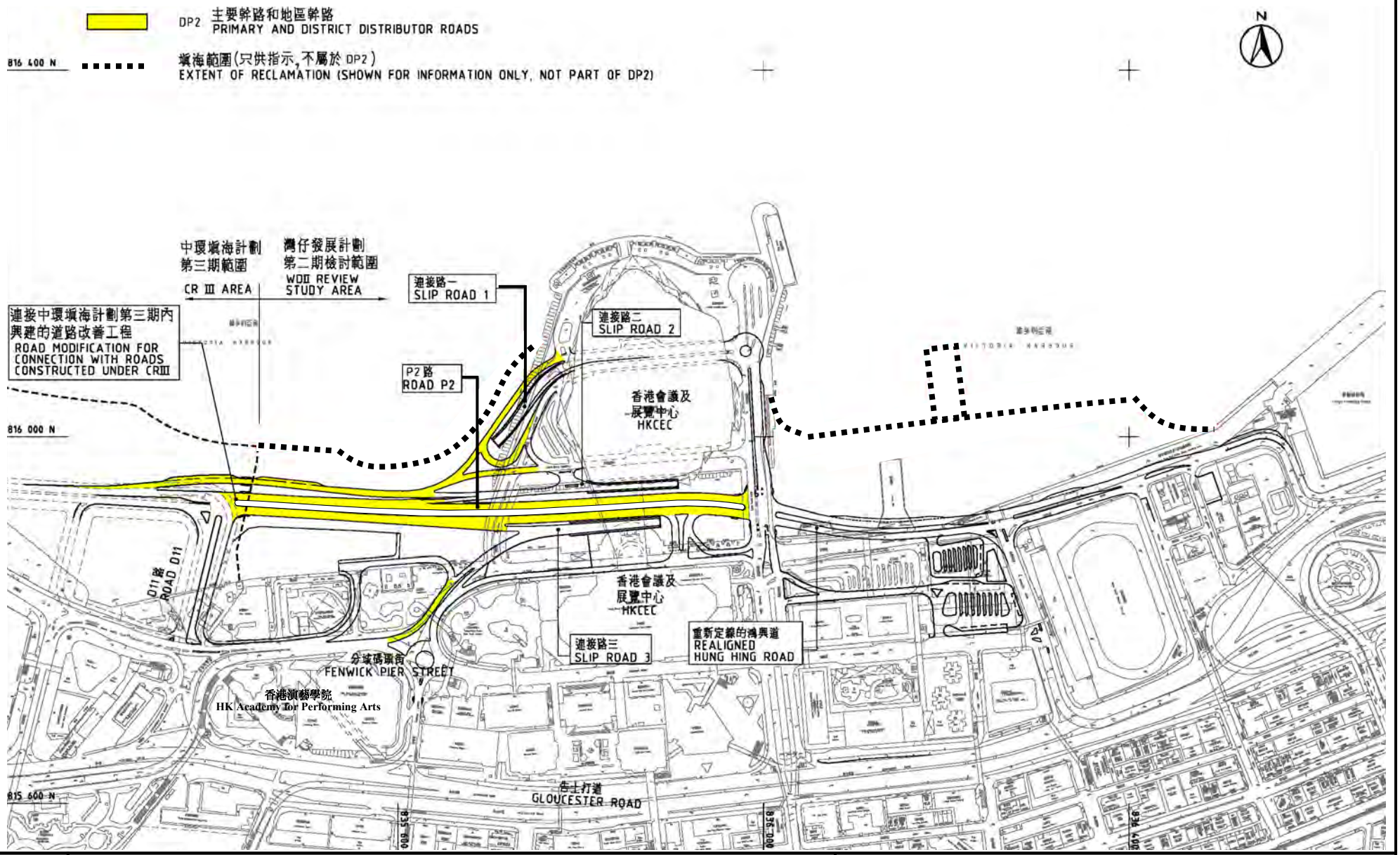
10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in ***Table 10.1***. The construction programmes of individual contracts are provided in ***Appendix 10.1***.

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
HK/2012/08	• Landscaping	• Nil

Figure 2.1

Project Layout



Project Title : Road P2 and other roads which are classified as primary/district distributor roads (referred to as "DP2" in the WDII&CWB EIA Report)
工程項目名稱 : P2 路及其他分類爲主要幹路或地區幹路的道路(WDII&CWB 環評報告內稱"DP2")
Environmental Permit No. : EP-376/2009
環境許可證編號 : EP-376/2009

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

(This figure was prepared based on Figure 1.2b of the WDII&CWB EIA report (Register No.: AEIAR-125/2008))
(本圖是根據 WDII&CWB 環評報告(登記冊編號 AEIAR-125/2008)圖 1.2b 編制)

Figure 2.2

Project Organization Chart

Project Organization Chart

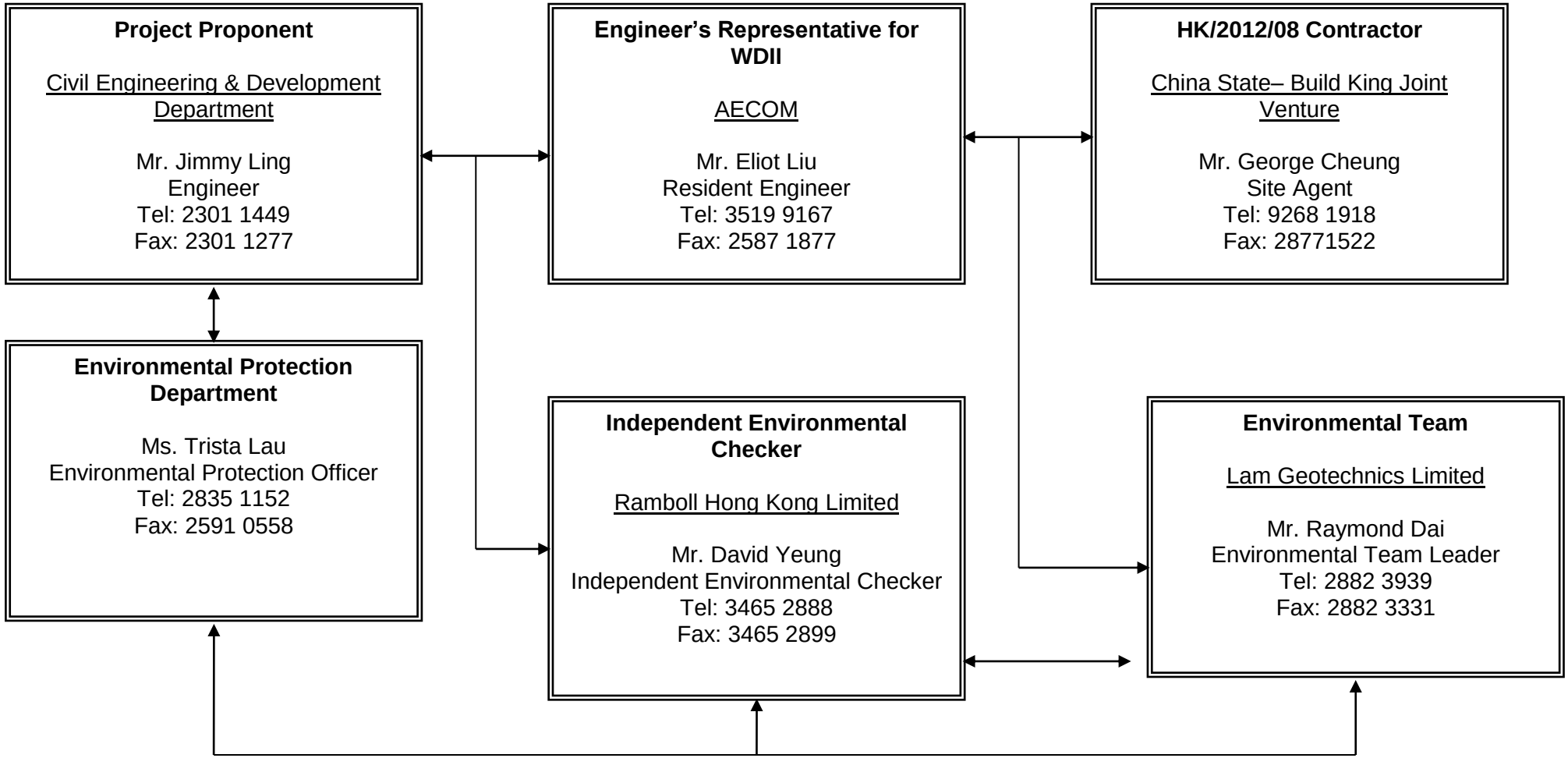
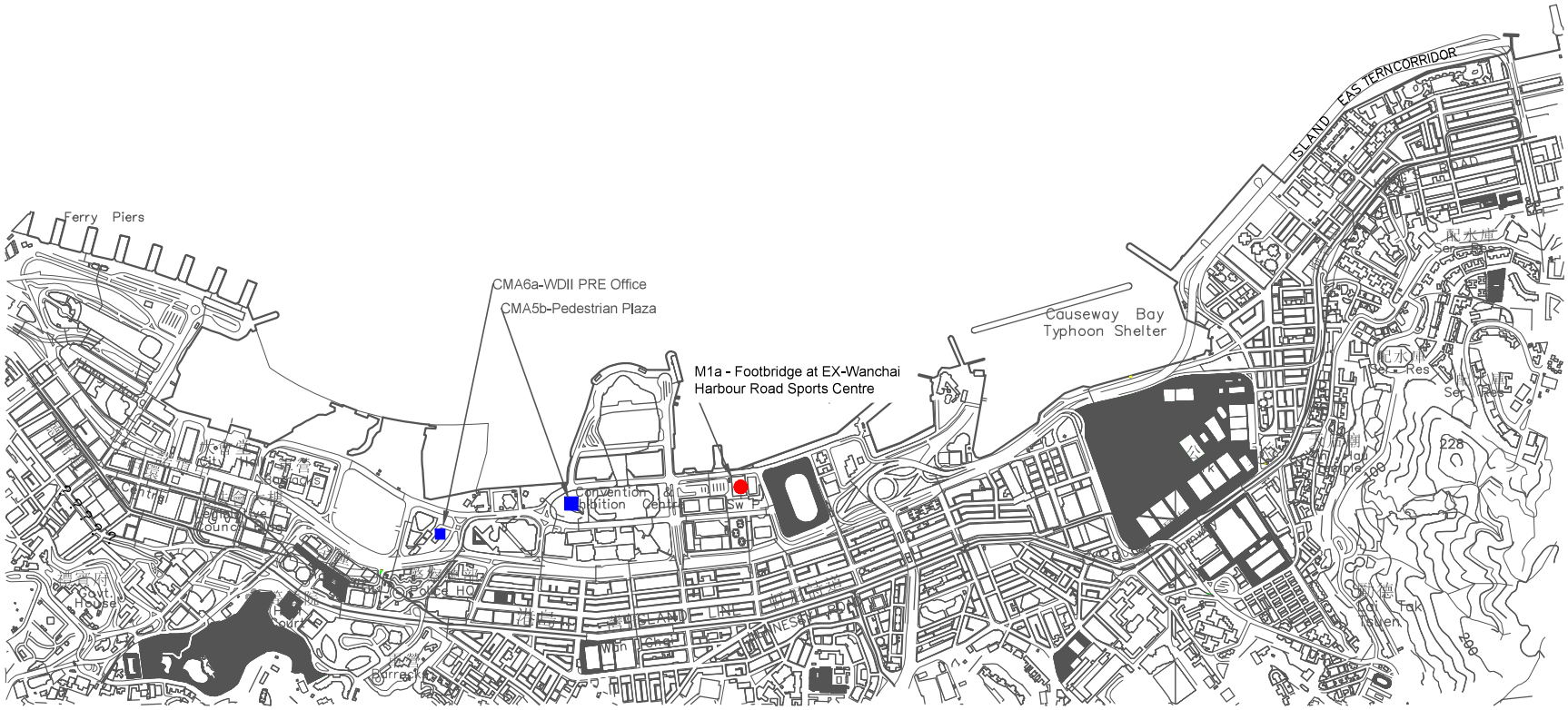


Figure 4.1

Locations of Monitoring Stations



LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS

Appendix 3.1

Environmental Mitigation Implementation Schedule

Appendix A

Table A13.1 Implementation Schedule for Air Quality Control
Table A13.2 Implementation Schedule for Noise Control
Table A13.3 Implementation Schedule for Water Quality Control
Table A13.4 Implementation Schedule for Waste Management
Table A13.7 Implementation Schedule for Landscape and Visual

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A13.1 Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
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		√			

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

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S4.9.4	Good Site Practice: ▪ Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. ▪ Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. ▪ Mobile plant, if any, shall be sited as far away from NSRs as possible. ▪ Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. ▪ Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. ▪ Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities.	Work site / during construction	Contractor		√			EIAO-TM, NCO
For DP2 – WDII Major Roads (Road P2)								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: ▪ Temporary road diversion ▪ Resurfacing ▪ At-grade roadwork	Work site / during construction	Contractor		√			EIAO-TM, NCO

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S5.8	*Construction Runoff and Drainage* ▪ use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; ▪ Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; ▪ a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; ▪ Oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; ▪ On-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be	Work site / during construction	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

	installed in order to minimise the sediment loading of the effluent prior to discharge; ▪ All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. ▪ The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer required. ▪ All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. ▪ Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
S5.8	*Sewage from Construction Work Force* Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / during construction	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

S5.8	*Floating Debris and Refuse* Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		√			WPCO
S5.8	*Storm Water Discharges* Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S6.7.7	*Good Site Practices* Recommendations for good site practices during the construction activities include: ▪ nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; ▪ training of site personnel in proper waste management and chemical waste handling procedures; ▪ provision of sufficient waste disposal points and regular collection for disposal; ▪ appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; ▪ regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and ▪ a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	Work site / During planning and design stage, and construction stage	Contractor		√			
S.6.7.8	*Waste Reduction Measures* Recommendations to achieve waste reduction include: • Sort C&D waste from demolition of the existing waterfront structures to recover	Work site / During planning and design stage, and construction stage	Contractor	√	√			

	recyclable portions such as metals. • 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. • Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated 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. • Proper storage and site practices to minimise the potential for damage or contamination of construction materials. • Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.							
S6.7.10	*General Refuse* General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)

S6.7.11	*Chemical Wastes* After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12 – S6.7.13	*Construction and Demolition Material* C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials. 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		√			DEVB TCW No.6/2010; ETWB TCW No. 33/2002; ETWB TCW No. 19/2005
S6.7.14	*Bentonite Slurry* The disposal of residual used bentonite slurry shall follow the good practice guidelines stated	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

	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.							

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

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			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
For DP2 – WDII Major Roads (Road P2)								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			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								
For DP2 – WDII Major Roads (Road P2)								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		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)

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.
**The Limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school examination periods, respectively.*

Action and Limit Level for Air Monitoring

Monitoring Locations	1-hour TSP Level inμg/m3		24-hour TSP Level inμg/m3	
	Action Level	Limit Level	Action Level	Limit Level
CMA5b Pedestrian Plaza	339.7	500	209.9	260
CMA6a WDII PRE Site Office	333.0	500	207.1	260

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HY/2019/18
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 4)
Environmental Monitoring Schedule
March 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Mar	02-Mar	03-Mar Weekly Environmental Site Audit	04-Mar	05-Mar	06-Mar	07-Mar
08-Mar	09-Mar	10-Mar Weekly Environmental Site Audit	11-Mar	12-Mar	13-Mar	14-Mar
15-Mar	16-Mar	17-Mar Weekly Environmental Site Audit	18-Mar	19-Mar	20-Mar	21-Mar
22-Mar	23-Mar	24-Mar Weekly Environmental Site Audit	25-Mar	26-Mar	27-Mar	28-Mar

Contract No. HY/2019/18
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 4)
Tentative Environmental Monitoring Schedule
April 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Mar	30-Mar	31-Mar Weekly Environmental Site Audit	01-Apr	02-Apr	03-Apr	04-Apr
05-Apr	06-Apr	07-Apr Weekly Environmental Site Audit	08-Apr	09-Apr	10-Apr	11-Apr
12-Apr	13-Apr	14-Apr Weekly Environmental Site Audit	15-Apr	16-Apr	17-Apr	18-Apr
19-Apr	20-Apr	21-Apr Weekly Environmental Site Audit	22-Apr	23-Apr	24-Apr	25-Apr

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. 4. Identify source and investigate the cause of exceedance; 5. 5. Carry out analysis of Contractor's working procedures; 6. 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)

Event and Action Plan for Marine Water Quality

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

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

Event and Action Plan for Odour Patrol

Event	ACTION	
	Person-in-charge of Odour Monitoring	**Implementation Agent Identified by CEDD**
Action Level		
Exceedance of Action Level	1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding.	1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.

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
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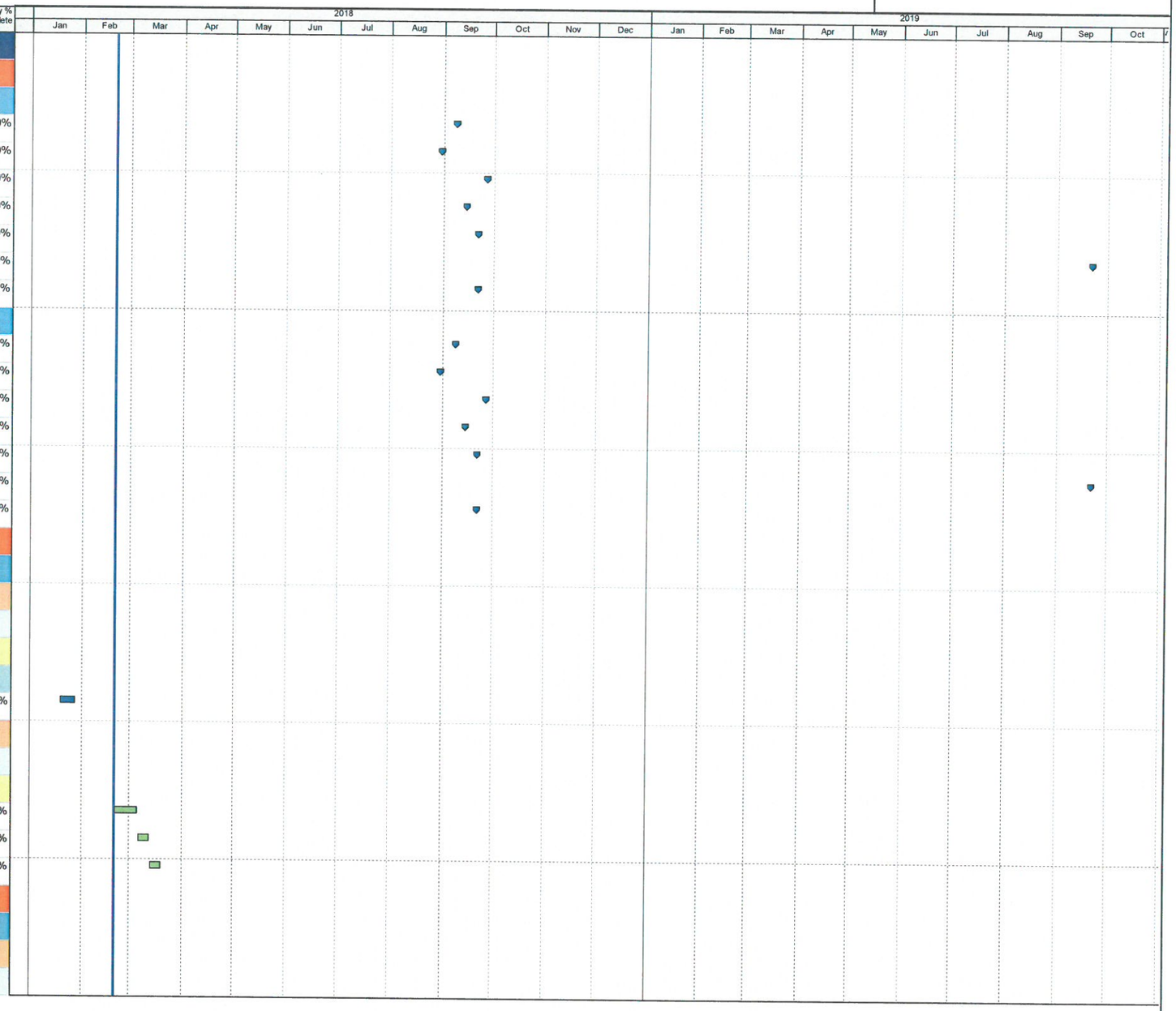
Appendix 10.1

Construction Programme of Individual Contracts

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

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
HK/2012/08 Revised Works Programme Rev.12.0(DD 20 November 2017)					
Key Dates and Milestone Dates					
Sections of Works Completion (Included Not Granted EOT Entitlement of The Contractor)					
KD10840	Completion of Section IIIA	0		08-Sep-18*	0%
KD10860	Complection of Section IV	0		30-Aug-18*	0%
KD10880	Completion of Section V	0		26-Sep-18*	0%
KD11010	Completion of Section VII	0		14-Sep-18*	0%
KD11020	Completion of Section VIII	0		21-Sep-18*	0%
KD11040	Completion of Section IX	0		21-Sep-19*	0%
KD11060	Completion of Section X	0		21-Sep-18*	0%
Planned Sections of Works Completion					
KD10080	Planned Section IIIA Completion - Road A2,A4, A5	0		08-Sep-18	0%
KD10100	Planned Section IV Completion - Slip Road 3	0		30-Aug-18	0%
KD10140	Planned Section V Completion - Remaining At-Grade Road	0		26-Sep-18	0%
KD10280	Planned Section VII Completion - Remainder Works	0		14-Sep-18	0%
KD10300	Planned Section VIII Completion - Landscape Softwork	0		21-Sep-18	0%
KD10320	Planned Section IX Completion - Establishment Works	0		21-Sep-19	0%
KD10340	Planned Section X Completion - Tree Protection & Preservation	0		21-Sep-18	0%
Dredging and Reclamation					
Marine Work Construction					
Zone CRIII					
Seawall Construction - Zone CRIII					
Zone CRIII Seawall- 2nd Stage					
Seawall 2 & 12					
MAR21371	Zone CRIII - seawall 2 & 12 - Backfilling remaining portion (type A, geotextile and filter)	0	19-Jan-18 A	27-Jan-18 A	100%
Zone D					
Seawall Construction - Zone D					
Seawall 10 & 11					
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	14	20-Feb-18*	05-Mar-18	0%
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	7	06-Mar-18	12-Mar-18	0%
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	7	13-Mar-18	19-Mar-18	0%
Works for Section Completion					
Construction					
Section III A - Road A2, A4 & A5					
Roadwork & Utilities - Section 1 (L1806 - L1801)					



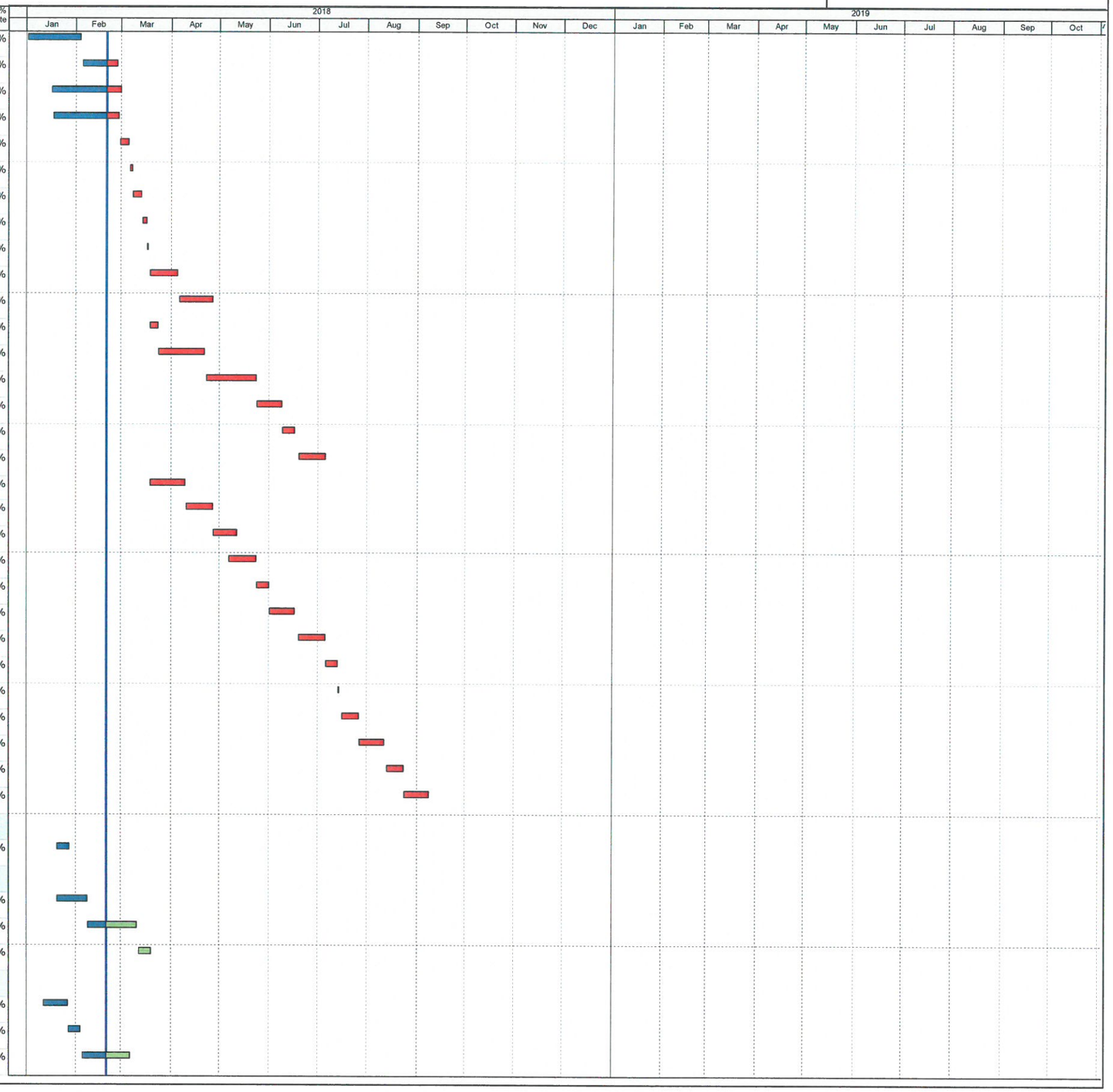
Data Date:
20-Feb-18

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

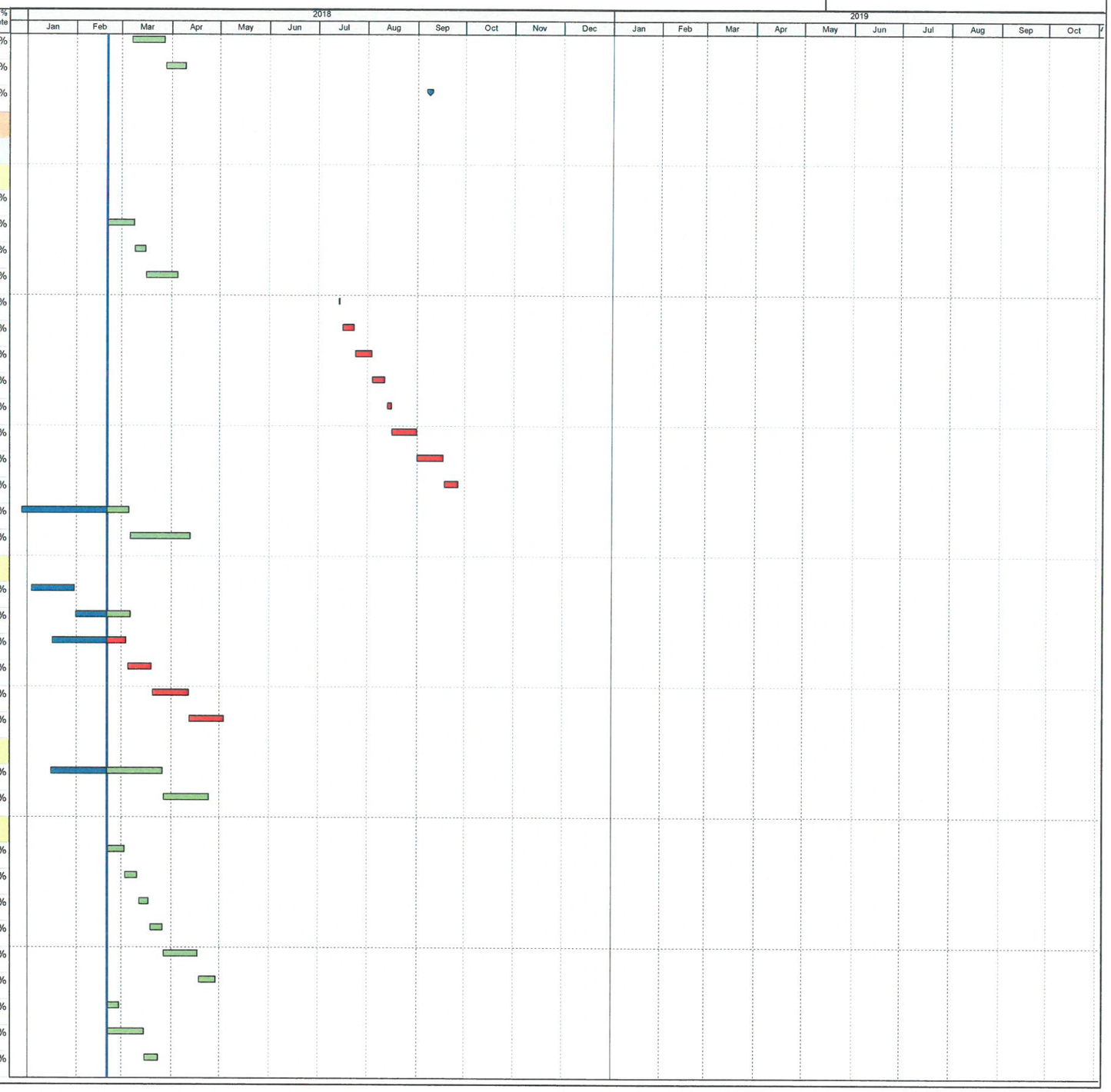
Updated Works Programme Rev.12
(Ref. to Rev.12 as of 20 Feburary 2018)

Date	Revision	Checked	Approved
20-Feb-18	12		

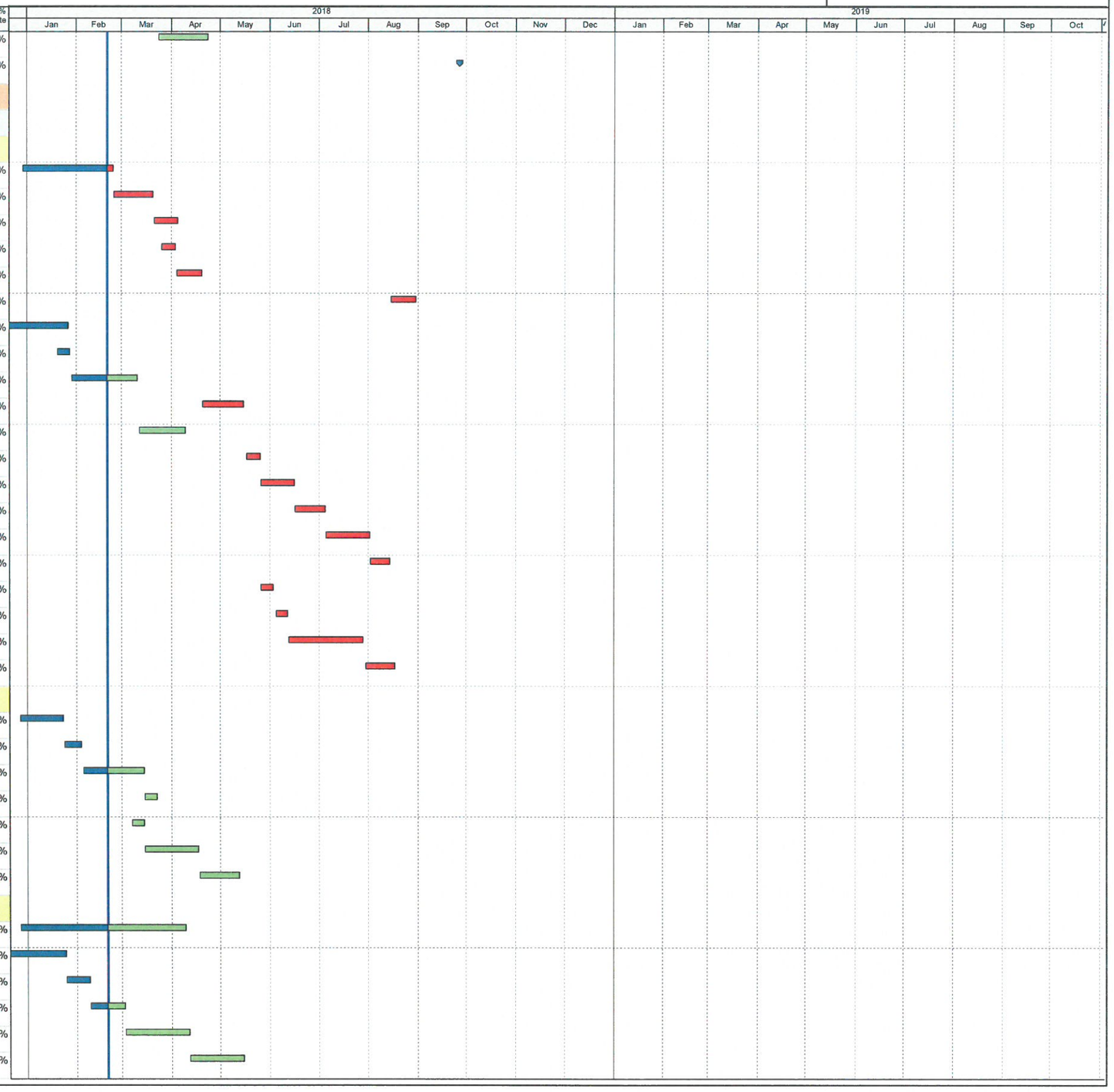
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
SIIIA10279c	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time): construct sewerage pipe	0	02-Jan-18 A	03-Feb-18 A	100%
SIIIA10293	Sec III A - section 1 carriageway - sewerage pipe from M/H F8B - F8A (night time)	6	05-Feb-18 A	26-Feb-18	0%
SIIIA10294	Sec III A - section 1 carriageway - sewerage pipe from M/H F8A - F8	8	17-Jan-18 A	28-Feb-18	27.27%
SIIIA10295	Sec III A - carriageway - works prrior TTA stage 5: excavation and duct laying of TCSS and public lighting	7	18-Jan-18 A	27-Feb-18	0%
SIIIA10298	Sec III A - section 1 carriageway - works prrior TTA stage 5: road kerb	5	28-Feb-18	05-Mar-18	0%
SIIIA10301	Sec III A - section 1 carriageway - works prrior TTA stage 5: road formation	2	06-Mar-18	07-Mar-18	0%
SIIIA10302	Sec III A - section 1 carriageway - works prrior TTA stage 5: laying asphalt	5	08-Mar-18	13-Mar-18	0%
SIIIA10303	Sec III A - section 1 carriageway - works prrior TTA stage 5: road marking & preparation works	3	14-Mar-18	16-Mar-18	0%
SIIIA10310	Sec III A - section 1 carriageway - TTA stage 5: Implementation of TTA Stage 5	1	17-Mar-18	17-Mar-18	0%
SIIIA10310a	Sec III A - section 1 carriageway - TTA stage 5: remaining sewerage pipe for M/H F8A - M/H F8	12	19-Mar-18	04-Apr-18	0%
SIIIA10310b	Sec III A - section 1 carriageway - TTA stage 5: remaining sewerage pipe for M/H F8A - M/H F8B	18	06-Apr-18	26-Apr-18	0%
SIIIA10310c	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road- remove sheetpile at U-trough west	5	19-Mar-18	23-Mar-18	0%
SIIIA10310d	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -remove temp. road access bay 5 of SR1	21	24-Mar-18	21-Apr-18	0%
SIIIA10310e	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -construct upstand wall above Dwall	25	23-Apr-18	23-May-18	0%
SIIIA10310f	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - roadside barrier	14	24-May-18	08-Jun-18	0%
SIIIA10310g	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - road formation	7	09-Jun-18	16-Jun-18	0%
SIIIA10310h	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - laying asphalt with transition slab	14	19-Jun-18	05-Jul-18	0%
SIIIA10312	Sec III A - roadwork and utlities section 1 carriageway - Drainage works (L2202 - L2201)	15	19-Mar-18	09-Apr-18	0%
SIIIA10312a	Sec III A - roadwork and utlities section 1 carriageway - Drainage works (L1805 - L1801)	15	10-Apr-18	26-Apr-18	0%
SIIIA10312b	Sec III A - roadwork and utlities section 1 carriageway - Drainage works (L1805-1807)	12	27-Apr-18	11-May-18	0%
SIIIA10313	Sec III A - roadwork and utlities section 1 carriageway - gully pipe (L1807 - L1801)	14	07-May-18	23-May-18	0%
SIIIA10320	Sec III A - roadwork and utlities section 1 carriageway - fresh watermain	7	24-May-18	31-May-18	0%
SIIIA10340	Sec III A - roadwork and utlities section 1 carriageway - utilities: HEC (80m) along carriageway	14	01-Jun-18	16-Jun-18	0%
SIIIA10360	Sec III A - roadwork and utlities section 1 carriageway - road kerb & formation	14	19-Jun-18	05-Jul-18	0%
SIIIA10400	Sec III A - roadwork and utlities section 1 carriageway - black top	7	06-Jul-18	13-Jul-18	0%
SIIIA10420	Sec III A - Implementation of TTA Stage 7P (Closure of U-turn at Expo Drive)	1	14-Jul-18	14-Jul-18	0%
SIIIA10440	Sec III A - roadwork and utlities section 1 carriageway : breaking existing asphalt	10	16-Jul-18	26-Jul-18	0%
SIIIA10460	Sec III A - roadwork and utlities section 1 carriageway: road kerb and formation	14	27-Jul-18	11-Aug-18	0%
SIIIA10480	Sec III A - roadwork and utlities section 1 carriageway : black top	10	13-Aug-18	23-Aug-18	0%
SIIIA10500	Sec III A - roadwork and utlities section 1 carriageway : roadmarking and road furniture	14	24-Aug-18	08-Sep-18	0%
Roadwork & Utilities - Section 2 (L1810 - L1807)					
SIIIA12590	Sec III A - roadwork and utlities section 2 carriageway - black top	0	20-Jan-18 A	27-Jan-18 A	100%
Roadwork & Utilities - Section 3 (L1808 - L1102)					
SIIIA12770	Sec III A - roadwork and utlities section 3 carriageway - utilities: HEC ducting (60m) & crossroad duct (PCCW & HGC)	0	20-Jan-18 A	07-Feb-18 A	100%
SIIIA12790	Sec III A - roadwork and utlities section 3 carriageway - road kerb & formation	17	08-Feb-18 A	10-Mar-18	0%
SIIIA12810	Sec III A - roadwork and utlities section 3 carriageway - black top	7	12-Mar-18	19-Mar-18	0%
Roadwork & Utilities - Section 6 (L1102 - L1411)					
SIIIA13399	Sec III A - roadwork and utlities section 6 carriageway - gully pipe (L1101 -L1102)	0	12-Jan-18 A	26-Jan-18 A	100%
SIIIA13444	Sec III A - roadwork and utlities section 6 carriageway - watermain (road crossing)	0	27-Jan-18 A	03-Feb-18 A	100%
SIIIA13445	Sec III A - roadwork and utlities section 6 carriageway - utilities: crossed duct(HEC , HGC, PCCW)	13	05-Feb-18 A	06-Mar-18	0%



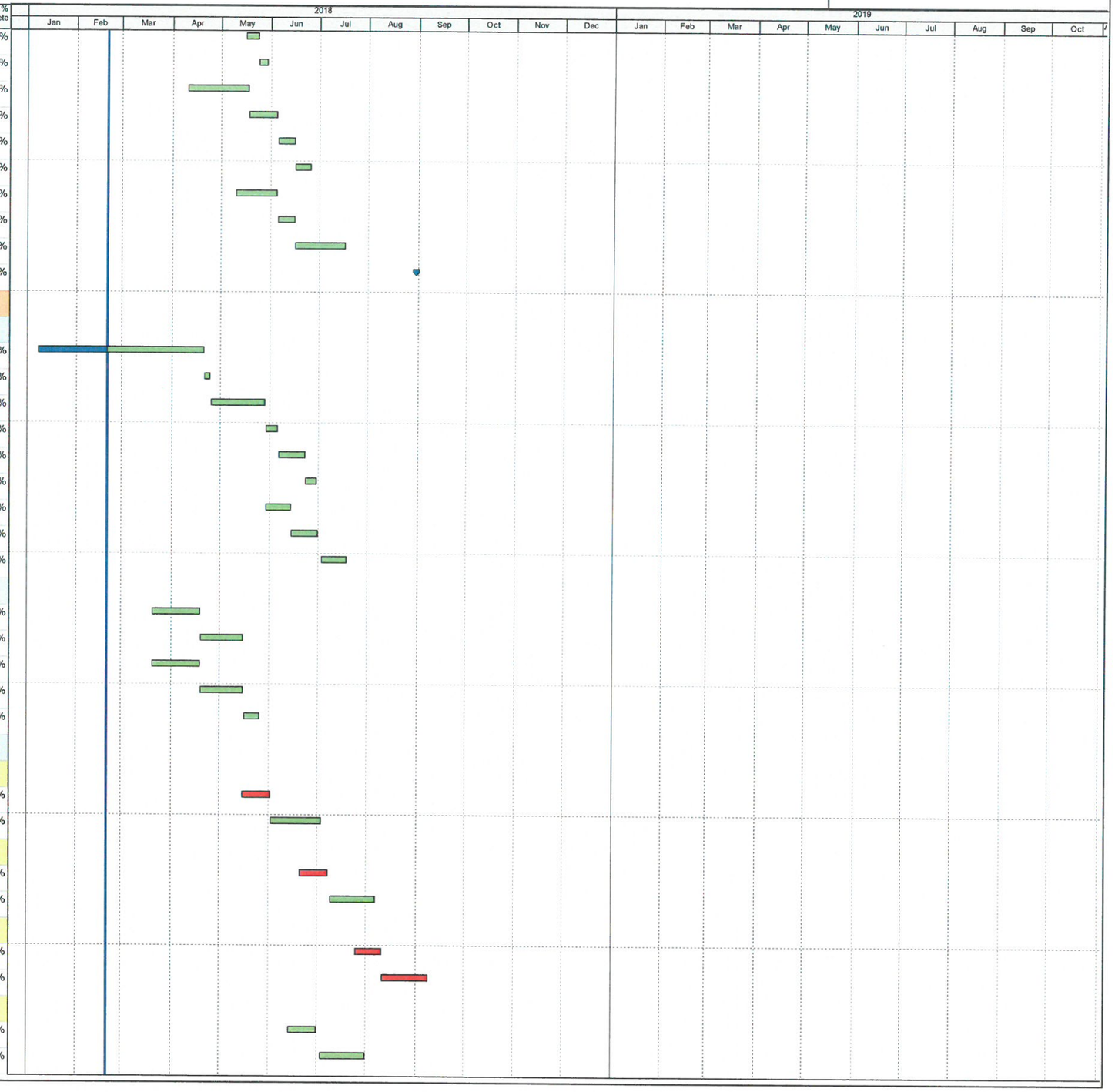
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
SIIIA13450	Sec III A - roadwork and utlities section 6 carriageway - road kerb & formation	18	07-Mar-18	27-Mar-18	0%
SIIIA13470	Sec III A - roadwork and utlities section 6 carriageway - black top	7	28-Mar-18	09-Apr-18	0%
SIIIA13570	Achievement of Section IIIA of the Works	0		08-Sep-18	0%
Section V - Remaining At-Grade Road & Road P2					
Roadwork & Utilities					
Section 1 (L1504 - L1900)					
SV12456	Sec V-Roadwork & Utilities Section 1 - implementation of TTA stage 5E (closure of slow lane at northbound of Expo	0	20-Feb-18*	20-Feb-18	0%
SV12460	Sec V - Roadwork & Utilities Section 1 - drinage works (L1902 - L1900)	15	20-Feb-18	08-Mar-18	0%
SV12462	Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 - L1900)	6	09-Mar-18	15-Mar-18	0%
SV12464	Sec V - Roadwork & Utilities Section 1 - temp. reinstatement to match with existing Expo Drive	14	16-Mar-18	04-Apr-18	0%
SV12466	Sec V - Section 1 - Modification to 2nd stage ITA (V.O. 50) : closure of northbound and maintain one lane at southbound	1	14-Jul-18	14-Jul-18	0%
SV12468	Sec V - Roadwork & Utilities Section 1 Carriageway - breaking existing asphalt	7	16-Jul-18	23-Jul-18	0%
SV12490	Sec V - Roadwork & Utilities Section 1 Carriageway - Road kerb & formation	10	24-Jul-18	03-Aug-18	0%
SV12520	Sec V - Roadwork & Utilities Section 1 Carriageway - Black top	7	04-Aug-18	11-Aug-18	0%
SV12522	Sec V - Section 1 - Implementation of TTA for road closure of northbound and southbound of Expo Drive	3	13-Aug-18	15-Aug-18	0%
SV12524	Sec V - Section 1 - Northbound & Southbound of Expo Drive : breaking asphalt	14	16-Aug-18	31-Aug-18	0%
SV12526	Sec V - Section 1 - Northbound & Southbound of Expo Drive : road kerb & formation	14	01-Sep-18	17-Sep-18	0%
SV12528	Sec V - Section 1 - Northbound & Southbound of Expo Drive : black top	7	18-Sep-18	26-Sep-18	0%
SV12570	Sec V - Roadwork & Utilities Section 1 footpath - utilities:TCSS	12	29-Dec-17 A	05-Mar-18	60%
SV12580	Sec V - Roadwork & Utilities Section 1 footpath - paving block	29	06-Mar-18	12-Apr-18	0%
Section 2 (L1510 - L1504)					
SV12624	Sec V - Roadwork & Utilities Section 1 Carriageway - road kerb & formation	0	04-Jan-18 A	30-Jan-18 A	100%
SV12626	Sec V - Roadwork & Utilities Section 1 Carriageway - black top	13	31-Jan-18 A	06-Mar-18	0%
SV12692	Sec V - Roadwork & Utilities Section 2 footpath - U channel	11	17-Jan-18 A	03-Mar-18	21.43%
SV12695	Sec V - Roadwork & Utilities Section 2 footpath - Watermain	13	05-Mar-18	19-Mar-18	0%
SV12700	Sec V - Roadwork & Utilities Section 2 footpath - utilities: TCSS	16	20-Mar-18	11-Apr-18	0%
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	12-Apr-18	03-May-18	0%
Section 3 (Culvert L - L1510)					
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGC, PCCW)	30	16-Jan-18 A	26-Mar-18	11.76%
SIV12880	Sec V - Roadwork & Utilities Section 3 footpath - Paving block	21	27-Mar-18	24-Apr-18	0%
Section 4 (K1106 - Culvert L)					
SIV12282	Sec V - Roadwork & Utilities Section 4 Carriageway - Drainage Works (L1311 - Culvert L, L1201 - Culvert L)	10	20-Feb-18	02-Mar-18	0%
SIV12300	Sec V - Roadwork & Utilities Section 4 Carriageway - Gully pipe (L1301 - Culvert L, L1201 - Culvert L)	7	03-Mar-18	10-Mar-18	0%
SIV12302	Sec V - Roadwork & Utilities Section 4 Carriageway - watermain	6	12-Mar-18	17-Mar-18	0%
SIV12305	Sec V - Roadwork & Utilities Section 4 Carriageway - utilities : cross road duct	7	19-Mar-18	26-Mar-18	0%
SIV12310	Sec V - Roadwork & Utilities Section 4 Carriageway - Road kerb & formation : between culvert K and culvert L	15	27-Mar-18	17-Apr-18	0%
SIV12320	Sec V - Roadwork & Utilities Section 4 Carriageway - Black top : between culvert K and culvert L	10	18-Apr-18	28-Apr-18	0%
SIV12340	Sec V - Roadwork & Utilities Section 4 Carriageway - Black top : at west of culvert K	7	20-Feb-18	27-Feb-18	0%
SIV12422	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : TCSS	20	20-Feb-18	14-Mar-18	0%
SIV12440	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW	8	15-Mar-18	23-Mar-18	0%



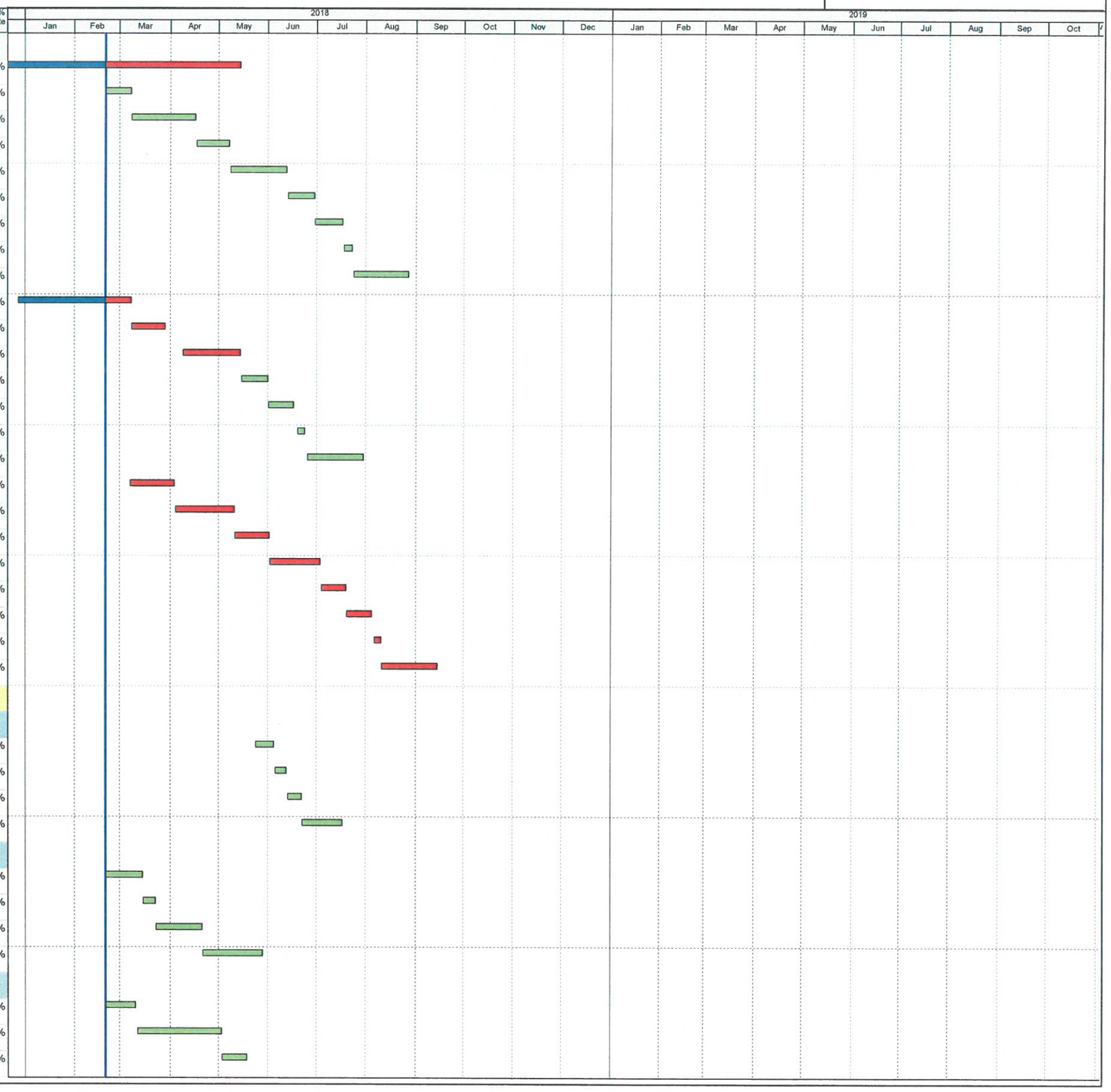
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
SIV12460	Sec V - Roadwork & Utilities Section 4 footpath - Paving block	22	24-Mar-18	23-Apr-18	0%
SV10300	Achievement of Section V of the Works	0		26-Sep-18	0%
Section IV - Slip Road 3					
Roadwork & Utilities					
Section 1 (L16608 - L1601)					
SIV11747	Sec IV - sign gantry DS20 & DS21 footing (type 2): excavation & ELS	4	30-Dec-17 A	23-Feb-18	80.95%
SIV11748	Sec IV - sign gantry DS20 & DS21 footing (type 2): footing structure	21	24-Feb-18	20-Mar-18	0%
SIV11749	Sec IV - sign gantry DS20 & DS21 footing (type 2): removal of ELS and backfilling	10	21-Mar-18	04-Apr-18	0%
SIV11751	Sec IV - sign gantry DS21 footing (type 3): excavation	5	26-Mar-18	03-Apr-18	0%
SIV11752	Sec IV - sign gantry DS21 footing (type 3): footing structure	13	04-Apr-18	19-Apr-18	0%
SIV11753	Sec IV - sign gantry DS20: install steel frame of gantry D20	14	15-Aug-18	30-Aug-18	0%
SIV11760	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1607 - L1601)	0	09-Dec-17 A	26-Jan-18 A	100%
SIV11761	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1602 - L2005)	0	20-Jan-18 A	27-Jan-18 A	100%
SIV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2103-L2101A)	17	29-Jan-18 A	10-Mar-18	0%
SIV11763	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2004 - L2005, L2101 - L2101A)	21	20-Apr-18	15-May-18	0%
SIV11764	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Gully pipe (L1607-L1601)	21	12-Mar-18	09-Apr-18	0%
SIV11765	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Gully pipe (L2004)	7	17-May-18	25-May-18	0%
SIV11780	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Watermain	18	26-May-18	15-Jun-18	0%
SIV11800	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Utilities : TCSS crossroad duct	14	16-Jun-18	04-Jul-18	0%
SIV11830	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Road kerb & formation	24	05-Jul-18	01-Aug-18	0%
SIV11840	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Black top	11	02-Aug-18	14-Aug-18	0%
SIV11860	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - Drainage Works: future connection pipes	7	26-May-18	02-Jun-18	0%
SIV11880	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - watermain	7	04-Jun-18	11-Jun-18	0%
SIV11900	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - utilities: HEC & TCSS	39	12-Jun-18	28-Jul-18	0%
SIV11920	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - paving block	17	30-Jul-18	17-Aug-18	0%
Section 2 (L2301 - L2103)					
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe (L2301-L2013, L1608-L1609)	0	28-Dec-17 A	23-Jan-18 A	100%
SIV11960	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Watermain	0	24-Jan-18 A	03-Feb-18 A	100%
SIV12010	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Road kerb & formation	20	05-Feb-18 A	14-Mar-18	0%
SIV12020	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Black top	7	15-Mar-18	22-Mar-18	0%
SIV12040	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - Drainage Works: future connection pipes	7	07-Mar-18	14-Mar-18	0%
SIV12060	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - utilities: TCSS	25	15-Mar-18	17-Apr-18	0%
SIV12080	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - paving block	21	18-Apr-18	12-May-18	0%
Section 3 (M/H1.6 - L2301)					
SIV12092	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M/H1.7 - L2301)	38	28-Dec-17 A	09-Apr-18	35.59%
SIV12096	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: construct manholes	0	29-Nov-17 A	24-Jan-18 A	100%
SIV12102	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: demolish existing seawall	0	25-Jan-18 A	08-Feb-18 A	100%
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: ELS	10	09-Feb-18 A	02-Mar-18	0%
SIV12104	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: Construct manhole & pipes	30	03-Mar-18	11-Apr-18	0%
SIV12120	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-C1.1-C1.2): ELS,construct MH and	28	12-Apr-18	15-May-18	0%



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
SIV12121	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane	6	16-May-18	23-May-18	0%
SIV12122	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-C1.1-C1.2): Construct MH C1.2	5	24-May-18	29-May-18	0%
SIV12140	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Gully pipe (M/H 1.7 - L2301)	32	10-Apr-18	17-May-18	0%
SIV12150	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Road kerb	14	18-May-18	04-Jun-18	0%
SIV12155	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - formation	10	05-Jun-18	15-Jun-18	0%
SIV12160	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Black top	7	16-Jun-18	25-Jun-18	0%
SIV12170	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - Utilities: TCSS	21	10-May-18	04-Jun-18	0%
SIV12180	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U channel	10	05-Jun-18	15-Jun-18	0%
SIV12220	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - Paving block	25	16-Jun-18	17-Jul-18	0%
SIV12222	Achievement of Section IV of the Works	0		30-Aug-18	0%
Section VII - Remainder Works					
Road & Drainage Works (Culvert L - M/H1.7, Adjacent to SR3)					
SVII11600	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Drainage Works (Culvert L -MH1.7)	48	08-Jan-18 A	20-Apr-18	18.64%
SVII11620	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway : traffic diversion at Lung King Street	3	21-Apr-18	24-Apr-18	0%
SVII11640	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Gully pipe (Culvert L -MH1.7)	27	25-Apr-18	28-May-18	0%
SVII11650	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - TCSS duct	7	29-May-18	05-Jun-18	0%
SVII11654	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - road kerb & formation	14	06-Jun-18	22-Jun-18	0%
SVII11660	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Black top	6	23-Jun-18	29-Jun-18	0%
SVII11680	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U channel	14	29-May-18	13-Jun-18	0%
SVII11700	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - utilities: TCSS	14	14-Jun-18	30-Jun-18	0%
SVII11720	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - paving block	14	03-Jul-18	18-Jul-18	0%
Retaining Wall RW5 Construction					
SVII10660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab and wall	22	20-Mar-18	18-Apr-18	0%
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab and wall	22	19-Apr-18	15-May-18	0%
SVII10800	Sec VII - Retaining wall RW5 (bay 3) - construct base slab and wall	22	20-Mar-18	18-Apr-18	0%
SVII10820	Sec VII - Retaining wall RW5 (bay 4) - construct base slab and wall	22	19-Apr-18	15-May-18	0%
SVII10860	Sec VII - Retaining wall RW5 - curing, removal formwork	8	16-May-18	25-May-18	0%
Landing Steps Construction					
Landing Steps BSW13					
SVII10900	Sec VII - Landing steps (BSW13) - install vertical fender / step fender	15	15-May-18	01-Jun-18	0%
SVII10920	Sec VII - Landing steps (BSW13) - install s.s. handrail / tactile / sign board / bollard	25	02-Jun-18	03-Jul-18	0%
Landing Steps BSW4					
SVII10980	Sec VII - Landing steps (BSW4) - install vertical fender / step fender	15	20-Jun-18	07-Jul-18	0%
SVII11000	Sec VII - Landing steps (BSW4) - install s.s. handrail / tactile / sign board / bollard	25	09-Jul-18	06-Aug-18	0%
Landing Steps BSW5					
SVII11060	Sec VII - Landing steps (BSW5) - install vertical fender / step fender	15	25-Jul-18	10-Aug-18	0%
SVII11080	Sec VII - Landing steps (BSW5) - install s.s. handrail / tactile / sign board / bollard	25	11-Aug-18	08-Sep-18	0%
Landing Steps BSW9					
SVII11140	Sec VII - Landing steps (BSW9) - install vertical fender / step fender	15	13-Jun-18	30-Jun-18	0%
SVII11160	Sec VII - Landing steps (BSW9) - install s.s. handrail / tactile / sign board / bollard	25	03-Jul-18	31-Jul-18	0%



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
Promenade Seawall Parapet Construction & EVA					
SVII12000	Sec VII - Precast parapet	67	18-Nov-17 A	14-May-18	0%
SVII12010	Sec VII - Zone CRIII - seawall parapet: Backfilling	14	20-Feb-18	07-Mar-18	0%
SVII12120	Sec VII - Zone CRIII - seawall parapet: Construct mass concrete coping	30	08-Mar-18	16-Apr-18	0%
SVII12122	Sec VII - Zone CRIII - seawall parapet: reinforced concret coping	17	17-Apr-18	07-May-18	0%
SVII12140	Sec VII - Zone CRIII - seawall parapet: construct seawall parapet	30	08-May-18	12-Jun-18	0%
SVII12160	Sec VII - CRIII - EVA: watermain	14	13-Jun-18	29-Jun-18	0%
SVII12180	Sec VII - CRIII - EVA: U-channel	14	30-Jun-18	17-Jul-18	0%
SVII12200	Sec VII - CRIII - EVA: bituminous layer	5	18-Jul-18	23-Jul-18	0%
SVII12220	Sec VII - CRIII - EVA: paving block	30	24-Jul-18	27-Aug-18	0%
SVII13120	Sec VII - Zone A1, A2 & B - seawall parapet: Construct mass concrete coping	14	28-Dec-17 A	07-Mar-18	68.18%
SVII13122	Sec VII - Zone A1, A2 & B - seawall parapet: reinforced concrete coping	18	08-Mar-18	28-Mar-18	0%
SVII13140	Sec VII - Zone A1, A2 & B - seawall parapet: Construct seawall parapet	30	09-Apr-18	14-May-18	0%
SVII13160	Sec VII - Zone A1, A2 & B - EVA: watermain	14	15-May-18	31-May-18	0%
SVII13180	Sec VII - Zone A1, A2 & B - EVA: U-channel	14	01-Jun-18	16-Jun-18	0%
SVII13182	Sec VII - Zone A1, A2 & B - EVA: bituminous layer	5	19-Jun-18	23-Jun-18	0%
SVII13184	Sec VII - Zone A1, A2 & B - EVA: paving block	30	25-Jun-18	30-Jul-18	0%
SVII13200	Sec VII - Zone D - seawall parapet: Remove temporary seawall block	21	07-Mar-18	03-Apr-18	0%
SVII13220	Sec VII - Zone D - seawall parapet: Construct mass concrete	30	04-Apr-18	10-May-18	0%
SVII13222	Sec VII - Zone D - seawall parapet: reinforced concrete coping	18	11-May-18	01-Jun-18	0%
SVII13240	Sec VII - Zone D - seawall parapet: Construct seawall parapet	25	02-Jun-18	03-Jul-18	0%
SVII13260	Sec VII - Zone D - EVA : watermain	14	04-Jul-18	19-Jul-18	0%
SVII13280	Sec VII - Zone D - EVA : U-channnel	14	20-Jul-18	04-Aug-18	0%
SVII13300	Sec VII - Zone D - EVA : bituminous layer	5	06-Aug-18	10-Aug-18	0%
SVII13320	Sec VII - Zone D - EVA : paving block	30	11-Aug-18	14-Sep-18	0%
Promenade Footpath					
Section 1					
SVII10440	Sec VII - section 1 footpath - drainage works : connection pipe & U -channel	10	24-May-18	04-Jun-18	0%
SVII10445	Sec VII - section 1 footpath - watermain	7	05-Jun-18	12-Jun-18	0%
SVII10460	Sec VII - section 1 footpath - lighting	7	13-Jun-18	21-Jun-18	0%
SVII10500	Sec VII - section 1 footpath - paving block	21	22-Jun-18	17-Jul-18	0%
Section 2					
SVII12610	Sec VII - section 2 footpath - drainage works : L2202 - L2203A	20	20-Feb-18	14-Mar-18	0%
SVII12615	Sec VII - section 2 footpath - watermain	7	15-Mar-18	22-Mar-18	0%
SVII12630	Sec VII - section 2 footpath - utilities: TCSS	21	23-Mar-18	20-Apr-18	0%
SVII12670	Sec VII - section 2 footpath - paving block	30	21-Apr-18	28-May-18	0%
Section 3					
SVII12850	Sec VII - section 3 footpath - watermain	17	20-Feb-18	10-Mar-18	0%
SVII12870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW)	40	12-Mar-18	02-May-18	0%
SVII12875	Sec VII - 3 footpath - drainage works :U chanel	14	03-May-18	18-May-18	0%



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

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete
SVII12890	Sec VII - section 3 footpath - paving block	30	19-May-18	25-Jun-18	0%
Section 4					
SVII13049	Sec VII - section 4 footpath - watermain	1	14-Nov-17 A	20-Feb-18	95.24%
SVII13050	Sec VII - section 4 footpath - drainage works (L2203 -L2203A)	21	21-Feb-18	16-Mar-18	0%
SVII13055	Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC & PCCW	49	17-Mar-18	18-May-18	0%
SVII13110	Sec VII - section 4 footpath - paving block	25	19-May-18	19-Jun-18	0%
Section 5					
SVII13270	Sec VII - section 5 footpath - drainage works :L2203A -L2204	14	17-Mar-18	06-Apr-18	0%
SVII13275	Sec VII - section 5 footpath - watermain	14	07-Apr-18	23-Apr-18	0%
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC, PCCW	42	24-Apr-18	13-Jun-18	0%
SVII13330	Sec VII - section 5 footpath - paving block	22	14-Jun-18	11-Jul-18	0%
Section 6					
SVII13490	Sec VII - section 6 footpath - drainage works(Culvert L - L2204)	14	20-Feb-18	07-Mar-18	0%
SVII13510	Sec VII - section 6 footpath - watermain	13	08-Mar-18	22-Mar-18	0%
SVII13514	Sec VII - section 6 footpath - U channel	20	23-Mar-18	19-Apr-18	0%
SVII13530	Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC, PCCW	49	23-Mar-18	25-May-18	0%
SVII13550	Sec III A - section 6 footpath - paving block	25	26-May-18	25-Jun-18	0%
SVII19420	Achievement of Section VII of the Works	0		14-Sep-18	0%
Section VIII - Landscape Softworks					
Soft Landscaping Works					
SVIII10040	Sec VIII - Trees Planting	141	04-May-18	21-Sep-18	0%
SVIII10060	Sec VIII - Shrubs Planting	141	04-May-18	21-Sep-18	0%
SVIII10080	Achievement of Section VIII of the Works	0		21-Sep-18	0%
Section IX - Establishment Works					
Soft Landscaping Works					
SIX10020	Sec IX - Establishment Works	365	22-Sep-18	21-Sep-19	0%
SIX10040	Achievement of Section IX of the Works	0		21-Sep-19	0%
Section X - Protection & Preservation of Trees					
Summary of Section X - Protection & Preservation of Trees					
SX10000	Achievement of Section X of the Works	0		21-Sep-18	0%
Soft Landscaping Works					
SX10020	Sec X - Protection & Preservation of Trees	214	31-Jan-13 A	21-Sep-18	86.89%