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

QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

- FEB 2018 TO APR 2018 -

CLIENTS:

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DATE:

28 May 2018



Ref.: AACWBIECEM00_0_10446L.18

28 May 2018

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 Na

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)

Quarterly Environmental Monitoring and Audit Report (February to April 2018) for EP-376/2009

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report received by e-mail on 25 May 2018 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission.

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

Yours sincerely,

David Yeung

Independent Environmental Checker

C.C.

CEDD

Attn: Mr. L K Tsang

by fax: 2577 5040

LAM

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Attn: Mr. Francis Leong / Stephen Lai by fax: 2691 2649

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EXECUTIVE SUMMARY

This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – February 2018 to April 2018 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. 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 and audit findings and information during the period from 27th January 2018 to 26th April 2018. The cut-off date of reporting is at 26th of each reporting period

Construction Activities for the Reported Period

ii. During this reporting period, the principle work activities of the contract is included as follows:

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

Wan Chai West

Table 1 Principal Work Activities in the reporting period

February 2018	March 2018	April 2018
Drainage	Drainage	Drainage
Roadworks	Roadworks	Roadworks

Noise Monitoring

- iii. Noise monitoring was conducted at M1a 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. One limit exceedance was recorded on 2 February 2018 in February 2018 reporting month.

 After the investigation, the exceedance was concluded as non-project related.
- vii. No action or limit level exceedance was recorded in March and April 2018 reporting month.

Air Quality Monitoring

viii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at CMA5b and CMA6a – Contractor HK/2012/08 Site Office.

No action or limit level exceedance was recorded in February, March and April 2018 reporting month.

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

Complaints, Notifications of Summons and Successful Prosecutions

ix. There was no environmental complaint recorded in this reporting quarter.

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-458/2008).

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 27th January 2018 to 26th April 2018. The cut-off date of reporting is the 26th of each reporting period.

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 *Monitoring Requirements* – summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.

Section 4 *Monitoring Results* – summarizes the monitoring results obtained in the reporting period.

Section 5 Compliance Audit – summarizes the auditing of monitoring results, all exceedances environmental parameters.

Section 6 Complaints, Notification of summons and Prosecution – summarizes the cumulative statistics on complaints, notification of summons and prosecution

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 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	Schedule 2, Part I, A.1	
	primary/district distributor roads		

2.2.4. The designated project work II (DP2) was awarded to China State-Build King Joint Venture HK/2012/08 – 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 EP-376/2009 by 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	Principal Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3922 3388	3912 3010
China State- Build King	Contractor under Contract	Project Director	C. N. LAI	9106 5806	2877 1522
Joint Venture	no. HK/2012/08	Project Manager	Mr. Eddie Chung	9189 8118	
		Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James Ma	9130 9549	
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
(For Enquiry)					



2.4 Principal Work and Activities

2.4.1 During this reporting period, the principle work activities of the contract is included as follows:

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

Table 2.3 Principal Work Activities in the reporting period

February 2018	March 2018	April 2018
Drainage	Drainage	Drainage
Roadworks	Roadworks	Roadworks

2.4.2 Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 2.1*.



3. MONITORING REQUIREMENTS

3.1. Noise Monitoring

NOISE MONITORING STATION

3.1.1. The noise monitoring station for the Project is listed and shown in *Table 3.1* and *Figure 3.1*.
Appendix 3.1 shows the established Action/Limit Levels for the monitoring works.

Table 3.1 Noise Monitoring Station

District	Station	Description
Wan Chai	М1а	Footbridge for Ex-Harbour Road Sports Centre

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.3. 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

- 3.1.4. 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.
- 3.1.5. 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.

3.2. Air Quality Monitoring

AIR QUALITY MONITORING STATIONS

3.2.1. The air monitoring stations for the Project are listed and shown in *Table 3.2* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Table 3.2 Air Quality Monitoring Stations

Station ID	Monitoring Location	
CMA5b	Pedestrian Plaza	
CMA6a	WDII PRE Site Office	

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.2.2. 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.
- 3.2.3. 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.
- 3.2.4. 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

- 3.2.5. 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;

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

- 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.
- 3.2.6. 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

- 3.2.7. 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.
- 3.2.8. 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.
- 3.2.9. 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.
- 3.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.

4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of the designed project managed under the contract with FEP applied by contractor. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 3.1*. The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2. In the reporting period, the concurrent contract is:
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West.

4.1. Noise Monitoring Results

- 4.1.1 Noise monitoring for project works under EP-376/2009 was commenced on 19 May 2015.
- 4.1.2 The proposed division of noise monitoring station is summarized in *Table 4.1* below.

Table 4.1 Noise Monitoring Station for Contract no. HK/2012/08

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

4.1.3 One limit level exceedance was recorded on 2 February 2018 in February 2018 reporting month.

After the investigation, no construction work under EP-376/2009 was conducted by Contract HK/2012/08 around the concerned location during the time of measurement while excavation works and hammering were conducted under non-WDII-CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2012/08.

- 4.1.4 No action or limit level exceedance was recorded in March and April 2018 reporting month.
- 4.1.5 The noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of continuous noise monitoring results and graphical presentation can be referred to
 Appendix 4.1



4.2. Air Quality Monitoring Results

- 4.2.1 Air Quality monitoring for project works under EP-376/2009 was commenced on 16 May 2015.
- 4.2.2 The proposed division of air quality monitoring stations are summarized in *Table 4.2* below.

Table 4.2 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description	
CMA5b	Pedestrian Plaza	
CMA6a	WDII PRE Site Office	

- 4.2.3 No action or limit level exceedance was recorded at CMA5b Pedestrian Plaza and CMA6a WDII PRE Site Office in February, March and April 2018 reporting month.
- 4.2.4 The 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 4.2*.



4.3. Waste Monitoring Results

4.3.1 No Inert and Non-inert C&D wastes disposed in this reporting period. Details of the waste flow table are summarized in *Table 4.3*.

Table 4.3 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this quarter	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

5. COMPLIANCE AUDIT

5.0.1. The Event Action Plan for construction noise and air quality are presented in *Appendix 5.1*.

5.1. Noise Monitoring

- 5.1.1 One limit exceedance was recorded on 2 February 2018 in February 2018 reporting month.

 After the investigation, the exceedance was concluded as non-project related.
- 5.1.2 No action or limit level exceedance was recorded in March and April 2018 reporting month.

5.2. Air Quality Monitoring

5.2.1 No action or limit level exceedance was recorded at CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office in February, March and April 2018 reporting month.

5.3. Site Audit

- 5.3.1 There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.
- 5.4. Review of the Reasons for and the Implications of Non-compliance
- 5.4.1 There was no non-compliance from the site audits in the reporting period.
- 5.5. Summary of action taken in the event of and follow-up on non-compliance
- 5.5.1 There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint received in this reporting quarter.
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in *Appendix* 6.1.
- 6.0.3. No notification of summons or prosecution was received in the reporting period. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.

Table 6.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (May 2015) to last reporting quarter	0
February 2018 to April 2018	0
Project-to-Date	0

Table 6.2 Cumulative Statistics on Successful Prosecutions

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



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 period.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include roadworks, back-filling, drainage and trimming of rock level were performed in April 2018 reporting period. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction and removal of preparation of temporary reclamation at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; reinstatement works along Causeway Bay Typhoon Shelter, road works and landscape works at Victoria Park; bridge construction, approach ramp construction and building construction at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.5. No significant air quality impact from construction activities was anticipated in the reporting period. Besides, no project related exceedance was recorded during air quality and noise environmental monitoring events in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

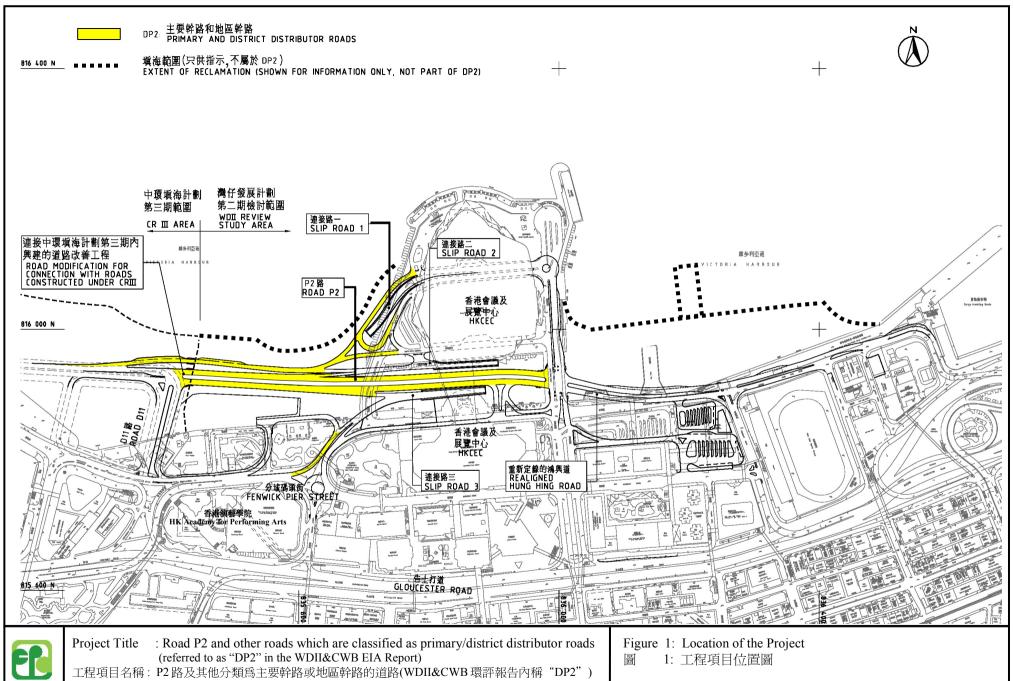


8. CONCLUSION

- 8.0.1. 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.
- 8.0.2. No non-compliance and no prosecutions were received during the reporting period.
- 8.0.3. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor in this reporting period. Environmental site audit was conducted by the Environmental Team and the Independent Environmental Checker and no cumulative environmental impact was identified in the reporting period. Hence, the EM&A programme was considered effective and shall be maintained.
- 8.0.4. The construction programmes of individual contracts are provided in *Appendix 8.1*.

Figure 2.1

Project Layout



Environmental Permit No.: EP-376/2009 環境許可證編號 : EP-376/2009 (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

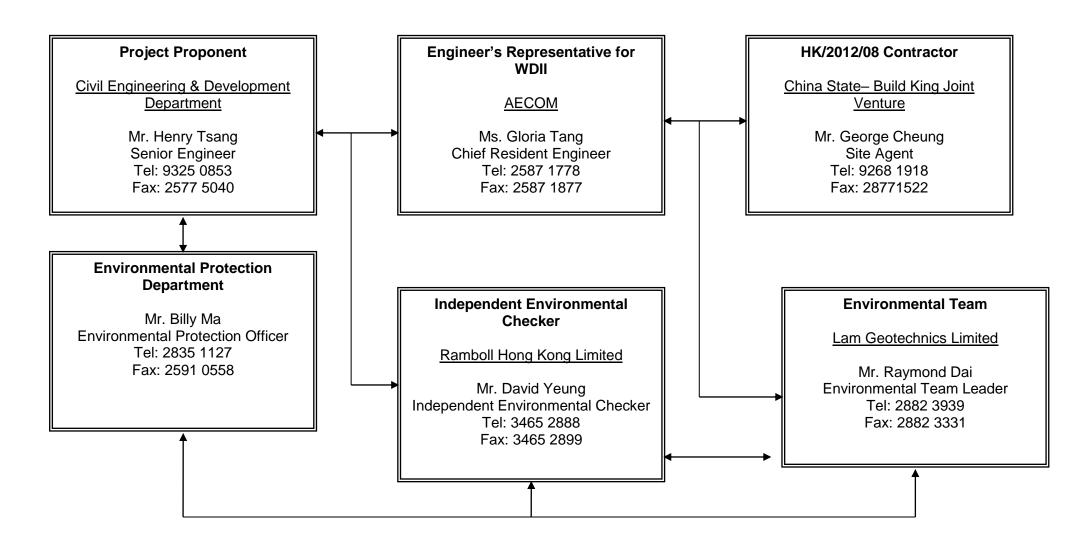
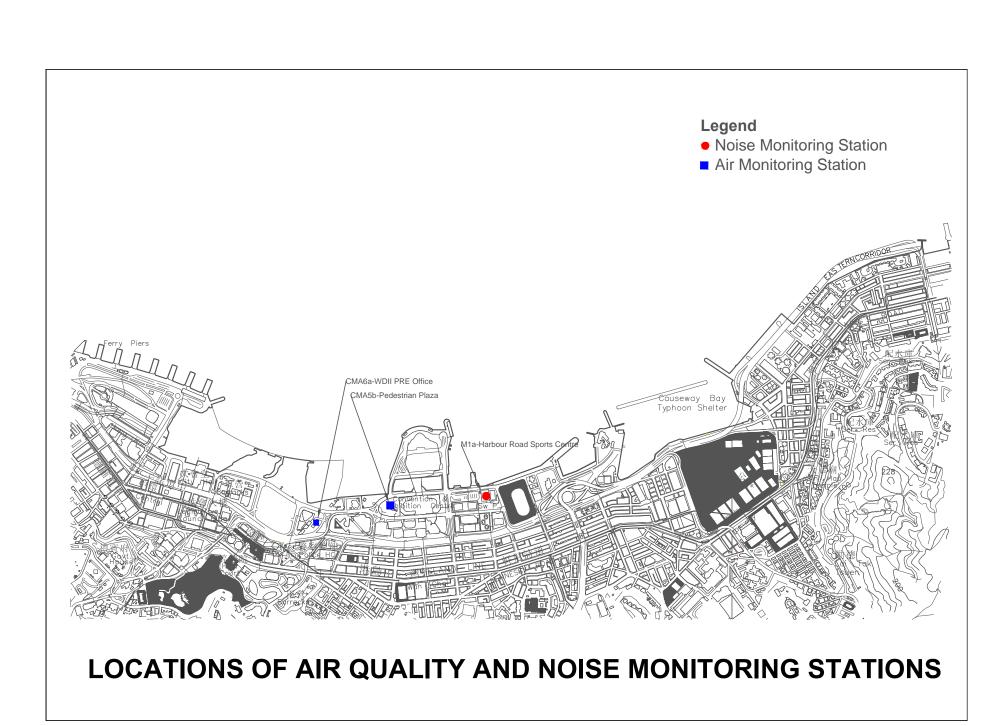
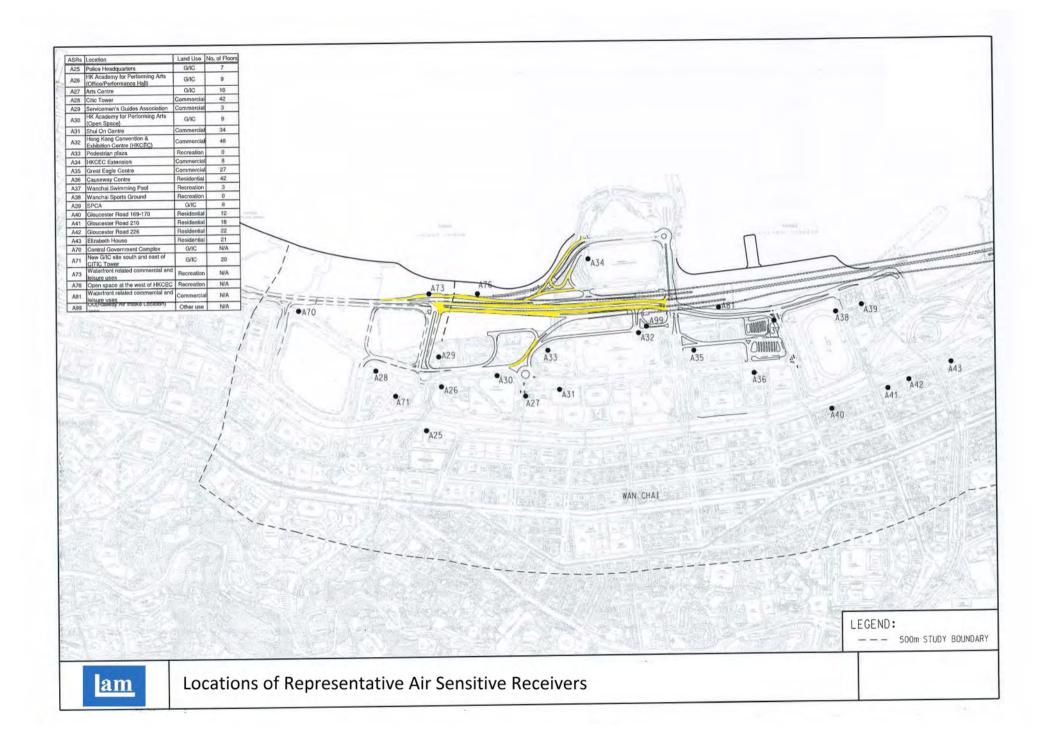
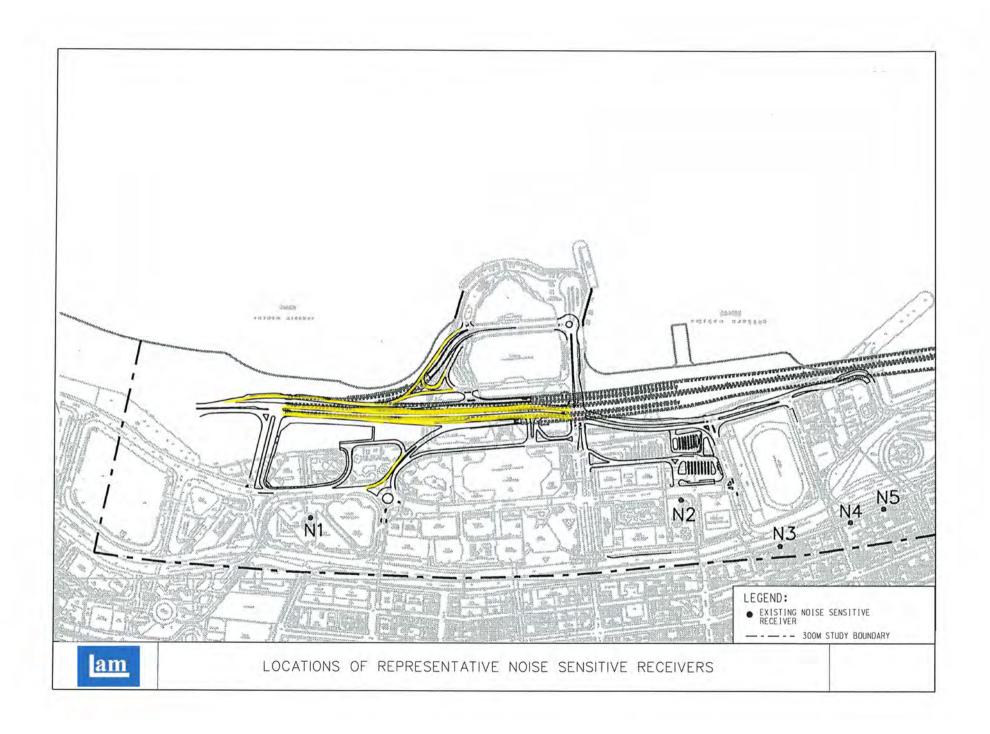


Figure 3.1

Locations of Environmental Monitoring Stations and Sensitive Recievers







Appendix 2.1

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 /	Location / Timing	Implementation	Implementation Status	Relevant Legislation
	Mitigation Measures		Agent		and Guidelines
Construction	n Phase				
For the Who	le Project				
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor	Implemented during Construction Stage	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	Work site / during construction	Contractor	Implemented during Construction Stage	

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Status	Relevant Legislation
	Mitigation Measures		Agent		and Guidelines
Construction	on Phase				
For the Wh	0				
S4.9.4	Good Site Practice:	Work site / during	Contractor	Implemented during	EIAO-TM, NCO
	 Only well-maintained plant shall be 	construction		Construction Stage	
	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.				
	WDII Major Roads (Road P2)	1	1	T	T
S4.8.3 –	Use of quiet powered mechanical equipment,	Work site / during	Contractor	Implemented during	EIAO-TM, NCO
S4.8.4	movable noise	construction		Construction Stage	
	barrier and temporary noise barrier for the				
	following tasks:				
	 Temporary road diversion 				
	 Resurfacing 				
	 At-grade roadwork 				

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Status	Relevant Legislation and Guidelines
Construction		I.	8		
For the Who					
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 preformed 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	Implemented during Construction Stage	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	Implemented during Construction Stage	ProPECC PN 1/94; WPCO (TM-DSS)

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Status	Relevant Legislation and Guidelines
Constructio			Agent		and Guidennes
For the Who					
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	Implemented during Construction Stage	
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 recyclable portions such as metals. 	Work site / During planning and design stage, and construction stage	Contractor	Implemented during Construction Stage	

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	 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	Implemented during Construction Stage	Public Health and Municipal Services Ordinance (Cap. 132)

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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	To be implemented at the corresponding stage of construction	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.	Work site / During the construction period	Contractor and Independent Environmental Checker	To be implemented at the corresponding stage of construction	DEVB TCW No.6/2010; ETWB TCW No. 33/2002; ETWB TCW No. 19/2005
	An Independent Environment Checker shall be responsible for auditing the results of the system.				
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	To be implemented at the corresponding stage of construction	ProPECC PN 1/94

EP-376/2009 EM&A Manual 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.

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Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Status	Relevant Legislation
	Mitigation Measures		Agent		and Guidelines
Construction	n Phase				
For the Who	le Project				
Table 10.5	CM1 Topsoil, where identified, shall be stripped	Work site / During	Contractor	Implemented during	EIAO TM
	and stored for re-use in the construction of the	Construction Phase		Construction Stage	
	soft landscape works, where practical.				
Table 10.5	CM2 Existing trees to be retained on site shall be	Work site / During	Contractor	Implemented during	EIAO TM
	carefully protected during construction.	Construction Phase		Construction Stage	
Table 10.5	CM3 Trees unavoidably affected by the works	Work site / During	Contractor	Implemented during	EIAO TM
	shall be transplanted where practical.	Construction Phase		Construction Stage	
Table 10.5	CM4 Compensatory tree planting shall be	Work site / During	Contractor	Implemented during	EIAO TM
	provided to compensate for felled trees.	Construction Phase		Construction Stage	
Table 10.5	CM5 Control of night-time lighting.	Work site / During	Contractor	Implemented during	EIAO TM
		Construction Phase		Construction Stage	
Table 10.5	CM6 Erection of decorative screen hoarding	Work site / During	Contractor	Implemented during	EIAO TM
	compatible with the surrounding setting.	Construction Phase		Construction Stage	
For DP2 – W	DII Major Roads (Road P2)				
Table 10.5	CM1 Topsoil, where identified, shall be stripped	Work site / During	Contractor	Implemented during	EIAO TM
	and stored for re-use in the construction of the	Construction Phase		Construction Stage	
	soft landscape works, where practical.			_	
Table 10.5	CM2 Existing trees to be retained on site shall be	Work site / During	Contractor	Implemented during	EIAO TM
	carefully protected during construction.	Construction Phase		Construction Stage	
Table 10.5	CM3 Trees unavoidably affected by the works	Work site / During	Contractor	Implemented during	EIAO TM
	shall be transplanted where practical.	Construction Phase		Construction Stage	
Table 10.5	CM4 Compensatory tree planting shall be	Work site / During	Contractor	Implemented during	EIAO TM
	provided to compensate for felled trees.	Construction Phase		Construction Stage	
Table 10.5	CM5 Control of night-time lighting.	Work site / During	Contractor	Implemented during	EIAO TM
		Construction Phase		Construction Stage	
Table 10.5	CM6 Erection of decorative screen hoarding	Work site / During	Contractor	Implemented during	EIAO TM
	compatible with the surrounding setting.	Construction Phase		Construction Stage	
				, and the second	

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Operation Pl	nase				
For DP2 – W	DII Major Roads (Road P2)				
Table 10.6,	OM1 Aesthetic design of buildings and road-	Work site / During	CEDD/HyD	To be implemented	ETWB TCW 2/2004
Figure	related structures,	Design Stage and		during Operation Stage	
10.5.1-	including viaducts, vent buildings, subways,	Operation Phases			
10.5.5	footbridges				
	and noise barriers and enclosure.				
Table 10.6,	OM3 Buffer Tree and Shrub Planting to screen	Work site / During	CEDD/HyD	To be implemented	ETWB TCW 2/2004
Figure	proposed roads	Design Stage and		during Operation Stage	
10.5.1-	and associated structures.	Operation Phases			
10.5.5					
Table 10.6,	OM5 Aesthetic streetscape design.	Work site / During	CEDD/HyD	To be implemented	ETWB TCW 2/2004
Figure		Design Stage and		during Operation Stage	
10.5.1-		Operation Phases			
10.5.5					
Table 10.6,	OM6 Aesthetic design of roadside amenity areas	Work site / During	CEDD/HyD	To be implemented	ETWB TCW 2/2004
Figure		Design Stage and		during Operation Stage	
10.5.1-		Operation Phases			
10.5.5					

Appendix 3.1

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)

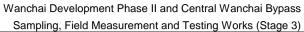
Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *The Limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school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

Action and Limit Level for Air Monitoring

Monitoring Locations	1-hour TSP Le	vel 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 4.1

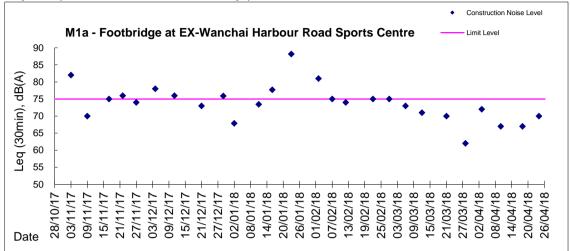
Noise Monitoring Graphical Presentations





Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



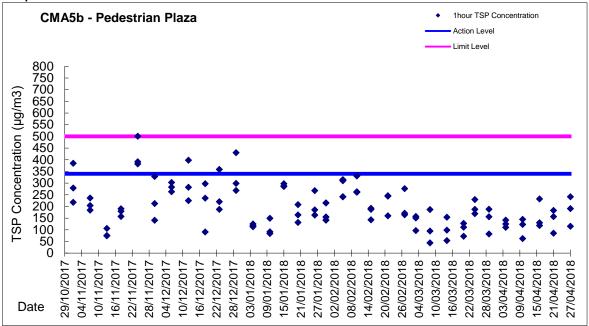
Appendix 4.2

Air Quality Monitoring Graphical Presentations

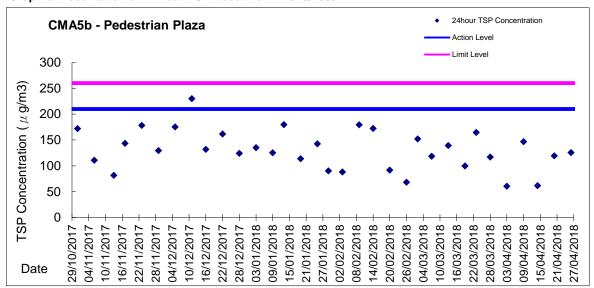


Sampling, Field Measurement and Testing Work (Stage 3)



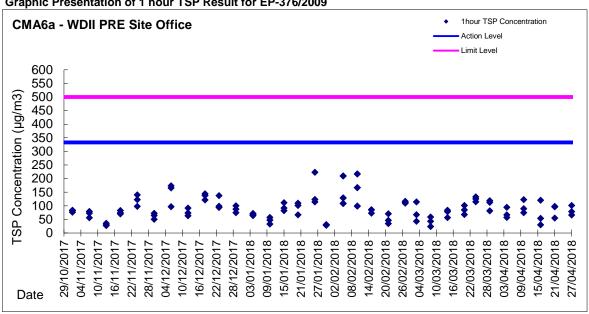


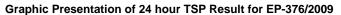
Graphic Presentation of 24 hour TSP Result for EP-376/2009

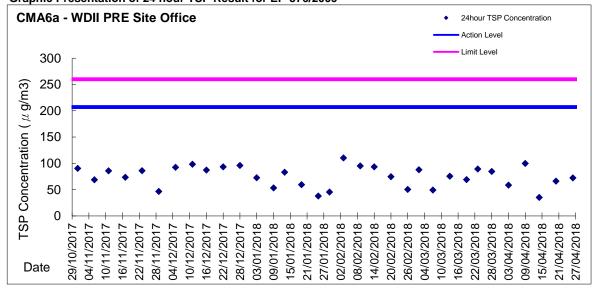




Graphic Presentation of 1 hour TSP Result for EP-376/2009







Appendix 5.1

Event Action Plans

Event/Action Plan for Construction Noise

EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; 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)	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)



EVENT		AC	CTION	
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; 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; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	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;	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; 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 Dian for Construction Air Quality

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

Appendix 6.1

Complaint Log

Environmental Complaints Log

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

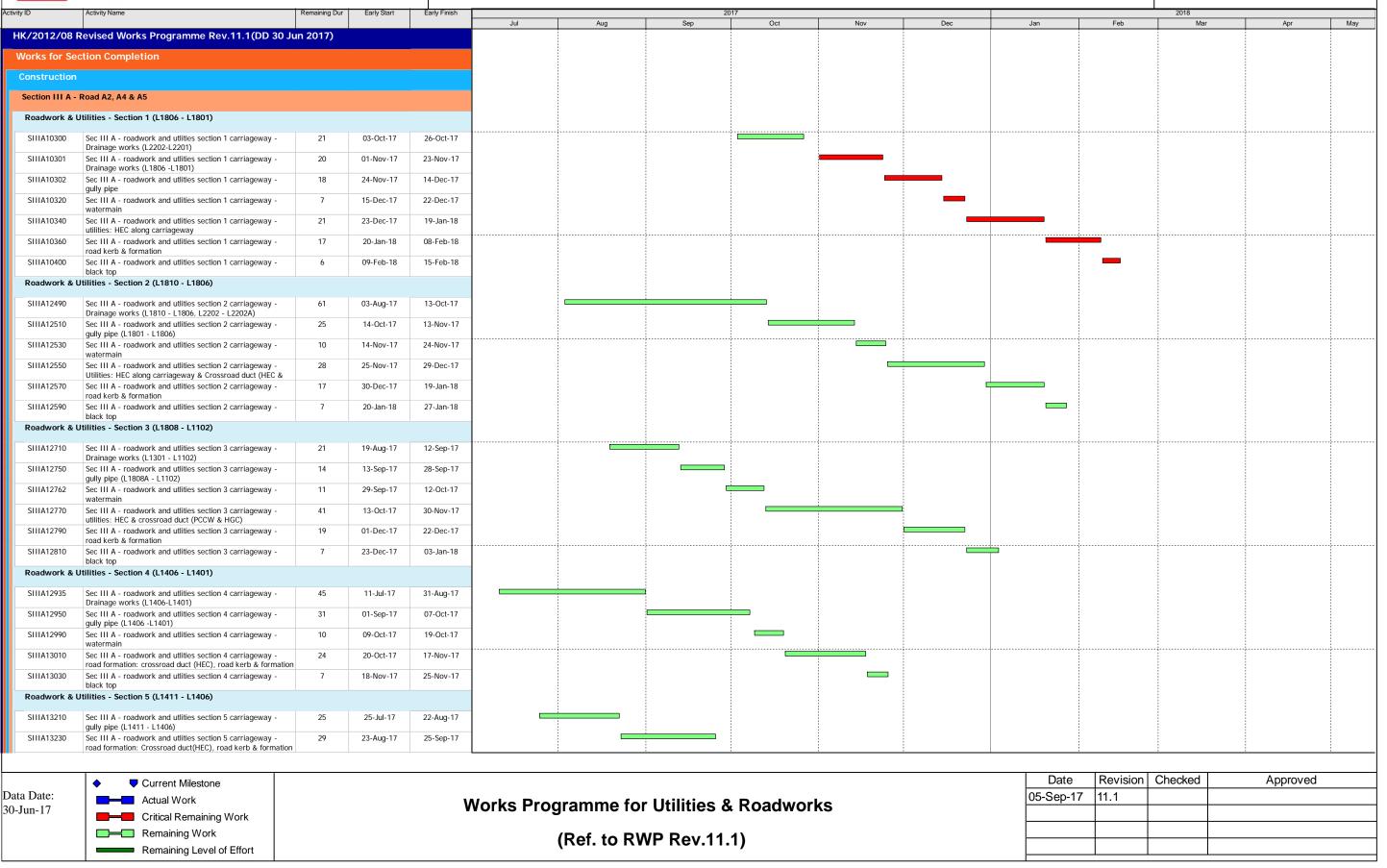
Appendix 8.1

Construction Programme of Individual Contracts



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

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

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	OHNAOTATE EE		IVENTORL					Топат Буразэ							
tivity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Jul	Aug	Sep 20	017 Oct	Nov	Dec	Jan	Feb	2018 Mar	Apr	May
SIIIA13250	Sec III A - roadwork and utlities section 5 carriageway - black top	7	26-Sep-17	04-Oct-17											
Roadwork &	Utilities - Section 6 (L1102 - L1411)														
SIIIA13372	Sec III A - roadwork and utilities section 6 carriageway - Backfilling of water channel adjacent culvert K bay 16	14	18-Aug-17	02-Sep-17			-								
SIIIA13373	Sec III A - roadwork and utilities section 6 carriageway - Backfilling of water channel from culvert K bay 16 to 20B	20	24-Aug-17	15-Sep-17		_									
SIIIA13380	Sec III A - roadwork and utilities section 6 carriageway - Removal of temporary water channel	9	16-Sep-17	26-Sep-17											
SIIIA13385	Sec III A - roadwork and utilities section 6 carriageway -	6	27-Sep-17	04-Oct-17			_	-							
SIIIA13389	Waterproofing for tunnel roof slab Sec III A - roadwork and utilities section 6 carriageway -	5	05-Oct-17	10-Oct-17				_							
SIIIA13395	Backfilling above tunnel roof slab Sec III A - roadwork and utilities section 6 carriageway -	9	11-Oct-17	20-Oct-17											
SIIIA13399	Drainage works (L1101-L1102) Sec III A - roadwork and utilities section 6 carriageway -	8	21-Oct-17	31-Oct-17											
SIIIA13430	gully pipe (L1101 -L1102) Sec III A - roadwork and utilities section 6 carriageway -	30	03-Aug-17	06-Sep-17			<u>:</u>								
SIIIA13444	gully pipe (Culvert L - L1411) Sec III A - roadwork and utilities section 6 carriageway -	7	07-Sep-17	14-Sep-17				†			-				
SIIIA13445	watermain Sec III A - roadwork and utilities section 6 carriageway -	14	15-Sep-17	30-Sep-17				0							
SIIIA13450	utilities: HEC , HGC, PCCW Sec III A - roadwork and utilities section 6 carriageway -	18	01-Nov-17	21-Nov-17				_							
SIIIA13470	road kerb & formation Sec III A - roadwork and utilities section 6 carriageway -	7	22-Nov-17	29-Nov-17											
Section V - Roa	black top														
Roadwork &	Utilities														
Section 1 (L1	504 - L1900)														
SV12450	Sec V - Roadwork & Utilities Section 1 Carriageway - Gully	64	27-Jul-17	10-Oct-17											
SV12460	pipe (L1903 - L1906, L1501-L1504) Sec V - Roadwork & Utilities Section 1 Carriageway - Utilities	s 21	11-Oct-17	04-Nov-17]						
SV12490	(TCSS crossroad duct) Sec V - Roadwork & Utilities Section 1 Carriageway - Road		06-Nov-17	02-Dec-17											
SV12520	kerb & formation Sec V - Roadwork & Utilities Section 1 Carriageway - Black	20	04-Dec-17	28-Dec-17								ļ			
SV12540	top Sec V - Roadwork & Utilities Section 1 footpath - Watermain		06-Nov-17	21-Nov-17											
SV12570	Sec V - Roadwork & Utilities Section 1 footpath -	30	22-Nov-17	28-Dec-17											
SV12570	utilities: TCSS Sec V - Roadwork & Utilities Section 1 footpath - paving	30	29-Dec-17	02-Feb-18											
	block	30	29-Dec-17	02-Feb-16											
		-	40.4.47	05.4 47											
SV12602	Sec V - Roadwork & Utilities Section 2 Carriageway : Backfilling	7	18-Aug-17	25-Aug-17											
SV12603	Sec V - Roadwork & Utilities Section 2 Carriageway - Gully pipe (L1501 - L1507 & L1611 - L1609)	30	26-Aug-17	29-Sep-17		_									
SV12604	Sec V - Roadwork & Utilities Section 2 Carriageway : formation for access diversion	6	30-Sep-17	07-Oct-17			'	_							
SV12606	Sec V - Roadwork & Utilities Section 2 Carriageway: Divert access cross Zone B		09-Oct-17												
SV12610	Sec V - Roadwork & Utilities Section 2 Carriageway - Drainage Works L1507-L1504)	31	09-Oct-17	14-Nov-17											
SV12630	Sec V - Roadwork & Utilities Section 2 Carriageway - Drainage Works L1406A - L1406B	21	15-Nov-17	08-Dec-17											
SV12665	Sec V - Roadwork & Utilities Section 2 Carriageway - Gully pipe (L1507-L1504, L1406A)	25	09-Dec-17	10-Jan-18											
SV12666	Sec V - Roadwork & Utilities Section 2 Carriageway - Utilities: HEC crossroad duct	11	11-Jan-18	23-Jan-18											
SV12670	Sec V - Roadwork & Utilities Section 2 Carriageway - Road kerb & formation	21	24-Jan-18	20-Feb-18							_				
SV12680	Sec V - Roadwork & Utilities Section 2 Carriageway - Black top	20	21-Feb-18	15-Mar-18											
SV12690	Sec V - Roadwork & Utilities Section 2 footpath - Drainage Works (L2104 - L2105)	25	09-Dec-17	10-Jan-18											
SV12695	Sec V - Roadwork & Utilities Section 2 footpath - Watermain	18	11-Jan-18	31-Jan-18											
SV12700	Sec V - Roadwork & Utilities Section 2 footpath - utilities: TCSS	16	01-Feb-18	22-Feb-18											
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	23-Feb-18	15-Mar-18								_			
Cartina 2 (O	ulvert L - L1510)		,										1		



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

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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish			_	017					2018		
SIV12765	Sec V - Roadwork & Utilities Section 3 Carriageway -	25	16-Aug-17*	13-Sep-17	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
SIV12766	Demolish D wall Sec V - Roadwork & Utilities Section 3 Carriageway -	14	28-Sep-17	14-Oct-17											
SIV12810	Drainage Works (Culvert L - L1611) Sec V - Roadwork & Utilities Section 3 Carriageway - Gully	30	16-Oct-17	20-Nov-17											
SIV12815	pipe (Culvert L - L1611) Sec V - Roadwork & Utilities Section 3 Carriageway - Road	24	21-Nov-17	18-Dec-17											
SIV12820	kerb & formation Sec V - Roadwork & Utilities Section 3 Carriageway - Black	20	19-Dec-17	13-Jan-18											
SIV12840	Sec V - Roadwork & Utilities footpath - Drainage works	25	16-Oct-17	14-Nov-17											
SIV12844	(Culvert L - L2105) Sec V - Roadwork & Utilities Section 3 footpath - U channel	21	15-Nov-17	08-Dec-17						:					
SIV12850	Sec V - Roadwork & Utilities footpath - Watermain	21	15-Nov-17	08-Dec-17											
SIV12855	Sec V - Utilities: HEC (80m at site access) to MVB Plant Room - 1st stage excavation	10	15-Jul-17*	26-Jul-17											
SIV12857	Sec V - Utilities: HEC (80m at site access) to MVB Plant Room - 2nd stag excavation	10	08-Aug-17	18-Aug-17											
SIV12859	Sec V - Utilities: HEC (80m at site access) to MVB Plant Room - cabling	12	25-Aug-17	07-Sep-17											
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGC, PCCW)	39	09-Dec-17	26-Jan-18											
SIV12880	Sec V - Roadwork & Utilities Section 3 footpath - Paving block	22	27-Jan-18	24-Feb-18											
Section 4 (K1	106 - Culvert L)														
SIV12282	Sec V - Roadwork & Utilities Section 4 Carriageway - Drainage Works (K1311 - Culvert K, L1201, L1301)	31	16-Sep-17	23-Oct-17											
SIV12300	Sec V - Roadwork & Utilities Section 4 Carriageway - Gully pipe (K1106-Culvert K, K1201-Culvert K, L1201, L1301)	35	24-Oct-17	04-Dec-17											
SIV12305	Sec V - Roadwork & Utilities Section 4 Carriageway - Utilities : crossroad duct	14	05-Dec-17	20-Dec-17											
SIV12310	Sec V - Roadwork & Utilities Section 4 Carriageway - Road kerb & formation	24	02-Jan-18	29-Jan-18											
SIV12320	Sec V - Roadwork & Utilities Section 4 Carriageway - Black top	20	30-Jan-18	24-Feb-18											
SIV12360	Sec V - Roadwork & Utilities Section 4 Carriageway - watermain	15	21-Dec-17	10-Jan-18											
SIV12380	Sec V - Utilities: HEC (50m at water channel) to MVB plant room - Excavation	10	22-Aug-17	01-Sep-17											
SIV12400	Sec V - Utilities: HEC (50m at water channel) to MVB plant room - Cabling	9	08-Sep-17	18-Sep-17											
SIV12420	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : TCSS	21	11-Jan-18	03-Feb-18											
SIV12440	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW	8	21-Dec-17	02-Jan-18											
SIV12460	Sec V - Roadwork & Utilities Section 4 footpath - Paving block	22	05-Feb-18	05-Mar-18											
Section IV - S															
Roadwork &	Utilities														
Section 1 (L1	6608 - L1601)														
SIV11750	Sec IV - Roadworks & Utilites at SR3 Section 1 Carriageway - Sewerage works	14	16-Sep-17	03-Oct-17				—							
SIV11760	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1607-L1601, L2004-L2005)	39	16-Sep-17	02-Nov-17											
SIV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2103-L2101)	21	03-Nov-17	27-Nov-17											
SIV11764	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Gully pipe (L1607-L1601, L2004-L2005)	25	28-Nov-17	28-Dec-17					-	_					
SIV11780	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Watermain	18	29-Dec-17	19-Jan-18											
SIV11800	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Utilities : TCSS crossroad duct	14	20-Jan-18	05-Feb-18											
SIV11830	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Road kerb & formation	24	06-Feb-18	08-Mar-18			ļ								
SIV11840	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Black top	7	09-Mar-18	21-Mar-18						_					
SIV11860	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - Drainage Works: future connection pipes Soc IV - Roadwork & Utilities at SR3 Section 1 footpath	7	29-Dec-17	06-Jan-18						_					
SIV11880 SIV11900	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - watermain Sec IV - Roadwork & Utilities at SR3 Section 1 footpath -	39	08-Jan-18	15-Jan-18 05-Mar-18											
SIV11900 SIV11920	utilities: HEC & TCSS Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - utilities: HEC & TCSS Sec IV - Roadwork & Utilities at SR3 Section 1 footpath -	17	16-Jan-18 06-Mar-18	05-Mar-18 24-Mar-18											
31711920	paving block	17	UU-IVIdI - 18	24-IVIAI - 18											



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Section Sect		OHINA STATE ELABERTOSINT VENT																
Proceedings	Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Jul	Aug			Nov	Dec	Jan	Feb		Apr	May		
Charles Tax - All Fore Control Contr	Section 2 (L2301 - L2103)														'			
Procedure of Control	SIV11940		- 21	23-Sep-17	18-Oct-17													
Control Cont	SIV11941		- 30	19-Oct-17	23-Nov-17													
Content	SIV11942		- 22	24-Nov-17	19-Dec-17													
Second Column	SIV11960	Watermain	- 10	20-Dec-17	03-Jan-18										-			
1985 1985		excavation	10	27-Jul-17														
		cabling		ŭ .														
Section 5 - Security	SIV11980	Utilities: TCSS crossroad duct)		04-Jan-18	19-Jan-18													
Section Sect	SIV12010	Road kerb & formation		20-Dec-17	19-Jan-18													
Contract Action of Contract Contractions 2		Black top	- 7		27-Jan-18													
Company Comp	SIV12040		7	04-Jan-18	11-Jan-18													
Part Section 2 (1979) Section 3 (1979) Sect	SIV12060	utilities: TCSS	25	12-Jan-18														
Section Control Cont	SIV12080	·	21	10-Feb-18	09-Mar-18													
Distance Distance	Section 3 (M	I/H1.6 - L2301)																
17 Table Security Contents 18 18 18 18 18 18 18 1		Drainage Works (M/H1.7 - L2301)		19-Oct-17														
M1 74 And East	SIV12102	M1.7-M1.6: Demolish seawall		·	17-Oct-17													
M. 1. Mile According another Applies 12 12 12 12 12 12 12 1	SIV12103	M1.7-M1.6: ELS		18-Oct-17	30-Oct-17													
M. 1.2016	SIV12104	M1.7-M1.6: Construct manhole & pipes		31-Oct-17	11-Dec-17													
Challenge Works, Olf Col. 1-Cl. 20, Construction of the State Continuous of		M1.7-M1.6: backfilling & divert EVA			27-Dec-17													
Drainage Works (201 & C.1		Drainage Works (M1.6-C1.1-C1.2): Construct MH and pipes																
Decamping Works Off 1-6-C1-1-C1-2 Centerout Mile C1 2		Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane																
SVIT248 Size IV - Remarked & Utilities at SIGS Section 3 Corringnessy		Drainage Works (M1.6-C1.1-C1.2): Construct MH C1.2												1				
Siv172160 Sic IV - Randon's A Utilities at Sk3 Section 3 Carriagovary 14		-Utilities: HEC to MVB Plant room - cabling			·													
Road kerb Ser IV - Roadwork & Utilities at SKS Section 3 Carriagnosary 10 01-Mar-18 12-Mar-18 SVI/2100 Ser IV - Roadwork & Utilities at SKS Section 3 Corriagnosary 10 13-Mar-18 23-Mar-18 SVI/2100 Ser IV - Roadwork & Utilities at SKS Section 3 Corporation 21 02-Sep 17 25-Sep 1		Gully pipe (M/H 1.7 - L2301)																
Siv12160 Sec IV - Roadwork & Utilities at SR3 Section 3 Contragroway		Road kerb																
Silvate Rip	SIV12155		- 10	01-Mar-18	12-Mar-18													
SVIV12TO Scr V - Roadwork & Utilities at SR3 Section 3 footpath - Utilities: TCSS		Black top																
Utilities: TCSS Set IV - Roadwork & Utilities at SR3 Section 3 footpath - U 14 24-Oct-17 O9-Nov-17		-Utilities: HEC to MVB Plant room - cabling		·	·			_										
SV12220 Soc IV - Roadwork & Utilities at SR3 Section 3 footpath 45 10-Nov-17 04-Jan-18		Utilities: TCSS		·				_										
Paving block Section VII - Remainder Works Section V - Roadwork & Utilities at SR3 Section 4 Carriageway - 40 12-Dec-17 30-Jan-18 Drainage Works (Culvert L - MH1.7) SVII11640 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - 27 31-Jan-18 O6-Mar-18 Gully pipe (Culvert L - MH1.7) SVII11650 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - 21 O7-Mar-18 30-Mar-18 TCSS duct, road kerb & formation SVII11660 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - 6 31-Mar-18 O7-Apr-18 Black top Sec IV - Roadwork & Utilities at SR3 Section 4 Corpath - U 14 O7-Mar-18 22-Mar-18 Channel SVII11700 Sec IV - Roadwork & Utilities at SR3 Section 4 Corpath - U 14 O7-Mar-18 Utilities at SR3 Section 4 Corpath - U 15 O7-Apr-18 Utilities at SR3 Section 4 Corpath - U 15 O7-Apr-18 Utilities at SR3 Section 4 Corpath - U 15 O7-Apr-18 Utilities at SR3 Section 4 Corpath - U 16 O7-Mar-18 O7-Apr-18 Utilities at SR3 Section 4 Corpath - U 17 O7-Mar-18 O7-Apr-18 Utilities at SR3 Section 4 Corpath - U Utilities at SR3 Section 4 Corpath - Utilities		channel										<u></u>						
SVII11600 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Drainage Works (Culvert L - MH1.7) 30-Jan-18 50-Mar-18 50		Paving block	45	10-Nov-17	04-Jan-18													
SVII11600 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - 40 12-Dec-17 30-Jan-18																		
Drainage Works (Culvert L -MH1.7)																		
SVII11650 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - 21 O7-Mar-18 30-Mar-18		Drainage Works (Culvert L -MH1.7)																
TCSS duct , road kerb & formation SVII11600 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - 6 31-Mar-18 07-Apr-18 SVII11680 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U 14 07-Mar-18 22-Mar-18 channel SVII1700 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 23-Mar-18 07-Apr-18 Utilities SVII11720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVIII720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVIII720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVIII720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVIII720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 12 OF-Apr-18 OF-Apr-		Gully pipe (Culvert L -MH1.7)																
Black top SVII11680 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U 14 07-Mar-18 22-Mar-18 Channel SVII11700 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 23-Mar-18 07-Apr-18 Utilities SVII11720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVII11720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 12 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 12 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 12 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 12 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 12 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 13 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 14 O7-Apr-18 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 14 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 15 O7-Apr-18 SVIII1720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath		TCSS duct , road kerb & formation																
Channel		Black top			·													
utilities SVII11720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - 11 09-Apr-18 24-Apr-18		channel																
		utilities						1										
paving block	SVII11720	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - paving block	11	09-Apr-18	24-Apr-18			 - - - -										



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tivity ID	Activity Name	Remaining Dur	Early Start	Early Finish			2	017					2018		
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Promenade S	Seawall Parapet Construction														
Promenade F	ootpath and EVA Construction														
SVII12610	Sec VII - section 2 footpath - drainage works (L2203 -	49	14-Nov-17	12-Jan-18						:					
	L2202A) & U-channel														
SVII12615	Sec VII - section 2 footpath - utilities (TCSS)	25	13-Jan-18	10-Feb-18											
SVII12630	Sec VII - section 2 footpath - watermain	17	12-Feb-18	06-Mar-18											
SVII12670	Sec VII - section 2 footpath - paving block	29	08-Mar-18	11-Apr-18											
	See VII Section 2 lootpath paving block	2,	oo war 10	1176110											
SVII12850	Sec VII - section 3 footpath - watermain	18	13-Oct-17	03-Nov-17					-						
0,4140070	0 111 11 0 0 1 11 11111 (1150 7000 1100		04.11 47	07.5.47											
SVII12870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW)	44	04-Nov-17	27-Dec-17											
SVII12875	Sec VII - 3 footpath - drainage works :U chanel	14	28-Dec-17	13-Jan-18						_					
SVII12890	Sec VII - section 3 footpath - paving block	30	15-Jan-18	21-Feb-18											
SVII13050	Sec VII - section 4 footpath - drainage works (L2203	21	20-Oct-17	14-Nov-17											
CVII.120E2	-L2203A)	21	15 Nov. 17	00 Dec 17						<u>:</u>					
SVII13052	Sec VII - section 4 footpath - watermain	21	15-Nov-17	08-Dec-17											
SVII13054	Sec VII - section 4 footpath - U channel	14	09-Dec-17	27-Dec-17											
SVII13055	Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC &	56	09-Dec-17	15-Feb-18											
	PCCW														
SVII13110	Sec VII - section 4 footpath - paving block	20	20-Feb-18	14-Mar-18											
Section 5															
SVII13270	Sec VII - section 5 footpath - drainage works (L2203 -L2204)	49	29-Aug-17	25-Oct-17											
341113270	& U channel	47	27-Aug-17	23-001-17											
SVII13275	Sec VII - section 5 footpath - watermain	21	26-Oct-17	20-Nov-17											
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC,	59	21-Nov-17	31-Jan-18						:					
0)///40000	PCCW		01.5.1.40	04.14.40									<u>i</u>		
SVII13330	Sec VII - section 5 footpath - paving block	22	01-Feb-18	01-Mar-18											
Section 6															
SVII13490	Sec VII - section 6 footpath - drainage works(Culvert L -	25	21-Oct-17	20-Nov-17											
341113470	L2204)	25	21-001-17	20-1404-17											
SVII13510	Sec VII - section 6 footpath - watermain	20	21-Nov-17	13-Dec-17											
SVII13514	Sec VII - section 6 footpath - U channel	20	14-Dec-17	09-Jan-18							 				
	·												<u>i</u>		
SVII13530	Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC, PCCW	62	14-Dec-17	02-Mar-18									-		
SVII13550	Sec III A - section 6 footpath - paving block	25	03-Mar-18	31-Mar-18										=	
							1		1	1		1	1	1 1 1	