

Lam Geotechnics Limited

#### 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-122/2002/E

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

#### - SEPTEMBER 2019 -

**CLIENTS:** 

#### PREPARED BY:

#### Lam Geotechnics Limited

Civil Engineering and Development Department

11/F Centre Point 181-185 Gloucester Road, Wanchai, H.K.

Telephone: (852) 2882-3939 Facsimile: (852) 2882-3331 E-mail: info@lamenviro.com Website: http://www.lamenviro.com

#### **CERTIFIED BY:**

pil

Raymond Dai Environmental Team Leader

DATE:

0 October 2019



Ref.: AACWBIECEM00\_0\_11699L.19

10 October 2019

By Post and Fax (2691 2649)

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

Attention: Mr. Conrad Ng

Dear Mr. Ng,

### Re: Wan Chai Development Phase II and Central-Wan Chai Bypass <u>Monthly Environmental Monitoring and Audit Report (September 2019)</u> <u>for EP-122/2002/E</u>

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for September 2019 received by e-mail on 10 October 2019 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.6 of the captioned Environmental Permit.

Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,

David Yeung Independent Environmental Checker

C.C.	CEDD	Mr. Henry Tsang	by fax: 2301 1277
	AECOM	Mr. Francis Leong / Mr. Stephen Lai	by fax: 2691 2649
	Lam	Mr. Raymond Dai	by fax: 2882 3331

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#### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report September 2019 specific for Environmental Permit no. EP-122/2002/E. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of September 2019. The cut-off date of reporting is the last day of each reporting month.
- The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting month, the principal work activities of the contracts are included as follows: <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>
  - Remediation works

#### Noise Monitoring

- iv. Continuous noise monitoring was conducted at ACL3 City Hall.
- v. Limit level exceedances were recorded 23 and 28 September 2019 in the reporting period. After investigation, the exceedance was not related to Project.
- vi. Due to safety concern, the location of the continuous noise monitoring station at City Hall was finely adjusted to the roof of the City Hall, Low Block on 1 May 2013.

#### Air Quality Monitoring

- vii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at ACL1 City Hall and ACL2a Contractor HK/2012/08 Site Office.
- viii. No action or limit level exceedance was recorded in the reporting period.
- ix. Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air quality monitoring station ACL1 – City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.



- Due to the large scale renovation works at People's Liberation Army Headquarter, a Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4<sup>th</sup> November, 2013.
- xi. The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- xii. According to the approved proposal for relocation of Air Quality Monitoring station, the action and limit levels of ACL2a shall adopt the reference monitoring result from the baseline air monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- xiii. The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

#### Water Quality Monitoring

- xiv. As confirmed by WDII RSS, the dredging works, seawall modification works and other associated works undertaken at Central Reclamation Phase III by Contractor HK/2012/08 was commenced in late September 2014. According to the approved EM&A manual under EP-122/2002/E, water quality monitoring shall be implemented at the Central Reclamation Phase III works area accordingly to asses any potential water quality impact during the construction period.
- xv. Water quality monitoring at M5B and Culvert J were conducted three days per week during reporting period starting from 26 September 2014. The action and limit level exceedance of water quality monitoring are summarized in *Table 1*.
- xvi. With respect to the confirmation of completion of marine work by WDII RSS, the water quality monitoring at M5B and Culvert J was temporary suspended from 23 August 2019 onward after completion of 4 weeks post-construction monitoring and with agreement from IEC.

#### Complaints, Notifications of Summons and Successful Prosecutions

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

#### Site Inspections and Audit

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

#### Future Key Issues

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

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

• Remediation works



#### 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 Contract HK/2015/01 Wan Chai Development Phase II and Central Wan Chai Bypass Sampling, Field Measurement and Testing works (Stage 3) to implement the Environmental Monitoring and Audit (EM&A) programme under Environmental Permit EP-122/2002/E and as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Central Reclamation Phase III Studies, Site Investigation, Design and Construction (Register No.: AEIAR-040/2001) since 27 December 2015.
- 1.1.2. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-122/2002/E, during the period of September 2019. The cut-off date of reporting is the last day 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 Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (Register No. AEIAR-040/2001) has been approved on 31 August 2001.

#### 2.2 Scope of the Project and Site Description

- 2.2.1. The design and construction of Central Reclamation Phase III involves the permanent reclamation and construction and operation of a trunk road and its road tunnel that is shown at *Figure 2.1*.
- 2.2.2. The key purpose of the study area encompasses the area of Victoria Harbour to the southeast of the new Outlying Islands Ferry Piers and north of Edinburgh Place and Lung Wui Road. The area extends eastward to Fenwick Pier Street and the Fleet Arcade, and includes the existing GPO, Star Ferry Piers, Queens Pier, City Hall, PLA Headquarters, Hong Kong Red Cross Headquarters building and the Tamar Site. The scope of the Central Reclamation, Phase III includes:
  - Reclamation and seawalls, roads and associated services, North Island Line Protection Works and Advance Trunk Road Tunnel (ATRT) for the CWB;
  - Reprovisioning of Star Ferry Pier, public landing steps, wallah wallah moorings, and motor boat/launch operators' kiosks;
  - External cooling water systems which consist of the cooling water pumping shells for future developments, and the reprovisioning of existing cooling water pumping stations and associated pipework systems and E&M works;
  - Reprovisioning of existing Leisure and Cultural Services Department (LCSD)'s facilities;
  - Provision of a flood relief path, stormwater culvert extensions, upgrading of hinterland stormwater drainage resulting from the reclamation, demolition of the existing waterfront structures and necessary landscaping;
  - The Hong Kong Station Extended Overrun Tunnel (EOT) and associated ventilation structures entrusted for construction within the CRIII works;
  - Reprovisioning of the Government Heliport at the Wan Chai PCWA and reprovisioning of the Wan Chai PCWA at Chai Wan Basin.
- 2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed



or operated. *Table 2.1* summarises the four individual DPs under this Project. <u>Figure 2.1</u> shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference
DP1	Reclamation works	Schedule 2, Part I, A.7
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1
DP3	Central-Wanchai bypass (CWB)	Schedule 2, Part I, C.1
DP4	The North Island Line (NIL) Protection Works within CRIII	Schedule 2, Part I, A.7

- 2.2.4. Contract 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) is associated with Designated Project 1(DP1) and Designated Project (DP2).
- 2.2.5. Contract HY/2009/18 Central Wanchai Bypass Central Interchange as part of the Project works by the Highways Department (HyD) is associated with Designated Project 2(DP2). As confirmed with Resident Site Staff, the construction of P1 Road of DP2 under Contract HY/2009/18 have been completed on 1 November 2017 and the monitoring association with Contract HY/2009/18 and relevant reporting has been ceased in the reporting month.
- 2.2.6. Contract HY/2010/08 Central Wanchai Bypass Tunnel as part of the Project works by the Highways Department (HyD) is associated with Designated Project 2 (DP2). As confirmed with Resident Site Staff, the junction modification of Road 1 Road of DP2 under Contract HY/2010/08 was generally completed while the remaining works was considered to be no adverse impact and not related to DP works. As such, the monitoring station association with Contract HY/2010/08 and relevant reporting has been ceased in the reporting month.

#### 2.3 Project Organization and Contact Personnel

- 2.3.1 Civil Engineering and Development Department is the overall project controllers for the Central Reclamation Phase III Project. 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*:



Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Chief Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
China State- Build King under Contract		Project Director	C. N. LAI	9106 5806	2877 1522
JV	no. HK/2012/08	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

#### Table 2.2 Contact Details of Key Personnel

- 2.3.3 In this reporting month, the principal 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> <u>Wan Chai West</u>
  - Remediation works
- 2.3.4 In coming reporting month, the principal work activities of the contract is anticipated as follows:

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

Remediation works



#### 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 environmentalprotection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-122/2002/E	24 Sep 2015	Valid

3.1.2. The current status on licences and/or permits on environmental protection pertinent for Contract no. HK/2012/08 showed in *Table 3.2.* 

# 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
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
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	-	-	-	-
	GW-RS0294-19	2 Apr 2019	5 Apr 2019 to 4 Oct 2019	Superseded by GW-RS0775-19
Construction Noise Permit	GW-RS0775-19	27 Aug 2019	29 Aug 2019 to 25 Feb 2020	Valid
	GW-RS0632-19	11 Jul 2019	13 Jul 2019 to 12 Jan 2020	Valid
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Expired



#### 4 MONITORING REQUIREMENTS

#### 4.1 Noise Monitoring

#### NOISE MONITORING STATIONS

4.1.1. The continuous 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 Continuous Noise Monitoring Stations	Table 4.1	Continuous	Noise	Monitoring	Stations
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District	Station	Description
Central	ACL3	City Hall

#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. Continuous 24-hour noise monitoring shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.
  - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
  - One set of measurements between 2300 and 0700 hours on next day on every day.
- 4.1.3. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

#### MONITORING EQUIPMENT

- 4.1.4. As referred to in the Technical Memorandum <sup>™</sup> 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.



4.1.6. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.

#### 4.2 Air Quality Monitoring

#### AIR QUALITY MONITORING STATIONS

4.2.1. The air quality monitoring stations for the Project are listed and shown in *Table 4.2* 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	
ACL1	City Hall	
ACL2a	Contractor HK/2012/08 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<sup>3</sup> per minute adjustable flow range;
  - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
  - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;



- Capable of providing a minimum exposed area of 406 cm<sup>2</sup>;
- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.
- 4.2.11. Current calibration certificates of equipment are presented in Appendix 4.2.



#### 4.3 Water Quality Monitoring

#### WATER QUALITY MONITORING STATIONS

4.3.1 The water quality monitoring stations for the Project are listed and shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.3 Water Quality Monitoring Stations

Station ID	Description	Easting	Northing		
Cooling Water Intakes					
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters	835169	816052		
Culverts (Reference Station)					
Culvert J	Culvert J Outfall Location	835082	816071		

#### WATER QUALITY PARAMETERS

- 4.3.2. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 4.3.3. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

#### SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.4. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 4.4* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
During the 4-week baseline monitoring period	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

 Table 4.4 Marine Water Quality Monitoring Frequency and Parameters



Notes:

- For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

#### DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.5. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
  - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
  - a temperature of 0-45 degree Celsius
- 4.3.6. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.7. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

#### TURBIDITY MEASUREMENT INSTRUMENT

4.3.8. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

#### SAMPLER

4.3.9. A water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

#### SAMPLE CONTAINER AND STORAGE

4.3.10. Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

#### WATER DEPTH DETECTOR

4.3.11. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

#### <u>SALINITY</u>

4.3.12. A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.



#### MONITORING POSITION EQUIPMENT

4.3.13. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

#### CALIBRATION OF IN-SITU INSTRUMENTS

- 4.3.14. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 4.3.15. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 4.3.16. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 4.3.17. Current calibration certificates of equipment are presented in Appendix 4.2.

#### LABORATORY MEASUREMENT / ANALYSIS

4.3.18. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.



### 5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are:
  - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West.
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

#### 5.1 Noise Monitoring Results

5.1.1 Due to safety concerned, the location of the continuous noise monitoring station at City Hall was finely adjusted to the roof of the City Hall, Low Block on 1 May 2013.

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

5.1.2 The proposed division of noise monitoring stations is summarized in *Table 5.1* below.

#### Table 5.1 Continuous Noise Monitoring Stations for Contract no. HK/2012/08

Location ID	District	Description
ACL3	Central	City Hall

Remarks: Continuous noise monitoring results and graphical presentation for ACL3 during restricted hours and night time period are for information only.

5.1.3 Limit level exceedances were recorded on 23 and 28 September 2019 in the reporting period. After investigation, no construction works was conducted by Contractor HK/2012/08 at CRIII area on 23 and 28 September 2019. Meanwhile, public events were held at area opposite to the monitoring station during the concerned period and considered as the major noise contribution. As such, the exceedance was not related to Project.



#### 5.2 Air Quality Monitoring Results

- 5.2.1 Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air quality monitoring station ACL1 – City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.
- 5.2.2 Due to the large scale renovation works at People's Liberation Army Headquarter, a Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4th November, 2013.
- 5.2.3 The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- 5.2.4 According to the approved proposal for relocation of Air Quality Monitoring station, the action and limit levels of ACL2a shall adopt the reference monitoring result from the baseline air monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- 5.2.5 The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

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

5.2.6 The proposed division of air quality monitoring stations are summarized in *Table 5.3* below.

 Table 5.3
 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description	
ACL1	City Hall	
ACL2a	Contractor HK/2012/08 Site Office	

5.2.7 No action or limit level exceedance was recorded in the reporting period.



#### 5.3 Water Quality Monitoring Results

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

5.3.1 The proposed division of water quality monitoring stations are summarized in *Table 5.5* below.

#### Table 5.5 Water Quality Monitoring Station for Contract no. HK/2012/08

Station ID	Description		
Cooling Water Intakes			
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters		
Culverts (Reference Station)			
Culvert J	Culvert J Outfall Location		

5.3.2 With respect to the confirmation of completion of marine work by WDII RSS, the water quality monitoring at M5B and Culvert J was temporary suspended from 23 August 2019 onward after completion of 4 weeks post-construction monitoring and with agreement from IEC.

#### 5.4 Waste Monitoring Results

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

5.4.1 No inert and non-inert C&D wastes were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.7* 



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	NIL NIL	8005 51779	TM38 TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	NIL	1925	SENT Landfill
Non-inert C&D materials recycled, m3	NIL	NIL	NIL
Chemical waste disposed, kg	NIL	NIL	NIL
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	0 (Bulk volume)	0 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 2) , m <sup>3</sup>	0 (Bulk volume)	0 (Bulk volume)	South of The Brothers

#### Table 5.7 Details of Waste Disposal for Contract no. HK/2012/08



#### 6 Compliance Audit

6.0.1 The Event Action Plan for construction noise, air and water quality are presented in <u>Appendix</u> <u>6.1.</u>

#### 6.1 Noise Monitoring

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

6.1.1. Limit level exceedances were recorded on 23 and 28 September 2019 in the reporting period. After investigation, the exceedance was not related to Project.

#### 6.2 Air Quality Monitoring

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

6.2.1 No action or limit level exceedance of was recorded in the reporting period.

#### 6.3 Water Quality Monitoring

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

6.3.1 With respect to the confirmation of completion of marine work by WDII RSS, the water quality monitoring at M5B and Culvert J was temporary suspended from 23 August 2019 onward after completion of 4 weeks post-construction monitoring and with agreement from IEC.

#### 6.4 Review of the Reasons for and the Implications of Non-compliance

6.4.1 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.

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

6.5.1 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. This section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting month.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include roadworks, drainage and seawall coping, were performed in September 2019 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 trimming work at WCR1 and WCR3 at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building ABWF works and junction modification at Central; seabed reinstatement at Causeway Bay; 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. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



#### 8 ENVIRONMENTAL SITE AUDIT

8.1.1 During this reporting month, five weekly site inspections were carried out on 3, 10, 17, 24 and 30 September 2019 for Contract no. HK/2012/08. No observation was found during the reporting month.

#### Mitigation measures implemented to prevent muddy discharge and surface runoff

8.1.2 In respect to EPD concern on muddy discharge and surface runoff from construction works during wet season, the following mitigation measures was implemented by Contractor(s):

Contract No.	Mitigation Measures implemented	
HK/2012/08	<ul> <li>Deployment of embankment along seawall</li> <li>Regular cleaning the sand / silt / mud sitting along the seawall</li> <li>Hard paved the area along seafront</li> <li>Cover the stockpile material to avoid excessive surface runoff</li> <li>Regular review and maintenance of the site drainage system</li> <li>Discharge of wastewater via wastewater treatment plant if necessary</li> </ul>	



### 9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.1.1 No environmental complaint was received in this reporting month.
- 9.1.2 The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.1.3 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	
July 2013 – August 2019	5	
September 2019	0	
Total	5	

#### 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

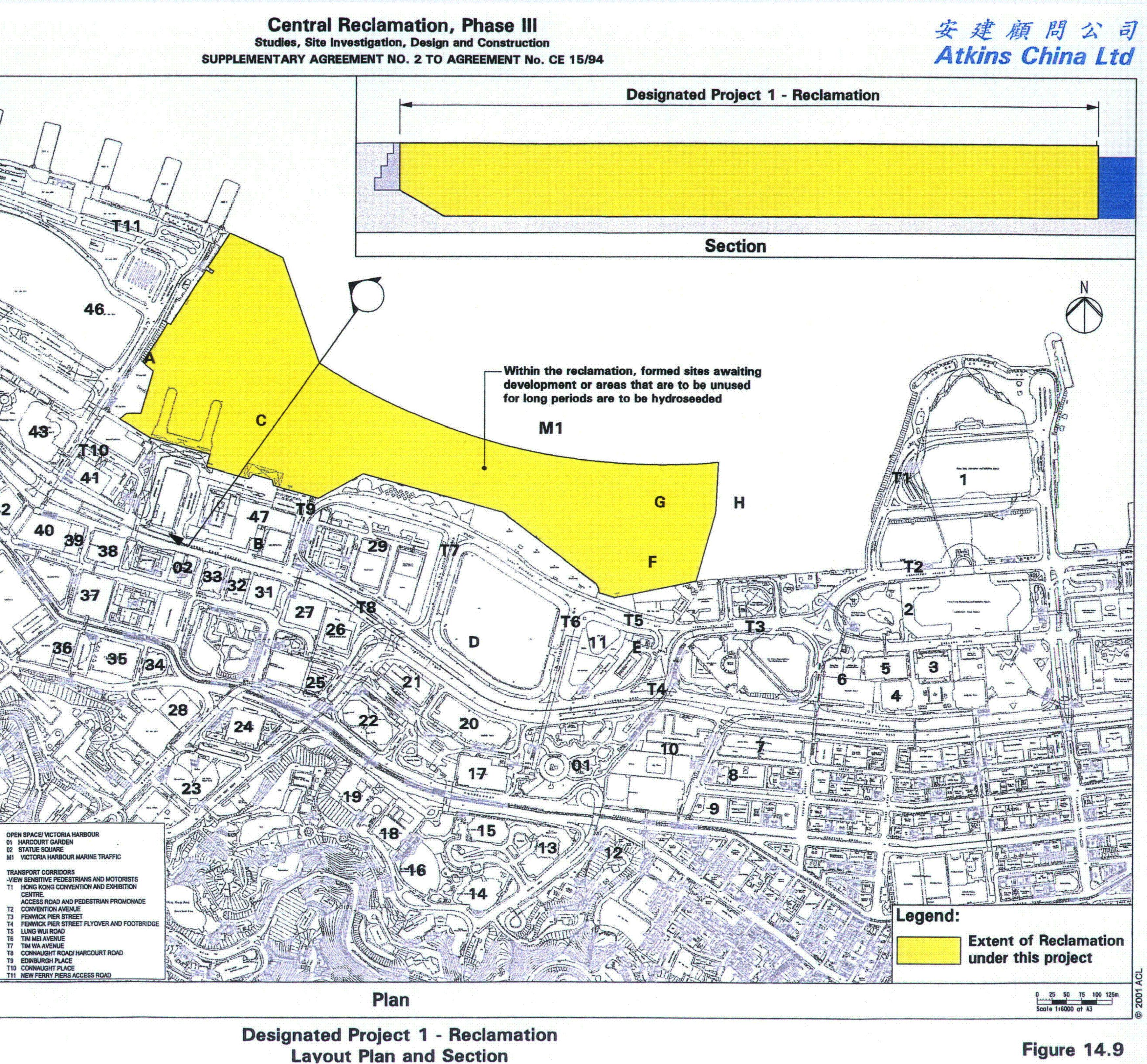
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2012/08	Remediation works	<ul> <li>Dust control during dust generating works;</li> <li>Implementation of proper noise pollution control; and</li> <li>Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>



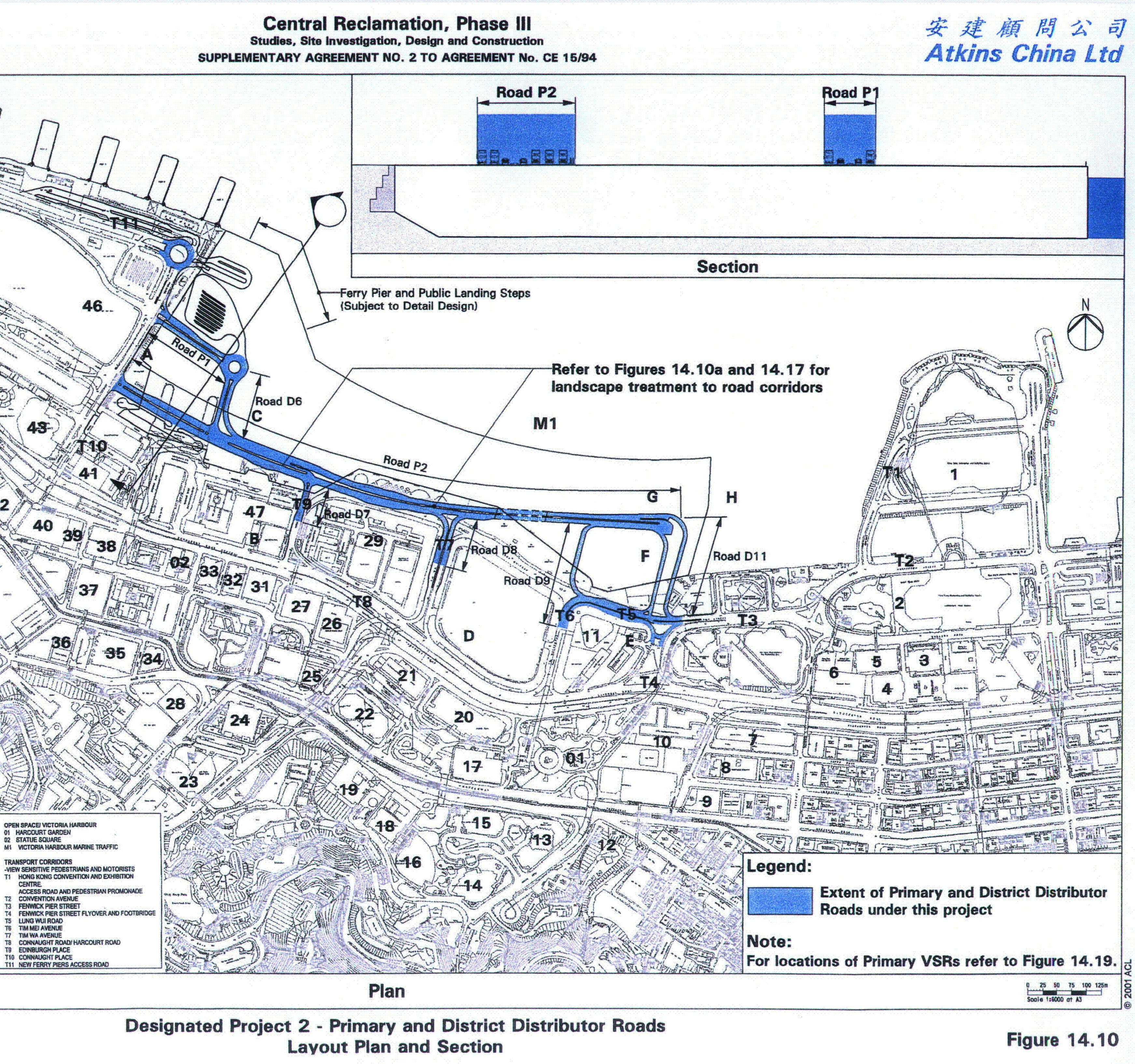
Figure 2.1

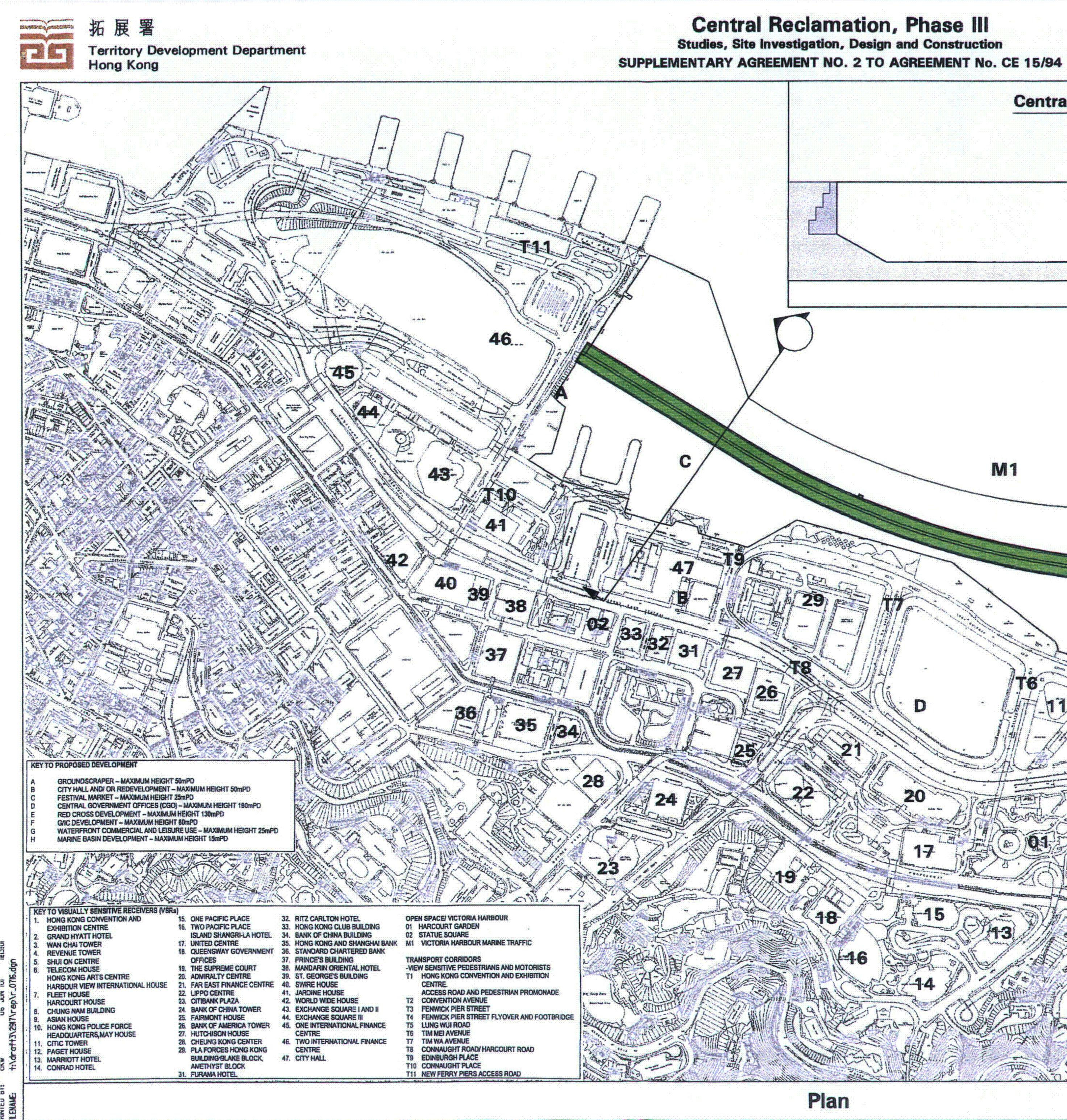
Project Layout

拓展署 **Territory Development Department** Hong Kong \*\*\*\* 45 42 KEY TO PROPOSED DEVELOPMEN ROUNDSCRAPER - MAXIMUM HEIGHT 50mF D/ OR REDEVELOPMENT -ELOPMENT - MAXIMUM HEIGHT 130mP T-MAXIMUM HEIGHT 80mPD DEVELOPMENT - MAXIMUM HEIGHT 15m KEY TO VISUALLY SENSITIVE RECEIVERS (VSRs) HONG KONG CONVENTION AND EXHIBITION CENTRE GRAND HYATT HOTEL 15. ONE PACIFIC PLACE 32. RITZ CARLTON HOTEL 16. TWO PACIFIC PLACE ISLAND SHANGRILA HOTEL 33. HONG KONG CLUB BUILDING 34. BANK OF CHINA BUILDING 17. UNITED CENTRE35. HONG KONG AND SHANGHAI BANK18. QUEENSWAY GOVERNMENT36. STANDARD CHARTERED BANK WAN CHAI TOWER REVENUE TOWER OFFICES 19. THE SUPREME COURT SHUI ON CENTRE TELECOM HOUSE HONG KONG ARTS CENTRE 37. PRINCE'S BUILDING 38. MANDARIN ORIENTAL HOTEL 20. ADMIRALTY CENTRE 39. ST. GEORGE'S BUILDING 21. FAR EAST FINANCE CENTRE40. SWIRE HOUSE22. LIPPO CENTRE41. JARDINE HOUSE23. CITIBANK PLAZA42. WORLD WIDE HOUSE ERNATIONAL HOUSE HARBOUR VIEW IN 22. LIPPO CENTRE 23. CITIBANK PLAZA 24. BANK OF CHINA TOWER FLEET HOUSE HARCOURT HOUSE 43. EXCHANGE SQUARE I AND II CHUNG NAM BUILDING 25. FAIRMONT HOUSE 26. BANK OF AMERICA TOWER 44. EXCHANGE SQUARE II ASIAN HOUSE 10. HONG KONG POLICE FORCE HEADQUARTERS, MAY HOUSE 45. ONE INTERNATIONAL FINANCE 27. HUTCHISON HOUSE CENTRE 1. CITIC TOWER 12. PAGET HOUSE 13. MARRIOTT HOTEL 14. CONRAD HOTEL 45. TWO INTERNATIONAL FINANCE 28. CHEUNG KONG CENTER 29. PLA FORCES HONG KONG BUILDING-BLAKE BLOCK, AMETHYST BLOCK 31. FURAMA HOTEL CENTRE 47. CITY HALL



拓展署 **Territory Development Department** Hong Kong 2.2 45 KEY TO PROPOSED DEVELOPMEN AND/ OR REDEVELOPMENT - MAXIMUM HEIGHT 50mF KET - MAXIMUM HEIGHT 25mPD ENT OFFICES (CGO) - MAXIMUM OPMENT - MAXIMUM HEIGHT 130mPD MAXIMUM HEIGHT 80mPD INF BASIN DEVELOPMENT - MAXIMUM HEIGHT 15mPD KEY TO VISUALLY SENSITIVE HONG KONG CONVENTION AND 15. ONE PACIFIC PLACE RITZ CARLTON HOTEL 16. TWO PACIFIC PLACE 33. HONG KONG CLUB BUILDING EXHIBITION CENTRE BANK OF CHINA BUILDING **ISLAND SHANGRI-LA HOTEL** GRAND HYATT HOTE 17. UNITED CENTRI HONG KONG AND SHANGHAI BANK WAN CHAI TOWER 18. QUEENSWAY GOVERNMENT 36. STANDARD CHARTERED BANK REVENUE TOWER 37. PRINCE'S BUILDING OFFICES SHUI ON CENTRE TELECOM HOUSE 19. THE SUPREME COURT 38. MANDARIN ORIENTAL HOTEL 39. ST. GEORGE'S BUILDING HONG KONG ARTS CENTRE 20. ADMIRALTY CENTRE 21. FAR EAST FINANCE CENTRE 40. SWIRE HOUSE HARBOUR VIEW INTERNATIONAL HOUSE 22. LIPPO CENTRE 23. CITIBANK PLAZA 41. JARDINE HOUSE FLEET HOUSE 42. WORLD WIDE HOUSE HARCOURT HOUSE 24. BANK OF CHINA TOWER 43. EXCHANGE SQUARE I AND I CHUNG NAM BUILDING 44. EXCHANGE SQUARE III 25. FAIRMONT HOUSE ASIAN HOUSE 45. ONE INTERNATIONAL FINANCE 26. BANK OF AMERICA TOWER HONG KONG POLICE FORCE 27. HUTCHISON HOUSE CENTRE HEADQUARTERS, MAY HOUSE 28. CHEUNG KONG CENTER 45. TWO INTERNATIONAL FINANCE . CITIC TOWER CENTRE 47, CITY HALL 29. PLA FORCES HONG KONG 12 PAGET HOUSE **T8** BUILDING-BLAKE BLOCK, 13. MARRIOTT HOTEL 14. CONRAD HOTEL AMETHYST BLOCK 31. FURAMA HOTEL

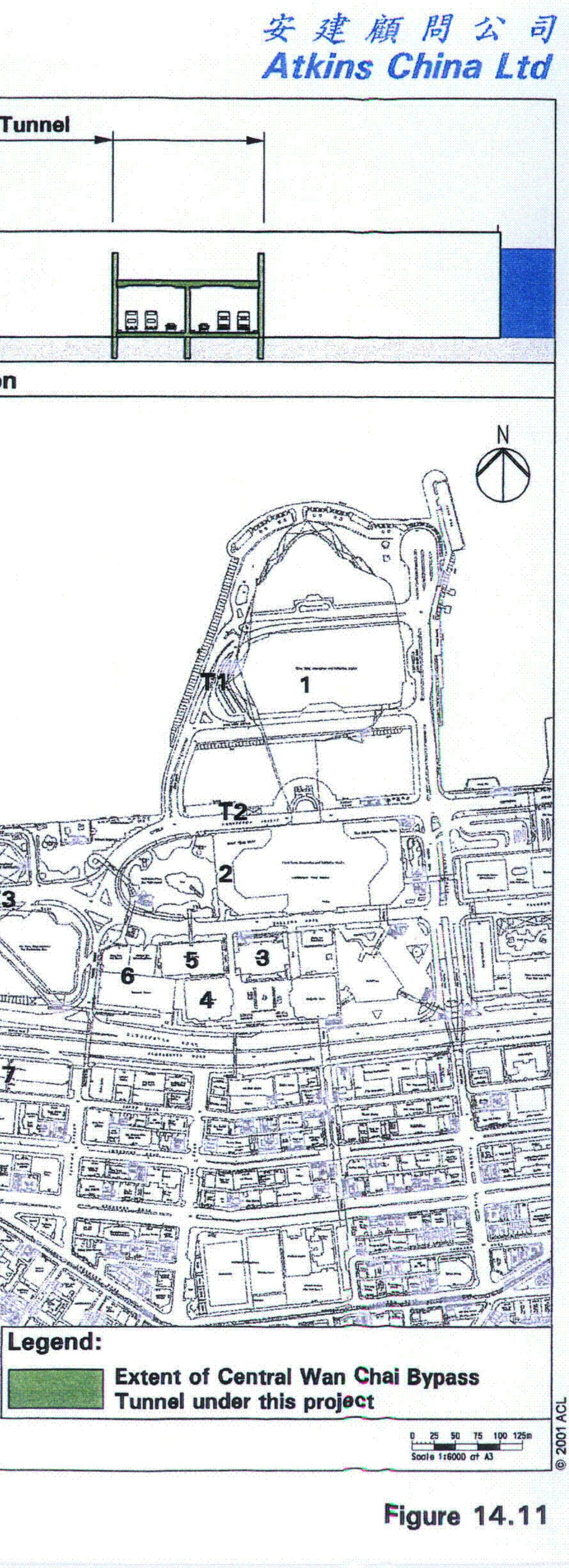




**Designated Project 3 - Central Wan Chai Bypass Tunnel Layout Plan and Section** 

**Central Wan Chai By Pass Tunnel** (35m Approx.) Section **M1** Η **T6** C. Kanin L.

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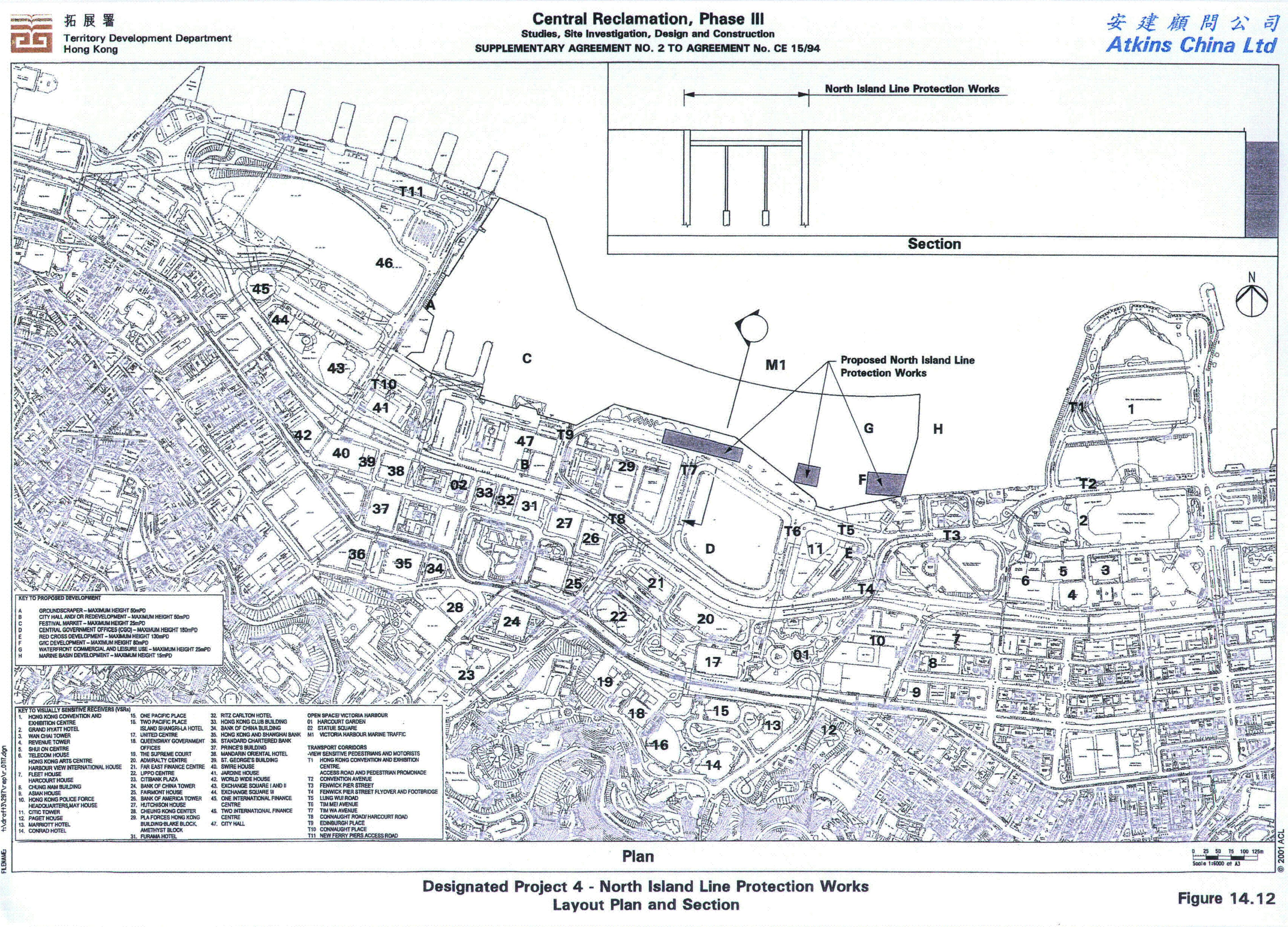




Figure 2.2

**Project Organization Chart** 



## Project Organization Chart

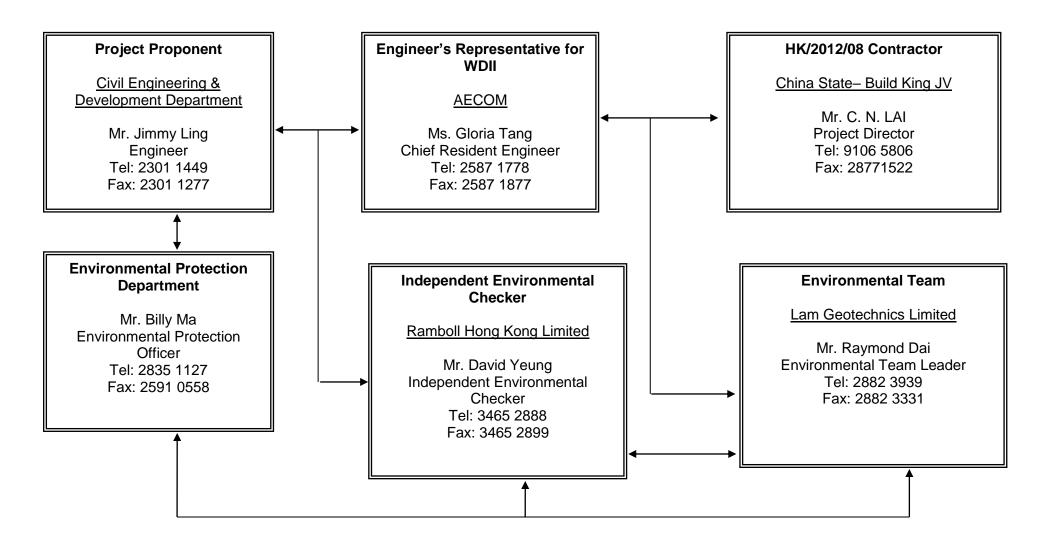
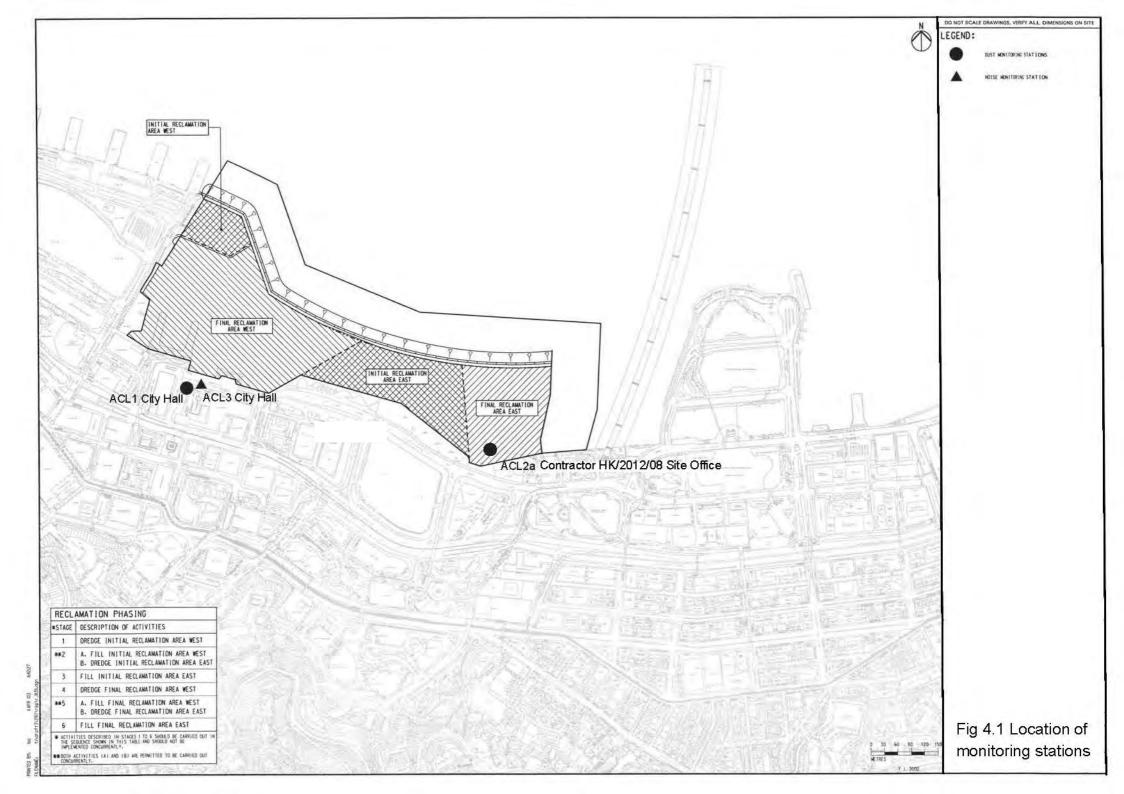
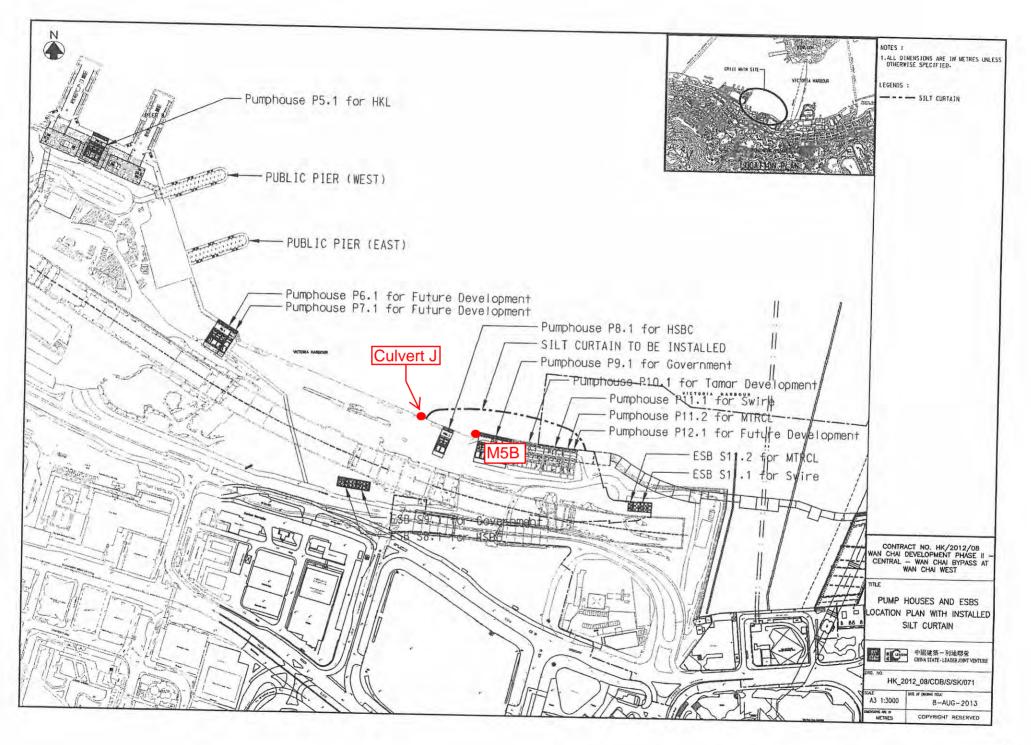




Figure 4.1

Locations of Monitoring Stations







Appendix 3.1

Environmental Mitigation Implementation Schedule



## IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
1	Operational Traffic Noise*	The openings of ventilation buildings or ventilation shafts should be placed carefully and ideally should be such that they are not facing directly onto any NSR.	Various	Area Wide, Proposals at design stage for Implementation during construction	D/C	N/A	
2	Operational Air Quality	Air intakes for commercial/G/IC buildings should be placed such that they are at locations where contours indicate AQOs are met.	ArchSD/Private sector +	CRIII During development of sites Completion of CRIII	Development of CRIII	Carry forward to design stage	6
3	Operational Water Quality	Provision of grit traps for surface drainage	TDD's Contractor	New roads and paved areas During construction End of construction	С	P, R, A, C	7
4	Operational Landscape and Visual	Operational stage landscape and visual mitigation measures should include +					
		<ul> <li>Implementation of the Waterfront Promenade, Statue Square Corridor, Historic Corridor, Civic Corridor, Arts and Entertainment Corridor, Streetscape Network, Landscape Decks, and Supplementary Landscape Spaces;</li> <li>provision of a legible, integrated pedestrian circulation system linking major activity nodes, reinforcing links with adjoining areas, and providing an international quality hard and soft landscape treatment;</li> <li>provision of a grade separated pedestrian system to minimise vehicular/ pedestrian conflict;</li> <li>provision of an integrated network of local and regional open spaces for passive and active recreation;</li> <li>preservation of selected architectural features;</li> <li>preservation insitu of existing significant vegetation, principally the two Banyan Trees flanking the Tamar Site;</li> <li>prew roads to incorporate suitable streetscape amenity and landscape planting to</li> </ul>	Various	Area wide, proposals at design stage for implementation during construction	D/C	Ρ	
		<ul> <li>new roads to incorporate suitable streetscape amenity and landscape planting to minimise visual and environmental impacts;</li> </ul>					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul> <li>existing roads upgraded to 'marry' with the proposed landscape framework;</li> <li>Hydroseeding of reclamation if there is no immediate use of the site, periphery of the reclamation;</li> <li>Designated service corridors beneath footpaths to prevent potential impacts upon vegetation during services maintenance;</li> <li>Sensitively designed colour themes to footpath paving areas; and</li> <li>Sensitively designed seawall to enhance the recreational value of the future promenade can be included.</li> </ul>	Various	Area wide, proposals at design stage for implementation during construction	D/C	Ρ	
5	Construction Noise Control Requirements	Use of the following quiet mechanical equipment for construction works : •air compressor; paver; hand held breaker; breaker, excavator mounted; bulldozer; concrete lorry mixer; concrete pump; crane; dump truck; excavator/ loader; grader; lorry ; poker; road roller; vibratory roller;	TDD's Contractor	Works Area During construction End of construction Work Sites as stated	С	P, R, A, C P, A	-
		<ul> <li>Use of noise barriers (in the form if purpose built site hoarding of 3 - 5 m height and surface density of at least 7 kgm<sup>2</sup> with cranked top) for the following works:</li> <li>Hong Kong Station Extended Overrun Tunnels to north of Central Barracks.</li> <li>North Island Line Protection Works to north of Central Barracks;</li> <li>Road/Drainage Works to north of Central Barracks;</li> <li>Culvert F Piling Works to north of City Hall.</li> </ul>	TDD's Contractor	Start of activity stated End of activity stated		Ρ, Α	
		<ul> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.</li> </ul>	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		• Silencers or mufflers on construction equipment shoud be utilised and should be properly maintained during the construction programme.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		$\cdot$ Mobile plant, if any, should be sited as far away from noise sensitive facilities as possible.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		<ul> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby noise sensitive facilities.</li> </ul>	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		<ul> <li>Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activites.</li> </ul>	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
6	Construction Air Quality Control Requirements	<ul> <li>Strictly limit truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition.</li> </ul>	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		Twice daily watering of the site with active operations when the weather and the work site are dry.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		Watering during excavation and material handling.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		•Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		Covers for dusty stockpiles	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6
		All plant shall be maintained ot prevent any undue air emmissions	TDD's Contractor	Works Area	С	P,R,A,C	6



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
				During construction End of construction			
7	Construction W ater Quality Control Requirements	<ul> <li>Specific Measures Associated with Dredging Works</li> <li>the use of closed clamshell (water-tight) grab dredgers to remove seriously contaminated material such that the amount of SS and other pollutants released from the marine mud and pore water can be minimised;</li> <li>the prohibition of stockpiling of any moderately or seriously contaminated marine sediment, and careful control of stockpiling of any uncontaminated sediment to prevent runoff, resuspension and odour nuisances; and</li> <li>the control of dredging and bulk reclamation filling rates within acceptable limits. Based upon the construction sequence developed for this study the maximum dredging and filling rates adopted for Final Reclamation Area East were : Maximum Dredging Rate : 184 m²/hour Maximum Daily Filling Rate : 17,727 m³/day (for bulk reclamation filling)</li> <li>Maximum dredging and filling rates for other reclamation sites should take account of information contained in Table 10.14 of the EIA Report and envisaged construction</li> </ul>	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7
		<ul> <li>sequence.</li> <li>no dredging should take place under very bad weather conditions.</li> </ul>					
		<ul> <li>silt curtain around dredging sites to be provided as necessary.</li> <li>Specific Measure for Marine Disposal of Dredged Materials and Maine Sand Filling Works</li> <li>all vessels should be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> </ul>	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	с	R	7
		<ul> <li>all hopper barges and dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>loading of hopper barges should be controlled to prevent splashing of dredged or filling material to the surrounding water, and barges or hoppers should not be filled to a level which will cause the overflow of materials or polluted water during loading or</li> </ul>					



Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
	transportation;					
	the works should cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7
	water mark. In general and where physically practical, filling should not be carried out without the seawall having been substantially completed for a distance of 100m – 200m ahead of filling; and					
	<ul> <li>fill materials should comply with technical specification requirements and be taken from approved sources only. The maximum fines content of marine sand should be limited to 5% as assumed in the water quality assessments.</li> </ul>					
	<ul> <li>transport of contaminated mud (or filling material) to the marine disposal site (or works site) should, wherever possible, be by split barge of not less than 750 m<sup>3</sup> capacity, well maintained and capable of rapid opening and discharge at the disposal site;</li> <li>the dredged material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC;</li> </ul>					
	• discharge should be undertaken rapidly and the hoppers should then immediately be closed. Material adhering to the sides of the hopper should not be washed out of the hopper and the hopper should remain closed until the barge next return to the disposal site;					
	<ul> <li>the dumping vessel is not required to station but will be guided by the site staff managing the disposal facility. The vessel crew should be familiar with such operational procedures;</li> <li>monitoring of the barge loading to ensure that loss of material does not take place during transportation; and</li> </ul>					
	Activity	<ul> <li>transportation;</li> <li>the works should cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;</li> <li>bulk filling should be carried out, where feasible, behind completed seawall to above high water mark. In general and where physically practical, filling should not be carried out without the seawall having been substantially completed for a distance of 100m – 200m ahead of filling; and</li> <li>fill materials should comply with technical specification requirements and be taken from approved sources only. The maximum fines content of marine sand should be limited to 5% as assumed in the water quality assessments.</li> <li>transport of contaminated mud (or filling material) to the marine disposal site (or works site) should, wherever possible, be by split barge of not less than 750 m<sup>3</sup> capacity, well maintained and capable of rapid opening and discharge at the disposal site;</li> <li>the dredged material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC;</li> <li>discharge should be undertaken rapidly and the hoppers should then immediately be closed. Material on the sides of the hopper should not be washed out of the hopper and the hopper should remain closed until the barge next return to the disposal site;</li> <li>the dumping vessel is not required to station but will be guided by the site staff managing the disposal facility. The vessel crew should be familiar with such operational procedures;</li> <li>monitoring of the barge loading to ensure that loss of material does not take place during</li> </ul>	for Implementation         transportation;         • the works should cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;       TDD's Contractor         • bulk filling should be carried out, where feasible, behind completed seawall to above high water mark. In general and where physically practical, filling should not be carried out without the seawall having been substantially completed for a distance of 100m – 200m ahead of filling; and       TDD's Contractor         • fill materials should comply with technical specification requirements and be taken from approved sources only. The maximum fines content of marine sand should be limited to 5% as assumed in the water quality assessments.       • transport of contaminated mud (or filling material) to the marine disposal site (or works site) should, wherever possible, be by split barge of not less than 750 m <sup>3</sup> capacity, well maintained and capable of rapid opening and discharge at the disposal site;       • the dredged material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC;         • discharge should be undertaken rapidly and the hoppers should not be washed out of the hopper and the hopper should remain closed until the barge next return to the disposal site;       • the dumping vessel is not required to station but will be guided by the site staff managing the disposal facility. The vessel crew should be familiar with such operational procedures; • monitoring of the barge loading to ensure that loss of material does not take place during transportation; and	for Implementation       for Implementation       Duration completion of measures         transportation;	for Implementation       Duration completion of measures       Stage C: Construction D: Design         transportation;       - the works should cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;       TDD's Contractor       Whole reclamation area During reclamation works       C         - bulk filling should be carried out, where feasible, behind completed seawall to above high water mark. In general and where physically practical, filling should not be carried out without the seawall having been substantially completed for a distance of 100m – 200m ahead of filling; and       TDD's Contractor       C         - fill materials should comply with technical specification requirements and be taken from approved sources only. The maximum fines content of marine sand should be limited to 5% as assumed in the water quality assessments.       - the dragded material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC:       - the dredged material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC:       - discharge should be undertaken rapidly and the hopper should not be washed out of the hopper and the hopper should remain closed until the barge next return to the disposal site;       - the dumping vessel is not required to station but will be guided by the site staff managing the disposal facility. The vessel crew should be familiar with such operational procedures; - monitoring of the barge loading to ensure that loss of material does not take place during transportation; and       - the during of the barge loading to ensure that loss of material does not take place during transportation; and       - th	for Implementation       Duration completion of measures       Stage C : Construction D : Design       Conditions apply to         transportation;



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		Specific Measures Associated with Dredging and Filling Works when CRIII Dredging and Filling Works are being constructed concurrently with WDII Dredging and Filling Works					
		<ul> <li>deployment of silt curtains around the dredging and fill release points to contain SS within the construction site during dredging and filling;</li> <li>deployment of silt screens at the cooling water intakes and WSD salt water intakes to further minimise the intake of SS within the sea water.</li> </ul>	TDD's Contractor	Reclamation Areas as appropriate When CRIII and WDII - Dredging and Filling Works occur concurrently End of Concurrent Works	С	R	-
		Specific Measures Associated with Floating Debris The result of the floating debris simulation has shown that the intermediate layout of the proposed reclamation has potential to trap floating rubbish. Monitoring and control of the construction activities should be taken to prevent the release of construction waste and rubbish from the construction site. Collection of floating debris should be carried out at least once every day by the CRIII Contractor, and more frequently (two or three times per day) at the water body south of the Initial Reclamation Area West and near the cooling water intakes where large substances could block the screens and filter pipes of the intakes and reduce their efficiency. Debris should be collected and taken to landfill sites for disposal.	TDD's Contractor	Whole reclamation area During construction At end of construction	C	R	-
		Specific Measures for Dealing with Culvert L Outfall at Completion of CRIII Eastern Seawall As a mitigation measure, to avoid the accumulation of water borne pollutants within a temporary embayment to the east of CRIII, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the CRIII Contractor on completion of the CRIII eastern seawall. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The CRIII Contractor will maintain this barrier until the WDII Contractor takes possession of this site, whereupon the WDII Contractor will takeover the maintenance of this barrier until the reclamation works in this area are carried out and the new Culvert L extension is constructed.	TDD's Consultant	Culvert L Outfall During Construction To handover to WDII Contractor	С	R	



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul> <li>Construction Run-off and Drainage</li> <li>Control of Site Surface Runoff:</li> <li>Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.</li> <li>Silt removal facilities, channels and manholes should be maintained.</li> <li>Construction works should be programmed to minimise soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided, temporarily exposed slope surfaces should be covered and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided.</li> <li>Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage such as intercepting channels should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.</li> <li>Open stockpiles of construction materials should be covered.</li> </ul>	TDD's Contractor	Works Area During construction End of construction	C	P,R,A,C	7
		<ul> <li>Manholes should be adequately covered and temporarily sealed.</li> <li>Groundwater</li> <li>Groundwater pumped out of tunnels or caverns should be discharged into storm drains after the removal of silt.</li> </ul>					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul> <li>Boring and Drilling Water</li> <li>Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be recirculated after sedimentation. Wastewater should be discharged into storm drains via silt removal facilities.</li> <li>Wastewater from Concrete Batching and Precast Concrete Casting</li> <li>Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should wherever practicable be recycled. The discharge of wastewater should be kept to a minimum.</li> <li>To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an on-line standby pump of adequate capacity and with automatic alternating devices.</li> <li>Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment. Surface run-off should be segregated from the concrete mixing and casting yard area as much as possible, and diverted to the stormwater drainage system. Surface run-off contaminated by materials in a concrete mixing area or casting yard should be adequately treated before disposal into stormwater drains.</li> </ul>	TDD's Contractor	Work Area During construction End of construction	C	P,R,A,C	7
		<ul> <li>Wheel Washing Water</li> <li>All vehicles and plant should be cleaned before they leave the construction site. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.</li> <li>Bentonite Slurries</li> <li>Bentonite slurries should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil site subject to obtaining a marine dumping licence from EPD (on a case-by-case basis).</li> </ul>	TDD's Contractor	Work Area During construction End of construction	C	P,R,A,C	7



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		- If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.					
		<ul> <li>Wastewater from Building Construction</li> <li>Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.</li> <li>Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary.</li> </ul>					
		<ul> <li>Licensing of Construction Site Discharges within Water Control Zones</li> <li>All discharges into any drainage or sewerage systems, or inland or coastal waters, or into the ground (e.g. from septic tanks) within a Water Control Zone are controlled under the Water Pollution control Ordinance (WPCO), except the discharge of domestic sewage into foul sewers or the discharge of unpolluted water into storm drains or into the waters of Hong Kong. Construction site discharges are controlled under the WPCO.</li> <li>Discharges controlled under the WPCO must comply with the terms and conditions of a valid WPCO licence.</li> </ul>					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
8.	Construction Waste Control Requirements	Specific Measures Associated with Marine sediments					
		In accordance with the WBTC No. 3/2000, the seriously contaminated material must be dredged and transported with great care. Mitigation measures, includeding the use of close-grab dredgers, shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the East Sha Chau Contaminated Mud Pits.	TDD's Contractor	Whole Reclamation Area During Reclamation Works End of Reclamation Work	С	R	7
		<ul> <li>Segregation and Disposal of Wastes</li> <li>inert demolition/construction waste material when deemed suitable for reclamation or land formation should be re-used on-site;</li> <li>non-inert demolition / construction waste material should be disposed of at landfills;</li> <li>chemical waste as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be stored in accordance with approved methods defined in the Regulation and Code of Practice and the chemical waste disposed of at the Chemical Waste Treatment Facility located at Tsing Yi or an approved recycler;</li> <li>general refuse should be recycled where possible or disposed of at public landfill.</li> </ul>	TDD's Contractor	Works Areas During Construction End of Construction	С	P, R, A, C	1,8, 9
		<ul> <li>Storage, Collection and Transport of Waste</li> <li>wastes should be handled and stored in a manner which ensures that they are held securely without loss or leakage thereby minimising the potential for pollution. Release of these potential pollutants into marine waters during storage, handling or barge transportation should not be permitted as introduction of polluted waters is likely to have detrimental effects on water quality and water sensitive receivers;</li> <li>only reputable waste hauliers authorised to collect the specific category of waste concerned should be employed;</li> <li>appropriate measures should be employed to minimise windblown litter and dust during transportation by using enclosed bins, covering trucks or transporting wastes in enclosed containers;</li> <li>the necessary waste disposal permits and registrations should be obtained from the appropriate authorities, if they are required, in accordance with the Waste Disposal</li> </ul>	TDD's Contractor	Works Areas During Construction End of Construction	С	P, R, A, C	1, 8, 9



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
9	Construction Landscape and Visual Control Requirements	<ul> <li>Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and the Crown Land Ordinance;</li> <li>collection of general refuse should be carried out frequently, preferably daily;</li> <li>waste should only be disposed of at licensed sites and the civil engineering contractor should develop procedures to ensure that illegal disposal of wastes does not occur;</li> <li>waste storage areas should be well maintained and cleaned regularly;</li> <li>records should be maintained of the quantities of wastes generated, recycled and disposed, determined by weighing each load or other method; and</li> <li>A "trip ticket" system should be implemented, if required by Government.</li> <li>Construction stage landscape and visual mitigation measures should include :</li> <li>Minimising contractors accesses and working areas as far as possible;</li> <li>Protection and retention of existing vegetation where possible in accordance with the Hong Kong Government "A Guide to Tree Planting and Maintenance in Urban Hong Kong, Section 5" Care of Trees on Development Sites' and the Country Parks Ordinance</li> <li>Transplanting of trees where appropriate;</li> <li>Advance planting and visual screening;</li> <li>Conservation of top soil;</li> <li>Design of the temporary works areas so as to optimise eventual use as promenade and public open space; and</li> <li>Sensitively designed site hoarding.</li> </ul>	TDD's design consultant	Area wide during design and contract preparation	D	P, R, A, C	11, 12, 13,14
10	Monitoring and Audit	To be carried out in accordance with the Schedule in the EM and A Manual	TDD*/Contractor/ RSS TDD's design consultant	Works areas During construction End of construction and within one year of operational phase Area wide during design and contract preparation	C/O D	P, R, A, C P, R, A, C	1 11,12,13,14

### **Relevant Guidelines Legislation**

- 1. Environmental Impact Assessment Ordinance Technical Memorandum (EIAO)
- 2. HKPSG
- 3. ExCo Criteria for ITR
- 4. Noise Control Ordinance
- 5. The ProPECC Note PN2/93 (Construction Noise daytime limits)
- 6. Air Pollution Control Ordinance (APCO)
- 7. Water Pollution Control Ordinance (WPCO)(Cap. 358)
- 8. Waste Disposal Ordinance (Cap 354)
- 9. Waste Disposal (Chemical Waste)(General) Regulation (Cap 354)
- 10. Land Ordinance (Cap 28)
- 11. WBTC 25/92 Allocation of Space for Urban Trees
- 12. WBTC 25/93 Control of Visual Impact of Slopes
- 13. WBTC 18/94 Management and Maintenance of both Natural Vegetation and Landscape Works
- 14. WBTC 24/94 and PELBTC 3/94 "Tree Preservation"
- 15. Antiquities and Monuments Ordinance (Cap 53)

### Permit Conditions apply to

- P Primary and District Distributor Roads
- R Reclamation
- A North Island Line Protection Works
- C Central and Wanchai Bypass
- + These items should be excluded from any Environmental Permit conditions as these refer to future development of the area (which is not designated under the EIAO), and are not related to reclamation and dredging activities which are designated, and can hence be controlled through EP conditions.
- \* Normally undertaken by a specialist monitoring team employed directly by the proponent and audited by the Environmental Works Checker.



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.	70 dB(A)

## Action and Limit Level for Air Quality Monitoring

Monitoring Locations	1-hour TSP Le	vel inµg/m3	24-hour TSP Level inµg/m		
	Action Level	Limit Level	Action Level	Limit Level	
ACL1 - City Hall	460	500	163	260	
ACL2a - Contractor HK/2012/08 Site Office	300.1	500	187.3	260	

## Action and Limit Level for Water Quality Monitoring

Parameters Action Level		Limit Level		
M5B – Central Cooling Water Intake Group				
SS in mg/L	12.00	17.00		
DO in mg/L	4.60	3.00		



Appendix 4.2

Copies of Calibration Certificates



## 综合試驗有限公司 SOILS&MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓

12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong, E-mail: smec@clgismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



## CERTIFICATE OF CALIBRATION

Certificate No.:	18CA0907 02		Page	1	of	2
Item tested						
Description:	Sound Level Mete	er (Type 1)	Microphone		Preamp	
Manufacturer:	B&K		B&K		B&K	
Type/Model No.:	2250-L		4950		ZC0032	
Serial/Equipment No.:	3006790		2827240		21213	
Adaptors used:			4		*	
Item submitted by						
Customer Name:	Lam Geotechnics	Limited				
Address of Customer:						
Request No.:	-					
Date of receipt:	07-Sep-2018					
Date of test:	10-Sep-2018					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:		Traceabl	e to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2019		CIGISMED	Sec. 10
Signal generator	DS 360	33873	24-Apr-2019		CEPREI	
Signal generator	DS 360	61227	23-Apr-2019		CEPREI	
Ambient conditions						
Temperature:	21 ± 1 °C					
Relative humidity:	50 ± 10 %					
Air pressure:	1005 ± 5 hPa					
Test succifications						
Test specifications						

- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng

10-Sep-2018 Company Chop:



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

Date:

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Form No. CARP 152-Literuar 1/Rev. CK01002/2007



## 综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香 港 黄 竹 坑 道 3 7 號 利 達 中 心 1 2 懐 12/F, Leader Centre, 37 Wong Chuk Hang Road, Aberderin, Hong Kong. E-mail: smec@cligismec.com Website: www.cligismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533

Page



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA0907 02

2 of 2

### 1, Electrical Tests

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

Test	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	A C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leg	At reference range . Step 5 dB at 4 kHz	Pass	0.3	
, , ,	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range . Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
and the second second second	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting 1	Single burst 5 ms at 2000 Hz	Pass	0.3	
Contraction and Constanting of	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leg	Pass	0.4	

### 2, Acoustic tests

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

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
0.0010000000000000000000000000000000000	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

### N/A

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

End Calibrated by: Checked by: Fung Chi Yip sk Kwong Tat 10-Sep-2018 Date: 10-Sep-2018 Date:

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

O Sale & Materials Ergenütring Cit. Ltd.

Form No CARP 152 24ssue 1/Rev C/01/02/2007



### 综合試驗 有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong.

E-mail: smec@cigismec.com

] 達 中 心 1 2 樓 Tel: (852) 2873 6860 Hang Road, Aberdeen, Hong Kong. Fax: (852) 2555 7533 Website: www.cigismec.com



# CERTIFICATE OF CALIBRATION

Certificate No.:	19CA0905 02		Page	1 of 2
Item tested				
Description:	Sound Level Mete	r (Type 1)	Microphone	Preamp
Manufacturer:	B & K		B&K	B&K
Type/Model No.:	2250-L		4950	ZC0032
Serial/Equipment No.:	3006790		2827240	21213
Adaptors used:	-		- 125	-
tem submitted by				
Customer Name:	Lam Geotechnics	Limited		
Address of Customer:	-			
Request No.:	-			
Date of receipt:	05-Sep-2019			
Date of test:	06-Sep-2019			
Reference equipment	used in the calib	ration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2020	CIGISMEC
Signal generator	DS 360	61227	26-Dec-2019	CEPREI
Ambient conditions				
Temperature:	21 ± 1 °C			
Relative humidity:	55 ± 10 %			
Air pressure:	1000 ± 5 hPa			

### **Test specifications**

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng Junai

06-Sep-2019 Company Chop:



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

Date:

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



### 综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道 3 7號利達中心 1 2 樓

12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



## **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

19CA0905 02

Page

of

2

2

### 1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
1000	Sublect.	otatuo.	checklandy (ab)	ractor
Self-generated noise	А	Pass	0.3	
5	С	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
-	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

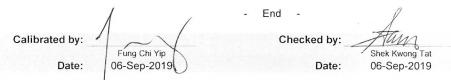
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

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

### 3, Response to associated sound calibrator

N/A

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



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

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

# Calibration Certificate

Certificate Number 2018010851

Customer: LAM Environmental Services Ltd 11/F Centre Point 181-185 Gloucester Road Wanchai, , Hong Kong

Model Number	CAL20	0	Procedure Number	D0001	8385	
Serial Number	13098		Technician	Technician Scott I		mery
Test Results	Pass		Calibration Date	29 Oc	t 2018	
		and a	Calibration Due			
Initial Condition	Initial Condition Inoperable		Temperature	23	*C	± 0.3 °C
Description	Description Larson Davis CAL200 Acoustic Calibrator		Humidity	34	%RH	± 3 %RH
			Static Pressure	101.2	kPa	±1 kPa
Evaluation Metho	od	The data is aquired by the insert volta circuit sensitivity. Data reported in dB	500 XM 200 CM 570	ne refere	nce mic	crophone's open
Compliance Standards Compliant to Manufacturer Specification IEC 60942:2017			ions per D0001.8190 and the ANSI S1.40-2006	following	standa	ards:

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a \$ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Standards Used	1	
Cal Date	Cal Due	Cal Standard
09/06/2018	09/06/2019	001021
04/10/2018	04/10/2019	001051
03/07/2018	03/07/2019	005446
09/20/2018	09/20/2019	006506
08/07/2018	08/07/2019	006507
05/10/2018	05/10/2019	006510
07/18/2018	07/18/2019	007368
	Cal Date 09/06/2018 04/10/2018 03/07/2018 09/20/2018 08/07/2018 05/10/2018	09/06/2018 09/06/2019 04/10/2018 04/10/2019 03/07/2018 03/07/2019 09/20/2018 09/20/2019 08/07/2018 08/07/2019 05/10/2018 05/10/2019

Larson Davis, a division of PCB Piczotronics, Inc 1681 West 820 North Provo, UT 84601, United States 716-684-0001





10/29/2018 1-43-01PM



## 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香 徳 黄 竹 坑 砲 3 7 號 利 達 中 心 1 2 樓 12F., Loader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong,

E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533

24-Apr-2019



## CERTIFICATE OF CALIBRATION

Certificate No.:	18CA1220 02		Page:	1 of 2
Item tested				
Description:	Acoustical Calib	ator (Class 1)		
Manufacturer:	Larson Davis	2010/07/07/07/07		
Type/Model No.:	CAL200			
Serial/Equipment No.:	13128			
Adaptors used:	(0.259350) 55			
Item submitted by				
Curstomer:	Lam Environmer	tal Service Ltd.		
Address of Customer:				
Request No.:	ini Marananana			
Date of receipt:	20-Dec-2018			
Date of test:	28-Dec-2018			
Reference equipment	used in the cali	bration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	20-Apr-2019	SCL
Preamplifier	B&K 2673	2239857	27-Apr-2019	CEPREI
Measuring amplifier	B&K 2610	2346941	08-May-2019	CEPREI
Signal generator	DS 360	33873	24-Apr-2019	CEPREI
Digital multi-meter	34401A	US36087050	23-Apr-2019	CEPREI
Audio analyzer	89038	GB41300350	23-Apr-2019	CEPREI

### Ambient conditions

Universal counter

Temperature:	20 ± 1 °C		
Relative humidity:	50 ± 10 %		
Air pressure:	1000 ± 5 hPa		

53132A

### Test specifications

1. The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

MY40003662

- 2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- З, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference. pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

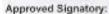
### Test results

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

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

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29-Dec-2018 Company Chop:



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

Date:

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Farm No. CARP106-54ssue 1/Rev. Dt01/03/2007

CEPREI



### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香 進 黄 竹 坑 道 3 7 號 利 達 中 心 1 2 樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

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



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA1220 02

2 Page:

### Measured Sound Pressure Level 1.

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

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	d8	dB
1000	94.00	93.84	0.10

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

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

At 1000 Hz	STF = 0.006 dB

Estimated expanded uncertainty

### 3, Actual Output Frequency

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

0.005 dB

At 1000 Hz	Actual Frequency = 999.4 Hz		
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2:2	

### 4, **Total Noise and Distortion**

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

At 1000 Hz	TND = 0.4%
Estimated expanded uncertainty	0.7 %

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

	Λ	- End -	1
Calibrated by:	$1 - \chi$	Checked by:	Aque
Date:	28-Dec-2018	Date:	Shek Kwong Tat 29-Dec-2018

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

ID Solis & Materials Engineering Co., Ltd.

Form No.CARP198-24soue 1/Rev.CI01/05/2005

15	30	Cŀ		7	)		D	ALIBRATION UE DATE: ary 11, 2020
vir	Ce	rtifa	a I			2012/02/2012	ation	
-	12 10 124		Contraction of the local division of the loc				0.97	
Cal. Date:	January 11,	2019	Rootsn	neter S/N:	438320		293	°К
Operator:	Jim Tisch					Pa:	760.7	mm Hg
Calibration	Model #:	TE-5025A	Calib	rator S/N:	0005			
		Vol. Init	Mat. Plant	avet	ATT	4.0		1
	Bun	10.000	Vol. Final	ΔVol.	∆Time (min)	ΔP	ΔH (i= μ2O)	
	Run	(m3)	(m3)	(m3)	(min) 1.4090	(mm Hg)	(in H2O)	
	1	1	2	1	the state of the s	3.2	2.00	1
	2	3	4	1	0.9980	6.4	4.00	1
	3	5	6	1	0.8900	7.8	5.00	1
	4	9	8	1	0.8450	8.7	5.50	4
	>	э	10	1	0.6990	12.6	8.00	
			D	ata Tabulat	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	Tstd )		Qa	√∆н(та/Ра)	
	(m3)	(x-axis)	(y-axis	5)	Va	(x-axis)	(y-axis)	
	1.0138	0.7195	1.426	9	0.9958	0.7067	0.8777	
	1.0095	1.0115	2.018	0	0.9916	0.9936	1.2412	
	1.0076	1.1321	2.256	1	0.9897	1.1121	1.3877	
	1,0064	1.1910	2.366	3	0.9886	1.1699	1.4555	
	1.0012	1.4323	2.853		0.9834	1.4059	1.7553	
		m=	1.998			m=	1.25149	
	QSTD	b=	-0.008		QA	b=	-0.00543	
		r=	0.999	97		r=	0.99997	
				Calculation	15			
			/Pstd)(Tstd/Ta	) [		∆Vol((Pa-∆i	P)/Pa)	
	Qstd=	√std/∆Time			Qa=	Va/∆Time		
			For subseque	ent flow rat	e calculation	ts:		
	Qstd=	1/т (( √Дн(-	$\frac{Pa}{Pstd}$ $\left(\frac{Tstd}{Ta}\right)$	)-b)	Qa=	$1/m \left( \sqrt{\Delta F} \right)$	(Ta/Pa))-b)	
	Standard	Conditions						
Tstd:	and the second se			- E		RECA	LIBRATION	
Pstd:		mm Hg						1000
		еү					nnual recalibratio	
		er reading (in					Regulations Part !	The second s
		ter reading (	mm Hg)				, Reference Meth	
Ta: actual absolute temperature ("K)							ended Particulati re, 9.2.17, page 1	
a: actual ba								

ch Environmental, Inc.

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lage of Cleves, OH 45002

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

Location	:	ACL1	Calbration Date	:	19-Jun-19
Equipment no.	:	HVS014	Calbration Due Date	:	19-Aug-19

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T <sub>a</sub>		303	5	Kelvin	Pressure, P	a	1	009	mmHg
Orifice Transfer Standard Information									
Equipment No.		0005		Slope, m <sub>c</sub>	1.998	61	Intercept, bc	-0.00	882
Last Calibration Date		11-Jan-1	9		(Hx	r P <sub>a</sub> / 10	13.3 x 298 /	T <sub>a</sub> ) <sup>1/2</sup>	
Next Calibration Date		11-Jan-2	0		=	m <sub>c</sub> y	$\mathbf{A} \mathbf{Q}_{std} + \mathbf{b}_{c}$		
Calibration of TSP									
Calibration	Mar	nometer R	eading	C	۵ <sub>std</sub>	Contir	uous Flow	IC	
Point	Н (	inches of	water)	(m <sup>3</sup>	(m <sup>3</sup> / min.) Reco		order, W	(W(P <sub>a</sub> /1013.3x298	/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-	-axis	(	CFM)	Y-axis	5
1	1.4	1.4	2.8	0.	8330		35	34.636	i3
2	2.4	2.4	4.8	1.	0892		45	44.532	:4
3	3.5	3.5	7.0	1.	3145		50	49.480	14
4	4.4	4.4	8.8	1.	4733		56	55.418	1
5	5.2	5.2	10.4	1.	1.6012		59	58.386	;9
By Linear Regression of		•							
	Slope, m	=	30.5	553	Int	ercept, b =	= 9.	9233	
Correlation Co	pefficient*	=	0.99	956					-
Calibration	Accepted	=	Yes/	<del>\o</del> **					
					-				

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

:

:

\*\* Delete as appropriate.

Remarks :

Calibrated	by

Date

Henry Lau 19-Jun-19

Checked by

Date

Dean Chan

:

•

19-Jun-19



# Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL1	Calbration Date	:	16-Aug-19
Equipment no.	:	HVS014	Calbration Due Date	:	16-Oct-19

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T <sub>a</sub>		303	3	Kelvin <b>Pressure, P</b> a			1	003 mmH	lg
Orifice Transfer Standard Information									
Equipment No.		0005		Slope, m <sub>c</sub>	1.998	61	Intercept, bc	-0.00882	
Last Calibration Date		11-Jan-1	9		(H x	P <sub>a</sub> / 10	13.3 x 298 /	T <sub>a</sub> ) <sup>1/2</sup>	
Next Calibration Date		11-Jan-2	0		=	m <sub>c</sub> :	xQ <sub>std</sub> +b <sub>c</sub>		
				Calibratio	on of TSP				
Calibration	Mar	nometer R	eading	C	۵ <sub>std</sub>	Conti	nuous Flow	IC	
Point	Н (	H (inches of water)		(m <sup>3</sup>	/ min.) Reco		order, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /3	35.31)
	(up)	(down)	(difference)	X-	axis		(CFM)	Y-axis	
1	1.3	1.3	2.6	0.	8004		32	31.5732	
2	2.5	2.5	5.0	1.	1083		43	42.4265	
3	3.7	3.7	7.4	1.	3474		50	49.3331	
4	4.5	4.5	9.0	1.	4854		55	54.2664	
5	5.3	5.3	10.6	1.	6117		58	57.2264	
By Linear Regression of		•							
	Slope, m	=	31.8	042	Int	ercept, b	= 6.	5533	
Correlation Co	pefficient*	=	0.99	986					
Calibration	Accepted	=	Yes/	<del>\o</del> **					
					-				

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

\*\* Delete as appropriate.

Remarks :					
Calibrated by	:	Henry Lau	Checked by	:	Dean Chan
Date	:	16-Aug-19	– Date	:	16-Aug-19



# Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL2a	Calbration Date	:	19-Jun-19
Equipment no.	:	HVS011	Calbration Due Date	:	19-Aug-19

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition												
Temperature, T <sub>a</sub>		303	5	Kelvin	Pressure, P	a		009	mmHg			
Orifice Transfer Standard Information												
Equipment No.		0005		Slope, m <sub>c</sub>	1.998	61	Intercept, bc	-0.0	0882			
Last Calibration Date		11-Jan-1	9		(Hx	: P <sub>a</sub> / 10	13.3 x 298 /	'Τ <sub>a</sub> ) <sup>1/2</sup>				
Next Calibration Date		11-Jan-2	0		=	m <sub>c</sub>	$x Q_{std} + b_c$					
Calibration of TSP												
Calibration	Calibration Manometer Reading				۵ <sub>std</sub>	Conti	nuous Flow	IC				
Point	H (inches of water)		(m <sup>3</sup> / min.) Reco		order, W	(W(P <sub>a</sub> /1013.3x29	8/T <sub>a</sub> ) <sup>1/2</sup> /35.31)					
	(up)	(down)	(difference)	X-axis		(CFM)		Y-ax	is			
1	1.4	1.4	2.8	0.	8330		26	25.72	.98			
2	2.3	2.3	4.6	1.	0664		35	34.63	63			
3	3.4	3.4	6.8	1.	2956		45	44.53	24			
4	4.6	4.6	9.2	1.	5063		53	52.44	92			
5	5.5	5.5	11.0	1.	6466		58	57.39	173			
By Linear Regression of	Y on X											
	Slope, m	=	39.3	340	Int	ercept, b	= -6	.9882				
Correlation Coefficient* = 0.995				995								
Calibration	Accepted	=	Yes/	<del>\o</del> **								

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

\*\* Delete as appropriate.

Remarks :					
Calibrated by	:	Henry Lau	Checked by	:	Dean Chan
Date	:	19-Jun-19	Date	:	19-Jun-19



# Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL2a	Calbration Date	:	16-Aug-19
Equipment no.	: _	HVS011	Calbration Due Date	:	16-Oct-19

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition												
Temperature, T <sub>a</sub>		303	3	Kelvin	Pressure, P	a	1	1003 mmHg				
Orifice Transfer Standard Information												
Equipment No.		0005		Slope, m <sub>c</sub>	1.9986	61	Intercept, bc	-0.00882				
Last Calibration Date		11-Jan-1	9		(H x	P <sub>a</sub> / 10	)13.3 x 298 /	$(T_a)^{1/2}$				
Next Calibration Date		11-Jan-2	:0		=	m <sub>c</sub> :	x Q <sub>std</sub> + b <sub>c</sub>					
Calibration of TSP												
Calibration	Mar	nometer R	eading	C	Q <sub>std</sub>	Conti	nuous Flow	IC				
Point	H (inches of water)		(m <sup>3</sup>	(m <sup>3</sup> / min.) Reco		corder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)					
	(up)	(down)	(difference)	) <b>X</b> .	-axis		(CFM)	Y-axis				
1	1.5	1.5	3.0	0.	8595		26	25.6532				
2	2.2	2.2	4.4	1.	.0400		34	33.5465				
3	3.5	3.5	7.0	1.	.3106		42	41.4398				
4	4.5	4.5	9.0	1.	4854		54	53.2797				
5	5.6	5.6	11.2	1.	.6566		59	58.2130				
By Linear Regression of	Y on X											
	Slope, m	=	41.3	650		ercept, b	=	0.1236				
Correlation Coefficient* = 0.9				922	_							
Calibration Accepted = Yes/				No**	_							

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

\*\* Delete as appropriate.

Remarks :					
Calibrated by	:	Henry Lau	Checked by	:	Dean Chan
Date	:	16-Aug-19	– Date	:	16-Aug-19



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

### Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3) Environmental Monitoring Schedule September 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Sep	02-Sep	03-Sep	04-Sep	05-Sep	06-Sep	07-Sep
			24hr TSP	1hr TSP		
08-Sep	09-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
		24hr TSP	1hr TSP			
15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep
	24hr TSP	1hr TSP				24hr TSP (ALC2a)
22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
	24hr TSP (ACL1)					
	24111131 (AGE1)					
	1hr TSP				24hr TSP	1hr TSP (ALC2a)
29-Sep	30-Sep	01-Oct	02-Oct			
			1hr TSP (ACL1)			
		• • • • • • • • • • • • • • • • • • • •		-		

### Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3) Tentative Environmental Monitoring Schedule October 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Oct	02-Oct	03-Oct	04-Oct	05-Oct
				24hr TSP	1hr TSP	
06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct
			24hr TSP	1hr TSP		
13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct
		24hr TSP	1hr TSP			
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
	24hr TSP	1hr TSP				24hr TSP
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct		
	1hr TSP					



Appendix 5.2

Continuous Noise Monitoring Results and Graphical Presentations

Continuous Nois	so Monitoring	Data ACL3 (								
Normal Day 07:		06/9/19 13:01	City Hall) 63	12/9/19 7:31	48	18/9/19 14:01	61	24/9/19 8:31	66	28/9/19 15:01 67
02/9/19 7:01 02/9/19 7:31	61 61	06/9/19 13:31 06/9/19 14:01	63 63		62 62	18/9/19 14:31 18/9/19 15:01	64 63	24/9/19 9:01 24/9/19 9:31	66 67	28/9/19 15:31 65 28/9/19 16:01 71
02/9/19 8:01	63	06/9/19 14:31	66		62	18/9/19 15:31	64	24/9/19 10:01	68	28/9/19 16:31 68
02/9/19 8:31	67 63	06/9/19 15:01	63 63		62 61	18/9/19 16:01	67 66	24/9/19 10:31	67 67	28/9/19 17:01 67 28/9/19 17:31 67
02/9/19 9:01 02/9/19 9:31	63 63	06/9/19 15:31 06/9/19 16:01	63		61	18/9/19 16:31 18/9/19 17:01	68	24/9/19 11:01 24/9/19 11:31	66	28/9/19 17:31 67 28/9/19 18:01 68
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01/9/19 16:01 67 01/9/19 16:06 67	02/9/19 21:06 64 02/9/19 21:11 61	04/9/19 22:11 61 04/9/19 22:16 62	07/9/19 19:16 65 07/9/19 19:21 66	08/9/19 12:21 64 08/9/19 12:26 64	08/9/19 21:26 63 08/9/19 21:31 62
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01/9/19 20:36 61	03/9/19 21:41 58	05/9/19 22:46 60	08/9/19 7:51 59	08/9/19 16:56 66	09/9/19 22:01 64
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01/9/19 22:06 62	04/9/19 19:11 65	06/9/19 20:16 64	08/9/19 9:21 63	08/9/19 18:26 65	10/9/19 19:31 58

	Continuous Noise Monitoring 10/9/19 19:36 61 10/9/19 19:41 58	Data ACL3 (City Hall) 12/9/19 20:41 63 12/9/19 20:46 60	14/9/19 9:46 64 14/9/19 9:51 65	14/9/19 18:51 65 14/9/19 18:56 64	15/9/19 11:56 62 15/9/19 12:01 63	15/9/19 21:01 63 15/9/19 21:06 62
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NUME         NUME        NUME        NUME         N						
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						15/9/19 22:36 59
Number 2016         Co.         State Holm         al.         Hermin 2020         Co.         Hermin 1021         Ed.         Hermin 1021         Ed.         Hermin 1021         Ed.         Hermin 1021         Ed.         Hermin 1021						
10/01/02/201         50         13/01/3         10/01/02/201         60         15/01/01/201         60 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
0.0019         0.201         0.3         1.3019         0.6         1.5019         0.4         1.4019         1.221         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.41         0.6         1.5019         0.6         1	10/9/19 22:01 50	13/9/19 19:06 64	14/9/19 12:11 67	14/9/19 21:16 65	15/9/19 14:21 64	16/9/19 19:26 64
0.9419         0.241         0.941         0.2419         0.243         0.941         0.2540         0.9419         0.244         0.9419         0.244         0.9419         0.244         0.9419         0.244         0.9419						
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16919         2231         63         13919         1993         12919         1291         1291         129199         12919         12919						
1091122241         03         139111144         04         149111225         07         109191324         04         109112201         04         109112201         04         109112201         04         109112201         04         109112201         04         109112201         04         109112201         04         109112201         04         109112201         04         109112201         05         109111201         04         109112201         05         10911201         05						
UNM122246         G3         139/191051         66         140/191226         72         140/1912207         70         159/191566         64         169/19201         64           109/191226         64         140/191307         66         140/191221         64         159/191576         65         169/191576         65         169/191207         64         159/191276         65         169/191221         65         140/191317         66         140/191221         65         169/1912221         65         169/1912201         66         169/1912201         64         159/191230         66         169/1912201         66         169/191201         169/191201         169/19						
0001122:56         60         133/19 2010         64         143/19 12010         65         153/19 15:16         63         145/19 2011         64           111/101         101         60         133/19 2016         65         143/19 2016         65         153/19 12:16         64         143/19 2016         65         143/19 2016        <						
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11/10/10/12/1         69         13/0/19/22/36         63         14/0/19/22/36         63         15/0/19/54/1         62         15/0/19/23/31         63         14/0/19/22/31         63         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         64         15/0/19/23/31         15/0/19/23/31         63         15/0/19/23/31         64         15/0/19/23/31 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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11/10/1913/6         61         13/2/12/0.4         65         14/2/19/2.21         60         11/2/19/15.6         64         11/2/19/11.0						
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	Continuous Noise Monitoring 28/9/19 20:36 70 28/9/19 20:41 72	Data ACL3 (City Hall) 29/9/19 13:41 67 29/9/19 13:46 67	29/9/19 22:46 60 29/9/19 22:51 60	01/9/19 4:41 60 01/9/19 4:46 62	02/9/19 5:46 61 02/9/19 5:51 61	03/9/19 6:51 63 03/9/19 6:56 63
Approx 1         Approx 1640         Get         Biol 1600         Biol 1600         Biol 1600         Control 161         Control 161        Control 161        Control 161<	28/9/19 20:46 73	29/9/19 13:51 68	29/9/19 22:56 61	01/9/19 4:51 59	02/9/19 5:56 62	03/9/19 23:01 59
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Section 2716         06         238/116 1621         71         308/112 1226         00         01/112 1221         90         303/110 133         97         04/4/91 131         95           258/116 731         64         238/116 1635         71         308/112 123         54         303/110 133         57         64         303/110 133         57         64         303/110 133         57         64         303/110 133         57         64         303/110 133         57         64         303/110 133         57         64         44/91 134         57         64         44/91 134         57         64         44/91 134         57         64         44/91 134         64         57         64         64         44/91 134         64         65         44/91 134         66         44/91 134         66         44/91 134         66         44/91 134         66         44/91 134         66         44/91 134         67         66         44/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67         64/91 134         67 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
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28/0719.501         65         29/0719.506         62         07/0719.001         60         02/0719.111         58         03/0719.211         57         04/0713.21         60           20/0719.506         66         29/0719.111         58         03/0719.216         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         57         04/0713.21         58         00/0719.246         57         04/0713.21         57           28/0719.93.6         66         29/0719.13.1         69         07/0719.03.6         57         02/0719.146         56         03/0719.246         57         04/0713.345         55           29/0719.93.6         66         29/0719.13.66         62         07/0719.048         56         02/0719.146         56         03/0719.206         56         04/0719.411         57           29/0719.506         66         29/0719.106         62         07/0719.016         57         02/0719.211         56         03/0719.206         56         04/0719.411         57			Night time: 23:00-07:00			
28/0719         61         28/0719         63         01/0719110         01/0719110         01	29/9/19 9:01 65	29/9/19 18:06 62	01/9/19 0:01 60	02/9/19 1:06 58	03/9/19 2:11 57	04/9/19 3:16 60
220/19 9:16         66         220/19 12:1         63         01/01 9:26         57         04/01 3:33         61           220/19 9:26         66         280/19 18:31         68         01/01 9:25         57         03/01 9:23         57         04/01 3:33         61           220/19 9:26         66         280/19 18:31         68         01/01 9:25         56         04/01 3:34         58           220/19 9:41         66         280/19 18:46         62         01/01 9:04         57         02/01 91:36         56         03/01 9:25         56         04/01 3:36         57           220/19 9:46         66         280/19 18:46         62         01/01 9:06         58         02/01 91:56         50         03/01 9:26         57         04/01 9:06         52           220/19 9:56         66         280/19 18:56         52         03/01 9:36         55         04/01 9:416         55           220/19 9:16         66         280/19 19:16         56         03/01 9:36         56         04/01 9:416         57           220/19 10:16         62         290/19 10:16         57         04/01 9:436         57         04/01 9:436         57           220/19 10:16         62         01/01 9:116 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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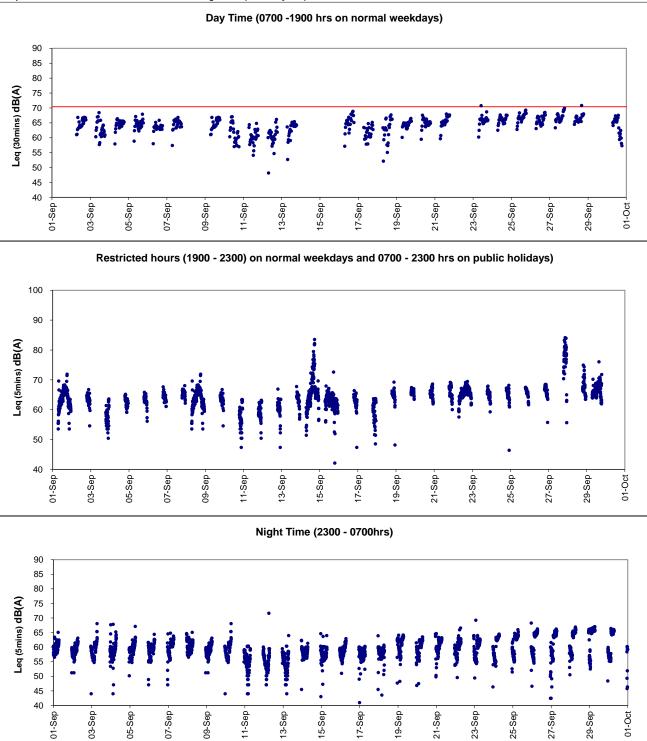
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Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: ACL1 - City Hall

# Report on 24-hour TSP monitoring Action Level (µg/m3) - 163 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper no.	Filter Weig	ht, g	Elapse Tim	ie, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition		Initial	Final	Initial	Final	Time, hr	Initial, $Q_{si}$	Final, $\mathbf{Q}_{\mathrm{sf}}$	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
04-Sep-19	08:00	Rainy	ACL1_24hr_001051	2.7456	2.7744	6089.81	6113.81	24.00	0.93	0.93	0.93	1343	21.4
10-Sep-19	08:00	Cloudy	ACL1_24hr_001068	2.7377	2.7693	6113.81	6137.81	24.00	0.93	0.93	0.93	1340	23.6
16-Sep-19	08:00	Rainy	ACL1_24hr_001492	2.8042	2.8682	6140.81	6164.81	24.00	0.93	0.93	0.93	1341	47.7
23-Sep-19	16:15	Fine	ACL1_24hr_000151	2.6689	2.7432	6189.97	6213.97	24.00	1.06	1.06	1.06	1526	48.7
27-Sep-19	08:00	Fine	ACL1_24hr_000154	2.7098	2.8018	6213.97	6237.97	24.00	0.94	0.94	0.94	1351	68.1

Report on 1-hour TSP monitoring Action Level (μg/m3) - 460 Limit Level (μg/m3) - 500

Date	Sampling	Weather	Filter paper no.	Filter Weig	ht, g	Elapse Tim	ne, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition		Initial	Final	Initial	Final	Time, hr	Initial, $\mathbf{Q}_{\mathrm{si}}$	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
05-Sep-19	08:05	Rainy	ACL1_1hr_1_001033	2.7827	2.7846	6086.81	6087.81	1.00	0.93	0.93	0.93	56	34.0
05-Sep-19	09:07	Rainy	ACL1_1hr_2_001035	2.7868	2.7880	6087.81	6088.81	1.00	0.93	0.93	0.93	56	21.5
05-Sep-19	10:11	Rainy	ACL1_1hr_3_001042	2.7452	2.7465	6088.81	6089.81	1.00	1.05	1.05	1.05	63	20.6
11-Sep-19	08:30	Cloudy	ACL1_1hr_1_001091	2.8045	2.8062	6137.81	6138.81	1.00	0.93	0.93	0.93	56	30.4
11-Sep-19	09:34	Cloudy	ACL1_1hr_2_001096	2.7758	2.7771	6138.81	6139.81	1.00	0.93	0.93	0.93	56	23.3
11-Sep-19	10:39	Cloudy	ACL1_1hr_3_001408	2.7908	2.7950	6139.81	6140.81	1.00	0.93	0.93	0.93	56	75.2
17-Sep-19	09:10	Cloudy	ACL1_1hr_1_000134	2.7001	2.7033	6164.81	6165.81	1.00	0.93	0.93	0.93	56	57.2
17-Sep-19	10:20	Cloudy	ACL1_1hr_2_000137	2.6574	2.6602	6165.81	6166.81	1.00	0.93	0.93	0.93	56	50.1
17-Sep-19	13:00	Cloudy	ACL1_1hr_3_000140	2.6590	2.6629	6166.81	6167.81	1.00	0.93	0.93	0.93	56	69.8
23-Sep-19	13:00	Fine	ACL1_1hr_1_000127	2.6603	2.6657	6186.97	6187.97	1.00	1.06	1.06	1.06	64	85.0
23-Sep-19	14:02	Fine	ACL1_1hr_2_000147	2.6826	2.6873	6187.97	6188.97	1.00	1.06	1.06	1.06	64	74.0
23-Sep-19	15:10	Fine	ACL1_1hr_3_000150	2.6648	2.6688	6188.97	6189.97	1.00	1.06	1.06	1.06	64	63.0
02-Oct-19	08:30	Fine	ACL1_1hr_1_000155	2.6489	2.6543	6237.97	6238.97	1.00	0.94	0.94	0.94	56	96.1
02-Oct-19	09:32	Fine	ACL1_1hr_2_000156	2.7119	2.7154	6238.97	6239.97	1.00	0.94	0.94	0.94	56	62.3
02-Oct-19	10:34	Fine	ACL1_1hr_3_000157	2.6867	2.6912	6239.97	6240.97	1.00	0.94	0.94	0.94	56	80.1

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Location: ACL2a - Contractor HK/2012/08 Site office

Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 187.3 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter paper no.	Filter Weig	ht, g	Elapse Tim	ie, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition		Initial	Final	Initial	Final	Time, hr	Initial, $\mathbf{Q}_{\mathrm{si}}$	Final, $Q_{sf}$	Average	Volume, m	μg/m <sup>3</sup>
04-Sep-19	08:00	Rainy	ACL2a_24hr_001061	2.7648	2.8099	11294.78	11318.78	24.00	1.17	1.17	1.17	1679	26.9
10-Sep-19	08:00	Cloudy	ACL2a_24hr_001067	2.7570	2.7693	11321.78	11345.78	24.00	1.21	1.21	1.21	1744	7.1
17-Sep-19	11:30	Rainy	ACL2a_24hr_001471	2.7791	2.8983	11351.78	11375.78	24.00	1.21	1.21	1.21	1746	68.3
21-Sep-19	08:00	Fine	ACL2a_24hr_001441	2.7944	3.0398	11375.78	11399.78	24.00	1.12	1.12	1.12	1614	152.1
27-Sep-19	08:00	Fine	ACL2a_24hr_001411	2.7958	2.9731	11402.78	11426.78	24.00	1.22	1.22	1.22	1752	101.2

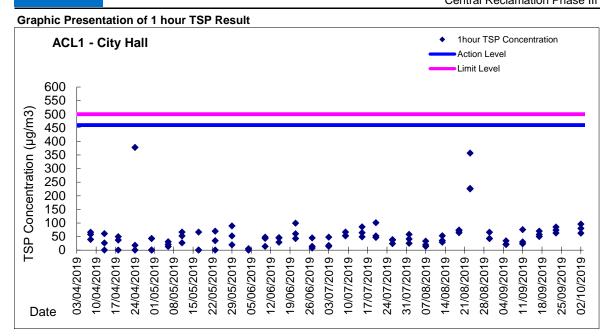
Report on 1-hour TSP monitoring Action Level ( $\mu$  g/m3) - 300.1

Limi	t Level	(μ	g/m3)	-	500	
Limi	t Level	(μ	g/m3)	-	500	

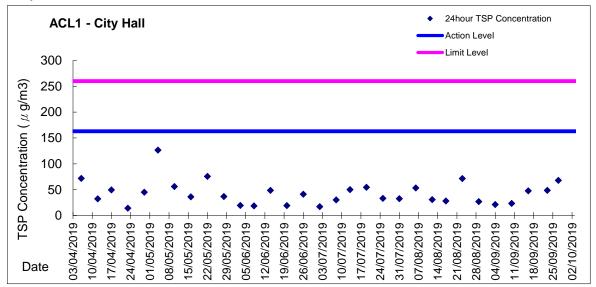
Date	Sampling	Weather	Filter paper no.	Filter Weig	ht, g	Elapse Tim	ie, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition		Initial	Final	Initial	Final	Time, hr	Initial, $\mathbf{Q}_{\mathrm{si}}$	Final, $Q_{sf}$	Average	Volume, m	μg/m <sup>3</sup>
05-Sep-19	08:01	Rainy	ACL2a_1hr_1_001034	2.7507	2.7518	11318.78	11319.78	1.00	1.17	1.17	1.17	70	15.7
05-Sep-19	09:02	Rainy	ACL2a_1hr_2_001041	2.7622	2.7634	11319.78	11320.78	1.00	1.17	1.17	1.17	70	17.2
05-Sep-19	10:05	Rainy	ACL2a_1hr_3_001050	2.7835	2.7854	11320.78	11321.78	1.00	1.17	1.17	1.17	70	27.2
11-Sep-19	08:15	Cloudy	ACL2a_1hr_1_001090	2.7607	2.7631	11345.78	11346.78	1.00	1.21	1.21	1.21	73	33.0
11-Sep-19	09:17	Cloudy	ACL2a_1hr_2_001095	2.7926	2.7945	11346.78	11347.78	1.00	1.21	1.21	1.21	73	26.1
11-Sep-19	10:19	Cloudy	ACL2a_1hr_3_001407	2.8265	2.8308	11347.78	11348.78	1.00	1.21	1.21	1.21	73	59.2
17-Sep-19	08:00	Cloudy	ACL2a_1hr_1_001453	2.8049	2.8122	11348.78	11349.78	1.00	1.21	1.21	1.21	73	100.4
17-Sep-19	09:02	Cloudy	ACL2a_1hr_2_001459	2.8052	2.8126	11349.78	11350.78	1.00	1.21	1.21	1.21	73	101.8
17-Sep-19	10:05	Cloudy	ACL2a_1hr_3_001465	2.8101	2.8180	11350.78	11351.78	1.00	1.21	1.21	1.21	73	108.7
23-Sep-19	08:49	Fine	ACL2a_1hr_1_001010	2.7660	2.7738	11399.78	11400.78	1.00	1.12	1.12	1.12	67	115.6
23-Sep-19	09:51	Fine	ACL2a_1hr_2_001423	2.8072	2.8084	11400.78	11401.78	1.00	1.12	1.12	1.12	67	17.8
23-Sep-19	13:00	Fine	ACL2a_1hr_3_001417	2.8192	2.8273	11401.78	11402.78	1.00	1.12	1.12	1.12	67	120.0
28-Sep-19	08:30	Fine	ACL2a_1hr_1_001912	2.8650	2.8834	11426.78	11427.78	1.00	1.22	1.22	1.22	73	252.2
28-Sep-19	09:32	Fine	ACL2a_1hr_2_001916	2.8671	2.8791	11427.78	11428.78	1.00	1.22	1.22	1.22	73	164.5
28-Sep-19	10:24	Fine	ACL2a_1hr_3_001921	2.8496	2.8655	11428.78	11429.78	1.00	1.22	1.22	1.22	73	217.9



Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Central Reclamation Phase III

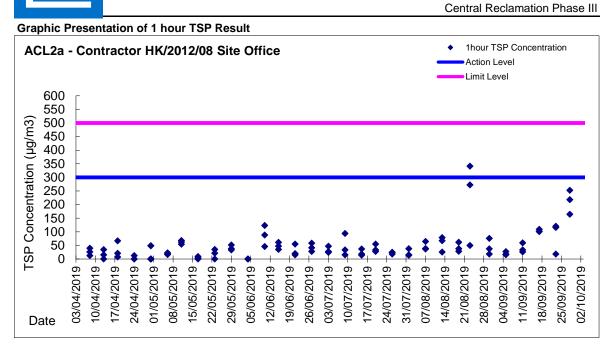


### **Graphic Presentation of 24 hour TSP Result**

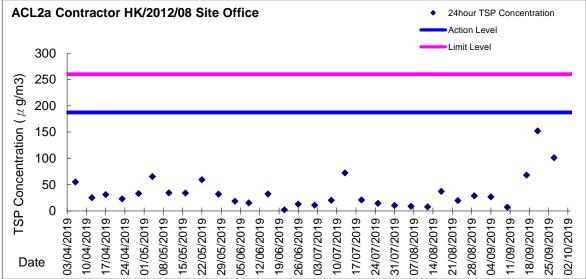


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Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass



#### **Graphic Presentation of 24 hour TSP Result**





Appendix 6.1

**Event Action Plans** 



Central Reclamation Phase III : Environmental Monitoring and Audit - Event and Action Plan for Air and Noise Quality

		Event and Action Plan for Air Quality											
Event	Action												
	ET Leader	IC(E)	ER	Contractor									
Action Level - Exceedance for one sample	Identify source     Inform IC(E) and ER     Repeat measurement to confirm finding     Increase monitoring frequency to daily	Check monitoring data submitted by ET     Check Contractor's working method	1. Notify Contractor	<ol> <li>Rectify any unacceptable practice</li> <li>Amend working methods if appropriat</li> </ol>									
Action Level - Exceedance for two or more consecutive samples	Identify source     Inform IC(E) and ER     Repeat measurement to confirm finding     Increase monitoring frequency to daily     Discuss with IC(E) and Contractor on     remedial actions     If exceedance continues, arrange     meeting with IC(E) and ER     If exceedance stops cease additional	<ol> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise the ER on the effectiveness of the proposed remedial measures</li> <li>Supervise the implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol> <li>Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>									
monitoring           Limit Level - Exceedance for one sample         1.         Identify source           2.         Inform ER and EPD         3.           3.         Repeat measurement to confirm findings           4.         Increase monitoring frequency to dai           5.         Assess effectiveness of Contractor's remedial actions and keep IC(E), EP and ER informed of the results	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 the implementation of     remedial measures	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	Take immediate action to avoid furthe exceedance     Submit proposal for remedial actions IC(E) within 3 working days of notification     Implement the agreed measures										
Limit Level - Exceedance for two or more consecutive samples	Notify IC(E), ER, Contractor and EPD     Identify source     Repeat measurements 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 IC(E) and ER to     discuss the remedial actions to be     taken     Assess effectiveness of Contractor's     remedial actions and keep IC(E), EPD     and ER informed of the results     If exceedance stops, cease additional     monitoring	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly</li> <li>Supervise the implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented</li> <li>Ensure remedial measures properly implemented</li> <li>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</li> </ol>	<ol> <li>Take immediate action to avoid furthe exceedance</li> <li>Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Resubmit proposals if problem still no under control</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated</li> </ol>									



# Central Reclamation Phase III : Environmental Monitoring and Audit - Event and Action Plan for Air and Noise Quality

Event	Action												
	ET Leader	IC(E)	ER	Contractor									
Action Level is reached  1. Notify IC(E) and 2. Carry out inves 3. Report the resu the IC(E) and C 4. Discuss with the formulate reme-	<ol> <li>Notify IC(E) and Contractor</li> <li>Carry out investigation</li> <li>Report the results of the investigation to the IC(E) and Contractor</li> <li>Discuss with the Contractor and formulate remedial measures</li> </ol>	<ol> <li>Discuss amongst ER, ET and Contractor on the potential remedial actions</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly</li> <li>Supervise the implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Require Contractor to propose remedial measures for the analyzed noise problem</li> <li>Ensure remedial measures are properly implemented</li> </ol>	<ol> <li>Submit noise mitigation proposal to IC(E</li> <li>Implement noise mitigation proposals</li> </ol>									
Limit Level is reached	<ol> <li>Notify IC(E), ER, EPD and Contractor</li> <li>Identify source</li> <li>Repeat measurement to confirm findings</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented</li> <li>Inform IC(E), ER and EPD the causes &amp; actions taken for the exceedances</li> <li>Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results</li> <li>If exceedance stops cease additional monitoring</li> </ol>	<ol> <li>Discuss amongst ER, ET and Contractor on the potential remedial actions</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly</li> <li>Supervise the implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Require Contractor to propose remedial measures for the analyzed noise problem</li> <li>Ensure remedial measures are properly implemented</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion or work until the exceedance is abated</li> </ol>	Take immediate action to avoid further exceedance     Submit proposals for remedial actions to IC(E) within 3 working days of notification     Implement the agreed proposals     Pesubmit proposals if problem still not under control     Stop the relevant portion of works as determined by the ER until the exceedance is abated									



EVENT		ACTIC	DN	
	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)

Central Reclamation Phase III: Environmental Monitoring and Audit - Event and Action Plan for Water Quality



Event		Act	tion	
	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)

Central Reclamation Phase III: Environmental Monitoring and Audit - Event and Action Plan for Water Quality



Appendix 6.2

Summary for Notification of Exceedance



Ref no.	Date	Tide	Location	Parameter (Unit)	Measured	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-	-



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
150211	21/1/2015	EPD complaint (EPD Ref.: H04/RS/000171 6-15) received by ET on 11 February 2015	Construction site opposite to CITIC Tower	Construction dust was emitted from a construction site opposite to CITIC Tower	According to the relevant site records, trench grabbing for D-wall construction and socket H-pile construction were conducted at the concerned location on 21 January 2015. Dust screen for socket H-pile construction, maintenance of site haul road in wet condition and water spraying at vehicle entrance/exit points of HK/2012/08 Contractor site office and Portion I were implemented by the Contractor of HK/2012/08 near the concerned location on 21 January 2015.	Closed
					In addition, no environmental deficiency related to dust	
					mitigation was identified at the concerned location during weekly environmental inspections conducted on 27 Jan, 3 and 10 Feb 2015 and dust mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place and no dust related impact from the construction works at the concerned location was observed.	
					Meanwhile, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.	
					Based on reviewing relevant impact monitoring data,	
					elevated TSP were recorded at monitoring stations across Central to Wan Chai West area despite a non- Project related exceedance was recorded at nearby monitoring station ACL2a (Contractor HK/2012/08 Site Office) on 21 January 2015 and was considered to be contributed by ambient air pollutant.	
			The site condition under Contract HK/2012/08 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed at the concerned location.			
					Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150703	3/7/2015	EPD complaint (EPD Ref.: H05/RS/000162 15-15) received by ET on 03 July 2015	West of HKCEC outside Lung King Street	Dark smoke was observed from a derrick barge in yellow color for reclamation work at location to the west of HKCEC outside Lung King Street	According to the relevant site records under Contract HK/2012/08, one derrick barge (Chang Sheng 306) in yellow color was conducting material transfer at a near shore location opposite to Fleet Arcade on 30 June 2015 around noon-time under HK/2012/08 and the concerned derrick barge was towed away for maintenance on the same date.	Closed
					Follow-up inspection was conducted during weekly environmental inspection on 7 July 2015, no dark smoke was observed from the concerned derrick barge (Chang Sheng 306). Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public.	
					Based on the review on relevant record and follow up site inspection, the condition of the concerned derrick barge was considered generally in order and no dark smoke was observed. In view of the public concern, the Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipment are used on site to avoid potential dark smoke emission affecting nearby public.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150917	17/9/2015	A public complaint regarding water quality referred by EPD was received by ET on 17 September 2015	Central and Wan Chai Reclamation coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan Chai, Hong Kong)	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan Chai, Hong Kong)	Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened. In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160804	4/8/2016	A public complaint referred by EPD was received by ET on 04 August 2016 (Case Ref.: H05/RS/0001 9364-16).	Temporary Barging Facility outside Lung Wo Road	Muddy water discharge was found at the temporary barging facility outside Lung Wo Road on 03 August 2016.	Based on the site records confirmed by RSS, the concerned temporary barging facility outside Lung Wo Road was maintained and operated by non- WDII Project and no construction activity was conducted by the Contractor of HK/2012/08 at the location around the concerned temporary barging facility on 03 August 2016. Nevertheless, in view of the public concern, the Contractor of HK/2012/08 was reminded to maintain the bunding along site boundary for protection against potential surface runoff and maintain proper site drainage collection of construction effluent to avoid any potential water quality concern.	Closed.



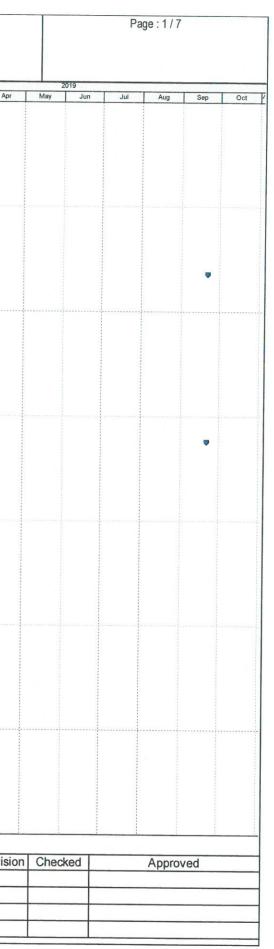
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
180625	5/6/2018	A public complaint referred by EPD was received by	Site outside Lung Wo Road	Muddy water discharge was found at the site outside Lung Wo Road on 5 June 2018 afternoon.	Based on the site records confirmed by RSS, installation of metal formwork at seawall was carried out on 5 June 2018 afternoon and mitigation measure including placing rock fill material on slope surface was implemented at the concerned location to reduce surface runoff.	Closed.
		ET on 25 June 2018 (Case Ref.: H05/RS/0000 15459-18).			Follow up site inspection was conducted by the Environmental Team on 26 June 2018, no muddy water discharge or surface runoff related water quality impact was observed at construction area under HK/2012/08 near the concerned area	
					Nevertheless, in view of the public concern, the Contractor of HK/2012/08 was reminded to provide addition tarpaulin covering to the slope surface along the seawall around the concerned location to reduce the potential surface runoff and maintain regular checking on the embankment condition to ensure no gap / void to avoid potential seepage / surface runoff to nearby water.	



Appendix 10.1

Construction Programme of Individual Contracts

						C		Chai	Develo	o. HK/20 oment P ass at W	hase II		st				
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan Feb Mar	Apr May	2 Jun	Jul	Aug Sep	Oct	Nov	Dec	Jan	Feb	Mar	
	Revised Works Programme Rev.12.0(DD 20	November 20	017)											Jan	reo	Midi	-
	nd Milestone Dates																
A Charles and a second s	Works Completion (Included Not Granted EOT En	ititlement of 1	he Contracto	r)									-				
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 Sec	tions 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 &	0		21-Sep-18	0%												
Dredging an	Preservation d Reclamation																
Marine Worl	Construction				Signal and												
Zone CRIII			CENSION AND	REPRESE													
Seawall Con	struction - Zone CRIII																
Zone CRIII S	eawall- 2nd Stage																
Seawall 2 &	12				STATES												
MAR21371	Zone CRIII - seawall 2 & 12 - Backfilling remaining portion	0	19-Jan-18 A	27-Jan-18 A	100%												
Zone D	(type A, geotextile and filter)	-															
Seawall Con	struction - Zone D																
Seawall 10 8	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%												
	ection Completion	AND	10 10 10	19 1101 10	070	_											
Construction																	
	- Road A2, A4 & A5																
	Utilities - Section 1 (L1806 - L1801)																
Data Date:	Current Milestone     Actual Work														Date		Revis
20-Feb-18	Critical Remaining Work					ated Works Pr								20	0-Feb-1	18 12	<u> </u>
	Remaining Work				(Ref	o Rev.12 as of	f 20 Feb	urary	2018)								
	Remaining Level of Effort																



								Ce		n Cha	ontrac ai Deve Chai By	lopme	nt Pha	ase II	Wes	t							Ра	ge:2/7		
ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar A	Apr May	Jun	2018	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	2019 Jun	Jul	Aug	Sep	Oct
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%												oun	100	mui		ividy	Juli	Jui	Aug	Seb	000
SIIIA10293	Sec III A - section 1 carriageway - sewerage pipe from M/H	6	05-Feb-18 A	26-Feb-18	0%			•																		
SIIIA10294	F8B - F8A (night time) Sec III A - section 1 carriageway - sewerage pipe from M/H	8	17-Jan-18 A	28-Feb-18	27.27%	-	-																			
SIIIA10295	F8A - F8 Sec III A - carriageway - works prrior TTA stage 5:	7	18-Jan-18 A	27-Feb-18	0%																					
SIIIA10298	excavation and duct laying of TCSS and public lighting Sec III A - section 1 carriageway - works prrior TTA stage	5	28-Feb-18	05-Mar-18	0%																					
	5: road kerb																									
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%			- I	-																	
SIIIA10310a	Sec III A - section 1 carriageway - TTA stage 5: remaining	12	19-Mar-18	04-Apr-18	0%				-																	
SIIIA10310b	sewerage pipe for M/H F8A - M/H F8 Sec III A - section 1 carriageway - TTA stage 5: remaining	18	06-Apr-18	26-Apr-18	0%																					
SIIIA10310c	sewerage pipe for M/H F8A - M/H F8B Sec III A - section 1 carriageway - TTA stage 5: SR1	5	19-Mar-18	23-Mar-18	0%																					
	at-grade road- remove sheetpile at U-trough west								_																	
	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	14	19-Jun-18	05-Jul-18	0%																					
SIIIA10312	at-grade road - laying asphalt with transition slab Sec III A - roadwork and utilities section 1 carriageway -	15	19-Mar-18	09-Apr-18	0%																					
SIIIA10312a	Drainage works (L2202 - L2201) Sec III A - roadwork and utilities section 1 carriageway -	15	10-Apr-18	26-Apr-18	0%															2 2 2 2						
SIIIA10312b	Drainage works (L1805 - L1801) Sec III A - roadwork and utilities section 1 carriageway -	12	27-Apr-18	11-May-18	0%																					
SIIIA10313	Drainage works (L1805-1807) Sec III A - roadwork and utilities section 1 carriageway -	14	07-May-18	23-May-18	0%																					
	gully pipe (L1807 - L1801)																									
SIIIA10320	Sec III A - roadwork and utilities section 1 carriageway - fresh watermain	7	24-May-18	31-May-18	0%																					
SIIIA10340	Sec III A - roadwork and utilities section 1 carriageway - utilities: HEC (80m) along carriageway	14	01-Jun-18	16-Jun-18	0%																					
SIIIA10360	Sec III A - roadwork and utilities section 1 carriageway - road kerb & formation	14	19-Jun-18	05-Jul-18	0%																					
SIIIA10400	Sec III A - roadwork and utilities section 1 carriageway - black top	7	06-Jul-18	13-Jul-18	0%																					
SIIIA10420	Sec III A - Implementation of TTA Stage 7P (Closure of	1	14-Jul-18	14-Jul-18	0%						1															
SIIIA10440	U-turn at Expo Drive) Sec III A - roadwork and utilities section 1 carriageway :	10	16-Jul-18	26-Jul-18	0%						_															
SIIIA10460	breaking existing asphalt Sec III A - roadwork and utilities section 1 carriageway: road	14	27-Jul-18	11-Aug-18	0%																					
SIIIA10480	kerb and formation Sec III A - roadwork and utilities section 1 carriageway :	10	13-Aug-18	23-Aug-18	0%																					
SIIIA10500	black top												_													
	Sec III A - roadwork and utilities 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 utilities 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 utilities section 3 carriageway -	0	20-Jan-18 A	07-Feb-18 A	100%																					
SIIIA12790	utilities: HEC ducting (60m) & crossroad duct (PCCW & HGC) Sec III A - roadwork and utilities section 3 carriageway -	17	08-Feb-18 A	10-Mar-18	0%																					
SIIIA12810	road kerb & formation Sec III A - roadwork and utilities section 3 carriageway -	7	12-Mar-18	19-Mar-18	0%																					
	black top Utilities - Section 6 (L1102 - L1411)																									
SIIIA13399		0	12 100 10 4	26 br 10 4	10004																					
	Sec III A - roadwork and utilities section 6 carriageway - gully pipe (L1101 -L1102)	0	12-Jan-18 A	26-Jan-18 A	100%																					
SIIIA13444	Sec III A - roadwork and utilities section 6 carriageway - watermain (road crossing)	0	27-Jan-18 A	03-Feb-18 A	100%																					
SIIIA13445	Sec III A - roadwork and utilities section 6 carriageway - utilities: crossed duct(HEC, HGC, PCCW)	13	05-Feb-18 A	06-Mar-18	0%			-																		

					CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West															
vity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan Fet			2018					1						2
SIIIA13450	Sec III A - roadwork and utilities section 6 carriageway -	18	07-Mar-18	27-Mar-18	0%	Jan Pel	b Mar Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
SIIIA13470	road kerb & formation Sec III A - roadwork and utilities section 6 carriageway -	7	28-Mar-18	09-Apr-18	0%		<u> </u>													
SIIIA13570	black top Achievement of Section IIIA of the Works	0		08-Sep-18	0%							•								
	emaining At-Grade Road & Road P2																			
																			- 1	
Roadwork &																				
Section 1 (L1	1504 - 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	15	20-Feb-18	08-Mar-18	0%		<u> </u>													
SV12462	(L1902 - L1900) Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 -	6	09-Mar-18	15-Mar-18	0%															
SV12464	L1900) Sec V - Roadwork & Utilities Section 1 - temp. reinstatement	14	16-Mar-18	04-Apr-18	0%															
SV12466	to match with existing Expo Drive Sec V - Section 1 - Modification to 2nd stage ITA (V.O. 50) :	1	14-Jul-18	14-Jul-18	0%															
	closure of northbound and maintain one lane at southbound																			
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	3	13-Aug-18	15-Aug-18	0%						8									
SV12524	of northbound and southbound of Expo Drive Sec V - Section 1 - Northbound & Southbound of Expo Drive :	14	16-Aug-18	31-Aug-18	0%															
SV12526	breaking asphalt Sec V - Section 1 - Northbound & Southbound of Expo Drive :	14	01-Sep-18	17-Sep-18	0%															
SV12528	road kerb & formation Sec V - Section 1 - Northbound & Southbound of Expo Drive :	7	18-Sep-18	26-Sep-18	0%							_								
	black top											_								
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 ( L	1510 - 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	13	31-Jan-18 A	06-Mar-18	0%															
SV12692	top 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:	16	20-Mar-18	11-Apr-18	0%															
	TCSS																			
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	12-Apr-18	03-May-18	0%															
Section 3 ( C	ulvert 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	21	27-Mar-18	24-Apr-18	0%															
Section 4 (K	block 1106 - Culvert L)				-															
SIV12282	Sec V - Roadwork & Utilities Section 4 Carriageway -	10	20-Feb-18	02-Mar-18	0%															
SIV12300	Drainage Works (L1311 - Culvert L, L1201 - Culvert L) Sec V - Roadwork & Utilities Section 4 Carriageway - Gully	7	03-Mar-18	10-Mar-18	0%															
	pipe (L1301 - Culvert L, L1201 - Culvert L)																			
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	10	18-Apr-18	28-Apr-18	0%		-													
SIV12340	top : between culvert K and culvert L Sec V - Roadwork & Utilities Section 4 Carriageway - Black	7	20-Feb-18	27-Feb-18	0%															
SIV12422	top : at west of culvert K Sec V - Roadwork & Utilities Section 4 footpath - Utilities :	20	20-Feb-18	14-Mar-18	0%															
	TCSS																			
SIV12440	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW	8	15-Mar-18	23-Mar-18	0%															

			Pa	age:3/7		
		2019	11-124			
Apr	May	Jun	Jul	Aug	Sep	Oct

					CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West													Page : 4 / 7									
ity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar	Apr	May	Jun	2018 Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	2019 Jun	Jul	Aug	Sep	Oct
SIV12460	Sec V - Roadwork & Utilities Section 4 footpath - Paving	22	24-Mar-18	23-Apr-18	0%					incej			ring	oop	001			our	100		, interest	indy	bui	Uui	nug	ocp	oci
SV10300	block Achievement of Section V of the Works	0		26-Sep-18	0%									9													
Section IV - S	ip Road 3																										
Roadwork &																											
	6608 - 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%				<b></b>																		
SIV11752	Sec IV - sign gantry DS21 footing (type 3): footing structure	13	04-Apr-18	19-Apr-18	0%					2 2 2 2 2 2 2 3																	
SIV11753	Sec IV - sign gantry DS20: install steel frame of gantry D20	14	15-Aug-18	30-Aug-18	0%																						
SIV11750	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	0	09-Dec-17 A	26-Jan-18 A	100%					2 2 2 2 2																	
	Drainage Works (L1607 - L1601)	0																									
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 -	7	17-May-18	25-May-18	0%																						
SIV11780	Gully pipe (L2004) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	18	26-May-18	15-Jun-18	0%						-																
SIV11800	Watermain Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	14	16-Jun-18	04-Jul-18	0%																						
SIV11830	Utilities : TCSS crossroad duct Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway	24	05-Jul-18	01-Aug-18	0%																						
	- Road kerb & formation												_														
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 -	17	30-Jul-18	17-Aug-18	0%																						
Section 2 ( L	paving block 2301 - L2103)																										
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	0	28-Dec-17 A	23-Jan-18 A	100%																						
SIV11960	Gully pipe (L2301-L2013, L1608-L1609) Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	0	24-Jan-18 A	03-Feb-18 A	100%																						
SIV12010	Watermain Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	20	05-Feb-18 A	14-Mar-18	0%		-							-													
	Road kerb & formation	7																									
SIV12020	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Black top	/	15-Mar-18	22-Mar-18	0%									ļ				ļ						ļ			
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 ( N	//H1.6 - L2301)																										
SIV12092	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway	38	28-Dec-17 A	09-Apr-18	35.59%				-																		
SIV12096	Drainage Works (M/H1.7 - L2301) Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	0	29-Nov-17 A	24-Jan-18 A	100%																						
SIV12102	M1.7-M1.6: construct manholes Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway	0	25-Jan-18 A	08-Feb-18 A	100%					-				3 4 9 8													
	M1.7-M1.6: demolish existing seawall	- 10		02-Mar-18	0%																						
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: ELS		09-Feb-18 A																								
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%					-																	

#### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West Activity ID ctivity Nan emaining Dur Early Start Early Finis Activity % Complete Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr SIV12121 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway 16-May-18 23-May-18 0% 6 Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane STV12122 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 -32 10-Apr-18 17-May-18 0% Gully pipe (M/H 1.7 - L2301) SIV12150 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -14 18-May-18 04-Jun-18 0% Road kerb Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -SIV12155 10 05-Jun-18 15-Jun-18 0% formation SIV12160 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway 7 16-Jun-18 25-Jun-18 0% Black top SIV12170 Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -21 10-May-18 04-Jun-18 0% Utilities: TCSS SIV12180 Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U 10 05-Jun-18 15-Jun-18 0% channel SIV12220 Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -25 16-Jun-18 17-Jul-18 0% Paving block 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 -48 08-1an-18 A 20-Apr-18 18.64% Drainage Works (Culvert L -MH1.7) Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway : SVII11620 3 21-Apr-18 24-Apr-18 0% traffic diversion at Lung King Street SVII11640 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 27 25-Apr-18 28-May-18 0% -Gully pipe (Culvert L -MH1.7) SVII11650 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 29-May-18 05-Jun-18 0% TCSS duct SVII11654 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 14 06-Jun-18 22-Jun-18 0% road kerb & formation SVII11660 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 6 23-lun-18 29-Jun-18 0% Black top SVII11680 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U 14 29-May-18 13-Jun-18 0% channel SVII11700 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -14 14-Jun-18 30-Jun-18 0% utilities: TCSS SVII11720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -14 03-Jul-18 18-Jul-18 0% naving block **Retaining Wall RW5 Construction** SVII10660 Sec VII - Retaining Wall RW5 (bay 1) - construct base slab 22 20-Mar-18 18-Apr-18 0% Contraction of the and wall SVII10680 Sec VII - Retaining wall RW5 (bay 2) - construct base slab 22 19-Apr-18 15-May-18 0% Concernant of and wall Sec VII - Retaining wall RW5 (bay 3) - construct base slab SVII10800 22 20-Mar-18 18-Apr-18 0% and wall SVII10820 Sec VII - Retaining wall RW5 (bay 4) - construct base slab 22 19-Apr-18 15-May-18 0% and wall 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 / 15 15-May-18 01-Jun-18 0% step fender SVII10920 Sec VII - Landing steps (BSW13) - install s.s. handrail / 25 02-Jun-18 0% 03-Jul-18 tactile / sign board / bollard Landing Steps BSW4 SVII10980 Sec VII - Landing steps (BSW4) - install vertical fender / step 15 20-Jun-18 07-Jul-18 0% fender SVII11000 Sec VII - Landing steps (BSW4) - install s.s. handrail / tactile 25 09-Jul-18 06-Aug-18 0% / sign board / bollard Landing Steps BSW5 SVII11060 Sec VII - Landing steps (BSW5) - install vertical fender / step 15 25-Jul-18 10-Aug-18 0% fender SVII11080 Sec VII - Landing steps (BSW5) - install s.s. handrail / tactile 25 11-Aug-18 08-Sep-18 0% / sign board / bollard Landing Steps BSW9 SVII11140 Sec VII - Landing steps (BSW9) - Install vertical fender / step 15 13-Jun-18 30-Jun-18 0% fender SVII11160 Sec VII - Landing steps (BSW9) - install s.s. handrail / tactile 25 03-Jul-18 0% 31-Jul-18 / sign board / bollard

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						CEDD Contract No. HK/2012/08 Page: 6/7 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West
	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	2018 - 2019 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
romenade Se	eawall Parapet Construction & EVA					nun vun vun vun vun vun vun vun vun vun
VII12000	Sec VII - Precast parapet	67	18-Nov-17 A	14-May-18	0%	
VII12010	Sec VII - Zone CRIII - seawall parapet: Backfilling	14	20-Feb-18	07-Mar-18	0%	
VII12120	Sec VII - Zone CRIII - seawall parapet: Construct mass	30	08-Mar-18	16-Apr-18	0%	
VII12122	concrete coping Sec VII - Zone CRIII - seawall parapet: reinforced concret	17	17-Apr-18	07-May-18	0%	
VII12140	coping Sec VII - Zone CRIII - seawall parapet: construct seawall	30	08-May-18	12-Jun-18	0%	
/II12160	parapet Sec VII - CRIII - EVA: watermain	14	13-Jun-18	29-Jun-18	0%	
/II12180	Sec VII - CRIII - EVA: U-channel	14	30-Jun-18	17-Jul-18	0%	
1112200	Sec VII - CRIII - EVA: bituminous layer	5	18-Jul-18	23-Jul-18	0%	
TI12220	Sec VII - CRIII - EVA: paving block	30	24-Jul-18	27-Aug-18	0%	
II13120	Sec VII - Zone A1, A2 & B - seawall parapet: Construct mass concrete coping	14	28-Dec-17 A	07-Mar-18	68.18%	
II13122	Sec VII - Zone A1, A2 & B - seawall parapet: reinforced concrete coping	18	08-Mar-18	28-Mar-18	0%	
113140	Sec VII - Zone A1, A2 & B - seawall parapet: Construct seawall parapet	30	09-Apr-18	14-May-18	0%	
II13160	Sec VII - Zone A1, A2 & B - EVA: watermain	14	15-May-18	31-May-18	0%	
II13180	Sec VII - Zone A1, A2 & B - EVA: U-channel	14	01-Jun-18	16-Jun-18	0%	
II13182	Sec VII - Zone A1, A2 & B - EVA: bituminous layer	5	19-Jun-18	23-Jun-18	0%	
113184	Sec VII - Zone A1, A2 & B - EVA: paving block	30	25-Jun-18	30-Jul-18	0%	
113200	Sec VII - Zone D - seawall parapet: Remove temporary	21	07-Mar-18	03-Apr-18	0%	
113220	seawall block Sec VII - Zone D - seawall parapet: Construct mass concrete	30	04-Apr-18	10-May-18	0%	
II13222	Sec VII - Zone D - seawall parapet: reinforced concrete	18	11-May-18	01-Jun-18	0%	
113240	coping Sec VII - Zone D - seawall parapet: Construct seawall	25	02-Jun-18	03-Jul-18	0%	
113260	parapet Sec VII - Zone D - EVA : watermain	14	04-Jul-18	19-Jul-18	0%	
II13280	Sec VII - Zone D - EVA : U-channnel	14	20-Jul-18	04-Aug-18	0%	
1113300	Sec VII - Zone D - EVA : bituminous layer	5	06-Aug-18	10-Aug-18	0%	
II13320	Sec VII - Zone D - EVA : paving block	30	11-Aug-18	14-Sep-18	0%	
omenade Fo	otpath					
VII10440	Sec VII - section 1 footpath - drainage works : connection pipe & U -channel	10	24-May-18	04-Jun-18	0%	
VII10445	Sec VII - section 1 footpath - watermain	7	05-Jun-18	12-Jun-18	0%	
VII10460	Sec VII - section 1 footpath - lighting	7	13-Jun-18	21-Jun-18	0%	
WII10500	Sec VII - section 1 footpath - paving block	21	22-Jun-18	17-Jul-18	0%	
action 2		No. And	CONSIGNATION OF THE PARTY OF TH		ALC: NO	
SVII12610	Sec VII - section 2 footpath - drainage works : L2202 -	20	20-Feb-18	14-Mar-18	0%	
VII12615	L2203A Sec VII - section 2 footpath - watermain	7	15-Mar-18	22-Mar-18	0%	
VII12630	Sec VII - section 2 footpath - utilities: TCSS	21	23-Mar-18	20-Apr-18	0%	
	Sec VII - section 2 footpath - paving block	30	21-Apr-18	28-May-18	0%	
ection 3	pring state	CLEAR STREET, S				
	Contrast and the 2 feet of the		20 5-6 40	10.11	000	
	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																
ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan F	eb Mar	Apr	May	2 Jun	018 Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	A
SVII12890	Sec VII - section 3 footpath - paving block	30	19-May-18	25-Jun-18	0%	, in the second		1.41		Jun	Jun	nug	Gep	000	1400	Dec	Jan	Feb	Wat	
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	21	21-Feb-18	16-Mar-18	0%															
SVII13055	-L2203A) Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC &	49	17-Mar-18	18-May-18	0%															
SVII13110	PCCW Sec VII - section 4 footpath - paving block	25	19-May-18	19-Jun-18	0%			-												-
Section 5					120220															
SVII13270	Sec VII - section 5 footpath - drainage works :L2203A	14	17-Mar-18	06-Apr-18	0%			-												
SVII13275	-L2204 Sec VII - section 5 footpath - watermain	14	07-Apr-18	23-Apr-18	0%															
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC,	42	24-Apr-18	13-Jun-18	0%															
SVII13330	PCCW Sec VII - section 5 footpath - paving block	22	14-Jun-18	11-Jul-18	0%															
Section 6					10000															
SVII13490	Sec VII - section 6 footpath - drainage works(Culvert L -	14	20-Feb-18	07-Mar-18	0%															
SVII13510	L2204) 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,	49	23-Mar-18	25-May-18	0%															<b>.</b>
SVII13550	PCCW 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	20110/ 20	14-Sep-18	0%															
	Landscape Softworks	v		11 500 10	0.00															
Soft Landsca				21.0.10																
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%								•							
	stablishment Works																			
Soft Landsca	ping 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 - Pr	rotection & 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 Landsca	ping Works																			1
SX10020	Sec X - Protection & Preservation of Trees	214	31-Jan-13 A	21-Sep-18	86.89%	Li	i	i	-		and the second	1	Constant of the							

