#### 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**

- NOVEMBER 2016 -

**CLIENTS:** 

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**CERTIFIED BY:** 

Raymond Dai

**Environmental Team Leader** 

DATE:

12 December 2016



Ref.: AACWBIECEM00 0 8844L.16

12 December 2016

### **AECOM Asia Company Limited**

By Post and Fax (2691 2649)

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 Monthly Environmental Monitoring and Audit Report (November 2016) for EP-122/2002/E

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for November 2016 received by email on 12 December 2016.

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 gueries.

Yours faithfully,

David Yeung

Independent Environmental Checker

C.C.

CEDD

Mr. Stephen Lo

by fax: 2577 5040

AECOM

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

Lam

Mr. Raymond Dai

by fax: 2882 3331

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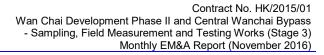
### **TABLE OF CONTENTS**

EXE	CUTIVE	SUMMARY	4
1	INTR	ODUCTION	7
	1.1 1.2	Scope of the ReportStructure of the Report	
2	PROJ	ECT BACKGROUND	9
	2.1 2.2 2.3	Background Scope of the Project and Site Description Project Organization and Contact Personnel	9
3	STAT	US OF REGULATORY COMPLIANCE	13
	3.1	Status of Environmental Licensing and Permitting under the Project	13
4	MON	TORING REQUIREMENTS	16
	4.1 4.2 4.3	Noise Monitoring	17
5	MON	TORING RESULTS	22
	5.1 5.2 5.3 5.4	Noise Monitoring Results  Air Quality Monitoring Results  Water Quality Monitoring Results  Waste Monitoring Results	24
6	COM	PLIANCE AUDIT	28
	6.1 6.2 6.3 6.4 6.5	Noise Monitoring  Air Quality Monitoring  Water Quality Monitoring  Review of the Reasons for and the Implications of Non-compliance  Summary of action taken in the event of and follow-up on non-compliance	28 28
7 PRO		JLATIVE CONSTRUCTION IMPACTS DUE TO THE CONCURRENT	29
8	ENVI	RONMENTAL SITE AUDIT	30
9	COMI	PLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION	31
10	CONC	CLUSION	33



### **LIST OF TABLES**

Table 1	Summary of Water Quality Monitoring Exceedances in Reporting Month
Table 2.1	Schedule 2 Designated Projects under this Project
Table 2.2	Contact Details of Key Personnel
Table 3.1	Summary of the current status on licences and/or permits on environmental
	protection pertinent to the Project
Table 3.2	Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08
Table 3.3	Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18
Table 4.1	Continuous Noise Monitoring Stations
Table 4.2	Air Quality Monitoring Stations
Table 4.3	Water Quality Monitoring Station
Table 4.4	Marine Water Quality Monitoring Frequency and Parameters
Table 5.1	Continuous Noise Monitoring Stations for Contract no. HK/2012/08 and HY/2009/18
Table 5.2	Air Quality Monitoring Station for Contract no. HK/2012/08
Table 5.3	Air Quality Monitoring Station for Contract no. HY/2009/18
Table 5.4	Water Quality Monitoring Station for Contract no. HK/2012/08
Table 5.5	Summary of Water Quality Monitoring Exceedance in Reporting Month
Table 5.6	Details of Waste Disposal for Contract no. HK/2012/08
Table 5.7	Details of Waste Disposal for Contract no, HY/2009/18
Table 9.1	Cumulative Statistics on Complaints
Table 9.2	Cumulative Statistics on Successful Prosecutions
Table 10.1	Summary of Key Construction Activities of Individual Contract(s) to be
4310 1011	commenced in Coming Reporting Month
	Commenced in Coming Reporting Month





### LIST OF FIGURES

Figure 2.1	Project Layout
Figure 2.2	Project Organization Chart
Figure 4.1	Locations of Environmental Monitoring Stations

### **LIST OF APPENDICES**

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

### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report November 2016 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 November 2016. The cut-off date of reporting is the last day of each reporting month.
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting month, the principal work activities of the contracts are included as follows:
   Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
  - Roadworks
  - Drainage works

### Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

Nil

### Noise Monitoring

- iv. Continuous noise monitoring was conducted at ACL3 City Hall.
- v. Limit level exceedance was recorded at ACL3 City Hall on 26 November 2016 during daytime in the reporting period. After the investigation, the exceedance was concluded as non-project related.
- 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.

- No action or limit level exceedances was recorded at ACL 1 City Hall and ACL2a viii. Contractor HK/2012/08 Site Office in the reporting month.
- Due to the defective electricity supply found at monitoring station ACL1 and the advice from ix. 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 х. for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4th November, 2013.
- The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army xi. Headquarter (ACL2) was approved by EPD on 27 November 2013.
- According to the approved proposal for relocation of Air Quality Monitoring station, the action xii. 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.
- Water quality monitoring at M5B and Culvert J were conducted three days per week during XV. reporting period starting from 26 September 2014. The action and limit level exceedance of water quality monitoring are summarized in Table 1.
- Two action level exceedance of suspended solids was recorded on 4 and 30 November 2016 xvi. during flood tide and one limit level exceedance of suspended solids was recorded on 21 November 2016 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-project related.

Table 1 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract	Water	Mid-flood			Mid-ebb				
No.	quality monitoring	D	0	Ś	S	D	0	S	S
	station	AL	LL	AL	LL	AL	LL	AL	LL
111/10040/00	M5B <sup>2</sup>	0	0	2	1	0	0	0	0
HK/2012/08	Culvert J <sup>1</sup>	-	-	-	-	-	-	-	-
Total		0	0	2	1	0	0	0	0

Remarks<sup>1</sup>: Action or limit level are not applicable to reference station Culvert J.

Remarks<sup>2</sup>: Turbidity measurement are reported as reference.

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### 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 and Contract no. HY/2009/18 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> Wan Chai West

- Roadworks
- Drainage works
- Backfilling

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

NIL

6

### 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 November 2016. 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 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 <u>Figure 2.1.</u>
- 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. *Figure 2.1* shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference
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 Wan Chai Bypass (CWB) Central Interchange as part of the Project works by the Highways Department is associated with Designated Project (DP2).

### 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*:



Table 2.2 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3922 3388	3912 3010
China State- Leader JV	Contractor under Contract	Project Director	C. N. LAI	9106 5806	2877 1522
	no. HK/2012/08	Project Manager	Mr. Eddie Chung	9189 8118	
		Site Agent	Mr. Keith Tse	9037 1839	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. HO	9856 5669	
Leighton	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
Contractor (Asia) Limited		Environmental Office	Mr. Chris Chan	3973 0885	
Limitod	11172000710	Environmental Supervisor	Ms. Christy So	3973 1065	
RAMBOLL ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

- 2.3.3 In this reporting month, the principal work activities of the contract is included as follows:
  Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
  - Roadworks
  - Drainage works

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

- NIL
- 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 Wan Chai West</u>
  - Roadworks
  - Drainage works
  - Backfilling

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

NIL

### 3 STATUS OF REGULATORY COMPLIANCE

### 3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-122/2002/D	1 Sep 2009	Superseded
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	18 Jul 2017	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	-	-	-	-
Construction Noise Permit	GW-RS0746-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
Construction Noise Permit	GW-RS0736-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Valid
Dumping Permit (Type 1- Open Sea Disposal)	-	-	-	-

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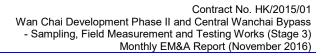


Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 2- Confined Marine Disposal)	-	-	-	

3.1.3. The current status on licences and/or permits on environmental protection pertinent for Contract no. HY/2009/18 showed in *Table 3.3.* 

Table 3.3 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0669-16	24 Jun 2016	1 Jul 2016 - 31 Dec 2016	Valid
Registration as a Chemical Waste Producer	N/A	N/A	N/A	N/A
Dumping Permit (Type 1- Open Sea Disposal)	N/A	N/A	N/A	N/A
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	N/A	N/A	N/A	N/A
Dumping Permit  (Type 2- Confined Marine Disposal)	N/A	N/A	N/A	N/A
Approval of Tree Survey Report	N/A	N/A	N/A	N/A
Approval of Coral Translocation Report	N/A	N/A	N/A	N/A



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal	Account No.: 7011587	11 Oct 2010	Account approved	Valid
Ordinance (Land)	7011307		арріочец	

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

### 4 MONITORING REQUIREMENTS

### 4.1 Noise Monitoring

### **NOISE MONITORING 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

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 ™ 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.

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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

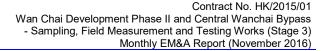
Station ID	Description
ACL1	City Hall
ACL2a	Contractor HK/2012/08 Site Office

### 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 cm2;



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- 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 Wate	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.

Table 4.4 Marine Water Quality Monitoring Frequency and Parameters

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

#### Notes:

- 1. 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.

### **SALINITY**

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 equipments 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.
  - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 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 Wan Chai West and Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange</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 and Contract no. HY/2009/18

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 exceedance was recorded at ACL3 City Hall on 26 November 2016 during daytime in the reporting period.
- 5.1.4 After checking with Contractor, no construction works were conducted under Contractor HK/2012/08 at CRIII works area and Contractor HY/2009/18 at P1 Road on 26 November 2016 during the reporting period while music event was held at area opposite to the monitoring station during the concerned period and considered as the major noise contribution. As such, the exceedance was considered as non-project related.



5.1.5 Continuous noise monitoring results measured in this reporting period are reviewed and summarized. Details of continuous noise monitoring results and graphical presentation can be referred to *Appendix 5.2*.

### 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 Wan Chai West</u>
- 5.2.6 The proposed division of air quality monitoring stations are summarized in *Table 5.2* below.

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

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

- 5.2.7 No action or limit level exceedance was recorded in the reporting month.
- 5.2.8 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.
  - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 5.2.9 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. HY/2009/18

Station	Description
ACL1	City Hall

- 5.2.10 No action or limit level exceedance was recorded in the reporting month.
- 5.2.11 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.

### 5.3 Water Quality Monitoring Results

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

5.3.1 The proposed division of water quality monitoring stations are summarized in *Table 5.4* below.

Table 5.4 Water Quality Monitoring Station for Contract no. HK/2012/08

Station ID	Description		
Cooling Water In	takes		
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters		
Culverts (Refere	nce Station)		
Culvert J	Culvert J Outfall Location		

- 5.3.2 Water quality monitoring results measured in this reporting period are reviewed and summarized. Detail of water quality monitoring results and graphical presentation can be referred in *Table 5.5* and *Appendix 5.4*
- 5.3.3 Two action level exceedance of suspended solids was recorded on 4 and 30 November 2016 during flood tide and one limit level exceedance of suspended solids was recorded on 21 November 2016 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-project related.
- 5.3.4 No marine construction activity was conducted under Contract HK/2012/08 on 4 November 2016 during flood tide. In view of no marine construction activity and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 7 November 2016 ebb tide, it was considered that the exceedance was not related to Project.
- 5.3.5 No marine construction activity was conducted under Contract HK/2012/08 on 21 November 2016 during flood tide. In view of no marine construction activity and no exceedance was



recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 23 November 2016 ebb tide, it was considered that the exceedance was not related to Project.

5.3.6 Despite trimming of rock mound profile was conducted under Contract HK/2012/08 on 30 November 2016 during flood tide, contractor mitigation measures such as the use of silt curtain was generally in place. No particular observation regarding water quality impact was observed during sampling. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring on 1 December 2016 ebb tide.

Table 5.5 Summary of Water Quality Monitoring Exceedance in Reporting Month

Contract Water quality		Mid-flood			Mid-ebb				
No.	monitoring station	DO		SS		DO		SS	
		AL	LL	AL	LL	AL	LL	AL	LL
HK/2012/08	M5B <sup>2</sup>	0	0	2	1	0	0	0	0
HK/2012/00	Culvert J <sup>1</sup>	-	-	-	-	-	-	-	-
Т	otal	0	0	2	1	0	0	0	0

Remarks<sup>1</sup>: Action or limit level are not applicable to reference station Culvert J.

Remarks<sup>2</sup>: Turbidity measurement are reported as reference.



### 5.4 Waste Monitoring Results

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

5.4.1 Inert and non-inert C&D wastes were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.6* 

Table 5.6 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	0	7648 49798	TM38 TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	15	1785	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



### Contractor no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

5.4.2 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* 

Table 5.7 Details of Waste Disposal for Contract no. HY/2009/18

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



### 6 Compliance Audit

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

### 6.1 Noise Monitoring

- <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at</u> Wan Chai West
- 6.1.1 Limit level exceedance was recorded at ACL3 City Hall on 26 November 2016 during daytime in the reporting period. After the investigation, the exceedance was concluded as non-project related.
  - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 6.1.2 Limit level exceedance was recorded at ACL3 City Hall on 26 November 2016 during daytime in the reporting period. After the investigation, the exceedance was concluded as non-project related.

### 6.2 Air Quality Monitoring

- Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West
- 6.2.1. No action or limit level exceedance was recorded in the reporting month.
  - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 6.2.2. No action or limit level exceedance was recorded in the reporting month.

### 6.3 Water Quality Monitoring

- <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at</u> Wan Chai West
- 6.3.1 Two action level exceedance of suspended solids was recorded on 4 and 30 November 2016 during flood tide and one limit level exceedance of suspended solids was recorded on 21 November 2016 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-project related.

### 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 roadworks and drainage works were performed in November 2016 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were culvert reinstatement, road and drains, building demolition and tunnel works at Wan Chai East and tunnel construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were road works and ventilation building construction at Central Interchange, temporary reclamation removal works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, ELS works and tunnel works at TS3, bridge construction, piling and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North 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 water, 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 1, 8, 15, 22 and 29 November 2016 for Contract no. HK/2012/08. No observation was found during the reporting period.
- 8.1.2 During this reporting month, four weekly site inspections were carried out on 3, 10, 17 and 24 November 2016 for Contract no. HY/2009/18. No observation was found during the reporting month-



#### COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION 9

- 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 – October 2016	4
November 2016	0
Total	4

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

31

### 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	Key Construction Works	Recommended Mitigation Measures
No.		
HK/2012/08	Roadworks	Dust control during dust generating works;
	Drainage works	Implementation of proper noise pollution
	Backfilling	control; and
		Provision of protection to ensure no runoff
		out of site area or direct discharge into
		public drainage system.
HY/2009/18	• NIL	• NIL

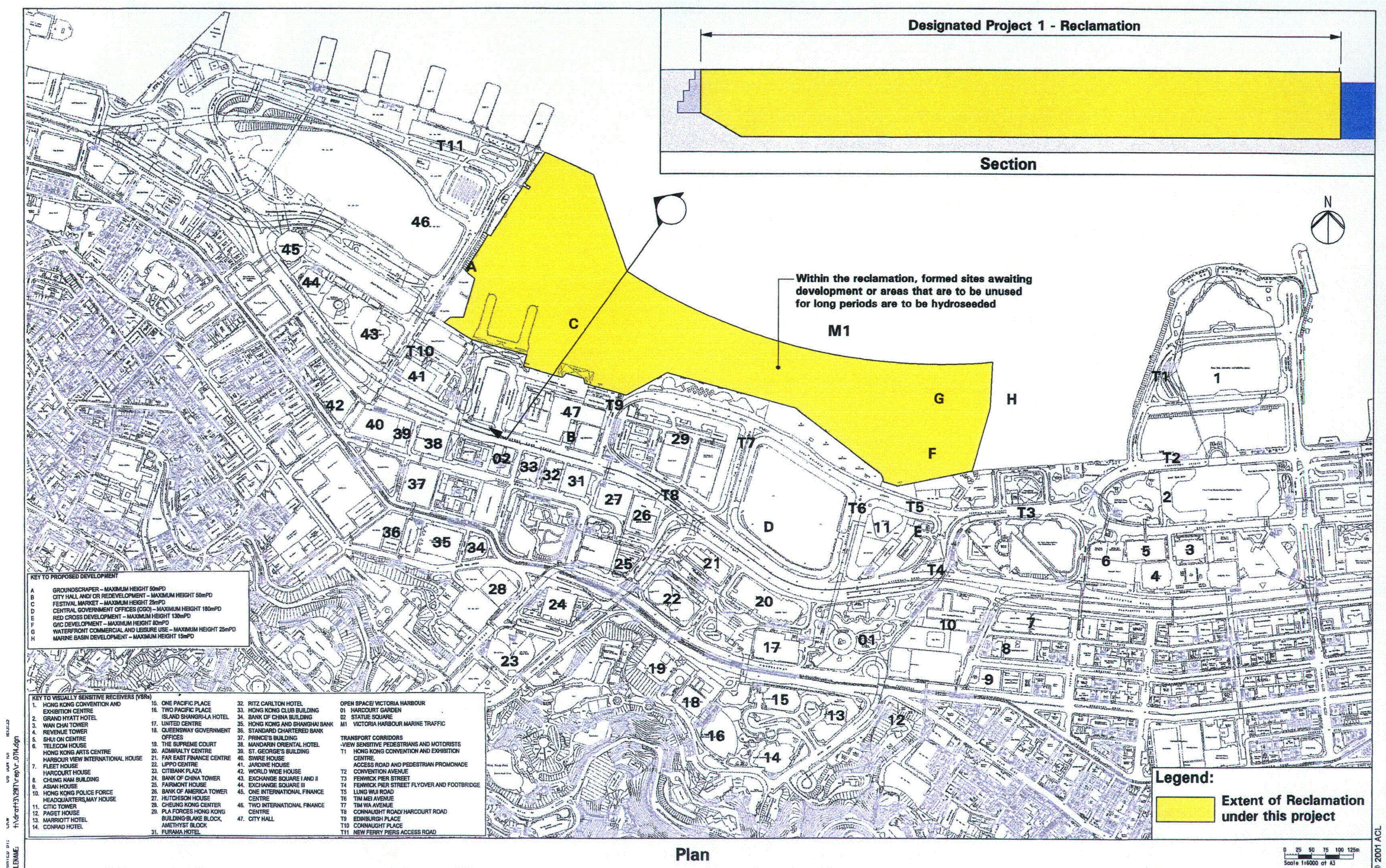
Figure 2.1

Project Layout

# Central Reclamation, Phase III

Studies, Site Investigation, Design and Construction SUPPLEMENTARY AGREEMENT NO. 2 TO AGREEMENT No. CE 15/94

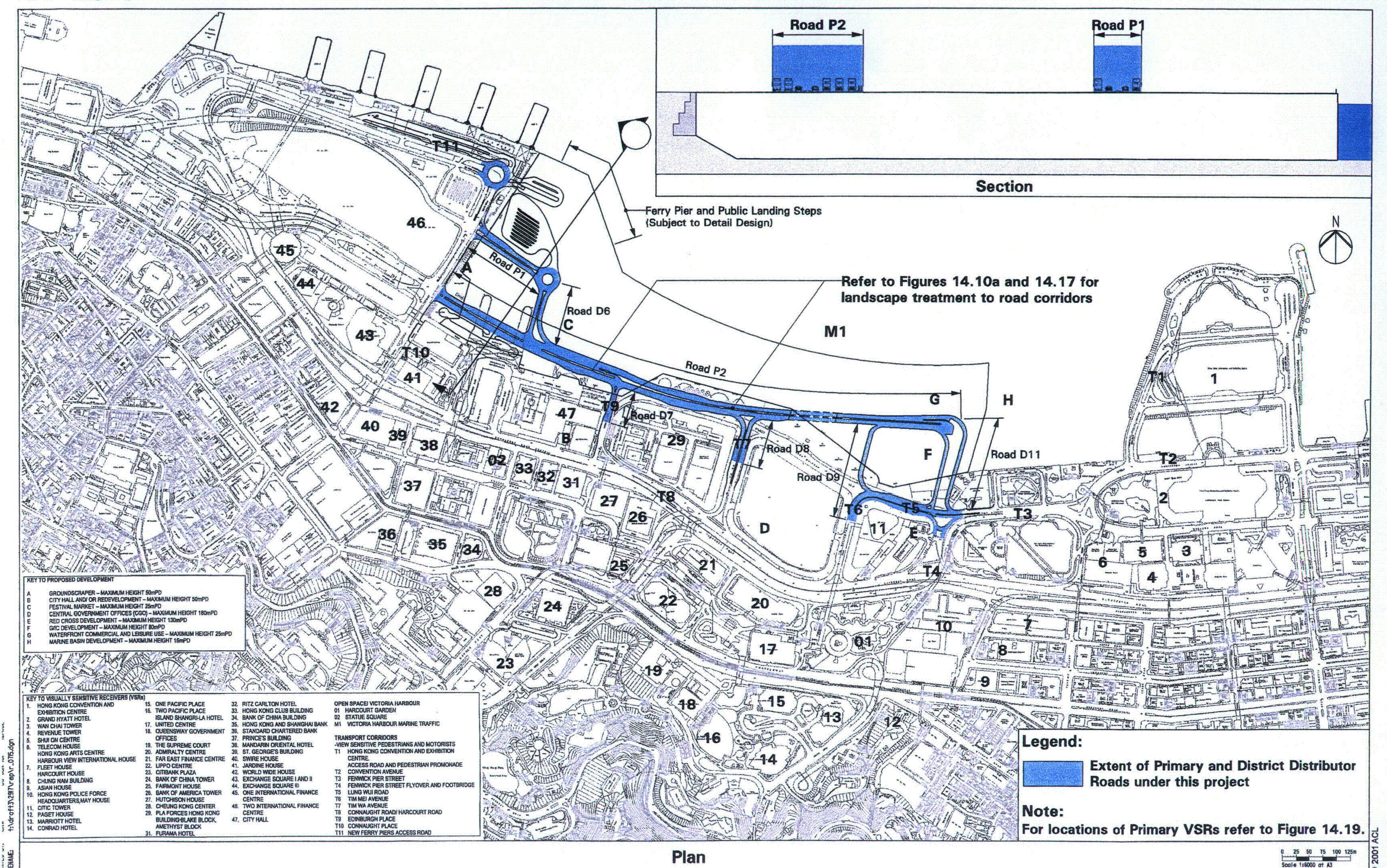
英雄順 周公司 Atkins China Ltd



## Central Reclamation, Phase III

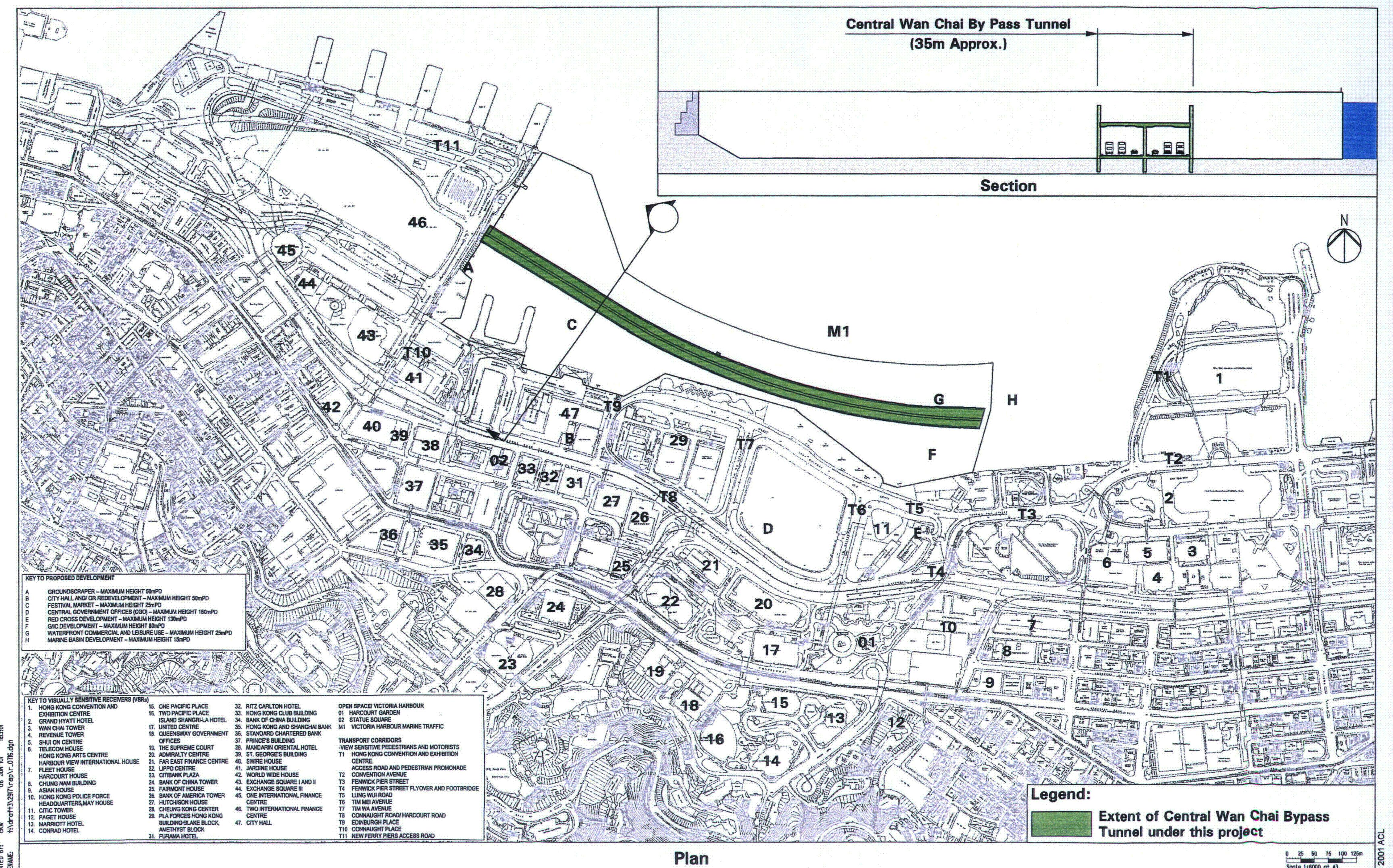
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# Central Reclamation, Phase III

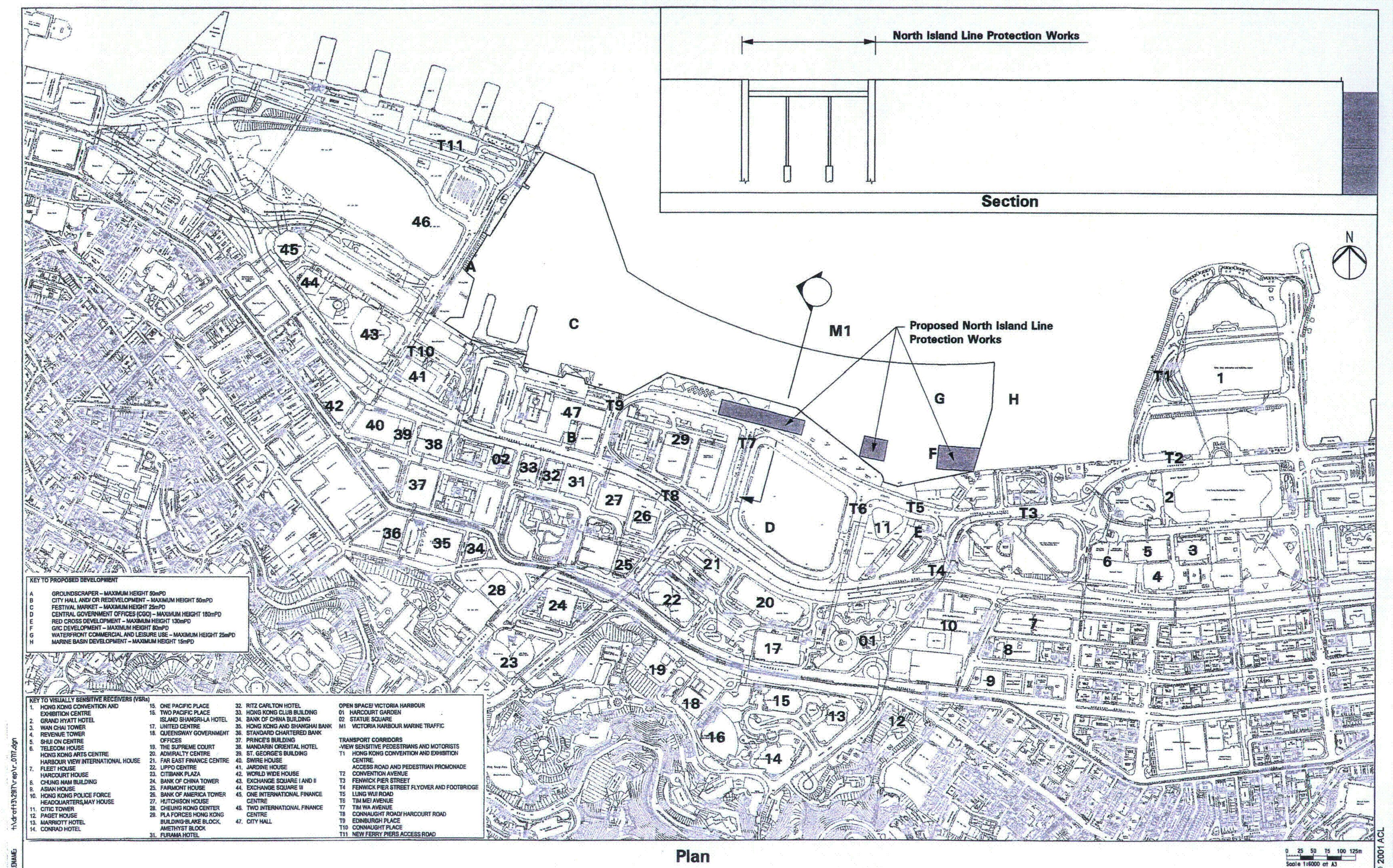
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## Central Reclamation, Phase III

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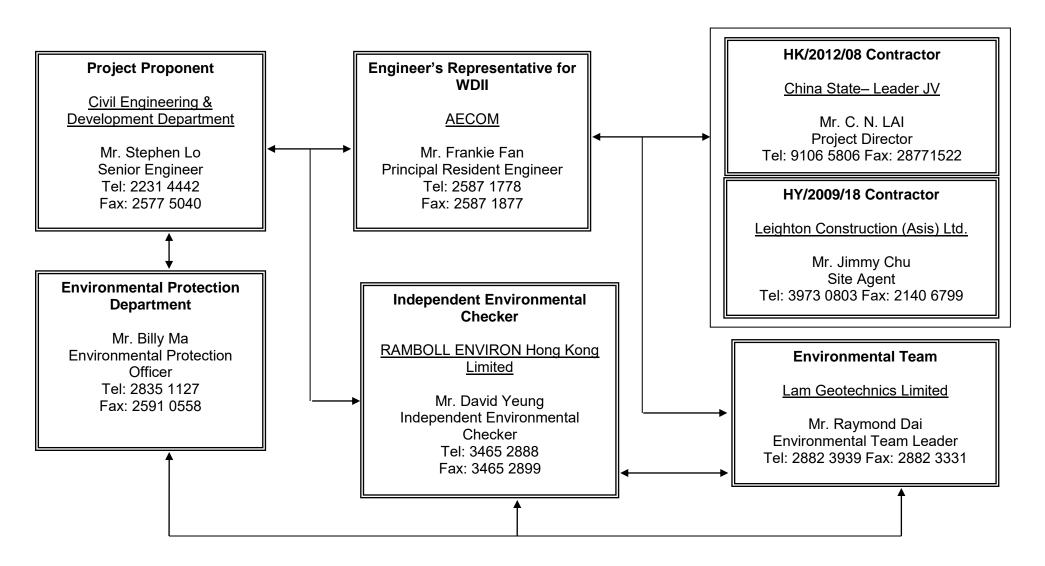
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## Figure 2.2

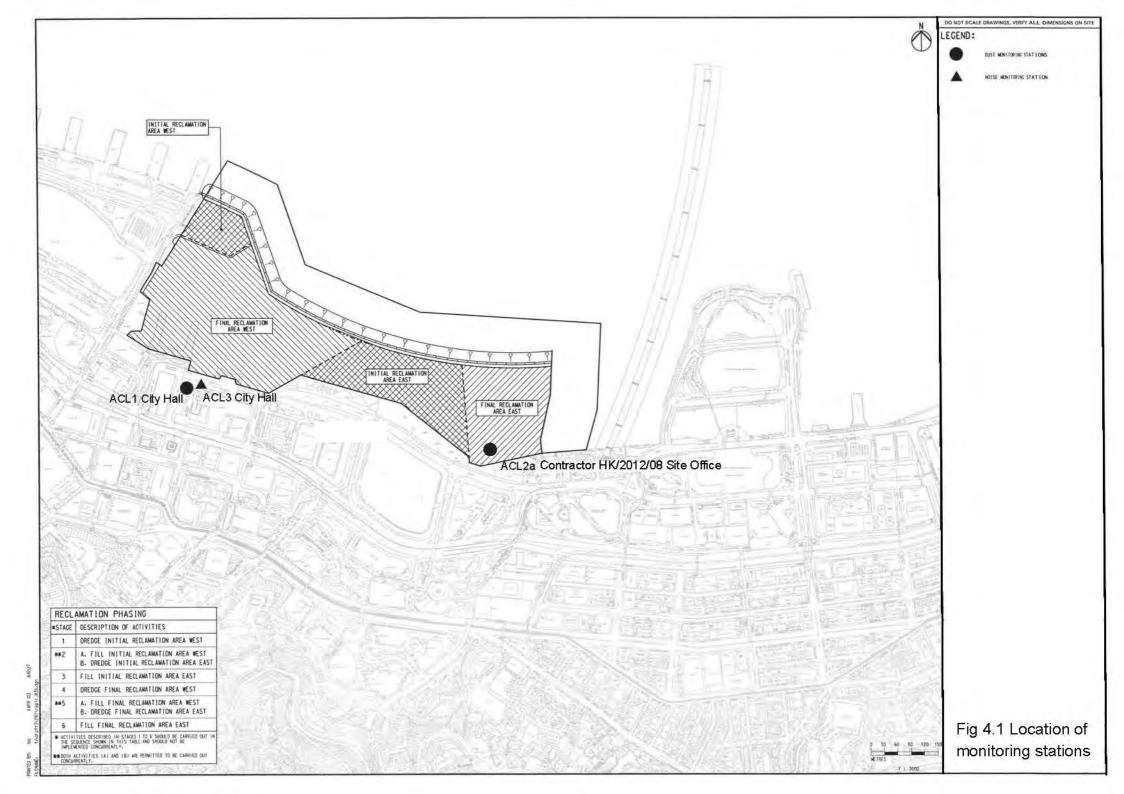
**Project Organization Chart** 

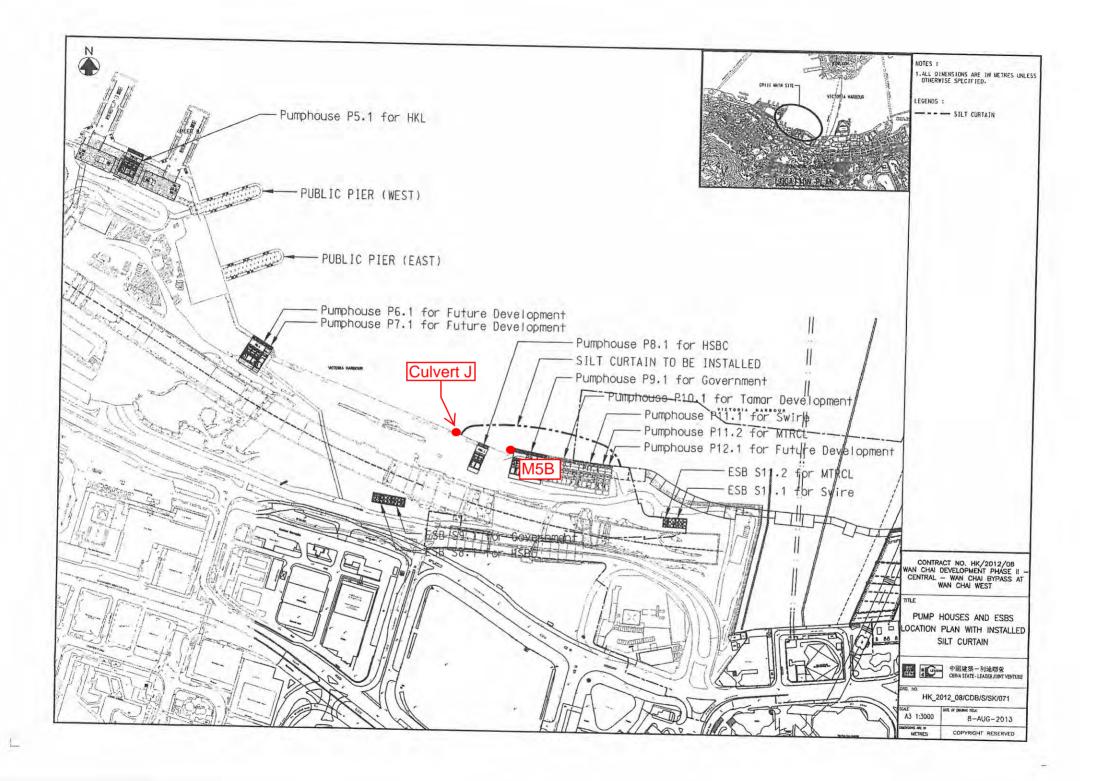
## **Project Organization Chart**



## 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 +					
		· Implementation of the Waterfront Promenade, Statue Square Corridor, Historic Corridor, Civic Corridor, Arts and Entertainment Corridor, Streetscape Network, Landscape Decks, and Supplementary Landscape Spaces;	Various	Area wide, proposals at design stage for implementation during construction	D/C	Р	
		·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;					
		· provision of a grade separated pedestrian system to minimise vehicular/ pedestrian conflict;					
		· provision of an integrated network of local and regional open spaces for passive and active recreation;					
		· preservation of selected architectural features;					
		· preservation insitu of existing significant vegetation, principally the two Banyan Trees flanking the Tamar Site;					
		· new roads to incorporate suitable streetscape amenity and landscape planting to minimise visual and environmental impacts;					



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	Р	1
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	С	P, R, A, C	1
		Use of noise barriers (in the form if purpose built site hoarding of 3 - 5 m height and surface density of at least 7 kgm² with cranked top) for the following works:  · Hong Kong Station Extended Overrun Tunnels to north of Central Barracks.  · North Island Line Protection Works to north of Central Barracks;  · Road/Drainage Works to north of Central Barracks;  · Culvert F Piling Works to north of City Hall.	TDD's Contractor	Work Sites as stated Start of activity stated End of activity stated	С	P, A	
		· Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	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
		· 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
		· 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.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		· Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activites.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
6	Construction Air Quality Control Requirements	· Strictly limit truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition.	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  During construction	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
				End of construction			
7	Construction W ater Quality Control Requirements	Specific Measures Associated with Dredging Works  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;  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  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)  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 sequence.	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7
		· no dredging should take place under very bad weather conditions.					
		silt curtain around dredging sites to be provided as necessary.  Specific Measure for Marine Disposal of Dredged Materials and Maine Sand Filling Works 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;  all hopper barges and dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7
		· 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					



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
		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;      bulk filling should be carried out, where feasible, behind completed seawall to above high	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					
		· 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 m³ 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 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;					
		• 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					
		· Transport barges or vessels shall be equipped with automatic self-monitoring devices.					



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	С	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
		Construction Run-off and Drainage					
		· Control of Site Surface Runoff:	TDD's Contractor	Works Area	С	P,R,A,C	7
		- Surface run-off from construction sites should be discharged into storm drains via		During construction			
		adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment		End of construction			
		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.					
		- Silt removal facilities, channels and manholes should be maintained.					
		- 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.					
		- 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 provided where necessary.					
		- Measures 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.					
		- Open stockpiles of construction materials should be covered.					
		- Manholes should be adequately covered and temporarily sealed.					
		· Groundwater					
		- Groundwater pumped out of tunnels or caverns should be discharged into storm drains					
		after the removal of silt.					



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	С	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>		Work Area During construction End of construction	С	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.					
		Wastewater from Building Construction     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.      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.					
		·Licensing of Construction Site Discharges within Water Control Zones  -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.  -Discharges controlled under the WPCO must comply with the terms and conditions of a valid WPCO licence.					

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 finel dispassed and shall be dispassed of at the Fact Sha Chay Contaminated Mid Rite.	TDD's Contractor	Whole Reclamation Area During Reclamation Works End of Reclamation Work	С	R	7
		upon final disposal and shall be disposed of at the East Sha Chau Contaminated Mud Pits.  Segregation and Disposal of Wastes					
		· inert demolition/construction waste material when deemed suitable for reclamation or land formation should be re-used on-site;	TDD's Contractor	Works Areas  During Construction	С	P, R, A, C	1,8, 9
		· non-inert demolition / construction waste material should be disposed of at landfills; · 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;		End of Construction			
		general refuse should be recycled where possible or disposed of at public landfill.  Storage, Collection and Transport of Waste      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	TDD's Contractor	Works Areas During Construction End of Construction	С	P, R, A, C	1, 8, 9
		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;					
		· only reputable waste hauliers authorised to collect the specific category of waste concerned should be employed;					
		<ul> <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> </ul>					
		· the necessary waste disposal permits and registrations should be obtained from the appropriate authorities, if they are required, in accordance with the Waste Disposal					



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	Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and the Crown Land Ordinance;  · collection of general refuse should be carried out frequently, preferably daily;  · 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;  · waste storage areas should be well maintained and cleaned regularly;  · records should be maintained of the quantities of wastes generated, recycled and disposed, determined by weighing each load or other method; and  · A "trip ticket" system should be implemented, if required by Government.  Construction stage landscape and visual mitigation measures should include:  · Minimising contractors accesses and working areas as far as possible;  · 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  · Transplanting of trees where appropriate;  · Advance planting and visual screening;	TDD's design consultant	Area wide during design and contract preparation	D	P, R, A, C	11, 12, 13,14
		Conservation of top soil;     Design of the temporary works areas so as to optimise eventual use as promenade and public open space; and     Sensitively designed site hoarding.					
10	Monitoring and Audit	To be carried out in accordance with the Schedule in the EM and A Manual	TDD*/Contractor/ RSS	Works areas  During construction  End of construction and within one year of operational phase	C/O	P, R, A, C	1
			TDD's design consultant	Area wide during design and contract preparation	D	P, R, A, C	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/m3		
	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



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

#### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M Operator		Rootsmeter Orifice I.I		0438320 3166	Ta (K) - Pa (mm) -	293 748.03
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.4270 1.0220 0.9100 0.8730 0.7180	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9967 0.9925 0.9904 0.9892 0.9840	0.6985 0.9711 1.0883 1.1332 1.3705	1.4150 2.0010 2.2372 2.3464 2.8299	0.9957 0.9915 0.9893 0.9882 0.9830	0.6977 0.9701 1.0872 1.1320 1.3691	0.8851 1.2517 1.3995 1.4678 1.7702
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	2.10714 -0.05158 0.99978 	Qa slop intercep coeffici	t (b) =	1.31946 -0.03226 0.99978

#### CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Location	:	ACL1	Calbration Date	5-Sep-16
Equipment no.	:	HVS014	Calbration Due Date	5-Nov-16

				Ambient Con	dition				
emperature, T <sub>a</sub>		300		Kelvin Pr			10	006	mmHg
Service and the service state of the service of the			Orifice	Transfer Standa	rd Information				
Equipment No.		Ori002		Slope, m <sub>c</sub>	2.10714		Intercept, bc	T -	0.05158
Last Calibration Date		20-May-1	6		(HxI	P <sub>a</sub> / 10	13.3 x 298 / 7	a) 1/2	
Next Calibration Date		20-May-1	7		=	$m_c$	$(Q_{std} + b_c)$		
				Calibration of	TSP				
Calibration	Ма	nometer R	eading	Q std		Contin	uous Flow		IC
Point	Н (	inches of	water)	(m <sup>3</sup> / mi	n.)	Rec	order, W	(W(P <sub>a</sub> /1013.3	x298/T <sub>a</sub> ) <sup>1/2</sup> /35.3
	(up)	(down)	(difference)	X-axis		(	CFM)	γ.	axis
1	1.4	1.4	2.8	0.8131			34	33	.7659
2	2.6	2.6	5.2	1.0992	2		42	41	7108
3	3.7	3.7	7.4	1.3066	3		49	48	6626
4	4.7	4.7	9.4	1.4695	i		55	54.	6213
5	6.2	6.2	12.4	1.6841			60	59.	5868
y Linear Regression of Y or	n X								
	Slope, m	=	30.4	4781	Interce	ept, b =	8.8	248	
Correlation C	oefficient*	=	0.9	979					
Calibration	Accepted	=	Yes	/No**					
f Correlation Coefficient < 0	0.990, che	ck and reca	libration agair	1.					
Delete as appropriate.					¥				
As per client's	provided in	oformation.	the environment		Ab 175 1 - 1 - 1	P. I. S. Z. I.	me Sampler has t		
emarks: As per client's	provided if	normation,	ıne equipmen	t reference no. of	trie calibrated l	⊣igh Volu	me Sampler has t	peen	

Calibrated by	:	Jackey Ma	Checked by	:	Pauline Wong
Date	:	5-Sep-16	Date	: _	5-Sep-16



Location	: _	ACL1	Calbration Date	_	01-Nov-16
Equipment no.	:	HVS014	Calbration Due Date		01-Jan-17

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition							
Temperature, T <sub>a</sub>	297	Kelvin <b>Pressure</b> , <b>P</b> <sub>a</sub>	1020	mmHg			

Orifice Transfer Standard Information									
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bc	-0.05158				
Last Calibration Date	20-May-16		$(HxP_a$	/ 1013.3 x 298 / T <sub>a</sub> )	1/2				
Next Calibration Date	20-May-17		= 1	$m_c \times Q_{std} + b_c$					

Calibration of TSP									
Calibration	Ма	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC			
Point	н (	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, 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			
1	1.4	1.4	2.8	0.8226	34	34.1696			
2	2.4	2.4	4.8	1.0694	42	42.2095			
3	3.7	3.7	7.4	1.3219	48	48.2394			
4	4.8	4.8	9.6	1.5022	54	54.2694			
5	6.0	6.0	12.0	1.6767	60	60.2993			
By Linear Regression of Y o	n X								
Slope, m =		29.	9233 In	ntercept, b = 9.	5789				
Correlation C	Correlation Coefficient* =		0.9	9981	_				
Calibration	Accepted	=	Yes	/ <del>No</del> **					

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

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

re-assigned from EL550 to HVS014 with respect to the update in quality management system.

 Calibrated by Date
 :
 Jackey Ma
 Checked by Date
 :
 Pauline Wong

 Date
 01-Nov-16
 Date
 :
 01-Nov-16

<sup>\*\*</sup> Delete as appropriate.



Location	:	ACL2a	Calbration Date :	12-Sep-16
Equipment no.	: <u> </u>	HVS011	Calbration Due Date :	13-Nov-16

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T <sub>a</sub>	302	Kelvin	Pressure, Pa	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bc	-0.05158
Last Calibration Date	20-May-16		$(HxP_a/$	1013.3 x 298 / T <sub>a</sub> )	1/2
Next Calibration Date	20-May-17		= <i>m</i>	$_{c} \times Q_{std} + b_{c}$	

Calibration of TSP						
Calibration	Ma	nometer R	eading	Q std	Continuous Flow	IC
Point	н	inches of	water)	(m <sup>3</sup> / min.)	Recorder, 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
1	1.7	1.7	3.4	0.8923	30	29.7521
2	2.3	2.3	4.6	1.0339	36	35.7025
3	3.6	3.6	7.2	1.2874	42	41.6529
4	4.7	4.7	9.5	1.4736	50	49.5868
5	5.9	5.9	11.8	1.6412	54	53.5538
By Linear Regression of Y	on X					
	Slope, m	=	31.60	033 In	tercept, b =	2.0495
Correlation C	oefficient*	=	0.99	55	-	
Calibration	Accepted	=	Yes/4	<del></del>		

if Correlation Coefficient < 0.	990, check and	recalibration	again.
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Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL111 to HVS011 with respect to the update in quality management system.

Pauline Wong Calibrated by Jackey MA Checked by

Date 12-Sep-16 Date 12-Sep-16



Location	:	ACL2a	Calibration Date	: _	11-Nov-16
Equipment no.	:	HVS011	Calibration Due Date	: _	11-Jan-17

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T <sub>a</sub>	293	Kelvin Pressure, Pa	1019	mmHg	

Orifice Transfer Standard Information					
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bc	-0.05158
Last Calibration Date	20-May-16		$(HxP_a/$	1013.3 x 298 / T <sub>a</sub> )	1/2
Next Calibration Date	20-May-17		= <i>m</i>	$_{c} \times Q_{std} + b_{c}$	

Calibration of TSP						
Calibration	Mai	nometer Re	eading	Q std	Continuous Flow	IC
Point	н	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, 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
1	1.5	1.5	3.0	0.8558	29	29.3285
2	2.4	2.4	4.8	1.0760	37	37.4192
3	3.9	3.9	7.8	1.3649	44	44.4985
4	4.9	4.9	9.8	1.5270	53	53.6004
5	6.2	6.2	12.4	1.7146	56	56.6344
By Linear Regression of Y	on X					
	Slope, m	=	32.49	958 In	tercept, b =	1.8031
Correlation C	oefficient*	=	0.99	14		
Calibration	Accepted	=	Yes/4	<del>lo</del> **		

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

Remarks:	As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been	
	re-assigned from EL111 to HVS011 with respect to the update in quality management system.	

Calibrated by	:	Jackey MA	Checked by	:	Pauline Wong
Date	:	11-Nov-16	Date	: _	11-Nov-16



G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com





### CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0226 04-01

Page

of

2

Item tested

Description:

Sound Level Meter (Class 1)

Microphone

Manufacturer:

Larson Davis

Type/Model No.: Serial/Equipment No.: Model 831

377B02

Adaptors used:

0003227

SNLW135892

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No. Date of receipt:

26-Feb-2016

Date of test:

27-Feb-2016

#### Reference equipment used in the calibration

Model:

Serial No.

**Expiry Date:** 

Traceable to:

Multi function sound calibrator Signal generator

B&K 4226 DS 360

2288444

19-Jun-2016 16-Apr-2016

CIGISMEC

Signal generator

DS 360

33873 61227

16-Apr-2016

CEPREI CEPREI

#### Ambient conditions

Temperature: Air pressure:

21 ± 1 °C

Relative humidity:

55 ± 10 % 1010 ± 5 hPa

#### Test specifications

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

2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

#### Test results

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

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

Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huana Jian Mir

Approved Signatory:

Date:

01-Mar-2016

Company Chop:

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

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



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



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

16CA0226 04-01

Page

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: Sta		Expanded Uncertanity (dB) / Coverage Factor
Self-generated noise	Α	Pass	0.3
	C	Pass	1.0 2.1
	Lin	Pass	1.6 2.2
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
	C	Pass	0.3
	Lin	Pass	0.3
Time weightings	Single Burst Fast	Pass	0.3
	Single Burst Slow	Pass	0.3
Peak response	Single 100µs rectangular pulse	N/A	N/A
R.M.S. accuracy	Crest factor of 3	Pass	0.3
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3
	Repeated at frequency of 100 Hz	Pass	0.3
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3
	1 ms burst duty factor 1/104 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.

Calibrated by:

Pung Chi Yip 27-Feb-2016

End

Checked by:

Date:

Lam Tze Wai 01-Mar-2016

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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### CERTIFICATE OF CALIBRATION

Certificate No.:

15CA1203 04-02

Page:

of

2

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1) Rion Co., Ltd.

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Type/Model No.: Serial/Equipment No.: Adaptors used: NC-73 10707358

daptors docu.

Item submitted by

Lam Geotechnics Ltd.

Curstomer: Address of Customer:

.

Request No.:

-

Date of receipt:

03-Dec-2015

Date of test:

04-Dec-2015

#### Reference equipment used in the calibration

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

#### Ambient conditions

Temperature:

22 ± 1 °C 50 ± 10 %

Relative humidity: Air pressure:

1010 ± 5 hPa

#### Test specifications

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

#### Test results

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

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

Huang Jian Mir Feng Jun Qi

Approved Signatory:

Date:

05-Dec-2015

Company Chop:

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

Soils & Materials Engineering Co. Ltd

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA1203 04-02

Page:

2

2

1. Measured Sound Pressure Level

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

			(Output level in dB re 20 μPa
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.05	0.10

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

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

At 1000 Hz

STF = 0.002 dB

Estimated expanded uncertainty

0.005 dB

#### 3, Actual Output Frequency

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

At 1000 Hz

Actual Frequency = 992.8 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

#### 4, Total Noise and Distortion

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

At 1000 Hz

TND = 0.3 %

Estimated expanded uncertainty

0.7 %

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

Calibrated by:

Fnd

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Date:

Fung Chi Yip

Checked by:

Lam Tze Wa

04-Dec-2015

Date:

05-Dec-2015

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

Soils & Materials Engineering Co., Ltd.

Form No.CARP156-2/Issue 1/Rev.C/01/05/2005

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



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#### CERTIFICATE OF CALIBRATION

Certificate No.:

16CA1117 01-02

Page:

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Rion Co., Ltd.

Type/Model No.: Serial/Equipment No.: NC-73 10707358

Adaptors used:

Item submitted by

Curstomer:

Lam Geotechnics Ltd

Address of Customer:

Request No.:

Date of receipt:

17-Nov-2016

Date of test:

18-Nov-2016

#### Reference equipment used in the calibration

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

#### Ambient conditions

Temperature:

23 ± 1 °C

Relative humidity: Air pressure:

50 ± 10 % 1005 ± 5 hPa

#### Test specifications

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

#### Test results

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

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

Approved Signatory:

Date: 21-Nov-2016

Company Chop:

Huang Jian Min/Feng Jun Qi 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.

Soils & Materials Engineering Co., Ltd

Form No CARP156-1/Issue 1/Rev.D/01/03/2007



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## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate I	No .:
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16CA1117 01-02

Page:

C

2

1, Measured Sound Pressure Level

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

			(Output level in dB re 20 μPa)	
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB	
1000	94.00	94.12	0.10	

2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz

STF = 0.002 dB

Estimated expanded uncertainty

0.005 dB

3, Actual Output Frequency

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

At 1000 Hz

Actual Frequency = 991.6 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz

TND = 0.6 %

Estimated expanded uncertainty

0.7 %

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

- End

Calibrated by:

Funa Chi Yip

Checked by:

Lam Tze Wai

Date:

18-Nov-2016

Date:

21-Nov-2016

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.

Soils & Materials Engineering Co., Ltd.

Form No.CARP156-2/Issue 1/Rev.C/01/05/2005



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## CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0513 01-02

Page:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Rion Co., Ltd.

Serial/Equipment No.:

NC-73 10465798

Adaptors used:

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer:

Request No.

Date of receipt:

13-May-2016

Date of test:

17-May-2016

## Reference equipment used in the calibration

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

#### Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

55 ± 10 %

Air pressure:

1010 ± 5 hPa

#### Test specifications

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

#### Test results

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

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

Approved Signatory:

Date:

18-May-2016

Company Chop:

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

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Form No CARP156-1/Issue 1 Rev D/01/03/2007



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

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## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

16CA0513 01-02

Page

2

of

2

1, Measured Sound Pressure Level

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

Factor of the second			(Output level in dB re 20 µPa)
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.96	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 = 0.001 dB

Estimated expanded uncertainty

0.005 dB

## 3, Actual Output Frequency

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

At 1000 Hz

Actual Frequency = 967.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

#### 4, Total Noise and Distortion

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

At 1000 Hz

TND = 0.8 %

Estimated expanded uncertainty

0.7 %

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

Calibrated by:

End

Date:

Fung Chi Yip \ 17-May-2016 Checked by:

Date:

Lam Tze Wai 18-May-2016

17-Way-2016

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 CARP156-2/Issue 1/Rev C/01/05/2005



#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No.

: HK1610488

**Project Name** 

**EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT** 

Date of Issue

24/09/2016

Customer Address

: LAM GEOTECHNICS LIMITED

Calibration Job No.

11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

: HK1610488

Test Item No.

: HK1610488-01

**Test Item Details Test Item Description** 

Multifunctional Meter

Manufacturer Model No.

YSI YSI 600XL

Serial No.

05C1607

Performance Method

Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

**Test Item Receipt Date Test Item Calibration Date**  22-Sep-16 23-Sep-16

1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited. Notes:

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA

6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Ms. Wong Po Yan, Pauline (Testing Engineer)

Issue Date:

24/09/2016



WORK ORDER: HK1610488
DATE OF ISSUE: 24/09/2016

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	YSI 600XL	
Serial No.	05C1607	
Date of Calibration	23-Sep-16	
Date of next Calibation	23-Dec-16	

#### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.9	10.7	-0.2
17.0	16.9	-0.1
26.5	26.4	-0.1
To	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.00	4.01	0.01
7.0	7.00	6.88	-0.12
10.0	10.01	10.03	0.02
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.86	12.80	-0.47
0.2000	25.20	24.70	-1.98
0.5000	58.10	57.60	-0.86
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.62	8.69	0.07
6.22	6.34	0.12
4.12	4.19	0.07
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.
- (4) Due to the malfuction of pH sensor, there is no reading shown on the multimeter's screen. pH parameter is failed to comply with the tolerence.



#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No.

: HK1610503

**Project Name** 

EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue

29/09/2016

Customer Address

: LAM GEOTECHNICS LIMITED

11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. Test Item No.

HK1610503

: HK1610503-01

**Test Item Details Test Item Description** 

: Multifunctional Meter

Manufacturer Model No.

YSI

Serial No.

Professional Plus 14M100277

**Performance Method** 

Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

**Test Item Receipt Date Test Item Calibration Date**  28-Sep-16 28-Sep-16

- Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
  - 2. Results relate to item(s) as received.
  - 3. ± indicates the tolerance limit
  - 4. N/A = Not applicable
  - 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA

6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

32.1

Approved Signatory

Issue Date:

29/09/2016



WORK ORDER:

HK1610503

DATE OF ISSUE:

29/09/2016

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	28-Sep-16	
Date of next Calibation	28-Dec-16	

#### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical

Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
14.7	13.5	-1.2
23.6	24.8	1.2
32.1	34.0	1.9
Т	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.90	4.09	0.19
7.0	7.03	7.14	0.11
10.0	9.85	9.71	-0.14
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	13.17	13.03	-1.06
0.2000	25.03	25.02	-0.04
0.5000	58.02	58.20	0.31
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.36	8.20	-0.16
5.21	5.06	-0.15
4.90	4.82	-0.08
	Tolerance Limit	±0.20

#### Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.



Information supplied by customer:

**CONTACT:** 

MR. SAM LAM

WORK ORDER: HK1610515

CLIENT:

LAM GEOTECHNICS LIMITED

**DATE RECEIVED: 30/09/2016** DATE OF ISSUE:

15/10/2016

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

#### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

#### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	30/09/2016	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline

**Testing Engineer** 

Issue Date:

15/10/2016



WORK ORDER: H

HK1610515

DATE OF ISSUE:

15/10/2016

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	0.000
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	30/09/2016	
Date of next Calibation:	30/12/2016	

#### Parameters:

#### **Turbidity**

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.96	-1.0%	
10	10.0	0.0%	
40	39.1	-2.3%	
100	99.0	-1.0%	
400	400	0.0%	
1000	995	-0.5%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

CONTACT:

MR. SAM LAM

WORK ORDER: HK1610441

CLIENT:

LAM GEOTECHNICS LIMITED

**DATE RECEIVED: 02/09/2016** DATE OF ISSUE:

05/09/2016

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

#### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

#### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	341
Model No.:	WGZ-3B	
Serial No.:	1512046	20170
Equipment No.:		
Date of Calibration:	05/09/2016	

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline

Testing Engineer

Issue Date:

05/09/2016



WORK ORDER:

HK1610441

DATE OF ISSUE:

05/09/2016

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	0.000
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	05/09/2016	
Date of next Calibation:	05/12/2016	

#### Parameters:

**Turbidity** 

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.10	2.5%	
10	10.1	1.0%	
40	41.2	3.0%	
100	109	9.0%	
400	407	1.8%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

**CONTACT:** 

MR. SAM LAM

WORK ORDER: HK1610515

CLIENT:

LAM GEOTECHNICS LIMITED

**DATE RECEIVED: 30/09/2016** DATE OF ISSUE:

15/10/2016

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

#### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

#### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	30/09/2016	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline

**Testing Engineer** 

Issue Date:

15/10/2016



WORK ORDER: H

HK1610515

DATE OF ISSUE:

15/10/2016

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	0.000
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	30/09/2016	
Date of next Calibation:	30/12/2016	

#### Parameters:

#### **Turbidity**

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.96	-1.0%	
10	10.0	0.0%	
40	39.1	-2.3%	
100	99.0	-1.0%	
400	400	0.0%	
1000	995	-0.5%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

CONTACT:

MR. SAM LAM

WORK ORDER: HK1610507

CLIENT:

LAM GEOTECHNICS LIMITED

**DATE RECEIVED: 28/09/2016** DATE OF ISSUE:

29/09/2016

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

#### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

#### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	29/09/2016	

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Issue Date:

29/09/2016

Approved Signatory:

Ms. Wong Po Yan, Pauline

Testing Engineer



WORK ORDER:

HK1610507

**DATE OF ISSUE:** 29/09/2016

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	29/09/2016	
Date of next Calibation:	29/12/2016	

#### Parameters:

### **Turbidity**

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.99	-0.2%	
10	10.0	-0.4%	
40	40.0	0.0%	
100	101	1.0%	
400	400	0.0%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

## Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

#### Contract No. HK/2015/01

#### Wan Chai Development Phase II and Central-Wan Chai Bypass

#### Sampling, Field Measurement and Testing Works (Stage 3) Environmental Monitoring Schedule

#### November 2016

Sunday	Monday	Tuesday	Wednesday		Thursday	Friday	Saturday	
-		1-Nov		-Nov	3-Nov	4-No		5-No
			24hr TSP		1hr TSP			
			Impact WQM			Impact WQM		
				8:05		Mid-ebb 1:5		
				3:49		Mid-flood 9:3		
6-Nov	7-No	ov 8-Nov	9-	-Nov	10-Nov	11-No	v	12-No
		24hr TSP	1hr TSP					
	Impact WQM		Impact WQM			Impact WQM		
	Mid-ebb 4:1	9		6:53		Mid-ebb 9:1	4	
	Mid-flood 17:0			4:47		Mid-flood 15:5		
13-Nov	14-No			-Nov	17-Nov	18-No		19-No
	24hr TSP	1hr TSP					24hr TSP	
	24111 101	1111 101					24111 101	
	Impact WQM		Impact WQM			Impact WQM		
				7.40				
	Mid-ebb 11:5 Mid-flood 17:4			7:43 3:27		Mid-ebb 2:3 Mid-flood 9:3		
20-Nov	21-No			-Nov	24-Nov	25-No		26-No
20-1101	21-100	22-1100	23-	-INOV	24-INOV	25-110	v	20-110
						0.41 TOD	TOD	
	1hr TSP					24hr TSP	1hr TSP	
	Impact WQM		Impact WQM			Impact WQM		
	Mid-ebb 5:2			7:51		Mid-ebb 9:4		
	Mid-flood 12:5			4:47		Mid-flood 16:0	0	
	28-No	ov 29-Nov	30-	-Nov	1-Dec			
27-Nov								
27-Nov								
27-Nov								
27-Nov								
27-Nov								
27-Nov								
27-Nov								
27-Nov								
27-Nov								
27-No.								
27-Nov	Impact WOM		Impact WQM		Impact WQM			
27-Nov	Impact WOM	5	Impact WQM		Impact WQM			
27-No.	Impact WQM Mid-ebb 11:4 Mid-flood 17:1			8-00	Impact WQM Mid-ebb 0:53			

#### Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass

# Sampling, Field Measurement and Testing Works (Stage 3) Tentative Environmental Monitoring Schedule December 2016

			December	2010		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec	3-De
				24hr TSP	1hr TSP	
					Impact WQM	Impact WQM
					impact W QW	impact w givi
					Mid-flood 18:47	Mid-ebb 1:4:
4-Dec	5-De	6-Dec	7-Dec	8-Dec	9-Dec	10-De
			24hr TSP	1hr TSP		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 2:56		Mid-ebb 4:47		Mid-ebb 7:33	
11-Dec	Mid-flood 11:02 12-Dec		Mid-flood 12:53	15-Dec	Mid-flood 14:30 16-Dec	17-De
TI-Dec	12-Dei	13-Dec	14-Dec	i is-Dec	16-Dec	17-Del
		24hr TSP	1hr TSP			
	Impact WQM		Impact WQM			Impact WQM
	Mid-ebb 10:42	2	Mid-ebb 12:27			Mid-ebb 2:22
	Mid-flood 16:36		Mid-flood 18:01			Mid-flood 9:28
18-Dec	19-De	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
	24hr TSP	1hr TSP			24hr TSP	1hr TSP
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 3:54		Mid-ebb 5:30		Mid-flood 14:27	
25-Dec	Mid-flood 11:09 26-Dei	27-Dec	Mid-flood 12:55 28-Dec	29-Dec	Mid-ebb 21:35 30-Dec	31-De
25-Dec	26-Dei	27-Dec	28-Dec	29-Dec	30-Dec	31-Dei
				1		
				1		
			24hr TSP	1hr TSP		
	Impact WOM		Impact WOM	Impact WOM	Impact WOM	Impact WOM
	Impact WQM Mid-flood 16:00		Impact WQM	Impact WQM	Impact WQM	Impact WQM
	Mid-ebb 23:14	í	Mid-flood 17:07	Mid-ebb 0:09	Mid-flood 18:17	Mid-ebb 1:1:
	20.1		17.07	555	1000	1.1.

## Appendix 5.2

Continuous Noise Monitoring Results and Graphical Presentations

			, a				
Continuous Nois Normal Day 07:		Data ACL3 5/11/16 13:01	(City Hall) 63	11/11/16 7:31 51	16/11/16 14:01 64	22/11/16 8:31 57	26/11/16 15:01 63
1/11/16 7:01	62	5/11/16 13:31	64	11/11/16 8:01 64	16/11/16 14:31 64	22/11/16 9:01 58	26/11/16 15:31 70
1/11/16 7:31	63	5/11/16 14:01	63	11/11/16 8:31 64	16/11/16 15:01 64	22/11/16 9:31 59	26/11/16 16:01 73
1/11/16 8:01 1/11/16 8:31	64 55	5/11/16 14:31 5/11/16 15:01	63 64	11/11/16 9:01 64 11/11/16 9:31 53	16/11/16 15:31 63 16/11/16 16:01 64	22/11/16 10:01 60 22/11/16 10:31 58	26/11/16 16:31 80 26/11/16 17:01 78
1/11/16 9:01	50	5/11/16 15:31	63	11/11/16 10:01 64	16/11/16 16:31 64	22/11/16 11:01 56	26/11/16 17:31 76
1/11/16 9:31	64	5/11/16 16:01	64	11/11/16 10:31 31 11/11/16 11:01 64	16/11/16 17:01 64	22/11/16 11:31 56 22/11/16 12:01 58	26/11/16 18:01 69
1/11/16 10:01 1/11/16 10:31	53 64	5/11/16 16:31 5/11/16 17:01	63 63	11/11/16 11:01 64 11/11/16 11:31 64	16/11/16 17:31 63 16/11/16 18:01 64	22/11/16 12:01 58 22/11/16 12:31 64	26/11/16 18:31 65 28/11/16 7:01 62
1/11/16 11:01	64	5/11/16 17:31	63	11/11/16 12:01 64	16/11/16 18:31 63	22/11/16 13:01 64	28/11/16 7:31 63
1/11/16 11:31	64 63	5/11/16 18:01 5/11/16 18:31	64 63	11/11/16 12:31 64 11/11/16 13:01 64	17/11/16 7:01 61 17/11/16 7:31 63	22/11/16 13:31 64 22/11/16 14:01 45	28/11/16 8:01 64 28/11/16 8:31 64
1/11/16 12:01 1/11/16 12:31	63	7/11/16 7:01	62	11/11/16 13:01 64 11/11/16 13:31 64	17/11/16 7:31 63	22/11/16 14:01 45 22/11/16 14:31 58	28/11/16 8:31 64 28/11/16 9:01 64
1/11/16 13:01	64	7/11/16 7:31	64	11/11/16 14:01 55	17/11/16 8:31 64	22/11/16 15:01 64	28/11/16 9:31 64
1/11/16 13:31 1/11/16 14:01	64 64	7/11/16 8:01 7/11/16 8:31	64 64	11/11/16 14:31 64 11/11/16 15:01 48	17/11/16 9:01 64 17/11/16 9:31 41	22/11/16 15:31 64 22/11/16 16:01 52	28/11/16 10:01 64 28/11/16 10:31 64
1/11/16 14:31	64	7/11/16 9:01	64	11/11/16 15:31 64	17/11/16 9.31 41	22/11/16 16:31 57	28/11/16 10:31 64
1/11/16 15:01	37	7/11/16 9:31	64	11/11/16 16:01 54	17/11/16 10:31 64	22/11/16 17:01 53	28/11/16 11:31 64
1/11/16 15:31 1/11/16 16:01	64 64	7/11/16 10:01 7/11/16 10:31	49 64	11/11/16 16:31 51 11/11/16 17:01 64	17/11/16 11:01 64 17/11/16 11:31 64	22/11/16 17:31 56 22/11/16 18:01 59	28/11/16 12:01 64 28/11/16 12:31 64
1/11/16 16:31	40	7/11/16 11:01	63	11/11/16 17:31 64	17/11/16 12:01 64	22/11/16 18:31 58	28/11/16 13:01 64
1/11/16 17:01	64	7/11/16 11:31	63	11/11/16 18:01 64	17/11/16 12:31 48	23/11/16 7:01 61	28/11/16 13:31 64
1/11/16 17:31 1/11/16 18:01	64 64	7/11/16 12:01 7/11/16 12:31	64 63	11/11/16 18:31 64 12/11/16 7:01 61	17/11/16 13:01 64 17/11/16 13:31 64	23/11/16 7:31 64 23/11/16 8:01 64	28/11/16 14:01 54 28/11/16 14:31 64
1/11/16 18:31	64	7/11/16 13:01	64	12/11/16 7:31 62	17/11/16 14:01 64	23/11/16 8:31 52	28/11/16 15:01 49
2/11/16 7:01	62	7/11/16 13:31	64	12/11/16 8:01 63	17/11/16 14:31 64 17/11/16 15:01 64	23/11/16 9:01 52	28/11/16 15:31 64
2/11/16 7:31 2/11/16 8:01	63 64	7/11/16 14:01 7/11/16 14:31	64 64	12/11/16 8:31 64 12/11/16 9:01 64	17/11/16 15:01 64 17/11/16 15:31 64	23/11/16 9:31 59 23/11/16 10:01 55	28/11/16 16:01 58 28/11/16 16:31 64
2/11/16 8:31	64	7/11/16 15:01	49	12/11/16 9:31 64	17/11/16 16:01 48	23/11/16 10:31 57	28/11/16 17:01 45
2/11/16 9:01 2/11/16 9:31	64 56	7/11/16 15:31 7/11/16 16:01	64 64	12/11/16 10:01 64 12/11/16 10:31 64	17/11/16 16:31 64 17/11/16 17:01 64	23/11/16 11:01 56 23/11/16 11:31 58	28/11/16 17:31 63 28/11/16 18:01 64
2/11/16 9.31	50	7/11/16 16:01	64	12/11/16 10:31 64 12/11/16 11:01 55	17/11/16 17:01 64	23/11/16 11:31 56 23/11/16 12:01 57	28/11/16 18:31 63
2/11/16 10:31	64	7/11/16 17:01	64	12/11/16 11:31 48	17/11/16 18:01 64	23/11/16 12:31 56	29/11/16 7:01 61
2/11/16 11:01 2/11/16 11:31	64 63	7/11/16 17:31 7/11/16 18:01	64 40	12/11/16 12:01 48 12/11/16 12:31 57	17/11/16 18:31 64 18/11/16 7:01 61	23/11/16 13:01 58 23/11/16 13:31 60	29/11/16 7:31 63 29/11/16 8:01 64
2/11/16 11:31	63	7/11/16 18:31	52	12/11/16 12:31 37	18/11/16 7:31 63	23/11/16 13:31 60 23/11/16 14:01 62	29/11/16 8:31 64
2/11/16 12:31	63	8/11/16 7:01	62	12/11/16 13:31 52	18/11/16 8:01 64	23/11/16 14:31 56	29/11/16 9:01 64
2/11/16 13:01 2/11/16 13:31	64 64	8/11/16 7:31 8/11/16 8:01	64 64	12/11/16 14:01 51 12/11/16 14:31 56	18/11/16 8:31 64 18/11/16 9:01 53	23/11/16 15:01 55 23/11/16 15:31 55	29/11/16 9:31 64 29/11/16 10:01 64
2/11/16 14:01	64	8/11/16 8:31	54	12/11/16 15:01 54	18/11/16 9:31 52	23/11/16 16:01 52	29/11/16 10:31 64
2/11/16 14:31	64	8/11/16 9:01	54	12/11/16 15:31 53	18/11/16 10:01 56	23/11/16 16:31 52	29/11/16 11:01 64
2/11/16 15:01 2/11/16 15:31	64 63	8/11/16 9:31 8/11/16 10:01	52 56	12/11/16 16:01 60 12/11/16 16:31 62	18/11/16 10:31 64 18/11/16 11:01 57	23/11/16 17:01 64 23/11/16 17:31 64	29/11/16 11:31 64 29/11/16 12:01 64
2/11/16 16:01	64	8/11/16 10:31	51	12/11/16 17:01 63	18/11/16 11:31 64	23/11/16 18:01 64	29/11/16 12:31 63
2/11/16 16:31	64	8/11/16 11:01	64	12/11/16 17:31 52	18/11/16 12:01 63	23/11/16 18:31 64	29/11/16 13:01 63
2/11/16 17:01 2/11/16 17:31	64 64	8/11/16 11:31 8/11/16 12:01	64 63	12/11/16 18:01 53 12/11/16 18:31 48	18/11/16 12:31 64 18/11/16 13:01 64	24/11/16 7:01 60 24/11/16 7:31 63	29/11/16 13:31 63 29/11/16 14:01 64
2/11/16 18:01	63	8/11/16 12:31	64	14/11/16 7:01 62	18/11/16 13:31 64	24/11/16 8:01 63	29/11/16 14:31 64
2/11/16 18:31	63	8/11/16 13:01	64	14/11/16 7:31 63	18/11/16 14:01 64	24/11/16 8:31 64	29/11/16 15:01 64
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3/11/16 18:01 3/11/16 18:31	63 64	9/11/16 12:31 9/11/16 13:01	63 64	15/11/16 7:01 63 15/11/16 7:31 63	19/11/16 13:31 54 19/11/16 14:01 59	25/11/16 8:01 62 25/11/16 8:31 52	30/11/16 14:31 64 30/11/16 15:01 64
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5/11/16 7:01 5/11/16 7:31	56 62	10/11/16 13:31 10/11/16 14:01	48 56	16/11/16 8:01 64 16/11/16 8:31 64	21/11/16 14:31 64 21/11/16 15:01 64	26/11/16 9:01 60 26/11/16 9:31 64	1/11/16 20:06 64 1/11/16 20:11 63
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1/11/16 21:11	62	3/11/16 22:16 60	6/11/16 7:21 62	6/11/16 16:26 67	7/11/16 21:31 62	9/11/16 22:36 63
1/11/16 21:16 1/11/16 21:21	61 63	3/11/16 22:21 60 3/11/16 22:26 60	6/11/16 7:26 59 6/11/16 7:31 64	6/11/16 16:31 61 6/11/16 16:36 70	7/11/16 21:36 63 7/11/16 21:41 63	9/11/16 22:41 62 9/11/16 22:46 60
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1/11/16 22:01	61	4/11/16 19:06 63	6/11/16 8:11 63	6/11/16 17:16 67	7/11/16 22:21 62	10/11/16 19:26 69
1/11/16 22:06 1/11/16 22:11	61 63	4/11/16 19:11 54 4/11/16 19:16 64	6/11/16 8:16 64 6/11/16 8:21 62	6/11/16 17:21 67 6/11/16 17:26 65	7/11/16 22:26 61 7/11/16 22:31 61	10/11/16 19:31 67 10/11/16 19:36 68
1/11/16 22:16	62	4/11/16 19:21 64	6/11/16 8:26 62	6/11/16 17:31 68	7/11/16 22:36 61	10/11/16 19:41 69
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1/11/16 22:51	62	4/11/16 19:56 64	6/11/16 9:01 52	6/11/16 18:06 65	8/11/16 19:11 63	10/11/16 20:16 68
1/11/16 22:56 2/11/16 19:01	60 55	4/11/16 20:01 63 4/11/16 20:06 63	6/11/16 9:06 64 6/11/16 9:11 47	6/11/16 18:11 64 6/11/16 18:16 66	8/11/16 19:16 54 8/11/16 19:21 65	10/11/16 20:21 63 10/11/16 20:26 68
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2/11/16 21:51 2/11/16 21:56	61 61	4/11/16 22:56 60 5/11/16 19:01 63	6/11/16 12:01 61 6/11/16 12:06 61	6/11/16 21:06 52 6/11/16 21:11 57	8/11/16 22:11 62 8/11/16 22:16 63	11/11/16 19:16 63 11/11/16 19:21 64
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2/11/16 22:41 2/11/16 22:46	60 61	5/11/16 19:46 50 5/11/16 19:51 63	6/11/16 12:51 62 6/11/16 12:56 59	6/11/16 21:56 62 6/11/16 22:01 62	9/11/16 19:01 63 9/11/16 19:06 63	11/11/16 20:06 63 11/11/16 20:11 57
2/11/16 22:51	62	5/11/16 19:56 64	6/11/16 13:01 57	6/11/16 22:06 62	9/11/16 19:11 52	11/11/16 20:16 55
2/11/16 22:56 3/11/16 19:01	61 47	5/11/16 20:01 63 5/11/16 20:06 62	6/11/16 13:06 60 6/11/16 13:11 59	6/11/16 22:11 61 6/11/16 22:16 61	9/11/16 19:16 63 9/11/16 19:21 52	11/11/16 20:21 63 11/11/16 20:26 63
3/11/16 19:06	63	5/11/16 20:00 62	6/11/16 13:16 60	6/11/16 22:21 61	9/11/16 19:26 63	11/11/16 20:31 63
3/11/16 19:11 3/11/16 19:16	63 63	5/11/16 20:16 63 5/11/16 20:21 62	6/11/16 13:21 63	6/11/16 22:26 60	9/11/16 19:31 63 9/11/16 19:36 64	11/11/16 20:36 63
3/11/16 19:16	55	5/11/16 20:21 62 5/11/16 20:26 63	6/11/16 13:26 64 6/11/16 13:31 67	6/11/16 22:31 60 6/11/16 22:36 61	9/11/16 19:36 64 9/11/16 19:41 59	11/11/16 20:41 63 11/11/16 20:46 63
3/11/16 19:26	63	5/11/16 20:31 62	6/11/16 13:36 68	6/11/16 22:41 60	9/11/16 19:46 64	11/11/16 20:51 63
3/11/16 19:31 3/11/16 19:36	64 63	5/11/16 20:36 62 5/11/16 20:41 62	6/11/16 13:41 63 6/11/16 13:46 61	6/11/16 22:46 60 6/11/16 22:51 60	9/11/16 19:51 63 9/11/16 19:56 63	11/11/16 20:56 63 11/11/16 21:01 63
3/11/16 19:41	64	5/11/16 20:46 62	6/11/16 13:51 61	6/11/16 22:56 60	9/11/16 20:01 63	11/11/16 21:06 47
3/11/16 19:46 3/11/16 19:51	63 63	5/11/16 20:51 62 5/11/16 20:56 62	6/11/16 13:56 65 6/11/16 14:01 64	7/11/16 19:01 55 7/11/16 19:06 60	9/11/16 20:06 64 9/11/16 20:11 63	11/11/16 21:11 62 11/11/16 21:16 62
3/11/16 19:56	63	5/11/16 21:01 62	6/11/16 14:06 64	7/11/16 19:11 57	9/11/16 20:16 63	11/11/16 21:21 63
3/11/16 20:01	64	5/11/16 21:06 62	6/11/16 14:11 62	7/11/16 19:16 58	9/11/16 20:21 63	11/11/16 21:26 63
3/11/16 20:06 3/11/16 20:11	62 63	5/11/16 21:11 61 5/11/16 21:16 63	6/11/16 14:16 64 6/11/16 14:21 63	7/11/16 19:21 61 7/11/16 19:26 54	9/11/16 20:26 63 9/11/16 20:31 63	11/11/16 21:31 58 11/11/16 21:36 62
3/11/16 20:16	47	5/11/16 21:21 62	6/11/16 14:26 62	7/11/16 19:31 50	9/11/16 20:36 63	11/11/16 21:41 63
3/11/16 20:21 3/11/16 20:26	62 62	5/11/16 21:26 62 5/11/16 21:31 55	6/11/16 14:31 65 6/11/16 14:36 65	7/11/16 19:36 55 7/11/16 19:41 56	9/11/16 20:41 62 9/11/16 20:46 62	11/11/16 21:46 63 11/11/16 21:51 63
3/11/16 20:31	63	5/11/16 21:36 62	6/11/16 14:41 65	7/11/16 19:46 59	9/11/16 20:51 62	11/11/16 21:56 63
3/11/16 20:36	62	5/11/16 21:41 61	6/11/16 14:46 63 6/11/16 14:51 66	7/11/16 19:51 64	9/11/16 20:56 61	11/11/16 22:01 62
3/11/16 20:41 3/11/16 20:46	62 62	5/11/16 21:46 63 5/11/16 21:51 61	6/11/16 14:51 66 6/11/16 14:56 67	7/11/16 19:56 54 7/11/16 20:01 52	9/11/16 21:01 61 9/11/16 21:06 61	11/11/16 22:06 62 11/11/16 22:11 61
3/11/16 20:51	61	5/11/16 21:56 61	6/11/16 15:01 67	7/11/16 20:06 64	9/11/16 21:11 61	11/11/16 22:16 62
3/11/16 20:56 3/11/16 21:01	62 63	5/11/16 22:01 61 5/11/16 22:06 62	6/11/16 15:06 69 6/11/16 15:11 66	7/11/16 20:11 64 7/11/16 20:16 61	9/11/16 21:16 61 9/11/16 21:21 61	11/11/16 22:21 62 11/11/16 22:26 62
3/11/16 21:06	61	5/11/16 22:11 61	6/11/16 15:16 65	7/11/16 20:21 63	9/11/16 21:26 59	11/11/16 22:31 62
3/11/16 21:11	64	5/11/16 22:16 62	6/11/16 15:21 65 6/11/16 15:26 65	7/11/16 20:26 64	9/11/16 21:31 61	11/11/16 22:36 63
3/11/16 21:16 3/11/16 21:21	62 62	5/11/16 22:21 62 5/11/16 22:26 62	6/11/16 15:26 65 6/11/16 15:31 68	7/11/16 20:31 64 7/11/16 20:36 63	9/11/16 21:36 60 9/11/16 21:41 61	11/11/16 22:41 61 11/11/16 22:46 61
3/11/16 21:26	62	5/11/16 22:31 52	6/11/16 15:36 68	7/11/16 20:41 63	9/11/16 21:46 61	11/11/16 22:51 62
3/11/16 21:31 3/11/16 21:36	62 62	5/11/16 22:36 62 5/11/16 22:41 63	6/11/16 15:41 64 6/11/16 15:46 65	7/11/16 20:46 63 7/11/16 20:51 63	9/11/16 21:51 61 9/11/16 21:56 61	11/11/16 22:56 61 12/11/16 19:01 59
3/11/16 21:41	63	5/11/16 22:46 62	6/11/16 15:51 65	7/11/16 20:56 56	9/11/16 22:01 61	12/11/16 19:06 59
3/11/16 21:46 3/11/16 21:51	60 61	5/11/16 22:51 61 5/11/16 22:56 62	6/11/16 15:56 66 6/11/16 16:01 62	7/11/16 21:01 58 7/11/16 21:06 63	9/11/16 22:06 62 9/11/16 22:11 62	12/11/16 19:11 60 12/11/16 19:16 60
3/11/16 21:56	60	6/11/16 7:01 59	6/11/16 16:06 63	7/11/16 21:11 63	9/11/16 22:16 62	12/11/16 19:21 60
3/11/16 22:01	61 61	6/11/16 7:06 61 6/11/16 7:11 62	6/11/16 16:11 63	7/11/16 21:16 60	9/11/16 22:21 62	12/11/16 19:26 57
3/11/16 22:06	61	6/11/16 7:11 62	6/11/16 16:16 65	7/11/16 21:21 62	9/11/16 22:26 62	12/11/16 19:31 62

Continuous Noise Monitoring 12/11/16 19:36 64	Data ACL3 (City Hall) 13/11/16 12:41 70	13/11/16 21:46 63	15/11/16 22:51 62	18/11/16 19:56 55	20/11/16 9:01 63
12/11/16 19:41 64	13/11/16 12:46 69	13/11/16 21:51 62	15/11/16 22:56 61	18/11/16 20:01 64	20/11/16 9:06 63
12/11/16 19:46 61 12/11/16 19:51 62	13/11/16 12:51 69 13/11/16 12:56 67	13/11/16 21:56 63 13/11/16 22:01 62	16/11/16 19:01 63 16/11/16 19:06 63	18/11/16 20:06 67 18/11/16 20:11 55	20/11/16 9:11 63 20/11/16 9:16 62
12/11/16 19:56 62	13/11/16 13:01 68	13/11/16 22:06 62	16/11/16 19:11 63	18/11/16 20:16 56	20/11/16 9:21 63
12/11/16 20:01 58 12/11/16 20:06 63	13/11/16 13:06 71 13/11/16 13:11 70	13/11/16 22:11 62 13/11/16 22:16 63	16/11/16 19:16 63 16/11/16 19:21 64	18/11/16 20:21 52 18/11/16 20:26 64	20/11/16 9:26 63 20/11/16 9:31 63
12/11/16 20:00 63	13/11/16 13:11 70	13/11/16 22:16 63	16/11/16 19:21 64 16/11/16 19:26 63	18/11/16 20:31 64	20/11/16 9:36 63
12/11/16 20:16 64	13/11/16 13:21 67	13/11/16 22:26 61	16/11/16 19:31 64	18/11/16 20:36 64	20/11/16 9:41 63
12/11/16 20:21 59 12/11/16 20:26 61	13/11/16 13:26 68 13/11/16 13:31 71	13/11/16 22:31 61 13/11/16 22:36 62	16/11/16 19:36 47 16/11/16 19:41 47	18/11/16 20:41 50 18/11/16 20:46 54	20/11/16 9:46 57 20/11/16 9:51 50
12/11/16 20:31 64	13/11/16 13:36 72	13/11/16 22:41 61	16/11/16 19:46 64	18/11/16 20:51 59	20/11/16 9:56 63
12/11/16 20:36 54 12/11/16 20:41 58	13/11/16 13:41 69 13/11/16 13:46 71	13/11/16 22:46 61 13/11/16 22:51 61	16/11/16 19:51 64 16/11/16 19:56 64	18/11/16 20:56 61 18/11/16 21:01 64	20/11/16 10:01 63 20/11/16 10:06 56
12/11/16 20:46 60	13/11/16 13:51 68	13/11/16 22:56 61	16/11/16 20:01 63	18/11/16 21:06 63	20/11/16 10:11 63
12/11/16 20:51 67 12/11/16 20:56 65	13/11/16 13:56 68 13/11/16 14:01 68	14/11/16 19:01 55 14/11/16 19:06 59	16/11/16 20:06 63 16/11/16 20:11 63	18/11/16 21:11 52 18/11/16 21:16 57	20/11/16 10:16 55 20/11/16 10:21 50
12/11/16 20:30 63	13/11/16 14:01 08	14/11/16 19:00 39	16/11/16 20:16 63	18/11/16 21:10 37	20/11/16 10:21 30
12/11/16 21:06 59	13/11/16 14:11 68	14/11/16 19:16 63	16/11/16 20:21 63	18/11/16 21:26 50	20/11/16 10:31 57
12/11/16 21:11 64 12/11/16 21:16 66	13/11/16 14:16 63 13/11/16 14:21 64	14/11/16 19:21 47 14/11/16 19:26 64	16/11/16 20:26 62 16/11/16 20:31 63	18/11/16 21:31 47 18/11/16 21:36 58	20/11/16 10:36 58 20/11/16 10:41 55
12/11/16 21:21 64	13/11/16 14:26 67	14/11/16 19:31 61	16/11/16 20:36 62	18/11/16 21:41 50	20/11/16 10:46 58
12/11/16 21:26 64 12/11/16 21:31 64	13/11/16 14:31 68 13/11/16 14:36 67	14/11/16 19:36 64 14/11/16 19:41 64	16/11/16 20:41 62 16/11/16 20:46 62	18/11/16 21:46 55 18/11/16 21:51 55	20/11/16 10:51 63 20/11/16 10:56 59
12/11/16 21:36 63	13/11/16 14:41 71	14/11/16 19:46 55	16/11/16 20:51 54	18/11/16 21:56 50	20/11/16 11:01 62
12/11/16 21:41 61 12/11/16 21:46 67	13/11/16 14:46 70 13/11/16 14:51 70	14/11/16 19:51 64 14/11/16 19:56 64	16/11/16 20:56 54 16/11/16 21:01 62	18/11/16 22:01 63 18/11/16 22:06 63	20/11/16 11:06 60 20/11/16 11:11 60
12/11/16 21:51 67	13/11/16 14:56 69	14/11/16 20:01 64	16/11/16 21:06 62	18/11/16 22:11 63	20/11/16 11:16 57
12/11/16 21:56 70	13/11/16 15:01 70 13/11/16 15:06 68	14/11/16 20:06 63 14/11/16 20:11 63	16/11/16 21:11 62	18/11/16 22:16 54 18/11/16 22:21 68	20/11/16 11:21 62
12/11/16 22:01 62 12/11/16 22:06 57	13/11/16 15:06 68 13/11/16 15:11 73	14/11/16 20:11 63 14/11/16 20:16 64	16/11/16 21:16 62 16/11/16 21:21 62	18/11/16 22:21 68 18/11/16 22:26 55	20/11/16 11:26 61 20/11/16 11:31 66
12/11/16 22:11 64	13/11/16 15:16 73	14/11/16 20:21 47	16/11/16 21:26 47	18/11/16 22:31 64	20/11/16 11:36 66
12/11/16 22:16 56 12/11/16 22:21 47	13/11/16 15:21 73 13/11/16 15:26 68	14/11/16 20:26 63 14/11/16 20:31 63	16/11/16 21:31 62 16/11/16 21:36 62	18/11/16 22:36 52 18/11/16 22:41 54	20/11/16 11:41 68 20/11/16 11:46 65
12/11/16 22:26 64	13/11/16 15:31 67	14/11/16 20:36 63	16/11/16 21:30 62	18/11/16 22:46 63	20/11/16 11:51 67
12/11/16 22:31 55	13/11/16 15:36 70	14/11/16 20:41 64	16/11/16 21:46 62	18/11/16 22:51 55	20/11/16 11:56 60
12/11/16 22:36 63 12/11/16 22:41 63	13/11/16 15:41 68 13/11/16 15:46 68	14/11/16 20:46 63 14/11/16 20:51 63	16/11/16 21:51 62 16/11/16 21:56 62	18/11/16 22:56 63 19/11/16 19:01 65	20/11/16 12:01 64 20/11/16 12:06 62
12/11/16 22:46 63	13/11/16 15:51 73	14/11/16 20:56 63	16/11/16 22:01 61	19/11/16 19:06 61	20/11/16 12:11 64
12/11/16 22:51 62 12/11/16 22:56 62	13/11/16 15:56 75 13/11/16 16:01 74	14/11/16 21:01 64 14/11/16 21:06 63	16/11/16 22:06 60 16/11/16 22:11 60	19/11/16 19:11 62 19/11/16 19:16 63	20/11/16 12:16 62 20/11/16 12:21 64
13/11/16 7:01 60	13/11/16 16:06 70	14/11/16 21:11 63	16/11/16 22:11 60	19/11/16 19:21 67	20/11/16 12:26 61
13/11/16 7:06 60	13/11/16 16:11 67	14/11/16 21:16 63	16/11/16 22:21 61	19/11/16 19:26 65	20/11/16 12:31 63
13/11/16 7:11 60 13/11/16 7:16 59	13/11/16 16:16 68 13/11/16 16:21 69	14/11/16 21:21 52 14/11/16 21:26 63	16/11/16 22:26 62 16/11/16 22:31 61	19/11/16 19:31 64 19/11/16 19:36 63	20/11/16 12:36 65 20/11/16 12:41 68
13/11/16 7:21 61	13/11/16 16:26 68	14/11/16 21:31 63	16/11/16 22:36 60	19/11/16 19:41 63	20/11/16 12:46 68
13/11/16 7:26 61 13/11/16 7:31 61	13/11/16 16:31 69 13/11/16 16:36 71	14/11/16 21:36 63 14/11/16 21:41 62	16/11/16 22:41 61 16/11/16 22:46 60	19/11/16 19:46 60 19/11/16 19:51 59	20/11/16 12:51 65 20/11/16 12:56 63
13/11/16 7:36 63	13/11/16 16:36 71	14/11/16 21:41 62	16/11/16 22:46 60	19/11/16 19:51 59	20/11/16 12:56 63
13/11/16 7:41 62	13/11/16 16:46 68	14/11/16 21:51 63	16/11/16 22:56 60	19/11/16 20:01 65	20/11/16 13:06 64
13/11/16 7:46 62 13/11/16 7:51 61	13/11/16 16:51 69 13/11/16 16:56 69	14/11/16 21:56 61 14/11/16 22:01 61	17/11/16 19:01 64 17/11/16 19:06 63	19/11/16 20:06 65 19/11/16 20:11 65	20/11/16 13:11 64 20/11/16 13:16 64
13/11/16 7:56 62	13/11/16 17:01 70	14/11/16 22:06 63	17/11/16 19:11 62	19/11/16 20:16 60	20/11/16 13:21 63
13/11/16 8:01 62	13/11/16 17:06 69	14/11/16 22:11 62	17/11/16 19:16 50	19/11/16 20:21 62	20/11/16 13:26 63
13/11/16 8:06 63 13/11/16 8:11 62	13/11/16 17:11 71 13/11/16 17:16 69	14/11/16 22:16 61 14/11/16 22:21 61	17/11/16 19:21 63 17/11/16 19:26 63	19/11/16 20:26 63 19/11/16 20:31 63	20/11/16 13:31 66 20/11/16 13:36 62
13/11/16 8:16 62	13/11/16 17:21 69	14/11/16 22:26 61	17/11/16 19:31 63	19/11/16 20:36 62	20/11/16 13:41 64
13/11/16 8:21 62 13/11/16 8:26 63	13/11/16 17:26 76 13/11/16 17:31 78	14/11/16 22:31 62 14/11/16 22:36 61	17/11/16 19:36 63 17/11/16 19:41 63	19/11/16 20:41 63 19/11/16 20:46 47	20/11/16 13:46 62 20/11/16 13:51 64
13/11/16 8:31 63	13/11/16 17:36 71	14/11/16 22:41 62	17/11/16 19:46 63	19/11/16 20:51 50	20/11/16 13:56 63
13/11/16 8:36 63	13/11/16 17:41 72	14/11/16 22:46 61	17/11/16 19:51 63	19/11/16 20:56 47	20/11/16 14:01 64
13/11/16 8:41 63 13/11/16 8:46 63	13/11/16 17:46 71 13/11/16 17:51 73	14/11/16 22:51 61 14/11/16 22:56 59	17/11/16 19:56 64 17/11/16 20:01 63	19/11/16 21:01 63 19/11/16 21:06 64	20/11/16 14:06 64 20/11/16 14:11 65
13/11/16 8:51 63	13/11/16 17:56 71	15/11/16 19:01 56	17/11/16 20:06 64	19/11/16 21:11 65	20/11/16 14:16 63
13/11/16 8:56 55 13/11/16 9:01 60	13/11/16 18:01 71 13/11/16 18:06 73	15/11/16 19:06 55 15/11/16 19:11 50	17/11/16 20:11 63 17/11/16 20:16 63	19/11/16 21:16 65 19/11/16 21:21 66	20/11/16 14:21 65 20/11/16 14:26 64
13/11/16 9:06 55	13/11/16 18:11 74	15/11/16 19:16 64	17/11/16 20:21 63	19/11/16 21:26 67	20/11/16 14:31 69
13/11/16 9:11 62	13/11/16 18:16 69	15/11/16 19:21 55 15/11/16 19:26 63	17/11/16 20:26 62	19/11/16 21:31 65	20/11/16 14:36 67
13/11/16 9:16 64 13/11/16 9:21 60	13/11/16 18:21 66 13/11/16 18:26 64	15/11/16 19:26 63 15/11/16 19:31 52	17/11/16 20:31 63 17/11/16 20:36 62	19/11/16 21:36 66 19/11/16 21:41 65	20/11/16 14:41 71 20/11/16 14:46 69
13/11/16 9:26 62	13/11/16 18:31 65	15/11/16 19:36 63	17/11/16 20:41 62	19/11/16 21:46 62	20/11/16 14:51 68
13/11/16 9:31 62 13/11/16 9:36 66	13/11/16 18:36 64 13/11/16 18:41 64	15/11/16 19:41 63 15/11/16 19:46 64	17/11/16 20:46 63 17/11/16 20:51 63	19/11/16 21:51 54 19/11/16 21:56 55	20/11/16 14:56 65 20/11/16 15:01 66
13/11/16 9:41 63	13/11/16 18:46 64	15/11/16 19:51 63	17/11/16 20:56 63	19/11/16 22:01 61	20/11/16 15:06 66
13/11/16 9:46 65	13/11/16 18:51 64	15/11/16 19:56 63	17/11/16 21:01 63	19/11/16 22:06 63	20/11/16 15:11 65
13/11/16 9:51 60 13/11/16 9:56 62	13/11/16 18:56 63 13/11/16 19:01 63	15/11/16 20:01 47 15/11/16 20:06 63	17/11/16 21:06 62 17/11/16 21:11 47	19/11/16 22:11 64 19/11/16 22:16 58	20/11/16 15:16 69 20/11/16 15:21 69
13/11/16 10:01 59	13/11/16 19:06 69	15/11/16 20:11 62	17/11/16 21:16 63	19/11/16 22:21 61	20/11/16 15:26 67
13/11/16 10:06 63 13/11/16 10:11 61	13/11/16 19:11 67 13/11/16 19:16 65	15/11/16 20:16 63 15/11/16 20:21 63	17/11/16 21:21 63 17/11/16 21:26 63	19/11/16 22:26 61 19/11/16 22:31 59	20/11/16 15:31 68 20/11/16 15:36 69
13/11/16 10:16 62	13/11/16 19:21 63	15/11/16 20:26 64	17/11/16 21:31 62	19/11/16 22:36 59	20/11/16 15:41 68
13/11/16 10:21 63 13/11/16 10:26 61	13/11/16 19:26 64 13/11/16 19:31 65	15/11/16 20:31 64 15/11/16 20:36 63	17/11/16 21:36 63 17/11/16 21:41 61	19/11/16 22:41 61 19/11/16 22:46 62	20/11/16 15:46 68 20/11/16 15:51 68
13/11/16 10:26 61	13/11/16 19:36 64	15/11/16 20:41 64	17/11/16 21:46 62	19/11/16 22:51 60	20/11/16 15:56 66
13/11/16 10:36 66	13/11/16 19:41 64	15/11/16 20:46 63	17/11/16 21:51 63	19/11/16 22:56 58	20/11/16 16:01 66
13/11/16 10:41 73 13/11/16 10:46 72	13/11/16 19:46 65 13/11/16 19:51 63	15/11/16 20:51 58 15/11/16 20:56 47	17/11/16 21:56 63 17/11/16 22:01 62	20/11/16 7:01 59 20/11/16 7:06 59	20/11/16 16:06 66 20/11/16 16:11 69
13/11/16 10:51 62	13/11/16 19:56 62	15/11/16 21:01 62	17/11/16 22:06 61	20/11/16 7:11 60	20/11/16 16:16 68
13/11/16 10:56 63 13/11/16 11:01 65	13/11/16 20:01 60 13/11/16 20:06 64	15/11/16 21:06 63 15/11/16 21:11 63	17/11/16 22:11 61 17/11/16 22:16 61	20/11/16 7:16 59 20/11/16 7:21 62	20/11/16 16:21 69 20/11/16 16:26 69
13/11/16 11:06 64	13/11/16 20:11 61	15/11/16 21:16 63	17/11/16 22:21 61	20/11/16 7:26 63	20/11/16 16:26 69 20/11/16 16:31 68
13/11/16 11:11 72	13/11/16 20:16 61	15/11/16 21:21 63	17/11/16 22:26 61	20/11/16 7:31 61	20/11/16 16:36 69
13/11/16 11:16 72 13/11/16 11:21 71	13/11/16 20:21 62 13/11/16 20:26 61	15/11/16 21:26 62 15/11/16 21:31 63	17/11/16 22:31 62 17/11/16 22:36 61	20/11/16 7:36 61 20/11/16 7:41 63	20/11/16 16:41 69 20/11/16 16:46 69
13/11/16 11:26 72	13/11/16 20:31 60	15/11/16 21:36 63	17/11/16 22:41 62	20/11/16 7:46 62	20/11/16 16:51 69
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13/11/16 12:01 67	13/11/16 21:06 55	15/11/16 22:11 62	18/11/16 19:16 64	20/11/16 8:21 62	20/11/16 17:26 66
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13/11/16 12:11 68 13/11/16 12:16 72	13/11/16 21:16 64 13/11/16 21:21 55	15/11/16 22:21 61 15/11/16 22:26 62	18/11/16 19:26 62 18/11/16 19:31 55	20/11/16 8:31 62 20/11/16 8:36 62	20/11/16 17:36 65 20/11/16 17:41 66
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O-ntinuos Nair		AOLO (O:4: 11-II)				
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1/11/16   2.26   56   2/11/16   3.31   55   3/11/6   4.36   57   3/11/6   5.46   57   5/11/6   5.66   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   57   5/11/6   5.56   5/11/6   5/16						
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1/11/16 5:26         57         2/11/16 6:31         59         3/11/16 2:36         57         5/11/16 0:41         56         6/11/16 1:46         57         7/11/16 2:51         56           1/11/16 5:31         57         2/11/16 6:36         59         3/11/16 2:34         56         5/11/16 0:46         56         6/11/16 1:51         60         7/11/16 2:51         56           1/11/16 5:36         58         2/11/16 6:46         49         3/11/16 2:34         56         5/11/16 0:51         55         6/11/16 1:56         58         7/11/16 3:06         57           1/11/16 5:46         58         2/11/16 6:46         49         3/11/16 2:351         56         5/11/16 0:56         55         6/11/16 2:01         57         7/11/16 3:06         57           1/11/16 5:46         58         2/11/16 6:51         50         3/11/16 2:356         57         5/11/16 0:06         56         6/11/16 2:01         57         7/11/16 3:06         58         7/11/16 3:01         56         6/11/16 2:01         58         7/11/16 3:01         56         1/11/16 0:06         56         6/11/16 2:01         58         7/11/16 3:01         56         6/11/16 2:01         58         7/11/16 3:01         56         5/11/16 1:01         56						
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1/11/16 6:11         58         2/11/16 23:16         58         4/11/16 0:21         56         5/11/16 1:26         57         6/11/16 2:31         57         7/11/16 3:36         56           1/11/16 6:16         59         2/11/16 23:21         58         4/11/16 0:26         55         5/11/16 1:31         57         6/11/16 2:36         57         7/11/16 3:41         56           1/11/16 6:21         59         2/11/16 23:26         58         4/11/16 0:31         55         5/11/16 1:36         57         6/11/16 2:41         57         7/11/16 3:46         56						
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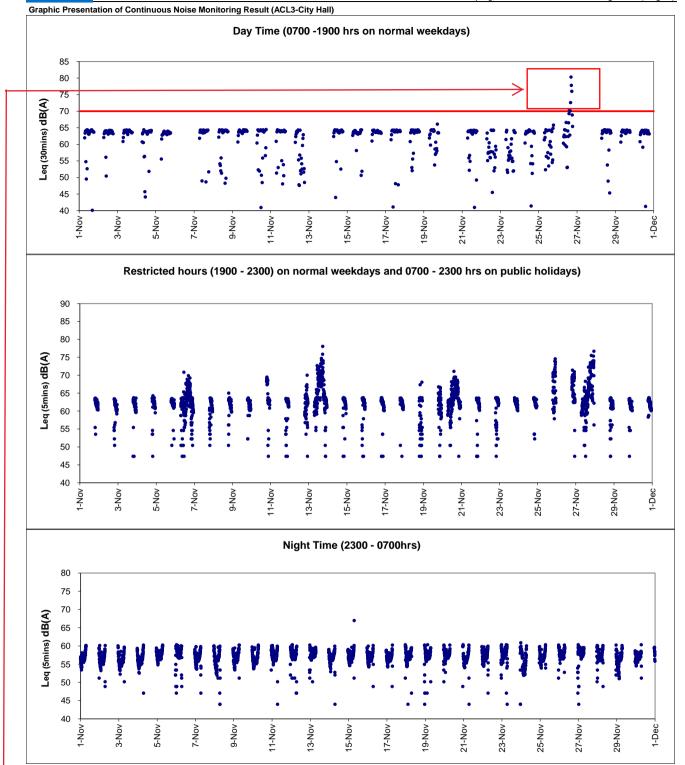
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7/11/16 5:31 7/11/16 5:36	59 58	8/11/16 6:36 60 8/11/16 6:41 44	9/11/16 23:41 57 9/11/16 23:46 57	11/11/16 0:46 60 11/11/16 0:51 56	12/11/16 1:51 58 12/11/16 1:56 58	13/11/16 2:56 58 13/11/16 3:01 58
7/11/16 5:41	58	8/11/16 6:46 44	9/11/16 23:51 56	11/11/16 0:56 59	12/11/16 2:01 58	13/11/16 3:06 57
7/11/16 5:46 7/11/16 5:51	58 58	8/11/16 6:51 53 8/11/16 6:56 51	9/11/16 23:56 57 10/11/16 0:01 56	11/11/16 1:01 56 11/11/16 1:06 57	12/11/16 2:06 58 12/11/16 2:11 58	13/11/16 3:11 58 13/11/16 3:16 58
7/11/16 5:56	58	8/11/16 23:01 59	10/11/16 0:06 56	11/11/16 1:06 57	12/11/16 2:11 58 12/11/16 2:16 57	13/11/16 3:16 58
7/11/16 6:01	58	8/11/16 23:06 59	10/11/16 0:11 56	11/11/16 1:16 57	12/11/16 2:21 58	13/11/16 3:26 58
7/11/16 6:06 7/11/16 6:11	58 59	8/11/16 23:11 58 8/11/16 23:16 58	10/11/16 0:16 56 10/11/16 0:21 56	11/11/16 1:21 58 11/11/16 1:26 57	12/11/16 2:26 59 12/11/16 2:31 58	13/11/16 3:31 59 13/11/16 3:36 57
7/11/16 6:16	59	8/11/16 23:21 59	10/11/16 0:21 56	11/11/16 1:26 57	12/11/16 2:31 38 12/11/16 2:36 57	13/11/16 3:41 57
7/11/16 6:21	59	8/11/16 23:26 59	10/11/16 0:31 55	11/11/16 1:36 55	12/11/16 2:41 57	13/11/16 3:46 58
7/11/16 6:26 7/11/16 6:31	59 60	8/11/16 23:31 58 8/11/16 23:36 57	10/11/16 0:36 56 10/11/16 0:41 55	11/11/16 1:41 55 11/11/16 1:46 58	12/11/16 2:46 57 12/11/16 2:51 58	13/11/16 3:51 57 13/11/16 3:56 57
7/11/16 6:36	60	8/11/16 23:41 56	10/11/16 0:41 53	11/11/16 1:40 36	12/11/16 2:56 57	13/11/16 4:01 58
7/11/16 6:41	52	8/11/16 23:46 56	10/11/16 0:51 54	11/11/16 1:56 59	12/11/16 3:01 57	13/11/16 4:06 57
7/11/16 6:46	47 54	8/11/16 23:51 57 8/11/16 23:56 57	10/11/16 0:56 54 10/11/16 1:01 54	11/11/16 2:01 58 11/11/16 2:06 58	12/11/16 3:06 57 12/11/16 3:11 57	13/11/16 4:11 57
7/11/16 6:51 7/11/16 6:56	54	8/11/16 23:56 57 9/11/16 0:01 57	10/11/16 1:01 54 10/11/16 1:06 55	11/11/16 2:06 58 11/11/16 2:11 58	12/11/16 3:11 57 12/11/16 3:16 57	13/11/16 4:16 57 13/11/16 4:21 57
7/11/16 23:01	60	9/11/16 0:06 57	10/11/16 1:11 54	11/11/16 2:16 57	12/11/16 3:21 57	13/11/16 4:26 57
7/11/16 23:06 7/11/16 23:11	59 59	9/11/16 0:11 56 9/11/16 0:16 55	10/11/16 1:16 55 10/11/16 1:21 54	11/11/16 2:21 57 11/11/16 2:26 57	12/11/16 3:26 57 12/11/16 3:31 57	13/11/16 4:31 58 13/11/16 4:36 58
7/11/16 23:16	60	9/11/16 0:16 33	10/11/16 1:26 54	11/11/16 2:20 37	12/11/16 3:36 58	13/11/16 4:41 59
7/11/16 23:21	60	9/11/16 0:26 55	10/11/16 1:31 54	11/11/16 2:36 56	12/11/16 3:41 57	13/11/16 4:46 57
7/11/16 23:26 7/11/16 23:31	59 59	9/11/16 0:31 55 9/11/16 0:36 55	10/11/16 1:36 55 10/11/16 1:41 55	11/11/16 2:41 56 11/11/16 2:46 57	12/11/16 3:46 57 12/11/16 3:51 58	13/11/16 4:51 57 13/11/16 4:56 57
7/11/16 23:36	59 57	9/11/16 0:36 55 9/11/16 0:41 56	10/11/16 1:41 55	11/11/16 2:46 57	12/11/16 3:56 58	13/11/16 5:01 57
7/11/16 23:41	57	9/11/16 0:46 55	10/11/16 1:51 56	11/11/16 2:56 56	12/11/16 4:01 58	13/11/16 5:06 57
7/11/16 23:46	58	9/11/16 0:51 54	10/11/16 1:56 59	11/11/16 3:01 57	12/11/16 4:06 58	13/11/16 5:11 58
7/11/16 23:51 7/11/16 23:56	58 56	9/11/16 0:56 54 9/11/16 1:01 54	10/11/16 2:01 59 10/11/16 2:06 60	11/11/16 3:06 58 11/11/16 3:11 56	12/11/16 4:11 58 12/11/16 4:16 58	13/11/16 5:16 58 13/11/16 5:21 57
8/11/16 0:01	56	9/11/16 1:06 54	10/11/16 2:11 57	11/11/16 3:16 56	12/11/16 4:21 51	13/11/16 5:26 58
8/11/16 0:06	57 58	9/11/16 1:11 54 9/11/16 1:16 53	10/11/16 2:16 56 10/11/16 2:21 56	11/11/16 3:21 56 11/11/16 3:26 57	12/11/16 4:26 59 12/11/16 4:31 59	13/11/16 5:31 57 13/11/16 5:36 57
8/11/16 0:11 8/11/16 0:16	56 57	9/11/16 1:16 53 9/11/16 1:21 59	10/11/16 2:21 56	11/11/16 3:26 57	12/11/16 4:31 59 12/11/16 4:36 57	13/11/16 5:36 57 13/11/16 5:41 58
8/11/16 0:21	56	9/11/16 1:26 57	10/11/16 2:31 56	11/11/16 3:36 56	12/11/16 4:41 57	13/11/16 5:46 58
8/11/16 0:26	57 57	9/11/16 1:31 54	10/11/16 2:36 56 10/11/16 2:41 56	11/11/16 3:41 56	12/11/16 4:46 56	13/11/16 5:51 57
8/11/16 0:31 8/11/16 0:36	57 55	9/11/16 1:36 56 9/11/16 1:41 56	10/11/16 2:41 56 10/11/16 2:46 56	11/11/16 3:46 56 11/11/16 3:51 56	12/11/16 4:51 56 12/11/16 4:56 57	13/11/16 5:56 58 13/11/16 6:01 57
8/11/16 0:41	55	9/11/16 1:46 56	10/11/16 2:51 56	11/11/16 3:56 56	12/11/16 5:01 57	13/11/16 6:06 58
8/11/16 0:46	56 57	9/11/16 1:51 57	10/11/16 2:56 56	11/11/16 4:01 56	12/11/16 5:06 57 12/11/16 5:11 57	13/11/16 6:11 58 13/11/16 6:16 59
8/11/16 0:51 8/11/16 0:56	57 55	9/11/16 1:56 56 9/11/16 2:01 56	10/11/16 3:01 56 10/11/16 3:06 55	11/11/16 4:06 56 11/11/16 4:11 57	12/11/16 5:11 57 12/11/16 5:16 57	13/11/16 6:16 59 13/11/16 6:21 58
8/11/16 1:01	56	9/11/16 2:06 56	10/11/16 3:11 55	11/11/16 4:16 56	12/11/16 5:21 58	13/11/16 6:26 58
8/11/16 1:06	56 54	9/11/16 2:11 58 9/11/16 2:16 56	10/11/16 3:16 56 10/11/16 3:21 56	11/11/16 4:21 57 11/11/16 4:26 56	12/11/16 5:26 57	13/11/16 6:31 58 13/11/16 6:36 58
8/11/16 1:11 8/11/16 1:16	54 54	9/11/16 2:16 56 9/11/16 2:21 57	10/11/16 3:21 56 10/11/16 3:26 55	11/11/16 4:26 56 11/11/16 4:31 56	12/11/16 5:31 57 12/11/16 5:36 58	13/11/16 6:36 58 13/11/16 6:41 60
8/11/16 1:21	54	9/11/16 2:26 56	10/11/16 3:31 56	11/11/16 4:36 58	12/11/16 5:41 57	13/11/16 6:46 59
8/11/16 1:26	56	9/11/16 2:31 56	10/11/16 3:36 55	11/11/16 4:41 56	12/11/16 5:46 58	13/11/16 6:51 58
8/11/16 1:31 8/11/16 1:36	56 54	9/11/16 2:36 57 9/11/16 2:41 56	10/11/16 3:41 56 10/11/16 3:46 56	11/11/16 4:46 56 11/11/16 4:51 57	12/11/16 5:51 57 12/11/16 5:56 58	13/11/16 6:56 59 13/11/16 23:01 59
8/11/16 1:41	55	9/11/16 2:46 57	10/11/16 3:51 56	11/11/16 4:56 57	12/11/16 6:01 58	13/11/16 23:06 58
8/11/16 1:46 8/11/16 1:51	55 54	9/11/16 2:51 57	10/11/16 3:56 56 10/11/16 4:01 57	11/11/16 5:01 57	12/11/16 6:06 58	13/11/16 23:11 58
8/11/16 1:56	54 55	9/11/16 2:56 56 9/11/16 3:01 56	10/11/16 4:01 57 10/11/16 4:06 57	11/11/16 5:06 57 11/11/16 5:11 56	12/11/16 6:11 58 12/11/16 6:16 59	13/11/16 23:16 59 13/11/16 23:21 59
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8/11/16 2:06 8/11/16 2:11	52 53	9/11/16 3:11 58 9/11/16 3:16 58	10/11/16 4:16 56 10/11/16 4:21 56	11/11/16 5:21 57 11/11/16 5:26 56	12/11/16 6:26 59 12/11/16 6:31 58	13/11/16 23:31 58 13/11/16 23:36 57
8/11/16 2:16	53	9/11/16 3:21 56	10/11/16 4:26 56	11/11/16 5:31 57	12/11/16 6:36 60	13/11/16 23:41 57
8/11/16 2:21	54	9/11/16 3:26 56	10/11/16 4:31 55	11/11/16 5:36 58	12/11/16 6:41 47	13/11/16 23:46 57
8/11/16 2:26 8/11/16 2:31	53 53	9/11/16 3:31 57 9/11/16 3:36 56	10/11/16 4:36 56 10/11/16 4:41 55	11/11/16 5:41 57 11/11/16 5:46 57	12/11/16 6:46 50 12/11/16 6:51 60	13/11/16 23:51 56 13/11/16 23:56 58
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8/11/16 2:41	54	9/11/16 3:46 55	10/11/16 4:51 56	11/11/16 5:56 58	12/11/16 23:01 57	14/11/16 0:06 58
8/11/16 2:46 8/11/16 2:51	54 53	9/11/16 3:51 56 9/11/16 3:56 56	10/11/16 4:56 56 10/11/16 5:01 56	11/11/16 6:01 58 11/11/16 6:06 58	12/11/16 23:06 53 12/11/16 23:11 53	14/11/16 0:11 56 14/11/16 0:16 57
8/11/16 2:56	53	9/11/16 4:01 56	10/11/16 5:06 55	11/11/16 6:11 59	12/11/16 23:16 51	14/11/16 0:21 56
8/11/16 3:01	52	9/11/16 4:06 56	10/11/16 5:11 56	11/11/16 6:16 59	12/11/16 23:21 60	14/11/16 0:26 56
8/11/16 3:06 8/11/16 3:11	55 56	9/11/16 4:11 56 9/11/16 4:16 56	10/11/16 5:16 56 10/11/16 5:21 57	11/11/16 6:21 59 11/11/16 6:26 59	12/11/16 23:26 60 12/11/16 23:31 59	14/11/16 0:31 55 14/11/16 0:36 54
8/11/16 3:16	57	9/11/16 4:21 56	10/11/16 5:26 57	11/11/16 6:31 59	12/11/16 23:36 59	14/11/16 0:41 55
8/11/16 3:21	57	9/11/16 4:26 56	10/11/16 5:31 57	11/11/16 6:36 60	12/11/16 23:41 53	14/11/16 0:46 55
8/11/16 3:26 8/11/16 3:31	56 57	9/11/16 4:31 56 9/11/16 4:36 56	10/11/16 5:36 57 10/11/16 5:41 57	11/11/16 6:41 59 11/11/16 6:46 60	12/11/16 23:46 59 12/11/16 23:51 60	14/11/16 0:51 55 14/11/16 0:56 54
8/11/16 3:36	56	9/11/16 4:41 57	10/11/16 5:46 57	11/11/16 6:51 44	12/11/16 23:56 59	14/11/16 1:01 54
8/11/16 3:41	56	9/11/16 4:46 56	10/11/16 5:51 57	11/11/16 6:56 50	13/11/16 0:01 59	14/11/16 1:06 55
8/11/16 3:46 8/11/16 3:51	56 56	9/11/16 4:51 57 9/11/16 4:56 56	10/11/16 5:56 57 10/11/16 6:01 58	11/11/16 23:01 55 11/11/16 23:06 52	13/11/16 0:06 59 13/11/16 0:11 59	14/11/16 1:11 55 14/11/16 1:16 54
8/11/16 3:56	56	9/11/16 5:01 57	10/11/16 6:06 57	11/11/16 23:11 60	13/11/16 0:16 59	14/11/16 1:21 55
8/11/16 4:01	57 56	9/11/16 5:06 56	10/11/16 6:11 58	11/11/16 23:16 60	13/11/16 0:21 58	14/11/16 1:26 54
8/11/16 4:06 8/11/16 4:11	56 56	9/11/16 5:11 57 9/11/16 5:16 57	10/11/16 6:16 58 10/11/16 6:21 58	11/11/16 23:21 59 11/11/16 23:26 59	13/11/16 0:26 57 13/11/16 0:31 57	14/11/16 1:31 53 14/11/16 1:36 55
8/11/16 4:16	51	9/11/16 5:21 57	10/11/16 6:26 58	11/11/16 23:31 60	13/11/16 0:36 57	14/11/16 1:41 57
8/11/16 4:21 8/11/16 4:26	60 57	9/11/16 5:26 57 9/11/16 5:31 58	10/11/16 6:31 60 10/11/16 6:36 58	11/11/16 23:36 60 11/11/16 23:41 59	13/11/16 0:41 56 13/11/16 0:46 57	14/11/16 1:46 58
8/11/16 4:26 8/11/16 4:31	57 56	9/11/16 5:31 58 9/11/16 5:36 58	10/11/16 6:36 58 10/11/16 6:41 59	11/11/16 23:41 59 11/11/16 23:46 58	13/11/16 0:46 57 13/11/16 0:51 57	14/11/16 1:51 58 14/11/16 1:56 57
8/11/16 4:36	56	9/11/16 5:41 58	10/11/16 6:46 59	11/11/16 23:51 59	13/11/16 0:56 57	14/11/16 2:01 57
8/11/16 4:41 8/11/16 4:46	57 57	9/11/16 5:46 58 9/11/16 5:51 59	10/11/16 6:51 60 10/11/16 6:56 60	11/11/16 23:56 59 12/11/16 0:01 60	13/11/16 1:01 57 13/11/16 1:06 58	14/11/16 2:06 57 14/11/16 2:11 57
8/11/16 4:46 8/11/16 4:51	57 57	9/11/16 5:51 59 9/11/16 5:56 58	10/11/16 6:56 60 10/11/16 23:01 53	12/11/16 0:01 60 12/11/16 0:06 57	13/11/16 1:06 58 13/11/16 1:11 56	14/11/16 2:11 57
8/11/16 4:56	57	9/11/16 6:01 59	10/11/16 23:06 59	12/11/16 0:11 57	13/11/16 1:16 57	14/11/16 2:21 57

Continuous Noise Monitoring 14/11/16 2:26 57	Data ACL3 (City Hall) 15/11/16 3:31 57	16/11/16 4:36 56	17/11/16 5:41 58	19/11/16 6:46 60	19/11/16 23:51 59
14/11/16 2:26 57	15/11/16 3:36 56	16/11/16 4:36 56 16/11/16 4:41 56	17/11/16 5:41 58 17/11/16 5:46 57	18/11/16 6:46 60 18/11/16 6:51 47	19/11/16 23:51 59 19/11/16 23:56 59
14/11/16 2:36 56	15/11/16 3:41 56	16/11/16 4:46 56	17/11/16 5:51 57	18/11/16 6:56 57	20/11/16 0:01 59
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14/11/16 2:56 56	15/11/16 4:01 58	16/11/16 5:06 57	17/11/16 6:11 57	18/11/16 23:16 44	20/11/16 0:21 57
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14/11/16 3:16 56	15/11/16 4:21 57	16/11/16 5:26 57	17/11/16 6:31 59	18/11/16 23:36 60	20/11/16 0:41 56
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14/11/16 3:36 56	15/11/16 4:41 58	16/11/16 5:46 58	17/11/16 6:51 60	18/11/16 23:56 59	20/11/16 1:01 57
14/11/16 3:41 57	15/11/16 4:46 57	16/11/16 5:51 57	17/11/16 6:56 54	19/11/16 0:01 60	20/11/16 1:06 56
14/11/16 3:46 56 14/11/16 3:51 56	15/11/16 4:51 57 15/11/16 4:56 57	16/11/16 5:56 58 16/11/16 6:01 57	17/11/16 23:01 60 17/11/16 23:06 51	19/11/16 0:06 60 19/11/16 0:11 58	20/11/16 1:11 55 20/11/16 1:16 53
14/11/16 3:56 56	15/11/16 5:01 57	16/11/16 6:06 58	17/11/16 23:11 60	19/11/16 0:16 59	20/11/16 1:21 56
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14/11/16 4:16 57	15/11/16 5:21 58	16/11/16 6:26 59	17/11/16 23:31 60	19/11/16 0:36 57	20/11/16 1:41 57
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14/11/16 4:26 57 14/11/16 4:31 57	15/11/16 5:31 58 15/11/16 5:36 58	16/11/16 6:36 59 16/11/16 6:41 59	17/11/16 23:41 58 17/11/16 23:46 59	19/11/16 0:46 56 19/11/16 0:51 57	20/11/16 1:51 59 20/11/16 1:56 58
14/11/16 4:36 57	15/11/16 5:41 57	16/11/16 6:46 60	17/11/16 23:40 39	19/11/16 0:56 56	20/11/16 2:01 57
14/11/16 4:41 57	15/11/16 5:46 57	16/11/16 6:51 49	17/11/16 23:56 58	19/11/16 1:01 57	20/11/16 2:06 58
14/11/16 4:46 57	15/11/16 5:51 58 15/11/16 5:56 58	16/11/16 6:56 55 16/11/16 23:01 59	18/11/16 0:01 57 18/11/16 0:06 58	19/11/16 1:06 56 19/11/16 1:11 56	20/11/16 2:11 57 20/11/16 2:16 58
14/11/16 4:51 57 14/11/16 4:56 57	15/11/16 6:01 58	16/11/16 23:06 59	18/11/16 0:06 58 18/11/16 0:11 58	19/11/16 1:16 56	20/11/16 2:10 59
14/11/16 5:01 57	15/11/16 6:06 58	16/11/16 23:11 58	18/11/16 0:16 56	19/11/16 1:21 56	20/11/16 2:26 57
14/11/16 5:06 57	15/11/16 6:11 58	16/11/16 23:16 59	18/11/16 0:21 57	19/11/16 1:26 58	20/11/16 2:31 57
14/11/16 5:11 57 14/11/16 5:16 57	15/11/16 6:16 59 15/11/16 6:21 59	16/11/16 23:21 58 16/11/16 23:26 58	18/11/16 0:26 56 18/11/16 0:31 56	19/11/16 1:31 56 19/11/16 1:36 58	20/11/16 2:36 57 20/11/16 2:41 57
14/11/16 5:21 58	15/11/16 6:26 59	16/11/16 23:31 58	18/11/16 0:36 55	19/11/16 1:41 58	20/11/16 2:46 58
14/11/16 5:26 58	15/11/16 6:31 59	16/11/16 23:36 57	18/11/16 0:41 54	19/11/16 1:46 58	20/11/16 2:51 58
14/11/16 5:31 58 14/11/16 5:36 58	15/11/16 6:36 59 15/11/16 6:41 60	16/11/16 23:41 57 16/11/16 23:46 56	18/11/16 0:46 56 18/11/16 0:51 55	19/11/16 1:51 59 19/11/16 1:56 58	20/11/16 2:56 58 20/11/16 3:01 57
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After checking with Contractor, no construction works were conducted under Contractor HK/2012/08 at CRIII works area and Contractor HY/2009/18 at P1 Road on 26 November 2016 during the reporting period while music event was held at area opposite to the monitoring station during the concerned period and considered as the major noise contribution. As such, the exceedance was considered as non-project related.

## Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: ACL1 - City Hall

Report on 24-hour TSP monitoring Action Level (  $\mu$  g/m3) - 163 Limit Level (  $\mu$  g/m3) - 260

Date	Sampling	Weather		Filter Weig	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{\text{sf}}$	Average	Volume, m <sup>3</sup>	μg/m³
2-Nov-16	8:00	Fine	17854	2.8045	2.8923	1065.97	1089.97	24.00	0.97	0.97	0.97	1401	62.7
8-Nov-16	8:00	Cloudy	17996	2.8484	2.9550	1093.02	1117.02	24.00	1.03	1.04	1.04	1491	71.5
14-Nov-16	8:00	Fine	17977	2.8486	3.0336	1120.02	1144.02	24.00	1.03	1.03	1.03	1481	124.9
19-Nov-16	8:00	Cloudy	17939	2.8504	2.9644	1147.03	1171.03	24.00	1.03	1.03	1.03	1477	77.2
25-Nov-16	8:00	Cloudy	17817	2.7292	2.8142	1174.03	1198.03	24.00	1.04	1.05	1.04	1503	56.6

Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 460 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weig	ht, g	Elapse Tim	ne, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
3-Nov-16	8:15	Fine	17826	2.8054	2.8089	1090.02	1091.02	1.00	0.97	0.97	0.97	58	59.9
3-Nov-16	9:17	Fine	17823	2.8158	2.8189	1091.02	1092.02	1.00	0.91	0.91	0.91	55	56.9
3-Nov-16	10:19	Fine	17820	2.6969	2.6998	1092.02	1093.02	1.00	0.91	0.91	0.91	55	53.2
9-Nov-16	8:13	Cloudy	17974	2.8410	2.8426	1117.02	1118.02	1.00	1.04	1.04	1.04	62	25.6
9-Nov-16	9:17	Cloudy	17983	2.8578	2.8591	1118.02	1119.02	1.00	0.91	0.91	0.91	55	23.8
9-Nov-16	10:19	Cloudy	17980	2.8467	2.8484	1119.02	1120.02	1.00	0.91	0.91	0.91	55	31.1
15-Nov-16	8:15	Fine	17947	2.8572	2.8658	1144.03	1145.03	1.00	1.03	1.03	1.03	62	139.5
15-Nov-16	9:17	Fine	17945	2.8297	2.8372	1145.03	1146.03	1.00	1.03	1.03	1.03	62	121.6
15-Nov-16	10:19	Fine	17942	2.8573	2.8629	1146.03	1147.03	1.00	1.03	1.03	1.03	62	90.8
21-Nov-16	8:30	Cloudy	17813	2.7391	2.7445	1171.03	1172.03	1.00	0.90	0.90	0.90	54	100.1
21-Nov-16	9:40	Cloudy	17897	2.8021	2.8057	1172.03	1173.03	1.00	0.90	0.90	0.90	54	66.7
21-Nov-16	10:45	Cloudy	17842	2.7926	2.7946	1173.03	1174.03	1.00	1.03	1.03	1.03	62	32.4
26-Nov-16	8:15	Rainy	18306	2.6805	2.6824	1198.04	1199.04	1.00	1.05	1.05	1.05	63	30.2
26-Nov-16	9:17	Rainy	18303	2.6847	2.6858	1199.04	1200.04	1.00	0.92	0.92	0.92	55	20.0
26-Nov-16	10:19	Rainy	18300	2.6514	2.6555	1200.04	1201.04	1.00	0.98	0.98	0.98	59	69.6



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 Weig	ht, g	Elapse Tim	ie, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Final Initial		Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{\text{sf}}$	Average	Volume, m	μg/m³
2-Nov-16	8:00	Fine	17827	2.7960	2.9040	6237.58	6261.58	24.00	1.10	1.10	1.10	1581	68.3
8-Nov-16	8:00	Cloudy	17762	2.7249	2.8435	6264.58	6288.58	24.00	1.15	1.16	1.16	1667	71.1
14-Nov-16	8:00	Fine	17955	2.8406	3.0152	6291.58	6315.58	24.00	1.19	1.19	1.19	1708	102.2
19-Nov-16	8:00	Cloudy	17913	2.8220	2.9390	6318.58	6342.58	24.00	1.18	1.18	1.18	1705	68.6
25-Nov-16	8:00	Cloudy	17796	2.7433	2.8375	6345.75	6369.75	24.00	1.14	1.14	1.14	1642	57.4

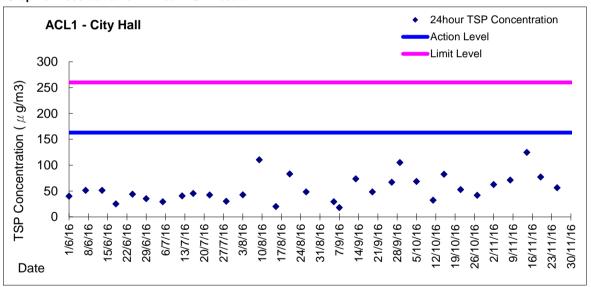
Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 300.1 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weig	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m	μg/m³
3-Nov-16	8:05	Fine	17737	2.7398	2.7467	6261.58	6262.58	1.00	1.10	1.10	1.10	66	104.7
3-Nov-16	9:30	Fine	17777	2.7557	2.7630	6262.58	6263.58	1.00	1.16	1.16	1.16	70	104.9
3-Nov-16	10:50	Fine	17769	2.6888	2.6974	6263.58	6264.58	1.00	1.16	1.16	1.16	70	123.6
9-Nov-16	8:05	Cloudy	18010	2.8434	2.8477	6288.58	6289.58	1.00	1.10	1.10	1.10	66	65.1
9-Nov-16	9:10	Cloudy	17972	2.8517	2.8556	6289.58	6290.58	1.00	1.10	1.10	1.10	66	59.0
9-Nov-16	10:50	Cloudy	17966	2.8490	2.8516	6290.58	6291.58	1.00	1.10	1.10	1.10	66	39.4
15-Nov-16	8:08	Fine	17950	2.8449	2.8553	6315.58	6316.58	1.00	1.13	1.13	1.13	68	153.9
15-Nov-16	9:17	Fine	17926	2.8516	2.8600	6316.58	6317.58	1.00	1.13	1.13	1.13	68	124.3
15-Nov-16	11:00	Fine	17920	2.8028	2.8106	6317.58	6318.58	1.00	1.13	1.13	1.13	68	115.4
21-Nov-16	8:03	Cloudy	17815	2.7172	2.7226	6342.58	6343.58	1.00	1.13	1.13	1.13	68	79.9
21-Nov-16	9:30	Cloudy	17808	2.7106	2.7173	6343.58	6344.58	1.00	1.13	1.13	1.13	68	99.1
21-Nov-16	11:00	Cloudy	17803	2.7409	2.7486	6344.58	6345.58	1.00	1.19	1.19	1.19	71	108.2
26-Nov-16	8:05	Rainy	18097	2.7519	2.7563	6369.75	6370.75	1.00	1.14	1.14	1.14	69	64.1
26-Nov-16	9:40	Rainy	18290	2.6583	2.6613	6370.75	6371.75	1.00	1.14	1.14	1.14	69	43.7
26-Nov-16	10:55	Rainy	18283	2.6428	2.6500	6371.75	6372.75	1.00	1.14	1.14	1.14	69	105.0



**Graphic Presentation of 1 hour TSP Result** 1hour TSP Concentration **ACL1 - City Hall** Action Level Limit Level 500 TSP Concentration (µg/m3) 400 300 200 100 0 1/6/16 → 15/6/16 13/7/16 3/8/16 17/8/16 21/9/16 22/6/16 -6/7/16 27/7/16 10/8/16 24/8/16 -31/8/16 7/9/16 14/9/16 28/9/16 5/10/16 19/10/16 26/10/16 -9/11/16 16/11/16 29/6/16 2/10/16 Date

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



23/11/16



Date

Graphic Presentation of 1 hour TSP Result 1hour TSP Concentration ACL2a - Contractor HK/2012/08 Site Office Action Level Limit Level 500 TSP Concentration (µg/m3) 400 300 200 100 0 29/6/16 -10/8/16 -1/6/16 6/7/16 21/9/16 -28/9/16 -5/10/16 12/10/16 9/10/16 26/10/16 2/11/16 -9/11/16 -16/11/16 15/6/16 22/6/16 20/7/16 27/7/16 3/8/16 17/8/16 24/8/16 31/8/16 7/9/16 14/9/16

**Graphic Presentation of 24 hour TSP Result** ACL2a Contractor HK/2012/08 Site Office 24hour TSP Concentration Action Level Limit Level 300 250 TSP Concentration (  $\mu$  g/m3) 200 150 100 50 0 17/8/16 -1/6/16 6/7/16 31/8/16 -21/9/16 -28/9/16 -5/10/16 12/10/16 -19/10/16 26/10/16 -2/11/16 9/11/16 16/11/16 23/11/16 -8/6/16 15/6/16 22/6/16 29/6/16 13/7/16 20/7/16 27/7/16 3/8/16 10/8/16 24/8/16 7/9/16 14/9/16 Date

## Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations



## Water Monitoring Result at M5B - Central Cooling Water Intake Group Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	perature		pН			Salini	ty	С	OO Satur	ation		DO ma/L			Turbid		Suspended Solids mg/L	
		Condition	r	n			Average	Va	ılue	Average	Va	lue	Average	Va	alue	Average			Average	Va	alue	Average	Value	Average
2/11/16	8:00	Fine	Middle	3.5	25.34	25.34	25.34	8.28	8.28	8.27	30.54	30.54	30.50	68.0	68.1	68.0	4.69	4.70	4.69	9.57	9.59	9.59	8	8.00
	8:02		Middle	3.5	25.33	25.33		8.26	8.26	J	30.46	30.46		68.0	68.0		4.69	4.69		9.60	9.61		8	
4/11/16	8:55	Fine	Middle	3.5	25.25	25.25	25.19	8.25	8.25	8.26	30.32	30.32	30.34	85.5	86.2	86.5	5.96	5.97	6.00	3.57	3.35	3.48	13	14.00
	8:57		Middle	3.5	25.13	25.13		8.26	8.26		30.35	30.35		86.9	87.4		6.03	6.04		3.45	3.56		15	
7/11/16	15:30	Fine	Middle	3.5	26.70	26.70	26.71	8.20	8.20	8.20	30.21	30.21	30.22	81.7	81.7	81.7	5.52	5.52	5.52	5.49	5.47	5.46	7	7.50
	15:32		Middle	3.5	26.72	26.72		8.19	8.19		30.22	30.22		81.7	81.8		5.52	5.53		5.47	5.39		8	<u> </u>
9/11/16	13:56	Cloudy	Middle	3.5	25.28	25.20	27.72	8.25	8.25	8.50	30.16	30.16	30.18	86.6	86.5	86.4	5.99	5.99	5.97	6.32	6.43	6.46	8	7.50
	13:58		Middle	3.5	30.19	30.19		8.74	8.74		30.20	30.20		86.3	86.2		5.98	5.91		6.50	6.58		7	<u> </u>
11/11/16	15:08	Fine	Middle	3.5	24.81	24.81	24.81	8.15	8.15	8.16	30.06	30.06	30.07	79.0	79.1	79.2	5.52	5.52	5.53	7.89	7.89	7.89	11	10.50
	15:10		Middle	3.5	24.80	24.80		8.16	8.16		30.07	30.07		79.2	79.5		5.53	5.56		7.89	7.90		10	<u> </u>
14/11/16	16:50	Fine	Middle	3.5	25.98	25.98	26.00	8.08	8.08	8.09	30.18	30.18	30.17	75.0	75.5	74.8	5.14	5.17	5.12	6.30	6.36	6.34	7	6.50
	16:52		Middle	3.5	26.01	26.01		8.10	8.10		30.16	30.16		74.5	74.1		5.10	5.07		6.35	6.33		6	
16/11/16	7:50	Fine	Middle	4.0	25.32	25.32	25.33	8.19	8.19	8.19	30.26	30.26	30.27	83.9	84.1	84.2	5.81	5.82	5.82	7.89	7.96	7.96	7	7.50
	7:52		Middle	4.0	25.33	25.33		8.18	8.18		30.27	30.27		84.3	84.3		5.83	5.83		7.98	7.99		8	<u> </u>
18/11/16	9:05	Cloudy	Middle	4.0	25.24	25.24	25.25	8.17	8.17	8.18	30.19	30.19	30.20	68.8	68.9	68.9	4.77	4.77	4.78	8.52	8.53	8.55	8	8.00
	9:07		Middle	4.0	25.26	25.26		8.18	8.18		30.20	30.20		68.9	69.0		4.78	4.78		8.55	8.61		8	<u> </u>
21/11/16	13:55	Fine	Middle	4.0	25.37	25.37	25.38	8.09	8.09	8.09	30.34	30.34	30.33	80.7	80.9	81.0	5.58	5.59	5.60	12.67	12.45	12.52	17	<u>17.50</u>
	13:57		Middle	4.0	25.38	25.38		8.09	8.09		30.32	30.32		81.1	81.1		5.60	5.61		12.47	12.48		18	1
23/11/16	14:55	Cloudy	Middle	3.5	24.47	24.47	24.43	8.14	8.14	8.14	28.77	28.77	28.80	73.1	73.3	73.5	5.18	5.19	5.21	5.50	5.49	5.50	2	2.00
	14:57		Middle	3.5	24.38	24.38		8.14	8.14		28.83	28.83		73.7	73.9		5.22	5.24		5.49	5.52		2	<u> </u>
25/11/16	15:00	fine	Middle	3.5	24.14	24.14	24.16	8.22	8.22	8.22	30.07	30.07	30.07	74.7	74.9	75.0	5.28	5.30	5.30	4.44	4.44	4.43	8	7.50
	15:02		Middle	3.5	24.18	24.18		8.22	8.22		30.06	30.06		75.1	75.3		5.31	5.32		4.44	4.40		7	
28/11/16	15:00 15:02	Fine	Middle Middle	3.5	22.90	22.90	22.90	8.23	8.23	8.23	31.07	31.07	31.07	95.6	95.4	95.3	6.87	6.86	6.85	6.46	6.43	6.41	12	12.00
	17:20		Middle	3.5 4.0	22.90	22.60			8.23		31.07	31.07		95.2 94.2	94.9		6.84	6.78		6.38 3.32	3.32		15	
30/11/16	17:20	Fine	Middle		22.50	22.50	22.55	8.22	8.22	8.22	31.13	31.13	31.13	94.2	93.8	92.6	6.81	6.59	6.69	3.32	3.32	3.32	14	14.50
	17:22		iviidale	4.0	22.50	22.50		0.22	0.22		31.13	31.13		91.1	91.2		ზ.ეგ	დ.၁9		3.32	3.37		14	



#### Water Monitoring Result at Culvert J - Reference Station Mid-Flood Tide

Date	Time	Weater Condition	•	g Depth	Wat	er Temp	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspended Solids mg/L	
		o o i i a i i o i i	r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	,	Average	Va	lue	Average	Va	lue	Average	Value	Average
2/11/16	8:05	Fine	Middle	3.5	25.63	25.63	25.55	8.24	8.24	8.24	29.61	29.61	29.63	63.4	63.5	63.3	4.40	4.46	4.41	10.02	10.08	10.07	9	8.00
2/11/10	8:07	7 1110	Middle	3.5	25.47	25.47	20.00	8.23	8.23		29.64	29.64	20.00	63.3	63.0	00.0	4.39	4.37	7.71	10.09	10.10	10.07	7	0.00
4/11/16	8:50	Fine	Middle	3.5	25.15	25.15	24.97	8.27	8.27	8.27	28.96	28.96	28.61	74.3	74.2	74.2	5.21	5.20	5.20	2.63	2.61	2.61	14	13.50
17 1 17 10	8:52		Middle	3.5	24.79	24.79	2	8.26	8.26	0.21	28.26	28.26	20.01	74.0	74.1	2	5.20	5.20	0.20	2.61	2.60	2.01	13	10.00
7/11/16	15:25	Fine	Middle	3.0	26.90	26.90	26.95	8.22	8.22	8.22	30.07	30.07	30.04	76.7	77.7	77.6	5.17	5.24	5.23	5.86	5.90	5.89	7	6.50
.,,,,,,	15:27		Middle	3.0	27.00	27.00	20.00	8.21	8.21	0.22	30.01	30.01	00.0	77.9	78.0	77.0	5.25	5.25	0.20	5.90	5.91	0.00	6	0.00
9/11/16	13:52	Cloudy	Middle	3.5	24.98	24.98	24.93	8.28	8.28	8.27	27.92	27.92	28.37	73.1	73.7	73.8	5.16	5.19	5.20	6.93	6.92	6.92	7	7.00
671.710	13:54	oloudy	Middle	3.5	24.87	24.87	21.00	8.26	8.26	0.21	28.82	28.82	20.01	74.1	74.4	7 0.0	5.20	5.23	0.20	6.92	6.92	0.02	7	7.00
11/11/16	15:04	Fine	Middle	3.5	24.59	24.59	24.55	8.12	8.12	8.13	29.89	29.89	29.91	75.4	75.4	75.5	5.30	5.30	5.30	6.10	6.10	6.11	8	7.50
.,,.,,.	15:06		Middle	3.5	24.50	24.50		8.14	8.14		29.92	29.92		75.5	75.6		5.30	5.31		6.11	6.12		7	
14/11/16	16:46	Fine	Middle	3.5	26.09	26.09	26.17	8.08	8.08	8.09	28.44	28.44	28.42	76.4	76.1	76.0	5.27	5.25	5.24	3.99	4.03	4.01	7	7.00
. , . ,	16:48		Middle	3.5	26.25	26.25		8.09	8.09		28.40	28.40	20.42	75.8	75.5		5.23	5.21		4.01	4.02		7	
16/11/16	7:45	Fine	Middle	3.5	25.28	25.28	25.78	8.22	8.22	8.22	28.70	28.70	28.70	75.8	75.6	75.5	5.29	5.29	5.28	7.82	7.71	7.71	7	6.50
	7:47		Middle	3.5	26.27	26.27		8.21	8.21		28.70	28.70		75.4	75.2		5.27	5.25		7.60	7.69		6	
18/11/16	9:00	Cloudy	Middle	3.5	25.17	25.17	25.15	8.21	8.21	8.21	28.67	28.67	28.69	64.4	63.8	63.9	4.51	4.47	4.47	2.77	2.75	2.73	8	9.00
	9:02		Middle	3.5	25.12	25.12		8.20	8.20		28.70	28.70		63.7	63.5		4.46	4.45		2.73	2.66		10	
21/11/16	13:50	Fine	Middle	3.5	25.36	25.36	25.36	8.08	8.08	8.09	30.39	30.39	30.39	72.5	72.7	72.9	5.01	5.02	5.03	8.63	8.61	8.62	8	8.00
	13:52		Middle	3.5	25.35	25.35		8.09	8.09		30.38	30.38		73.0	73.2		5.04	5.06		8.62	8.60		8	
23/11/16	14:50	Cloudy	Middle	3.5	23.91	23.91	23.91	8.18	8.18	8.18	26.29	26.29	26.30	72.9	72.8	72.7	5.29	5.27	5.27	8.65	8.67	8.67	6	6.00
	14:52		Middle	3.5	23.90	23.90		8.18	8.18		26.30	26.30		72.5	72.6		5.26	5.27		8.67	8.67		6	
25/11/16	14:56	fine	Middle	3.5	24.13	24.13	24.15	8.23	8.23	8.23	30.19	30.19	30.17	73.6	73.6	73.6	5.20	5.20	5.20	5.92	6.00	6.00	6	5.50
	14:58		Middle	3.5	24.17	24.17		8.22	8.22		30.15	30.15		73.5	73.5		5.19	5.19		6.01	6.07		5	
28/11/16	14:56	Fine	Middle	3.5	22.80	22.80	22.80	8.20	8.20	8.21	30.62	30.62	30.62	100.4	100.3	100.2	7.25	7.24	7.23	5.94	5.88	5.87	4	5.00
	14:58		Middle	3.5	22.80	22.80		8.21	8.21		30.62	30.62		100.1	99.9		7.23	7.21		5.79	5.86		6	
30/11/16	17:15	Fine	Middle	3.5	22.60	22.60	22.60	8.20	8.20	8.20	30.96	30.96	30.96	87.2	87.3	87.0	6.30	6.31	6.29	3.50	3.38	3.47	14	14.50
	17:17		Middle	3.5	22.60	22.60		8.20	8.20		30.96	30.96		87.0	86.5		6.29	6.25		3.51	3.48		15	



## Water Monitoring Result at M5B - Central Colling Water Intake Group Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		рН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid		Suspended Solids mg/L	
		Condition	n	n	Va	lue	Average	Va	ılue	Average	Va	ılue	Average	Va	ılue	Average	Va		Average	Va	alue	Average	Value	Average
2/11/16	13:45	Fine	Middle	3.5	26.05	26.05	26.05	8.23	8.23	8.24	30.30	30.30	30.31	87.4	87.7	87.8	5.97	5.99	6.00	7.02	7.00	7.00	4	4.50
2/11/10	13:47	Tille	Middle	3.5	26.05	26.05	20.03	8.24	8.24	0.24	30.31	30.31	30.31	87.9	88.2	67.0	6.00	6.03	0.00	7.00	6.98	7.00	5	4.30
4/11/16	5:00	Fine	Middle	3.5	23.60	23.60	23.50	8.09	8.09	8.09	28.66	28.66	28.66	77.9	79.9	78.8	5.63	5.77	5.70	5.40	5.36	5.37	4	4.00
4/11/10	5:01	Tillo	Middle	3.5	23.40	23.40	20.00	8.09	8.09	0.00	28.66	28.66	20.00	78.5	79.0	70.0	5.67	5.71	0.70	5.38	5.34	0.01	<2	4.00
7/11/16	5:15	Cloudy	Middle	3.5	25.20	25.20	25.20	8.02	8.02	8.03	31.11	31.11	31.12	74.4	74.2	74.1	5.13	5.12	5.11	4.29	4.30	4.30	4	4.00
.,,.	5:16	Ciouuy	Middle	3.5	25.20	25.20	20.20	8.03	8.03	0.00	31.12	31.12	02	74.6	73.0		5.15	5.04	0	4.31	4.30		4	
9/11/16	5:00	Cloudy	Middle	3.5	23.00	23.00	23.00	7.98	7.98	7.98	30.38	30.38	30.38	74.0	75.5	75.1	5.33	5.44	5.41	4.53	4.53	4.55	4	5.00
9,11,10	5:01	Ciouuj	Middle	3.5	23.00	23.00	20.00	7.98	7.98	7.00	30.38	30.38	00.00	76.0	74.9		5.46	5.39	0	4.55	4.57		6	0.00
11/11/16	9:20	Fine	Middle	3.5	23.99	23.99	23.99	8.21	8.21	8.22	29.93	29.93	30.07	91.2	91.8	92.1	6.48	6.50	6.53	7.43	7.41	7.42	8	7.00
	9:22		Middle	3.5	23.98	23.98		8.23	8.23		30.20	30.20		92.5	92.8	<del></del>	6.55	6.58		7.42	7.40		6	
14/11/16	10:44	Fine	Middle	3.5	25.70	25.70	25.71	8.24	8.24	8.24	30.70	30.70	30.45	92.5	93.1	93.5	6.36	6.41	6.45	4.72	4.69	4.73	4	4.50
	10:46	-	Middle	3.5	25.72	25.72	-	8.23	8.23	0.24	30.20	30.20		94.1	94.1		6.47	6.57		4.75	4.75		5	
16/11/16	13:45	Fine	Middle	3.5	25.64	25.64	25.64	8.17	8.17	8.17	30.47	30.47	30.47	96.8	96.8	96.8	6.66	6.66	6.66	4.11	4.11	4.12	3	3.00
	13:47		Middle	3.5	25.64	25.64		8.17	8.17		30.47	30.47		96.9	96.8		6.66	6.66		4.12	4.12		3	
18/11/16	5:06	Cloudy	Middle	3.0	24.90	24.90	24.85	7.84	7.84	7.85	30.99	30.99	30.99	75.0	75.1	75.2	5.21	5.22	5.22	4.63	4.60	4.64	5	4.50
	5:07		Middle	3.0	24.80	24.80		7.85	7.85		30.99	30.99		75.2	75.3		5.23	5.23		4.65	4.67		4	
21/11/16	5:00	Cloudy	Middle	3.5	24.80	24.80	24.80	8.02	8.02	8.02	31.17	31.17	31.18	81.3	82.0	81.5	5.65	5.70	5.66	4.45	4.39	4.39	5	4.00
	5:01	-	Middle	3.5	24.80	24.80		8.02	8.02		31.18	31.18		81.6	81.0		5.66	5.63		4.36	4.34		3	
23/11/16	8:15	Cloudy	Middle	3.5	24.33	24.33	24.30	8.16	8.16	8.17	29.57	29.57	29.58	79.5	79.5	79.6	5.62	5.62	5.63	4.76	4.76	4.76	3	2.50
	8:17	-	Middle	3.5	24.27	24.27		8.17	8.17		29.59	29.59		79.6	79.6		5.63	5.63		4.76	4.77		2	
25/11/16	8:55	Fine	Middle	3.5	23.46	23.46	23.39	8.21	8.21	8.22	29.94	29.94	29.97	74.4	74.8	73.9	5.33	5.36	5.38	6.27	6.19	6.21	9	8.00
	8:57		Middle	3.5	23.31	23.31		8.23	8.23		29.99	29.99		73.1	73.4		5.38	5.46		6.18	6.19		7	
28/11/16	10:40	Fine	Middle	4.0	22.80	22.80	22.80	8.22	8.22	8.22	31.02	31.02	31.03	100.3	100.3	100.3	7.21	7.21	7.21	6.44	6.44	6.45	2	3.00
	10:42		Middle	4.0	22.80	22.80		8.22	8.22		31.03	31.03		100.2	100.4		7.21	7.22		6.45	6.48		4	
1/12/16	2:30	Cloudy	Middle	3.0	20.70	20.70	20.70	8.13	8.13	8.13	30.20	30.20	30.21	82.5	82.4	82.0	6.20	6.17	6.15	5.03	5.06	5.02	5	5.50
	2:31		Middle	3.0	20.70	20.70		8.13	8.13		30.21	30.21		81.3	81.6		6.11	6.13		5.00	4.98		6	

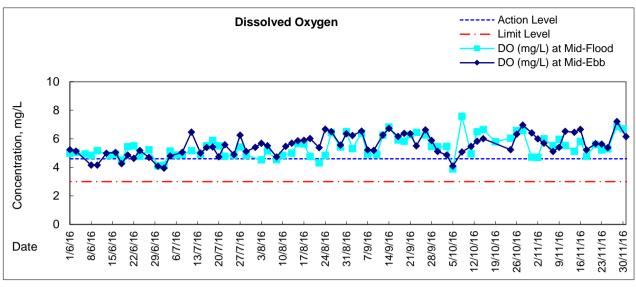
Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

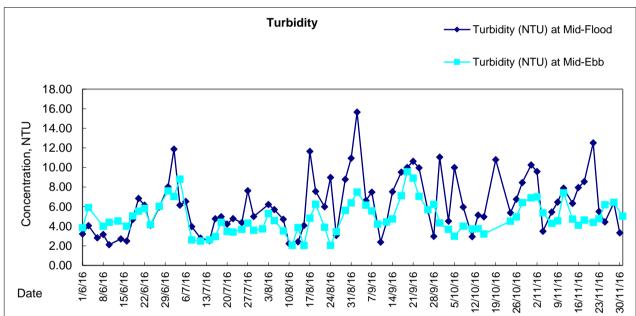


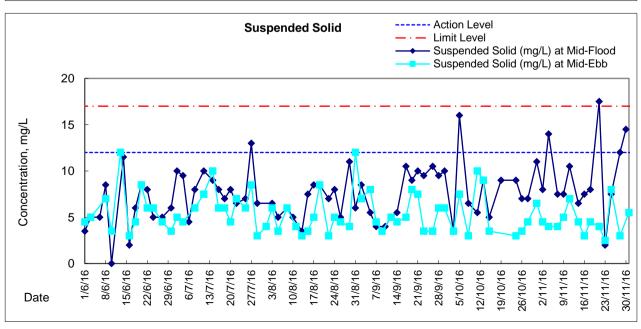
# Water Monitoring Result at Culvert J - Reference Station Mid-Ebb Tide

Date	Time	Weater Condition		ng Depth	Wat	ter Temp	erature		pН			Salini	ty	С	OO Satur	ation		DO mg/L			Turbid			ded Solids a/L	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average	
2/11/16	13:40	Fine	Middle	4	26.01	26.01	26.02	8.23	8.23	8.23	29.72	29.72	29.72	71.3	71.6	71.9	4.89	4.91	4.93	8.34	8.38	8.38	4	4.00	
2/11/10	13:42	Tille	Middle	4	26.02	26.02	20.02	8.23	8.23	0.23	29.71	29.71	29.12	71.9	72.7	71.9	4.93	4.99	4.53	8.39	8.39	0.50	4	4.00	
4/11/16	5:15	Fine	Middle	3	24.20	24.20	24.15	8.13	8.13	8.10	24.24	24.24	24.24	63.8	64.7	63.7	4.66	4.76	4.67	11.78	11.73	11.70	6	8.50	
4/11/10	5:16	Tillo	Middle	3	24.10	24.10	24.10	8.07	8.07	0.10	24.24	24.24	24.24	63.5	62.9	00.1	4.65	4.60	4.07	11.64	11.66	11.70	11	0.00	
7/11/16	5:30	Cloudy	Middle	3	25.30	25.30	25.30	8.09	8.09	8.09	27.41	27.41	27.41	64.4	64.8	64.3	4.54	4.57	4.54	6.83	6.95	6.95	8	6.50	
	5:31	,	Middle	3	25.30	25.30		8.09	8.09		27.41	27.41		64.1	64.0		4.52	4.52		6.99	7.02		5		
9/11/16	5:08	Cloudy	Middle	3	23.40	23.40	23.40	8.02	8.02	8.01	28.08	28.08	28.08	62.0	62.1	62.0	4.49	4.50	4.49	6.10	6.14	6.16	6	5.50	
	5:09		Middle	3	23.40	23.40		8.00	8.00		28.08	28.08		62.3	61.5		4.52	4.46		6.23	6.17		5		
11/11/16	9:15	Fine	Middle	4	23.48	23.48	23.32	8.25	8.25	8.25	27.93	27.93	28.04	78.7	78.7	78.7	5.71	5.72	5.72	5.72	8.67	8.44	8.41	8	7.00
	9:17		Middle	4	23.16	23.16		8.24	8.24		28.15	28.15		78.7	78.8		5.72	5.73		8.27	8.25		6		
14/11/16	10:40	Fine	Middle	4	25.70	25.70	25.71	8.25	8.25	8.25	30.09	30.09	30.09	65.8	67.5	69.2	4.52	4.65	4.72	5.65	5.65	5.61	5	4.50	
	10:42		Middle	4	25.71	25.71		8.24	8.24		30.08	30.08		70.6	73.0		4.86	4.86		5.60	5.53		4		
16/11/16	13:40	Fine	Middle	4	25.51	25.51	25.51	8.18	8.18	8.18	27.21	27.21	27.18	73.1	73.0	73.1	5.13	5.12	5.13	6.42	6.48	6.44	5	5.00	
	13:42		Middle	4	25.51	25.51		8.18	8.18		27.15	27.15		73.1	73.3		5.13	5.14		6.44	6.40		5	<del>                                     </del>	
18/11/16	5:15	Cloudy	Middle	3	24.90	24.90	24.90	8.03	8.03	8.02	20.77	20.77	20.76	61.8	62.6	61.8	4.55	4.61	4.56	27.95	28.05	28.05	29	31.50	
	5:16		Middle	3	24.90	24.90		8.00	8.00		20.75	20.75		61.6	61.3		4.54	4.52		28.19	28.02		34	<u> </u>	
21/11/16	5:10	Cloudy	Middle	3	24.90	24.90	24.90	8.06	8.06	8.05	27.73	27.73	27.73	71.5	72.0	71.8	5.06	5.10	5.08	5.64	5.62	5.63	4	5.00	
	5:11		Middle Middle	3	24.90	24.90		8.04	8.04		27.73	27.73		72.0	71.8		5.10	5.07		5.61	5.66		6		
23/11/16	8:10	Cloudy	Middle	4	23.94	23.94	23.92	8.23	8.23 8.21	8.22	25.96 25.98	25.96 25.98	25.97	72.4 75.4	73.4	74.5	5.26 5.48	5.33 5.58	5.41	7.19	7.07	7.09	5	5.00	
	8:50		Middle	4	22.83	22.83		8.28	8.28		26.84	26.84		73.6	73.0		5.43	5.40		8.68	8.72		5		
25/11/16	8:52	Fine	Middle	4	22.34	22.35	22.59	8.26	8.26	8.27	27.16	27.16	27.00	72.8	72.7	73.0	5.39	5.39	5.40	8.71	8.68	8.70	5	5.00	
	10:35		Middle	4	22.80	22.80		8.18	8.18		30.17	30.17		86.0	85.4		6.23	6.18		7.85	7.85		5	+	
28/11/16	10:37	Fine	Middle	4	22.70	22.70	22.75	8.19	8.19	8.19	30.18	30.18	30.18	85.6	84.5	85.4	6.20	6.12	6.18	7.89	7.89	7.87	4	4.50	
	2:38		Middle	3	21.00	21.00		8.24	8.24		22.04	22.04		61.8	62.2			4.88		12.60	12.87		18		
1/12/16	2:39	Cloudy	Middle	3	20.90	21.00	20.98	8.20	8.20	8.22	22.03	22.03	22.04	61.6	61.3	61.7	4.83	4.81	4.84	13.07	12.96	12.88	15	16.50	

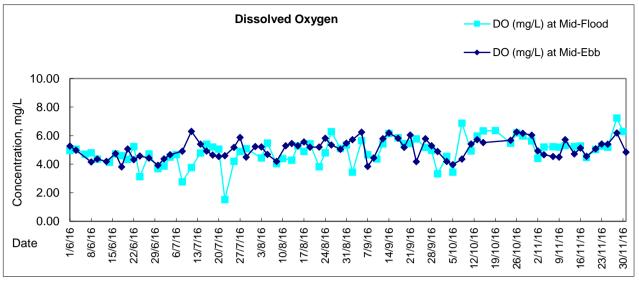
#### Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups

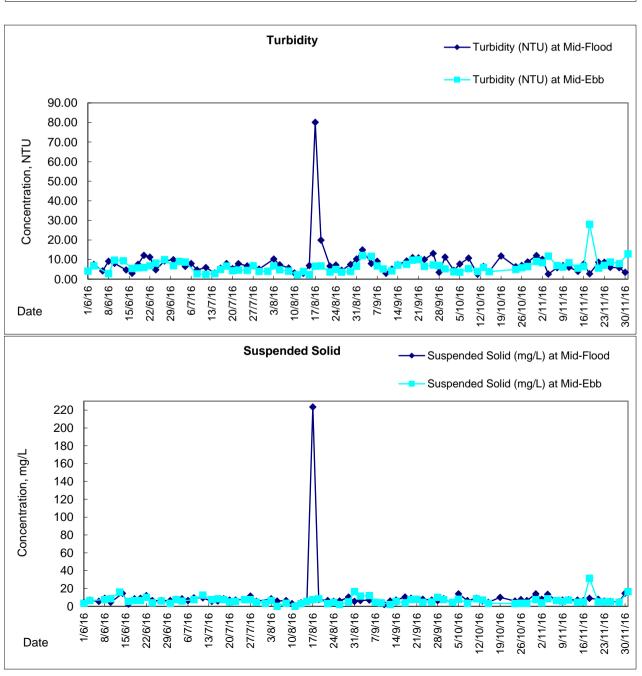












### Appendix 6.1

**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	Notify Contractor	Rectify any unacceptable practice     Amend working methods if appropriate							
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 monitoring	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	Confirm receipt of notification of failure in writing     Notify Contractor     Ensure remedial measures properly implemented	Submit proposals for remedial actions to IC(E) within 3 working days of notification     Implement the agreed proposals     Amend proposal if appropriate							
Limit Level - Exceedance for one sample	Identify source     Inform ER and EPD     Repeat measurement to confirm findings     Increase monitoring frequency to daily     Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD 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	Confirm receipt of notification of failure in writing     Notify Contractor     Ensure remedial measures properly implemented	Take immediate action to avoid further exceedance     Submit proposal for remedial actions to 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	Discuss amongst ER, ET, and Contractor on the potential remedial actions     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented     Ensure remedial measures properly implemented     If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	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     Resubmit proposals if problem still not under control     Stop the relevant portion of works as determined by the ER until the exceedance is abated							

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	Notify IC(E) and Contractor     Carry out investigation     Report the results of the investigation to the IC(E) and Contractor     Discuss with the Contractor and formulate remedial measures	Discuss amongst ER, ET and Contractor on the potential remedial actions     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     Require Contractor to propose remedial measures for the analyzed noise problem     Ensure remedial measures are properly implemented	Submit noise mitigation proposal to IC(E     Implement noise mitigation proposals							
Limit Level is reached	Notify IC(E), ER, EPD and Contractor     Identify source     Repeat measurement to confirm findings     Carry out analysis of Contractor's     working procedures to determine     possible mitigation to be implemented     Inform IC(E), ER and EPD the causes &     actions taken for the exceedances     Assess effectiveness of Contractor's     remedial actions and keep IC(E), EPD     and ER informed of the results     If exceedance stops cease additional     monitoring	Discuss amongst ER, ET and Contractor on the potential remedial actions     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     Require Contractor to propose remedial measures for the analyzed noise problem     Ensure remedial measures are properly implemented     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	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     Resubmit proposals if problem still not under control     Stop the relevant portion of works as determined by the ER until the exceedance is abated							

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

EVENT		ACTIO	ON	
	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	: Environmental Monitoring and I		ion	
	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)

### Appendix 6.2

Summary for Notification of Exceedance



Ref no.	Date	Tide	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up actio	n
X_16CR021	4 Nov 2016	Mid- flood	M5B	DO(mg/L)	6.00	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station possibly in relate to nearby culvert discharge.
				SS(mg/L)	14.00	12.00	17.00	Action taken/ to be taken:	Checking with the contractor works and review previous monitoring data.
								Remarks/ Other Obs:	No marine construction activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine construction activity and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 7 November 2016 ebb tide.
X_16CR022	21 Nov 2016	Mid- flood	M5B	DO(mg/L)	5.60	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station possibly in relate to nearby culvert discharge.
				SS(mg/L)	17.50	12.00	17.00	Action taken/ to be taken:	Checking with the contractor works and review previous monitoring data.
								Remarks/ Other Obs:	No marine construction activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine construction activity and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 23 November 2016 ebb tide.
X_16CR023	30 Nov 2016	Mid- flood	M5B	DO(mg/L)	6.69	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station possibly in relate to nearby culvert discharge.
				SS(mg/L)	14.50	12.00	17.00	Action taken/ to be taken:	Checking with the contractor works and review previous monitoring data.
								Remarks/ Other Obs:	Despite trimming of rock mound profile was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures such as the use of silt curtain was generally in place. No particular observation regarding water quality impact was observed during sampling. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring on 1 December 2016 ebb tide.

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	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	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.		

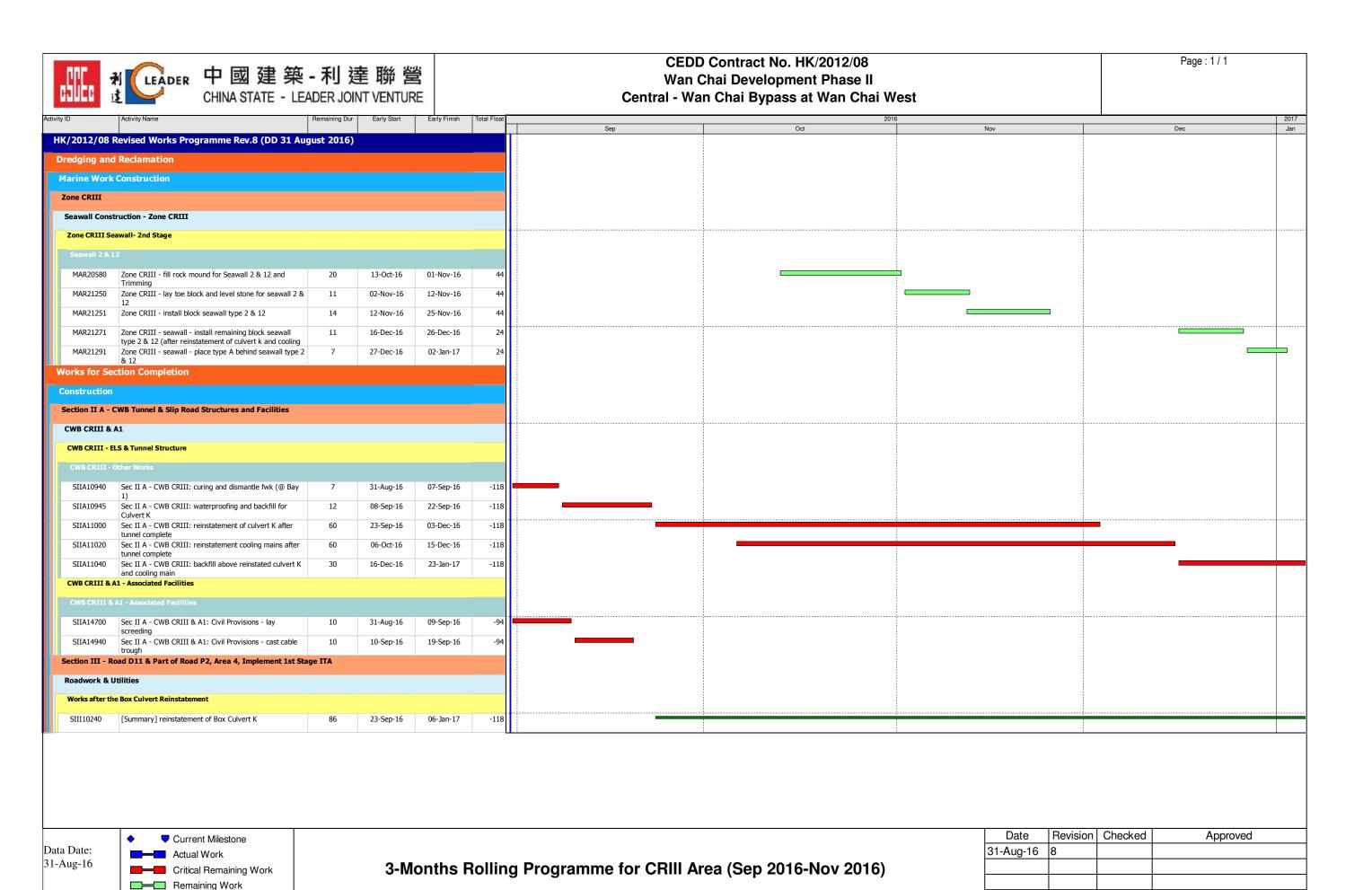
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150703	3/7/2015	EPD complaint (EPD Ref.: H05/RS/000162 15-15) received by ET on 03 July 2015	West of HKCEC outside Lung King Street	Dark smoke was observed from a derrick barge 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.	Closed
					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.	

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.

### Appendix 10.1

Construction Programme of Individual Contracts



(Ref. to Revised Works Programme (Rev. 8))

Remaining Level of Effort

## HY/2009/18 Central - Wan Chai Bypass - Central Interchange

		2016		2017			
	October	November	December	January			
Road P1							
Nil							
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LEGEND:		!					
	The	Three Month Rolling Programme					
Actual Works	ımı						
Remaining Works		Update on 26.11.2016					