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

- JULY 2016 -

CLIENTS:

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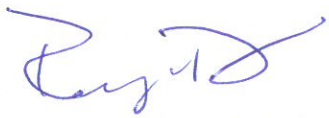

Raymond Dai
Environmental Team Leader

DATE:

8 August 2016

RAMBOLL ENVIRON

Ref.: AACWBIECEM00_0_8385L.16

9 August 2016

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Monthly Environmental Monitoring and Audit Report (July 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 July 2016 received by e-mail on 8 August 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 queries.

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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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – July 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 July 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

- Structural works for tunnel construction
- Roadworks
- Drainage works
- Seawall modification

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. No action or limit level exceedance was recorded at ACL3 – City Hall in the reporting period.

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

Air Quality Monitoring

vii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at ACL1 – City Hall and ACL2a – Contractor HK/2012/08 Site Office.

viii. Due to interruption of electricity, the 24hr TSP monitoring at ACL1 – City Hall was rescheduled from 11 July 2016 to 12 July 2016.

ix. No action or limit level exceedances was recorded at ACL 1 – City Hall and ACL2a – Contractor HK/2012/08 Site Office in the reporting month.

x. 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.

xi. 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.

xii. The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.

xiii. 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.

xiv. The air quality monitoring at ACL2a – Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

Water Quality Monitoring

xv. 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.

xvi. Water quality monitoring at M5B and Culvert J were conducted three days per week during reporting period starting from 26 September 2014. The action and limit level exceedance of water quality monitoring are summarized in ***Table 1***.

xvii. Due to the hoisting of Amber Rainstorm Signal, the water quality monitoring events on 6 July 2016 during ebb tide was cancelled.

xviii. Two action level exceedances of dissolved oxygen were recorded on 2 July 2016 during flood tide and ebb tide in the reporting month. One action level exceedance of suspended solids was recorded on 27 July 2016 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-project related. The details of recorded exceedance can be referred to the **Section 5.3**.

Table 1 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract No.	Water quality monitoring station	Mid-flood				Mid-ebb			
		DO		SS		DO		SS	
		AL	LL	AL	LL	AL	LL	AL	LL
HK/2012/08	M5B[2]	1	0	1	0	1	0	0	0
	Culvert J[1]	-	-	-	-	-	-	-	-
Total		**1**	**0**	**1**	**0**	**1**	**0**	**0**	**0**

Remarks[1]: Action or limit level are not applicable to reference station Culvert J.

Remarks[2]: Turbidity measurement are reported as reference.

Complaints, Notifications of Summons and Successful Prosecutions

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

Site Inspections and Audit

xx. 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

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

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

- Structural works for tunnel construction
- Roadworks
- Drainage works
- Seawall modification

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

- NIL

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 July 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 2 ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

Section 3 ***Status of Regulatory Compliance*** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.

Section 4 ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

Section 5 ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.

Section 6 ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.

Section 7 ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

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

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

Section 10 ***Conclusion***

2 PROJECT BACKGROUND

2.1 Background

2.1.1 Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (Register No. AEIAR-040/2001) has been approved on 31 August 2001.

2.2 Scope of the Project and Site Description

2.2.1. The design and construction of Central Reclamation Phase III involves the permanent reclamation and construction and operation of a trunk road and its road tunnel that is shown at ***Figure 2.1***.

2.2.2. The key purpose of the study area encompasses the area of Victoria Harbour to the southeast of the new Outlying Islands Ferry Piers and north of Edinburgh Place and Lung Wui Road. The area extends eastward to Fenwick Pier Street and the Fleet Arcade, and includes the existing GPO, Star Ferry Piers, Queens Pier, City Hall, PLA Headquarters, Hong Kong Red Cross Headquarters building and the Tamar Site. The scope of the Central Reclamation, Phase III includes:

- Reclamation and seawalls, roads and associated services, North Island Line Protection Works and Advance Trunk Road Tunnel (ATRT) for the CWB;
- Reprovisioning of Star Ferry Pier, public landing steps, wallah wallah moorings, and motor boat/launch operators' kiosks;
- External cooling water systems which consist of the cooling water pumping shells for future developments, and the reprovisioning of existing cooling water pumping stations and associated pipework systems and E&M works;
- Reprovisioning of existing Leisure and Cultural Services Department (LCSD)'s facilities;
- Provision of a flood relief path, stormwater culvert extensions, upgrading of hinterland stormwater drainage resulting from the reclamation, demolition of the existing waterfront structures and necessary landscaping;
- The Hong Kong Station Extended Overrun Tunnel (EOT) and associated ventilation structures entrusted for construction within the CRIII works;
- Reprovisioning of the Government Heliport at the Wan Chai PCWA and reprovisioning of the Wan Chai PCWA at Chai Wan Basin.

2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed

or operated. ***Table 2.1*** summarises the four individual DPs under this Project. ***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

Party	Role	Post	Name	Contact No.	Contact Fax
	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 (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
		Environmental Office	Mr. Chris Chan	3973 0885	
		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

- Structural works for tunnel construction
- Roadworks
- Drainage works
- Seawall modification

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:

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

- Structural works for tunnel construction
- Roadworks
- Drainage works
- Seawall modification

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-RS0192-16	4 Mar 2016	9 Mar 2016 to 8 Sep 2016	Superseded by GW-RS0746-16
Construction Noise Permit	GW-RS0736-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
Construction Noise Permit	GW-RS0630-16	7 Jun 2016	20 Jun 2016 to 19 Dec 2016	Superseded by GW-RS0736-16

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Valid
Dumping Permit (Type 1- Open Sea Disposal)	EP/MD/16-173	11 Feb 2016	21 Aug 2016	Valid
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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Approval of Coral Translocation Report	N/A	N/A	N/A	N/A
Billing Account under Waste Disposal Ordinance (Land)	Account No.: 7011587	11 Oct 2010	Account approved	Valid

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.

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^3 per minute adjustable flow range;
- Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm2;

- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.

4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.

4.2.11. Current calibration certificates of equipment are presented in ***Appendix 4.2***.

4.3 Water Quality Monitoring

WATER QUALITY MONITORING STATIONS

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

Table 4.3 Water Quality Monitoring Stations

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

WATER QUALITY PARAMETERS

4.3.2. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ 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[1]	Parameters[2]
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.

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

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 No action or limit level exceedance was recorded at ACL3 – City Hall in the reporting period.

5.1.4 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.

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

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

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

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

5.3.2 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 6 July 2016 during ebb tide was cancelled.

5.3.3 Two action level exceedances of dissolved oxygen were recorded on 2 July 2016 during flood tide and ebb tide in the reporting month. One action level exceedance of suspended solids was recorded on 27 July 2016 during flood tide in the reporting month.

5.3.4 Despite removal of seawall blocks was conducted under Contract HK/2012/08 on 2 July 2016 during ebb tide, contractor mitigation measures including deployment of localized silt curtain were in place. Low SS level was recorded during monitoring period. Location of construction area was at the downstream of monitoring station M5B. In view of the above, it was considered that the exceedance was not related to Project.

5.3.5 Despite removal of seawall blocks was conducted under Contract HK/2012/08 on 2 July 2016 during flood tide, contractor mitigation measures including deployment of localized silt curtain were in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project.

5.3.6 Despite trimming of rockbed profile was conducted under Contract HK/2012/08 on 27 July 2016, contractor mitigation measures including deployment of localized silt curtain were in place. Location of construction area was at the downstream of monitoring station M5B. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project.

5.3.7 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***

Table 5.5 Summary of Water Quality Monitoring Exceedance in Reporting Month

Contract No.	Water quality monitoring station	Mid-flood				Mid-ebb			
		DO		SS		DO		SS	
		AL	LL	AL	LL	AL	LL	AL	LL
HK/2012/08	M5B[2]	1	0	1	0	1	0	0	0
	Culvert J[1]	-	-	-	-	-	-	-	-
Total		**1**	**0**	**1**	**0**	**1**	**0**	**0**	**0**

Remarks[1]: Action or limit level are not applicable to reference station Culvert J.

Remarks[2]: Turbidity measurement are reported as reference.

5.4 Waste Monitoring Results

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

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	28 70	7564 49658	TM38 TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	40	1490	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), m³	0 (Bulk volume)	0 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 2) , m³	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

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

6.1.1 No action or limit level exceedance was recorded at ACL3 – City Hall in the reporting month.

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

6.1.2 No action or limit level exceedance was recorded at ACL3 – City Hall in the reporting month.

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

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

6.3.1 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 6 July 2016 during ebb tide was cancelled.

6.3.2 Two action level exceedances of dissolved oxygen were recorded on 2 July 2016 during flood tide and ebb tide in the reporting month. One action level exceedance of suspended solids was recorded on 27 July 2016 during flood tide in the reporting period. 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, structural works for tunnel construction, roadworks, drainage works and seawall modification were performed in July 2016 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.

7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works at Wan Chai East and culvert construction, 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, four weekly site inspections were carried out on 5, 12, 19 and 27 July 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 7, 14, 21 and 28 July 2016 for Contract no. HY/2009/18. No observation was found during the reporting month.

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.1.1 No environmental complaint was received in this reporting month.

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

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

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
July 2013 – June 2016	3
July 2016	0
Total	3

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10 CONCLUSION

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

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2012/08	• Structural works for tunnel construction • Roadworks • Drainage works • Seawall modification	• Dust control during dust generating works; • Implementation of proper noise pollution 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


Designated Project 1 - Reclamation
Section
Within the reclamation, formed sites awaiting development or areas that are to be unused for long periods are to be hydroseeded
M1
N
KEY TO PROPOSED DEVELOPMENT
A GROUNDSCRAPER – MAXIMUM HEIGHT 50mPD
B CITY HALL AND/ OR REDEVELOPMENT – MAXIMUM HEIGHT 50mPD
C FESTIVAL MARKET – MAXIMUM HEIGHT 25mPD
D CENTRAL GOVERNMENT OFFICES (CGO) – MAXIMUM HEIGHT 180mPD
E RED CROSS DEVELOPMENT – MAXIMUM HEIGHT 130mPD
F G/IC DEVELOPMENT – MAXIMUM HEIGHT 80mPD
G WATERFRONT COMMERCIAL AND LEISURE USE – MAXIMUM HEIGHT 25mPD
H MARINE BASIN DEVELOPMENT – MAXIMUM HEIGHT 15mPD
KEY TO VISUALLY SENSITIVE RECEIVERS (VSRs)
1. HONG KONG CONVENTION AND EXHIBITION CENTRE
2. GRAND HYATT HOTEL
3. WAN CHAI TOWER
4. REVENUE TOWER
5. SHUI ON CENTRE
6. TELECOM HOUSE
HONG KONG ARTS CENTRE
HARBOUR VIEW INTERNATIONAL HOUSE
7. FLEET HOUSE
HARCOURT HOUSE
8. CHUNG NAM BUILDING
9. ASIAN HOUSE
10. HONG KONG POLICE FORCE HEADQUARTERS,MAY HOUSE
11. CITIC TOWER
12. PAGET HOUSE
13. MARRIOTT HOTEL
14. CONRAD HOTEL
15. ONE PACIFIC PLACE
16. TWO PACIFIC PLACE
ISLAND SHANGRI-LA HOTEL
17. UNITED CENTRE
18. QUEENSWAY GOVERNMENT OFFICES
19. THE SUPREME COURT
20. ADMIRALTY CENTRE
21. FAR EAST FINANCE CENTRE
22. LIPPO CENTRE
23. CITIBANK PLAZA
24. BANK OF CHINA TOWER
25. FAIRMONT HOUSE
26. BANK OF AMERICA TOWER
27. HUTCHISON HOUSE
28. CHEUNG KONG CENTER
29. PLA FORCES HONG KONG BUILDING-BLAKE BLOCK, AMETHYST BLOCK
31. FURAMA HOTEL
32. RITZ CARLTON HOTEL
33. HONG KONG CLUB BUILDING
34. BANK OF CHINA BUILDING
35. HONG KONG AND SHANGHAI BANK
36. STANDARD CHARTERED BANK
37. PRINCE'S BUILDING
38. MANDARIN ORIENTAL HOTEL
39. ST. GEORGE'S BUILDING
40. SWIRE HOUSE
41. JARDINE HOUSE
42. WORLD WIDE HOUSE
43. EXCHANGE SQUARE I AND II
44. EXCHANGE SQUARE III
45. ONE INTERNATIONAL FINANCE CENTRE
46. TWO INTERNATIONAL FINANCE CENTRE
47. CITY HALL
OPEN SPACE/ VICTORIA HARBOUR
01 HARCOURT GARDEN
02 STATUE SQUARE
M1 VICTORIA HARBOUR MARINE TRAFFIC
TRANSPORT CORRIDORS
-VIEW SENSITIVE PEDESTRIANS AND MOTORISTS
T1 HONG KONG CONVENTION AND EXHIBITION CENTRE.
ACCESS ROAD AND PEDESTRIAN PROMONADE
T2 CONVENTION AVENUE
T3 FENWICK PIER STREET
T4 FENWICK PIER STREET FLYOVER AND FOOTBRIDGE
T5 LUNG WUI ROAD
T6 TIM MEI AVENUE
T7 TIM WA AVENUE
T8 CONNAUGHT ROAD/ HARCOURT ROAD
T9 EDINBURGH PLACE
T10 CONNAUGHT PLACE
T11 NEW FERRY PIERS ACCESS ROAD
Legend:
Extent of Reclamation under this project
Plan
Scale 1:6000 at A3
© 2001 ACL
FILENAME: t:\draft3\2917\rep\r_0714.dgn

Designated Project 1 - Reclamation
Layout Plan and Section

Figure 14.9

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Territory Development Department
Hong Kong

Central Reclamation, Phase III

Studies, Site Investigation, Design and Construction

SUPPLEMENTARY AGREEMENT NO. 2 TO AGREEMENT No. CE 15/94

安建顧問公司
Atkins China Ltd

Road P2
Road P1
Section
Ferry Pier and Public Landing Steps
(Subject to Detail Design)
Refer to Figures 14.10a and 14.17 for landscape treatment to road corridors
M1
Road P1
Road P2
Road D6
Road D7
Road D8
Road D9
Road D11
N
KEY TO PROPOSED DEVELOPMENT
A GROUNDSCRAPER – MAXIMUM HEIGHT 50mPD
B CITY HALL AND/ OR REDEVELOPMENT – MAXIMUM HEIGHT 50mPD
C FESTIVAL MARKET – MAXIMUM HEIGHT 25mPD
D CENTRAL GOVERNMENT OFFICES (CGO) – MAXIMUM HEIGHT 180mPD
E RED CROSS DEVELOPMENT – MAXIMUM HEIGHT 130mPD
F G/IC DEVELOPMENT – MAXIMUM HEIGHT 80mPD
G WATERFRONT COMMERCIAL AND LEISURE USE – MAXIMUM HEIGHT 25mPD
H MARINE BASIN DEVELOPMENT – MAXIMUM HEIGHT 15mPD
KEY TO VISUALLY SENSITIVE RECEIVERS (VSRs)
1. HONG KONG CONVENTION AND EXHIBITION CENTRE
2. GRAND HYATT HOTEL
3. WAN CHAI TOWER
4. REVENUE TOWER
5. SHUI ON CENTRE
6. TELECOM HOUSE
HONG KONG ARTS CENTRE
HARBOUR VIEW INTERNATIONAL HOUSE
7. FLEET HOUSE
HARCOURT HOUSE
8. CHUNG NAM BUILDING
9. ASIAN HOUSE
10. HONG KONG POLICE FORCE HEADQUARTERS,MAY HOUSE
11. CITIC TOWER
12. PAGET HOUSE
13. MARRIOTT HOTEL
14. CONRAD HOTEL
15. ONE PACIFIC PLACE
16. TWO PACIFIC PLACE
ISLAND SHANGRI-LA HOTEL
17. UNITED CENTRE
18. QUEENSWAY GOVERNMENT OFFICES
19. THE SUPREME COURT
20. ADMIRALTY CENTRE
21. FAR EAST FINANCE CENTRE
22. LIPPO CENTRE
23. CITIBANK PLAZA
24. BANK OF CHINA TOWER
25. FAIRMONT HOUSE
26. BANK OF AMERICA TOWER
27. HUTCHISON HOUSE
28. CHEUNG KONG CENTER
29. PLA FORCES HONG KONG BUILDING-BLAKE BLOCK, AMETHYST BLOCK
31. FURAMA HOTEL
32. RITZ CARLTON HOTEL
33. HONG KONG CLUB BUILDING
34. BANK OF CHINA BUILDING
35. HONG KONG AND SHANGHAI BANK
36. STANDARD CHARTERED BANK
37. PRINCE'S BUILDING
38. MANDARIN ORIENTAL HOTEL
39. ST. GEORGE'S BUILDING
40. SWIRE HOUSE
41. JARDINE HOUSE
42. WORLD WIDE HOUSE
43. EXCHANGE SQUARE I AND II
44. EXCHANGE SQUARE III
45. ONE INTERNATIONAL FINANCE CENTRE
46. TWO INTERNATIONAL FINANCE CENTRE
47. CITY HALL
OPEN SPACE/ VICTORIA HARBOUR
01 HARCOURT GARDEN
02 STATUE SQUARE
M1 VICTORIA HARBOUR MARINE TRAFFIC
TRANSPORT CORRIDORS
-VIEW SENSITIVE PEDESTRIANS AND MOTORISTS
T1 HONG KONG CONVENTION AND EXHIBITION CENTRE.
ACCESS ROAD AND PEDESTRIAN PROMONADE
T2 CONVENTION AVENUE
T3 FENWICK PIER STREET
T4 FENWICK PIER STREET FLYOVER AND FOOTBRIDGE
T5 LUNG WUI ROAD
T6 TIM MEI AVENUE
T7 TIM WA AVENUE
T8 CONNAUGHT ROAD/ HARCOURT ROAD
T9 EDINBURGH PLACE
T10 CONNAUGHT PLACE
T11 NEW FERRY PIERS ACCESS ROAD
Legend:
Extent of Primary and District Distributor Roads under this project
Note:
For locations of Primary VSRs refer to Figure 14.19.
Plan
FILENAME: f:\draft3\2917\rep\r_076.dgn
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Designated Project 2 - Primary and District Distributor Roads
Layout Plan and Section

Figure 14.10

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Territory Development Department
Hong Kong

Central Reclamation, Phase III

Studies, Site Investigation, Design and Construction

SUPPLEMENTARY AGREEMENT NO. 2 TO AGREEMENT No. CE 15/94

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Atkins China Ltd

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

Figure 14.11

KEY TO PROPOSED DEVELOPMENT

- A GROUNDSCRAPER – MAXIMUM HEIGHT 50mPD
- B CITY HALL AND/ OR REDEVELOPMENT – MAXIMUM HEIGHT 50mPD
- C FESTIVAL MARKET – MAXIMUM HEIGHT 25mPD
- D CENTRAL GOVERNMENT OFFICES (CGO) – MAXIMUM HEIGHT 180mPD
- E RED CROSS DEVELOPMENT – MAXIMUM HEIGHT 130mPD
- F G/IC DEVELOPMENT – MAXIMUM HEIGHT 80mPD
- G WATERFRONT COMMERCIAL AND LEISURE USE – MAXIMUM HEIGHT 25mPD
- H MARINE BASIN DEVELOPMENT – MAXIMUM HEIGHT 15mPD

KEY TO VISUALLY SENSITIVE RECEIVERS (VSRs)

1. HONG KONG CONVENTION AND EXHIBITION CENTRE
2. GRAND HYATT HOTEL
3. WAN CHAI TOWER
4. REVENUE TOWER
5. SHUI ON CENTRE
6. TELECOM HOUSE
   HONG KONG ARTS CENTRE
   HARBOUR VIEW INTERNATIONAL HOUSE
7. FLEET HOUSE
   HARCOURT HOUSE
8. CHUNG NAM BUILDING
9. ASIAN HOUSE
10. HONG KONG POLICE FORCE HEADQUARTERS,MAY HOUSE
11. CITIC TOWER
12. PAGET HOUSE
13. MARRIOTT HOTEL
14. CONRAD HOTEL
15. ONE PACIFIC PLACE
16. TWO PACIFIC PLACE
    ISLAND SHANGRI-LA HOTEL
17. UNITED CENTRE
18. QUEENSWAY GOVERNMENT OFFICES
19. THE SUPREME COURT
20. ADMIRALTY CENTRE
21. FAR EAST FINANCE CENTRE
22. LIPPO CENTRE
23. CITIBANK PLAZA
24. BANK OF CHINA TOWER
25. FAIRMONT HOUSE
26. BANK OF AMERICA TOWER
27. HUTCHISON HOUSE
28. CHEUNG KONG CENTER
29. PLA FORCES HONG KONG BUILDING-BLAKE BLOCK, AMETHYST BLOCK
31. FURAMA HOTEL
32. RITZ CARLTON HOTEL
33. HONG KONG CLUB BUILDING
34. BANK OF CHINA BUILDING
35. HONG KONG AND SHANGHAI BANK
36. STANDARD CHARTERED BANK
37. PRINCE'S BUILDING
38. MANDARIN ORIENTAL HOTEL
39. ST. GEORGE'S BUILDING
40. SWIRE HOUSE
41. JARDINE HOUSE
42. WORLD WIDE HOUSE
43. EXCHANGE SQUARE I AND II
44. EXCHANGE SQUARE III
45. ONE INTERNATIONAL FINANCE CENTRE
46. TWO INTERNATIONAL FINANCE CENTRE
47. CITY HALL

OPEN SPACE/ VICTORIA HARBOUR

- 01 HARCOURT GARDEN
- 02 STATUE SQUARE
- M1 VICTORIA HARBOUR MARINE TRAFFIC

TRANSPORT CORRIDORS
-VIEW SENSITIVE PEDESTRIANS AND MOTORISTS

- T1 HONG KONG CONVENTION AND EXHIBITION CENTRE ACCESS ROAD AND PEDESTRIAN PROMONADE
- T2 CONVENTION AVENUE
- T3 FENWICK PIER STREET
- T4 FENWICK PIER STREET FLYOVER AND FOOTBRIDGE
- T5 LUNG WUI ROAD
- T6 TIM MEI AVENUE
- T7 TIM WA AVENUE
- T8 CONNAUGHT ROAD/ HARCOURT ROAD
- T9 EDINBURGH PLACE
- T10 CONNAUGHT PLACE
- T11 NEW FERRY PIERS ACCESS ROAD

FILENAME: t:\draft3\2917\rep\r_0717.dgn

Designated Project 4 - North Island Line Protection Works
Layout Plan and Section

Figure 14.12

Figure 2.2

Project Organization Chart

Project Organization Chart

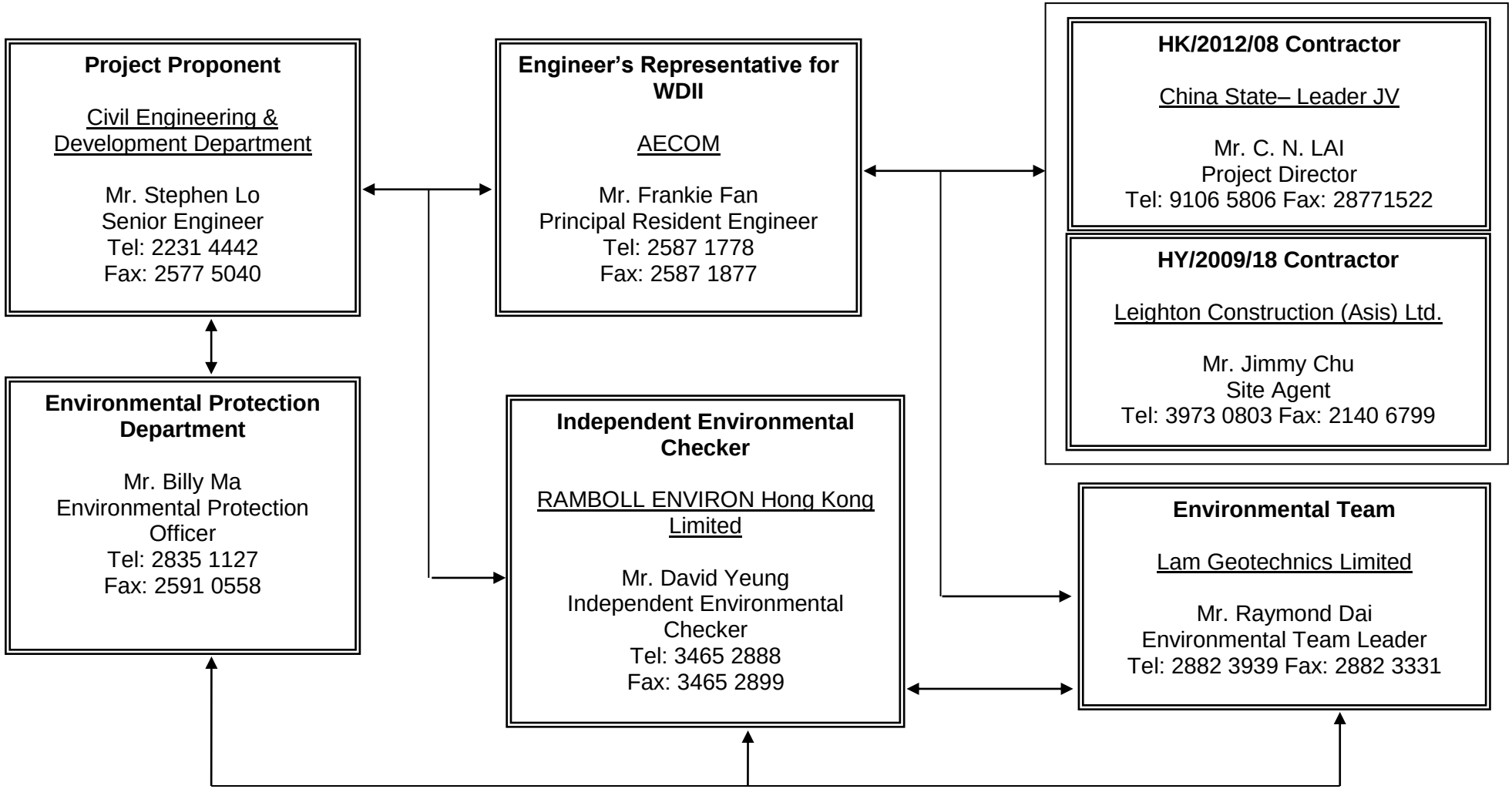
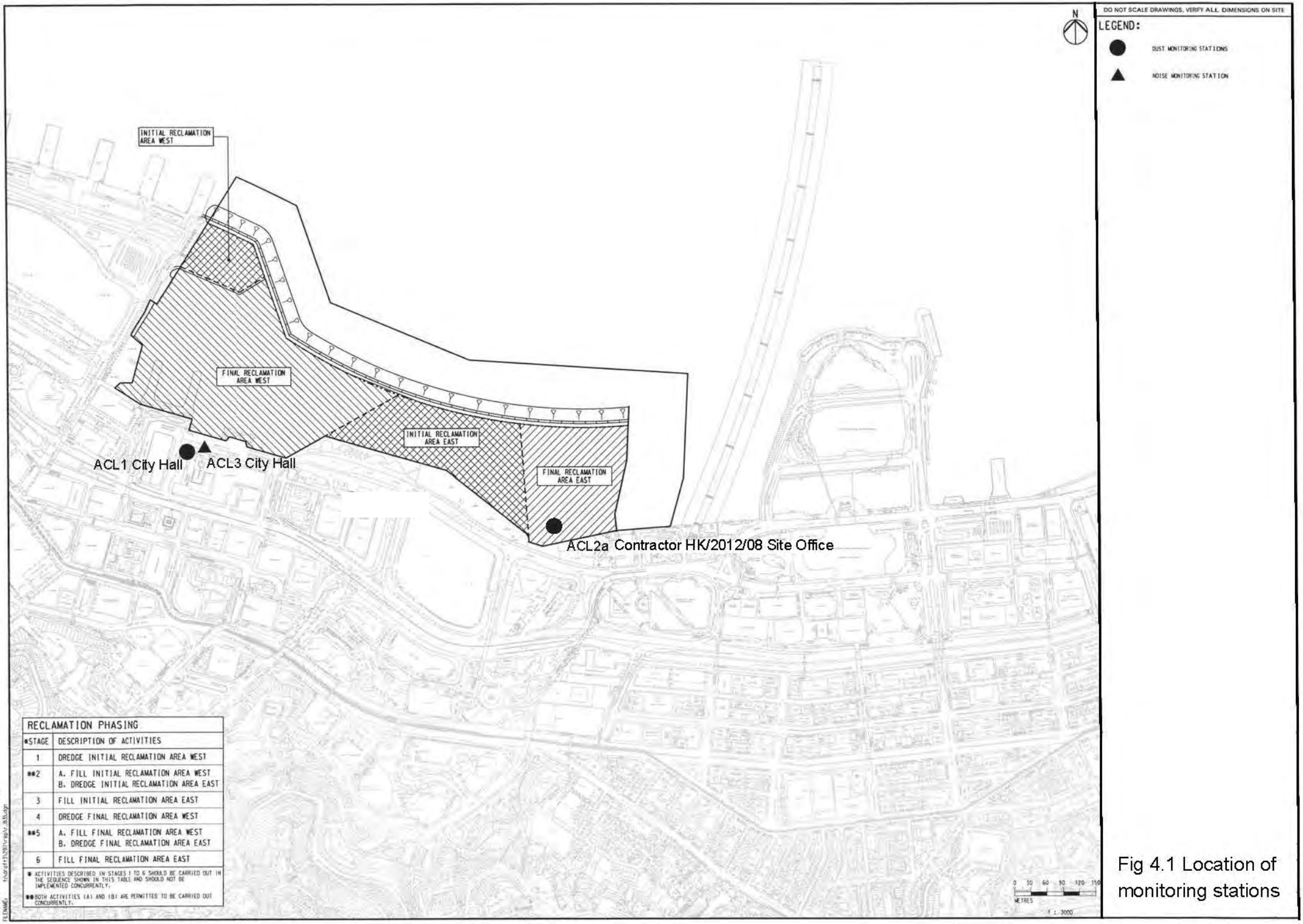


Figure 4.1

Locations of Monitoring Stations

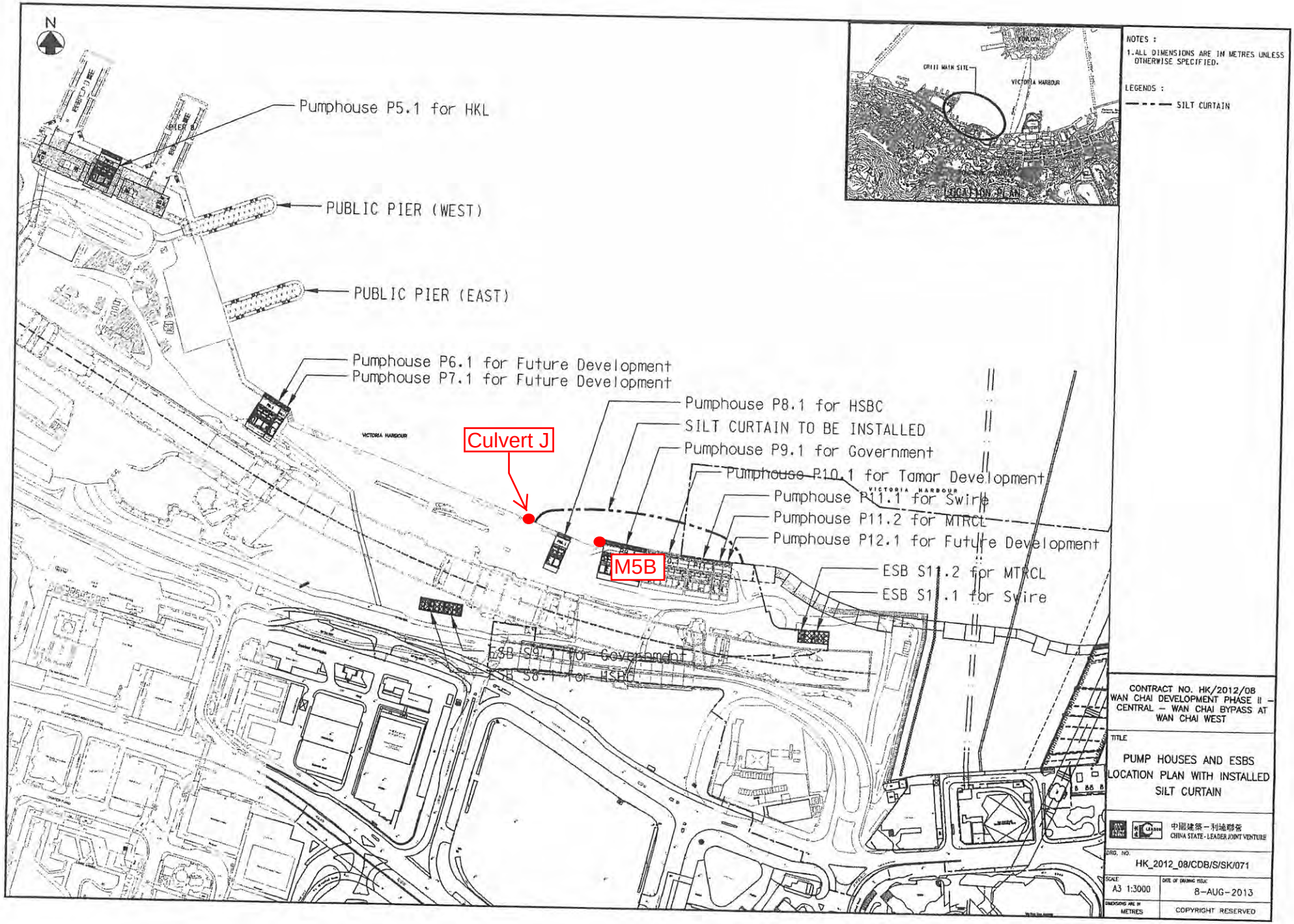


RECLAMATION PHASING	
*STAGE	DESCRIPTION OF ACTIVITIES
1	DREDGE INITIAL RECLAMATION AREA WEST
**2	A. FILL INITIAL RECLAMATION AREA WEST B. DREDGE INITIAL RECLAMATION AREA EAST
3	FILL INITIAL RECLAMATION AREA EAST
4	DREDGE FINAL RECLAMATION AREA WEST
**5	A. FILL FINAL RECLAMATION AREA WEST B. DREDGE FINAL RECLAMATION AREA EAST
6	FILL FINAL RECLAMATION AREA EAST

* ACTIVITIES DESCRIBED IN STAGES 1 TO 6 SHOULD BE CARRIED OUT IN THE SEQUENCE SHOWN IN THIS TABLE AND SHOULD NOT BE IMPLEMENTED CONCURRENTLY.

**BOTH ACTIVITIES (A) AND (B) ARE PERMITTED TO BE CARRIED OUT CONCURRENTLY.

Fig 4.1 Location of monitoring stations


N
Pumphouse P5.1 for HKL
PUBLIC PIER (WEST)
PUBLIC PIER (EAST)
Pumphouse P6.1 for Future Development
Pumphouse P7.1 for Future Development
Pumphouse P8.1 for HSBC
SILT CURTAIN TO BE INSTALLED
Pumphouse P9.1 for Government
Pumphouse P10.1 for Tamar Development
Pumphouse P11.1 for Swire
Pumphouse P11.2 for MTRCL
Pumphouse P12.1 for Future Development
Culvert J
M5B
ESB S11.2 for MTRCL
ESB S11.1 for Swire
ESB S9.1 for Government
ESB S8.1 for HSBC
VICTORIA HARBOUR
LOCATION PLAN
NOTES :
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
LEGENDS :
SILT CURTAIN
CONTRACT NO. HK/2012/08
WAN CHAI DEVELOPMENT PHASE II – CENTRAL – WAN CHAI BYPASS AT WAN CHAI WEST
TITLE
PUMP HOUSES AND ESBS LOCATION PLAN WITH INSTALLED SILT CURTAIN
中國建築－利迪聯營
CHINA STATE - LEADER JOINT VENTURE
DRG. NO.
HK_2012_08/CDB/S/SK/071
SCALE
A3 1:3000
DATE OF DRAWING ISSUE
8-AUG-2013
DIMENSIONS ARE IN METRES
COPYRIGHT RESERVED

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	C	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; ·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;	Various	Area wide, proposals at design stage for implementation during construction	D/C	P	--

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
		· existing roads upgraded to 'marry' with the proposed landscape framework; · Hydroseeding of reclamation if there is no immediate use of the site, periphery of the reclamation; · Designated service corridors beneath footpaths to prevent potential impacts upon vegetation during services maintenance; · Sensitively designed colour themes to footpath paving areas; and · Sensitively designed seawall to enhance the recreational value of the future promenade can be included.	Various	Area wide, proposals at design stage for implementation during construction	D/C	P	--
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	C	P, R, A, C	-
		Use of noise barriers (in the form if purpose built site hoarding of 3 - 5 m height and surface density of at least 7 kgm^2 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	C	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	C	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	C	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	C	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	C	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	C	P,R,A,C	4
6	Construction Air Quality Control Requirements	· 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	C	P,R,A,C	4
		· 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	C	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	C	P,R,A,C	6,7
		· Watering during excavation and material handling.	TDD's Contractor	Works Area During construction End of construction	C	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	C	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	C	P,R,A,C	6,7
		· Covers for dusty stockpiles	TDD's Contractor	Works Area During construction End of construction	C	P,R,A,C	6
		· All plant shall be maintained ot prevent any undue air emmissions	TDD's Contractor	Works Area	C	P,R,A,C	6

No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
				During construction End of construction			
7	Construction Water 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 m^2/hour Maximum Daily Filling Rate : 17,727 m^3/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. · no dredging should take place under very bad weather conditions.	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	C	R	7
		· 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; · 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	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	C	R	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
		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 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 m^3 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.	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	C	R	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
		Specific Measures Associated with Dredging and Filling Works when CRIII Dredging and Filling Works are being constructed concurrently with WDII Dredging and Filling Works · deployment of silt curtains around the dredging and fill release points to contain SS within the construction site during dredging and filling; · 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.	TDD's Contractor	Reclamation Areas as appropriate When CRIII and WDII - Dredging and Filling Works occur concurrently End of Concurrent Works	C	R	-
		Specific Measures Associated with Floating Debris The result of the floating debris simulation has shown that the intermediate layout of the proposed reclamation has potential to trap floating rubbish. Monitoring and control of the construction activities should be taken to prevent the release of construction waste and rubbish from the construction site. Collection of floating debris should be carried out at least once every day by the CRIII Contractor, and more frequently (two or three times per day) at the water body south of the Initial Reclamation Area West and near the cooling water intakes where large substances could block the screens and filter pipes of the intakes and reduce their efficiency. Debris should be collected and taken to landfill sites for disposal.	TDD's Contractor	Whole reclamation area During construction At end of construction	C	R	-
		Specific Measures for Dealing with Culvert L Outfall at Completion of CRIII Eastern Seawall As a mitigation measure, to avoid the accumulation of water borne pollutants within a temporary embayment to the east of CRIII, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the CRIII Contractor on completion of the CRIII eastern seawall. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The CRIII Contractor will maintain this barrier until the WDII Contractor takes possession of this site, whereupon the WDII Contractor will takeover the maintenance of this barrier until the reclamation works in this area are carried out and the new Culvert L extension is constructed.	TDD's Consultant	Culvert L Outfall During Construction To handover to WDII Contractor	C	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: - Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. - 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.	TDD's Contractor	Works Area During construction End of construction	C	P,R,A,C	7
		· 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
		· Boring and Drilling Water - 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. · Wastewater from Concrete Batching and Precast Concrete Casting - 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. - 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. - 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.	TDD's Contractor	Work Area During construction End of construction	C	P,R,A,C	7
		· Wheel Washing Water - 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. · Bentonite Slurries - 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).	TDD's Contractor	Work Area During construction End of construction	C	P,R,A,C	7

No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		- If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.					
		· 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 final disposal and shall be disposed of at the East Sha Chau Contaminated Mud Pits.	TDD's Contractor	Whole Reclamation Area During Reclamation Works End of Reclamation Work	C	R	7
		Segregation and Disposal of Wastes · inert demolition/construction waste material when deemed suitable for reclamation or land formation should be re-used on-site; · 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; · general refuse should be recycled where possible or disposed of at public landfill.	TDD's Contractor	Works Areas During Construction End of Construction	C	P, R, A, C	1,8, 9
		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 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; · 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; · the necessary waste disposal permits and registrations should be obtained from the appropriate authorities, if they are required, in accordance with the Waste Disposal	TDD's Contractor	Works Areas During Construction End of Construction	C	P, R, A, C	1, 8, 9

No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		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.					
9	Construction Landscape and Visual Control Requirements	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; · 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.	TDD's design consultant	Area wide during design and contract preparation	D	P, R, A, C	11, 12, 13,14
10	Monitoring and Audit	To be carried out in accordance with the Schedule in the EM and A Manual	TDD*/Contractor/ RSS TDD’s design consultant	Works areas During construction End of construction and within one year of operational phase Area wide during design and contract preparation	C/O D	P, R, A, C P, R, A, C	1 11,12,13,14

Relevant Guidelines Legislation

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

Permit Conditions apply to

P Primary and District Distributor Roads

R Reclamation

A North Island Line Protection Works

C Central and Wanchai Bypass

\+ These items should be excluded from any Environmental Permit conditions as these refer to future development of the area (which is not designated under the EIAO), and are not related to reclamation and dredging activities which are designated, and can hence be controlled through EP conditions.

* Normally undertaken by a specialist monitoring team employed directly by the proponent and audited by the Environmental Works Checker.

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 - 19:00 hours on normal weekdays	When one documented complaint is received.	70 dB(A)

Action and Limit Level for Air Quality Monitoring

Monitoring Locations	1-hour TSP Level 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

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

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

DATA TABULATION

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

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

TISCH ENVIRONMENTAL, INC.
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ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 20, 2016 Rootsmeter S/N 0438320 Ta (K) - 293
Operator Tisch Orifice I.D. - 3166 Pa (mm) - 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	NA	NA	1.00	1.4270	3.2	2.00
2	NA	NA	1.00	1.0220	6.4	4.00
3	NA	NA	1.00	0.9100	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7180	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9967	0.6985	1.4150		0.9957	0.6977	0.8851
0.9925	0.9711	2.0010		0.9915	0.9701	1.2517
0.9904	1.0883	2.2372		0.9893	1.0872	1.3995
0.9892	1.1332	2.3464		0.9882	1.1320	1.4678
0.9840	1.3705	2.8299		0.9830	1.3691	1.7702
Qstd slope (m) =		2.10714		Qa slope (m) =		1.31946
intercept (b) =		-0.05158		intercept (b) =		-0.03226
coefficient (r) =		0.99978		coefficient (r) =		0.99978
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL1	**Calbration Date**	:	18-May-16
Equipment no.	:	HVS014	**Calbration Due Date**	:	18-Jul-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	299	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00072	**Intercept, bc**	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	30-Jun-16	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	Manometer Reading H (inches of water) (up)	(down)	(difference)	Q_{std} (m^3 / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
1	6.8	6.8	13.6	1.8432	62	61.7954
2	5.6	5.6	11.2	1.6732	56	55.8152
3	4.4	4.4	8.8	1.4839	52	51.8284
4	2.8	2.8	5.6	1.1849	42	41.8614
5	1.8	1.8	3.6	0.9513	34	33.8878

By Linear Regression of Y on X

Slope, m	=	30.8071	Intercept, b	=	5.0668
Correlation Coefficient*	=	0.9979			
Calibration Accepted	=	Yes/~~No~~**			

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

Calibrated by	:	Kit Au	**Checked by**	:	Pauline Wong
Date	:	18-May-16	**Date**	:	18-May-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL1	**Calbration Date**	:	13-Jul-16
Equipment no.	:	HVS014	**Calbration Due Date**	:	13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1005	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	Manometer Reading H (inches of water) (up)	(down)	(difference)	Q_{std} (m^3 / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ Y-axis
1	5.9	5.9	11.8	1.6372	61	60.3460
2	4.9	4.9	9.8	1.4942	55	54.4103
3	3.8	3.8	7.6	1.3188	50	49.4639
4	2.3	2.3	4.6	1.0314	41	40.5604
5	1.5	1.5	3.0	0.8377	32	31.6569

By Linear Regression of Y on X

Slope, m	=	34.4685	Intercept, b	=	3.7243
Correlation Coefficient*	=	0.9968			
Calibration Accepted	=	Yes/~~No~~**			

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

Calibrated by	:	Kit Au	**Checked by**	:	Pauline Wong
Date	:	13-Jul-16	**Date**	:	13-Jul-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	: ACL2a	**Calbration Date**	: 18-May-16
Equipment no.	: HVS011	**Calbration Due Date**	: 18-Jul-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	299	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of TSP

Calibration Point	Manometer Reading H (inches of water) (up)	(down)	(difference)	Q_{std} (m^3 / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
1	6.6	6.6	13.2	1.8160	62	61.7954
2	5.4	5.4	10.8	1.6432	56	55.8152
3	4.4	4.4	8.8	1.4839	52	51.8284
4	2.9	2.9	5.8	1.2058	42	41.8614
5	1.9	1.9	3.8	0.9772	32	31.8944

By Linear Regression of Y on X

Slope, m = 35.0941 Intercept, b = -1.3771

Correlation Coefficient* = 0.9967

Calibration Accepted = Yes/~~No~~**

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

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

Calibrated by	: Kit Au	**Checked by**	: Pauline Wong
Date	: 18-May-16	**Date**	: 18-May-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	: ACL2a	**Calbration Date**	: 13-Jul-16
Equipment no.	: HVS011	**Calbration Due Date**	: 13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1005	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std} (m^3 / min.) X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.4	6.4	12.8	1.7042	62	61.3353
2	5.5	5.5	11.0	1.5816	56	55.3996
3	4.3	4.3	8.6	1.4013	50	49.4639
4	2.8	2.8	5.6	1.1355	42	41.5497
5	1.8	1.8	3.6	0.9153	32	31.6569

By Linear Regression of Y on X

Slope, m = 35.9960 Intercept, b = -0.6259

Correlation Coefficient* = 0.9968

Calibration Accepted = Yes/~~No~~**

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

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

Calibrated by	: Kit Au	**Checked by**	: Pauline Wong
Date	: 13-Jul-16	**Date**	: 13-Jul-16

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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E-mail: smec@cigismec.com Website: www.cigismec.com

CERTIFICATE OF CALIBRATION

Certificate No.: 16CA0226 04-01 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Class 1)	,	Microphone
Manufacturer:	Larson Davis	,	-
Type/Model No.:	Model 831	,	377B02
Serial/Equipment No.:	0003227	,	SNLW135892
Adaptors used:	-	,	-

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

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

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	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.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 01-Mar-2016 **Company Chop:**

SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

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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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 16CA0226 04-01 **Page** 2 **of** 2

1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertainty (dB) / Coverage Factor	
Self-generated noise	A	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 $1/10^3$ at 4kHz	Pass	0.3	
	1 ms burst duty factor $1/10^4$ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

Test:	Subtest	Status	Expanded 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.

- End -

Calibrated by: Fung Chi Yip **Date:** 27-Feb-2016

Checked by: Lam Tze Wai **Date:** 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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Fax : (852) 2555 7533

HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 15CA1203 04-02 **Page:** 1 **of** 2

Item tested

Description:	Acoustical Calibrator (Class 1)
Manufacturer:	Rion Co., Ltd.
Type/Model No.:	NC-73
Serial/Equipment No.:	10707358
Adaptors used:	-

Item submitted by

Curstomer:	Lam Geotechnics Ltd.
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-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

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

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.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 05-Dec-2015 **Company Chop:**

SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

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

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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 15CA1203 04-02 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.

(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.

- End -

Calibrated by: Fung Chi Yip Date: 04-Dec-2015

Checked by: Lam Tze Wai 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.

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CERTIFICATE OF CALIBRATION

Certificate No.: 16CA0513 01-02 **Page:** 1 **of** 2

Item tested

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

Item submitted by

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:	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:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

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

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 18-May-2016 **Company Chop:**

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

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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.

(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.

- End -

Calibrated by: Fung Chi Yip **Date:** 17-May-2016

Checked by: Lam Tze Wai **Date:** 18-May-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.

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610200**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**07/04/2016**		
DATE OF ISSUE:	**14/04/2016**		
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.:	1309192
Equipment No.:	---
Date of Calibration:	08/04/2016

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: _____ Issue Date: 14/04/2016

Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610200
DATE OF ISSUE: 14/04/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1309192
Equipment No.:	---
Date of Calibration:	08/04/2016
Date of next Calibation:	08/07/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)
0	0.00	---
4	3.98	-0.5
10	9.88	-1.2
40	41.3	3.3
100	102	2.0
400	387	-3.3
1000	996	-0.4
	Tolerance Limit (±%)	10.0

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610339**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**05/07/2016**		
DATE OF ISSUE:	**11/07/2016**		
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.:	1309192
Equipment No.:	---
Date of Calibration:	11/07/2016

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: _____ Issue Date: 11/07/2016

Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610339
DATE OF ISSUE: 11/07/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1309192
Equipment No.:	---
Date of Calibration:	11/07/2016
Date of next Calibation:	11/10/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	4.20	5.0%
10	10.0	0.0%
40	39.0	-2.5%
100	100	0.0%
400	390	-2.5%
1000	990	-1.0%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT: MR. SAM LAM **WORK ORDER:** HK1610168
CLIENT: LAM GEOTECHNICS LIMITED
DATE RECEIVED: 07/04/2016
DATE OF ISSUE: 14/04/2016
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.:	1203015
Equipment No.:	---
Date of Calibration:	08/04/2016

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: _____ Issue Date: 14/04/2016
Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610168
DATE OF ISSUE: 14/04/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203015
Equipment No.:	---
Date of Calibration:	08/04/2016
Date of next Calibation:	08/07/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)
0	0.00	---
4	4.13	3.3
10	9.75	-2.5
40	41.2	3.0
100	98.4	-1.6
400	407	1.8
1000	976	-2.4
	Tolerance Limit (±%)	10.0

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610345**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**05/07/2016**		
DATE OF ISSUE:	**11/07/2016**		
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.:	1203015
Equipment No.:	---
Date of Calibration:	11/07/2016

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: _____ Issue Date: 11/07/2016

Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610345
DATE OF ISSUE: 11/07/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203015
Equipment No.:	---
Date of Calibration:	11/07/2016
Date of next Calibation:	11/10/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	4.10	2.5%
10	10.7	7.0%
40	40.7	1.8%
100	105	5.0%
400	396	-1.0%
1000	1007	0.7%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT: MR. SAM LAM **WORK ORDER:** HK1610156
CLIENT: LAM GEOTECHNICS LIMITED
DATE RECEIVED: 24/03/2016
DATE OF ISSUE: 01/04/2016
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.:	1512036
Equipment No.:	---
Date of Calibration:	01/04/2016

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: _____ Issue Date: 01/04/2016
Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610156
DATE OF ISSUE: 01/04/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1512036
Equipment No.:	---
Date of Calibration:	01/04/2016
Date of next Calibation:	01/07/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)
0	0.00	---
4	3.89	-2.8
10	9.90	-1.0
40	39.6	-1.0
100	98.4	-1.6
400	399	-0.2
1000	999	-0.1
	Tolerance Limit (±%)	10.0

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610364**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**19/07/2016**		
DATE OF ISSUE:	**19/07/2016**		
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.:	1512036
Equipment No.:	---
Date of Calibration:	19/07/2016

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: _____ Issue Date: 19/07/2016

Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610364
DATE OF ISSUE: 19/07/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1512036
Equipment No.:	---
Date of Calibration:	19/07/2016
Date of next Calibation:	19/10/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	4.06	1.5%
10	9.45	-5.5%
40	41.1	2.8%
100	99.3	-0.7%
400	427	6.8%
1000	992	-0.8%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1610202
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	21/04/2016
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	:	HK1610202
Test Item No.	:	HK1610202-01
Test Item Details		
Test Item Description	:	Multifunctional Meter
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	14E100105
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	14-Apr-16
Test Item Calibration Date	:	15-Apr-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.

Approved Signatory : 

Ms. Wong Po Yan, Pauline
(Testing Engineer)

Issue Date: 21/04/2016

Pilot Testing Limited
Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon
Tel: (852) 2527 6691 email: test@pilot-testing.com

PILOT TESTING

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1610202
DATE OF ISSUE: 21/04/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14E100105
Date of Calibration	15-Apr-16
Date of next Calibation	15-Jul-16

Parameters:

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

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.1	9.8	-0.3
20.3	20.6	+0.3
30.3	30.1	-0.2
	Tolerance 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	4.08	4.02	-0.06
7.0	7.04	7.07	+0.03
10.0	9.98	10.03	+0.05
	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	12.89	12.75	-1.09
0.2000	24.80	24.99	+0.77
0.5000	58.67	58.44	-0.39
	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)
8.75	8.69	-0.06
4.87	4.92	+0.05
2.84	2.92	+0.08
	Tolerance Limit	±0.20

Remarks:
(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise 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 (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -

PILOT TESTING

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1610344
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	11/7/16
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No.	:	HK1610344
Test Item No.	:	HK1610344-01
Test Item Details		
Test Item Description	:	Multifunctional Meter
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	14E100105
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	6-Jul-16
Test Item Calibration Date	:	11-Jul-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.

Approved Signatory : 

Ms. Wong Po Yan, Pauline
(Testing Engineer)

Issue Date: 11/7/16

Pilot Testing Limited
Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon
Tel: (852) 2527 6691 email: test@pilot-testing.com

PILOT TESTING

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1610344
DATE OF ISSUE: 11/7/16
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14E100105
Date of Calibration	11-Jul-16
Date of next Calibation	11-Oct-16

Parameters:

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

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
11.6	11.8	0.2
21.5	21.5	0.0
31.8	31.4	-0.4
	Tolerance 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	4.04	3.99	-0.05
7.0	7.04	7.11	0.07
10.0	9.98	10.06	0.08
	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	12.76	12.69	-0.55
0.2000	24.40	24.30	-0.41
0.5000	56.20	55.80	-0.71
	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)
7.20	7.17	-0.03
5.10	4.94	-0.16
4.00	3.92	-0.08
	Tolerance Limit	±0.20

Remarks:
(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise 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 (accoridng 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.

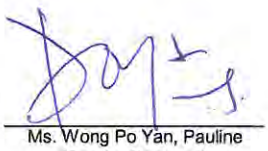
- End of Report -

PILOT TESTING

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1610157
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	20/04/2016
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Performance check / Calibration Job No.	:	HK1610157
Test Item No.	:	HK1610157-01
Test Item Details		
Test Item Description	:	Multifunctional Meter
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	14M100277
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	13-Apr-16
Test Item Performance check / Calibration Date	:	15-Apr-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.

Approved Signatory : 

Ms. Wong Po Yan, Pauline
(Testing Engineer)

Issue Date: 20/04/2016

PILOT TESTING

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1610157
DATE OF ISSUE: 20/04/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14M100277
Date of Performance check / Calibration	15-Apr-16
Date of next Performance check / Calibation	15-Jul-16

Parameters:

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

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.1	10.3	+0.2
20.3	20.1	-0.2
29.9	30.3	+0.4
	Tolerance 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	4.06	4.11	+0.05
7.0	7.05	6.94	-0.11
10.0	10.11	10.09	-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	12.89	12.77	-0.93
0.2000	24.80	24.97	+0.69
0.5000	58.67	58.54	-0.22
	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)
8.54	8.66	+0.12
4.41	4.49	+0.08
2.23	2.19	-0.04
	Tolerance Limit	±0.20

Remarks:
(1) Maxium tolerance and performance check / calibration frequency stated in the report, unless otherewise 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 (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1610365
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	19/07/2016
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	:	HK1610365
Test Item No.	:	HK1610365-01
Test Item Details		
Test Item Description	:	Multifunctional Meter
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	14M100277
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	19-Jul-16
Test Item Calibration Date	:	19-Jul-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.

Approved Signatory : 

Ms. Wong Po Yan, Pauline
(Testing Engineer)

Issue Date: 19/07/2016

PILOT TESTING

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1610365
DATE OF ISSUE: 19/07/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14M100277
Date of Calibration	19-Jul-16
Date of next Calibation	19-Oct-16

Parameters:

Temperature (Method Ref: Section 6 of International 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	10.8	-0.1
20.8	20.7	-0.1
29.5	29.3	-0.2
	Tolerance 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	4.23	4.22	-0.01
7.0	7.03	6.91	-0.12
10.0	10.04	9.93	-0.11
	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	12.60	12.63	0.24
0.2000	24.30	24.40	0.41
0.5000	57.80	57.70	-0.17
	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)
8.23	8.34	0.11
6.00	5.93	-0.07
4.60	4.47	-0.13
	Tolerance Limit	±0.20

Remarks:
(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise 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 (accoridng 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.

- End of Report -

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
July 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Jul	2-Jul Impact WQM Mid-ebb 10:41 Mid-flood 17:22
3-Jul	4-Jul Impact WQM Mid-ebb 12:16 Mid-flood 19:13	5-Jul 24hr TSP	6-Jul 1hr TSP Impact WQM Mid-flood 20:43	7-Jul	8-Jul Impact WQM Mid-ebb 15:06 Mid-flood 22:05	9-Jul
10-Jul	11-Jul 24hr TSP (ACL2a) Impact WQM Mid-ebb 17:04	12-Jul 24hr TSP (ACL1) 1hr TSP Impact WQM Mid-flood 0:11	13-Jul	14-Jul Impact WQM Mid-flood 1:34 Mid-ebb 9:03	15-Jul	16-Jul 24hr TSP Impact WQM Mid-ebb 10:13 Mid-flood 17:20
17-Jul	18-Jul 1hr TSP Impact WQM Mid-ebb 11:21 Mid-flood 18:36	19-Jul	20-Jul Impact WQM Mid-ebb 12:36 Mid-flood 19:41	21-Jul	22-Jul 24hr TSP Impact WQM Mid-ebb 13:57 Mid-flood 20:53	23-Jul 1hr TSP
24-Jul	25-Jul Impact WQM Mid-flood 9:44 Mid-ebb 16:06	26-Jul	27-Jul Impact WQM Mid-flood 12:12 Mid-ebb 18:07	28-Jul 24hr TSP	29-Jul 1hr TSP Impact WQM Mid-ebb 8:39 Mid-flood 15:11	30-Jul
31-Jul						

Remark:

Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 6 July 2016 during ebb tide was cancelled.

Due to interruption of electricity, the 24hr TSP at ACL1 was rescheduled from 11 July 2016 to 12 July 2016.

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
August 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug
			24hr TSP	1hr TSP		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 11:20		Mid-ebb 12:46		Mid-ebb 14:02	
	Mid-flood 18:19		Mid-flood 19:37		Mid-flood 20:42	
7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug
		24hr TSP	1hr TSP			
	Impact WQM		Impact WQM	Impact WQM		Impact WQM
	Mid-flood 9:23		Mid-flood 23:32	Mid-ebb 6:13		Mid-flood 1:04
	Mid-ebb 15:46					Mid-ebb 8:59
14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug
	24hr TSP	1hr TSP				24hr TSP
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 10:18		Mid-ebb 11:34		Mid-ebb 12:57	
	Mid-flood 17:45		Mid-flood 18:41		Mid-flood 19:39	
21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug
	1hr TSP				24hr TSP	1hr TSP
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood 8:48		Mid-flood 10:47		Mid-ebb 7:09	
	Mid-ebb 15:03		Mid-ebb 16:44		Mid-flood 13:47	
28-Aug	29-Aug	30-Aug	31-Aug			
	Impact WQM		Impact WQM			
	Mid-ebb 10:21		Mid-ebb 11:48			
	Mid-flood 17:23		Mid-flood 18:32			

Appendix 5.2

Continuous Noise Monitoring Results and Graphical Presentations

Continuous Noise Monitoring Data ACL3 (City Hall)

Normal Day 07:00-19:00		7/7/16 13:01	63	13/7/16 7:31	53	18/7/16 14:01	64	23/7/16 8:31	62	28/7/16 15:01	63
2/7/16 7:01	61	7/7/16 13:31	62	13/7/16 8:01	64	18/7/16 14:31	63	23/7/16 9:01	62	28/7/16 15:31	63
2/7/16 7:31	61	7/7/16 14:01	63	13/7/16 8:31	64	18/7/16 15:01	63	23/7/16 9:31	63	28/7/16 16:01	63
2/7/16 8:01	62	7/7/16 14:31	63	13/7/16 9:01	63	18/7/16 15:31	63	23/7/16 10:01	63	28/7/16 16:31	63
2/7/16 8:31	64	7/7/16 15:01	63	13/7/16 9:31	64	18/7/16 16:01	63	23/7/16 10:31	63	28/7/16 17:01	63
2/7/16 9:01	56	7/7/16 15:31	63	13/7/16 10:01	64	18/7/16 16:31	63	23/7/16 11:01	63	28/7/16 17:31	63
2/7/16 9:31	64	7/7/16 16:01	63	13/7/16 10:31	64	18/7/16 17:01	64	23/7/16 11:31	62	28/7/16 18:01	63
2/7/16 10:01	64	7/7/16 16:31	64	13/7/16 11:01	63	18/7/16 17:31	63	23/7/16 12:01	62	28/7/16 18:31	64
2/7/16 10:31	64	7/7/16 17:01	64	13/7/16 11:31	64	18/7/16 18:01	63	23/7/16 12:31	62	29/7/16 7:01	59
2/7/16 11:01	64	7/7/16 17:31	64	13/7/16 12:01	63	18/7/16 18:31	63	23/7/16 13:01	63	29/7/16 7:31	62
2/7/16 11:31	64	7/7/16 18:01	64	13/7/16 12:31	64	19/7/16 7:01	61	23/7/16 13:31	64	29/7/16 8:01	63
2/7/16 12:01	64	7/7/16 18:31	48	13/7/16 13:01	63	19/7/16 7:31	62	23/7/16 14:01	62	29/7/16 8:31	63
2/7/16 12:31	63	8/7/16 7:01	61	13/7/16 13:31	64	19/7/16 8:01	64	23/7/16 14:31	62	29/7/16 9:01	62
2/7/16 13:01	63	8/7/16 7:31	63	13/7/16 14:01	63	19/7/16 8:31	37	23/7/16 15:01	63	29/7/16 9:31	62
2/7/16 13:31	63	8/7/16 8:01	64	13/7/16 14:31	63	19/7/16 9:01	42	23/7/16 15:31	62	29/7/16 10:01	62
2/7/16 14:01	63	8/7/16 8:31	64	13/7/16 15:01	63	19/7/16 9:31	53	23/7/16 16:01	62	29/7/16 10:31	62
2/7/16 14:31	63	8/7/16 9:01	64	13/7/16 15:31	64	19/7/16 10:01	64	23/7/16 16:31	61	29/7/16 11:01	61
2/7/16 15:01	64	8/7/16 9:31	64	13/7/16 16:01	64	19/7/16 10:31	64	23/7/16 17:01	62	29/7/16 11:31	62
2/7/16 15:31	55	8/7/16 10:01	64	13/7/16 16:31	64	19/7/16 11:01	63	23/7/16 17:31	62	29/7/16 12:01	62
2/7/16 16:01	64	8/7/16 10:31	63	13/7/16 17:01	64	19/7/16 11:31	63	23/7/16 18:01	63	29/7/16 12:31	61
2/7/16 16:31	64	8/7/16 11:01	63	13/7/16 17:31	64	19/7/16 12:01	63	23/7/16 18:31	63	29/7/16 13:01	61
2/7/16 17:01	63	8/7/16 11:31	63	13/7/16 18:01	64	19/7/16 12:31	63	25/7/16 7:01	61	29/7/16 13:31	62
2/7/16 17:31	63	8/7/16 12:01	63	13/7/16 18:31	64	19/7/16 13:01	63	25/7/16 7:31	62	29/7/16 14:01	62
2/7/16 18:01	64	8/7/16 12:31	63	14/7/16 7:01	63	19/7/16 13:31	63	25/7/16 8:01	63	29/7/16 14:31	62
2/7/16 18:31	63	8/7/16 13:01	63	14/7/16 7:31	63	19/7/16 14:01	63	25/7/16 8:31	64	29/7/16 15:01	63
4/7/16 7:01	61	8/7/16 13:31	63	14/7/16 8:01	63	19/7/16 14:31	63	25/7/16 9:01	63	29/7/16 15:31	63
4/7/16 7:31	63	8/7/16 14:01	63	14/7/16 8:31	64	19/7/16 15:01	63	25/7/16 9:31	63	29/7/16 16:01	63
4/7/16 8:01	64	8/7/16 14:31	63	14/7/16 9:01	64	19/7/16 15:31	63	25/7/16 10:01	63	29/7/16 16:31	63
4/7/16 8:31	51	8/7/16 15:01	63	14/7/16 9:31	63	19/7/16 16:01	63	25/7/16 10:31	63	29/7/16 17:01	64
4/7/16 9:01	52	8/7/16 15:31	63	14/7/16 10:01	64	19/7/16 16:31	64	25/7/16 11:01	62	29/7/16 17:31	64
4/7/16 9:31	52	8/7/16 16:01	63	14/7/16 10:31	38	19/7/16 17:01	63	25/7/16 11:31	62	29/7/16 18:01	63
4/7/16 10:01	51	8/7/16 16:31	64	14/7/16 11:01	64	19/7/16 17:31	63	25/7/16 12:01	61	29/7/16 18:31	63
4/7/16 10:31	50	8/7/16 17:01	64	14/7/16 11:31	64	19/7/16 18:01	63	25/7/16 12:31	61	30/7/16 7:01	60
4/7/16 11:01	49	8/7/16 17:31	64	14/7/16 12:01	52	19/7/16 18:31	64	25/7/16 13:01	62	30/7/16 7:31	61
4/7/16 11:31	64	8/7/16 18:01	64	14/7/16 12:31	64	20/7/16 7:01	61	25/7/16 13:31	63	30/7/16 8:01	60
4/7/16 12:01	64	8/7/16 18:31	63	14/7/16 13:01	64	20/7/16 7:31	62	25/7/16 14:01	63	30/7/16 8:31	62
4/7/16 12:31	64	9/7/16 7:01	60	14/7/16 13:31	64	20/7/16 8:01	63	25/7/16 14:31	64	30/7/16 9:01	61
4/7/16 13:01	64	9/7/16 7:31	61	14/7/16 14:01	64	20/7/16 8:31	64	25/7/16 15:01	63	30/7/16 9:31	61
4/7/16 13:31	64	9/7/16 8:01	61	14/7/16 14:31	64	20/7/16 9:01	64	25/7/16 15:31	62	30/7/16 10:01	62
4/7/16 14:01	49	9/7/16 8:31	63	14/7/16 15:01	64	20/7/16 9:31	64	25/7/16 16:01	63	30/7/16 10:31	61
4/7/16 14:31	64	9/7/16 9:01	62	14/7/16 15:31	64	20/7/16 10:01	64	25/7/16 16:31	62	30/7/16 11:01	62
4/7/16 15:01	64	9/7/16 9:31	63	14/7/16 16:01	64	20/7/16 10:31	64	25/7/16 17:01	63	30/7/16 11:31	62
4/7/16 15:31	64	9/7/16 10:01	63	14/7/16 16:31	64	20/7/16 11:01	63	25/7/16 17:31	63	30/7/16 12:01	63
4/7/16 16:01	64	9/7/16 10:31	47	14/7/16 17:01	64	20/7/16 11:31	63	25/7/16 18:01	63	30/7/16 12:31	63
4/7/16 16:31	64	9/7/16 11:01	64	14/7/16 17:31	52	20/7/16 12:01	63	25/7/16 18:31	63	30/7/16 13:01	63
4/7/16 17:01	64	9/7/16 11:31	64	14/7/16 18:01	64	20/7/16 12:31	63	26/7/16 7:01	61	30/7/16 13:31	62
4/7/16 17:31	64	9/7/16 12:01	64	14/7/16 18:31	64	20/7/16 13:01	63	26/7/16 7:31	57	30/7/16 14:01	63
4/7/16 18:01	64	9/7/16 12:31	63	15/7/16 7:01	63	20/7/16 13:31	64	26/7/16 8:01	64	30/7/16 14:31	63
4/7/16 18:31	64	9/7/16 13:01	64	15/7/16 7:31	63	20/7/16 14:01	64	26/7/16 8:31	54	30/7/16 15:01	63
5/7/16 7:01	61	9/7/16 13:31	63	15/7/16 8:01	64	20/7/16 14:31	63	26/7/16 9:01	63	30/7/16 15:31	63
5/7/16 7:31	63	9/7/16 14:01	63	15/7/16 8:31	64	20/7/16 15:01	64	26/7/16 9:31	63	30/7/16 16:01	64
5/7/16 8:01	64	9/7/16 14:31	63	15/7/16 9:01	51	20/7/16 15:31	64	26/7/16 10:01	63	30/7/16 16:31	63
5/7/16 8:31	64	9/7/16 15:01	63	15/7/16 9:31	64	20/7/16 16:01	58	26/7/16 10:31	63	30/7/16 17:01	63
5/7/16 9:01	64	9/7/16 15:31	63	15/7/16 10:01	64	20/7/16 16:31	64	26/7/16 11:01	63	30/7/16 17:31	63
5/7/16 9:31	64	9/7/16 16:01	64	15/7/16 10:31	64	20/7/16 17:01	64	26/7/16 11:31	63	30/7/16 18:01	63
5/7/16 10:01	64	9/7/16 16:31	64	15/7/16 11:01	64	20/7/16 17:31	64	26/7/16 12:01	63	30/7/16 18:31	63
5/7/16 10:31	64	9/7/16 17:01	63	15/7/16 11:31	63	20/7/16 18:01	64	26/7/16 12:31	63		
5/7/16 11:01	64	9/7/16 17:31	64	15/7/16 12:01	64	20/7/16 18:31	63	26/7/16 13:01	63	Normal Day 19:00-23:00,	
5/7/16 11:31	64	9/7/16 18:01	64	15/7/16 12:31	63	21/7/16 7:01	61	26/7/16 13:31	63	Sunday & Holiday	
5/7/16 12:01	64	9/7/16 18:31	64	15/7/16 13:01	64	21/7/16 7:31	62	26/7/16 14:01	64	07:00-23:00	
5/7/16 12:31	63	11/7/16 7:01	62	15/7/16 13:31	64	21/7/16 8:01	63	26/7/16 14:31	57	1/7/16 7:01	59
5/7/16 13:01	64	11/7/16 7:31	63	15/7/16 14:01	64	21/7/16 8:31	64	26/7/16 15:01	64	1/7/16 7:06	59
5/7/16 13:31	58	11/7/16 8:01	63	15/7/16 14:31	63	21/7/16 9:01	64	26/7/16 15:31	63	1/7/16 7:11	60
5/7/16 14:01	54	11/7/16 8:31	68	15/7/16 15:01	63	21/7/16 9:31	64	26/7/16 16:01	63	1/7/16 7:16	61
5/7/16 14:31	48	11/7/16 9:01	51	15/7/16 15:31	63	21/7/16 10:01	63	26/7/16 16:31	63	1/7/16 7:21	60
5/7/16 15:01	64	11/7/16 9:31	49	15/7/16 16:01	63	21/7/16 10:31	63	26/7/16 17:01	63	1/7/16 7:26	60
5/7/16 15:31	64	11/7/16 10:01	64	15/7/16 16:31	64	21/7/16 11:01	63	26/7/16 17:31	63	1/7/16 7:31	60
5/7/16 16:01	63	11/7/16 10:31	64	15/7/16 17:01	64	21/7/16 11:31	63	26/7/16 18:01	63	1/7/16 7:36	61
5/7/16 16:31	60	11/7/16 11:01	64	15/7/16 17:31	64	21/7/16 12:01	63	26/7/16 18:31	64	1/7/16 7:41	61
5/7/16 17:01	64	11/7/16 11:31	64	15/7/16 18:01	64	21/7/16 12:31	62	27/7/16 7:01	60	1/7/16 7:46	61
5/7/16 17:31	64	11/7/16 12:01	64	15/7/16 18:31	56	21/7/16 13:01	62	27/7/16 7:31	61	1/7/16 7:51	62
5/7/16 18:01	53	11/7/16 12:31	63	16/7/16 7:01	61	21/7/16 13:31	62	27/7/16 8:01	63	1/7/16 7:56	62
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6/7/16 10:01	62	11/7/16 16:31	63	16/7/16 11:01	64	21/7/16 17:31	63	27/7/16 12:01	62	1/7/16 8:36	62
6/7/16 10:31	60	11/7/16 17:01	64	16/7/16 11:31	63	21/7/16 18:01	63	27/7/16 12:31	62	1/7/16 8:41	62
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7/7/16 11:01	63	12/7/16 17:31	64	18/7/16 12:01	63	22/7/16 18:31	64	28/7/16 13:01	62	1/7/16 10:46	62
7/7/16 11:31	63	12/7/16 18:01	64	18/7/16 12:31	63	23/7/16 7:01	60	28/7/16 13:31	62	1/7/16 10:51	63
7/7/16 12:01	63	12/7/16 18:31	64	18/7/16 13:01	63	23/7/16 7:31	61	28/7/16 14:01	63	1/7/16 10:56	62
7/7/16 12:31	63	13/7/16 7:01	61	18/7/16 13:31	63	23/7/16 8:01	61	28/7/16 14:31	63	1/7/16 11:01	63

Continuous Noise Monitoring Data ACL3 (City Hall)

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1/7/16 11:26	63	1/7/16 20:31	64	3/7/16 9:36	62	3/7/16 18:41	64	5/7/16 19:46	61	7/7/16 20:51	62
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1/7/16 17:56	64	3/7/16 7:01	59	3/7/16 16:06	61	4/7/16 21:11	61	6/7/16 22:16	61	9/7/16 19:21	64
1/7/16 18:01	63	3/7/16 7:06	59	3/7/16 16:11	61	4/7/16 21:16	55	6/7/16 22:21	62	9/7/16 19:26	57
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1/7/16 20:06	64	3/7/16 9:11	62	3/7/16 18:16	67	5/7/16 19:21	52	7/7/16 20:26	62	9/7/16 21:31	62

Continuous Noise Monitoring Data ACL3 (City Hall)

9/7/16 21:36	62	10/7/16 14:41	61	11/7/16 19:46	64	13/7/16 20:51	62	15/7/16 21:56	63	17/7/16 11:01	62
9/7/16 21:41	62	10/7/16 14:46	54	11/7/16 19:51	63	13/7/16 20:56	63	15/7/16 22:01	62	17/7/16 11:06	62
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10/7/16 13:36	55	10/7/16 22:41	62	13/7/16 19:46	63	15/7/16 20:51	63	17/7/16 9:56	85	17/7/16 19:01	62
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Continuous Noise Monitoring Data ACL3 (City Hall)

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19/7/16 20:46	62	21/7/16 21:51	61	23/7/16 22:56	60	24/7/16 16:01	63	25/7/16 21:06	62	27/7/16 22:11	59
19/7/16 20:51	62	21/7/16 21:56	60	24/7/16 7:01	56	24/7/16 16:06	64	25/7/16 21:11	62	27/7/16 22:16	59
19/7/16 20:56	62	21/7/16 22:01	61	24/7/16 7:06	56	24/7/16 16:11	63	25/7/16 21:16	61	27/7/16 22:21	59
19/7/16 21:01	62	21/7/16 22:06	60	24/7/16 7:11	57	24/7/16 16:16	64	25/7/16 21:21	64	27/7/16 22:26	60
19/7/16 21:06	62	21/7/16 22:11	59	24/7/16 7:16	58	24/7/16 16:21	57	25/7/16 21:26	63	27/7/16 22:31	60

Continuous Noise Monitoring Data ACL3 (City Hall)

27/7/16 22:36	59	30/7/16 19:41	63	31/7/16 12:46	63	31/7/16 21:51	61	1/7/16 23:46	57	3/7/16 0:51	57
27/7/16 22:41	59	30/7/16 19:46	63	31/7/16 12:51	62	31/7/16 21:56	62	1/7/16 23:51	58	3/7/16 0:56	57
27/7/16 22:46	60	30/7/16 19:51	63	31/7/16 12:56	62	31/7/16 22:01	61	1/7/16 23:56	57	3/7/16 1:01	57
27/7/16 22:51	59	30/7/16 19:56	62	31/7/16 13:01	63	31/7/16 22:06	61	2/7/16 0:01	57	3/7/16 1:06	57
27/7/16 22:56	59	30/7/16 20:01	62	31/7/16 13:06	62	31/7/16 22:11	61	2/7/16 0:06	58	3/7/16 1:11	57
28/7/16 19:01	63	30/7/16 20:06	62	31/7/16 13:11	61	31/7/16 22:16	61	2/7/16 0:11	57	3/7/16 1:16	57
28/7/16 19:06	62	30/7/16 20:11	62	31/7/16 13:16	62	31/7/16 22:21	61	2/7/16 0:16	57	3/7/16 1:21	57
28/7/16 19:11	62	30/7/16 20:16	62	31/7/16 13:21	62	31/7/16 22:26	60	2/7/16 0:21	59	3/7/16 1:26	57
28/7/16 19:16	63	30/7/16 20:21	62	31/7/16 13:26	62	31/7/16 22:31	62	2/7/16 0:26	56	3/7/16 1:31	57
28/7/16 19:21	63	30/7/16 20:26	63	31/7/16 13:31	62	31/7/16 22:36	61	2/7/16 0:31	57	3/7/16 1:36	59
28/7/16 19:26	63	30/7/16 20:31	63	31/7/16 13:36	62	31/7/16 22:41	59	2/7/16 0:36	57	3/7/16 1:41	56
28/7/16 19:31	63	30/7/16 20:36	63	31/7/16 13:41	61	31/7/16 22:46	58	2/7/16 0:41	57	3/7/16 1:46	56
28/7/16 19:36	63	30/7/16 20:41	63	31/7/16 13:46	62	31/7/16 22:51	59	2/7/16 0:46	57	3/7/16 1:51	58
28/7/16 19:41	63	30/7/16 20:46	63	31/7/16 13:51	61	31/7/16 22:56	59	2/7/16 0:51	57	3/7/16 1:56	56
28/7/16 19:46	63	30/7/16 20:51	47	31/7/16 13:56	62			2/7/16 0:56	57	3/7/16 2:01	56
28/7/16 19:51	63	30/7/16 20:56	64	31/7/16 14:01	62	Night time: 23:00-07:00		2/7/16 1:01	57	3/7/16 2:06	56
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28/7/16 20:01	63	30/7/16 21:06	64	31/7/16 14:11	61	1/7/16 0:06	60	2/7/16 1:11	57	3/7/16 2:16	60
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28/7/16 20:16	62	30/7/16 21:21	62	31/7/16 14:26	62	1/7/16 0:21	58	2/7/16 1:26	57	3/7/16 2:31	56
28/7/16 20:21	62	30/7/16 21:26	62	31/7/16 14:31	63	1/7/16 0:26	57	2/7/16 1:31	57	3/7/16 2:36	56
28/7/16 20:26	62	30/7/16 21:31	62	31/7/16 14:36	62	1/7/16 0:31	65	2/7/16 1:36	57	3/7/16 2:41	57
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28/7/16 20:41	62	30/7/16 21:46	62	31/7/16 14:51	62	1/7/16 0:46	44	2/7/16 1:51	56	3/7/16 2:56	56
28/7/16 20:46	62	30/7/16 21:51	62	31/7/16 14:56	62	1/7/16 0:51	49	2/7/16 1:56	57	3/7/16 3:01	56
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28/7/16 20:56	62	30/7/16 22:01	63	31/7/16 15:06	62	1/7/16 1:01	58	2/7/16 2:06	56	3/7/16 3:11	56
28/7/16 21:01	62	30/7/16 22:06	61	31/7/16 15:11	63	1/7/16 1:06	58	2/7/16 2:11	57	3/7/16 3:16	56
28/7/16 21:06	62	30/7/16 22:11	62	31/7/16 15:16	63	1/7/16 1:11	59	2/7/16 2:16	57	3/7/16 3:21	56
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28/7/16 21:36	62	30/7/16 22:41	60	31/7/16 15:46	62	1/7/16 1:41	58	2/7/16 2:46	56	3/7/16 3:51	56
28/7/16 21:41	62	30/7/16 22:46	61	31/7/16 15:51	62	1/7/16 1:46	58	2/7/16 2:51	56	3/7/16 3:56	56
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28/7/16 21:51	61	30/7/16 22:56	60	31/7/16 16:01	62	1/7/16 1:56	58	2/7/16 3:01	56	3/7/16 4:06	58
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28/7/16 22:26	60	31/7/16 7:31	60	31/7/16 16:36	64	1/7/16 2:31	57	2/7/16 3:36	56	3/7/16 4:41	56
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28/7/16 22:56	59	31/7/16 8:01	59	31/7/16 17:06	63	1/7/16 3:01	57	2/7/16 4:06	58	3/7/16 5:11	56
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29/7/16 19:41	60	31/7/16 8:46	61	31/7/16 17:51	55	1/7/16 3:46	57	2/7/16 4:51	58	3/7/16 5:56	60
29/7/16 19:46	63	31/7/16 8:51	60	31/7/16 17:56	56	1/7/16 3:51	57	2/7/16 4:56	57	3/7/16 6:01	58
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29/7/16 19:56	55	31/7/16 9:01	60	31/7/16 18:06	60	1/7/16 4:01	58	2/7/16 5:06	57	3/7/16 6:11	57
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29/7/16 20:06	63	31/7/16 9:11	60	31/7/16 18:16	55	1/7/16 4:11	58	2/7/16 5:16	58	3/7/16 6:21	60
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29/7/16 20:21	63	31/7/16 9:26	60	31/7/16 18:31	59	1/7/16 4:26	57	2/7/16 5:31	58	3/7/16 6:36	58
29/7/16 20:26	63	31/7/16 9:31	60	31/7/16 18:36	60	1/7/16 4:31	57	2/7/16 5:36	58	3/7/16 6:41	58
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29/7/16 20:36	63	31/7/16 9:41	59	31/7/16 18:46	58	1/7/16 4:41	57	2/7/16 5:46	58	3/7/16 6:51	58
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29/7/16 20:46	63	31/7/16 9:51	60	31/7/16 18:56	57	1/7/16 4:51	57	2/7/16 5:56	58	3/7/16 23:01	53
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29/7/16 21:26	62	31/7/16 10:31	61	31/7/16 19:36	54	1/7/16 5:31	58	2/7/16 6:36	58	3/7/16 23:41	58
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29/7/16 21:41	62	31/7/16 10:46	61	31/7/16 19:51	55	1/7/16 5:46	58	2/7/16 6:51	55	3/7/16 23:56	59
29/7/16 21:46	62	31/7/16 10:51	61	31/7/16 19:56	57	1/7/16 5:51	57	2/7/16 6:56	60	4/7/16 0:01	59
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29/7/16 21:56	63	31/7/16 11:01	63	31/7/16 20:06	54	1/7/16 6:01	58	2/7/16 23:06	60	4/7/16 0:11	58
29/7/16 22:01	61	31/7/16 11:06	62	31/7/16 20:11	55	1/7/16 6:06	58	2/7/16 23:11	59	4/7/16 0:16	58
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29/7/16 22:41	63	31/7/16 11:46	60	31/7/16 20:51	63	1/7/16 6:46	60	2/7/16 23:51	60	4/7/16 0:56	57
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30/7/16 19:06	63	31/7/16 12:11	61	31/7/16 21:16	63	1/7/16 23:11	59	3/7/16 0:16	57	4/7/16 1:21	57
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30/7/16 19:31	63	31/7/16 12:36	63	31/7/16 21:41	62	1/7/16 23:36	58	3/7/16 0:41	58	4/7/16 1:46	57
30/7/16 19:36	62	31/7/16 12:41	62	31/7/16 21:46	63	1/7/16 23:41	58	3/7/16 0:46	57	4/7/16 1:51	57

Continuous Noise Monitoring Data ACL3 (City Hall)

4/7/16 1:56	57	5/7/16 3:01	56	6/7/16 4:06	56	7/7/16 5:11	56	8/7/16 6:16	60	9/7/16 23:21	60
4/7/16 2:01	57	5/7/16 3:06	56	6/7/16 4:11	57	7/7/16 5:16	56	8/7/16 6:21	60	9/7/16 23:26	60
4/7/16 2:06	57	5/7/16 3:11	56	6/7/16 4:16	57	7/7/16 5:21	56	8/7/16 6:26	59	9/7/16 23:31	60
4/7/16 2:11	57	5/7/16 3:16	56	6/7/16 4:21	57	7/7/16 5:26	57	8/7/16 6:31	59	9/7/16 23:36	60
4/7/16 2:16	57	5/7/16 3:21	56	6/7/16 4:26	59	7/7/16 5:31	57	8/7/16 6:36	59	9/7/16 23:41	60
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4/7/16 3:01	57	5/7/16 4:06	56	6/7/16 5:11	56	7/7/16 6:16	58	8/7/16 23:21	58	10/7/16 0:26	50
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5/7/16 2:51	56	6/7/16 3:56	56	7/7/16 5:01	56	8/7/16 6:06	59	9/7/16 23:11	49	11/7/16 0:16	58
5/7/16 2:56	56	6/7/16 4:01	56	7/7/16 5:06	56	8/7/16 6:11	59	9/7/16 23:16	60	11/7/16 0:21	58

Continuous Noise Monitoring Data ACL3 (City Hall)

11/7/16 0:26	58	12/7/16 1:31	55	13/7/16 2:36	56	14/7/16 3:41	56	15/7/16 4:46	57	16/7/16 5:51	58
11/7/16 0:31	57	12/7/16 1:36	57	13/7/16 2:41	56	14/7/16 3:46	56	15/7/16 4:51	57	16/7/16 5:56	58
11/7/16 0:36	57	12/7/16 1:41	56	13/7/16 2:46	56	14/7/16 3:51	56	15/7/16 4:56	57	16/7/16 6:01	59
11/7/16 0:41	57	12/7/16 1:46	55	13/7/16 2:51	56	14/7/16 3:56	56	15/7/16 5:01	57	16/7/16 6:06	59
11/7/16 0:46	57	12/7/16 1:51	54	13/7/16 2:56	56	14/7/16 4:01	56	15/7/16 5:06	57	16/7/16 6:11	58
11/7/16 0:51	57	12/7/16 1:56	54	13/7/16 3:01	56	14/7/16 4:06	56	15/7/16 5:11	57	16/7/16 6:16	59
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Continuous Noise Monitoring Data ACL3 (City Hall)

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18/7/16 23:51	58	20/7/16 0:56	55	21/7/16 2:01	58	22/7/16 3:06	54	23/7/16 4:11	55	24/7/16 5:16	55
18/7/16 23:56	58	20/7/16 1:01	55	21/7/16 2:06	54	22/7/16 3:11	54	23/7/16 4:16	55	24/7/16 5:21	54

Continuous Noise Monitoring Data ACL3 (City Hall)

24/7/16 5:26	55	25/7/16 6:31	58	26/7/16 23:36	58	28/7/16 0:41	57	29/7/16 1:46	55	30/7/16 2:51	54
24/7/16 5:31	54	25/7/16 6:36	59	26/7/16 23:41	58	28/7/16 0:46	56	29/7/16 1:51	55	30/7/16 2:56	54
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24/7/16 5:51	58	25/7/16 6:56	49	27/7/16 0:01	57	28/7/16 1:06	57	29/7/16 2:11	54	30/7/16 3:16	54
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25/7/16 0:26	56	26/7/16 1:31	56	27/7/16 2:36	54	28/7/16 3:41	54	29/7/16 4:46	54	30/7/16 5:51	56
25/7/16 0:31	56	26/7/16 1:36	55	27/7/16 2:41	54	28/7/16 3:46	55	29/7/16 4:51	56	30/7/16 5:56	57
25/7/16 0:36	56	26/7/16 1:41	56	27/7/16 2:46	54	28/7/16 3:51	54	29/7/16 4:56	55	30/7/16 6:01	56
25/7/16 0:41	56	26/7/16 1:46	57	27/7/16 2:51	54	28/7/16 3:56	56	29/7/16 5:01	57	30/7/16 6:06	56
25/7/16 0:46	56	26/7/16 1:51	56	27/7/16 2:56	53	28/7/16 4:01	55	29/7/16 5:06	56	30/7/16 6:11	57
25/7/16 0:51	56	26/7/16 1:56	56	27/7/16 3:01	54	28/7/16 4:06	56	29/7/16 5:11	56	30/7/16 6:16	56
25/7/16 0:56	55	26/7/16 2:01	56	27/7/16 3:06	55	28/7/16 4:11	55	29/7/16 5:16	56	30/7/16 6:21	57
25/7/16 1:01	56	26/7/16 2:06	57	27/7/16 3:11	53	28/7/16 4:16	55	29/7/16 5:21	55	30/7/16 6:26	57
25/7/16 1:06	56	26/7/16 2:11	54	27/7/16 3:16	55	28/7/16 4:21	57	29/7/16 5:26	56	30/7/16 6:31	57
25/7/16 1:11	56	26/7/16 2:16	54	27/7/16 3:21	54	28/7/16 4:26	56	29/7/16 5:31	55	30/7/16 6:36	57
25/7/16 1:16	56	26/7/16 2:21	55	27/7/16 3:26	55	28/7/16 4:31	57	29/7/16 5:36	56	30/7/16 6:41	58
25/7/16 1:21	56	26/7/16 2:26	54	27/7/16 3:31	55	28/7/16 4:36	56	29/7/16 5:41	56	30/7/16 6:46	59
25/7/16 1:26	56	26/7/16 2:31	53	27/7/16 3:36	55	28/7/16 4:41	55	29/7/16 5:46	57	30/7/16 6:51	58
25/7/16 1:31	56	26/7/16 2:36	54	27/7/16 3:41	54	28/7/16 4:46	56	29/7/16 5:51	56	30/7/16 6:56	58
25/7/16 1:36	56	26/7/16 2:41	56	27/7/16 3:46	54	28/7/16 4:51	56	29/7/16 5:56	56	30/7/16 23:01	59
25/7/16 1:41	54	26/7/16 2:46	56	27/7/16 3:51	55	28/7/16 4:56	55	29/7/16 6:01	57	30/7/16 23:06	58
25/7/16 1:46	54	26/7/16 2:51	53	27/7/16 3:56	53	28/7/16 5:01	55	29/7/16 6:06	56	30/7/16 23:11	58
25/7/16 1:51	56	26/7/16 2:56	54	27/7/16 4:01	55	28/7/16 5:06	56	29/7/16 6:11	57	30/7/16 23:16	59
25/7/16 1:56	54	26/7/16 3:01	54	27/7/16 4:06	54	28/7/16 5:11	57	29/7/16 6:16	59	30/7/16 23:21	58
25/7/16 2:01	57	26/7/16 3:06	54	27/7/16 4:11	54	28/7/16 5:16	57	29/7/16 6:21	58	30/7/16 23:26	59
25/7/16 2:06	54	26/7/16 3:11	54	27/7/16 4:16	54	28/7/16 5:21	58	29/7/16 6:26	57	30/7/16 23:31	59
25/7/16 2:11	54	26/7/16 3:16	54	27/7/16 4:21	54	28/7/16 5:26	55	29/7/16 6:31	58	30/7/16 23:36	58
25/7/16 2:16	54	26/7/16 3:21	54	27/7/16 4:26	54	28/7/16 5:31	56	29/7/16 6:36	58	30/7/16 23:41	57
25/7/16 2:21	54	26/7/16 3:26	54	27/7/16 4:31	54	28/7/16 5:36	58	29/7/16 6:41	58	30/7/16 23:46	57
25/7/16 2:26	54	26/7/16 3:31	55	27/7/16 4:36	54	28/7/16 5:41	56	29/7/16 6:46	58	30/7/16 23:51	58
25/7/16 2:31	54	26/7/16 3:36	54	27/7/16 4:41	54	28/7/16 5:46	57	29/7/16 6:51	58	30/7/16 23:56	57
25/7/16 2:36	54	26/7/16 3:41	55	27/7/16 4:46	54	28/7/16 5:51	57	29/7/16 6:56	59	31/7/16 0:01	57
25/7/16 2:41	53	26/7/16 3:46	55	27/7/16 4:51	56	28/7/16 5:56	58	29/7/16 23:01	60	31/7/16 0:06	58
25/7/16 2:46	54	26/7/16 3:51	55	27/7/16 4:56	54	28/7/16 6:01	59	29/7/16 23:06	50	31/7/16 0:11	57
25/7/16 2:51	54	26/7/16 3:56	55	27/7/16 5:01	56	28/7/16 6:06	57	29/7/16 23:11	59	31/7/16 0:16	57
25/7/16 2:56	56	26/7/16 4:01	55	27/7/16 5:06	55	28/7/16 6:11	57	29/7/16 23:16	54	31/7/16 0:21	57
25/7/16 3:01	55	26/7/16 4:06	54	27/7/16 5:11	55	28/7/16 6:16	58	29/7/16 23:21	53	31/7/16 0:26	58
25/7/16 3:06	55	26/7/16 4:11	55	27/7/16 5:16	56	28/7/16 6:21	59	29/7/16 23:26	60	31/7/16 0:31	57
25/7/16 3:11	55	26/7/16 4:16	54	27/7/16 5:21	55	28/7/16 6:26	58	29/7/16 23:31	59	31/7/16 0:36	57
25/7/16 3:16	54	26/7/16 4:21	55	27/7/16 5:26	55	28/7/16 6:31	57	29/7/16 23:36	58	31/7/16 0:41	57
25/7/16 3:21	55	26/7/16 4:26	59	27/7/16 5:31	56	28/7/16 6:36	57	29/7/16 23:41	59	31/7/16 0:46	56
25/7/16 3:26	55	26/7/16 4:31	55	27/7/16 5:36	56	28/7/16 6:41	58	29/7/16 23:46	58	31/7/16 0:51	55
25/7/16 3:31	54	26/7/16 4:36	56	27/7/16 5:41	57	28/7/16 6:46	60	29/7/16 23:51	58	31/7/16 0:56	56
25/7/16 3:36	55	26/7/16 4:41	56	27/7/16 5:46	56	28/7/16 6:51	59	29/7/16 23:56	58	31/7/16 1:01	55
25/7/16 3:41	54	26/7/16 4:46	55	27/7/16 5:51	57	28/7/16 6:56	58	30/7/16 0:01	58	31/7/16 1:06	55
25/7/16 3:46	54	26/7/16 4:51	55	27/7/16 5:56	57	28/7/16 23:01	59	30/7/16 0:06	59	31/7/16 1:11	55
25/7/16 3:51	54	26/7/16 4:56	55	27/7/16 6:01	59	28/7/16 23:06	59	30/7/16 0:11	58	31/7/16 1:16	60
25/7/16 3:56	55	26/7/16 5:01	55	27/7/16 6:06	57	28/7/16 23:11	59	30/7/16 0:16	57	31/7/16 1:21	55
25/7/16 4:01	54	26/7/16 5:06	55	27/7/16 6:11	58	28/7/16 23:16	59	30/7/16 0:21	58	31/7/16 1:26	56
25/7/16 4:06	54	26/7/16 5:11	55	27/7/16 6:16	59	28/7/16 23:21	59	30/7/16 0:26	57	31/7/16 1:31	55
25/7/16 4:11	55	26/7/16 5:16	56	27/7/16 6:21	58	28/7/16 23:26	58	30/7/16 0:31	57	31/7/16 1:36	55
25/7/16 4:16	54	26/7/16 5:21	55	27/7/16 6:26	58	28/7/16 23:31	58	30/7/16 0:36	57	31/7/16 1:41	55
25/7/16 4:21	54	26/7/16 5:26	56	27/7/16 6:31	58	28/7/16 23:36	57	30/7/16 0:41	57	31/7/16 1:46	54
25/7/16 4:26	55	26/7/16 5:31	58	27/7/16 6:36	58	28/7/16 23:41	58	30/7/16 0:46	56	31/7/16 1:51	54
25/7/16 4:31	54	26/7/16 5:36	56	27/7/16 6:41	58	28/7/16 23:46	57	30/7/16 0:51	56	31/7/16 1:56	55
25/7/16 4:36	54	26/7/16 5:41	57	27/7/16 6:46	59	28/7/16 23:51	58	30/7/16 0:56	58	31/7/16 2:01	56
25/7/16 4:41	54	26/7/16 5:46	57	27/7/16 6:51	59	28/7/16 23:56	57	30/7/16 1:01	55	31/7/16 2:06	56
25/7/16 4:46	55	26/7/16 5:51	58	27/7/16 6:56	60	29/7/16 0:01	58	30/7/16 1:06	56	31/7/16 2:11	54
25/7/16 4:51	56	26/7/16 5:56	58	27/7/16 23:01	60	29/7/16 0:06	59	30/7/16 1:11	57	31/7/16 2:16	56
25/7/16 4:56	54	26/7/16 6:01	57	27/7/16 23:06	59	29/7/16 0:11	58	30/7/16 1:16	59	31/7/16 2:21	58
25/7/16 5:01	55	26/7/16 6:06	57	27/7/16 23:11	59	29/7/16 0:16	58	30/7/16 1:21	56	31/7/16 2:26	57
25/7/16 5:06	55	26/7/16 6:11	58	27/7/16 23:16	59	29/7/16 0:21	57	30/7/16 1:26	58	31/7/16 2:31	57
25/7/16 5:11	54	26/7/16 6:16	58	27/7/16 23:21	56	29/7/16 0:26	57	30/7/16 1:31	57	31/7/16 2:36	55
25/7/16 5:16	56	26/7/16 6:21	58	27/7/16 23:26	59	29/7/16 0:31	58	30/7/16 1:36	53	31/7/16 2:41	54
25/7/16 5:21	55	26/7/16 6:26	57	27/7/16 23:31	60	29/7/16 0:36	57	30/7/16 1:41	56	31/7/16 2:46	55
25/7/16 5:26	56	26/7/16 6:31	58	27/7/16 23:36	59	29/7/16 0:41	56	30/7/16 1:46	56	31/7/16 2:51	54
25/7/16 5:31	56	26/7/16 6:36	58	27/7/16 23:41	59	29/7/16 0:46	58	30/7/16 1:51	59	31/7/16 2:56	55
25/7/16 5:36	57	26/7/16 6:41	59	27/7/16 23:46	58	29/7/16 0:51	57	30/7/16 1:56	56	31/7/16 3:01	55
25/7/16 5:41	56	26/7/16 6:46	60	27/7/16 23:51	57	29/7/16 0:56	58	30/7/16 2:01	55	31/7/16 3:06	53
25/7/16 5:46	56	26/7/16 6:51	60	27/7/16 23:56	57	29/7/16 1:01	58	30/7/16 2:06	55	31/7/16 3:11	55
25/7/16 5:51	56	26/7/16 6:56	60	28/7/16 0:01	57	29/7/16 1:06	56	30/7/16 2:11	55	31/7/16 3:16	54
25/7/16 5:56	57	26/7/16 23:01	59	28/7/16 0:06	57	29/7/16 1:11	56	30/7/16 2:16	54	31/7/16 3:21	54
25/7/16 6:01	57	26/7/16 23:06	59	28/7/16 0:11	58	29/7/16 1:16	56	30/7/16 2:21	55	31/7/16 3:26	53
25/7/16 6:06	57	26/7/16 23:11	59	28/7/16 0:16	57	29/7/16 1:21	55	30/7/16 2:26	56	31/7/16 3:31	53
25/7/16 6:11	58	26/7/16 23:16	59	28/7/16 0:21	57	29/7/16 1:26	55	30/7/16 2:31	55	31/7/16 3:36	54
25/7/16 6:16	58	26/7/16 23:21	59	28/7/16 0:26	56	29/7/16 1:31	56	30/7/16 2:36	55	31/7/16 3:41	53
25/7/16 6:21	58	26/7/16 23:26	59	28/7/16 0:31	56	29/7/16 1:36	55	30/7/16 2:41	55	31/7/16 3:46	54
25/7/16 6:26	58	26/7/16 23:31	59	28/7/16 0:36	57	29/7/16 1:41	56	30/7/16 2:46	56	31/7/16 3:51	54

Continuous Noise Monitoring Data ACL3 (City Hall)

31/7/16 3:56	54
31/7/16 4:01	55
31/7/16 4:06	54
31/7/16 4:11	55
31/7/16 4:16	54
31/7/16 4:21	53
31/7/16 4:26	53
31/7/16 4:31	54
31/7/16 4:36	55
31/7/16 4:41	54
31/7/16 4:46	53
31/7/16 4:51	56
31/7/16 4:56	59
31/7/16 5:01	55
31/7/16 5:06	56
31/7/16 5:11	54
31/7/16 5:16	54
31/7/16 5:21	54
31/7/16 5:26	54
31/7/16 5:31	56
31/7/16 5:36	55
31/7/16 5:41	55
31/7/16 5:46	55
31/7/16 5:51	55
31/7/16 5:56	56
31/7/16 6:01	57
31/7/16 6:06	55
31/7/16 6:11	55
31/7/16 6:16	56
31/7/16 6:21	56
31/7/16 6:26	56
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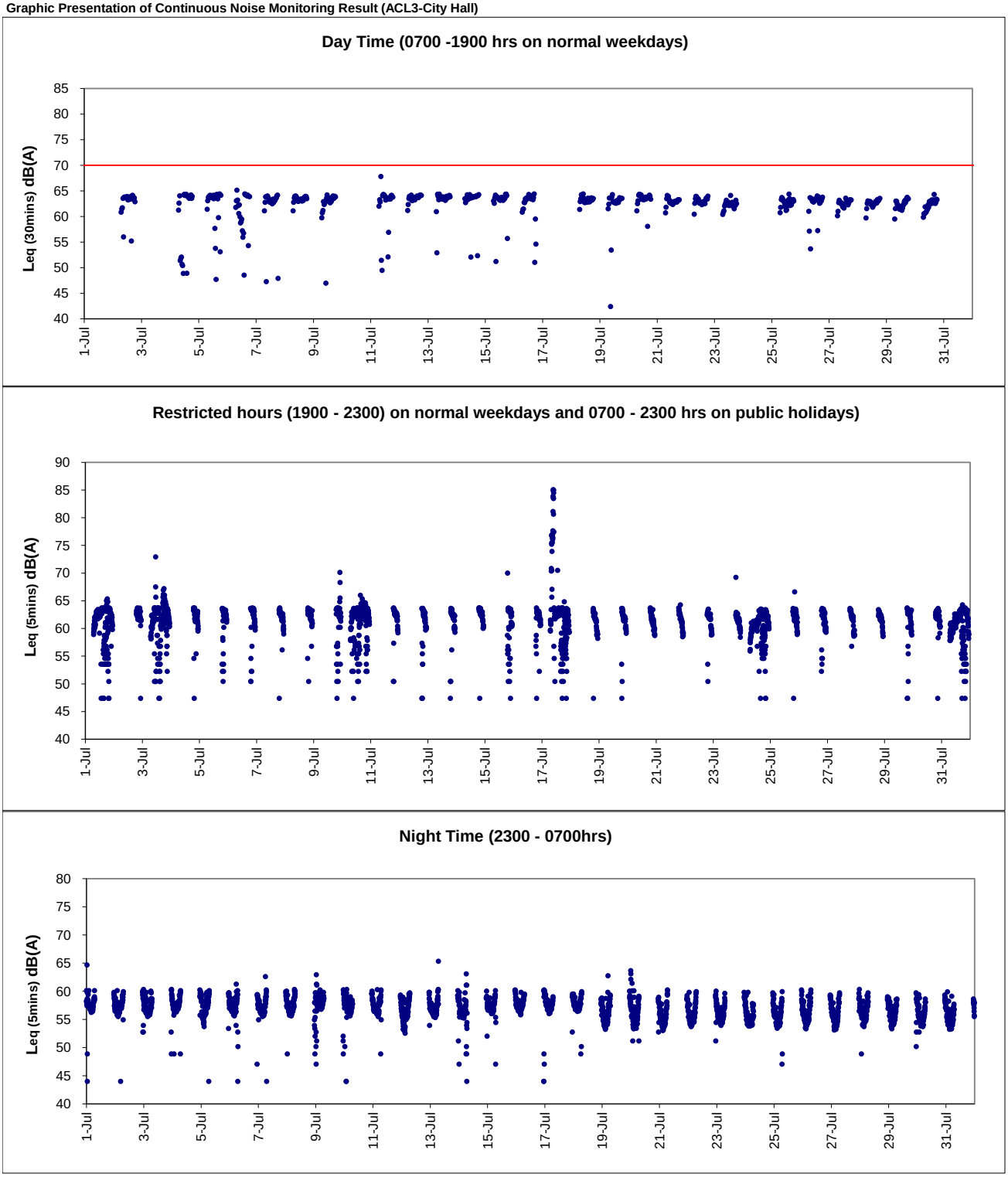
31/7/16 6:36	57
31/7/16 6:41	56
31/7/16 6:46	58
31/7/16 6:51	57
31/7/16 6:56	57
31/7/16 23:01	59
31/7/16 23:06	58
31/7/16 23:11	58
31/7/16 23:16	58
31/7/16 23:21	58
31/7/16 23:26	58
31/7/16 23:31	58
31/7/16 23:36	56
31/7/16 23:41	57
31/7/16 23:46	56
31/7/16 23:51	56
31/7/16 23:56	58

Graphic Presentation of Continuous Noise Monitoring Result (ACL3-City Hall)



Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations

Location: ACL1 - City Hall

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
5-Jul-16	8:00	Cloudy	016233	2.8319	2.8798	486.25	510.25	24.00	1.13	1.14	1.14	1635	29.3
12-Jul-16	15:40	Cloudy	015736	2.8135	2.8799	516.25	540.25	24.00	1.13	1.13	1.13	1631	40.7
16-Jul-16	8:00	Fine	016389	2.8500	2.9186	540.25	564.25	24.00	1.05	1.05	1.05	1510	45.4
22-Jul-16	8:00	Fine	016378	2.8313	2.8958	567.25	591.25	24.00	1.05	1.05	1.05	1514	42.6
28-Jul-16	8:00	Fine	016660	2.8761	2.9222	594.25	618.25	24.00	1.05	1.05	1.05	1514	30.5

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 11 July 2016 to 12 July 2016.

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
6-Jul-16	8:15	Rainy	015747	2.8312	2.8340	510.25	511.25	1.00	1.14	1.14	1.14	68	41.0
6-Jul-16	9:17	Rainy	015744	2.8203	2.8222	511.25	512.25	1.00	1.14	1.14	1.14	68	27.8
6-Jul-16	10:19	Rainy	015741	2.8090	2.8104	512.25	513.25	1.00	1.14	1.14	1.14	68	20.5
12-Jul-16	8:40	Cloudy	015738	2.8131	2.8209	513.25	514.25	1.00	1.13	1.13	1.13	68	114.7
12-Jul-16	13:00	Cloudy	016309	2.8348	2.8366	514.25	515.25	1.00	1.13	1.13	1.13	68	26.5
12-Jul-16	14:15	Cloudy	015331	2.8449	2.8481	515.25	516.25	1.00	1.13	1.13	1.13	68	47.1
18-Jul-16	8:03	Fine	016369	2.8452	2.8484	564.25	565.25	1.00	1.05	1.05	1.05	63	50.8
18-Jul-16	9:10	Fine	015372	2.8623	2.8646	565.25	566.25	1.00	1.05	1.05	1.05	63	36.5
18-Jul-16	10:14	Fine	016375	2.8398	2.8416	566.25	567.25	1.00	1.05	1.05	1.05	63	28.6
23-Jul-16	8:15	Fine	016381	2.8284	2.8319	591.25	592.25	1.00	1.05	1.05	1.05	63	55.5
23-Jul-16	9:17	Fine	016666	2.9116	2.9162	592.25	593.25	1.00	1.05	1.05	1.05	63	73.0
23-Jul-16	10:19	Fine	016663	2.8785	2.8828	593.25	594.25	1.00	1.05	1.05	1.05	63	68.2
29-Jul-16	8:20	Fine	016447	2.8846	2.8883	618.25	619.25	1.00	1.05	1.05	1.05	63	58.7
29-Jul-16	9:30	Fine	016448	2.8684	2.8710	619.25	620.25	1.00	1.05	1.05	1.05	63	41.2
29-Jul-16	10:35	Fine	016671	2.9176	2.9198	620.25	621.25	1.00	1.05	1.05	1.05	63	34.9

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

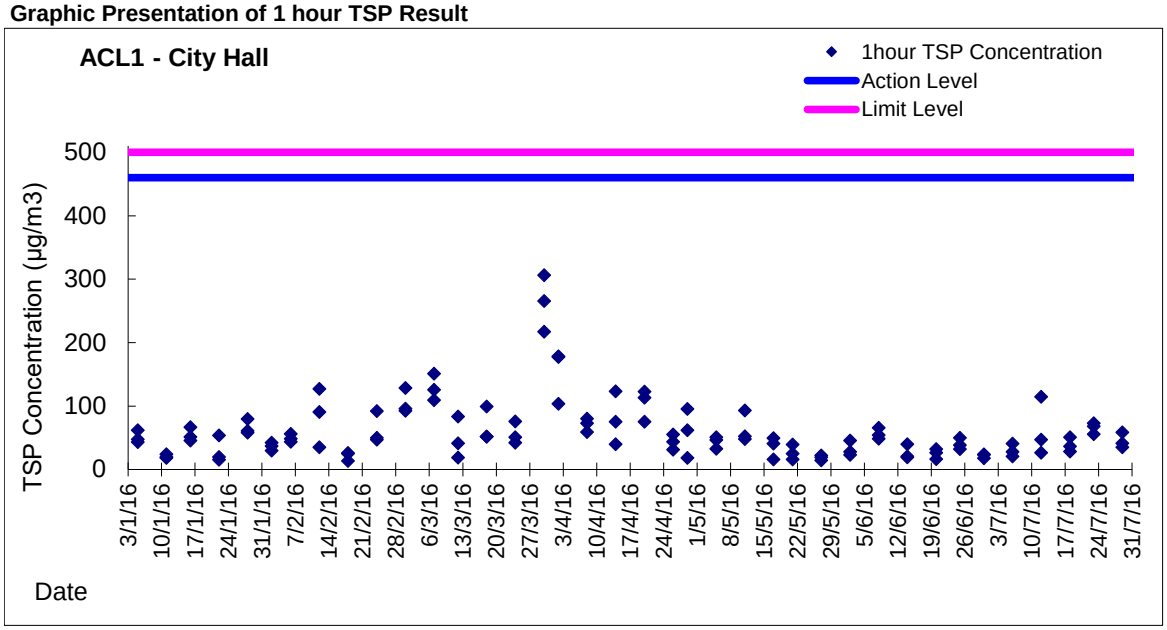
Report on 24-hour TSP monitoring
Action Level (μ g/m3) - 187.3
Limit Level (μ g/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
5-Jul-16	8:00	Cloudy	015759	2.8172	2.8867	5670.24	5694.24	24.00	1.12	1.13	1.13	1622	42.9
11-Jul-16	8:00	Cloudy	016433	2.9003	2.9682	5697.24	5721.24	24.00	1.07	1.07	1.07	1539	44.1
16-Jul-16	8:00	Fine	016396	2.8326	2.8980	5724.24	5748.24	24.00	1.07	1.07	1.07	1544	42.3
22-Jul-16	8:00	Fine	015590	2.8321	2.8806	5751.24	5775.24	24.00	1.02	1.02	1.02	1471	33.0
28-Jul-16	8:00	Fine	016650	2.8952	2.9526	5778.24	5802.24	24.00	1.07	1.07	1.07	1547	37.1

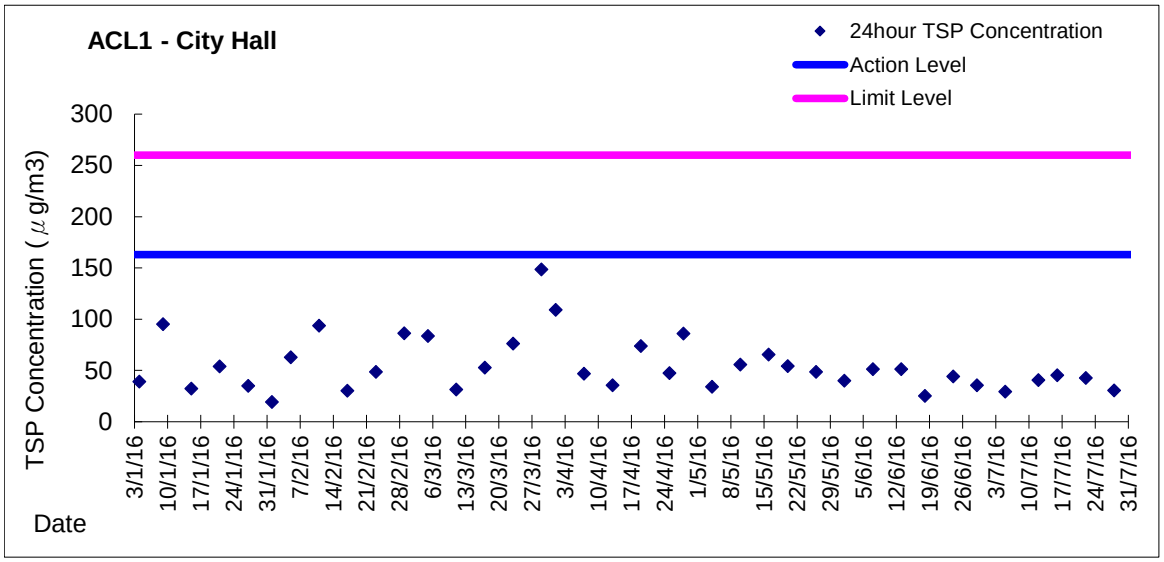
Report on 1-hour TSP monitoring
Action Level (μ g/m3) - 300.1
Limit Level (μ g/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
6-Jul-16	8:47	Rainy	015755	2.8108	2.8133	5694.24	5695.24	1.00	1.13	1.13	1.13	68	36.9
6-Jul-16	10:26	Rainy	015695	2.8258	2.8269	5695.24	5696.24	1.00	1.13	1.13	1.13	68	16.3
6-Jul-16	13:00	Rainy	015691	2.8253	2.8264	5696.24	5697.24	1.00	1.13	1.13	1.13	68	16.3
12-Jul-16	8:30	Cloudy	016407	2.8296	2.8314	5721.24	5722.24	1.00	1.07	1.07	1.07	64	28.0
12-Jul-16	10:04	Cloudy	016417	2.9257	2.9284	5722.24	5723.24	1.00	1.07	1.07	1.07	64	42.1
12-Jul-16	13:00	Cloudy	016421	2.9271	2.9302	5723.24	5724.24	1.00	1.10	1.10	1.10	66	47.1
18-Jul-16	8:36	Fine	016397	2.8342	2.8370	5748.24	5749.24	1.00	1.05	1.05	1.05	63	44.6
18-Jul-16	10:04	Fine	016363	2.8324	2.8358	5749.24	5750.24	1.00	1.02	1.02	1.02	61	55.5
18-Jul-16	13:00	Fine	016360	2.8192	2.8238	5750.24	5751.24	1.00	1.07	1.07	1.07	64	71.4
23-Jul-16	8:20	Fine	016481	2.9058	2.9101	5775.24	5776.24	1.00	1.07	1.07	1.07	64	66.7
23-Jul-16	9:48	Fine	016482	2.9227	2.9272	5776.24	5777.24	1.00	1.07	1.07	1.07	64	69.8
23-Jul-16	10:53	Fine	016654	2.8951	2.9016	5777.24	5778.24	1.00	1.07	1.07	1.07	64	100.8
29-Jul-16	8:52	Fine	016646	2.8973	2.9015	5802.24	5803.24	1.00	1.07	1.07	1.07	64	65.2
29-Jul-16	13:00	Fine	016625	2.9138	2.9215	5803.24	5804.24	1.00	1.07	1.07	1.07	64	119.5
29-Jul-16	14:23	Fine	016624	2.9210	2.9327	5804.24	5805.24	1.00	1.07	1.07	1.07	64	181.5

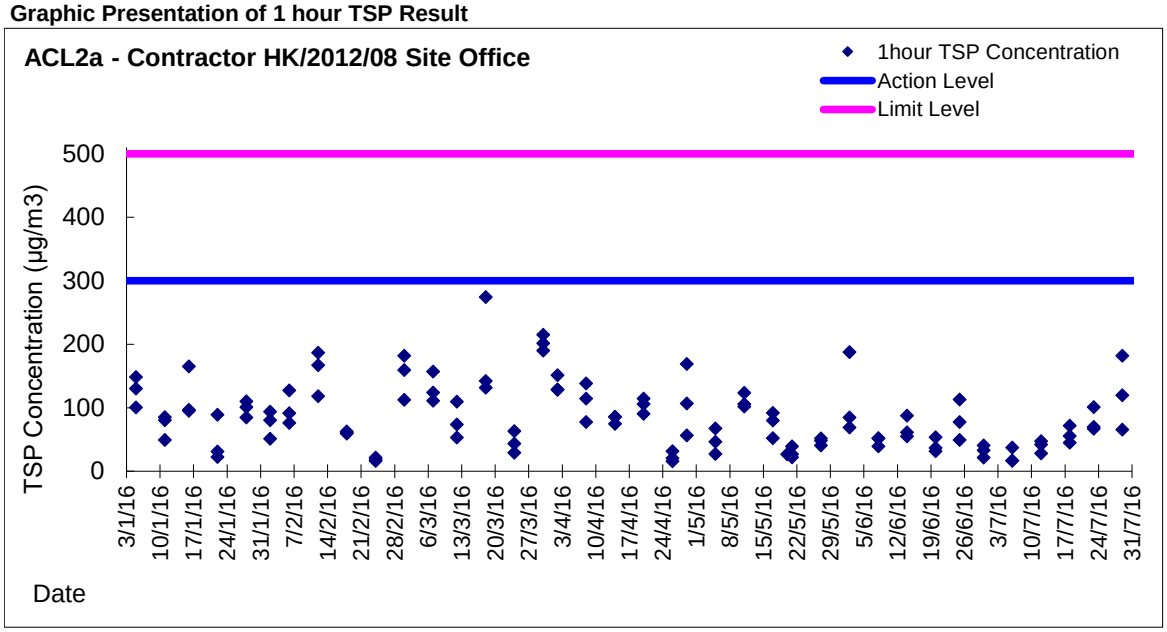
Graphic Presentation of 1 hour TSP Result



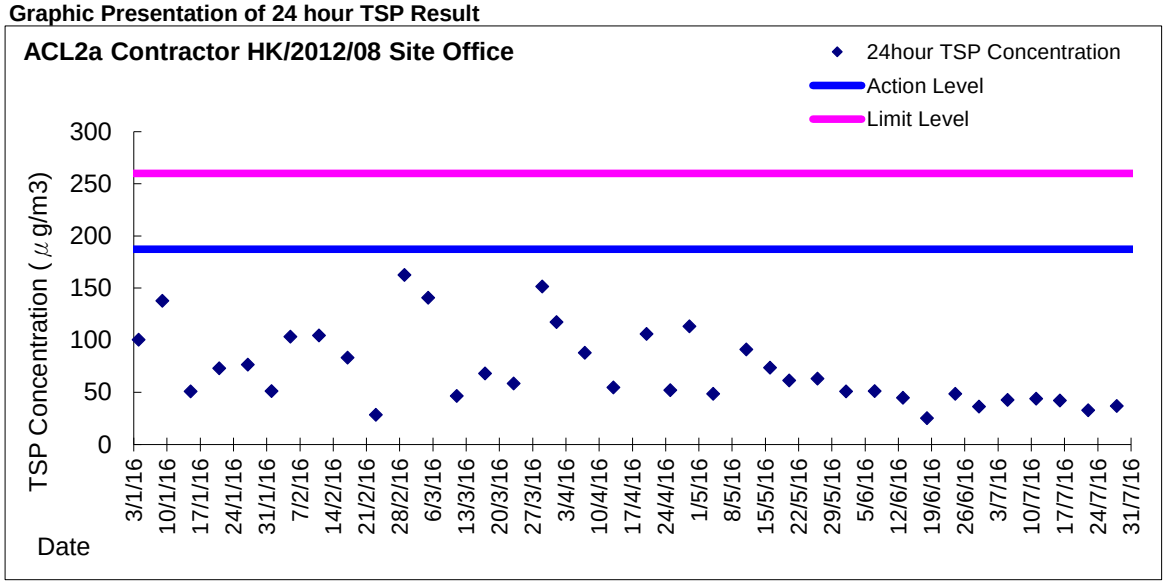
Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 1 hour TSP Result



Graphic Presentation of 24 hour TSP Result



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	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
2/7/16	17:00	Cloudy	Middle	3.5	27.90	27.90	27.90	8.65	8.65	8.67	24.57	24.57	24.57	62.1	61.1	60.8	4.25	4.18	**4.16**	12.00	12.00	11.88	10	10.00
	17:02		Middle	3.5	27.90	27.90		8.68	8.68		24.57	24.57		60.3	59.7		4.12	4.09		11.58	11.92		10	
4/7/16	19:40	Cloudy	Middle	3.0	27.90	27.90	27.93	8.45	8.45	8.46	25.43	25.43	25.43	76.1	76.2	75.7	5.17	5.17	5.14	6.22	6.17	6.16	9	9.50
	19:41		Middle	3.0	28.00	27.90		8.46	8.46		25.43	25.43		75.3	75.0		5.12	5.10		6.15	6.10		10	
6/7/16	19:28	Cloudy	Middle	3.0	28.00	28.00	28.00	8.36	8.36	8.38	25.13	25.13	25.13	71.7	71.8	71.6	4.88	4.89	4.87	6.52	6.81	6.53	5	4.50
	19:29		Middle	3.0	28.00	28.00		8.39	8.39		25.13	25.13		71.6	71.1		4.87	4.83		6.57	6.20		4	
8/7/16	22:42	Fine	Middle	3.0	30.00	30.00	30.00	8.49	8.49	8.50	26.87	26.87	26.87	75.3	75.0	75.1	4.92	4.90	4.90	3.76	3.98	3.97	8	8.00
	22:43		Middle	3.0	30.00	30.00		8.51	8.51		26.87	26.87		74.4	75.7		4.85	4.94		4.12	4.00		8	
11/7/16	22:20	Cloudy	Middle	3.0	27.40	27.40	27.40	8.43	8.43	8.45	28.00	28.00	28.00	76.6	76.8	76.5	5.18	5.19	5.17	2.82	2.74	2.78	10	10.00
	22:21		Middle	3.0	27.40	27.40		8.46	8.46		28.00	28.00		76.4	76.0		5.17	5.14		2.71	2.85		10	
14/7/16	4:17	Cloudy	Middle	3.5	26.50	26.50	26.60	8.44	8.44	8.45	28.02	28.01	28.01	70.9	71.6	71.6	4.86	4.91	4.91	2.74	2.59	2.54	9	9.00
	4:18		Middle	3.5	26.70	26.70		8.46	8.46		28.01	28.01		72.1	71.6		4.94	4.91		2.40	2.44		9	
16/7/16	17:04	Fine	Middle	3.5	27.80	27.80	27.85	8.41	8.41	8.42	26.76	26.76	26.78	82.1	81.7	81.8	5.51	5.52	5.51	4.77	4.78	4.76	8	8.00
	17:06		Middle	3.5	27.90	27.90		8.42	8.42		26.79	26.79		83.3	80.0		5.62	5.40		4.72	4.78		8	
18/7/16	17;19	Fine	Middle	3.5	27.40	27.40	27.45	8.41	8.41	8.43	27.14	27.14	27.14	87.2	86.5	86.8	5.92	5.87	5.89	4.90	4.93	4.97	6	7.00
	17:21		Middle	3.5	27.50	27.50		8.44	8.44		27.13	27.13		87.2	86.3		5.92	5.85		5.02	5.02		8	
20/7/16	19:52	Cloudy	Middle	3.0	26.80	26.80	26.90	7.98	7.97	8.01	28.72	28.72	28.73	81.2	81.1	81.0	5.51	5.51	5.50	4.41	4.29	4.22	9	8.00
	19:53		Middle	3.0	27.00	27.00		8.04	8.04		28.73	28.73		80.9	80.8		5.50	5.48		4.06	4.11		7	
22/7/16	21:36	Fine	Middle	3.5	28.10	28.10	28.00	7.83	7.83	7.85	30.68	30.68	30.68	72.0	72.6	72.6	4.74	4.78	4.78	4.95	5.08	4.78	7	6.50
	21:37		Middle	3.5	27.90	27.90		7.86	7.86		30.68	30.68		72.8	72.8		4.79	4.79		4.67	4.43		6	
25/7/16	9:24	Fine	Middle	3.5	26.10	26.10	25.95	8.17	8.17	8.18	31.40	31.40	31.39	73.8	72.3	71.1	5.04	4.93	4.86	4.40	4.34	4.37	7	7.00
	9:26		Middle	3.5	25.80	25.80		8.19	8.19		31.38	31.38		70.0	68.4		4.78	4.67		4.30	4.43		7	
27/7/16	10:50	Fine	Middle	3.5	26.40	26.40	26.55	8.23	8.23	8.24	31.53	31.53	31.53	80.6	81.3	80.7	5.42	5.47	5.43	7.36	7.53	7.63	12	**13.00**
	10:52		Middle	3.5	26.70	26.70		8.24	8.24		31.52	31.52		80.0	80.9		5.38	5.43		7.70	7.91		14	
29/7/16	15:14	Fine	Middle	3.5	27.80	27.80	27.90	8.32	8.32	8.33	31.13	31.13	31.06	73.0	74.9	73.8	4.80	4.91	4.85	5.13	4.90	4.99	7	6.50
	15:16		Middle	3.5	28.00	28.00		8.33	8.33		30.99	30.99		74.6	72.5		4.91	4.77		5.00	4.92		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-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
2/7/16	16:56	Cloudy	Middle	3.5	28.10	28.10	28.10	8.62	8.62	8.64	23.32	23.32	23.32	54.7	56.2	56.4	3.76	3.86	3.87	9.14	9.15	9.15	7	8.00
	16:58		Middle	3.5	28.10	28.10		8.65	8.65		23.32	23.32		57.4	57.1		3.93	3.91		9.15	9.14		9	
4/7/16	19:45	Cloudy	Middle	2.5	27.90	27.90	27.95	8.53	8.53	8.53	24.17	24.17	24.17	65.1	65.3	65.6	4.46	4.48	4.50	6.43	6.52	6.50	9	8.50
	19:46		Middle	2.5	28.00	28.00		8.52	8.52		24.17	24.17		66.1	65.9		4.53	4.51		6.60	6.46		8	
6/7/16	19:35	Cloudy	Middle	2.5	28.00	28.00	28.00	8.48	8.48	8.47	22.03	22.03	22.03	68.0	68.6	67.6	4.71	4.75	4.68	8.02	7.97	7.96	6	6.50
	19:36		Middle	2.5	28.00	28.00		8.45	8.45		22.03	22.03		67.5	66.3		4.67	4.58		7.99	7.85		7	
8/7/16	22:50	Fine	Middle	2.5	30.90	30.90	30.90	8.52	8.52	8.51	23.05	23.05	23.06	40.7	42.0	42.1	2.68	2.76	2.77	4.59	4.86	4.72	10	9.50
	22:51		Middle	2.5	30.90	30.90		8.50	8.50		23.06	23.06		42.9	42.8		2.82	2.82		4.81	4.60		9	
11/7/16	22:26	Cloudy	Middle	2.5	27.40	27.40	27.45	8.54	8.54	8.49	24.26	24.26	24.26	54.9	55.1	54.6	3.79	3.80	3.77	5.64	5.95	5.91	10	9.50
	22:27		Middle	2.5	27.50	27.50		8.43	8.43		24.25	24.25		54.7	53.7		3.77	3.70		6.06	6.00		9	
14/7/16	4:22	Cloudy	Middle	3.0	26.80	26.80	26.85	8.54	8.54	8.52	22.60	22.60	22.59	67.6	67.8	68.0	4.75	4.76	4.78	3.36	3.23	3.19	6	5.50
	4:23		Middle	3.0	26.90	26.90		8.50	8.50		22.59	22.58		68.3	68.4		4.81	4.81		3.04	3.12		5	
16/7/16	17:00	Fine	Middle	3.5	28.90	28.90	28.85	8.41	8.41	8.42	25.52	25.52	25.50	82.6	79.7	80.5	5.55	5.36	5.41	5.51	5.67	5.57	6	6.00
	17:02		Middle	3.5	28.80	28.80		8.42	8.42		25.47	25.47		80.0	79.6		5.37	5.34		5.59	5.52		6	
18/7/16	17:15	Fine	Middle	3.5	28.10	28.10	28.15	8.39	8.39	8.40	25.18	25.18	25.16	74.7	77.6	76.7	5.07	5.27	5.20	8.07	7.92	7.95	9	8.50
	17:17		Middle	3.5	28.20	28.20		8.40	8.40		25.14	25.14		78.0	76.3		5.29	5.18		7.91	7.91		8	
20/7/16	20:00	Cloudy	Middle	2.5	27.00	27.00	27.05	7.95	7.95	7.95	26.60	26.60	26.60	73.9	74.9	73.7	5.07	5.13	5.06	5.70	5.43	5.41	7	7.00
	20:01		Middle	2.5	27.10	27.10		7.96	7.95		26.60	26.60		73.6	72.3		5.04	4.99		5.26	5.23		7	
22/7/16	21:41	Fine	Middle	3.0	27.60	27.60	27.60	7.93	7.93	7.91	23.83	23.83	23.83	22.1	23.2	22.0	1.59	1.61	1.53	7.95	7.82	7.92	6	7.00
	21:42		Middle	3.0	27.60	27.60		7.89	7.89		23.83	23.83		21.0	21.6		1.43	1.47		7.90	7.99		8	
25/7/16	9:20	Fine	Middle	3.5	26.30	26.30	26.30	8.20	8.20	8.19	29.54	29.54	29.52	62.1	62.1	61.5	4.25	4.24	4.20	6.65	6.81	6.72	8	7.50
	9:22		Middle	3.5	26.30	26.30		8.18	8.18		29.50	29.50		61.6	60.1		4.21	4.11		6.72	6.71		7	
27/7/16	10:45	Fine	Middle	3.5	27.10	27.10	27.30	8.19	8.19	8.20	30.72	30.72	30.71	72.2	74.1	73.3	4.82	4.96	4.89	6.64	6.92	6.82	11	11.50
	10:47		Middle	3.5	27.50	27.50		8.21	8.21		30.70	30.70		74.2	72.6		4.95	4.84		6.92	6.81		12	
29/7/16	15:10	Fine	Middle	3.5	28.30	28.30	28.65	8.24	8.24	8.26	30.89	30.89	30.80	79.6	79.6	77.9	5.20	5.20	5.09	5.14	5.23	5.16	6	5.50
	15:12		Middle	3.5	29.00	29.00		8.28	8.28		30.70	30.70		77.4	75.1		5.04	4.90		5.16	5.09		5	

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

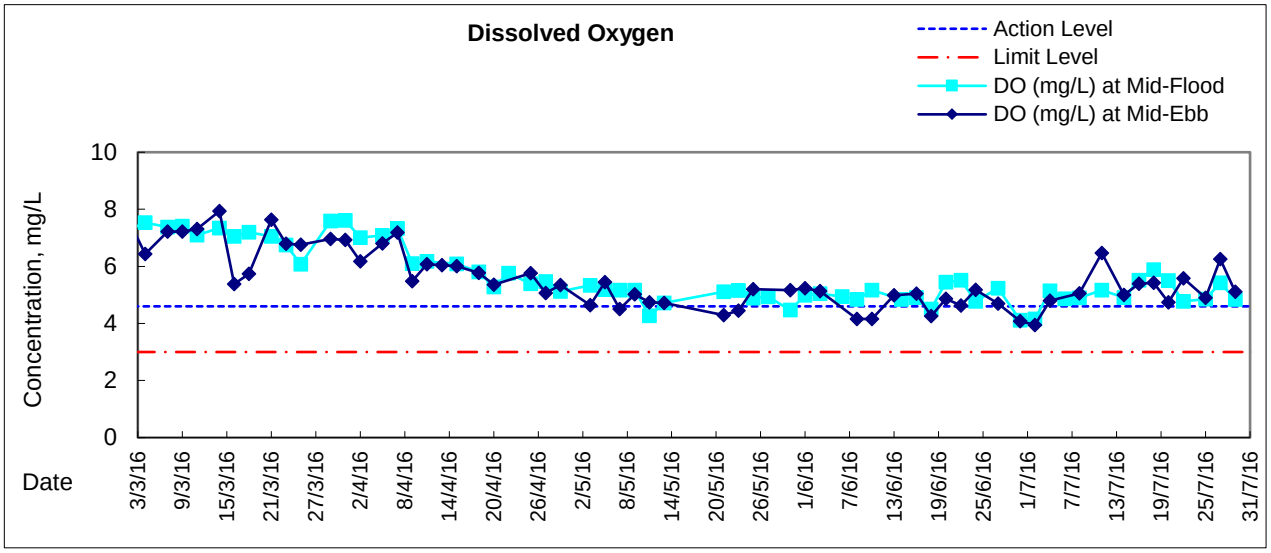
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
2/7/16	10:33	Cloudy	Middle	3.5	28.90	28.90	28.80	8.64	8.64	8.66	23.71	23.71	23.71	59.1	58.1	58.3	4.01	3.94	**3.95**	6.96	6.97	7.03	5	5.00
	10:35		Middle	3.5	28.70	28.70		8.67	8.67		23.71	23.71		57.6	58.2		3.90	3.95		7.05	7.15		5	
4/7/16	10:35	Fine	Middle	4.0	28.00	28.00	28.05	8.45	8.45	8.47	25.14	25.14	25.14	71.0	70.4	70.6	4.82	4.78	4.79	8.83	8.83	8.83	5	4.50
	10:37		Middle	4.0	28.10	28.10		8.49	8.49		25.14	25.14		70.7	70.2		4.80	4.77		8.81	8.83		4	
6/7/16	-	Amber Rainstorm Warning Signal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
8/7/16	14:44	Fine	Middle	3.5	28.80	28.80	28.85	8.24	8.24	8.25	26.46	26.46	26.46	78.5	76.5	75.9	5.23	5.10	5.06	2.66	2.79	2.61	6	6.00
	14:46		Middle	3.5	28.90	28.90		8.26	8.26		26.45	26.45		74.7	74.0		4.98	4.93		2.50	2.48		6	
11/7/16	15:50	Fine	Middle	4.0	27.60	27.60	27.70	8.35	8.35	8.35	27.94	27.94	27.94	95.7	96.8	96.2	6.44	6.51	6.47	2.52	2.54	2.48	8	7.50
	15:52		Middle	4.0	27.80	27.80		8.35	8.35		27.93	27.93		96.7	95.7		6.50	6.44		2.55	2.32		7	
14/7/16	8:43	Cloudy	Middle	3.5	26.80	26.80	26.75	8.15	8.15	8.16	27.70	27.07	27.23	73.5	73.0	72.1	5.06	5.20	5.00	2.55	2.54	2.62	10	10.00
	8:45		Middle	3.5	26.70	26.70		8.17	8.17		27.08	27.08		71.7	70.0		4.94	4.81		2.68	2.72		10	
16/7/16	10:38	Fine	Middle	3.5	27.80	27.80	27.90	8.29	8.29	8.34	25.44	25.44	25.41	81.6	79.1	79.3	5.55	5.38	5.40	2.85	2.99	2.95	6	6.00
	10:40		Middle	3.5	28.00	28.00		8.38	8.38		25.38	25.38		79.1	77.3		5.39	5.26		3.00	2.97		6	
18/7/16	11:49	Fine	Middle	3.5	28.80	28.80	28.80	8.35	8.35	8.39	26.13	26.13	26.12	82.4	81.6	81.2	5.50	5.45	5.42	4.40	4.43	4.40	6	6.00
	11:51		Middle	3.5	28.80	28.80		8.42	8.42		26.11	26.11		80.6	80.2		5.39	5.35		4.33	4.42		6	
20/7/16	10:23	Fine	Middle	3.5	26.80	26.80	26.85	8.30	8.30	8.31	29.00	29.00	29.02	71.7	69.3	69.9	4.86	4.70	4.74	3.69	3.43	3.47	4	4.50
	10:25		Middle	3.5	26.90	26.90		8.32	8.32		29.03	29.03		69.4	69.3		4.71	4.70		3.39	3.37		5	
22/7/16	11:30	Fine	Middle	3.5	26.20	26.20	26.30	8.28	8.28	8.29	30.97	30.97	30.96	83.2	82.6	82.6	5.64	5.59	5.59	3.45	3.40	3.40	6	7.00
	11:32		Middle	3.5	26.40	26.40		8.29	8.29		30.94	30.94		82.1	82.4		5.55	5.57		3.37	3.39		8	
25/7/16	15:33	Sunny	Middle	3.5	27.20	27.20	27.30	8.34	8.34	8.35	31.48	31.48	31.41	75.6	74.3	73.9	5.02	4.91	4.90	3.69	3.61	3.68	6	6.00
	15:35		Middle	3.5	27.40	27.40		8.35	8.35		31.33	31.33		73.5	72.2		4.88	4.79		3.68	3.73		6	
27/7/16	16:55	Fine	Middle	3.5	27.00	27.00	27.00	8.26	8.26	8.28	31.53	31.53	31.47	93.7	94.2	93.7	6.28	6.31	6.26	4.32	4.33	4.32	8	8.50
	16:57		Middle	3.5	27.00	27.00		8.29	8.29		31.30	31.50		93.9	92.9		6.29	6.16		4.30	4.31		9	
29/7/16	8:39	Fine	Middle	3.5	27.00	27.00	26.85	8.28	8.28	8.30	30.37	30.37	30.43	76.6	76.3	75.8	5.17	5.15	5.11	3.52	3.45	3.58	3	3.00
	8:41		Middle	3.5	26.70	26.70		8.31	8.31		30.48	30.48		75.4	74.7		5.09	5.04		3.57	3.79		3	

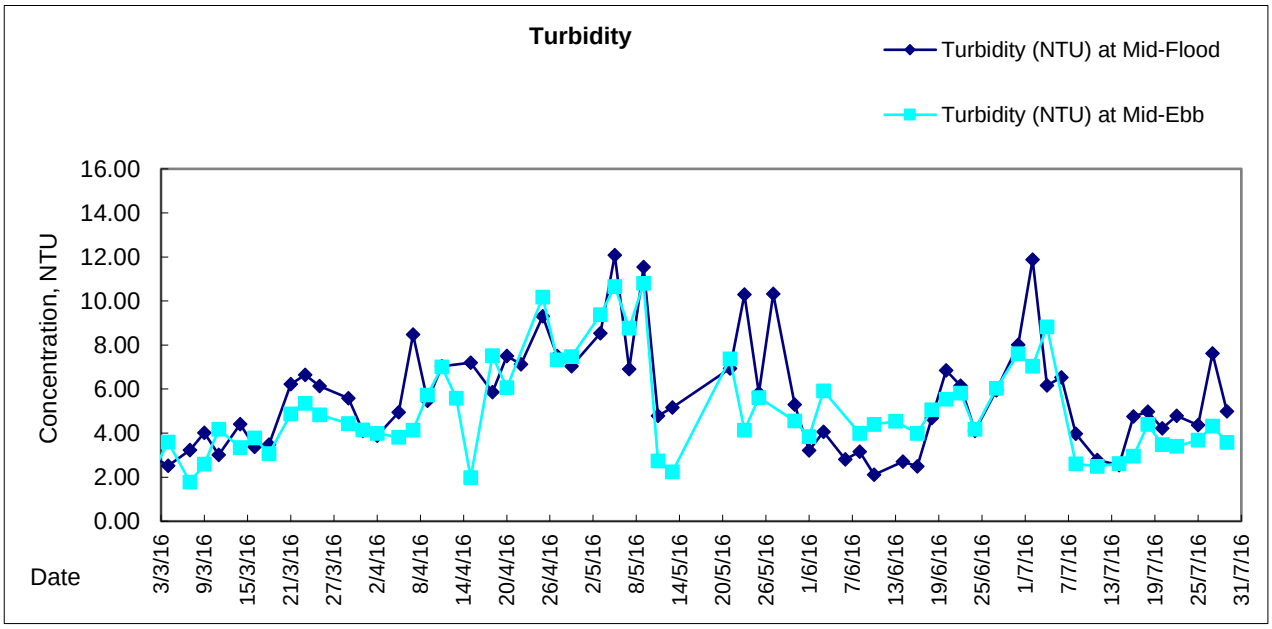
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

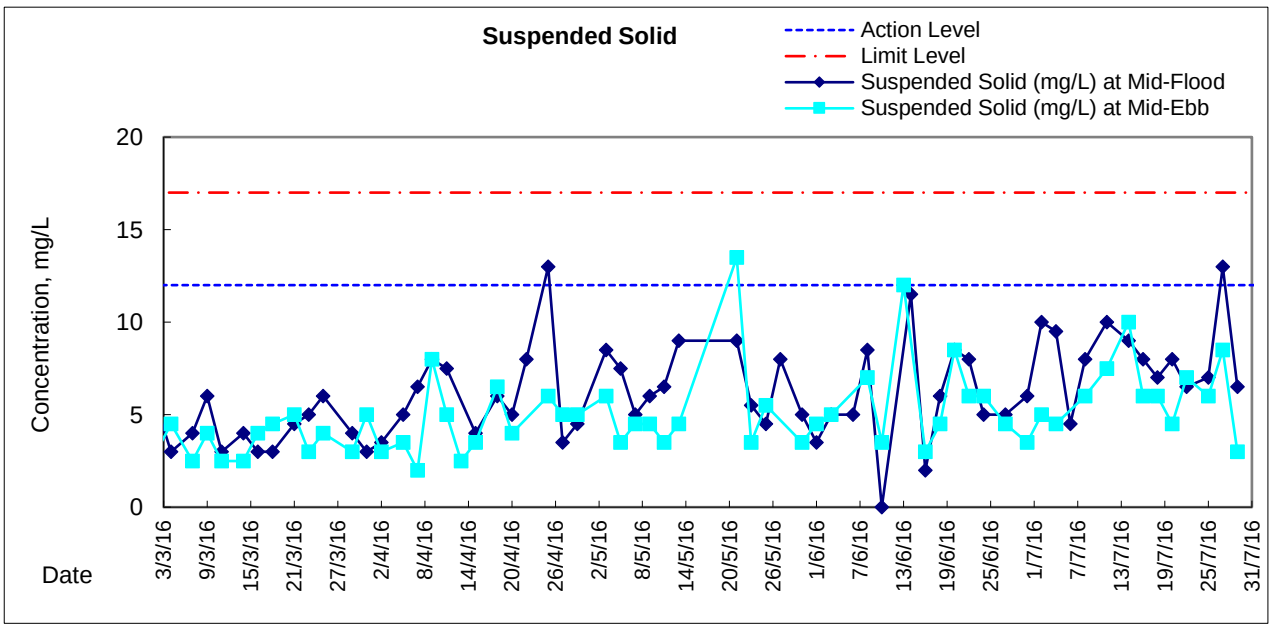
Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
2/7/16	10:29	Cloudy	Middle	4	28.90	28.90	28.90	8.57	8.57	8.61	21.58	21.58	21.52	61.6	64.8	63.9	4.21	4.43	4.37	9.13	9.05	9.07	7	7.50
	10:31		Middle	4	28.90	28.90		8.64	8.64		21.45	21.45		65.2	64.1		4.46	4.38		9.05	9.05		8	
4/7/16	10:30	Fine	Middle	4	28.10	28.10	28.25	8.44	8.44	8.44	23.19	23.19	23.18	68.4	68.2	68.1	4.69	4.67	4.66	8.67	8.69	8.72	6	6.00
	10:32		Middle	4	28.40	28.40		8.44	8.44		23.16	23.16		68.0	67.8		4.65	4.64		8.76	8.77		6	
6/7/16	-	Amber Rainstorm Warning Signal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
8/7/16	14:40	Fine	Middle	4	29.30	29.30	29.30	8.19	8.19	8.21	26.07	26.07	26.02	75.4	74.8	74.2	4.99	4.94	4.91	2.71	2.69	2.74	7	7.50
	14:42		Middle	4	29.30	29.30		8.22	8.22		25.97	25.97		74.3	72.3		4.91	4.78		2.77	2.78		8	
11/7/16	15:45	Fine	Middle	4	28.40	28.40	28.50	8.32	8.32	8.33	27.93	27.93	27.93	94.6	95.0	94.9	6.29	6.31	6.31	2.41	2.43	2.42	12	12.50
	15;47		Middle	4	28.60	28.60		8.34	8.34		27.93	27.93		95.1	94.8		6.32	6.30		2.42	2.40		13	
14/7/16	8:39	Cloudy	Middle	4	26.70	26.70	26.75	8.20	8.20	8.19	26.02	26.02	26.01	76.7	78.3	78.2	5.32	5.41	5.40	2.89	2.81	2.81	8	7.50
	8:40		Middle	4	26.80	26.80		8.17	8.17		26.00	26.00		78.8	78.8		5.44	5.44		2.77	2.78		7	
16/7/16	10:34	Fine	Middle	4	28.70	28.70	28.85	8.27	8.27	8.27	23.34	23.34	23.59	72.7	72.4	72.8	4.92	4.90	4.92	5.16	4.91	4.94	8	8.50
	10:36		Middle	4	29.00	29.00		8.27	8.27		23.34	24.34		72.5	73.5		4.89	4.96		4.79	4.88		9	
18/7/16	11:45	Fine	Middle	4	28.90	28.90	29.00	8.31	8.31	8.31	24.74	24.74	24.73	70.6	69.9	69.3	4.73	4.69	4.65	6.83	6.58	6.68	8	7.50
	11:47		Middle	4	29.10	29.10		8.31	8.31		24.72	24.72		69.5	67.1		4.66	4.50		6.64	6.66		7	
20/7/16	10:19	Fine	Middle	4	27.50	27.50	27.60	8.29	8.29	8.30	27.61	27.61	26.31	64.4	66.8	65.3	4.86	4.52	4.54	4.45	4.34	4.33	5	5.00
	10:21		Middle	4	27.70	27.70		8.30	8.30		27.51	22.51		65.9	64.0		4.46	4.33		4.28	4.24		5	
22/7/16	11:25	Fine	Middle	4	27.00	27.00	27.15	8.35	8.35	8.32	30.45	30.45	30.45	68.7	67.7	68.4	4.61	4.56	4.59	4.72	4.59	4.62	5	5.50
	11:27		Middle	4	27.30	27.30		8.28	8.28		30.44	30.44		68.4	68.9		4.58	4.62		4.58	4.58		6	
25/7/16	15:37	Sunny	Middle	4	27.90	27.90	28.00	8.27	8.27	8.29	31.50	31.50	31.46	78.8	79.4	78.8	5.18	5.22	5.18	4.60	4.63	4.47	7	7.50
	15:39		Middle	4	28.10	28.10		8.31	8.31		31.42	31.42		78.8	78.0		5.18	5.13		4.34	4.29		8	
27/7/16	16:50	Fine	Middle	4	28.20	28.20	28.50	8.25	8.25	8.25	29.47	29.47	29.45	86.8	84.6	85.4	5.78	5.57	5.88	6.78	6.81	6.82	7	7.50
	16:52		Middle	4	28.80	28.80		8.24	8.24		29.42	29.42		84.7	85.3		6.54	5.61		6.83	6.87		8	
29/7/16	8:43	Fine	Middle	4	27.00	27.00	27.05	8.28	8.28	8.28	30.19	30.19	30.23	65.7	66.9	67.0	4.40	4.48	4.49	4.03	4.02	4.02	5	4.50
	8:45		Middle	4	27.10	27.10		8.28	8.28		30.26	30.26		67.9	67.3		4.56	4.52		4.01	4.00		4	

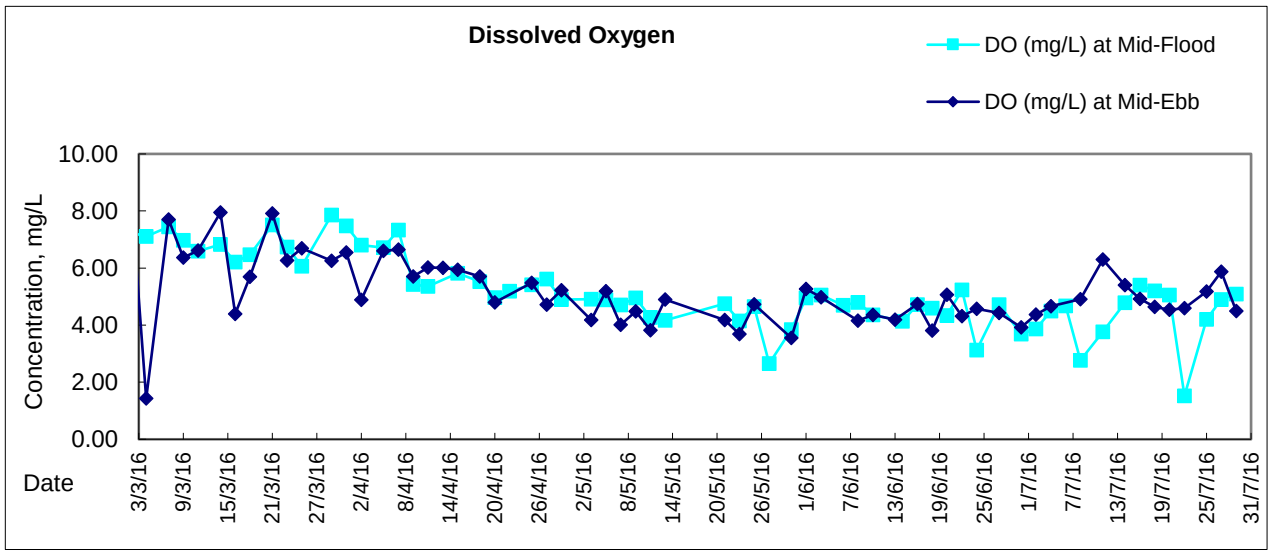
Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups

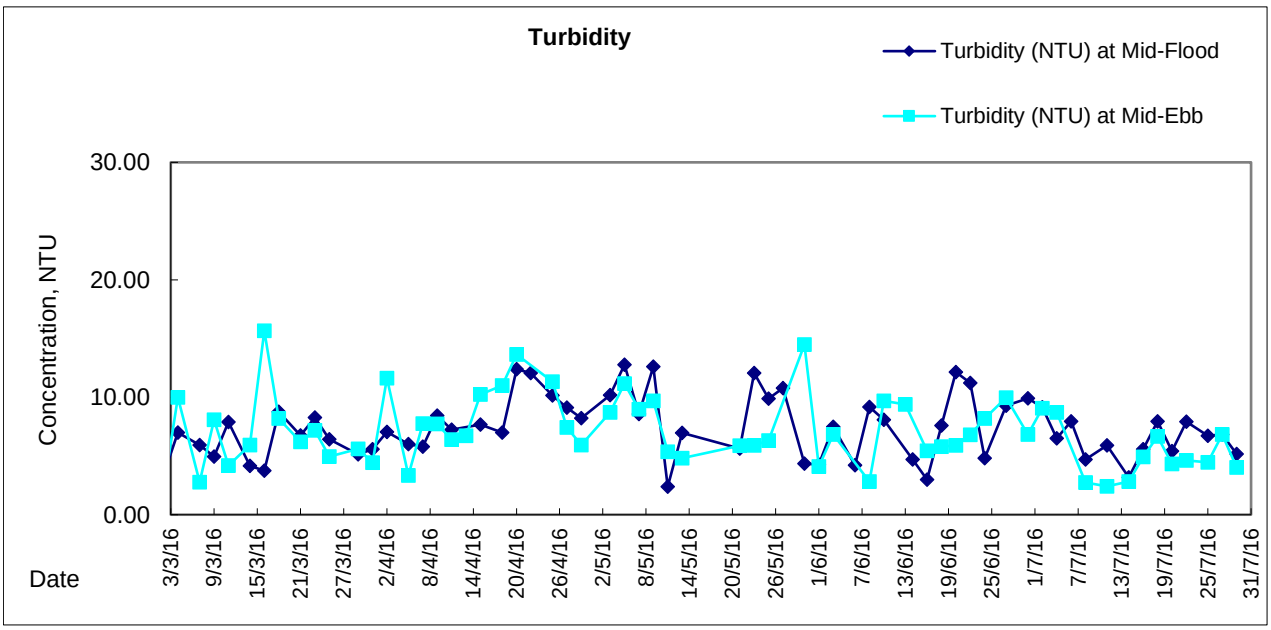


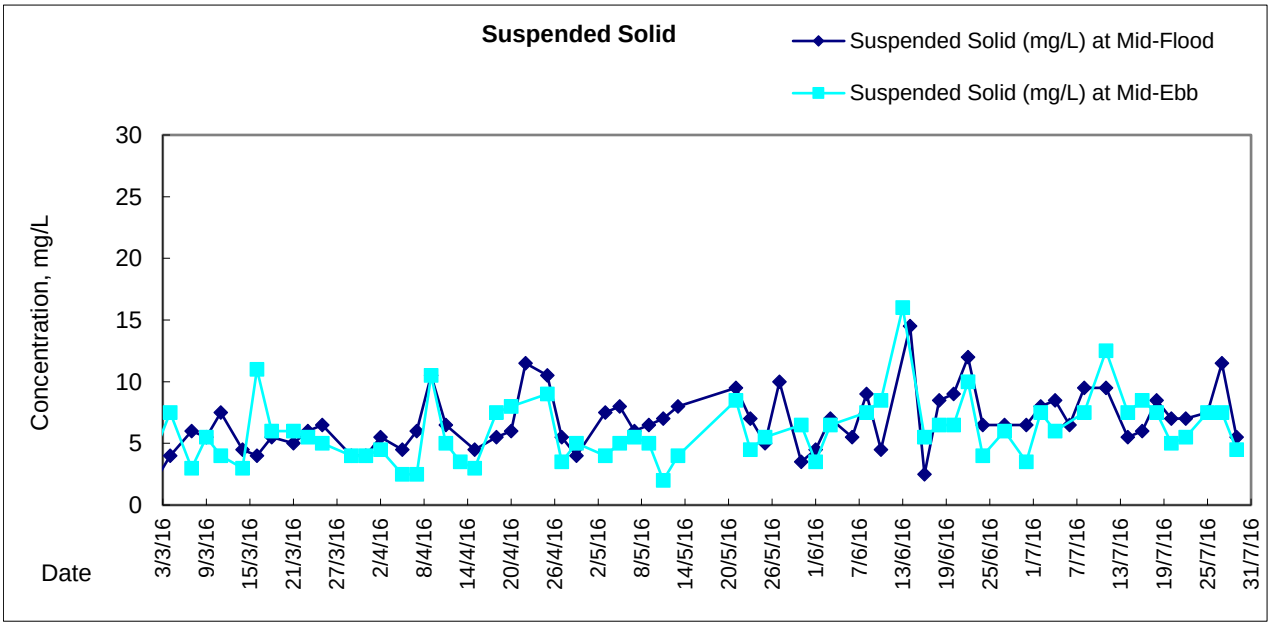




Graphic Presentation of Water Quality Result of Culvert J - Reference Station







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

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

Event and Action Plan for Noise Quality				
Event	**Action**			
	ET Leader	**IC(E)**	**ER**	**Contractor**
Action Level is reached	1. Notify IC(E) and Contractor 2. Carry out investigation 3. Report the results of the investigation to the IC(E) and Contractor 4. Discuss with the Contractor and formulate remedial measures	1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposal to IC(E) 2. Implement noise mitigation proposals
Limit Level is reached	1. Notify IC(E), ER, EPD and Contractor 2. Identify source 3. Repeat measurement to confirm findings 4. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 5. Inform IC(E), ER and EPD the causes & actions taken for the exceedances 6. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 7. If exceedance stops cease additional monitoring	1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented 5. 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	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated

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

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

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

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

Appendix 6.2

Summary for Notification of Exceedance

Ref no.	Date	Tide	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16CR013	2 Jul 2016	Mid-ebb	M5B	DO (mg/L)	3.95	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)	5.00	12.00	17.00	**Action taken/ to be taken:**	Immediate repeated in-site measurement had conducted to confirm the exceedance. Checking with the contractor works and review previous monitoring data.
								Remarks/ Other Obs.:	Despite removal of seawall blocks was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including deployment of localized silt curtain were in place. Low SS level was recorded during monitoring period. Location of construction area was at the downstream of monitoring station M5B. In view of the above, it was considered that the exceedance was not related to Project.
X_16CR014	2 Jul 2016	Mid-flood	M5B	DO (mg/L)	4.16	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)	10.00	12.00	17.00	**Action taken/ to be taken:**	Immediate repeated in-site measurement had conducted to confirm the exceedance. Checking with the contractor works and review previous monitoring data.
								Remarks/ Other Obs.:	Despite removal of seawall blocks was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including deployment of localized silt curtain were in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project.
X_16CR015	27 Jul 2016	Mid-flood	M5B	DO (mg/L)	5.43	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)	13.00	12.00	17.00	**Action taken/ to be taken:**	Immediate repeated in-site measurement had conducted to confirm the exceedance. Checking with the contractor works and review previous monitoring data.
								Remarks/ Other Obs.:	Despite trimming of rockbed profile was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including deployment of localized silt curtain were in place. Location of construction area was at the downstream of monitoring station M5B. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project.

Appendix 9.1

Complaint Log

Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150211	21/1/2015	EPD complaint (EPD Ref.: H04/RS/0001716-15) 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. In addition, no environmental deficiency related to dust mitigation was identified at the concerned location during weekly environmental inspections conducted on 27 Jan, 3 and 10 Feb 2015 and dust mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place and no dust related impact from the construction works at the concerned location was observed. Meanwhile, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. Based on reviewing relevant impact monitoring data, elevated TSP were recorded at monitoring stations across Central to Wan Chai West area despite a non-Project related exceedance was recorded at nearby monitoring station ACL2a (Contractor HK/2012/08 Site Office) on 21 January 2015 and was considered to be contributed by ambient air pollutant. The site condition under Contract HK/2012/08 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed at the concerned location. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	Closed

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. 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.	Closed

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

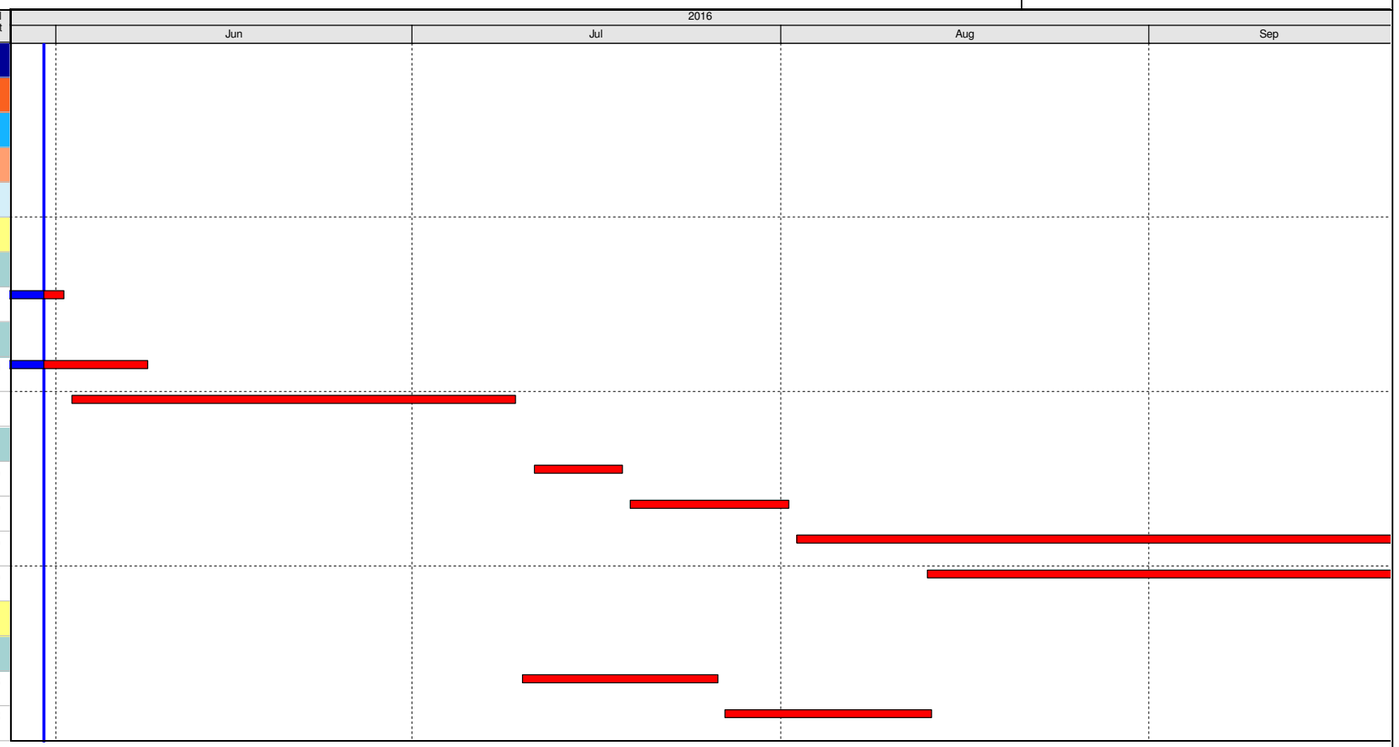
Appendix 10.1

Construction Programme of Individual Contracts

中國建築-利達聯營
CHINA STATE - LEADER JOINT VENTURE

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

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float
HK/2012/08 Revised Works Programme Rev.7_Updated as of 31-May-16					
Works for Section Completion					
Construction					
Section II A - CWB Tunnel & Slip Road Structures and Facilities					
CWB CRIII & A1					
CWB CRIII - ELS & Tunnel Structure					
CWB CRIII - ELS					
SIIA10960	Sec II A - CWB CRIII: Demolish Bulkhead at West End	2	29-Feb-16 A	01-Jun-16	-81
CWB CRIII & A1 - Tunnel Structure					
SIIA11180	Sec IIA - CWB CRIII & A1: Bay 4 north - Base & Wall	9	12-May-16 A	08-Jun-16	-50
SIIA11360	Sec IIA - CWB CRIII & A1: Bay 7 - Base, Wall, OHVD & Roof	38	02-Jun-16	09-Jul-16	-81
CWB CRIII - Other Works					
SIIA10940	Sec II A - CWB CRIII: curing and dismantle fwk (@ Bay 1)	7	11-Jul-16	18-Jul-16	-66
SIIA10945	Sec II A - CWB CRIII: waterproofing and backfill for Culvert K	12	19-Jul-16	01-Aug-16	-66
SIIA11000	Sec II A - CWB CRIII: reinstatement of culvert K after tunnel complete	45	02-Aug-16	23-Sep-16	-66
SIIA11020	Sec II A - CWB CRIII: reinstatement cooling mains after tunnel complete	45	13-Aug-16	06-Oct-16	-66
CWB CRIII & A1 - Associated Facilities					
CWB CRIII & A1 - Associated Facilities					
SIIA14700	Sec II A - CWB CRIII & A1: Civil Provisions - lay screeding	17	10-Jul-16	26-Jul-16	-58
SIIA14940	Sec II A - CWB CRIII & A1: Civil Provisions - cast cable trough	18	27-Jul-16	13-Aug-16	-58



Data Date:
31-May-16

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

3-Months Rolling Programme for Works at CRIII Area

(Jun 2016 to Aug 2016)

Date	Revision	Checked	Approved
01-Jun-16	Rev. 1		

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

	2016			
	June	July	August	September
Road P1 Nil				

LEGEND:

Actual Works

Remaining Works

Three Month Rolling Programme

Update on 26.07.2016