



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

**QUARTERLY ENVIRONMENTAL MONITORING
AND AUDIT REPORT**

- FEBRUARY 2016 TO APRIL 2016 -

CLIENTS:

**Civil Engineering and Development
Department**

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DATE:

23 May 2016

Ref.: AACWBIECEM00_0_8121L.16

24 May 2016

AECOM Asia Company Limited
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By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Quarterly Environmental Monitoring and Audit Report (February 2016 to
April 2016) for EP-122/2002/E**

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for February 2016 to April 2016 received by e-mail on 23 May 2016.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission.

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

Yours faithfully,



David Yeung
Independent Environmental Checker

c.c.	CEDD	Mr. Jason Cheung	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 Quarterly Environmental Monitoring and Audit (EM&A) Report – February 2016 to April 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 and audit findings and information during the period from 1st February 2015 to 30th April 2016.
- 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).

Construction Activities for the Reported Period

- iii. During this reporting period, the principle 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

Table 1.1 Principal Work Activities in the reporting period for Contract no. HK/2012/08

February 2016	March 2016	April 2016
<ul style="list-style-type: none"> • Structural works for tunnel construction • Roadworks • Drainage works 	<ul style="list-style-type: none"> • Structural works for tunnel construction • Roadworks • Drainage works • Seawall modification • Removal of bulk head wall 	<ul style="list-style-type: none"> • Structural works for tunnel construction • Roadworks • Drainage works • Removal of bulk head wall

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

Table 1.2 Principal Work Activities in the reporting period for Contractor no. HY/2009/18

February 2016	March 2016	April 2016
<ul style="list-style-type: none"> • P1 Road Landscaping Works 	<ul style="list-style-type: none"> • Landscaping Establishment Works 	<ul style="list-style-type: none"> • Landscaping Establishment Works

Noise Monitoring

- iv. Continuous noise monitoring was conducted at ACL3 – City Hall.
- v. **No action or limit level exceedance was recorded in the February 2016, March 2016 and April 2016 reporting period.**
- vi. 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.

Air Quality Monitoring

- vii. **No action or limit level exceedance was recorded in the February 2016, March 2016 and April 2016 reporting period.**
- viii. Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air monitoring station ACL1 – City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.
- ix. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at ACL1 – City Hall and ACL2 – PLA Barracks (ACL2a Contractor HK/2012/08 Site Office since 7 December 2013) on every six days basis.
- x. 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.
- xi. Air Quality Monitoring at ACL2 was temporarily suspended during the period from 14th November, 2013 to 3rd December, 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 quality 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 assess any potential water quality impact during the construction period.
- xvi. Water quality monitoring at M5B and Culvert J were conducted three days per weeks during the reporting period starting from 26 September 2014.



- xvii. No action or limit level exceedance was recorded in the February 2016 reporting period.
- xviii. No action or limit level exceedance was recorded in the March 2016 reporting period.
- xix. One action level exceedance of suspended solids was recorded on 25 April 2016 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-projected related. The details of recorded exceedance can be referred to the **Section 4.3**.
- xx. Complaints, Notifications of Summons and Successful Prosecutions
No environmental complaint was received in the February 2016, March 2016 and April 2016 reporting period.

1. INTRODUCTION

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-122/2002/E to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (Register No.: AEIAR-040/2001) since 1 May 2013.

1.1.2. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-122/2002/E, during the period from [1st February 2016](#) to [30th April 2016](#).

1.2 Structure of the Report

Section 1 ***Introduction*** – details the scope and structure of the report.

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

Section 3 ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.

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

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

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

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

Section 8 ***Conclusion***

2. PROJECT BACKGROUND

2.1 Background

2.1.1 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;
- Re provisioning 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 re provisioning of existing cooling water pumping stations and associated pipework systems and E&M works;
- Re provisioning 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;
- Re provisioning of the Government Heliport at the Wan Chai PCWA and re provisioning 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 Civil Engineering and Development Department (CEDD) is associated with Designated Project 1 (DP1) and Designated Project 2 (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 2 (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 no. HK/2012/08	Project Director	C. N. LAI	9106 5806	2877 1522
		Project Manager	Mr. Eddie Chung	9189 8118	
		Site Agent	Mr. Keith Tse	9095 7922	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. Ho	9856 5669	
Leighton Contractor (Asia) Limited	Contractor under Contractor no. HY/2009/18	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
		Construction Manager	Mr. Darren Grant	2823 1460	
		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

Party	Role	Post	Name	Contact No.	Contact Fax
Lam Geotechnics Limited (For Enquiry)	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4 Principal Work and Activities

2.4.1 During this reporting period, the principle 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

Table 2.3 Principal Work Activities in the reporting period for HK/2012/08

February 2016	March 2016	April 2016
<ul style="list-style-type: none"> • Structural works for tunnel construction • Roadworks • Drainage works 	<ul style="list-style-type: none"> • Structural works for tunnel construction • Roadworks • Drainage works • Seawall modification • Removal of bulk head wall 	<ul style="list-style-type: none"> • Structural works for tunnel construction • Roadworks • Drainage works • Removal of bulk head wall

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

Table 2.4 Principal Work Activities in the reporting period for HY/2009/18

February 2016	March 2016	April 2016
<ul style="list-style-type: none"> • P1 Road Landscaping Works 	<ul style="list-style-type: none"> • Landscaping Establishment Works 	<ul style="list-style-type: none"> • Landscaping Establishment Works

2.4.2 Implementation status of the recommended mitigation measures during this reporting period is presented in [Appendix 2.1](#).

3. MONITORING REQUIREMENTS

3.1. Noise Monitoring

NOISE MONITORING STATIONS

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

Table 3.1 Continuous Noise Monitoring Stations

District	Station	Description
Central	ACL3	City Hall

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

3.1.2. 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 everyday.

3.1.3. 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

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

3.1.5. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.1.6. 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.

3.2. Air Quality Monitoring

AIR QUALITY MONITORING STATIONS

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

Table 3.2 Air Quality Monitoring Stations

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

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

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

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

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

- 0.6 – 1.7 m³ per minute adjustable flow range;
- Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;

- Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm²;
- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

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

LABORATORY MEASUREMENT / ANALYSIS

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

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

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

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

3.3. Water Quality Monitoring

WATER QUALITY MONITORING STATIONS

3.3.1 The water quality monitoring stations for the Project are listed and shown in **Table 3.3** and [Figure 3.1](#). [Appendix 3.1](#) shows the established Action/Limit Levels for the monitoring works.

Table 3.3 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

- 3.3.2 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.
- 3.3.3 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

- 3.3.4 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 3.4** 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 3.4 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:

- 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.
- Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

3.3.5 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

3.3.6 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).

3.3.7 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

3.3.8 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 (e.g. Hach model 2100P or an approved similar instrument).

SAMPLER

3.3.9 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

3.3.10 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

3.3.11 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

3.3.12 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

- 3.3.13 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

- 3.3.14 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.
- 3.3.15 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.
- 3.3.16 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.

LABORATORY MEASUREMENT / ANALYSIS

- 3.3.17 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.

4. MONITORING RESULTS

4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed 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 3.1**. The monitoring results are presented in according to the Individual Contract(s).

4.0.2. In the reporting period, the concurrent contracts are:

- Contract no. HK/2012/08 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West.
- Contractor no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange

4.1. Noise Monitoring Results

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

4.1.2 The proposed division of noise monitoring station is summarized in **Table 4.1** below.

Table 4.1 Continuous Noise Monitoring Station 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.

4.1.3 No action or limit level exceedance was recorded in the February 2016, March 2016 and April 2016 reporting period.

4.1.4 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 4.1**

4.2. Air Quality Monitoring Results

- 4.2.1 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at ACL1 – City Hall and ACL2 – PLA Barracks (ACL2a Contractor HK/2012/08 Site Office since 7 December 2013) on every six days basis.
- 4.2.2 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.
- 4.2.3 Air Quality Monitoring at ACL2 was temporarily suspended during the period from 14th November, 2013 to 3rd December, 2013.
- 4.2.4 The Proposal for Relocation of Air Quality Monitoring Station at People’s Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- 4.2.5 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.
- 4.2.6 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

- 4.2.7 The proposed division of air quality monitoring stations are summarized in **Table 4.2** below.

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

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

- 4.2.8 [No action or limit level exceedance was recorded in the February 2016, March 2016 and April 2016 reporting period.](#)
- 4.2.9 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 4.2.](#)

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

4.2.10 The proposed division of air quality monitoring station is summarized in **Table 4.3** below.

Table 4.3 Air Quality Monitoring Station for Contract no. HY/2009/18

Station	Description
ACL1	City Hall

4.2.11 No action or limit level exceedance was recorded in the February 2016, March 2016 and April 2016 reporting period.

4.2.12 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 4.2](#).

4.3. Water Quality Monitoring Results

4.3.1 The proposed division of water quality monitoring stations are summarized in **Table 4.4** below.

Table 4.4 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

4.3.2 Water quality monitoring results measured in this reporting period are reviewed and summarized. Detail of water quality monitoring results and graphical presentation can be referred in **Table 4.5** and [Appendix 4.3](#)

4.3.3 Water quality monitoring at M5B and Culvert J were conducted three days per week during reporting period starting from 26 September 2014.

4.3.4 No action or limit level exceedance was recorded in the February 2016 reporting period.

4.3.5 No action or limit level exceedance was recorded in the March 2016 reporting period.

4.3.6 One action level exceedance of suspended solids was recorded on 25 April 2016 during flood tide in the April 2016 reporting period. After the investigation, the exceedance was concluded as non-project related.

4.3.7 Despite trimming of Grade 400 rock mound profile was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including the use of localized silt curtain was in place. Silt screen installed around the intake monitoring station was generally in order while nearby culvert discharge was observed. In view of the above and no exceedance recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project.

Table 4.5 Summary of Water Quality Monitoring Exceedance in Reporting Period

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	0	0	1	0	0	0	0	0
	Culvert J ¹	-	-	-	-	-	-	-	-
Total		0	0	1	0	0	0	0	0

Remarks¹: Action or limit level are not applicable to reference station Culvert J.

Remarks²: Turbidity measurement are reported as reference.

4.4. Waste Monitoring Results

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

4.4.1 Inert and Non-inert C&D wastes were disposed in this reporting period. Details of the waste flow table are summarized in **Table 4.6**

Table 4.6 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	2800	7130	TM38
	1001	49525	TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	205	1265	SENT Landfill
Non-inert C&D materials recycled, m3	NIL	NIL	NIL

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Chemical waste disposed, kg	NIL	NIL	NIL

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

4.4.2 Inert and Non-inert C&D wastes were disposed in this reporting period. Details of the waste flow table are summarized in **Table 4.7**

Table 4.7 Details of Waste Disposal for Contract no. HY/2009/18

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

5. COMPLIANCE AUDIT

5.0.1. The Event Action Plan for construction noise and air quality are presented in [Appendix 5.1](#).

5.1. Noise Monitoring

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

5.1.1 No action or limit level exceedance was recorded in the February 2106, March 2016 and April 2016 reporting period.

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

5.1.2 No action or limit level exceedance was recorded in the February 2106, March 2016 and April 2016 reporting period.

5.2. Air Quality Monitoring

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

5.2.1 No action or limit level exceedance was recorded at ACL1 – City Hall and ACL2a Contractor HK/2012/08 Site Office in February 2016, March 2016 and April 2016 reporting period.

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

5.2.2 No action or limit level exceedance was recorded at ACL1 – City Hall in February 2016, March 2016 and April 2016 reporting period

5.3. Water Quality Monitoring

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

5.3.1 No action or limit level exceedance was recorded in the February 2016 reporting period.

5.3.2 No action or limit level exceedance was recorded in the March 2016 reporting period.

5.3.3 One action level exceedance of suspended solids was recorded on 25 April 2106 during flood tide in the April 2016 reporting period. After the investigation, the exceedance was concluded as non-project related.

5.4. Site Audit

5.4.1 There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.

5.5. Review of the Reasons for and the Implications of Non-compliance

5.5.1 There was no non-compliance from the site audits in the reporting period.

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

5.6.1 There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint was received in the February 2016, March 2016 and April 2016 reporting period.
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in [Appendix 6.1](#).
- 6.0.3. No notification of summons or prosecution was received in the reporting period. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 6.1** and **Table 6.2** respectively.

Table 6.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works to last reporting quarter	3
February 2016 – April 2016	0
Project-to-Date	3

Table 6.2 Cumulative Statistics on Successful Prosecutions

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

7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. This section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting period.
- 7.0.3. According to the construction programme of 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, D-wall construction at Wan Chai East and culvert construction, piling and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, backfilling 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 area.
- 7.0.4. The major environmental impacts generated from tunnel works at Central and tunnel works at Wan Chai East, IECL and Causeway Bay Typhoon Shelter were undertaken in the reporting period. With mitigation measures, no significant air impact from construction activities was anticipated in the reporting period. Besides, no project-related exceedances were recorded during the water, air and noise environmental monitoring events in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II was insignificant.

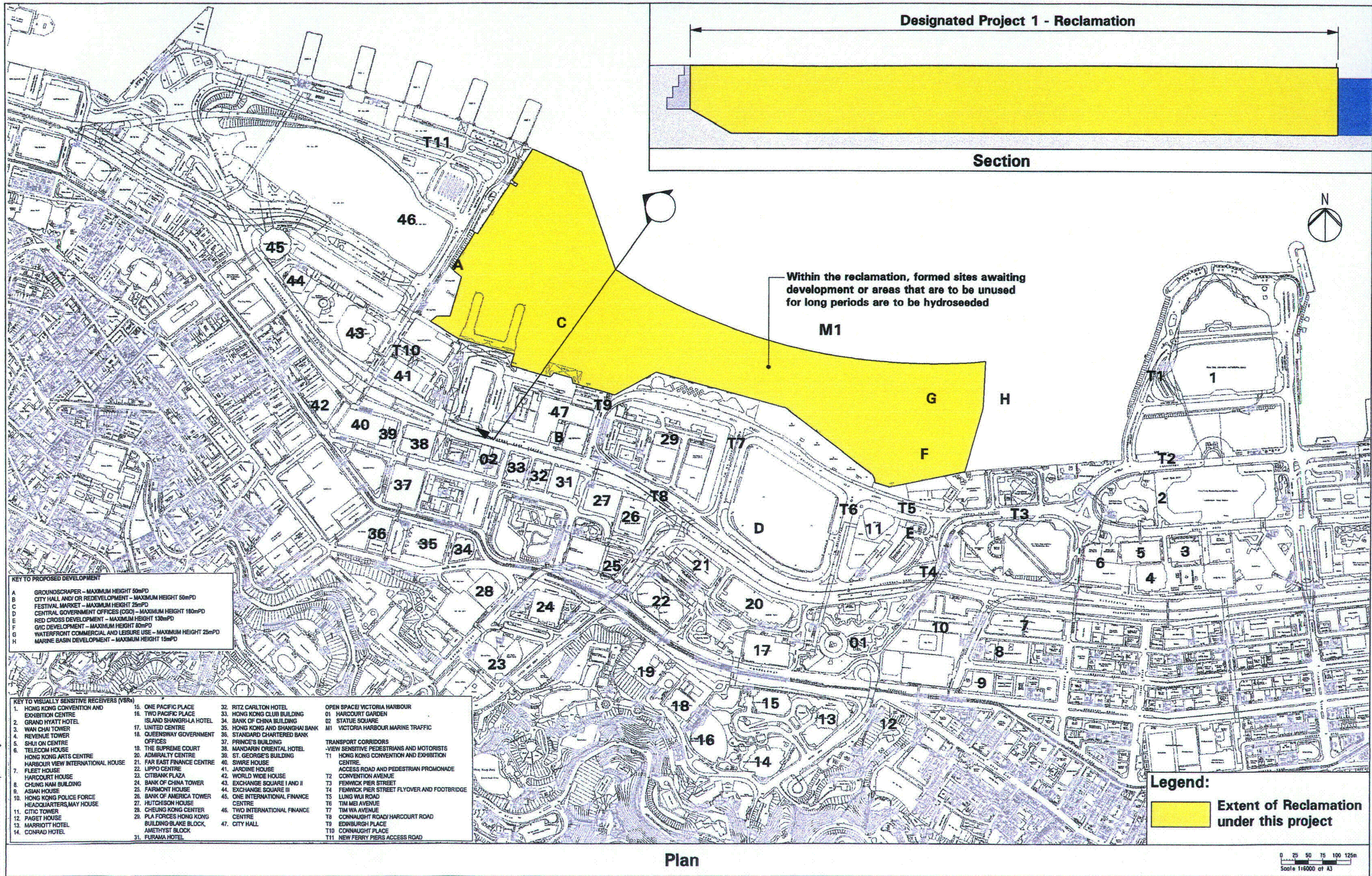
8. CONCLUSION

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



Figure 2.1

Project Layout

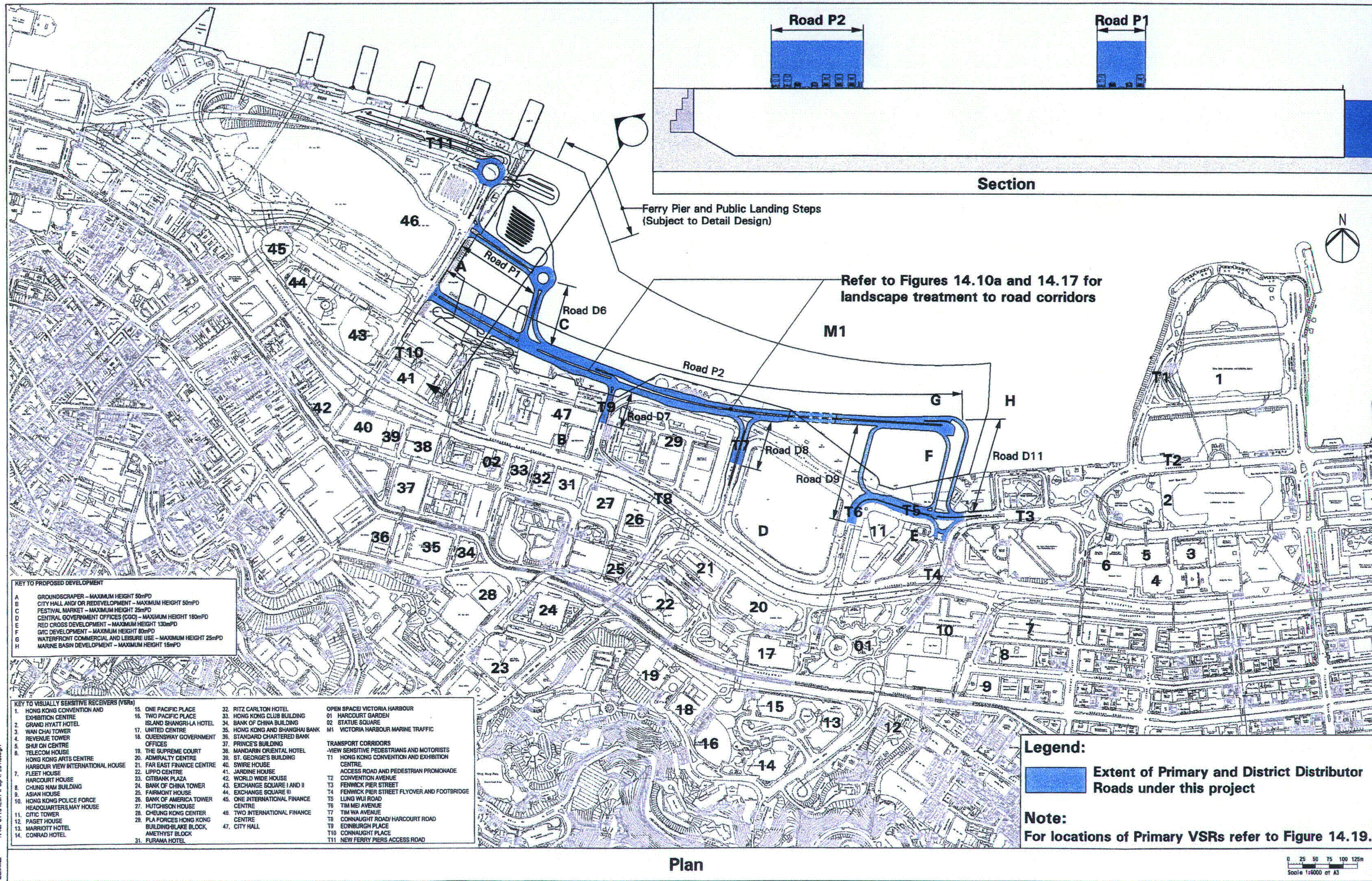


KEY TO PROPOSED DEVELOPMENT

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/C 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	15. ONE PACIFIC PLACE	32. RITZ CARLTON HOTEL	OPEN SPACE/ VICTORIA HARBOUR
2. GRAND HYATT HOTEL	16. TWO PACIFIC PLACE	33. HONG KONG CLUB BUILDING	01. HARCOURT GARDEN
3. WAN CHAI TOWER	17. UNITED CENTRE	34. BANK OF CHINA BUILDING	02. STATUE SQUARE
4. REVENUE TOWER	18. QUEENSWAY GOVERNMENT OFFICES	35. HONG KONG AND SHANGHAI BANK	M1. VICTORIA HARBOUR MARINE TRAFFIC
5. SHUI ON CENTRE	19. THE SUPREME COURT	36. STANDARD CHARTERED BANK	TRANSPORT CORRIDORS
6. TELECOM HOUSE	20. ADMIRALTY CENTRE	37. PRINCE'S BUILDING	-VIEW SENSITIVE PEDESTRIANS AND MOTORISTS
7. HONG KONG ARTS CENTRE	21. FAR EAST FINANCE CENTRE	38. MANDARIN ORIENTAL HOTEL	T1. HONG KONG CONVENTION AND EXHIBITION CENTRE
8. HARBOUR VIEW INTERNATIONAL HOUSE	22. LIPPO CENTRE	39. ST. GEORGE'S BUILDING	ACCESS ROAD AND PEDESTRIAN PROMONADE
9. FLEET HOUSE	23. CITIBANK PLAZA	40. SWIRE HOUSE	T2. CONVENTION AVENUE
10. HARCOURT HOUSE	24. BANK OF CHINA TOWER	41. JARDINE HOUSE	T3. FENWICK PIER STREET
11. CHUNG NAM BUILDING	25. FAIRMONT HOUSE	42. WORLD WIDE HOUSE	T4. FENWICK PIER STREET FLYOVER AND FOOTBRIDGE
12. ASIAN HOUSE	26. BANK OF AMERICA TOWER	43. EXCHANGE SQUARE I AND II	T5. LUNG WUI ROAD
13. HONG KONG POLICE FORCE HEADQUARTERS, MAY HOUSE	27. HUTCHISON HOUSE	44. EXCHANGE SQUARE III	T6. TIM MEI AVENUE
14. CITIC TOWER	28. CHEUNG KONG CENTER	45. ONE INTERNATIONAL FINANCE CENTRE	T7. TIM WA AVENUE
15. PAGET HOUSE	29. PLA FORCES HONG KONG BUILDING-BLAKE BLOCK, AMETHYST BLOCK	46. TWO INTERNATIONAL FINANCE CENTRE	T8. CONNAUGHT ROAD/ HARCOURT ROAD
16. MARRIOTT HOTEL	30. FURAMA HOTEL	47. CITY HALL	T9. EDINBURGH PLACE
17. CONRAD HOTEL			T10. CONNAUGHT PLACE
			T11. NEW FERRY PIERS ACCESS ROAD



**Designated Project 2 - Primary and District Distributor Roads
 Layout Plan and Section**

Figure 14.10



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	GVC 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	15. ONE PACIFIC PLACE	32. RITZ CARLTON HOTEL	OPEN SPACE/ VICTORIA HARBOUR
2. GRAND HYATT HOTEL	16. TWO PACIFIC PLACE	33. HONG KONG CLUB BUILDING	01 HARCOURT GARDEN
3. WAN CHAI TOWER	17. UNITED CENTRE	34. BANK OF CHINA BUILDING	02 STATUE SQUARE
4. REVENUE TOWER	18. QUEENSWAY GOVERNMENT OFFICES	35. HONG KONG AND SHANGHAI BANK	M1 VICTORIA HARBOUR MARINE TRAFFIC
5. SHUI ON CENTRE	19. THE SUPREME COURT	36. STANDARD CHARTERED BANK	TRANSPORT CORRIDORS
6. TELECOM HOUSE	20. ADMIRALTY CENTRE	37. PRINCE'S BUILDING	-VIEW SENSITIVE PEDESTRIANS AND MOTORISTS
7. FLEET HOUSE	21. FAR EAST FINANCE CENTRE	38. MANDARIN ORIENTAL HOTEL	T1 HONG KONG CONVENTION AND EXHIBITION CENTRE
8. HARCOURT HOUSE	22. LIPPO CENTRE	39. ST. GEORGE'S BUILDING	ACCESS ROAD AND PEDESTRIAN PROMENADE CONVENTION AVENUE
9. ASIAN HOUSE	23. CITIBANK PLAZA	40. SWIRE HOUSE	T2
10. HONG KONG POLICE FORCE HEADQUARTERS, MAY HOUSE	24. BANK OF CHINA TOWER	41. JAPANESE HOUSE	T3
11. CITIC TOWER	25. FAIRMONT HOUSE	42. WORLD WIDE HOUSE	T4 FENWICK PIER STREET FLYOVER AND FOOTBRIDGE
12. PAGET HOUSE	26. BANK OF AMERICA TOWER	43. EXCHANGE SQUARE I AND II	T5 LUNG WUI ROAD
13. MARRIOTT HOTEL	27. HUTCHISON HOUSE	44. EXCHANGE SQUARE III	T6 TIM MEI AVENUE
14. CONRAD HOTEL	28. CHEUNG KONG CENTER	45. ONE INTERNATIONAL FINANCE CENTRE	T7 TIM WA AVENUE
	29. PLA FORCES HONG KONG BUILDING-SLAKE BLOCK, AMETHYST BLOCK	46. TWO INTERNATIONAL FINANCE CENTRE	T8 CONNAUGHT ROAD/ HARCOURT ROAD
	31. PURANA HOTEL	47. CITY HALL	T9 EDINBURGH PLACE
			T10 CONNAUGHT PLACE
			T11 NEW FERRY PIERS ACCESS ROAD

Legend:

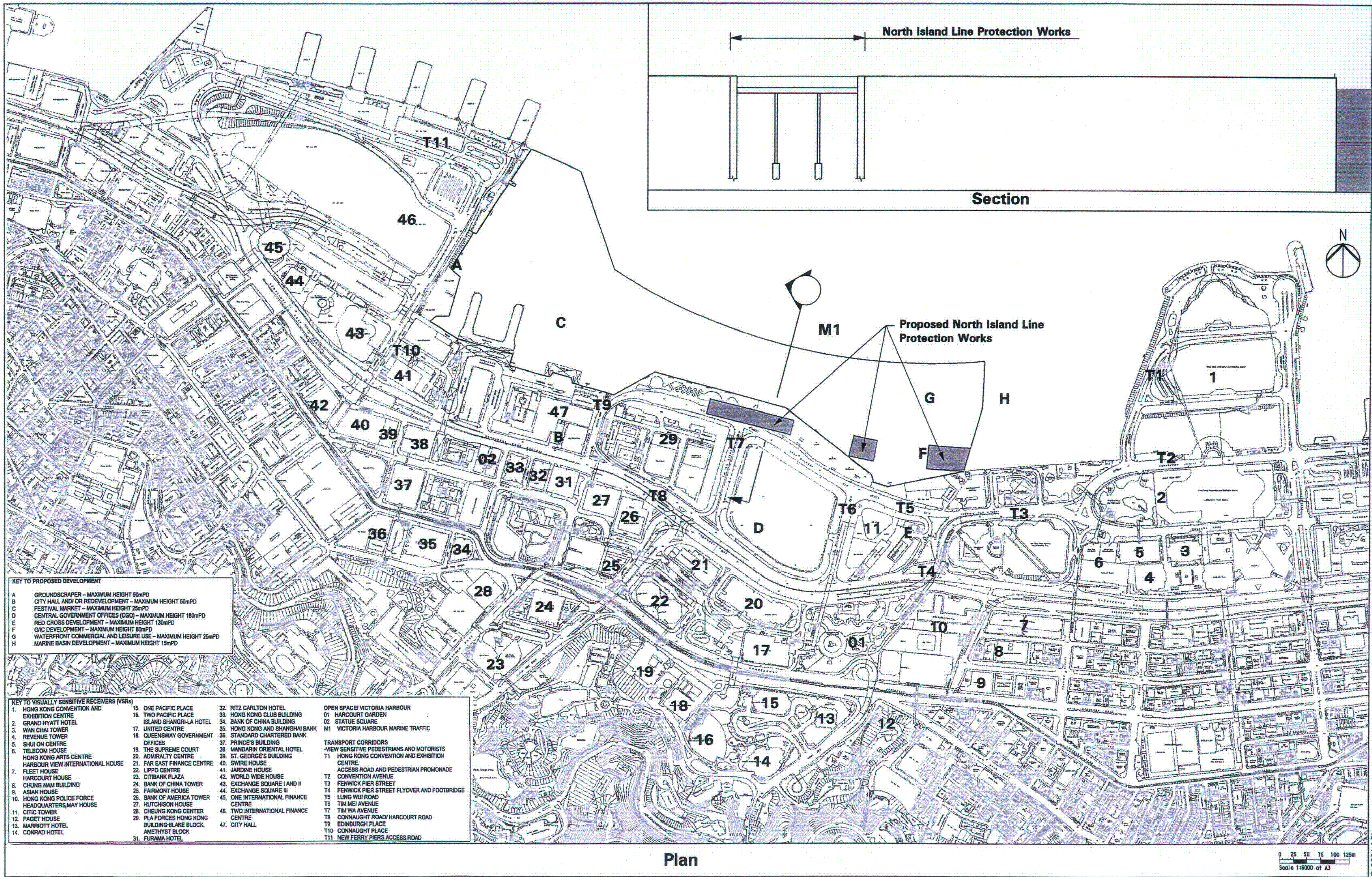
Extent of Central Wan Chai Bypass Tunnel under this project

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

Figure 14.11

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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	GIC 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	15. ONE PACIFIC PLACE	32. RITZ CARLTON HOTEL	OPEN SPACE/ VICTORIA HARBOUR
2. GRAND HYATT HOTEL	16. TWO PACIFIC PLACE	33. HONG KONG CLUB BUILDING	01. HARCOURT GARDEN
3. WAN CHAI TOWER	17. ISLAND SHANGRI-LA HOTEL	34. BANK OF CHINA BUILDING	02. STATUE SQUARE
4. REVENUE TOWER	18. UNITED CENTRE	35. HONG KONG AND SHANGHAI BANK	M1 VICTORIA HARBOUR MARINE TRAFFIC
5. SHUI ON CENTRE	19. QUEENSWAY GOVERNMENT OFFICES	36. STANDARD CHARTERED BANK	TRANSPORT CORRIDORS
6. TELECOM HOUSE	20. ADMIRALTY CENTRE	37. PRINCE'S BUILDING	-VIEW SENSITIVE PEDESTRIANS AND MOTORISTS
7. HONG KONG ARTS CENTRE	21. FAR EAST FINANCE CENTRE	38. MANDARIN ORIENTAL HOTEL	T1 HONG KONG CONVENTION AND EXHIBITION CENTRE
8. HARBOUR VIEW INTERNATIONAL HOUSE	22. LIPPO CENTRE	39. ST. GEORGE'S BUILDING	ACCESS ROAD AND PEDESTRIAN PROMENADE
9. FLEET HOUSE	23. CITIBANK PLAZA	40. SWIRE HOUSE	T2
10. HARCOURT HOUSE	24. BANK OF CHINA TOWER	41. JARDINE HOUSE	T3
11. CHUNG NAM BUILDING	25. FAIRMONT HOUSE	42. WORLD WIDE HOUSE	T4
12. ASIAN HOUSE	26. BANK OF AMERICA TOWER	43. EXCHANGE SQUARE I AND II	T5
13. HONG KONG POLICE FORCE HEADQUARTERS, MAY HOUSE	27. HUTCHISON HOUSE	44. EXCHANGE SQUARE III	T6
14. CITIC TOWER	28. CHEUNG KONG CENTER	45. ONE INTERNATIONAL FINANCE CENTRE	T7
15. PAGET HOUSE	29. PLA FORCES HONG KONG BUILDING-BLAKE BLOCK	46. TWO INTERNATIONAL FINANCE CENTRE	T8
16. MARRIOTT HOTEL	30. AMETHYST BLOCK	47. CITY HALL	T9
17. CONRAD HOTEL	31. FURAMA HOTEL		T10
			T11

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

Figure 14.12



Figure 2.2

Project Organization Chart



Project Organization Chart

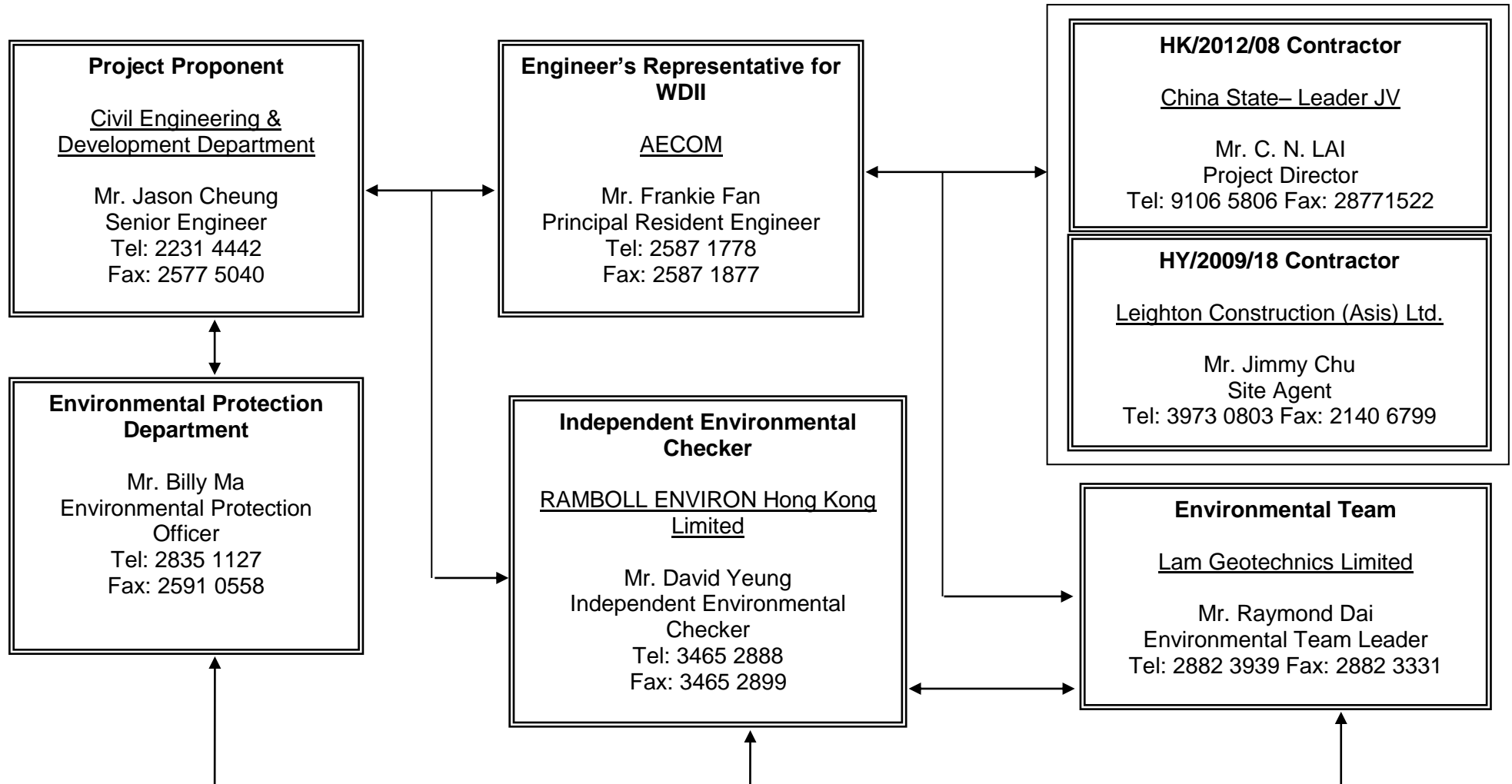


Figure 2.2



Figure 3.1

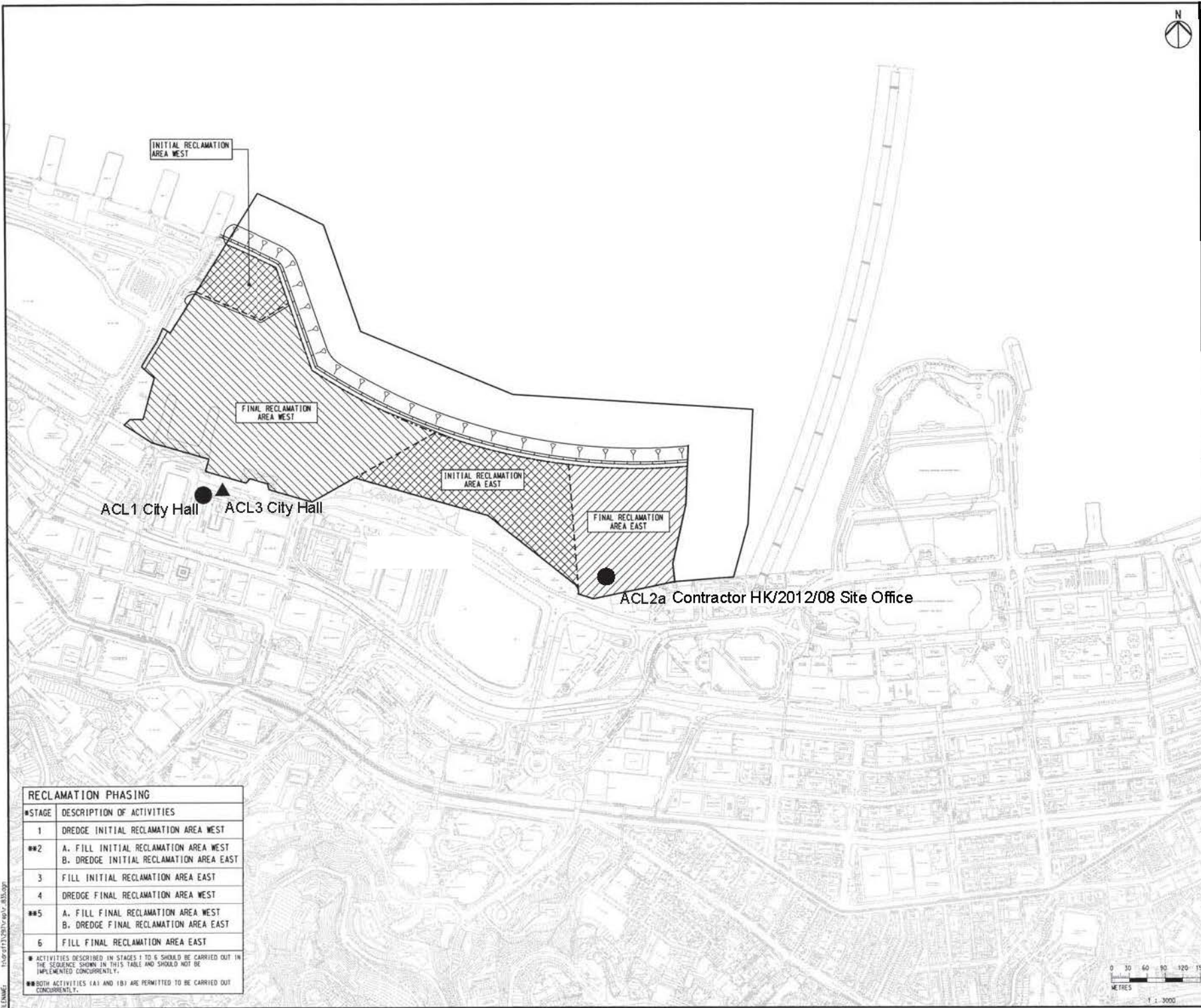
Locations of Environmental Monitoring Stations



DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE

LEGEND:

- DUST MONITORING STATIONS
- ▲ NOISE MONITORING STATION



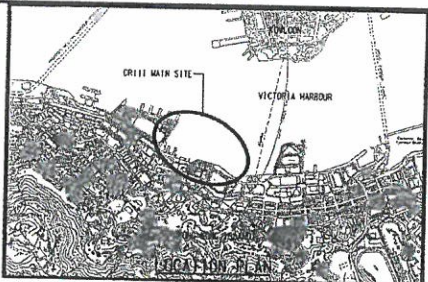
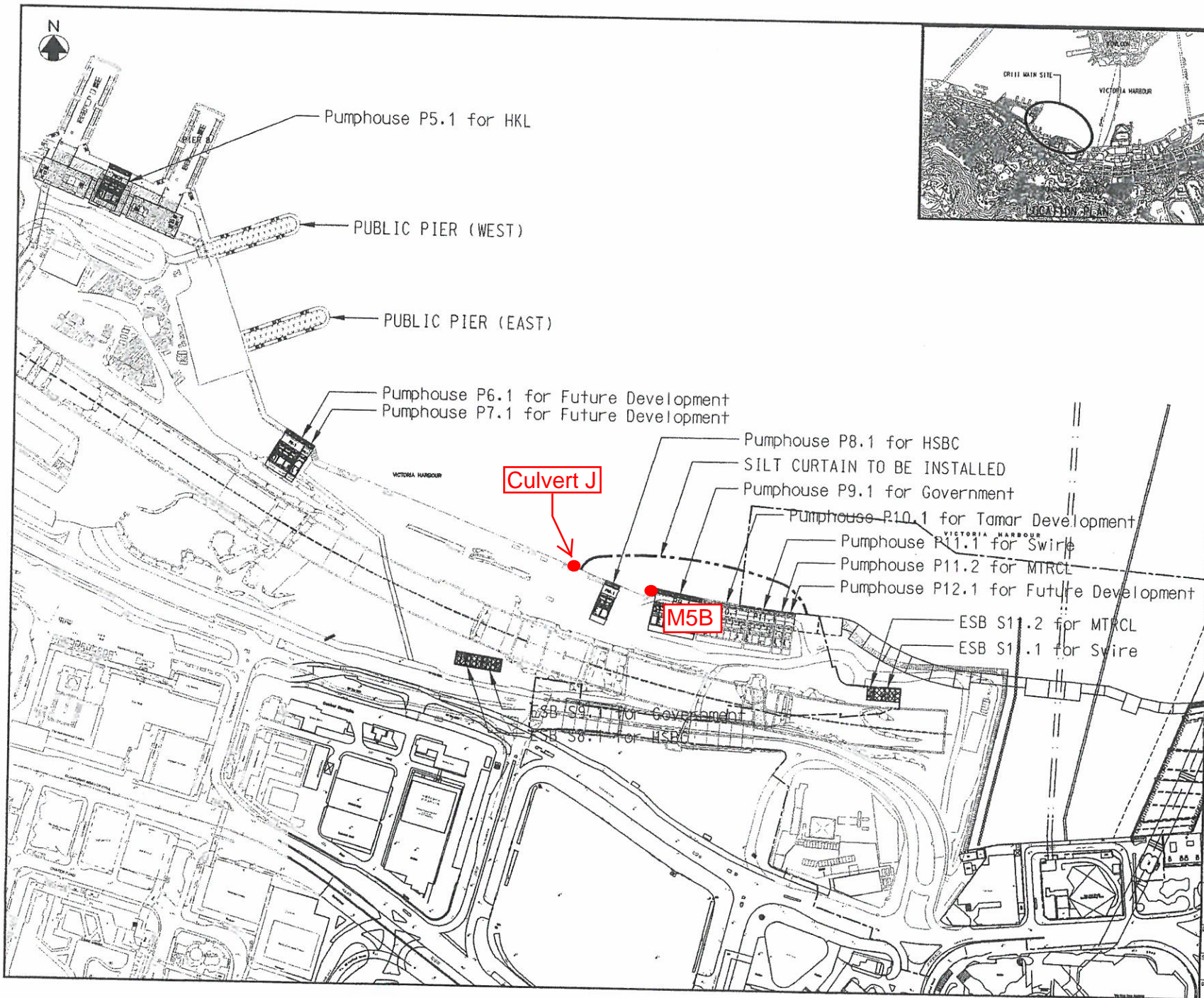
RECLAMATION PHASING	
#STAGE	DESCRIPTION OF ACTIVITIES
1	DREDGE INITIAL RECLAMATION AREA WEST
**2	A. FILL INITIAL RECLAMATION AREA WEST B. DREDGE INITIAL RECLAMATION AREA EAST
3	FILL INITIAL RECLAMATION AREA EAST
4	DREDGE FINAL RECLAMATION AREA WEST
**5	A. FILL FINAL RECLAMATION AREA WEST B. DREDGE FINAL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

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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

中環建策 - 利達聯泰
CHINA STATE - LEADER JOINT VENTURE

DRG. NO.
HK_2012_08/CDB/S/SK/071

SCALE
A3 1:3000
DATE OF BRINGING INTO
8-AUG-2013

DRAWING ARE IN METRES
COPYRIGHT RESERVED



Appendix 2.1

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 Status	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	To be implemented at the operation stage	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	To be implemented at the operation stage	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	Implemented during Construction Stage	P, R, A, C	7
4	Operational Landscape and Visual	Operational stage landscape and visual mitigation measures should include + <ul style="list-style-type: none"> · 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; 	Various	Area wide, proposals at design stage for implementation during construction	To be implemented at the operation stage	P	--



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul style="list-style-type: none"> · 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; · 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	To be implemented at the operation stage	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	Implemented during Construction Stage	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	Implemented during Construction Stage	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	Implemented during Construction Stage	P,R,A,C	4
		· Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme.	TDD's Contractor	Works Area During construction End of construction	Implemented during Construction	P,R,A,C	4



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
					Stage		
		· 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	Implemented during Construction Stage	P,R,A,C	4
		· 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	Implemented during Construction Stage	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	Implemented during Construction Stage	P,R,A,C	4



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
6	Construction Air Quality Control Requirements	· Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	TDD's Contractor	Works Area During construction End of construction	Implemented during Construction Stage	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	Implemented during Construction Stage	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	Implemented during Construction Stage	P,R,A,C	6,7
		· Watering during excavation and material handling.	TDD's Contractor	Works Area During construction End of construction	Implemented during Construction Stage	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	Implemented during Construction Stage	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	Implemented during Construction Stage	P,R,A,C	6,7
		· Covers for dusty stockpiles	TDD's Contractor	Works Area During construction End of construction	Implemented during Construction Stage	P,R,A,C	6
		· All plant shall be maintained to prevent any undue air emissions	TDD's Contractor	Works Area During construction End of construction	Implemented during Construction	P,R,A,C	6



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
					Stage		
7	Construction Water Quality Control Requirements	<p>Specific Measures Associated with Dredging Works</p> <ul style="list-style-type: none"> 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 : <ul style="list-style-type: none"> Maximum Dredging Rate : 184 m²/hour Maximum Daily Filling Rate : 17,727 m³/day (for bulk reclamation filling) <p>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.</p> <ul style="list-style-type: none"> no dredging should take place under very bad weather conditions. 	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	Implemented during Construction Stage	R	7
		<ul style="list-style-type: none"> silt curtain around dredging sites to be provided as necessary. <p>Specific Measure for Marine Disposal of Dredged Materials and Marine Sand Filling Works</p> <ul style="list-style-type: none"> 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 	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	Implemented during Construction Stage	R	7



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
		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 transportation;					
		<ul style="list-style-type: none"> · 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 m³ capacity, well maintained and capable of rapid opening and discharge at the disposal site; · the dredged material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC; · discharge should be undertaken rapidly and the hoppers should then immediately be closed. Material adhering to the sides of the hopper should not be washed out of the hopper and the hopper should remain closed until the barge next return to the disposal site; · the dumping vessel is not required to station but will be guided by the site staff managing the disposal facility. The vessel crew should be familiar with such operational procedures; · monitoring of the barge loading to ensure that loss of material does not take place during transportation; and · Transport barges or vessels shall be equipped with automatic self-monitoring devices. 	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	Implemented during Construction Stage	R	7



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
		<p>Specific Measures Associated with Dredging and Filling Works when CRIII Dredging and Filling Works are being constructed concurrently with WDII Dredging and Filling Works</p> <ul style="list-style-type: none"> · 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	<p>Reclamation Areas as appropriate</p> <p>When CRIII and WDII - Dredging and Filling Works occur concurrently</p> <p>End of Concurrent Works</p>	Implemented during Construction Stage	R	-
		<p>Specific Measures Associated with Floating Debris</p> <p>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.</p>	TDD's Contractor	<p>Whole reclamation area</p> <p>During construction</p> <p>At end of construction</p>	Implemented during Construction Stage	R	-
		<p>Specific Measures for Dealing with Culvert L Outfall at Completion of CRIII Eastern Seawall</p> <p>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.</p>	TDD's Consultant	<p>Culvert L Outfall</p> <p>During Construction</p> <p>To handover to WDII Contractor</p>	Implemented during Construction Stage	R	--



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
		<p>Construction Run-off and Drainage</p> <ul style="list-style-type: none"> - 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	<p>Works Area</p> <p>During construction</p> <p>End of construction</p>	<p>Implemented during Construction Stage</p>	P,R,A,C	7
		<ul style="list-style-type: none"> - 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 Status	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul style="list-style-type: none"> - 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	<p style="text-align: center;">Work Area</p> <p style="text-align: center;">During construction</p> <p style="text-align: center;">End of construction</p>	<p style="text-align: center;">Implemented during Construction Stage</p>	P,R,A,C	7
		<ul style="list-style-type: none"> - 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). - If the used bentonite slurry is intended to be disposed of through the public drainage 	TDD's Contractor	<p style="text-align: center;">Work Area</p> <p style="text-align: center;">During construction</p> <p style="text-align: center;">End of construction</p>	<p style="text-align: center;">Implemented during Construction Stage</p>	P,R,A,C	7



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
		<p>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.</p>					
		<ul style="list-style-type: none"> - 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. 					
		<ul style="list-style-type: none"> -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 Status	Permit Conditions apply to	Relevant Guidelines Legislation
8.	Construction Waste Control Requirements	<p>Specific Measures Associated with Marine sediments</p> <p>In accordance with the WBTC No. 3/2000, the seriously contaminated material must be dredged and transported with great care. Mitigation measures, including the use of close-grab dredgers, shall be incorporated.</p> <p>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.</p>	TDD's Contractor	Whole Reclamation Area During Reclamation Works End of Reclamation Work	Implemented during Construction Stage	R	7
		<p>Segregation and Disposal of Wastes</p> <ul style="list-style-type: none"> · 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	Implemented during Construction Stage	P, R, A, C	1,8, 9
		<p>Storage, Collection and Transport of Waste</p> <ul style="list-style-type: none"> · 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 Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) 	TDD's Contractor	Works Areas During Construction End of Construction	Implemented during Construction Stage	P, R, A, C	1, 8, 9



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Status	Permit Conditions apply to	Relevant Guidelines Legislation
		and the Crown Land Ordinance; <ul style="list-style-type: none"> · 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 : <ul style="list-style-type: none"> · 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	Implemented during Design Stage	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	Implemented during Construction Stage Implemented during Design Stage	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 3.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Action and Limit Level for Air Monitoring

Monitoring Locations	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	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 4.1

Noise Monitoring Graphical Presentations

Continuous Noise Monitoring Data ACL3 (City Hall)

Normal Day 07:00-19:00

1/2/16 7:01	59	5/2/16 13:01	63	15/2/16 7:31	60	19/2/16 14:01	60	25/2/16 8:31	62	1/2/16 20:01	50
1/2/16 7:31	62	5/2/16 13:31	63	15/2/16 8:01	61	19/2/16 14:31	53	25/2/16 9:01	63	1/2/16 20:06	63
1/2/16 8:01	62	5/2/16 14:01	60	15/2/16 8:31	63	19/2/16 15:01	58	25/2/16 9:31	63	1/2/16 20:11	62
1/2/16 8:31	63	5/2/16 14:31	64	15/2/16 9:01	62	19/2/16 15:31	61	25/2/16 10:01	63	1/2/16 20:16	55
1/2/16 9:01	62	5/2/16 15:01	55	15/2/16 9:31	62	19/2/16 16:01	61	25/2/16 10:31	63	1/2/16 20:21	64
1/2/16 9:31	63	5/2/16 15:31	61	15/2/16 10:01	62	19/2/16 16:31	61	25/2/16 11:01	63	1/2/16 20:26	64
1/2/16 10:01	63	5/2/16 16:01	54	15/2/16 10:31	62	19/2/16 17:01	61	25/2/16 11:31	62	1/2/16 20:31	59
1/2/16 10:31	64	5/2/16 16:31	59	15/2/16 11:01	62	19/2/16 17:31	59	25/2/16 12:01	62	1/2/16 20:36	52
1/2/16 11:01	64	5/2/16 17:01	58	15/2/16 11:31	64	19/2/16 18:01	59	25/2/16 12:31	62	1/2/16 20:41	63
1/2/16 11:31	39	5/2/16 17:31	58	15/2/16 12:01	64	19/2/16 18:31	59	25/2/16 13:01	62	1/2/16 20:46	63
1/2/16 12:01	64	5/2/16 18:01	57	15/2/16 12:31	50	20/2/16 7:01	59	25/2/16 13:31	62	1/2/16 20:51	63
1/2/16 12:31	63	5/2/16 18:31	64	15/2/16 13:01	64	20/2/16 7:31	60	25/2/16 14:01	63	1/2/16 20:56	62
1/2/16 13:01	64	6/2/16 7:01	59	15/2/16 13:31	53	20/2/16 8:01	61	25/2/16 14:31	63	1/2/16 21:01	63
1/2/16 13:31	64	6/2/16 7:31	58	15/2/16 14:01	58	20/2/16 8:31	61	25/2/16 15:01	63	1/2/16 21:06	55
1/2/16 14:01	64	6/2/16 8:01	59	15/2/16 14:31	59	20/2/16 9:01	60	25/2/16 15:31	64	1/2/16 21:11	63
1/2/16 14:31	48	6/2/16 8:31	60	15/2/16 15:01	63	20/2/16 9:31	62	25/2/16 16:01	63	1/2/16 21:16	62
1/2/16 15:01	64	6/2/16 9:01	59	15/2/16 15:31	63	20/2/16 10:01	61	25/2/16 16:31	64	1/2/16 21:21	62
1/2/16 15:31	52	6/2/16 9:31	59	15/2/16 16:01	64	20/2/16 10:31	62	25/2/16 17:01	64	1/2/16 21:26	64
1/2/16 16:01	64	6/2/16 10:01	61	15/2/16 16:31	65	20/2/16 11:01	63	25/2/16 17:31	63	1/2/16 21:31	62
1/2/16 16:31	64	6/2/16 10:31	62	15/2/16 17:01	65	20/2/16 11:31	64	25/2/16 18:01	63	1/2/16 21:36	63
1/2/16 17:01	64	6/2/16 11:01	63	15/2/16 17:31	62	20/2/16 12:01	46	25/2/16 18:31	63	1/2/16 21:41	62
1/2/16 17:31	63	6/2/16 11:31	63	15/2/16 18:01	61	20/2/16 12:31	64	26/2/16 7:01	60	1/2/16 21:46	64
1/2/16 18:01	64	6/2/16 12:01	64	15/2/16 18:31	62	20/2/16 13:01	53	26/2/16 7:31	61	1/2/16 21:51	64
1/2/16 18:31	64	6/2/16 12:31	64	16/2/16 7:01	59	20/2/16 13:31	56	26/2/16 8:01	63	1/2/16 21:56	50
2/2/16 7:01	59	6/2/16 13:01	64	16/2/16 7:31	61	20/2/16 14:01	62	26/2/16 8:31	64	1/2/16 22:01	50
2/2/16 7:31	61	6/2/16 13:31	64	16/2/16 8:01	62	20/2/16 14:31	59	26/2/16 9:01	63	1/2/16 22:06	61
2/2/16 8:01	62	6/2/16 14:01	59	16/2/16 8:31	64	20/2/16 15:01	61	26/2/16 9:31	63	1/2/16 22:11	58
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2/2/16 9:01	62	6/2/16 15:01	58	16/2/16 9:31	62	20/2/16 16:01	65	26/2/16 10:31	62	1/2/16 22:21	62
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2/2/16 10:31	63	6/2/16 16:31	62	16/2/16 11:01	63	20/2/16 17:31	63	26/2/16 12:01	63	1/2/16 22:36	63
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2/2/16 12:31	63	6/2/16 18:31	61	16/2/16 13:01	47	22/2/16 7:31	61	26/2/16 14:01	62	1/2/16 22:56	63
2/2/16 13:01	63	11/2/16 7:01	58	16/2/16 13:31	64	22/2/16 8:01	63	26/2/16 14:31	62	2/2/16 19:01	55
2/2/16 13:31	63	11/2/16 7:31	60	16/2/16 14:01	57	22/2/16 8:31	63	26/2/16 15:01	62	2/2/16 19:06	55
2/2/16 14:01	63	11/2/16 8:01	61	16/2/16 14:31	55	22/2/16 9:01	63	26/2/16 15:31	63	2/2/16 19:11	62
2/2/16 14:31	54	11/2/16 8:31	62	16/2/16 15:01	61	22/2/16 9:31	63	26/2/16 16:01	62	2/2/16 19:16	57
2/2/16 15:01	55	11/2/16 9:01	62	16/2/16 15:31	62	22/2/16 10:01	63	26/2/16 16:31	63	2/2/16 19:21	61
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2/2/16 16:31	64	11/2/16 10:31	63	16/2/16 17:01	63	22/2/16 11:31	63	26/2/16 18:01	62	2/2/16 19:36	56
2/2/16 17:01	56	11/2/16 11:01	64	16/2/16 17:31	62	22/2/16 12:01	63	26/2/16 18:31	62	2/2/16 19:41	56
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2/2/16 18:01	48	11/2/16 12:01	52	16/2/16 18:31	62	22/2/16 13:01	62	27/2/16 7:31	60	2/2/16 19:51	56
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3/2/16 10:01	62	11/2/16 16:01	66	17/2/16 10:31	62	22/2/16 17:01	62	27/2/16 11:31	62	2/2/16 20:31	59
3/2/16 10:31	63	11/2/16 16:31	66	17/2/16 11:01	64	22/2/16 17:31	63	27/2/16 12:01	62	2/2/16 20:36	54
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3/2/16 11:31	63	11/2/16 17:31	64	17/2/16 12:01	63	22/2/16 18:31	62	27/2/16 13:01	62	2/2/16 20:46	57
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3/2/16 13:01	63	12/2/16 7:31	60	17/2/16 13:31	52	23/2/16 8:01	62	27/2/16 14:31	62	2/2/16 21:01	58
3/2/16 13:31	64	12/2/16 8:01	61	17/2/16 14:01	59	23/2/16 8:31	63	27/2/16 15:01	61	2/2/16 21:06	52
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4/2/16 10:31	62	12/2/16 17:01	64	18/2/16 11:31	64	23/2/16 17:31	62	29/2/16 12:01	63	2/2/16 22:36	56
4/2/16 11:01	63	12/2/16 17:31	63	18/2/16 12:01	53	23/2/16 18:01	62	29/2/16 12:31	62	2/2/16 22:41	59

Continuous Noise Monitoring Data ACL3 (City Hall)

3/2/16 21:06	57	5/2/16 22:11	60	7/2/16 11:16	62	7/2/16 20:21	64	8/2/16 13:26	64	8/2/16 22:31	62
3/2/16 21:11	60	5/2/16 22:16	56	7/2/16 11:21	64	7/2/16 20:26	65	8/2/16 13:31	61	8/2/16 22:36	57
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3/2/16 21:21	61	5/2/16 22:26	62	7/2/16 11:31	50	7/2/16 20:36	62	8/2/16 13:41	63	8/2/16 22:46	55
3/2/16 21:26	62	5/2/16 22:31	62	7/2/16 11:36	62	7/2/16 20:41	66	8/2/16 13:46	54	8/2/16 22:51	55
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4/2/16 22:16	58	7/2/16 7:21	55	7/2/16 16:26	66	8/2/16 9:31	62	8/2/16 18:36	66	9/2/16 11:41	63
4/2/16 22:21	55	7/2/16 7:26	57	7/2/16 16:31	66	8/2/16 9:36	63	8/2/16 18:41	62	9/2/16 11:46	63
4/2/16 22:26	61	7/2/16 7:31	57	7/2/16 16:36	66	8/2/16 9:41	60	8/2/16 18:46	63	9/2/16 11:51	63
4/2/16 22:31	60	7/2/16 7:36	57	7/2/16 16:41	67	8/2/16 9:46	61	8/2/16 18:51	64	9/2/16 11:56	64
4/2/16 22:36	55	7/2/16 7:41	57	7/2/16 16:46	68	8/2/16 9:51	56	8/2/16 18:56	62	9/2/16 12:01	62
4/2/16 22:41	58	7/2/16 7:46	56	7/2/16 16:51	66	8/2/16 9:56	67	8/2/16 19:01	61	9/2/16 12:06	63
4/2/16 22:46	54	7/2/16 7:51	57	7/2/16 16:56	65	8/2/16 10:01	69	8/2/16 19:06	64	9/2/16 12:11	62
4/2/16 22:51	58	7/2/16 7:56	58	7/2/16 17:01	66	8/2/16 10:06	72	8/2/16 19:11	64	9/2/16 12:16	63
4/2/16 22:56	64	7/2/16 8:01	58	7/2/16 17:06	65	8/2/16 10:11	69	8/2/16 19:16	61	9/2/16 12:21	56
5/2/16 19:01	60	7/2/16 8:06	61	7/2/16 17:11	64	8/2/16 10:16	66	8/2/16 19:21	63	9/2/16 12:26	63
5/2/16 19:06	58	7/2/16 8:11	57	7/2/16 17:16	66	8/2/16 10:21	66	8/2/16 19:26	63	9/2/16 12:31	64
5/2/16 19:11	60	7/2/16 8:16	59	7/2/16 17:21	67	8/2/16 10:26	63	8/2/16 19:31	61	9/2/16 12:36	63
5/2/16 19:16	60	7/2/16 8:21	57	7/2/16 17:26	66	8/2/16 10:31	68	8/2/16 19:36	65	9/2/16 12:41	55
5/2/16 19:21	59	7/2/16 8:26	57	7/2/16 17:31	67	8/2/16 10:36	68	8/2/16 19:41	63	9/2/16 12:46	63
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5/2/16 19:36	63	7/2/16 8:41	57	7/2/16 17:46	66	8/2/16 10:51	65	8/2/16 19:56	62	9/2/16 13:01	47
5/2/16 19:41	66	7/2/16 8:46	57	7/2/16 17:51	67	8/2/16 10:56	66	8/2/16 20:01	62	9/2/16 13:06	57
5/2/16 19:46	67	7/2/16 8:51	57	7/2/16 17:56	65	8/2/16 11:01	68	8/2/16 20:06	60	9/2/16 13:11	64
5/2/16 19:51	66	7/2/16 8:56	58	7/2/16 18:01	65	8/2/16 11:06	68	8/2/16 20:11	63	9/2/16 13:16	63
5/2/16 19:56	66	7/2/16 9:01	57	7/2/16 18:06	65	8/2/16 11:11	64	8/2/16 20:16	61	9/2/16 13:21	56
5/2/16 20:01	65	7/2									

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9/2/16 15:36	64	10/2/16 8:41	58	10/2/16 17:46	68	11/2/16 22:51	63	14/2/16 7:56	59	14/2/16 17:01	69
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9/2/16 15:46	65	10/2/16 8:51	58	10/2/16 17:56	66	12/2/16 19:01	65	14/2/16 8:06	62	14/2/16 17:11	69
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9/2/16 16:11	65	10/2/16 9:16	58	10/2/16 18:21	66	12/2/16 19:26	65	14/2/16 8:31	62	14/2/16 17:36	69
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9/2/16 16:31	66	10/2/16 9:36	60	10/2/16 18:41	66	12/2/16 19:46	64	14/2/16 8:51	61	14/2/16 17:56	68
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9/2/16 18:21	64	10/2/16 11:26	63	10/2/16 20:31	62	12/2/16 21:36	60	14/2/16 10:41	62	14/2/16 19:46	67
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9/2/16 18:36	65	10/2/16 11:41	66	10/2/16 20:46	63	12/2/16 21:51	63	14/2/16 10:56	63	14/2/16 20:01	68
9/2/16 18:41	66	10/2/16 11:46	60	10/2/16 20:51	62	12/2/16 21:56	57	14/2/16 11:01	63	14/2/16 20:06	67
9/2/16 18:46	65	10/2/16 11:51	58	10/2/16 20:56	65	12/2/16 22:01	62	14/2/16 11:06	62	14/2/16 20:11	67
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9/2/16 18:56	65	10/2/16 12:01	59	10/2/16 21:06	60	12/2/16 22:11	63	14/2/16 11:16	62	14/2/16 20:21	67
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9/2/16 19:26	64	10/2/16 12:31	57	10/2/16 21:36	64	12/2/16 22:41	62	14/2/16 11:46	59	14/2/16 20:51	67
9/2/16 19:31	64	10/2/16 12:36	55	10/2/16 21:41	63	12/2/16 22:46	63	14/2/16 11:51	55	14/2/16 20:56	67
9/2/16 19:36	64	10/2/16 12:41	56	10/2/16 21:46	63	12/2/16 22:51	61	14/2/16 11:56	64	14/2/16 21:01	66
9/2/16 19:41	65	10/2/16 12:46	59	10/2/16 21:51	62	12/2/16 22:56	58	14/2/16 12:01	56	14/2/16 21:06	67
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9/2/16 19:51	66	10/2/16 12:56	54	10/2/16 22:01	60	13/2/16 19:06	63	14/2/16 12:11	55	14/2/16 21:16	66
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9/2/16 20:01	82	10/2/16 13:06	60	10/2/16 22:11	60	13/2/16 19:16	63	14/2/16 12:21	60	14/2/16 21:26	67
9/2/16 20:06	84	10/2/16 13:11	57	10/2/16 22:16	63	13/2/16 19:21	64	14/2/16 12:26	62	14/2/16 21:31	66
9/2/16 20:11	83	10/2/16 13:16	60	10/2/16 22:21	56	13/2/16 19:26	65	14/2/16 12:31	60	14/2/16 21:36	67
9/2/16 20:16	83	10/2/16 13:21	58	10/2/16 22:26	61	13/2/16 19:31	65	14/2/16 12:36	62	14/2/16 21:41	65
9/2/16 20:21	82	10/2/16 13:26	59	10/2/16 22:31	61	13/2/16 19:36	65	14/2/16 12:41	63	14/2/16 21:46	66
9/2/16 20:26	80	10/2/16 13:31	61	10/2/16 22:36	58	13/2/16 19:41	63	14/2/16 12:46	65	14/2/16 21:51	65
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9/2/16 20:36	64	10/2/16 13:41	61	10/2/16 22:46	59	13/2/16 19:51	63	14/2/16 12:56	66	14/2/16 22:01	66
9/2/16 20:41	64	10/2/16 13:46	62	10/2/16 22:51	52	13/2/16 19:56	64	14/2/16 13:01	65	14/2/16 22:06	65
9/2/16 20:46	64	10/2/16 13:51	64	10/2/16 22:56	54	13/2/16 20:01	62	14/2/16 13:06	64	14/2/16 22:11	65
9/2/16 20:51	66	10/2/16 13:56	63	11/2/16 19:01	65	13/2/16 20:06	64	14/2/16 13:11	61	14/2/16 22:16	64
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9/2/16 21:56	65	10/2/16 15:01	68	11/2/16 20:06	64	13/2/16 21:11	63	14/2/16 14:16	67	15/2/16 19:21	64
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9/2/16 22:06	65	10/2/16 15:11	66	11/2/16 20:16	63	13/2/16 21:21	63	14/2/16 14:26	69	15/2/16 19:31	63
9/2/16 22:11	64	10/2/16 15:16	66	11/2/16 20:21	64	13/2/16 21:26	61	14/2/16 14:31	67	15/2/16 19:36	62
9/2/16 22:16	6										

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15/2/16 22:06	63	18/2/16 19:11	62	20/2/16 20:16	65	21/2/16 13:21	72	21/2/16 22:26	64	24/2/16 19:31	62
15/2/16 22:11	58	18/2/16 19:16	63	20/2/16 20:21	65	21/2/16 13:26	72	21/2/16 22:31	65	24/2/16 19:36	61
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16/2/16 19:31	63	18/2/16 20:36	62	20/2/16 21:41	68	21/2/16 14:46	77	22/2/16 19:51	61	24/2/16 20:56	59
16/2/16 19:36	64	18/2/16 20:41	61	20/2/16 21:46	69	21/2/16 14:51	75	22/2/16 19:56	62	24/2/16 21:01	60
16/2/16 19:41	63	18/2/16 20:46	65	20/2/16 21:51	69	21/2/16 14:56	74	22/2/16 20:01	60	24/2/16 21:06	59
16/2/16 19:46	63	18/2/16 20:51	60	20/2/16 21:56	69	21/2/16 15:01	75	22/2/16 20:06	61	24/2/16 21:11	59
16/2/16 19:51	60	18/2/16 20:56	65	20/2/16 22:01	69	21/2/16 15:06	75	22/2/16 20:11	61	24/2/16 21:16	59
16/2/16 19:56	59	18/2/16 21:01	64	20/2/16 22:06	70	21/2/16 15:11	74	22/2/16 20:16	60	24/2/16 21:21	59
16/2/16 20:01	62	18/2/16 21:06	63	20/2/16 22:11	69	21/2/16 15:16	75	22/2/16 20:21	61	24/2/16 21:26	60
16/2/16 20:06	63	18/2/16 21:11	63	20/2/16 22:16	70	21/2/16 15:21	73	22/2/16 20:26	61	24/2/16 21:31	60
16/2/16 20:11	60	18/2/16 21:16	67	20/2/16 22:21	70	21/2/16 15:26	75	22/2/16 20:31	59	24/2/16 21:36	59
16/2/16 20:16	65	18/2/16 21:21	63	20/2/16 22:26	70	21/2/16 15:31	74	22/2/16 20:36	60	24/2/16 21:41	60
16/2/16 20:21	61	18/2/16 21:26	64	20/2/16 22:31	70	21/2/16 15:36	75	22/2/16 20:41	60	24/2/16 21:46	60
16/2/16 20:26	64	18/2/16 21:31	63	20/2/16 22:36	68	21/2/16 15:41	75	22/2/16 20:46	61	24/2/16 21:51	59
16/2/16 20:31	61	18/2/16 21:36	65	20/2/16 22:41	66	21/2/16 15:46	76	22/2/16 20:51	60	24/2/16 21:56	60
16/2/16 20:36	64	18/2/16 21:41	62	20/2/16 22:46	67	21/2/16 15:51	76	22/2/16 20:56	60	24/2/16 22:01	59
16/2/16 20:41	63	18/2/16 21:46	64	20/2/16 22:51	66	21/2/16 15:56	75	22/2/16 21:01	61	24/2/16 22:06	60
16/2/16 20:46	64	18/2/16 21:51	62	20/2/16 22:56	66	21/2/16 16:01	77	22/2/16 21:06	60	24/2/16 22:11	59
16/2/16 20:51	64	18/2/16 21:56	64	21/2/16 7:01	57	21/2/16 16:06	73	22/2/16 21:11	61	24/2/16 22:16	60
16/2/16 20:56	63	18/2/16 22:01	63	21/2/16 7:06	57	21/2/16 16:11	77	22/2/16 21:16	61	24/2/16 22:21	61
16/2/16 21:01	63	18/2/16 22:06	62	21/2/16 7:11	57	21/2/16 16:16	76	22/2/16 21:21	60	24/2/16 22:26	59
16/2/16 21:06	58	18/2/16 22:11	61	21/2/16 7:16	58	21/2/16 16:21	77	22/2/16 21:26	60	24/2/16 22:31	60
16/2/16 21:11	63	18/2/16 22:16	60	21/2/16 7:21	59	21/2/16 16:26	76	22/2/16 21:31	59	24/2/16 22:36	59
16/2/16 21:16	61	18/2/16 22:21	63	21/2/16 7:26	60	21/2/16 16:31	76	22/2/16 21:36	59	24/2/16 22:41	59
16/2/16 21:21	66	18/2/16 22:26	60	21/2/16 7:31	59	21/2/16 16:36	76	22/2/16 21:41	59	24/2/16 22:46	58
16/2/16 21:26	62	18/2/16 22:31	65	21/2/16 7:36	59	21/2/16 16:41	76	22/2/16 21:46	60	24/2/16 22:51	58
16/2/16 21:31	62	18/2/16 22:36	57	21/2/16 7:41	59	21/2/16 16:46	76	22/2/16 21:51	60	24/2/16 22:56	59
16/2/16 21:36	63	18/2/16 22:41	62	21/2/16 7:46	59	21/2/16 16:51	77	22/2/16 21:56	60	25/2/16 19:01	63
16/2/16 21:41	61	18/2/16 22:46	62	21/2/16 7:51	60	21/2/16 16:56	75	22/2/16 22:01	59	25/2/16 19:06	62
16/2/16 21:46	64	18/2/16 22:51	60	21/2/16 7:56	59	21/2/16 17:01	70	22/2/16 22:06	59	25/2/16 19:11	63
16/2/16 21:51	63	18/2/16 22:56	61	21/2/16 8:01	60	21/2/16 17:06	69	22/2/16 22:11	59	25/2/16 19:16	62
16/2/16 21:56	63	19/2/16 19:01	57	21/2/16 8:06	62	21/2/16 17:11	69	22/2/16 22:16	59	25/2/16 19:21	63
16/2/16 22:01	62	19/2/16 19:06	63	21/2/16 8:11	60	21/2/16 17:16	69	22/2/16 22:21	59	25/2/16 19:26	63
16/2/16 22:06	63	19/2/16 19:11	61	21/2/16 8:16	61	21/2/16 17:21	69	22/2/16 22:26	60	25/2/16 19:31	62
16/2/16 22:11	62	19/2/16 19:16	63	21/2/16 8:21	61	21/2/16 17:26	69	22/2/16 22:31	59	25/2/16 19:36	62
16/2/16 22:16	63	19/2/16 19:21	62	21/2/16 8:26	61	21/2/16 17:31	68	22/2/16 22:36	60	25/2/16 19:41	62
16/2/16 22:21	60	19/2/16 19:26	66	21/2/16 8:31	62	21/2/16 17:36	68	22/2/16 22:41	59	25/2/16 19:46	62
16/2/16 22:26	63	19/2/16 19:31	63	21/2/16 8:36	62	21/2/16 17:41	68	22/2/16 22:46	59	25/2/16 19:51	61
16/2/16 22:31	63	19/2/16 19:36	62	21/2/16 8:41	62	21/2/16 17:46	69	22/2/16 22:51	59	25/2/16 19:56	61
16/2/16 22:36	63	19/2/16 19:41	62	21/2/16 8:46	62	21/2/16 17:51	69	22/2/16 22:56	58	25/2/16 20:01	61
16/2/16 22:41	61	19/2/16 19:46	59	21/2/16 8:51	63	21/2/16 17:56	69	23/2/16 19:01	62	25/2/16 20:06	61
16/2/16 22:46	63	19/2/16 19:51	59	21/2/16 8:56	62	21/2/16 18:01	69	23/2/16 19:06	62	25/2/16 20:11	62
16/2/16 22:51	55	19/2/16 19:56	61	21/2/16 9:01	56	21/2/16 18:06	68	23/2/16 19:11	62	25/2/16 20:16	61
16/2/16 22:56	54	19/2/16 20:01	62	21/2/16 9:06	64	21/2/16 18:11	69	23/2/16 19:16	63	25/2/16 20:21	62
17/2/16 19:01	64	19/2/16 20:06	63	21/2/16 9:11	55	21/2/16 18:16	69	23/2/16 19:21	62	25/2/16 20:26	62
17/2/16 19:06	63	19/2/16 20:11	67	21/2/16 9:16	58	21/2/16 18:21	69	23/2/16 19:26	62	25/2/16 20:31	63
17/2/16 19:11	64	19/2/16 20:16	69	21/2/16 9:21	60	21/2/16 18:26	69	23/2/16 19:31	62	25/2/16 20:36	61
17/2/16 19:16	64	19/2/16 20:21	67	21/2/16 9:26	56	21/2/16 18:31	69	23/2/16 19:36	61	25/2/16 20:41	60
17/2/16 19:21	63	19/2/16 20:26	68	21/2/16 9:31	64	21/2/16 18:36	68	23/2/16 19:41	63	25/2/16 20:46	61
17/2/16 19:26	65	19/2/16 20:31	66	21/2/16 9:36	52	21/2/16 18:41	68	23/2/16 19:46	61	25/2/16 20:51	62
17/2/16 19:31	64	19/2/16 20:36	68	21/2/16 9:41	56	21/2/16 18:46	67	23/2/16 19:51	61	25/2/16 20:56	60
17/2/16 19:36	64	19/2/16 20:41	68	21/2/16 9:46	58	21/2/16 18:51	68	23/2/16 19:56	61	25/2/16 21:01	61
17/2/16 19:41	63	19/2/16 20:46	65	21/2/16 9:51	55	21/2/16 18:56	68	23/2/16 20:01	61	25/2/16 21:06	60
17/2/16 19:46	64	19/2/16 20:51	63	21/2/16 9:56	64	21/2/16 19:01	69	23/2/16 20:06	61	25/2/16 21:11	62
17/2/16 19:51	65	19/2/16 20:56	60	21/2/16 10:01	52	21/2/16 19:06	68	23/2/16 20:11	61	25/2/16 21:16	60
17/2/16 19:56	64	19/2/16 21:01	60	21/2/16 10:06	59	21/2/16 19:11	69	23/2/16 20:16	62	25/2/16 21:21	61
17/2/16 20:01	64	19/2/16 21:06	60	21/2/16 10:11	63	21/2/16 19:16	68	23/2/16 20:21	61	25/2/16 21:26	60
17/2/16 20:06	62	19/2/16 21:11	62	21/2/16 10:16	60	21/2/16 19:21	69	23/2/16 20:26	61	25/2/16 21:31	60
17/2/16 20:11	63	19/2/16 21:16	57	21/2/16 10:21	60	21/2/16 19:26	69	23/2/16 20:31	61	25/2/16 21:36	59
17/2/16 20:16	65	19/2/16 21:21	57	21/2/16 10:26	68	21/2/16 19:31	68	23/2/16 20:36	61	25/2/16 21:41	60
17/2/16 20:21	64	19/2/16 21:26	63	21/2/16 10:31	69	21/2/16 19:36	68	23/2/16 20:41	60	25/2/16 21:46	59
17/2/16 20:26	64	19/2/16 21:31	60	21/2/16 10:36	68	21/2/16 19:41	68	23/2/16 20:46	61	25/2/16 21:51	60
17/2/16 20:31	62	19/2/16 21:36	63	21/2/16 10:41	74	21/2/16 19:46	67	23/2/16 20:51	60	25/2/16 21:56	60
17/2/16 20:36	62	19/2/16 21:41	62	21/2/16 10:46	70	21/2/16 19:51	67	23/2/16 20:56	60	25/2/16 22:01	60
17/2/16 20:41	62	19/2/16 21:46	64	21/2/16 10:51	73	21/2/16 19:56					

Continuous Noise Monitoring Data ACL3 (City Hall)

Table with 25 columns showing noise monitoring data for Normal Day 07:00-19:00, Normal Day 19:00-23:00, and Sunday & Holiday 07:00-23:00. Columns include time ranges and corresponding noise levels for each date from 1/3/16 to 3/3/16.

Continuous Noise Monitoring Data

ACL3 (City Hall)

Table with 11 columns and 1000 rows of noise monitoring data. Columns include date and time (e.g., 2/3/16 23:56), a numerical value (e.g., 58), and a location/identifier (e.g., 4/3/16 1:01, 55).

Continuous Noise Monitoring Data		ACL3 (City Hall)	
30/3/16 1:56	56	31/3/16 3:01	56
30/3/16 2:01	57	31/3/16 3:06	56
30/3/16 2:06	57	31/3/16 3:11	55
30/3/16 2:11	56	31/3/16 3:16	55
30/3/16 2:16	57	31/3/16 3:21	55
30/3/16 2:21	56	31/3/16 3:26	55
30/3/16 2:26	55	31/3/16 3:31	55
30/3/16 2:31	56	31/3/16 3:36	55
30/3/16 2:36	55	31/3/16 3:41	55
30/3/16 2:41	56	31/3/16 3:46	56
30/3/16 2:46	56	31/3/16 3:51	55
30/3/16 2:51	56	31/3/16 3:56	55
30/3/16 2:56	56	31/3/16 4:01	55
30/3/16 3:01	58	31/3/16 4:06	55
30/3/16 3:06	59	31/3/16 4:11	56
30/3/16 3:11	57	31/3/16 4:16	55
30/3/16 3:16	57	31/3/16 4:21	55
30/3/16 3:21	55	31/3/16 4:26	55
30/3/16 3:26	55	31/3/16 4:31	55
30/3/16 3:31	55	31/3/16 4:36	56
30/3/16 3:36	55	31/3/16 4:41	55
30/3/16 3:41	55	31/3/16 4:46	55
30/3/16 3:46	55	31/3/16 4:51	56
30/3/16 3:51	55	31/3/16 4:56	55
30/3/16 3:56	56	31/3/16 5:01	55
30/3/16 4:01	56	31/3/16 5:06	55
30/3/16 4:06	56	31/3/16 5:11	56
30/3/16 4:11	56	31/3/16 5:16	56
30/3/16 4:16	57	31/3/16 5:21	57
30/3/16 4:21	56	31/3/16 5:26	56
30/3/16 4:26	56	31/3/16 5:31	58
30/3/16 4:31	57	31/3/16 5:36	56
30/3/16 4:36	56	31/3/16 5:41	56
30/3/16 4:41	55	31/3/16 5:46	56
30/3/16 4:46	55	31/3/16 5:51	57
30/3/16 4:51	56	31/3/16 5:56	57
30/3/16 4:56	55	31/3/16 6:01	58
30/3/16 5:01	57	31/3/16 6:06	57
30/3/16 5:06	56	31/3/16 6:11	58
30/3/16 5:11	56	31/3/16 6:16	57
30/3/16 5:16	55	31/3/16 6:21	58
30/3/16 5:21	56	31/3/16 6:26	68
30/3/16 5:26	55	31/3/16 6:31	59
30/3/16 5:31	56	31/3/16 6:36	58
30/3/16 5:36	57	31/3/16 6:41	59
30/3/16 5:41	56	31/3/16 6:46	62
30/3/16 5:46	56	31/3/16 6:51	59
30/3/16 5:51	57	31/3/16 6:56	58
30/3/16 5:56	57	31/3/16 23:01	54
30/3/16 6:01	57	31/3/16 23:06	59
30/3/16 6:06	58	31/3/16 23:11	59
30/3/16 6:11	57	31/3/16 23:16	59
30/3/16 6:16	57	31/3/16 23:21	63
30/3/16 6:21	57	31/3/16 23:26	57
30/3/16 6:26	57	31/3/16 23:31	57
30/3/16 6:31	59	31/3/16 23:36	57
30/3/16 6:36	59	31/3/16 23:41	56
30/3/16 6:41	58	31/3/16 23:46	56
30/3/16 6:46	59	31/3/16 23:51	56
30/3/16 6:51	60	31/3/16 23:56	56
30/3/16 6:56	59		
30/3/16 23:01	59		
30/3/16 23:06	57		
30/3/16 23:11	57		
30/3/16 23:16	57		
30/3/16 23:21	56		
30/3/16 23:26	56		
30/3/16 23:31	57		
30/3/16 23:36	56		
30/3/16 23:41	56		
30/3/16 23:46	56		
30/3/16 23:51	56		
30/3/16 23:56	58		
31/3/16 0:01	56		
31/3/16 0:06	56		
31/3/16 0:11	55		
31/3/16 0:16	56		
31/3/16 0:21	54		
31/3/16 0:26	55		
31/3/16 0:31	55		
31/3/16 0:36	55		
31/3/16 0:41	54		
31/3/16 0:46	54		
31/3/16 0:51	54		
31/3/16 0:56	56		
31/3/16 1:01	54		
31/3/16 1:06	54		
31/3/16 1:11	54		
31/3/16 1:16	56		
31/3/16 1:21	54		
31/3/16 1:26	55		
31/3/16 1:31	54		
31/3/16 1:36	57		
31/3/16 1:41	55		
31/3/16 1:46	56		
31/3/16 1:51	56		
31/3/16 1:56	55		
31/3/16 2:01	57		
31/3/16 2:06	55		
31/3/16 2:11	57		
31/3/16 2:16	56		
31/3/16 2:21	55		
31/3/16 2:26	57		
31/3/16 2:31	56		
31/3/16 2:36	56		
31/3/16 2:41	55		
31/3/16 2:46	55		
31/3/16 2:51	55		
31/3/16 2:56	55		

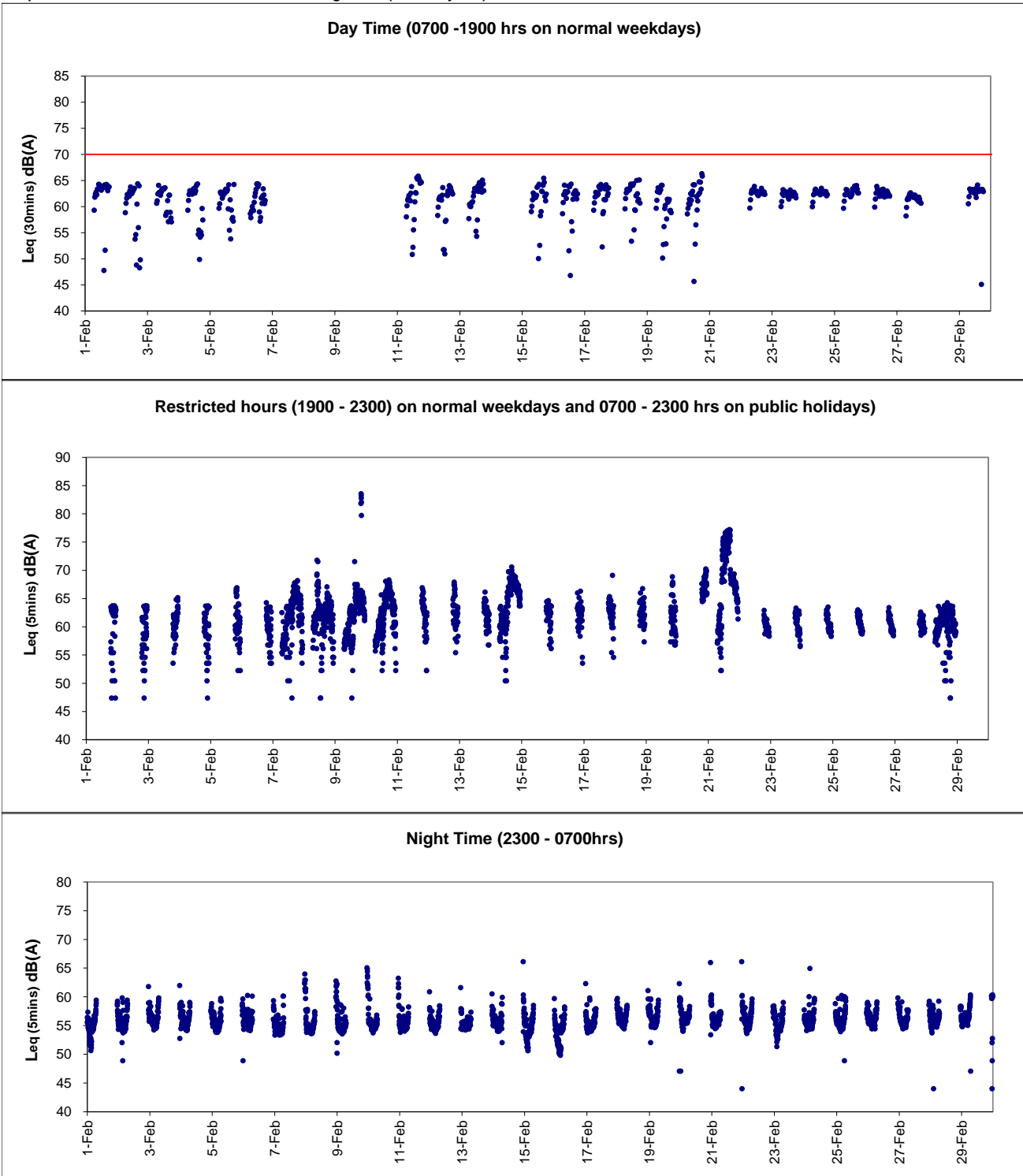
Continuous Noise Monitoring Data ACL3 (City Hall)

Table with 12 columns showing noise monitoring data for ACL3 (City Hall). Each row contains a date and time (e.g., 27/4/16 22:36), a numerical value (e.g., 63), and another date and time (e.g., 30/4/16 19:41), followed by another numerical value (e.g., 63). The data continues until 30/4/16 19:36 with a value of 50.

Continuous Noise Monitoring Data ACL3 (City Hall)

26/4/16 5:26	57	27/4/16 6:31	59	28/4/16 23:36	60	30/4/16 0:41	58
26/4/16 5:31	58	27/4/16 6:36	60	28/4/16 23:41	59	30/4/16 0:46	59
26/4/16 5:36	59	27/4/16 6:41	60	28/4/16 23:46	60	30/4/16 0:51	59
26/4/16 5:41	59	27/4/16 6:46	60	28/4/16 23:51	59	30/4/16 0:56	59
26/4/16 5:46	58	27/4/16 6:51	60	28/4/16 23:56	59	30/4/16 1:01	59
26/4/16 5:51	58	27/4/16 6:56	52	29/4/16 0:01	59	30/4/16 1:06	58
26/4/16 5:56	58	27/4/16 7:01	62	29/4/16 0:06	58	30/4/16 1:11	58
26/4/16 6:01	59	27/4/16 7:06	66	29/4/16 0:11	59	30/4/16 1:16	59
26/4/16 6:06	58	27/4/16 7:11	65	29/4/16 0:16	59	30/4/16 1:21	59
26/4/16 6:11	59	27/4/16 7:16	68	29/4/16 0:21	59	30/4/16 1:26	58
26/4/16 6:16	44	27/4/16 7:21	54	29/4/16 0:26	59	30/4/16 1:31	59
26/4/16 6:21	60	27/4/16 7:26	60	29/4/16 0:31	59	30/4/16 1:36	59
26/4/16 6:26	59	27/4/16 7:31	65	29/4/16 0:36	58	30/4/16 1:41	58
26/4/16 6:31	59	27/4/16 7:36	69	29/4/16 0:41	59	30/4/16 1:46	58
26/4/16 6:36	59	27/4/16 7:41	68	29/4/16 0:46	58	30/4/16 1:51	58
26/4/16 6:41	59	27/4/16 7:46	57	29/4/16 0:51	58	30/4/16 1:56	58
26/4/16 6:46	60	27/4/16 7:51	66	29/4/16 0:56	60	30/4/16 2:01	58
26/4/16 6:51	60	27/4/16 7:56	60	29/4/16 1:01	59	30/4/16 2:06	58
26/4/16 6:56	50	28/4/16 0:01	71	29/4/16 1:06	57	30/4/16 2:11	58
26/4/16 23:01	59	28/4/16 0:06	58	29/4/16 1:11	57	30/4/16 2:16	58
26/4/16 23:06	57	28/4/16 0:11	57	29/4/16 1:16	57	30/4/16 2:21	58
26/4/16 23:11	56	28/4/16 0:16	60	29/4/16 1:21	58	30/4/16 2:26	58
26/4/16 23:16	55	28/4/16 0:21	64	29/4/16 1:26	57	30/4/16 2:31	58
26/4/16 23:21	56	28/4/16 0:26	64	29/4/16 1:31	58	30/4/16 2:36	58
26/4/16 23:26	65	28/4/16 0:31	59	29/4/16 1:36	57	30/4/16 2:41	57
26/4/16 23:31	61	28/4/16 0:36	58	29/4/16 1:41	57	30/4/16 2:46	57
26/4/16 23:36	56	28/4/16 0:41	60	29/4/16 1:46	58	30/4/16 2:51	58
26/4/16 23:41	53	28/4/16 0:46	60	29/4/16 1:51	58	30/4/16 2:56	59
26/4/16 23:46	56	28/4/16 0:51	59	29/4/16 1:56	56	30/4/16 3:01	58
26/4/16 23:51	49	28/4/16 0:56	59	29/4/16 2:01	57	30/4/16 3:06	57
26/4/16 23:56	60	28/4/16 1:01	60	29/4/16 2:06	56	30/4/16 3:11	57
27/4/16 0:01	58	28/4/16 1:06	59	29/4/16 2:11	56	30/4/16 3:16	57
27/4/16 0:06	58	28/4/16 1:11	59	29/4/16 2:16	57	30/4/16 3:21	57
27/4/16 0:11	58	28/4/16 1:16	59	29/4/16 2:21	57	30/4/16 3:26	57
27/4/16 0:16	57	28/4/16 1:21	59	29/4/16 2:26	56	30/4/16 3:31	56
27/4/16 0:21	57	28/4/16 1:26	58	29/4/16 2:31	57	30/4/16 3:36	57
27/4/16 0:26	57	28/4/16 1:31	58	29/4/16 2:36	56	30/4/16 3:41	56
27/4/16 0:31	57	28/4/16 1:36	57	29/4/16 2:41	56	30/4/16 3:46	58
27/4/16 0:36	44	28/4/16 1:41	57	29/4/16 2:46	56	30/4/16 3:51	57
27/4/16 0:41	56	28/4/16 1:46	56	29/4/16 2:51	56	30/4/16 3:56	57
27/4/16 0:46	57	28/4/16 1:51	57	29/4/16 2:56	56	30/4/16 4:01	57
27/4/16 0:51	56	28/4/16 1:56	57	29/4/16 3:01	57	30/4/16 4:06	57
27/4/16 0:56	58	28/4/16 2:01	57	29/4/16 3:06	56	30/4/16 4:11	57
27/4/16 1:01	57	28/4/16 2:06	56	29/4/16 3:11	56	30/4/16 4:16	57
27/4/16 1:06	57	28/4/16 2:11	57	29/4/16 3:16	56	30/4/16 4:21	57
27/4/16 1:11	58	28/4/16 2:16	56	29/4/16 3:21	57	30/4/16 4:26	57
27/4/16 1:16	58	28/4/16 2:21	56	29/4/16 3:26	57	30/4/16 4:31	58
27/4/16 1:21	57	28/4/16 2:26	56	29/4/16 3:31	56	30/4/16 4:36	57
27/4/16 1:26	57	28/4/16 2:31	56	29/4/16 3:36	56	30/4/16 4:41	58
27/4/16 1:31	57	28/4/16 2:36	57	29/4/16 3:41	56	30/4/16 4:46	58
27/4/16 1:36	57	28/4/16 2:41	57	29/4/16 3:46	56	30/4/16 4:51	59
27/4/16 1:41	57	28/4/16 2:46	57	29/4/16 3:51	56	30/4/16 4:56	58
27/4/16 1:46	57	28/4/16 2:51	57	29/4/16 3:56	56	30/4/16 5:01	57
27/4/16 1:51	57	28/4/16 2:56	56	29/4/16 4:01	56	30/4/16 5:06	58
27/4/16 1:56	57	28/4/16 3:01	56	29/4/16 4:06	57	30/4/16 5:11	59
27/4/16 2:01	57	28/4/16 3:06	56	29/4/16 4:11	56	30/4/16 5:16	59
27/4/16 2:06	57	28/4/16 3:11	57	29/4/16 4:16	56	30/4/16 5:21	60
27/4/16 2:11	57	28/4/16 3:16	57	29/4/16 4:21	57	30/4/16 5:26	58
27/4/16 2:16	56	28/4/16 3:21	57	29/4/16 4:26	56	30/4/16 5:31	57
27/4/16 2:21	56	28/4/16 3:26	56	29/4/16 4:31	57	30/4/16 5:36	57
27/4/16 2:26	56	28/4/16 3:31	56	29/4/16 4:36	57	30/4/16 5:41	58
27/4/16 2:31	57	28/4/16 3:36	56	29/4/16 4:41	57	30/4/16 5:46	58
27/4/16 2:36	57	28/4/16 3:41	56	29/4/16 4:46	57	30/4/16 5:51	59
27/4/16 2:41	56	28/4/16 3:46	56	29/4/16 4:51	57	30/4/16 5:56	59
27/4/16 2:46	56	28/4/16 3:51	56	29/4/16 4:56	56	30/4/16 6:01	58
27/4/16 2:51	56	28/4/16 3:56	57	29/4/16 5:01	57	30/4/16 6:06	58
27/4/16 2:56	56	28/4/16 4:01	57	29/4/16 5:06	56	30/4/16 6:11	60
27/4/16 3:01	57	28/4/16 4:06	57	29/4/16 5:11	57	30/4/16 6:16	58
27/4/16 3:06	57	28/4/16 4:11	57	29/4/16 5:16	57	30/4/16 6:21	58
27/4/16 3:11	57	28/4/16 4:16	57	29/4/16 5:21	57	30/4/16 6:26	59
27/4/16 3:16	57	28/4/16 4:21	58	29/4/16 5:26	57	30/4/16 6:31	59
27/4/16 3:21	57	28/4/16 4:26	58	29/4/16 5:31	57	30/4/16 6:36	59
27/4/16 3:26	56	28/4/16 4:31	57	29/4/16 5:36	57	30/4/16 6:41	59
27/4/16 3:31	57	28/4/16 4:36	56	29/4/16 5:41	58	30/4/16 6:46	58
27/4/16 3:36	57	28/4/16 4:41	56	29/4/16 5:46	58	30/4/16 6:51	59
27/4/16 3:41	57	28/4/16 4:46	57	29/4/16 5:51	59	30/4/16 6:56	59
27/4/16 3:46	56	28/4/16 4:51	57	29/4/16 5:56	58	30/4/16 23:01	47
27/4/16 3:51	57	28/4/16 4:56	57	29/4/16 6:01	58	30/4/16 23:06	60
27/4/16 3:56	57	28/4/16 5:01	57	29/4/16 6:06	58	30/4/16 23:11	59
27/4/16 4:01	56	28/4/16 5:06	58	29/4/16 6:11	58	30/4/16 23:16	59
27/4/16 4:06	57	28/4/16 5:11	57	29/4/16 6:16	58	30/4/16 23:21	59
27/4/16 4:11	57	28/4/16 5:16	58	29/4/16 6:21	58	30/4/16 23:26	59
27/4/16 4:16	57	28/4/16 5:21	58	29/4/16 6:26	50	30/4/16 23:31	59
27/4/16 4:21	58	28/4/16 5:26	58	29/4/16 6:31	56	30/4/16 23:36	59
27/4/16 4:26	57	28/4/16 5:31	58	29/4/16 6:36	60	30/4/16 23:41	58
27/4/16 4:31	57	28/4/16 5:36	58	29/4/16 6:41	60	30/4/16 23:46	58
27/4/16 4:36	57	28/4/16 5:41	58	29/4/16 6:46	60	30/4/16 23:51	59
27/4/16 4:41	57	28/4/16 5:46	44	29/4/16 6:51	53	30/4/16 23:56	58
27/4/16 4:46	57	28/4/16 5:51	59	29/4/16 6:56	60		
27/4/16 4:51	57	28/4/16 5:56	58	29/4/16 23:01	78		
27/4/16 4:56	57	28/4/16 6:01	59	29/4/16 23:06	74		
27/4/16 5:01	58	28/4/16 6:06	59	29/4/16 23:11	73		
27/4/16 5:06	57	28/4/16 6:11	59	29/4/16 23:16	74		
27/4/16 5:11	57	28/4/16 6:16	59	29/4/16 23:21	74		
27/4/16 5:16	57	28/4/16 6:21	60	29/4/16 23:26	60		
27/4/16 5:21	58	28/4/16 6:26	60	29/4/16 23:31	47		
27/4/16 5:26	57	28/4/16 6:31	47	29/4/16 23:36	44		
27/4/16 5:31	58	28/4/16 6:36	60	29/4/16 23:41	60		
27/4/16 5:36	57	28/4/16 6:41	60	29/4/16 23:46	60		
27/4/16 5:41	60	28/4/16 6:46	59	29/4/16 23:51	60		
27/4/16 5:46	58	28/4/16 6:51	60	29/4/16 23:56	59		
27/4/16 5:51	58	28/4/16 6:56	60	30/4/16 0:01	49		
27/4/16 5:56	58	28/4/16 23:01	54	30/4/16 0:06	59		
27/4/16 6:01	58	28/4/16 23:06	49	30/4/16 0:11	59		
27/4/16 6:06	59	28/4/16 23:11	49	30/4/16 0:16	60		
27/4/16 6:11	59	28/4/16 23:16	50	30/4/16 0:21	59		
27/4/16 6:16	59	28/4/16 23:21	50	30/4/16 0:26	58		
27/4/16 6:21	60	28/4/16 23:26	60	30/4/16 0:31	58		
27/4/16 6:26	59	28/4/16 23:31	60	30/4/16 0:36	59		

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

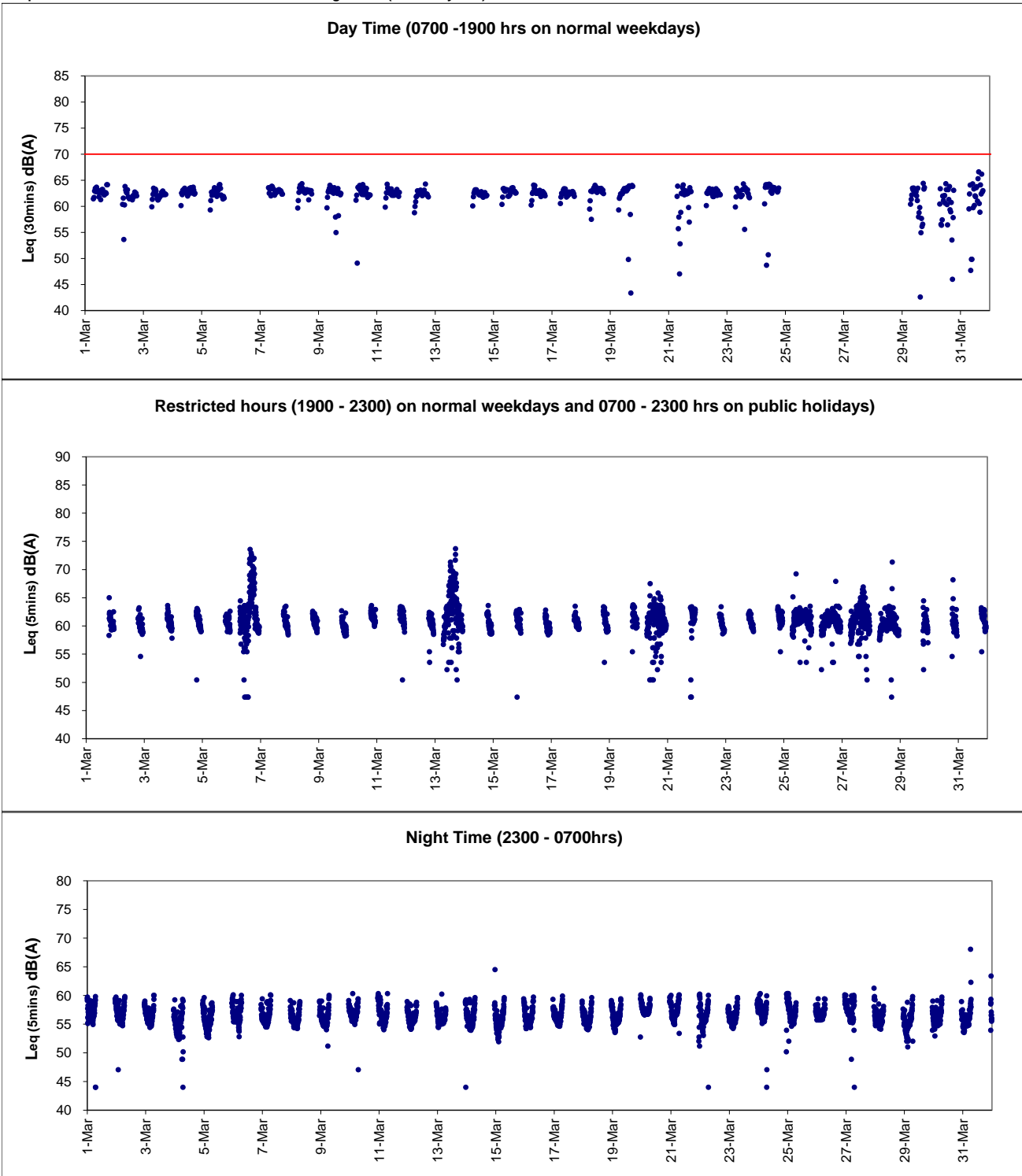


The construction work during the reporting period include, structural works for tunnel construction, roadworks, drainage works and P1 Road Landscaping Works.

The weather condition during monitoring ranges from mostly sunny to cloudy with occasionally rain.

In addition, there were public events and public gathering at the area opposite and near monitoring station on weekends and public holidays which may contribute to surrounding environmental noise.

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

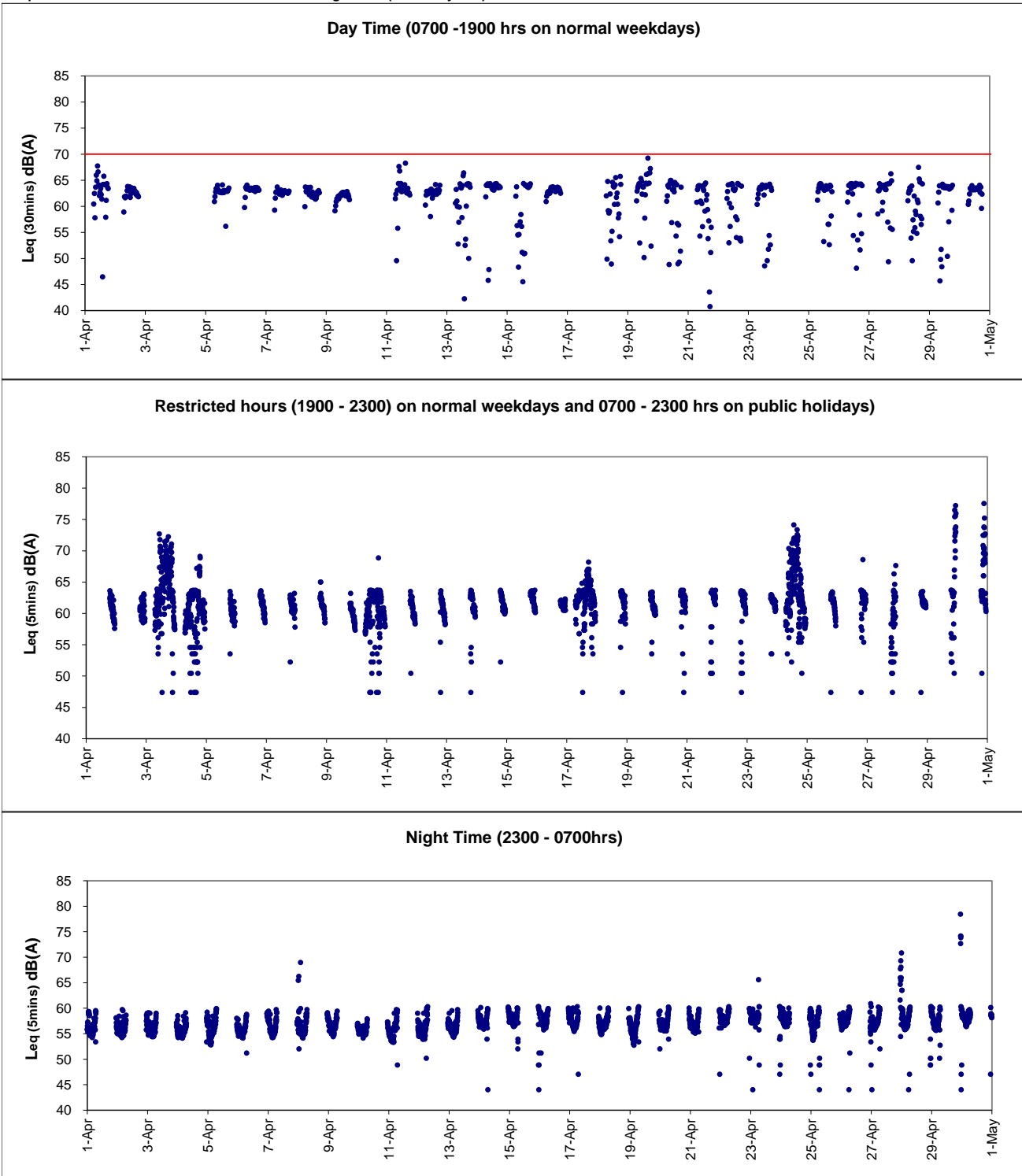


The construction work during the reporting period include, structural works for tunnel construction, roadworks, drainage works, seawall modification, removal of bulk head wall and landscaping establishment works.

The weather condition during monitoring ranges from mostly sunny to cloudy with occasionally rain.

In addition, there were public events and public gathering at the area opposite and near monitoring station on weekends and public holidays which may contribute to surrounding environmental noise.

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



The construction work during the reporting period include, structural works for tunnel construction, roadworks, drainage works and landscaping establishment work.

The weather condition during monitoring ranges from mostly sunny to cloudy with occasionally rain.

In addition, there were public events and public gathering at the area opposite and near monitoring station on weekends and public holidays which may contribute to surrounding environmental noise.



Appendix 4.2

Air Quality Monitoring Graphical Presentations



Location: ACL1 - City Hall

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 163

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Feb-16	8:00	Cloudy	014439	2.8024	2.8396	22535.91	22559.91	24.00	1.34	1.35	1.34	1935	19.2
5-Feb-16	8:00	Fine	013704	2.8090	2.9302	22562.91	22586.91	24.00	1.34	1.34	1.34	1926	62.9
11-Feb-16	8:00	Fine	014643	2.7993	2.9779	22589.91	22613.91	24.00	1.33	1.32	1.32	1908	93.6
17-Feb-16	8:00	Rainy	014631	2.7812	2.8398	22616.91	22640.91	24.00	1.34	1.34	1.34	1928	30.4
23-Feb-16	8:00	Cloudy	014743	2.8109	2.8657	22643.91	22667.91	24.00	1.34	1.34	1.34	1927	28.4
29-Feb-16	8:00	Fine	014690	2.8276	2.9929	22670.92	22694.92	24.00	1.33	1.33	1.33	1918	86.2

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 460

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
2-Feb-16	8:15	Cloudy	014436	2.8027	2.8051	22559.91	22560.91	1.00	1.35	1.35	1.35	81	29.7
2-Feb-16	9:18	Cloudy	014433	2.7844	2.7874	22560.91	22561.91	1.00	1.35	1.35	1.35	81	37.1
2-Feb-16	10:23	Cloudy	014430	2.7886	2.7920	22561.91	22562.91	1.00	1.35	1.35	1.35	81	42.1
6-Feb-16	8:11	Fine	014426	2.7798	2.7833	22586.91	22587.91	1.00	1.34	1.34	1.34	80	43.6
6-Feb-16	9:17	Fine	014423	2.7924	2.7963	22587.91	22588.91	1.00	1.34	1.34	1.34	80	48.5
6-Feb-16	10:21	Fine	014646	2.8291	2.8336	22588.91	22589.91	1.00	1.34	1.34	1.34	80	56.0
12-Feb-16	8:15	Fine	014640	2.8281	2.8382	22613.91	22614.91	1.00	1.32	1.32	1.32	79	127.1
12-Feb-16	9:18	Fine	014637	2.7929	2.8001	22614.91	22615.91	1.00	1.32	1.32	1.32	79	90.6
12-Feb-16	10:30	Fine	014634	2.7913	2.7941	22615.91	22616.91	1.00	1.32	1.32	1.32	79	35.2
18-Feb-16	8:15	Rainy	014628	2.8027	2.8038	22640.91	22641.91	1.00	1.34	1.34	1.34	80	13.7
18-Feb-16	9:18	Rainy	014750	2.8358	2.8378	22641.91	22642.91	1.00	1.34	1.34	1.34	80	24.9
18-Feb-16	10:29	Rainy	014747	2.8159	2.8180	22642.91	22643.91	1.00	1.34	1.34	1.34	80	26.2
24-Feb-16	8:10	Cloudy	014741	2.8319	2.8334	22667.92	22668.92	1.00	1.34	1.34	1.34	80	18.6
24-Feb-16	9:14	Cloudy	014738	2.8162	2.8175	22668.92	22669.92	1.00	1.34	1.34	1.34	80	16.2
24-Feb-16	10:19	Cloudy	014693	2.8172	2.8189	22669.92	22670.92	1.00	1.34	1.34	1.34	80	21.1
1-Mar-16	8:10	Fine	014825	2.8129	2.8206	22694.92	22695.92	1.00	1.33	1.33	1.33	80	96.2
1-Mar-16	9:17	Fine	014822	2.8040	2.8114	22695.92	22696.92	1.00	1.33	1.33	1.33	80	92.4
1-Mar-16	10:19	Fine	014819	2.7931	2.8034	22696.92	22697.92	1.00	1.33	1.33	1.33	80	128.7



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

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 187.3

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Feb-16	8:00	Cloudy	014559	2.8343	2.9186	4862.97	4886.97	24.00	1.14	1.14	1.14	1642	51.3
5-Feb-16	8:00	Fine	013703	2.8026	2.9525	4890.21	4914.21	24.00	1.00	1.01	1.01	1449	103.4
11-Feb-16	8:00	Fine	014540	2.8381	3.0064	4917.21	4941.21	24.00	1.12	1.12	1.12	1609	104.6
17-Feb-16	8:00	Rainy	014654	2.7937	2.9300	4944.21	4968.21	24.00	1.14	1.13	1.13	1634	83.4
23-Feb-16	8:00	Cloudy	014687	2.8138	2.8930	4971.22	4995.22	24.00	1.13	1.14	1.13	1633	48.5
29-Feb-16	8:00	Fine	014751	2.8144	3.0783	4998.22	5022.22	24.00	1.12	1.13	1.13	1622	162.7

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 300.1

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
2-Feb-16	9:25	Cloudy	013331	2.8142	2.8199	4886.97	4887.97	1.00	1.02	1.02	1.02	61	93.5
2-Feb-16	10:42	Cloudy	014550	2.8579	2.8610	4888.21	4889.21	1.00	1.02	1.02	1.02	61	50.9
2-Feb-16	13:00	Cloudy	014164	2.8022	2.8077	4889.21	4890.21	1.00	1.14	1.14	1.14	69	80.2
6-Feb-16	8:35	Fine	014678	2.8248	2.8310	4914.21	4915.21	1.00	1.14	1.14	1.14	68	91.0
6-Feb-16	9:48	Fine	014674	2.8342	2.8388	4915.21	4916.21	1.00	1.01	1.01	1.01	61	76.0
6-Feb-16	10:51	Fine	014670	2.8509	2.8586	4916.21	4917.21	1.00	1.01	1.01	1.01	61	127.2
12-Feb-16	8:05	Fine	014685	2.7899	2.8011	4941.21	4942.21	1.00	1.12	1.12	1.12	67	167.1
12-Feb-16	9:33	Fine	014680	2.8121	2.8239	4942.21	4943.21	1.00	1.05	1.05	1.05	63	186.5
12-Feb-16	10:36	Fine	014659	2.8211	2.8290	4943.21	4944.21	1.00	1.12	1.12	1.12	67	117.9
18-Feb-16	8:10	Rainy	014726	2.7798	2.7838	4968.21	4969.21	1.00	1.07	1.07	1.07	64	62.3
18-Feb-16	9:26	Rainy	014730	2.7966	2.8004	4969.21	4970.21	1.00	1.07	1.07	1.07	64	59.2
18-Feb-16	10:35	Rainy	014734	2.8297	2.8336	4970.21	4971.21	1.00	1.07	1.07	1.07	64	60.7
24-Feb-16	8:18	Cloudy	014719	2.8091	2.8123	4995.22	4996.22	1.00	1.14	1.14	1.14	68	46.9
24-Feb-16	9:46	Cloudy	014723	2.8088	2.8122	4996.22	4997.22	1.00	1.14	1.14	1.14	68	49.8
24-Feb-16	10:57	Cloudy	014697	2.8256	2.8319	4997.22	4998.22	1.00	1.14	1.14	1.14	68	92.3
1-Mar-16	8:11	Fine	014704	2.8177	2.8285	5022.22	5023.22	1.00	1.13	1.13	1.13	68	159.5
1-Mar-16	9:53	Fine	014707	2.8290	2.8366	5023.22	5024.22	1.00	1.13	1.13	1.13	68	112.2
1-Mar-16	11:00	Fine	014810	2.8254	2.8377	5024.22	5025.22	1.00	1.13	1.13	1.13	68	181.6



Location: ACL1 - City Hall

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 163

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
5-Mar-16	8:00	Cloudy	014816	2.7880	2.9470	22697.92	22721.92	24.00	1.32	1.32	1.32	1903	83.5
11-Mar-16	8:00	Cloudy	013937	2.8142	2.8751	22724.92	22748.92	24.00	1.34	1.34	1.34	1928	31.6
17-Mar-16	8:00	Cloudy	014932	2.7804	2.8810	22751.92	22775.92	24.00	1.33	1.32	1.33	1910	52.7
23-Mar-16	8:00	Rainy	013924	2.8074	2.9366	22779.92	22803.92	24.00	1.17	1.18	1.18	1696	76.2
29-Mar-16	8:00	Cloudy	014979	2.8097	3.0666	0.25	24.25	24.00	1.20	1.20	1.20	1729	148.6

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 460

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
7-Mar-16	8:15	Cloudy	014120	2.8012	2.8112	22721.92	22722.92	1.00	1.32	1.32	1.32	79	125.9
7-Mar-16	9:18	Cloudy	013943	2.8270	2.8357	22722.92	22723.92	1.00	1.32	1.32	1.32	79	109.5
7-Mar-16	10:21	Cloudy	013940	2.8181	2.8301	22723.92	22724.92	1.00	1.32	1.32	1.32	79	151.1
12-Mar-16	8:05	Cloudy	013947	2.8103	2.8136	22748.92	22749.92	1.00	1.34	1.34	1.34	80	41.2
12-Mar-16	9:30	Cloudy	014793	2.8328	2.8343	22749.92	22750.92	1.00	1.34	1.34	1.34	80	18.7
12-Mar-16	11:00	Cloudy	014950	2.7925	2.7992	22750.92	22751.92	1.00	1.34	1.34	1.34	80	83.6
18-Mar-16	8:05	Cloudy	013934	2.8219	2.8298	22775.92	22776.92	1.00	1.32	1.32	1.32	79	99.5
18-Mar-16	9:11	Cloudy	013931	2.8013	2.8054	22776.92	22777.92	1.00	1.32	1.32	1.32	79	51.7
18-Mar-16	10:19	Cloudy	013928	2.8262	2.8303	22778.92	22779.92	1.00	1.32	1.32	1.32	79	51.7
24-Mar-16	8:15	Rainy	014997	2.8075	2.8129	22803.92	22804.92	1.00	1.18	1.18	1.18	71	76.1
24-Mar-16	9:18	Rainy	014985	2.8074	2.8110	22804.92	22805.92	1.00	1.18	1.18	1.18	71	50.7
24-Mar-16	10:22	Rainy	014982	2.7947	2.7977	22805.92	22806.92	1.00	1.18	1.18	1.18	71	42.3
30-Mar-16	8:15	Cloudy	014976	2.8018	2.8209	24.26	25.26	1.00	1.20	1.20	1.20	72	265.8
30-Mar-16	9:17	Cloudy	014973	2.7986	2.8206	25.26	26.26	1.00	1.20	1.20	1.20	72	306.2
30-Mar-16	10:19	Cloudy	014865	2.8371	2.8527	26.26	27.26	1.00	1.20	1.20	1.20	72	217.1



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

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 187.3

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
5-Mar-16	8:00	Cloudy	014786	2.8169	3.0175	5025.22	5049.22	24.00	0.99	0.99	0.99	1425	140.8
11-Mar-16	8:00	Cloudy	013951	2.8275	2.9037	5052.22	5076.22	24.00	1.14	1.13	1.13	1634	46.6
17-Mar-16	8:00	Cloudy	014933	2.7875	2.8912	5079.23	5103.23	24.00	1.06	1.05	1.06	1521	68.2
23-Mar-16	8:00	Rainy	014904	2.8052	2.8923	5106.23	5130.23	24.00	1.03	1.04	1.03	1484	58.7
29-Mar-16	8:00	Cloudy	014998	2.8027	3.0505	5133.22	5157.22	24.00	1.14	1.13	1.14	1636	151.5

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 300.1

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
7-Mar-16	8:27	Cloudy	014791	2.8170	2.8236	5049.22	5050.22	1.00	0.99	0.99	0.99	59	111.0
7-Mar-16	9:42	Cloudy	014785	2.8016	2.8121	5050.22	5051.22	1.00	1.12	1.12	1.12	67	156.8
7-Mar-16	10:55	Cloudy	013967	2.8290	2.8373	5051.22	5052.22	1.00	1.12	1.12	1.12	67	123.9
12-Mar-16	8:34	Cloudy	013971	2.8269	2.8305	5076.23	5077.23	1.00	1.13	1.13	1.13	68	53.1
12-Mar-16	10:06	Cloudy	014778	2.8292	2.8339	5077.23	5078.23	1.00	1.07	1.07	1.07	64	73.4
12-Mar-16	13:00	Cloudy	014956	2.7804	2.7870	5078.23	5079.23	1.00	1.00	1.00	1.00	60	109.5
18-Mar-16	8:34	Cloudy	014996	2.8100	2.8195	5103.23	5104.23	1.00	1.12	1.12	1.12	67	142.0
18-Mar-16	10:06	Cloudy	014992	2.8182	2.8265	5104.23	5105.23	1.00	1.05	1.05	1.05	63	131.4
18-Mar-16	13:00	Cloudy	014988	2.7991	2.8154	5105.23	5106.23	1.00	0.99	0.99	0.99	59	274.3
24-Mar-16	8:25	Rainy	014898	2.8382	2.8421	5130.23	5131.23	1.00	1.04	1.04	1.04	62	62.8
24-Mar-16	10:00	Rainy	014893	2.8356	2.8374	5131.23	5132.23	1.00	1.04	1.04	1.04	62	29.0
24-Mar-16	13:00	Rainy	014889	2.8286	2.8313	5132.23	5133.23	1.00	1.04	1.04	1.04	62	43.5
30-Mar-16	9:07	Cloudy	015057	2.7542	2.7679	5157.22	5158.22	1.00	1.13	1.13	1.13	68	201.5
30-Mar-16	10:35	Cloudy	015052	2.7674	2.7803	5158.22	5159.22	1.00	1.13	1.13	1.13	68	189.7
30-Mar-16	13:00	Cloudy	015047	2.7563	2.7709	5159.22	5160.22	1.00	1.13	1.13	1.13	68	214.7



Location: ACL1 - City Hall

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 163

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Apr-16	8:00	Cloudy	014862	2.8346	3.0265	27.25	51.25	24.00	1.22	1.22	1.22	1758	109.1
7-Apr-16	8:00	Cloudy	014967	2.8012	2.8810	54.25	78.25	24.00	1.19	1.19	1.19	1708	46.7
13-Apr-16	8:00	Rainy	015109	2.7715	2.8335	81.25	105.25	24.00	1.21	1.21	1.21	1749	35.5
19-Apr-16	8:00	Cloudy	015142	2.8051	2.9351	108.25	132.25	24.00	1.22	1.22	1.22	1759	73.9
25-Apr-16	8:00	Rainy	015239	2.8000	2.8805	135.25	159.25	24.00	1.18	1.18	1.18	1701	47.3
28-Apr-16	8:00	Cloudy	015380	2.8493	2.9960	162.25	186.25	24.00	1.18	1.19	1.18	1706	86.0

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 460

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
2-Apr-16	8:11	Cloudy	015061	2.7677	2.7807	51.25	52.25	1.00	1.22	1.22	1.22	73	177.3
2-Apr-16	9:17	Cloudy	015084	2.7732	2.7863	52.25	53.25	1.00	1.22	1.22	1.22	73	178.6
2-Apr-16	10:19	Cloudy	014970	2.8236	2.8312	53.25	54.25	1.00	1.22	1.22	1.22	73	103.6
8-Apr-16	8:45	Cloudy	015116	2.7765	2.7807	78.25	79.25	1.00	1.19	1.19	1.19	71	59.0
8-Apr-16	9:48	Cloudy	015115	2.8033	2.8090	79.25	80.25	1.00	1.19	1.19	1.19	71	80.1
8-Apr-16	10:58	Cloudy	015112	2.7592	2.7644	80.25	81.25	1.00	1.19	1.19	1.19	71	73.1
14-Apr-16	8:05	Cloudy	015167	2.8416	2.8445	105.25	106.25	1.00	1.21	1.21	1.21	73	39.8
14-Apr-16	9:17	Cloudy	015148	2.8035	2.8090	106.25	107.25	1.00	1.21	1.21	1.21	73	75.5
14-Apr-16	10:19	Cloudy	015145	2.8034	2.8124	107.25	108.25	1.00	1.21	1.21	1.21	73	123.5
20-Apr-16	8:15	Cloudy	015165	2.8261	2.8316	132.25	133.25	1.00	1.22	1.22	1.22	73	75.1
20-Apr-16	9:17	Cloudy	015245	2.8198	2.8288	133.25	134.25	1.00	1.22	1.22	1.22	73	123.0
20-Apr-16	10:19	Cloudy	015242	2.8217	2.8300	134.25	135.25	1.00	1.22	1.22	1.22	73	113.4
26-Apr-16	8:10	Cloudy	015236	2.8185	2.8216	159.25	160.25	1.00	1.18	1.18	1.18	71	43.8
26-Apr-16	9:17	Cloudy	015233	2.8285	2.8324	160.25	161.25	1.00	1.18	1.18	1.18	71	55.1
26-Apr-16	10:19	Cloudy	015230	2.8268	2.8290	161.25	162.25	1.00	1.18	1.18	1.18	71	31.1
29-Apr-16	8:15	Cloudy	015377	2.8482	2.8495	186.25	187.25	1.00	1.19	1.19	1.19	71	18.2
29-Apr-16	9:17	Cloudy	015343	2.8270	2.8338	187.25	188.25	1.00	1.19	1.19	1.19	71	95.4
29-Apr-16	10:19	Cloudy	015340	2.8325	2.8369	188.25	189.25	1.00	1.19	1.19	1.19	71	61.7



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

Report on 24-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 187.3
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

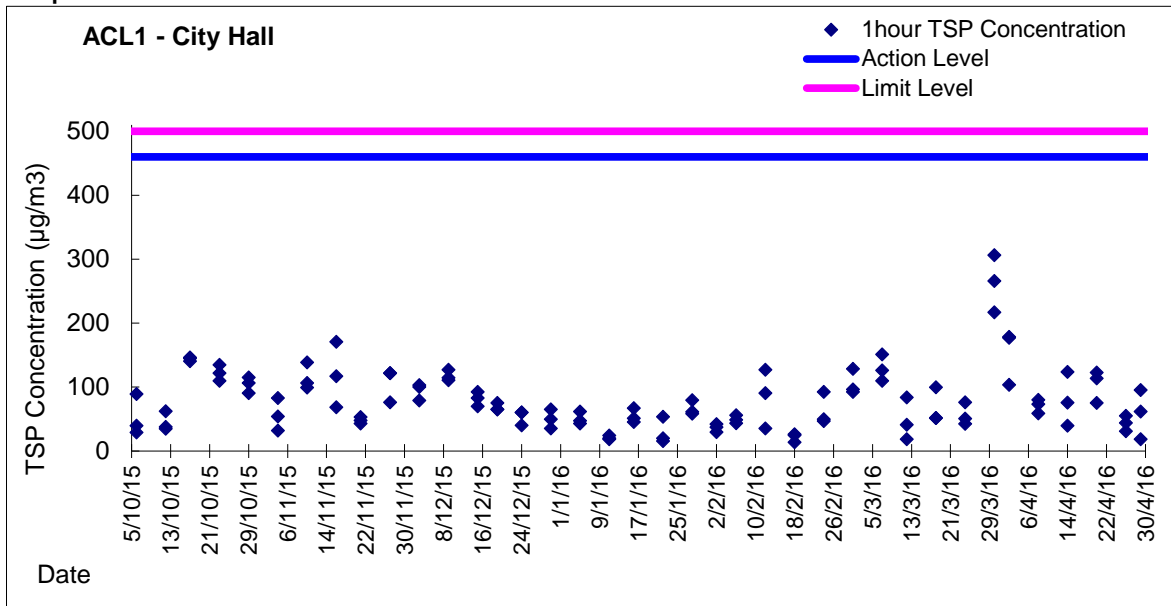
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Apr-16	8:00	Cloudy	015042	2.7703	2.9480	5160.22	5184.22	24.00	1.05	1.05	1.05	1510	117.6
7-Apr-16	8:00	Cloudy	015140	2.8022	2.9443	5187.22	5211.22	24.00	1.12	1.12	1.12	1616	87.9
13-Apr-16	8:00	Rainy	015121	2.8193	2.9056	5214.22	5238.22	24.00	1.10	1.10	1.10	1579	54.7
20-Apr-16	14:44	Cloudy	015297	2.8229	2.9986	5267.73	5291.73	24.00	1.15	1.15	1.15	1658	106.0
25-Apr-16	8:00	Rainy	014725	2.8023	2.8822	5291.73	5315.73	24.00	1.07	1.06	1.06	1533	52.1
29-Apr-16	18:00	Cloudy	015356	2.8307	2.9970	5334.79	5358.79	24.00	1.02	1.02	1.02	1466	113.5

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 19 and 28 April 2016 to 20 and 29 April 2016 respectively.

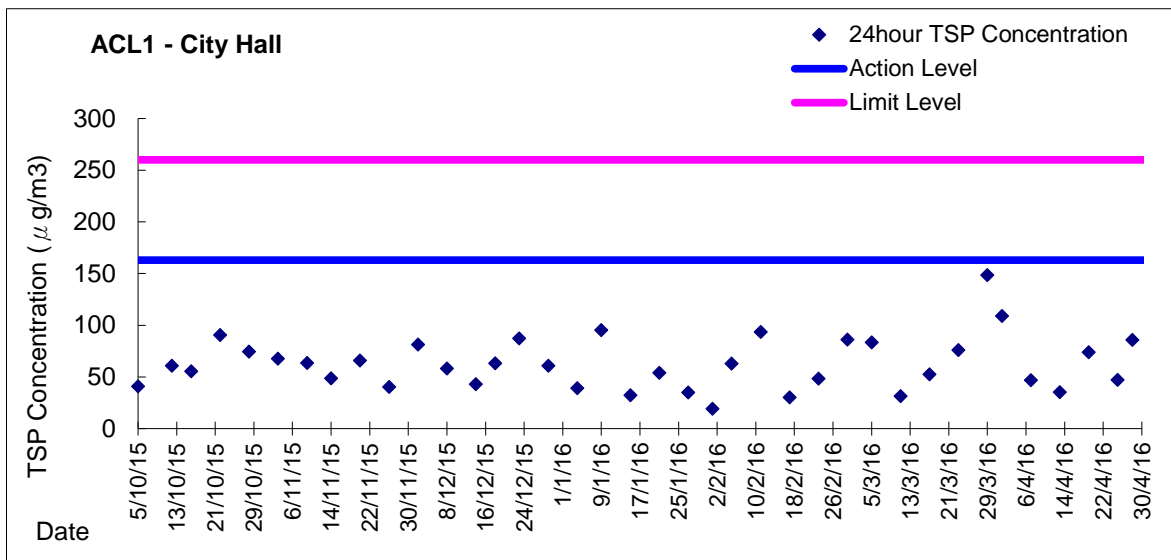
Report on 1-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 300.1
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
2-Apr-16	8:21	Cloudy	015037	2.7435	2.7524	5184.22	5185.22	1.00	1.16	1.16	1.16	69	128.2
2-Apr-16	9:37	Cloudy	014920	2.7996	2.8079	5185.22	5186.22	1.00	1.08	1.08	1.08	65	128.5
2-Apr-16	10:41	Cloudy	015136	2.8089	2.8194	5186.22	5187.22	1.00	1.16	1.16	1.16	69	151.3
8-Apr-16	8:36	Cloudy	015100	2.7688	2.7765	5211.22	5212.22	1.00	1.12	1.12	1.12	67	114.4
8-Apr-16	10:02	Cloudy	015096	2.7682	2.7775	5212.22	5213.22	1.00	1.12	1.12	1.12	67	138.2
8-Apr-16	13:00	Cloudy	015091	2.7817	2.7869	5213.22	5214.22	1.00	1.12	1.12	1.12	67	77.3
14-Apr-16	8:53	Cloudy	014648	2.8346	2.8398	5238.22	5239.22	1.00	1.02	1.02	1.02	61	85.2
14-Apr-16	10:27	Cloudy	015277	2.8506	2.8556	5239.22	5240.22	1.00	1.12	1.12	1.12	67	74.2
14-Apr-16	13:00	Cloudy	015274	2.8374	2.8429	5240.22	5241.22	1.00	1.07	1.07	1.07	64	85.7
20-Apr-16	8:20	Cloudy	015262	2.8351	2.8412	5264.73	5265.73	1.00	1.13	1.13	1.13	68	90.1
20-Apr-16	9:57	Cloudy	015289	2.8174	2.8244	5265.73	5266.73	1.00	1.02	1.02	1.02	61	114.2
20-Apr-16	13:00	Cloudy	015293	2.8087	2.8155	5266.73	5267.73	1.00	1.07	1.07	1.07	64	105.5
26-Apr-16	8:36	Cloudy	015441	2.8517	2.8530	5315.73	5316.73	1.00	1.06	1.06	1.06	64	20.4
26-Apr-16	10:23	Cloudy	015437	2.8332	2.8353	5316.73	5317.73	1.00	1.12	1.12	1.12	67	31.4
26-Apr-16	13:00	Cloudy	015432	2.8502	2.8512	5317.73	5318.73	1.00	1.06	1.06	1.06	64	15.7
29-Apr-16	8:43	Cloudy	015420	2.8575	2.8678	5331.79	5332.79	1.00	1.02	1.02	1.02	61	168.7
29-Apr-16	13:00	Cloudy	015428	2.8568	2.8633	5332.79	5333.79	1.00	1.02	1.02	1.02	61	106.5
29-Apr-16	14:41	Cloudy	015346	2.8292	2.8330	5333.79	5334.79	1.00	1.12	1.12	1.12	67	56.4

Graphic Presentation of 1 hour TSP Result



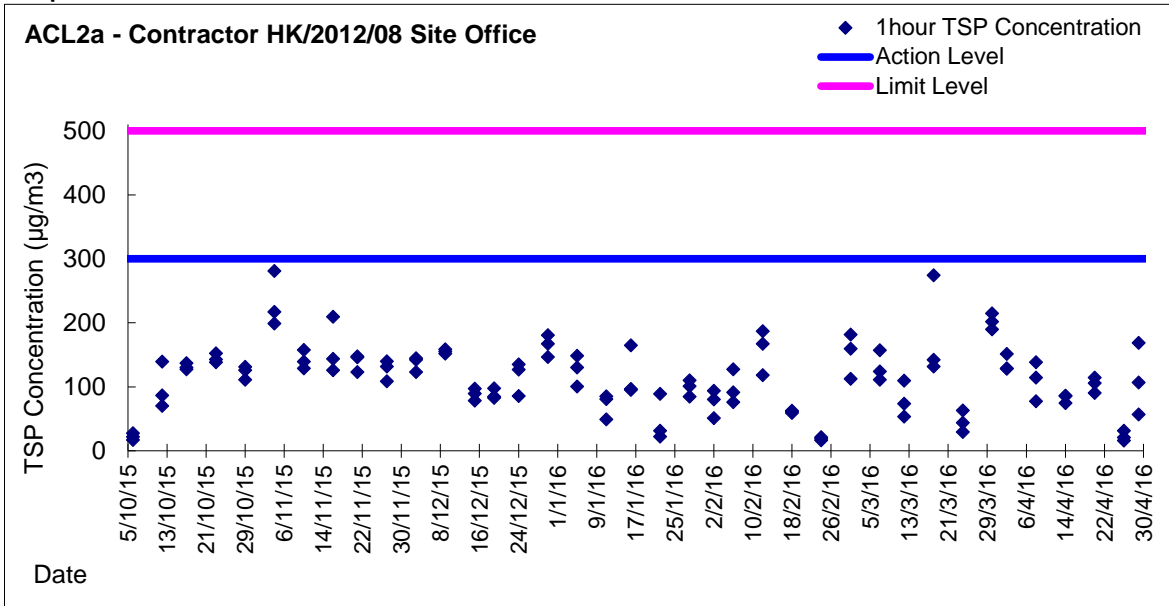
Graphic Presentation of 24 hour TSP Result



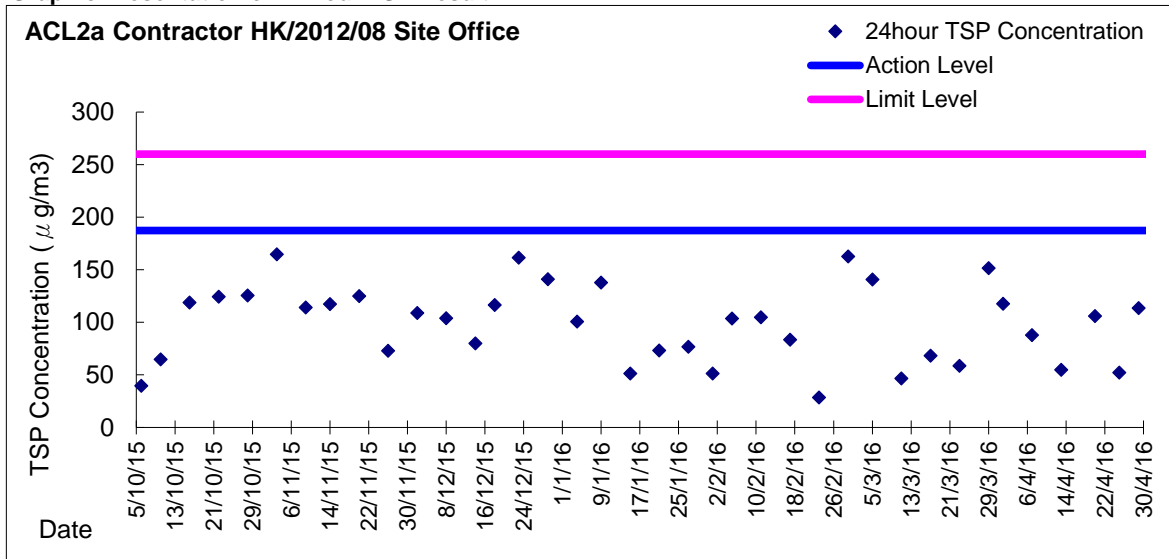
The construction work during the reporting period include, structural works for tunnel construction, roadworks, drainage works, seawall modification, removal of bulk head wall, P1 Road landscaping works and landscaping establishment works.

The weather condition during the reporting period ranges from mostly sunny to occasionally rainy. Generally, the monitoring result indicates a reduction in TSP level during rainfall.

Graphic Presentation of 1 hour TSP Result



Graphic Presentation of 24 hour TSP Result



The construction work during the reporting period include, structural works for tunnel construction, roadworks, drainage works, seawall modification, removal of bulk head wall, P1 road landscaping works and landscaping establishment works. The weather condition during the reporting period ranges from mostly sunny to occasionally rainy.

Generally, the monitoring result indicates a reduction in TSP level during rainfall.



Appendix 4.3

Water Quality Monitoring Graphical Presentations



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

Date	Time	Weather Condition	Sampling Depth	Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids								
				°C		-		ppt		%		mg/L		NTU		mg/L								
				m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
1/2/16	10:13	Rainy	Middle	3.5	15.20	15.20	15.35	8.34	8.34	8.36	30.49	30.49	30.72	90.4	89.0	88.3	7.47	7.36	7.30	7.60	7.54	7.57	4	3.00
	10:15		Middle	3.5	15.50	15.50	15.35	8.38	8.38	8.36	30.95	30.95	30.72	87.6	86.1	88.3	7.24	7.12	7.30	7.55	7.58	7.57	2	
3/2/16	15:15	Fine	Middle	3.5	15.70	15.70	15.70	8.48	8.48	8.50	31.37	31.37	31.37	95.6	96.0	95.4	7.87	7.88	7.84	6.89	6.91	6.92	2	3.00
	15:17		Middle	3.5	15.70	15.70	15.70	8.51	8.51	8.50	31.37	31.37	31.37	95.1	95.0	95.4	7.81	7.80	7.84	6.93	6.93	6.92	4	
5/2/16	12:20	Fine	Middle	3.5	16.60	16.60	16.65	8.42	8.42	8.44	31.35	31.35	31.35	99.1	98.4	98.0	7.98	7.93	7.87	9.17	9.17	9.15	<2	<2
	12:22		Middle	3.5	16.70	16.70	16.65	8.46	8.46	8.44	31.35	31.35	31.35	97.8	96.5	98.0	7.78	7.77	7.87	9.13	9.12	9.15	<2	
11/2/16	8:24	Fine	Middle	3.5	16.30	16.30	16.35	8.41	8.41	8.42	30.81	30.81	30.81	86.8	86.6	87.6	7.06	7.08	7.13	9.23	9.24	9.25	<2	2.00
	8:26		Middle	3.5	16.40	16.40	16.35	8.43	8.43	8.42	30.80	30.80	30.81	88.5	88.3	87.6	7.20	7.18	7.13	9.24	9.27	9.25	2	
13/2/16	10:08	Fine	Middle	3.5	18.00	18.00	18.00	8.36	8.36	8.38	29.39	29.39	29.83	90.8	88.3	87.8	7.18	6.99	6.94	9.68	9.49	9.57	8	7.50
	10:10		Middle	3.5	18.00	18.00	18.00	8.39	8.39	8.38	30.27	30.27	29.83	86.9	85.2	87.8	6.87	6.73	6.94	9.52	9.59	9.57	7	
15/2/16	10:35	Fine	Middle	3.0	15.80	15.80	15.80	8.41	8.41	8.43	30.16	30.16	30.09	96.0	95.2	95.3	7.92	7.85	7.86	5.75	5.88	5.86	4	4.00
	10:37		Middle	3.0	15.80	15.80	15.80	8.44	8.44	8.43	30.01	30.01	30.09	94.6	95.3	95.3	7.80	7.86	7.86	5.91	5.90	5.86	4	
17/2/16	10:46	Fine	Middle	3.5	15.50	15.50	15.50	8.42	8.42	8.44	30.97	30.97	31.01	93.3	93.2	93.5	7.69	7.69	7.71	6.15	6.16	6.17	<2	2.00
	10:48		Middle	3.5	15.50	15.50	15.50	8.46	8.46	8.44	31.04	31.04	31.01	94.0	93.4	93.5	7.75	7.71	7.71	6.17	6.18	6.17	2	
19/2/16	14:42	Cloudy	Middle	3.5	16.20	16.20	16.15	8.43	8.43	8.45	30.61	30.61	30.84	94.6	92.7	91.8	7.72	7.57	7.50	6.14	6.26	6.20	2	2.50
	14:44		Middle	3.5	16.10	16.10	16.15	8.46	8.46	8.45	31.07	31.07	30.84	90.4	89.3	91.8	7.42	7.28	7.50	6.22	6.17	6.20	3	
22/2/16	11:10	Cloudy	Middle	3.5	15.80	15.80	15.85	8.49	8.49	8.51	30.83	30.83	30.83	97.8	98.0	97.8	8.03	8.08	8.03	3.87	3.81	3.80	2	2.50
	11:12		Middle	3.5	15.90	15.90	15.85	8.52	8.52	8.51	30.83	30.83	30.83	97.6	97.6	97.8	8.00	8.00	8.03	3.78	3.73	3.80	3	
24/2/16	20:05	Cloudy	Middle	3.5	15.30	15.30	15.32	8.58	8.58	8.59	30.84	30.84	30.84	66.5	66.3	66.2	5.52	5.50	5.49	3.99	3.86	3.73	4	4.00
	20:06		Middle	3.5	15.30	15.38	15.32	8.59	8.59	8.59	30.84	30.84	30.84	66.1	65.9	66.2	5.48	5.47	5.49	3.56	3.52	3.73	4	
26/2/16	9:05	Fine	Middle	3.5	15.40	15.40	15.40	8.49	8.49	8.51	30.61	30.61	30.62	97.3	98.5	98.1	8.07	8.17	8.14	3.51	3.48	3.47	5	4.50
	9:07		Middle	3.5	15.40	15.40	15.40	8.52	8.52	8.51	30.62	30.62	30.62	98.7	97.9	98.1	8.19	8.12	8.14	3.50	3.38	3.47	4	
29/2/16	9:09	Fine	Middle	3.5	16.50	16.50	16.40	8.35	8.35	8.38	30.14	30.14	30.37	97.0	94.7	94.3	7.97	7.71	7.69	3.94	3.99	3.68	4	4.50
	9:11		Middle	3.5	16.30	16.30	16.40	8.40	8.40	8.38	30.59	30.59	30.37	93.4	92.0	94.3	7.60	7.49	7.69	3.54	3.24	3.68	5	

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	Weather Condition	Sampling Depth m	Water Temperature °C			pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		Suspended Solids mg/L							
				Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
1/2/16	10:17	Rainy	Middle	3.5	15.30	15.30	15.30	8.22	8.22	8.27	30.18	30.18	30.22	91.5	89.1	88.4	7.62	7.42	7.36	9.39	9.38	9.37	5	5.00
	10:19		Middle	3.5	15.30	15.30	15.30	8.31	8.31	8.27	30.25	30.25	30.22	87.5	85.5	88.4	7.29	7.12	7.36	9.36	9.36	9.37	5	
3/2/16	15:10	Fine	Middle	3.5	15.80	15.80	15.80	8.40	8.40	8.42	28.73	28.73	28.74	92.0	92.0	92.3	7.65	7.65	7.67	14.24	14.24	14.23	5	6.00
	15:12		Middle	3.5	15.80	15.80	15.80	8.44	8.44	8.42	28.74	28.74	28.74	92.6	92.4	92.3	7.71	7.68	7.67	14.22	14.21	14.23	7	
5/2/16	12:15	Fine	Middle	3.0	17.00	17.00	17.05	8.29	8.29	8.34	30.32	30.32	30.32	96.2	96.8	96.4	7.74	7.78	7.76	9.50	9.51	9.51	<2	<2
	12:17		Middle	3.0	17.10	17.10	17.05	8.38	8.38	8.34	30.32	30.32	30.32	96.4	96.3	96.4	7.76	7.75	7.76	9.51	9.51	9.51	<2	
11/2/16	8:28	Fine	Middle	3.5	16.60	16.60	16.70	8.34	8.34	8.34	30.69	30.69	30.67	88.7	87.4	87.2	7.17	7.06	7.05	8.30	8.25	8.26	2	2.00
	8:30		Middle	3.5	16.80	16.80	16.70	8.33	8.33	8.34	30.64	30.64	30.67	86.8	86.0	87.2	7.01	6.94	7.05	8.24	8.23	8.26	<2	
13/2/16	10:04	Fine	Middle	3.5	18.70	18.70	18.80	8.31	8.31	8.33	29.23	29.23	29.21	91.0	91.4	90.9	7.12	7.15	7.11	10.38	10.41	10.42	7	6.50
	10:06		Middle	3.5	18.90	18.90	18.80	8.34	8.34	8.33	29.18	29.18	29.21	91.6	89.5	90.9	7.17	7.00	7.11	10.43	10.44	10.42	6	
15/2/16	10:30	Fine	Middle	3.0	15.70	15.70	15.65	8.39	8.39	8.40	28.09	28.09	28.10	92.6	92.8	91.7	7.76	7.77	7.68	9.26	9.25	9.25	3	3.50
	10:32		Middle	3.0	15.60	15.60	15.65	8.41	8.41	8.40	28.10	28.10	28.10	91.3	90.1	91.7	7.65	7.55	7.68	9.24	9.24	9.25	4	
17/2/16	10:42	Fine	Middle	3.5	15.50	15.50	15.45	8.35	8.35	8.38	30.50	30.50	30.52	91.7	90.2	90.4	7.60	7.48	7.50	5.93	5.92	5.93	2	2.00
	10:44		Middle	3.5	15.40	15.40	15.45	8.41	8.41	8.38	30.54	30.54	30.52	89.7	90.1	90.4	7.43	7.47	7.50	5.92	5.93	5.93	<2	
19/2/16	14:38	Cloudy	Middle	3.5	16.20	16.20	16.25	8.38	8.38	8.40	30.30	30.30	30.29	91.6	90.0	89.3	7.48	7.34	7.29	8.35	8.34	8.34	7	6.50
	14:40		Middle	3.5	16.30	16.30	16.25	8.42	8.42	8.40	30.27	30.27	30.29	88.4	87.1	89.3	7.22	7.11	7.29	8.34	8.34	8.34	6	
22/2/16	11:05	Cloudy	Middle	3.5	16.00	16.00	16.05	8.38	8.38	8.41	30.30	30.30	30.30	98.1	98.1	98.2	8.05	8.05	8.05	7.00	7.01	6.91	3	2.50
	11:07		Middle	3.5	16.10	16.10	16.05	8.44	8.44	8.41	30.29	30.29	30.30	98.3	98.2	98.2	8.06	8.05	8.05	6.83	6.80	6.91	2	
24/2/16	20:13	Cloudy	Middle	3.0	15.50	15.50	15.50	8.63	8.63	8.62	28.07	28.07	28.07	59.6	59.4	59.2	5.01	4.99	4.98	9.60	9.49	9.48	6	6.00
	20:14		Middle	3.0	15.50	15.50	15.50	8.61	8.61	8.62	28.07	28.07	28.07	59.0	58.8	59.2	4.96	4.94	4.98	9.38	9.45	9.48	6	
26/2/16	9:00	Fine	Middle	3.5	15.50	15.50	15.55	8.42	8.42	8.45	29.58	29.58	29.59	100.2	100.9	100.6	8.34	8.39	8.37	4.14	4.21	4.21	4	4.50
	9:02		Middle	3.5	15.60	15.60	15.55	8.47	8.47	8.45	29.59	29.59	29.59	100.7	100.5	100.6	8.38	8.36	8.37	4.23	4.26	4.21	5	
29/2/16	9:13	Fine	Middle	3.5	16.50	16.50	16.55	8.22	8.22	8.27	29.74	29.74	29.74	97.5	96.3	95.8	7.94	7.84	7.80	5.28	5.05	5.09	19	18.00
	9:15		Middle	3.5	16.60	16.60	16.55	8.32	8.32	8.27	29.73	29.73	29.74	95.2	94.0	95.8	7.75	7.66	7.80	5.00	5.01	5.09	17	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids					
					°C		-			ppt			%		mg/L		NTU		mg/L					
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
1/2/16	17:04	Cloudy	Middle	3.5	15.40	15.40	15.50	8.43	8.43	8.45	30.59	30.59	30.62	90.5	90.0	89.6	7.47	7.43	7.40	8.62	8.62	8.62	3	3.00
	17:06		Middle	3.5	15.60	15.60		8.46	8.46		30.65	30.65		89.0	88.9		7.35	7.34		8.62	8.62		3	
3/2/16	20:30	Cloudy	Middle	3.5	14.80	14.80	14.75	8.54	8.54	8.55	31.50	31.55	31.54	82.4	83.9	83.8	6.90	7.02	7.02	3.53	3.43	3.43	<2	2.00
	20:31		Middle	3.5	14.70	14.70		8.55	8.55		31.55	31.55		84.4	84.6		7.06	7.08		3.39	3.37		2	
5/2/16	22:54	Fine	Middle	3.5	14.90	14.90	14.90	8.48	8.48	8.49	31.24	31.24	31.24	85.3	85.1	85.4	7.12	7.10	7.13	1.69	1.66	1.68	2	2.00
	22:55		Middle	3.5	14.90	14.90		8.49	8.50		31.24	31.24		85.4	85.8		7.13	7.15		1.63	1.75		2	
11/2/16	13:30	Fine	Middle	3.5	17.60	17.60	17.35	8.40	8.47	8.44	30.67	30.67	30.76	94.1	93.3	93.2	7.55	7.48	7.47	9.11	9.31	9.20	<2	<2
	13:32		Middle	3.5	17.10	17.10		8.44	8.44		30.85	30.85		93.7	91.6		7.51	7.34		9.24	9.13		<2	
13/2/16	14:51	Fine	Middle	3.5	19.00	19.00	18.70	8.34	8.34	8.36	30.37	30.37	30.36	90.4	89.3	89.3	7.10	7.01	7.01	8.90	8.83	8.82	3	3.00
	14:53		Middle	3.5	18.40	18.40		8.38	8.38		30.34	30.34		88.8	88.5		6.97	6.94		8.77	8.77		3	
15/2/16	16:51	Rainy	Middle	3.0	15.60	15.60	15.55	8.43	8.43	8.44	30.06	30.06	30.06	94.0	94.1	93.8	7.80	7.80	7.80	8.54	8.55	8.54	4	3.50
	16:53		Middle	3.0	15.50	15.50		8.45	8.45		30.05	30.05		93.5	93.7		7.75	7.85		8.54	8.53		3	
17/2/16	20:12	Cloudy	Middle	3.5	15.10	15.10	15.05	8.57	8.57	8.58	31.48	31.48	31.48	84.0	84.6	84.6	6.98	7.03	7.03	1.97	1.94	1.92	2	2.50
	20:13		Middle	3.5	15.00	15.00		8.58	8.58		31.48	31.48		84.9	84.8		7.05	7.04		1.91	1.87		3	
19/2/16	22:15	Cloudy	Middle	3.5	16.00	16.00	16.00	8.47	8.47	8.48	31.21	31.21	31.21	70.8	70.6	70.5	5.78	5.77	5.76	2.78	2.81	2.78	<2	2.00
	22:16		Middle	3.5	16.00	16.00		8.48	8.48		31.21	31.21		70.4	70.2		5.75	5.73		2.87	2.65		2	
22/2/16	17:20	Cloudy	Middle	3.0	16.10	16.10	16.15	8.51	8.51	8.52	30.82	30.82	30.82	97.4	98.1	97.2	7.95	8.00	7.93	5.61	5.75	5.49	4	4.50
	17:22		Middle	3.0	16.20	16.20		8.53	8.53		30.81	30.81		97.8	95.5		7.98	7.79		5.39	5.22		5	
24/2/16	14:08	Fine	Middle	3.5	15.90	15.90	15.90	8.37	8.37	8.39	27.82	27.82	27.82	82.4	82.0	81.4	6.88	6.84	6.79	9.39	9.40	9.39	3	3.50
	14:10		Middle	3.5	15.90	15.90		8.40	8.40		27.81	27.81		81.0	80.3		6.75	6.70		9.41	9.36		4	
26/2/16	13:05	Fine	Middle	3.5	16.60	16.60	16.40	8.40	8.40	8.44	30.76	30.76	30.66	97.1	96.5	96.2	7.96	7.91	7.89	3.14	3.14	3.10	<2	2.00
	13:07		Middle	3.5	16.20	16.20		8.48	8.48		30.55	30.55		95.6	95.6		7.83	7.84		3.09	3.01		2	
29/2/16	16:02	Fine	Middle	3.5	17.70	17.70	17.55	8.32	8.32	8.35	30.39	30.39	30.41	96.6	95.0	94.9	7.72	7.59	7.57	4.04	4.01	3.87	5	5.00
	16:04		Middle	3.5	17.40	17.40		8.38	8.38		30.43	30.43		94.1	93.9		7.51	7.46		3.73	3.69		5	

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	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-			ppt		%		mg/L		NTU		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
1/2/16	17:08	Cloudy	Middle	4	15.40	15.40	15.35	8.37	8.37	8.39	30.24	30.24	30.26	87.3	86.6	86.4	7.27	7.20	7.19	9.99	9.97	9.96	4	4.50
	17:10		Middle	4	15.30	15.30		8.41	8.41		30.27	30.27		86.0	85.8		7.16	7.14		9.96	9.93		5	
3/2/16	20:40	Cloudy	Middle	3	15.40	15.40	15.35	8.64	8.64	8.64	27.26	27.26	27.27	72.8	72.7	72.7	6.18	6.17	6.17	9.55	9.62	9.63	3	2.50
	20:41		Middle	3	15.30	15.30		8.63	8.63		27.28	27.28		72.7	72.5		6.17	6.16		9.69	9.66		2	
5/2/16	22:58	Fine	Middle	3	15.40	15.40	15.40	8.59	8.59	8.58	26.59	26.59	26.56	70.1	70.3	70.5	5.95	5.97	5.99	10.53	10.23	10.29	2	2.50
	22:59		Middle	3	15.40	15.40		8.56	8.56		26.53	26.53		71.0	70.5		6.04	6.00		10.21	10.18		3	
11/2/16	13:34	Fine	Middle	4	17.50	17.50	17.55	8.38	8.38	8.39	30.13	30.13	30.12	87.6	86.6	86.0	6.97	6.89	6.84	9.79	9.79	9.79	<2	<2
	13:36		Middle	4	17.60	17.60		8.40	8.40		30.10	30.10		85.1	84.7		6.77	6.74		9.79	9.77		<2	
13/2/16	14:47	Fine	Middle	4	19.30	19.30	19.35	8.37	8.37	8.37	27.57	27.57	27.53	78.3	78.0	77.7	6.13	6.10	6.08	11.15	11.15	11.15	3	3.50
	14:49		Middle	4	19.40	19.40		8.37	8.37		27.49	27.49		77.7	76.8		6.08	6.01		11.15	11.15		4	
15/2/16	16:47	Rainy	Middle	3	15.50	15.50	15.45	8.41	8.41	8.42	28.87	28.87	28.88	92.9	91.7	91.7	7.77	7.68	7.68	9.77	9.73	9.74	6	6.00
	16:49		Middle	3	15.40	15.40		8.42	8.42		28.88	28.88		91.4	90.8		7.65	7.60		9.72	9.72		6	
17/2/16	20:20	Cloudy	Middle	3	15.60	15.60	15.60	8.60	8.60	8.58	27.84	27.84	27.84	76.7	76.7	76.8	6.44	6.44	6.46	8.76	8.73	8.72	2	2.50
	20:21		Middle	3	15.60	15.60		8.56	8.56		27.84	27.84		76.9	77.0		6.47	6.47		8.64	8.74		3	
19/2/16	22:07	Cloudy	Middle	3	16.10	16.10	16.10	8.56	8.56	8.56	27.88	27.88	27.88	64.6	64.4	64.4	5.37	5.36	5.35	8.87	8.94	8.79	4	4.00
	22:08		Middle	3	16.10	16.10		8.55	8.55		27.88	27.88		64.3	64.1		5.35	5.33		8.90	8.43		4	
22/2/16	17:15	Cloudy	Middle	3	16.30	16.30	16.35	8.45	8.45	8.47	29.94	29.94	29.94	95.1	95.8	94.5	7.77	7.83	7.72	7.24	7.22	7.22	4	3.50
	17:17		Middle	3	16.40	16.40		8.48	8.48		29.94	29.94		94.4	92.6		7.72	7.56		7.21	7.21		3	
24/2/16	14:12	Fine	Middle	4	15.80	15.80	15.75	8.39	8.39	8.42	30.10	30.10	30.31	95.1	93.4	93.2	7.85	7.71	7.69	3.58	3.63	3.75	5	5.50
	14:14		Middle	4	15.70	15.70		8.45	8.45		30.51	30.51		92.4	91.8		7.62	7.58		3.93	3.84		6	
26/2/16	13:09	Fine	Middle	4	16.40	16.40	16.50	8.40	8.40	8.42	27.25	27.25	27.22	89.3	87.9	87.1	7.40	7.29	7.21	8.49	8.49	8.48	4	4.50
	13:11		Middle	4	16.60	16.60		8.43	8.43		27.19	27.19		86.7	84.5		7.18	6.98		8.43	8.49		5	
29/2/16	16:06	Fine	Middle	4	18.30	18.30	18.45	8.27	8.27	8.30	27.13	27.13	27.08	85.7	84.6	85.1	6.82	6.71	6.76	9.03	9.04	9.04	12	11.50
	16:08		Middle	4	18.60	18.60		8.32	8.32		27.02	27.02		85.1	84.8		6.77	6.75		9.04	9.04		11	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C			-			ppt		%		mg/L		NTU		mg/L					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
2/3/16	10:16	Fine	Middle	3.5	16.30	16.30	16.30	8.57	8.57	8.58	30.70	30.70	30.45	90.1	89.8	89.8	7.34	7.31	7.32	2.96	2.96	2.92	5	5.50
	10:18		Middle	3.5	16.30	16.30		8.59	8.59		30.20	30.20		89.7	89.6		7.31	7.30		2.89	2.88		6	
4/3/16	10:58	Fine	Middle	3.5	18.80	18.80	18.98	8.38	8.38	8.42	30.77	30.77	30.69	98.1	96.2	96.9	7.61	7.46	7.53	2.51	2.51	2.52	3	3.00
	11:00		Middle	3.5	19.00	19.30		8.46	8.46		30.60	30.60		95.1	98.1		7.45	7.60		2.52	2.53		3	
7/3/16	17:06	Cloudy	Middle	3.5	18.00	18.00	18.00	8.57	8.57	8.59	30.29	30.29	30.37	96.3	94.8	93.5	7.60	7.48	7.38	3.28	3.29	3.23	5	4.00
	17:08		Middle	3.5	18.00	18.00		8.61	8.61		30.45	30.45		91.9	91.1		7.25	7.20		3.22	3.14		3	
9/3/16	17:50	Cloudy	Middle	3.5	19.30	19.30	19.15	8.60	8.60	8.62	29.94	29.94	29.93	97.2	95.8	95.0	7.59	7.48	7.41	4.06	4.01	4.02	6	6.00
	17:52		Middle	3.5	19.00	19.00		8.64	8.64		29.92	29.92		94.0	93.0		7.32	7.24		4.00	3.99		6	
11/3/16	13:56	Fine	Middle	3.5	16.60	16.60	16.70	8.57	8.57	8.59	31.10	31.10	31.11	90.6	88.7	88.2	7.29	7.14	7.10	3.02	3.09	3.02	2	3.00
	13:58		Middle	3.5	16.80	16.80		8.60	8.60		31.12	31.12		87.0	86.5		7.00	6.96		3.07	2.89		4	
14/3/16	9:55	Cloudy	Middle	3.5	16.70	16.70	16.70	8.48	8.49	8.51	31.20	31.20	31.23	92.7	91.9	91.4	7.46	7.39	7.35	4.41	4.40	4.40	4	4.00
	9:57		Middle	3.5	16.70	16.70		8.53	8.53		31.25	31.25		90.9	90.0		7.32	7.22		4.40	4.40		4	
16/3/16	10:55	Cloudy	Middle	3.5	16.50	16.50	16.50	8.57	8.57	8.58	31.46	31.46	31.46	88.7	87.5	87.3	7.16	7.07	7.05	3.37	3.37	3.37	2	3.00
	10:57		Middle	3.5	16.50	16.50		8.59	8.59		31.46	31.46		86.8	86.3		7.00	6.97		3.37	3.37		4	
18/3/16	14:00	Cloudy	Middle	3.5	18.90	18.90	18.55	8.41	8.41	8.44	31.23	31.23	31.35	95.1	92.8	92.1	7.44	7.26	7.20	3.45	3.45	3.47	3	3.00
	14:02		Middle	3.5	18.20	18.20		8.48	8.47		31.47	31.47		90.8	89.6		7.10	7.01		3.49	3.50		3	
21/3/16	17:45	Cloudy	Middle	3.5	17.60	17.60	17.65	8.60	8.60	8.61	31.75	31.75	31.76	89.3	89.5	89.3	7.05	7.06	7.05	6.30	6.31	6.23	5	4.50
	17:47		Middle	3.5	17.80	17.60		8.61	8.61		31.76	31.76		89.1	89.4		7.04	7.06		6.16	6.15		4	
23/3/16	16:53	Cloudy	Middle	3.5	18.50	18.50	18.31	8.46	8.46	8.48	31.36	31.47	31.42	86.8	86.5	86.2	6.80	6.77	6.75	6.90	6.54	6.64	5	5.00
	16:55		Middle	3.5	18.11	18.11		8.50	8.50		31.43	31.43		86.1	85.3		6.74	6.67		6.54	6.58		5	
25/3/16	9:14	Cloudy	Middle	3.5	16.00	16.00	16.00	8.34	8.34	8.36	31.20	31.21	31.23	74.7	74.4	74.4	6.10	6.08	6.08	6.22	6.14	6.13	6	6.00
	9:15		Middle	3.5	16.00	16.00		8.38	8.38		31.23	31.27		74.3	74.2		6.07	6.06		6.09	6.07		6	
29/3/16	9:09	Fine	Middle	3.5	16.90	16.90	16.90	8.48	8.48	8.50	31.38	31.38	31.38	94.7	95.0	94.7	7.59	7.61	7.59	5.75	5.64	5.59	3	3.50
	9:11		Middle	3.5	16.90	16.90		8.51	8.51		31.38	31.38		94.5	94.6		7.57	7.58		5.51	5.47		4	
31/3/16	9:55	Fine	Middle	3.0	18.70	18.70	18.80	8.31	8.31	8.34	31.25	31.25	31.24	98.7	98.8	98.3	7.63	7.64	7.61	4.20	4.01	4.10	3	2.50
	9:57		Middle	3.0	18.90	18.90		8.37	8.37		31.23	31.23		98.6	97.1		7.62	7.56		4.12	4.08		2	

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	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
2/3/16	10:20	Fine	Middle	3.5	16.40	16.40	16.40	8.50	8.50	8.52	30.32	30.32	30.32	88.1	88.6	88.9	7.18	7.22	7.24	3.39	3.38	3.38	2	2.00
	10:22		Middle	3.5	16.40	16.40		8.54	8.54		30.31	30.31		89.2	89.5		7.27	7.29		3.37	3.39		2	
4/3/16	11:02	Fine	Middle	3.5	18.20	18.20	18.25	8.52	8.52	8.52	28.90	28.90	28.90	92.3	90.3	89.7	7.31	7.16	7.11	6.82	7.05	7.00	4	4.00
	11:04		Middle	3.5	18.30	18.30		8.52	8.52		28.90	28.90		88.6	87.6		7.02	6.94		7.06	7.07		4	
7/3/16	17:02	Cloudy	Middle	3.5	18.30	18.30	18.35	8.46	8.46	8.52	29.15	29.15	29.08	93.6	91.4	94.2	7.40	7.22	7.44	6.01	5.92	5.92	7	6.00
	17:04		Middle	3.5	18.40	18.40		8.57	8.57		29.00	29.00		97.1	94.7		7.65	7.49		5.90	5.84		5	
9/3/16	17:54	Cloudy	Middle	3.5	19.00	19.00	19.10	8.52	8.52	8.56	29.35	29.35	29.32	91.0	89.7	89.6	7.08	6.98	6.97	5.07	5.06	4.96	5	5.50
	17:56		Middle	3.5	19.20	19.20		8.60	8.60		29.28	29.28		88.7	89.0		6.90	6.92		4.86	4.84		6	
11/3/16	14:00	Fine	Middle	3.5	16.60	16.60	16.60	8.56	8.56	8.58	28.50	28.50	28.51	78.7	80.6	80.4	6.45	6.61	6.59	7.93	7.91	7.89	7	7.50
	14:02		Middle	3.5	16.60	16.60		8.59	8.59		28.51	28.51		81.2	80.9		6.66	6.63		7.89	7.82		8	
14/3/16	9:51	Cloudy	Middle	3.5	16.80	16.80	16.80	8.38	8.38	8.42	31.04	31.04	31.04	85.9	84.8	85.0	6.91	6.82	6.83	4.18	4.16	4.16	5	4.50
	9:53		Middle	3.5	16.80	16.80		8.45	8.45		31.04	31.04		84.8	84.3		6.82	6.78		4.15	4.15		4	
16/3/16	10:51	Cloudy	Middle	3.5	16.50	16.50	16.50	8.55	8.55	8.56	30.80	30.80	30.80	76.6	76.7	76.7	6.20	6.21	6.21	3.74	3.74	3.74	4	4.00
	10:53		Middle	3.5	16.50	16.50		8.56	8.56		30.79	30.79		76.7	76.7		6.21	6.21		3.74	3.74		4	
18/3/16	13:56	Cloudy	Middle	3.5	18.80	18.80	18.85	8.35	8.35	8.38	28.48	28.48	28.49	84.9	83.2	82.3	6.67	6.53	6.47	8.89	8.88	8.77	6	5.50
	13:58		Middle	3.5	18.90	18.90		8.41	8.41		28.50	28.50		80.6	80.4		6.37	6.30		8.87	8.45		5	
21/3/16	17:50	Cloudy	Middle	3.5	17.60	17.60	17.60	8.57	8.57	8.57	31.76	31.76	31.76	95.1	95.1	95.2	7.51	7.50	7.51	6.76	6.73	6.76	4	5.00
	17:52		Middle	3.5	17.60	17.60		8.57	8.57		31.76	31.76		95.1	95.4		7.50	7.53		6.77	6.77		6	
23/3/16	16:49	Cloudy	Middle	3.5	18.30	18.30	18.35	8.40	8.40	8.44	29.67	29.67	29.64	87.1	85.8	85.6	6.86	6.75	6.74	8.38	8.32	8.29	6	6.00
	16:51		Middle	3.5	18.40	18.40		8.47	8.47		29.60	29.60		85.1	84.5		6.70	6.65		8.23	8.22		6	
25/3/16	9:30	Cloudy	Middle	3.0	16.20	16.20	16.15	8.57	8.57	8.57	26.85	26.84	26.84	72.5	72.5	72.5	6.06	6.06	6.06	6.56	6.48	6.42	7	6.50
	9:30		Middle	3.0	16.10	16.10		8.56	8.56		26.83	26.83		72.4	72.4		6.06	6.06		6.34	6.30		6	
29/3/16	9:05	Fine	Middle	3.5	17.00	17.00	17.00	8.33	8.33	8.34	30.68	30.68	30.69	98.0	98.1	97.8	7.87	7.92	7.86	5.31	5.11	5.14	4	4.00
	9:07		Middle	3.5	17.00	17.00		8.34	8.34		30.69	30.69		98.2	96.9		7.88	7.77		5.07	5.07		4	
31/3/16	9:50	Fine	Middle	3.0	19.20	19.20	19.35	8.20	8.20	8.24	29.33	29.33	29.33	98.1	97.8	96.7	7.59	7.57	7.48	5.61	5.57	5.58	4	3.50
	9:52		Middle	3.0	19.50	19.50		8.27	8.27		29.33	29.33		94.9	95.9		7.33	7.41		5.54	5.59		3	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-			ppt		%		mg/L		NTU		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
2/3/16	17:28	Fine	Middle	3.5	17.10	17.10	17.15	8.64	8.64	8.66	30.90	30.90	30.89	95.6	94.6	93.9	7.64	7.57	7.51	2.30	2.30	2.31	3	3.00
	17:30		Middle	3.5	17.20	17.20		8.67	8.67		30.88	30.88		93.1	92.1		93.9	7.44		7.37	7.51		2.32	
4/3/16	20:21	Cloudy	Middle	3.5	19.70	19.70	19.70	8.58	8.58	8.59	30.84	30.84	30.85	84.3	84.5	84.4	6.43	6.44	6.44	4.07	3.47	3.60	5	4.50
	20:22		Middle	3.5	19.70	19.70		8.60	8.60		30.85	30.85		84.7	84.0		84.4	6.48		6.39	6.44		3.24	
7/3/16	11:23	Cloudy	Middle	3.5	18.10	18.10	18.15	8.58	8.58	8.59	30.58	30.58	30.57	93.2	92.9	92.0	7.32	7.25	7.22	1.79	1.77	1.78	2	2.50
	11:25		Middle	3.5	18.20	18.20		8.60	8.60		30.55	30.55		91.4	90.6		92.0	7.18		7.11	7.22		1.77	
9/3/16	11:00	Rainy	Middle	3.5	19.10	19.10	19.25	8.39	8.39	8.44	30.48	30.48	30.48	94.9	93.7	93.8	7.31	7.20	7.22	2.64	2.56	2.59	4	4.00
	11:02		Middle	3.5	19.40	19.40		8.49	8.49		30.48	30.48		93.4	93.0		93.8	7.19		7.17	7.22		2.53	
11/3/16	8:30	Fine	Middle	3.5	15.10	15.10	15.40	8.59	8.59	8.60	30.57	30.57	30.70	91.0	89.6	88.9	7.49	7.37	7.31	4.42	4.23	4.18	2	2.50
	8:32		Middle	3.5	15.70	15.70		8.61	8.61		30.83	30.83		88.0	86.8		88.9	7.24		7.14	7.31		4.04	
14/3/16	16:05	Cloudy	Middle	3.5	16.70	16.70	16.70	8.55	8.55	8.57	31.20	31.20	31.20	98.9	99.2	98.5	7.96	7.99	7.93	3.35	3.36	3.34	3	2.50
	16:07		Middle	3.5	16.70	16.70		8.59	8.59		31.20	31.20		98.4	97.5		98.5	7.93		7.85	7.93		3.34	
16/3/16	20:25	Cloudy	Middle	3.0	16.60	16.60	16.60	8.61	8.61	8.63	31.68	31.68	31.68	69.1	68.1	66.9	5.56	5.49	5.38	3.88	3.83	3.78	4	4.00
	20:26		Middle	3.0	16.60	16.60		8.64	8.64		31.68	31.68		65.6	64.8		66.9	5.26		5.22	5.38		3.72	
18/3/16	20:15	Cloudy	Middle	3.5	19.80	19.80	19.80	8.52	8.52	8.53	31.92	31.92	31.92	76.5	76.7	76.4	5.77	5.75	5.74	3.11	3.08	3.07	5	4.50
	20:16		Middle	3.5	19.80	19.80		8.54	8.54		31.92	31.92		76.2	76.2		76.4	5.72		5.71	5.74		3.06	
21/3/16	11:11	Fine	Middle	3.0	17.20	17.20	17.20	8.49	8.49	8.52	32.03	32.03	32.03	96.7	96.4	96.2	7.67	7.65	7.63	4.88	4.90	4.88	4	5.00
	11:13		Middle	3.0	17.20	17.20		8.55	8.55		32.03	32.03		95.9	95.7		96.2	7.61		7.59	7.63		4.87	
23/3/16	11:12	Cloudy	Middle	3.5	17.70	17.70	17.75	8.44	8.44	8.47	31.75	31.75	31.74	87.7	86.4	86.4	6.90	6.79	6.79	5.38	5.36	5.36	3	3.00
	11:14		Middle	3.5	17.80	17.80		8.50	8.50		31.72	31.72		85.8	85.6		86.4	6.75		6.72	6.79		5.34	
25/3/16	12:30	Cloudy	Middle	3.5	15.90	15.90	15.90	8.53	8.53	8.54	31.84	31.84	31.84	82.2	82.5	82.9	6.70	6.73	6.76	4.84	4.70	4.82	4	4.00
	12:31		Middle	3.5	15.90	15.90		8.54	8.54		31.84	31.83		83.2	83.6		82.9	6.79		6.82	6.76		4.80	
29/3/16	14:04	Fine	Middle	3.5	17.60	17.60	17.45	8.47	8.47	8.49	31.56	31.56	31.57	90.0	87.6	87.8	7.12	6.95	6.96	4.58	4.41	4.43	3	3.00
	14:06		Middle	3.5	17.30	17.30		8.50	8.50		31.58	31.58		87.0	86.6		87.8	6.90		6.88	6.96		4.37	
31/3/16	17:50	Fine	Middle	3.5	19.30	19.30	19.35	8.33	8.33	8.36	31.33	31.33	31.30	88.6	90.3	90.6	6.77	6.91	6.93	4.08	4.35	4.15	4	5.00
	17:52		Middle	3.5	19.40	19.40		8.39	8.39		31.27	31.27		91.9	91.5		90.6	7.04		7.00	6.93		4.12	

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	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
2/3/16	17:32	Fine	Middle	4	17.20	17.20	17.30	8.52	8.52	8.56	30.97	30.97	30.91	105.1	104.7	105.2	8.39	8.38	8.40	2.11	2.13	2.13	5	4.50
	17:34		Middle	4	17.40	17.40		8.59	8.59		30.84	30.84		105.3	105.6		8.40	8.42		2.13	2.14		4	
4/3/16	20:32	Cloudy	Middle	3	19.80	19.80	19.80	8.60	8.64	8.60	24.63	24.63	24.63	17.8	18.0	18.1	1.40	1.43	1.43	10.52	9.73	9.98	7	7.50
	20:33		Middle	3	19.80	19.80		8.57	8.57		24.63	24.63		18.3	18.4		1.45	1.45		10.07	9.61		8	
7/3/16	11:19	Cloudy	Middle	4	18.60	18.60	18.75	8.47	8.47	8.50	30.42	30.42	30.40	102.6	102.1	99.0	7.99	7.94	7.70	2.75	2.76	2.76	3	3.00
	11:21		Middle	4	18.90	18.90		8.53	8.53		30.37	30.37		96.3	94.8		7.49	7.37		2.75	2.78		3	
9/3/16	11:04	Rainy	Middle	4	19.10	19.10	19.15	8.53	8.53	8.53	27.65	27.65	27.64	83.9	82.4	81.3	6.58	6.47	6.37	8.09	8.08	8.09	6	5.50
	11:06		Middle	4	19.20	19.20		8.52	8.52		27.62	27.62		80.1	78.7		6.28	6.16		8.07	8.13		5	
11/3/16	8:26	Fine	Middle	4	15.30	15.30	15.25	8.54	8.54	8.56	30.62	30.62	30.65	80.0	79.7	79.6	6.64	6.62	6.61	4.15	4.15	4.20	5	4.00
	8:28		Middle	4	15.20	15.20		8.58	8.58		30.68	30.68		79.5	79.3		6.60	6.58		4.24	4.26		3	
14/3/16	16:00	Cloudy	Middle	3	16.80	16.80	16.80	8.44	8.44	8.49	29.58	29.58	29.58	96.3	99.7	97.9	7.81	8.09	7.95	5.97	5.95	5.94	3	3.00
	16:02		Middle	3	16.80	16.80		8.54	8.54		29.58	29.58		98.3	97.4		7.98	7.90		5.92	5.90		3	
16/3/16	20:35	Cloudy	Middle	3	17.10	17.10	17.10	8.67	8.67	8.67	25.40	25.41	25.41	53.0	53.1	53.2	4.38	4.37	4.39	15.68	15.66	15.66	11	11.00
	20:36		Middle	3	17.10	17.10		8.66	8.66		25.41	25.41		53.2	53.3		4.41	4.41		15.65	15.65		11	
18/3/16	20:25	Cloudy	Middle	3	19.70	19.70	19.75	8.66	8.66	8.64	28.67	28.67	28.66	74.1	74.4	73.9	5.71	5.73	5.69	8.22	8.18	8.19	7	6.00
	20:26		Middle	3	19.80	19.80		8.62	8.62		28.65	28.65		73.7	73.2		5.68	5.64		8.26	8.08		5	
21/3/16	11:07	Fine	Middle	3	17.30	17.30	17.35	8.33	8.33	8.34	30.55	30.55	30.55	100.5	99.5	99.0	8.03	7.95	7.91	6.14	6.21	6.20	7	6.00
	11:09		Middle	3	17.40	17.40		8.34	8.34		30.55	30.55		98.3	97.6		7.85	7.81		6.25	6.21		5	
23/3/16	11:16	Cloudy	Middle	4	17.70	17.70	17.70	8.54	8.54	8.54	29.53	29.53	29.54	80.5	79.0	78.7	6.42	6.30	6.27	7.18	7.19	7.20	6	5.50
	11:18		Middle	4	17.70	17.70		8.54	8.54		29.54	29.54		78.0	77.1		6.21	6.15		7.21	7.21		5	
25/3/16	12:45	Cloudy	Middle	3	15.90	15.90	15.85	8.59	8.59	8.59	30.32	30.32	30.32	81.6	81.0	81.3	6.72	6.67	6.70	4.94	5.00	4.95	5	5.00
	12:46		Middle	3	15.80	15.80		8.58	8.58		30.31	30.31		81.3	81.4		6.70	6.70		4.98	4.87		5	
29/3/16	14:00	Fine	Middle	4	17.80	17.80	17.80	8.46	8.46	8.47	30.41	30.41	30.43	77.3	78.7	79.0	6.12	6.23	6.26	5.57	5.60	5.60	4	4.00
	14:02		Middle	4	17.80	17.80		8.48	8.48		30.44	30.44		79.8	80.3		6.32	6.35		5.61	5.61		4	
31/3/16	17:54	Fine	Middle	4	19.30	19.30	19.30	8.43	8.43	8.45	30.98	30.96	30.95	86.2	85.1	85.2	6.63	6.54	6.55	4.41	4.40	4.42	3	3.50
	17:56		Middle	4	19.30	19.30		8.47	8.47		30.93	30.93		84.8	84.6		6.52	6.50		4.40	4.46		4	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
2/4/16	13:17	Fine	Middle	3.5	19.30	19.30	19.35	8.39	8.39	8.41	31.16	31.16	31.15	93.2	91.8	91.5	7.14	7.03	7.01	3.91	3.92	3.88	3	3.50
	13:19		Middle	3.5	19.40	19.40		8.43	8.43		31.13	31.13		90.9	90.1		6.96	6.89		3.93	3.76		4	
5/4/16	14:47	Fine	Middle	3.5	20.10	20.10	20.15	8.61	8.51	8.55	30.88	30.89	30.87	93.0	94.2	93.7	7.04	7.13	7.09	5.04	5.04	4.95	4	5.00
	14:49		Middle	3.5	20.20	20.20		8.54	8.54		30.85	30.85		94.5	93.0		7.14	7.03		4.93	4.79		6	
7/4/16	18:48	Fine	Middle	3.5	20.30	20.30	20.35	8.52	8.52	8.53	30.45	30.45	30.45	97.2	97.5	97.2	7.34	7.36	7.33	8.36	8.71	8.48	6	6.50
	18:49		Middle	3.5	20.40	20.40		8.54	8.54		30.44	30.44		97.6	96.3		7.36	7.26		8.41	8.44		7	
9/4/16	20:25	Cloudy	Middle	3.0	22.90	22.90	22.90	8.51	8.51	8.52	30.11	30.11	30.11	84.3	84.6	84.5	6.09	6.11	6.10	5.61	5.47	5.48	8	8.00
	20:26		Middle	3.0	22.90	22.90		8.52	8.52		30.11	30.11		84.5	84.4		6.10	6.09		5.45	5.37		8	
11/4/16	8:23	Cloudy	Middle	3.5	20.10	20.10	20.15	8.44	8.49	8.49	30.90	30.90	28.40	82.3	82.0	81.8	6.22	6.19	6.18	7.08	7.03	7.05	8	7.50
	8:25		Middle	3.5	20.20	20.20		8.51	8.51		30.90	20.90		81.7	81.2		6.16	6.14		7.03	7.04		7	
13/4/16	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/4/16	10:55	Cloudy	Middle	3.5	20.30	20.30	20.35	8.42	8.42	8.44	30.99	30.99	30.99	81.1	81.2	80.9	6.11	6.11	6.09	7.23	7.18	7.20	5	4.00
	10:57		Middle	3.5	20.40	20.40		8.46	8.46		30.99	30.99		80.9	80.5		6.09	6.05		7.17	7.20		3	
18/4/16	15:10	Cloudy	Middle	3.0	22.00	22.00	22.05	8.47	8.47	8.49	29.79	29.79	29.78	80.0	78.9	78.9	5.87	5.86	5.81	5.86	5.84	5.86	6	6.00
	15:12		Middle	3.0	22.10	22.10		8.50	8.50		29.77	29.77		78.6	78.1		5.78	5.73		5.87	5.87		6	
20/4/16	17:04	Cloudy	Middle	3.5	21.40	21.40	21.25	8.48	8.48	8.49	30.97	30.97	30.98	71.9	71.8	71.3	5.32	5.32	5.28	8.12	8.38	7.50	5	5.00
	17:06		Middle	3.5	21.10	21.10		8.54	8.45		30.99	30.99		71.3	70.0		5.28	5.18		5.26	8.23		5	
22/4/16	19:56	Cloudy	Middle	3.5	21.90	21.90	22.00	8.50	8.50	8.52	30.70	30.70	30.70	78.7	79.4	78.9	5.74	5.79	5.76	7.65	7.17	7.13	9	8.00
	19:57		Middle	3.5	22.10	22.10		8.53	8.53		30.70	30.70		78.9	78.4		5.79	5.71		6.85	6.83		7	
25/4/16	7:25	Fine	Middle	3.5	22.10	22.10	22.20	8.49	8.49	8.50	30.74	30.74	30.73	74.2	73.2	74.0	5.41	5.33	5.39	9.30	9.31	9.31	12	13.00
	7:27		Middle	3.5	22.30	22.30		8.51	8.51		30.72	30.72		74.5	74.0		5.43	5.39		9.32	9.32		14	
27/4/16	8:55	Cloudy	Middle	4.0	23.00	23.00	23.10	8.48	8.48	8.49	29.89	29.89	29.89	76.3	76.5	75.9	5.51	5.52	5.48	7.68	7.63	7.51	3	3.50
	8:57		Middle	4.0	23.31	23.10		8.50	8.50		29.88	29.88		75.0	75.8		5.41	5.46		7.37	7.35		4	
29/4/16	12:11	Fine	Middle	3.5	22.70	22.70	22.65	8.46	8.46	8.48	31.32	31.32	31.43	72.0	71.3	71.2	5.18	5.13	5.13	7.09	6.88	7.04	4	4.50
	12:13		Middle	3.5	22.60	22.60		8.50	8.50		31.54	31.54		70.7	70.8		5.10	5.10		7.03	7.16		5	

Remarks:

Single underline denotes exceedance over Action Level.
 Double underline denotes exceedance over Limit Level.
 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 13 April 2016 during flood tide and 22 April 2016 during ebb tide were cancelled.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
2/4/16	13:13	Fine	Middle	3.5	20.10	20.10	20.10	8.32	8.32	8.35	28.98	28.98	29.00	90.2	89.3	88.7	6.92	6.86	6.80	7.05	7.07	7.05	6	5.50
	13:15		Middle	3.5	20.10	20.10		8.37	8.37		29.02	29.02		88.1	87.3		6.75	6.68		7.05	7.04		5	
5/4/16	14:51	Fine	Middle	3.5	20.80	20.80	20.85	8.43	8.43	8.47	30.29	30.29	30.31	91.2	90.6	89.6	6.84	6.79	6.72	5.91	6.04	6.03	5	4.50
	15:53		Middle	3.5	20.90	20.90		8.50	8.50		30.32	30.32		89.3	87.4		6.70	6.55		6.06	6.09		4	
7/4/16	18:45	Fine	Middle	3.5	20.80	20.80	20.90	8.43	8.43	8.47	29.72	29.72	29.72	97.0	98.8	97.8	7.28	7.41	7.34	5.76	5.77	5.80	7	6.00
	18:47		Middle	3.5	21.00	21.00		8.50	8.50		29.71	29.71		98.1	97.3		7.38	7.28		5.77	5.91		5	
9/4/16	20:35	Cloudy	Middle	2.5	22.70	22.70	22.80	8.55	8.55	8.52	26.84	26.84	26.84	74.3	73.7	73.7	5.48	5.43	5.43	8.46	8.39	8.45	11	10.50
	20:36		Middle	2.5	22.90	22.90		8.49	8.50		26.83	26.83		73.6	73.0		5.42	5.38		8.53	8.40		10	
11/4/16	8:19	Cloudy	Middle	3.5	20.40	20.40	20.40	8.41	8.41	8.44	30.71	30.71	30.69	71.1	71.7	71.2	5.36	5.40	5.36	7.09	7.15	7.23	7	6.50
	8:21		Middle	3.5	20.40	20.40		8.47	8.47		30.67	30.67		71.6	70.3		5.39	5.30		7.29	7.39		6	
13/4/16	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15/4/16	10:50	Cloudy	Middle	3.5	20.50	20.50	20.55	8.33	8.33	8.37	29.03	29.03	29.03	76.8	77.5	76.6	5.83	5.88	5.81	7.60	7.64	7.67	5	4.50
	10:52		Middle	3.5	20.60	20.60		8.41	8.41		29.02	29.02		76.9	75.3		5.83	5.71		7.71	7.71		4	
18/4/16	15:05	Cloudy	Middle	3.0	22.50	22.50	22.53	8.43	8.43	8.45	28.56	28.56	28.57	75.1	75.7	75.3	5.51	5.56	5.53	7.06	7.00	7.00	6	5.50
	15:07		Middle	3.0	22.60	22.50		8.46	8.46		28.58	28.58		75.3	75.2		5.53	5.51		6.91	7.01		5	
20/4/16	17:00	Cloudy	Middle	3.5	21.60	21.60	21.55	8.40	8.40	8.44	29.54	29.54	29.53	68.5	67.3	66.8	5.10	5.00	4.97	12.54	12.53	12.39	6	6.00
	17:02		Middle	3.5	21.50	21.50		8.48	8.46		29.52	29.52		66.1	65.3		4.91	4.85		12.25	12.24		6	
22/4/16	20:08	Cloudy	Middle	3.0	21.80	21.80	21.90	8.59	8.59	8.58	27.25	27.25	27.25	69.5	69.6	69.5	5.19	5.20	5.19	12.22	11.90	12.06	11	11.50
	20:09		Middle	3.0	22.00	22.00		8.56	8.56		27.24	27.24		69.6	69.1		5.20	5.16		11.88	12.25		12	
25/4/16	7:29	Fine	Middle	3.5	22.60	22.60	22.65	8.41	8.41	8.44	30.58	30.58	30.57	75.1	75.2	74.9	5.43	5.44	5.42	10.40	10.08	10.15	10	10.50
	7:31		Middle	3.5	22.70	22.70		8.46	8.46		30.56	30.56		74.7	74.7		5.40	5.40		10.06	10.06		11	
27/4/16	8:50	Cloudy	Middle	3.5	23.10	23.10	23.18	8.40	8.40	8.44	29.40	29.40	29.40	79.5	78.0	77.9	5.73	5.62	5.61	9.07	9.11	9.13	5	5.50
	8:52		Middle	3.5	23.30	23.23		8.47	8.47		29.39	29.39		77.5	76.6		5.58	5.52		9.13	9.20		6	
29/4/16	12:07	Fine	Middle	3.5	22.90	22.90	23.00	8.38	8.38	8.41	30.98	30.98	30.94	69.4	68.5	68.3	4.96	4.92	4.90	8.38	8.32	8.23	4	4.00
	12:09		Middle	3.5	23.10	23.10		8.44	8.44		30.89	30.89		67.6	67.7		4.85	4.86		8.21	8.00		4	

Remarks:

Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 13 April 2016 during flood tide and 22 April 2016 during ebb tide were cancelled.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids					
					°C		-			ppt			%		mg/L		NTU		mg/L					
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
2/4/16	19:55	Cloudy	Middle	3.5	20.90	20.90	20.93	8.49	8.49	8.50	31.53	31.53	31.53	82.7	84.8	83.4	6.13	6.28	6.17	4.09	4.01	3.99	3	3.00
	19:56		Middle	3.5	21.00	20.90		8.51	8.51		31.53	31.53		84.0	82.1		6.20	6.08		3.94	3.90		3	
5/4/16	10:15	Fine	Middle	3.5	19.70	19.70	19.80	8.47	8.47	8.49	30.94	30.94	30.93	91.3	90.1	89.5	6.94	6.84	6.80	3.82	3.81	3.82	3	3.50
	10:17		Middle	3.5	19.90	19.90		8.50	8.50		30.91	30.91		88.7	88.0		6.74	6.69		3.82	3.82		4	
7/4/16	10:10	Fine	Middle	3.0	20.70	20.70	20.80	8.46	8.46	8.48	30.84	30.84	30.84	96.0	96.8	96.3	7.17	7.23	7.18	4.30	4.09	4.14	2	2.00
	10:12		Middle	3.0	20.90	20.90		8.50	8.50		30.84	30.84		96.6	95.7		7.20	7.13		4.07	4.09		2	
9/4/16	14:23	Fine	Middle	3.5	21.60	21.60	21.55	8.44	8.46	8.47	30.27	30.27	30.28	74.3	74.3	74.0	5.51	5.51	5.48	5.68	5.73	5.73	8	8.00
	14:25		Middle	3.5	21.50	21.50		8.48	8.48		30.28	30.28		73.9	73.4		5.48	5.41		5.73	5.77		8	
11/4/16	13:45	Cloudy	Middle	3.5	20.30	20.30	20.35	8.52	8.52	8.53	30.77	30.77	30.77	80.5	81.0	80.7	6.07	6.10	6.08	7.07	7.00	7.00	5	5.00
	13:47		Middle	3.5	20.40	20.40		8.53	8.53		30.76	30.76		80.7	80.6		6.07	6.07		6.99	6.95		5	
13/4/16	14:45	Cloudy	Middle	3.5	20.50	20.50	20.55	8.53	8.53	8.54	30.50	30.50	28.00	79.6	80.8	80.3	5.99	6.08	6.04	5.51	5.49	5.59	2	2.50
	14:47		Middle	3.5	20.60	20.60		8.54	8.54		30.49	20.49		80.5	80.2		6.05	6.03		5.63	5.72		3	
15/4/16	20:40	Cloudy	Middle	3.0	21.50	21.50	21.50	8.11	8.11	8.15	31.38	31.38	31.40	83.2	80.1	81.8	6.11	5.88	6.01	1.98	2.02	1.98	3	3.50
	20:41		Middle	3.0	21.50	21.50		8.18	8.18		31.41	31.41		80.7	83.2		5.92	6.11		1.96	1.94		4	
18/4/16	10:46	Cloudy	Middle	3.5	21.20	21.20	21.25	8.46	8.46	8.48	29.66	29.66	29.66	78.8	79.0	77.4	5.88	5.89	5.77	7.72	7.49	7.53	6	6.50
	10:48		Middle	3.5	21.30	21.30		8.49	8.49		29.66	29.66		78.0	73.6		5.82	5.49		7.43	7.46		7	
20/4/16	11:48	Cloudy	Middle	3.5	21.20	21.20	21.10	8.54	8.54	8.56	30.63	30.63	30.64	73.4	72.9	72.3	5.44	5.40	5.36	6.13	6.00	6.06	4	4.00
	11:50		Middle	3.5	21.00	21.00		8.57	8.57		30.65	30.65		71.9	71.0		5.33	5.26		5.97	6.13		4	
22/4/16	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/4/16	13:50	Fine	Middle	3.5	23.10	23.10	23.25	8.45	8.45	8.47	29.98	29.98	29.97	79.9	80.4	80.1	5.74	5.78	5.77	10.24	10.22	10.17	6	6.00
	13:52		Middle	3.5	23.40	23.40		8.48	8.48		29.96	29.96		80.4	79.6		5.77	5.77		10.02	10.21		6	
27/4/16	15:39	Fine	Middle	3.5	23.90	23.90	24.05	8.39	8.39	8.42	29.26	29.26	29.26	71.9	71.4	71.0	5.19	5.08	5.07	7.31	7.33	7.33	5	5.00
	15:41		Middle	3.5	24.20	24.20		8.44	8.44		29.25	29.25		70.4	70.2		5.00	4.99		7.33	7.33		5	
29/4/16	17:02	Fine	Middle	3.5	22.40	22.40	22.40	8.52	8.52	8.54	31.53	31.53	31.59	74.3	75.4	73.9	5.38	5.45	5.35	7.51	7.35	7.47	4	5.00
	17:04		Middle	3.5	22.40	22.40		8.55	8.55		31.65	31.65		73.9	72.1		5.34	5.21		7.49	7.53		6	

Remarks:
 Single underline denotes exceedance over Action Level.
 Double underline denotes exceedance over Limit Level.
 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 13 April 2016 during flood tide and 22 April 2016 during ebb tide were cancelled.



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

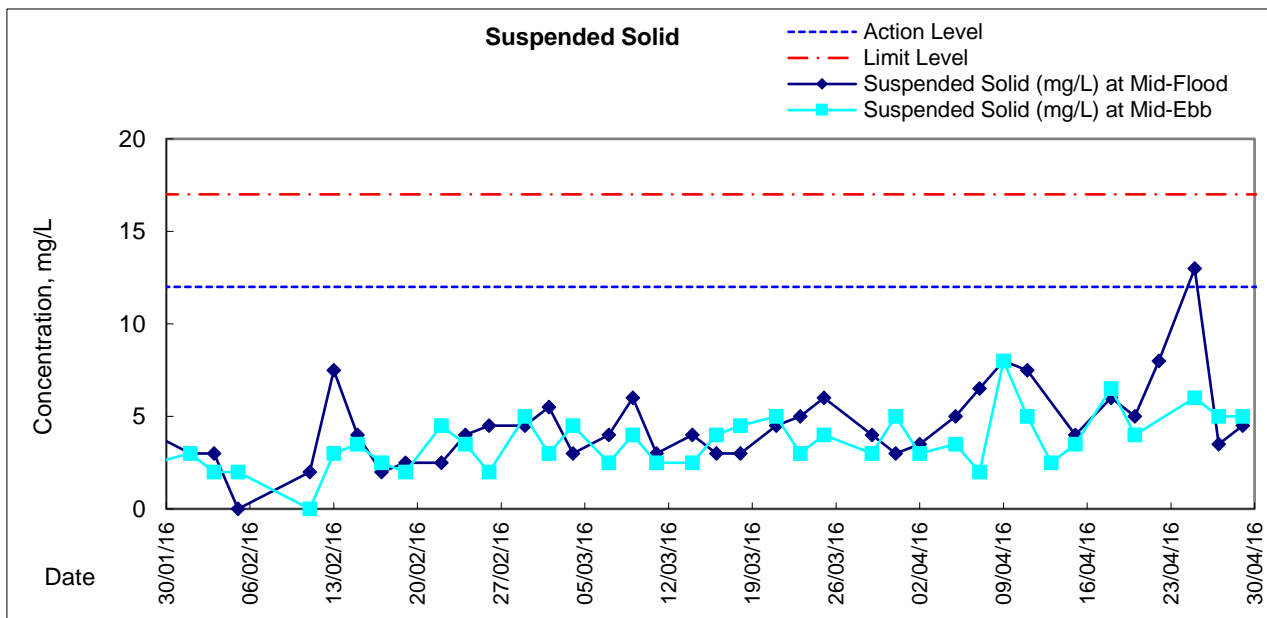
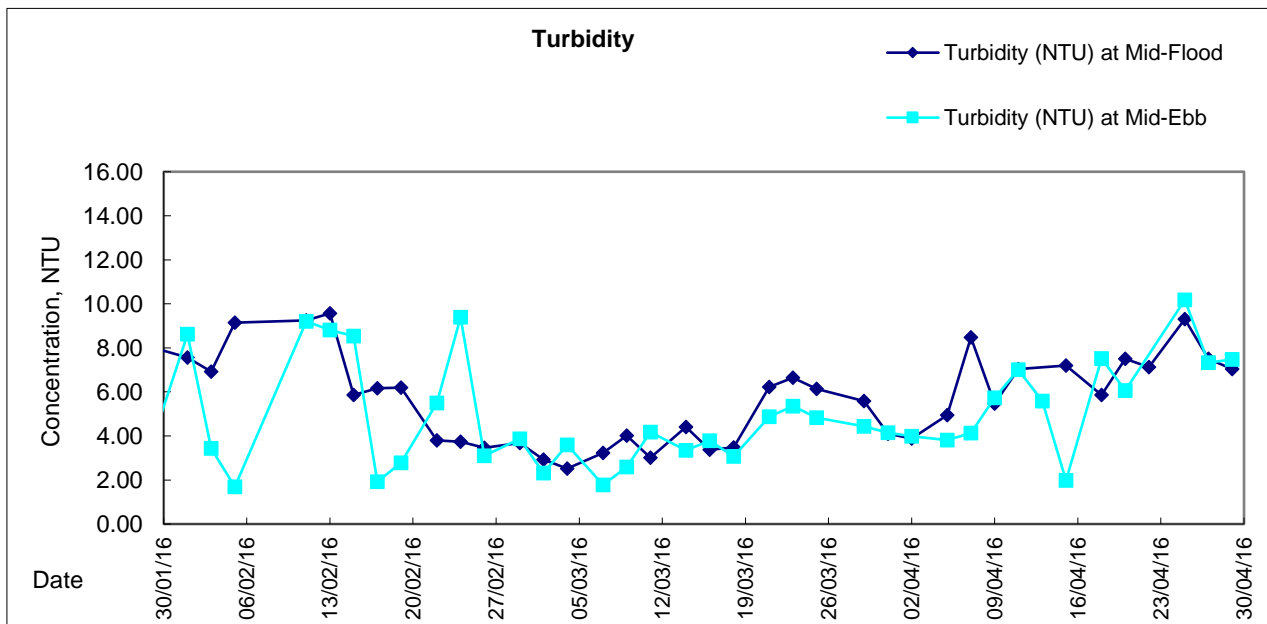
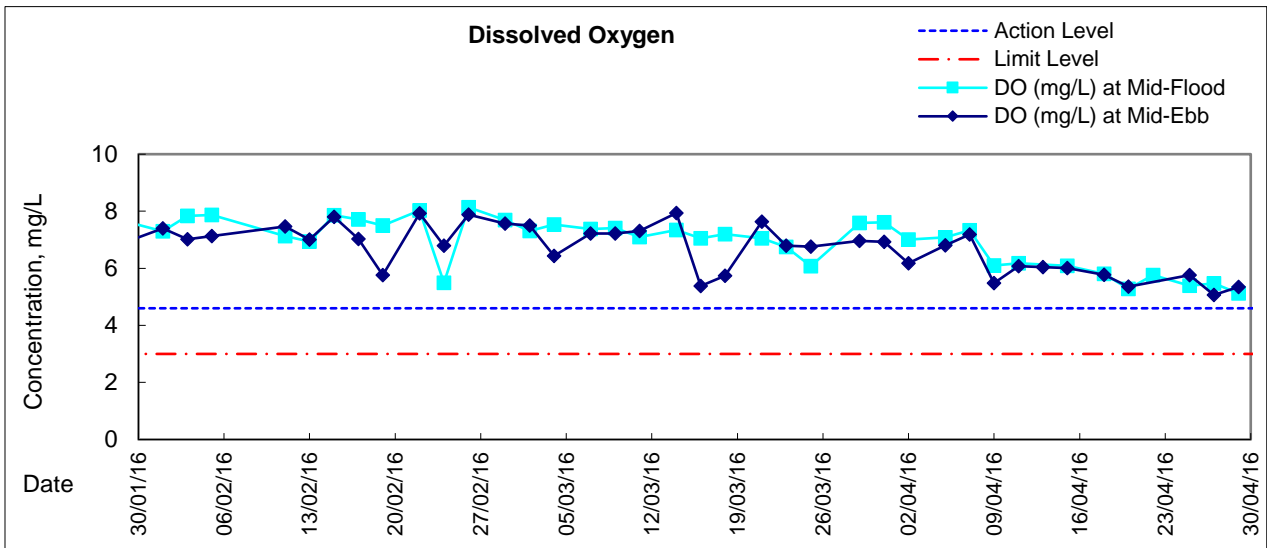
Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-			ppt		%		mg/L		NTU		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
2/4/16	20:05	Cloudy	Middle	3	20.70	20.70	20.75	8.58	8.58	8.55	24.99	24.97	24.98	62.2	63.0	63.2	4.81	4.87	4.89	11.94	11.35	11.64	5	4.50
	20:06		Middle	3	20.80	20.80		8.52	8.52		24.97	24.97		64.1	63.6		4.95	4.91		11.61	11.66		4	
5/4/16	10:11	Fine	Middle	4	20.30	20.30	20.40	8.39	8.39	8.42	30.84	30.84	30.83	90.2	87.6	87.8	6.79	6.58	6.60	3.37	3.35	3.35	3	2.50
	10:13		Middle	4	20.50	20.50		8.44	8.44		30.82	30.82		86.4	86.9		6.50	6.54		3.34	3.33		2	
7/4/16	10:05	Fine	Middle	3	21.20	21.20	21.35	8.39	8.39	8.41	28.74	28.74	28.75	89.3	89.7	89.0	6.68	6.71	6.65	7.63	7.77	7.76	3	2.50
	10:07		Middle	3	21.50	21.50		8.42	8.42		28.75	28.75		88.8	88.0		6.64	6.58		7.80	7.85		2	
9/4/16	14:19	Fine	Middle	4	21.80	21.80	21.95	8.36	8.36	8.39	30.10	30.10	30.58	78.1	77.7	77.8	5.73	5.71	5.71	7.77	7.77	7.72	11	10.50
	14:21		Middle	4	22.10	22.10		8.42	8.42		31.05	31.05		77.7	77.6		5.70	5.70		7.68	7.65		10	
11/4/16	13:40	Cloudy	Middle	4	20.50	20.50	20.60	8.46	8.46	8.48	30.58	30.58	30.58	80.0	80.9	80.1	6.07	6.07	6.03	6.43	6.36	6.39	6	5.00
	13:42		Middle	4	20.70	20.70		8.50	8.50		30.57	30.57		79.9	79.6		5.99	5.97		6.35	6.41		4	
13/4/16	14:37	Cloudy	Middle	4	20.60	20.60	20.65	8.50	8.50	8.51	28.82	28.82	28.82	79.7	79.8	79.4	6.04	6.05	6.01	6.48	6.95	6.73	4	3.50
	14:39		Middle	4	20.70	20.70		8.52	8.52		28.82	28.82		79.4	78.6		6.01	5.95		6.78	6.71		3	
15/4/16	20:46	Cloudy	Middle	3	21.50	21.50	21.57	8.53	8.53	8.52	25.16	25.16	25.16	78.8	78.4	77.8	5.99	5.96	5.94	10.35	10.24	10.25	3	3.00
	20:47		Middle	3	21.60	21.69		8.50	8.50		25.16	25.16		77.6	76.5		5.90	5.92		10.38	10.02		3	
18/4/16	10:43	Cloudy	Middle	4	21.40	21.40	21.45	8.41	8.41	8.45	25.86	25.86	25.86	79.0	75.5	75.2	6.01	5.74	5.71	11.00	11.00	11.00	7	7.50
	10:44		Middle	4	21.50	21.50		8.48	8.48		25.86	25.86		73.3	73.0		5.57	5.50		11.00	11.00		8	
20/4/16	11:44	Cloudy	Middle	4	21.20	21.20	21.20	8.52	8.52	8.53	30.65	30.66	30.63	66.3	65.1	64.7	4.92	4.83	4.80	13.47	13.59	13.63	8	8.00
	11:46		Middle	4	21.20	21.20		8.54	8.54		30.60	30.60		64.1	63.1		4.75	4.69		13.69	13.78		8	
22/4/16	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/4/16	13:45	Fine	Middle	4	24.10	24.10	24.05	8.36	8.36	8.40	29.04	29.04	29.04	77.4	77.6	76.8	5.53	5.54	5.48	11.52	11.28	11.33	8	9.00
	13:47		Middle	4	24.00	24.00		8.44	8.44		29.03	29.03		76.9	75.3		5.49	5.37		11.21	11.31		10	
27/4/16	15:35	Fine	Middle	4	24.60	24.60	24.60	8.24	8.24	8.30	28.81	28.81	28.73	68.0	67.1	66.4	4.83	4.77	4.72	7.49	7.49	7.42	4	3.50
	15:37		Middle	4	24.60	24.60		8.36	8.36		28.66	28.65		65.7	64.9		4.67	4.60		7.37	7.33		3	
29/4/16	16:58	Fine	Middle	4	22.70	22.70	22.70	8.44	8.44	8.47	31.42	31.42	31.41	73.8	73.0	72.6	5.31	5.25	5.23	5.94	5.91	5.93	5	5.00
	17:00		Middle	4	22.70	22.70		8.49	8.49		31.39	31.39		72.5	71.1		5.22	5.12		5.93	5.93		5	

Remarks:

Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 13 April 2016 during flood tide and 22 April 2016 during ebb tide were cancelled.



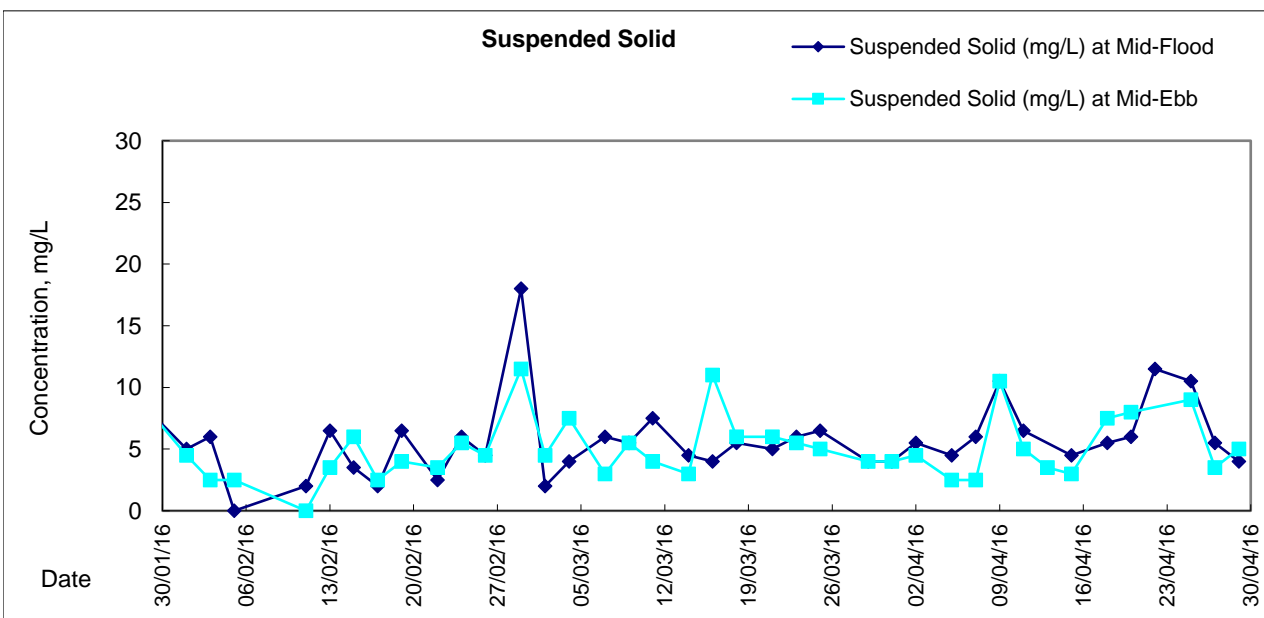
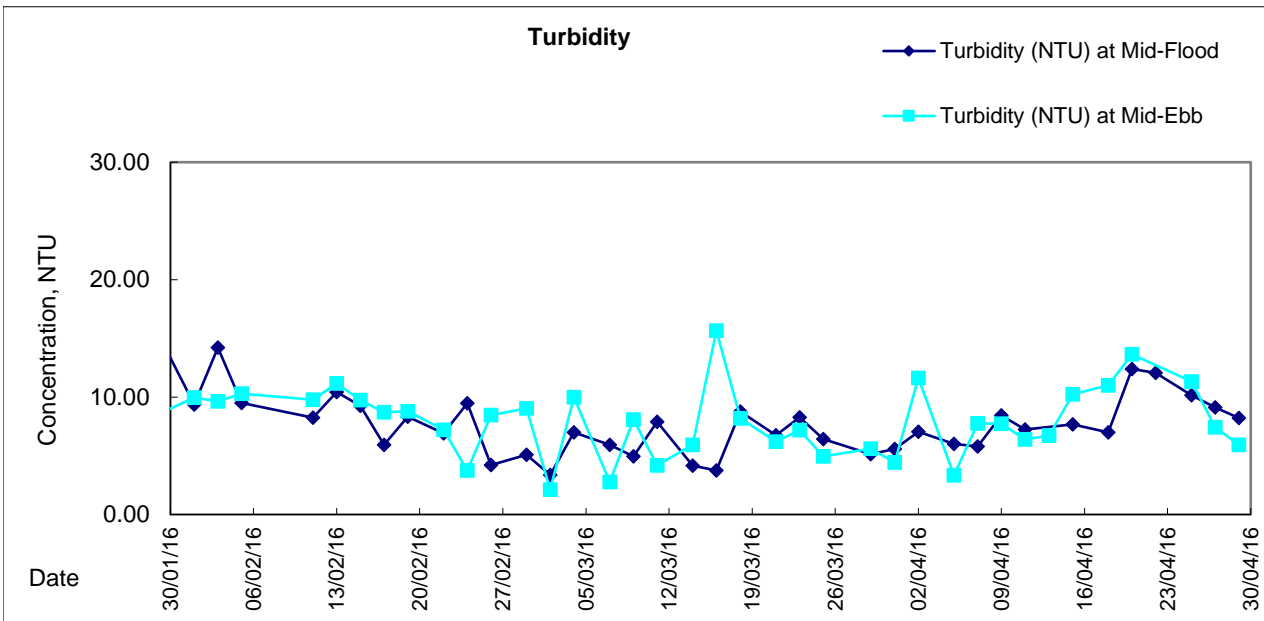
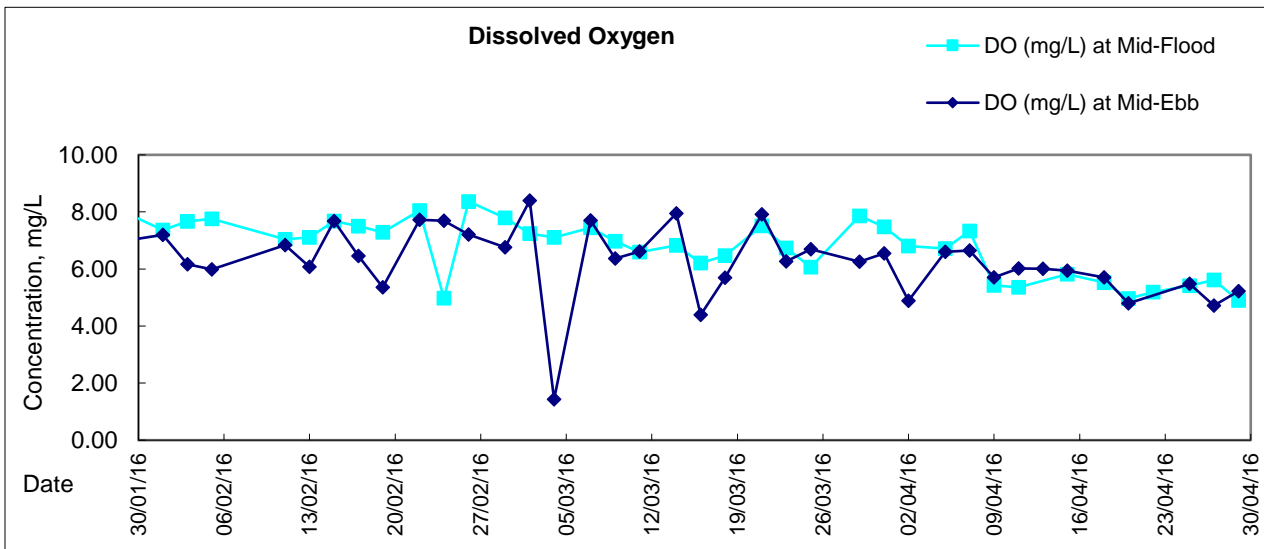
Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups



The construction work during the reporting period include, structural works for tunnel construction, roadworks, drainage works, seawall modification, removal of bulk head wall, P1 Road landscaping works and landscaping establishment work. The weather condition during the reporting period ranges from mostly sunny to rainy. The quarterly mean of suspended solids in this reporting quarter was found to be 4.5 mg/L which was lower than ambient mean of 7.5 mg/L according to the baseline monitoring data.



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





Appendix 5.1

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	<ol style="list-style-type: none"> Identify source Inform IC(E) and ER Repeat measurement to confirm finding Increase monitoring frequency to daily 	<ol style="list-style-type: none"> Check monitoring data submitted by ET Check Contractor's working method 	<ol style="list-style-type: none"> Notify Contractor 	<ol style="list-style-type: none"> Rectify any unacceptable practice Amend working methods if appropriate
Action Level - Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Identify source Inform IC(E) and ER Repeat measurement to confirm finding Increase monitoring frequency to daily Discuss with IC(E) and Contractor on remedial actions If exceedance continues, arrange meeting with IC(E) and ER If exceedance stops cease additional monitoring 	<ol style="list-style-type: none"> Check monitoring data submitted by ET Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented 	<ol style="list-style-type: none"> Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate
Limit Level - Exceedance for one sample	<ol style="list-style-type: none"> Identify source Inform ER and EPD Repeat measurement to confirm findings Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 	<ol style="list-style-type: none"> Check monitoring data submitted by ET Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented 	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance Submit proposal for remedial actions to IC(E) within 3 working days of notification Implement the agreed measures
Limit Level - Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Notify IC(E), ER, Contractor and EPD Identify source Repeat measurements to confirm findings Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> Discuss amongst ER, ET, and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented Ensure remedial measures properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated

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

Event and Action Plan for Noise Quality				
Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level is reached	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposal to IC(E) 2. Implement noise mitigation proposals
Limit Level is reached	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 6.1

Complaint Log



Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150211	21/1/2015	EPD complaint (EPD Ref.: H04/RS/000171 6-15) received by ET on 11 February 2015	Construction site opposite to CITIC Tower	Construction dust was emitted from a construction site opposite to CITIC Tower	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	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	<p>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.</p> <p>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.</p> <p>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.</p>	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)	<p>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.</p> <p>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.</p>	Closed



Appendix 8.1

Construction Programme of Individual Contracts



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015				2016					
					Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar		
HK/2012/08 Three Months Rolling Programme (Dec 2015 to Feb 2016)														
Dredging and Reclamation														
Marine Work Construction														
Zone CRIII														
Seawall Construction - Zone CRIII														
Zone CRIII Seawall- 2nd Stage														
Seawall 2 & 12														
MAR20580	Zone CRIII - fill rock mound for Seawall 2 & 12 and Trimming	16	01-Feb-16	24-Feb-16										
MAR20600	Zone CRIII - lay toe block and level stone for Seawall 2 & 12	16	24-Feb-16	12-Mar-16										
Zone CRIII Seawall- 1st Stage														
Seawall 1														
MAR21265	Zone CRIII - fill rock mound for Seawall 1	6	30-Nov-15	05-Dec-15										
MAR21266	Zone CRIII - lay toe block and level stone for Seawall 1	7	07-Dec-15	14-Dec-15										
MAR21340	Zone CRIII - install block seawall 1	14	15-Dec-15	02-Jan-16										
Filling - Zone CRIII														
MAR10460	Zone CRIII - general fill to +4.0mPD	45	05-Jan-16	03-Mar-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	40	30-Nov-15	18-Jan-16										
CWB CRIII - Tunnel Structure														
SIIA10840	Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay 1)	45	02-Dec-15	26-Jan-16										
SIIA10860	Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay 2)	45	27-Jan-16	24-Mar-16										
SIIA10880	Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay 3)	45	02-Dec-15	26-Jan-16										
SIIA10900	Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay 4)	45	27-Jan-16	24-Mar-16										
CWB A1 - ELS & Tunnel Structure														
CWB A1 - ELS Remaining														
SIIA11286	Sec IIA - CWB A1 : Shoring & Excavation (Remaining)	2	30-Sep-15 A	01-Dec-15										
CWB A1 - Tunnel Structure Remaining														
SIIA13045	Sec II A - CWB A1: Pile head + trough + base & wall + OHVD unit (Bay 1)	45	02-Dec-15	26-Jan-16										
SIIA13048	Sec IIA - CWB A1 : Pile head + trough + base & wall + OHVD (Bay 3)	45	02-Dec-15	26-Jan-16										
SIIA13050	Sec II A - CWB A1: Pile head + trough + base & wall + OHVD unit (Bay 2)	45	27-Jan-16	24-Mar-16										

Data Date: 30-Nov-15

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

Works Programme for Zone CRIII (Dec 2015 to Feb 2016)

Date	Revision	Checked	Approved
29-Dec-15			



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015		2016	
					Dec	Jan	Feb	Mar
Section III - Road D11 & Part of Road P2, Area 4, Implement 1st Stage ITA								
Roadwork & Utilities								
General								
SIII10040	Sec III - roadwork & utilities - storm water drain & subsoil drain	25	01-May-15 A	30-Dec-15				
SIII10060	Sec III - roadwork & utilities - Watermain & Irrigation Mains	26	07-Jul-15 A	31-Dec-15				
SIII10080	Sec III - roadwork & utilities - gas main and valve chamber	36	14-Oct-15 A	13-Jan-16				
SIII10100	Sec III - roadwork & utilities - HEC cable duct and catchpit	37	11-Nov-15 A	14-Jan-16				
SIII10120	Sec III - roadwork & utilities - sub-base	47	07-Oct-15 A	26-Jan-16				
SIII10140	Sec III - roadwork & utilities - Road kerb	47	03-Dec-15 A	26-Jan-16				
SIII10180	Sec III - roadwork & utilities - Road Lighting, TCSS Ducts & Traffic Signs	48	02-Dec-15	29-Jan-16				
SIII10200	Sec III - roadwork & utilities - pave footpath concrete	42	09-Dec-15	29-Jan-16				
SIII10220	Sec III - roadwork & utilities - lay footpath concrete paver	39	12-Dec-15	29-Jan-16				



Activity Name	Activity ID	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete	2016			
							Mar	Apr	May	Jun
HK/2012/08 Revised Works Programme Rev.6 _Updated as of 20-Mar-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										
Sec II A - CWB CRIII: Demolish Bulkhead at West End	SIIA10960	10	29-Feb-16 A	31-Mar-16	-73	64.29%				
CWB CRIII & A1 - Tunnel Structure										
Sec IIA - CWB CRIII & A1: Bay 2 - Base, Wall, OHVD & Roof	SIIA10980	10	31-Dec-15 A	29-Mar-16	-33	70%				
Sec IIA - CWB CRIII & A1: Bay 4 south - Base & Wall	SIIA11165	12	04-Mar-16 A	31-Mar-16	-35	73.33%				
Sec IIA - CWB CRIII & A1: Bay 4 north - Base & Wall	SIIA11180	11	04-Mar-16 A	30-Mar-16	-34	75.56%				
Sec IIA - CWB CRIII & A1: Bay 5 - Base, Wall & Roof	SIIA11200	48	06-Mar-16 A	06-May-16	-71	20%				
Sec IIA - CWB CRIII & A1: Bay 6 north - Base & Wall	SIIA11320	11	05-Mar-16 A	30-Mar-16	-34	75.56%				
Sec IIA - CWB CRIII & A1: Bay 6 south - Base & Wall	SIIA11340	10	23-Mar-16 A	29-Mar-16	-33	77.78%				
Sec IIA - CWB CRIII & A1: Bay 7 - Base, Wall, OHVD & Roof	SIIA11360	52	01-Apr-16	22-May-16	-87	0%				
CWB CRIII - Other Works										
Sec II A - CWB CRIII: curing and dismantle fwk (@ Bay 1)	SIIA10940	7	23-May-16	30-May-16	-68	0%				
Sec II A - CWB CRIII: waterproofing and backfill for Culvert K	SIIA10945	12	31-May-16	14-Jun-16	-68	0%				
Sec II A - CWB CRIII: reinstatement of culvert K after tunnel complete	SIIA11000	45	15-Jun-16	06-Aug-16	-68	0%				
CWB CRIII & A1 - Associated Facilities										
CWB CRIII & A1 - Associated Facilities										
Sec II A - CWB CRIII & A1: Civil Provisions - lay screeding	SIIA14700	15	23-May-16	06-Jun-16	-5	0%				
Sec II A - CWB CRIII & A1: Civil Provisions - cast cable trough	SIIA14940	15	07-Jun-16	21-Jun-16	-5	0%				



Data Date:
20-Mar-16

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

**3-Months Rolling Programme for CRIII Area
(Ref. to DWP Rev.6)**

Date	Revision	Checked	Approved
30-Mar-16	Rev. 1		

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

	2016			
	January	February	March	April
Road P1				
Footpath - Landscaping Works				
Establishment Works				
LEGEND:	Three Month Rolling Programme			Update on 26.02.2016
	Actual Works			
	Remaining Works			

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

		2016			
		February	March	April	May
Road P1					
Establishment Works					
LEGEND:		Three Month Rolling Programme			
	Actual Works				
	Remaining Works				
					Update on 26.03.2016

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

		2016			
		March	April	May	June
Road P1					
Establishment Works					
LEGEND:		Three Month Rolling Programme			
	Actual Works				
	Remaining Works				
					Update on 26.04.2016