



Lam Geotechnics Limited

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

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**

- MAY 2018 TO JULY 2018 -

CLIENTS:

**Civil Engineering and Development
Department**

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DATE:

24 August 2018

Ref.: AACWBIECEM00_0_10650L.18

21 August 2018

AECOM Asia Company Limited
11/F, Tower 2
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Hong Kong

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Quarterly Environmental Monitoring and Audit Report (May 2018 - July 2018) 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 May 2018 - July 2018 received by e-mail on 20 August 2018.

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 – **May 2018 to July 2018** 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 May 2018 to 31st July 2018**.
- 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 Contract 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

May 2018	June 2018	July 2018
<ul style="list-style-type: none">• Roadworks• Drainage• Asphalt paving	<ul style="list-style-type: none">• Roadworks• Drainage	<ul style="list-style-type: none">• Roadworks• Drainage• Seawall coping

Contract no. HY/2010/08 – Central- Wan Chai Bypass(CWB) – Tunnel (Slip Road 8)

Table 1.2 Principal Work Activities in the reporting period for Contract no. HY/2010/08

July 2018
<ul style="list-style-type: none">• Junction modification

Noise Monitoring

- iv. Continuous noise monitoring was conducted at ACL3 – City Hall.
- v. No action or limit level exceedance was recorded in May and July 2018 reporting month.
- vi. Limit level exceedances were recorded at ACL3 – City Hall on 13, 23, 25 and 30 June 2018 during daytime in June 2018 reporting month.

After the investigation, the exceedance was considered as non-project related.

- vii. 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

- viii. No action or limit level exceedance was recorded at ACL1 – City Hall and ACL2a – Contractor HK/2012/08 Site office in May, June and July 2018 reporting month.
- ix. Due to interruption of electricity, the 24hr TSP monitoring at ACL2a was rescheduled from 5, July 2018 to 6 July 2018.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. Air Quality Monitoring at ACL2 was temporarily suspended during the period from 14th November, 2013 to 3rd December, 2013.
- xiv. The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- xv. 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.
- xvi. The air quality monitoring at ACL2a – Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

Water Quality Monitoring

- xvii. 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.
- xviii. Water quality monitoring at M5B and Culvert J were conducted three days per weeks during the reporting period starting from 26 September 2014.
- xix. One action level exceedance of suspended solids was recorded at M5B – Central Cooling Intake on 12 May 2018 during flood tide in May reporting month. After the investigation, the exceedances were concluded as non-project related.

- xx. One action level exceedance of dissolved oxygen was recorded at M5B – Central Cooling Intake on 23 May 2018 during ebb tide in May reporting month. After the investigation, the exceedances were concluded as non-project related.
- xxi. No action or level exceedances was recorded at M5B – Central Cooling Intake in June 2018 reporting month.
- xxii. Due to the hoisting of Tropical Cyclone Warning Signal No. 3 and safety consideration under adverse weather condition, the water quality monitoring event on 18 July 2018 during flood tide was cancelled.
- xxiii. One action level exceedances of dissolved oxygen were recorded at M5B – Central Cooling Intake on 16 July 2018 during flood tide in July reporting month. After investigation, the exceedances were concluded as non-project related.
- xxiv. One action level exceedances of dissolved oxygen were recorded at M5B – Central Cooling Intake on 20 July 2018 during ebb tide in July reporting month. After investigation, the exceedances were concluded as non-project related.

Complaints, Notifications of Summons and Successful Prosecutions

- xxv. One environmental complaint was received in June 2018 reporting month.

An EPD complaint was referred to the ET on 25 June 2018 (CASE Ref: H05/RS/000015459-18). The complainant reported that: muddy water discharge was found at the site outside Lung Wo Road on 5 June 2018 afternoon.

Based on the site records confirmed by RSS, installation of metal formwork at seawall was carried out on 5 June 2018 afternoon and mitigation measure including placing rock fill material on slope surface was implemented at the concerned location to reduce surface runoff.

Follow up site inspection was conducted by the Environmental Team on 26 June 2018, no muddy water discharge or surface runoff related water quality impact was observed at construction area under HK/2012/08 near the concerned area.

Nevertheless, in view of the public concern, the Contractor of HK/2012/08 was reminded to provide addition tarpaulin covering to the slope surface along the seawall around the concerned location to reduce the potential surface runoff and maintain regular checking on the embankment condition to ensure no gap / void to avoid potential seepage / surface runoff to nearby water.

The interim report was submitted to EPD on 4 July 2018.

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 May 2018](#) to [31st July 2018](#).

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

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

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

Table 2.1 Schedule 2 Designated Projects under this Project

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

- 2.2.4. Contract HK/2012/08 – Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West as part of the Project works by Civil Engineering and Development Department (CEDD) is associated with Designated Project 1 (DP1) and Designated Project 2 (DP2).
- 2.2.5. Contract HY/2010/08 – Central Wanchai Bypass – Tunnel as part of the Project works by the Highways Department (HyD) is associated with Designated Project 2 (DP2).

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	Chief Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3922 3388	3912 3010
China State-Leader JV	Contractor under Contract no. HK/2012/08	Project Director	C. N. LAI	9106 5806	2877 1522
		Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. Ho	9856 5669	
China State	Contractor under Contract no. HY/2010/08	Project Director	Mr. Chris Leung	3467 4299	2566 8061
		Project Manager	Mr. Chan Ying Lun	3418 3001	
		Site Agent	Mr. Thomas Lui	3557 6452	
		Marine Manager	Mr. Nickael Chan	3557 6333	
		Construction Manager	Mr. Tom Tong	3557 6367	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	
Ramboll 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

May 2018	June 2018	July 2018
<ul style="list-style-type: none"> • Roadworks • Drainage • Asphalt paving 	<ul style="list-style-type: none"> • Roadworks • Drainage 	<ul style="list-style-type: none"> • Roadworks • Drainage • Seawall coping

Contract no. HY/2010/08 – Central- Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

Table 2.4 Principal Work Activities in the reporting period for Contract no. HY/2010/08

July 2018
<ul style="list-style-type: none"> • Junction modification

- 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 ™ 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

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

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.

- 4.1.2 No action or limit level exceedances were recorded at ACL3 – City Hall in May and July 2018 reporting month.
- 4.1.3 Limit level exceedances were recorded at ACL3 – City Hall on 13, 23, 25 and 30 June 2018 during daytime in June reporting month.

After investigation, no construction works was conducted under Contractor HK/2012/08 at CRIII area on 13 and 23 June 2018. Meanwhile, adverse weather condition was recorded during the reporting period and was considered as potential noise contribution. As such, the exceedances were considered as non-Project related.

After investigation, no construction works was conducted by Contractor HK/2012/08 at CRIII area on 25 June 2018. Meanwhile, Dragon Boat Event was held at area opposite to the

monitoring station during the concerned period and was considered as the major noise contribution. As such, the exceedance was considered as non-project related.

After investigation, no construction works was conducted by Contractor HK/2012/08 at CR III area on 30 June 2018. Meanwhile, Mercedes Benz Launches New A-Class Festival was held at area opposite to the monitoring station during the concerned period and considered as the major noise contribution. As such, the exceedance was considered as non-project related.

Contract no. HY/2010/08 – Central- Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

- 4.1.4 As confirmed with CWB RSS, junction modification works in Central area would be conducted by Contract HY/2010/08 starting from July 2018 and tentatively completed in September 2018. The continuous noise monitoring station ACL3 located at City Hall would tentatively associated with Contract HY/2010/08.
- 4.1.5 The proposed division of noise monitoring stations is summarized in **Table 4.2** below.

Table 4.2 Continuous Noise Monitoring Stations for Contract no. HY/2010/08

Location ID	District	Description
ACL3	Central	City Hall

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

- 4.1.6 No action or limit level exceedances were recorded at ACL3 – City Hall in July reporting month.
- 4.1.7 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 4.3** below.

Table 4.3 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 at ACL1 – City Hall and ACL2a – Contractor HK/2012/08 Site office in May, June and July 2018 reporting month.

- 4.2.9 Due to interruption of electricity, the 24hr TSP at Contractor HK/2012/08 Site Office was rescheduled from 5 July 2018 to 6 July 2018.

Contract no. HY/2010/08 – Central- Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

- 4.2.10 As confirmed with CWB RSS, junction modification works in Central area would be conducted by Contract HY/2010/08 starting from July 2018 and tentatively completed in September 2018. The air quality monitoring station ACL1 located at City Hall would tentatively associated with Contract HY/2010/08.

- 4.2.11 The proposed division of air quality monitoring stations are summarized in **Table 4.4** below.

Table 4.4 Air Quality Monitoring Station for Contract no. HY/2010/08

Station	Description
ACL1	City Hall

- 4.2.12 No action or limit level exceedance was recorded at ACL1 – City Hall in July reporting month.

- 4.2.13 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 4.5** below.

Table 4.5 Water Quality Monitoring Station for Contract no. HK/2012/08

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

- 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 4.6** 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 One action level exceedance of suspended solids was recorded at M5B – Central Cooling Intake on 12 May 2018 during flood tide in May reporting month.

No marine construction activity was conducted under Contract HK/2012/08 on the monitoring date while nearby culvert discharge was observed. In view of no marine construction activity conducted, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 14 May 2018 ebb tide.

- 4.3.5 One action level exceedance of dissolved oxygen was recorded at M5B – Central Cooling Intake on 23 May 2018 during flood tide in the reporting month.

No marine construction activity was conducted under Contract HK/2012/08 on the monitoring date while nearby culvert discharge was observed. In view of no marine construction activity conducted, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 25 May 2018 ebb tide.

- 4.3.6 Due to the hoisting of amber rainstorm warning signal, the water quality monitoring event on 13 June 2018 during flood tide was cancelled.

- 4.3.7 No action or limit level exceedance was recorded at M5B – Central Cooling Intake in June reporting month.

- 4.3.8 Due to the hoisting of Tropical Cyclone Warning Signal No. 3 and safety consideration under adverse weather condition, the water quality monitoring event on 18 July 2018 during flood tide was cancelled.

- 4.3.9 One action level exceedances of dissolved oxygen were recorded at M5B – Central Cooling Intake on 16 July 2018 during flood tide.

After investigation, no marine construction activity was conducted under Contract HK/2012/08 on the monitoring date while nearby culvert discharge was observed. In view of no marine construction activity conducted that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 16 July 2018 ebb tide.

- 4.3.10 One action level exceedances of dissolved oxygen were recorded at M5B – Central Cooling Intake on 20 July 2018 during ebb tide.

After investigation, no marine construction activity was conducted under Contract HK/2012/08 on the monitoring date while nearby culvert discharge was observed. Location of construction area was located at downstream of M5B monitoring station during monitoring period. In view of above, it was considered that the exceedance was not related to Project. No exceedance was recorded on the subsequent monitoring on 21 July 2018 flood tide.

Table 4.6 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	1	0	1	0	2	0	0	0
	Culvert J ¹	-	-	-	-	-	-	-	-
Total		1	0	1	0	2	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 4.7**

Table 4.7 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, m ³	0 0	8005 51779	TM38 TKO137
Inert C&D materials recycled, m ³	NIL	NIL	NIL
Non-inert C&D materials disposed, m ³	0	1925	SENT Landfill
Non-inert C&D materials recycled, m ³	NIL	NIL	NIL
Chemical waste disposed, kg	NIL	NIL	NIL

Contract no. HY/2010/08 – Central- Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

4.4.2 Inert and non-inert C&D wastes were disposed in this reporting month. Details of the waste flow table are summarized in **Table 4.8**

Table 4.8 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	NIL	NIL
Inert C&D materials recycled, m ³	NIL	NIL	NIL
Non-inert C&D materials disposed, m ³	NIL	NIL	NIL
Non-inert C&D materials recycled, m ³	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 May and July 2018 reporting month.
- 5.1.2 Limit level exceedances were recorded at ACL3 – City Hall on 13, 23, 25 and 30 June 2018 during daytime in June 2018 reporting month. After the investigation, the exceedance was considered as non-project related.

Contract Contract no. HY/2010/08 – Central- Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

- 5.1.3 No action or limit level exceedances were recorded at ACL3 – City Hall in July reporting month.

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 May, June and July 2018 reporting period.

Contract Contract no. HY/2010/08 – Central- Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

- 5.2.2 No action or limit level exceedance was recorded at ACL1 – City Hall and ACL2a – Contractor HK/2012/08 Site Office in July reporting month.

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 One action level exceedance of suspended solids was recorded at M5B – Central Cooling Intake on 12 May 2018 during flood tide in May reporting month. After the investigation, the exceedances were concluded as non-project related.
- 5.3.2 One action level exceedance of dissolved oxygen was recorded at M5B – Central Cooling Intake on 23 May 2018 during ebb tide in May reporting month. After the investigation, the exceedances were concluded as non-project related.
- 5.3.3 No action or level exceedances was recorded at M5B – Central Cooling Intake in June 2018 reporting month.
- 5.3.4 Due to the hoisting of Tropical Cyclone Warning Signal No. 3 and safety consideration under adverse weather condition, the water quality monitoring event on 18 July 2018 during flood tide was cancelled.
- 5.3.5 One action level exceedances of dissolved oxygen were recorded at M5B – Central Cooling Intake on 16 July 2018 during flood tide in July reporting month. After investigation, the exceedances were concluded as non-project related.
- 5.3.6 One action level exceedances of dissolved oxygen were recorded at M5B – Central Cooling Intake on 20 July 2018 during ebb tide in July reporting month. After investigation, the exceedances were 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. One environmental complaint was received in June 2018 reporting month.

An EPD complaint was referred to the ET on 25 June 2018 (CASE Ref: H05/RS/000015459-18). The complainant reported that: muddy water discharge was found at the site outside Lung Wo Road on 5 June 2018 afternoon.

Based on the site records confirmed by RSS, installation of metal formwork at seawall was carried out on 5 June 2018 afternoon and mitigation measure including placing rock fill material on slope surface was implemented at the concerned location to reduce surface runoff.

Follow up site inspection was conducted by the Environmental Team on 26 June 2018, no muddy water discharge or surface runoff related water quality impact was observed at construction area under HK/2012/08 near the concerned area.

Nevertheless, in view of the public concern, the Contractor of HK/2012/08 was reminded to provide addition tarpaulin covering to the slope surface along the seawall around the concerned location to reduce the potential surface runoff and maintain regular checking on the embankment condition to ensure no gap / void to avoid potential seepage / surface runoff to nearby water.

The interim report was submitted to EPD on 4 July 2018.

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	4
May 2018 – July 2018	1
Project-to-Date	5

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 road and drains construction and removal of temporary reclamation at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building construction junction modification at Central; reinstatement works along Causeway Bay Typhoon Shelter, road works and landscape works at Victoria Park; bridge construction, approach ramp construction, landscape deck construction, drainage construction and ventilation building construction at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.4. 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](#).




Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)


Figure 2.1

Project Layout



Designated Project 1 - Reclamation
Layout Plan and Section

Figure 14.9



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

Figure 14.10





Figure 14.11



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

Figure 14.12



Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

Figure 2.2

Project Organization Chart

Project Organization Chart

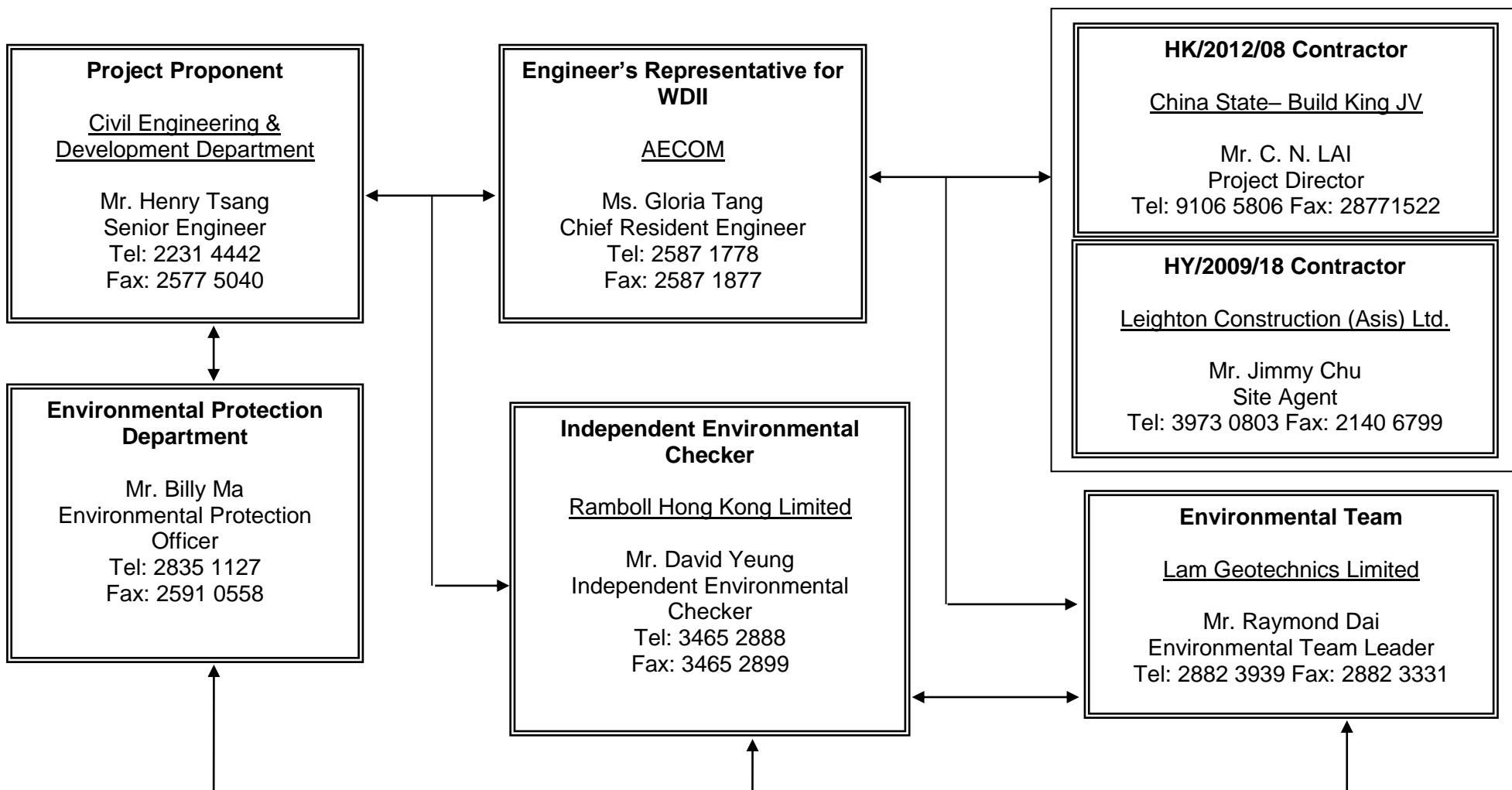


Figure 2.2



Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

Figure 3.1

Locations of Environmental Monitoring Stations



LEGEND:

DUST MONITORING STATION

NOISE MONITORING STATION

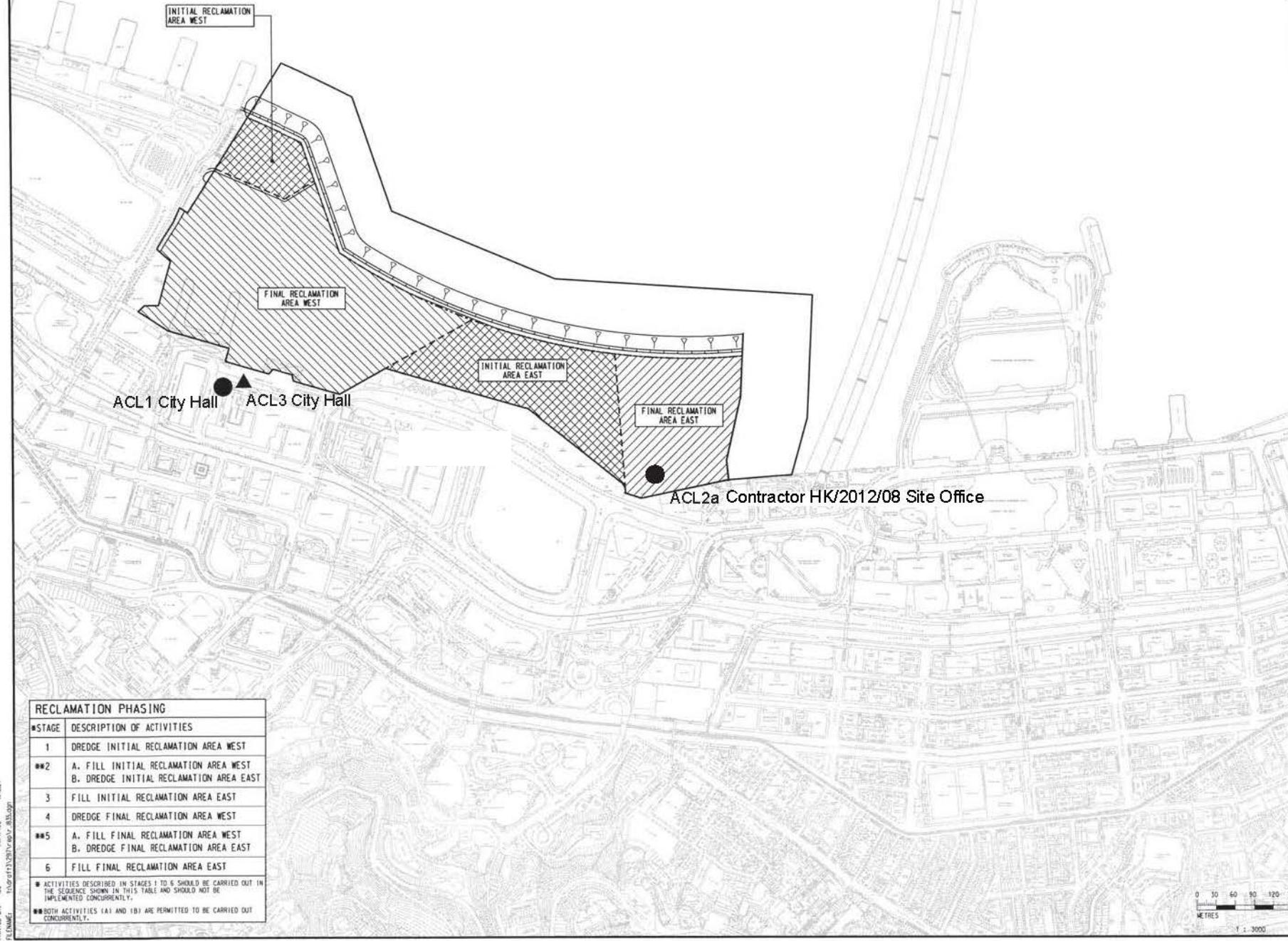
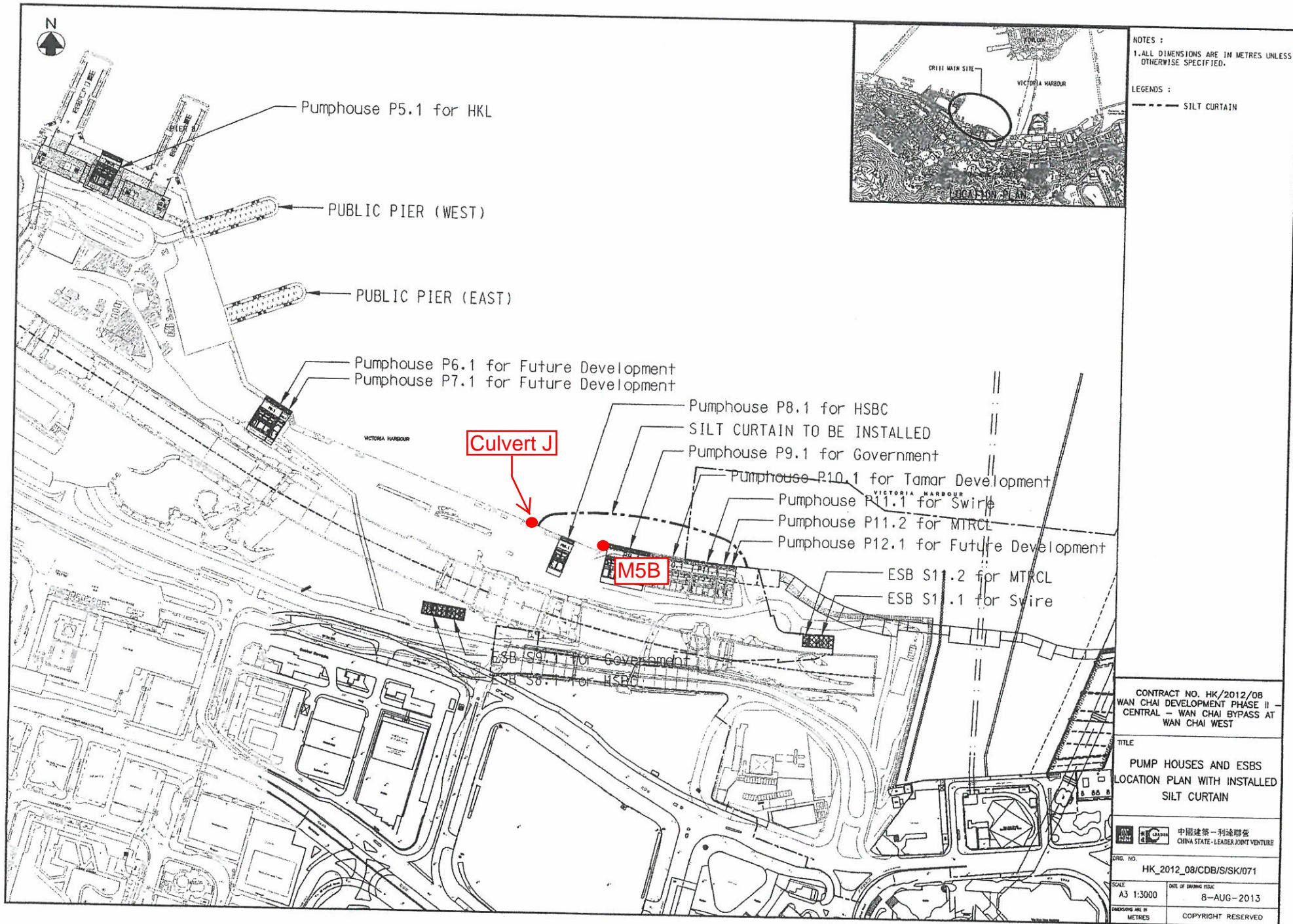


Fig 4.1 Location of monitoring stations





Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

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 of 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
		<ul style="list-style-type: none">· Mobile plant, if any, should be sited as far away from noise sensitive facilities as possible.· 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.· 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
			TDD's Contractor	Works Area During construction End of construction	Implemented during Construction Stage	P,R,A,C	4
			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 activites.	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 Maine 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	Reclamation Areas as appropriate When CRIII and WDII - Dredging and Filling Works occur concurrently End of Concurrent Works	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>		Whole reclamation area During construction At end of construction	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	Culvert L Outfall During Construction To handover to WDII Contractor	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	Works Area During construction End of construction	Implemented during Construction Stage	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	Work Area During construction End of construction	Implemented during Construction Stage	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	Work Area During construction End of construction	Implemented during Construction Stage	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
		system, it should be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.					
		<ul 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	<p>Whole Reclamation Area</p> <p>During Reclamation Works</p> <p>End of Reclamation Work</p>	<p>Implemented during Construction Stage</p>	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. 					
		<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	<p>Works Areas</p> <p>During Construction</p> <p>End of Construction</p>	<p>Implemented during Construction Stage</p>	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
		<p>and the Crown Land Ordinance;</p> <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	<p>Construction stage landscape and visual mitigation measures should include :</p> <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	<p>Area wide during design and contract preparation</p>	<p>Implemented during Design Stage</p>	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	<p>TDD*/Contractor/ RSS</p> <p>TDD's design consultant</p>	<p>Works areas During construction End of construction and within one year of operational phase</p> <p>Area wide during design and contract preparation</p>	<p>Implemented during Construction Stage</p> <p>Implemented during Design Stage</p>	<p>P, R, A, C</p> <p>P, R, A, C</p>	<p>1</p> <p>11,12,13,14</p>



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.



Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

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 µg/m³		24-hour TSP Level in µg/m³	
	Action Level	Limit Level	Action Level	Limit Level
ACL1 - City Hall	460	500	163	260
ACL2a - Contractor HK/2012/08 Site Office	300.1	500	187.3	260

Action and Limit Level for Water Quality Monitoring

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



Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

Appendix 4.1

Noise Monitoring Graphical Presentations

Continuous Noise Monitoring Data		ACL3 (City Hall)					
Normal Day 07:00-19:00	7/5/2018 13:01 67	12/5/2018 07:31 65	17/5/2018 14:01 66	24/5/2018 08:31 68	29/5/2018 15:01 67		
2/5/2018 07:01	64	7/5/2018 13:31 67	12/5/2018 08:01 65	17/5/2018 14:31 66	24/5/2018 09:01 67	29/5/2018 15:31 66	
2/5/2018 07:31	65	7/5/2018 14:01 67	12/5/2018 08:31 66	17/5/2018 15:01 67	24/5/2018 09:31 67	29/5/2018 16:01 66	
2/5/2018 08:01	65	7/5/2018 14:31 66	12/5/2018 09:01 66	17/5/2018 15:31 67	24/5/2018 10:01 67	29/5/2018 16:31 66	
2/5/2018 08:31	66	7/5/2018 15:01 67	12/5/2018 09:31 66	17/5/2018 16:01 67	24/5/2018 10:31 66	29/5/2018 17:01 67	
2/5/2018 09:01	66	7/5/2018 15:31 66	12/5/2018 10:01 67	17/5/2018 16:31 67	24/5/2018 11:01 67	29/5/2018 17:31 67	
2/5/2018 09:31	66	7/5/2018 16:01 67	12/5/2018 10:31 66	17/5/2018 17:01 66	24/5/2018 11:31 67	29/5/2018 18:01 67	
2/5/2018 10:01	66	7/5/2018 16:31 66	12/5/2018 11:01 67	17/5/2018 17:31 66	24/5/2018 12:01 66	29/5/2018 18:31 67	
2/5/2018 10:31	66	7/5/2018 17:01 66	12/5/2018 11:31 66	17/5/2018 18:01 66	24/5/2018 12:31 66	30/5/2018 07:01 64	
2/5/2018 11:01	67	7/5/2018 17:31 67	12/5/2018 12:01 66	17/5/2018 18:31 67	24/5/2018 13:01 67	30/5/2018 07:31 66	
2/5/2018 11:31	66	7/5/2018 18:01 66	12/5/2018 12:31 66	18/5/2018 07:01 63	24/5/2018 13:31 66	30/5/2018 08:01 66	
2/5/2018 12:01	66	7/5/2018 18:31 66	12/5/2018 13:01 66	18/5/2018 07:31 65	24/5/2018 14:01 66	30/5/2018 08:31 66	
2/5/2018 12:31	66	8/5/2018 07:01 64	12/5/2018 13:31 66	18/5/2018 08:01 66	24/5/2018 14:31 66	30/5/2018 09:01 66	
2/5/2018 13:01	66	8/5/2018 07:31 65	12/5/2018 14:01 66	18/5/2018 08:31 66	24/5/2018 15:01 66	30/5/2018 09:31 71	
2/5/2018 13:31	66	8/5/2018 08:01 66	12/5/2018 14:31 66	18/5/2018 09:01 66	24/5/2018 15:31 67	30/5/2018 10:01 66	
2/5/2018 14:01	68	8/5/2018 08:31 67	12/5/2018 15:01 67	18/5/2018 09:31 66	24/5/2018 16:01 67	30/5/2018 10:31 67	
2/5/2018 14:31	66	8/5/2018 09:01 67	12/5/2018 15:31 67	18/5/2018 10:01 67	24/5/2018 16:31 67	30/5/2018 11:01 66	
2/5/2018 15:01	66	8/5/2018 09:31 67	12/5/2018 16:01 67	18/5/2018 10:31 67	24/5/2018 17:01 67	30/5/2018 11:31 66	
2/5/2018 15:31	66	8/5/2018 10:01 68	12/5/2018 16:31 67	18/5/2018 11:01 66	24/5/2018 17:31 66	30/5/2018 12:01 66	
2/5/2018 16:01	66	8/5/2018 10:31 68	12/5/2018 17:01 67	18/5/2018 11:31 66	24/5/2018 18:01 67	30/5/2018 12:31 66	
2/5/2018 16:31	66	8/5/2018 11:01 67	12/5/2018 17:31 67	18/5/2018 12:01 66	24/5/2018 18:31 67	30/5/2018 13:01 66	
2/5/2018 17:01	66	8/5/2018 11:31 67	12/5/2018 18:01 66	18/5/2018 12:31 66	25/5/2018 07:01 65	30/5/2018 13:31 66	
2/5/2018 17:31	67	8/5/2018 12:01 66	12/5/2018 18:31 67	18/5/2018 13:01 66	25/5/2018 07:31 66	30/5/2018 14:01 67	
2/5/2018 18:01	66	8/5/2018 12:31 66	14/5/2018 07:01 64	18/5/2018 13:31 68	25/5/2018 08:01 66	30/5/2018 14:31 66	
2/5/2018 18:31	67	8/5/2018 13:01 67	14/5/2018 07:31 65	18/5/2018 14:01 67	25/5/2018 08:31 67	30/5/2018 15:01 66	
3/5/2018 07:01	64	8/5/2018 13:31 68	14/5/2018 08:01 66	18/5/2018 14:31 66	25/5/2018 09:01 67	30/5/2018 15:31 66	
3/5/2018 07:31	65	8/5/2018 14:01 66	14/5/2018 08:31 66	18/5/2018 15:01 67	25/5/2018 09:31 67	30/5/2018 16:01 67	
3/5/2018 08:01	66	8/5/2018 14:31 66	14/5/2018 09:01 66	18/5/2018 15:31 66	25/5/2018 10:01 66	30/5/2018 16:31 66	
3/5/2018 08:31	67	8/5/2018 15:01 66	14/5/2018 09:31 66	18/5/2018 16:01 67	25/5/2018 10:31 66	30/5/2018 17:01 66	
3/5/2018 09:01	67	8/5/2018 15:31 66	14/5/2018 10:01 67	18/5/2018 16:31 66	25/5/2018 11:01 66	30/5/2018 17:31 67	
3/5/2018 09:31	67	8/5/2018 16:01 67	14/5/2018 10:31 66	18/5/2018 17:01 67	25/5/2018 11:31 67	30/5/2018 18:01 67	
3/5/2018 10:01	66	8/5/2018 16:31 67	14/5/2018 11:01 66	18/5/2018 17:31 66	25/5/2018 12:01 67	30/5/2018 18:31 67	
3/5/2018 10:31	66	8/5/2018 17:01 66	14/5/2018 11:31 66	18/5/2018 18:01 67	25/5/2018 12:31 67	31/5/2018 07:01 65	
3/5/2018 11:01	66	8/5/2018 17:31 67	14/5/2018 12:01 66	18/5/2018 18:31 67	25/5/2018 13:01 67	31/5/2018 07:31 65	
3/5/2018 11:31	66	8/5/2018 18:01 67	14/5/2018 12:31 66	19/5/2018 07:01 63	25/5/2018 13:31 66	31/5/2018 08:01 66	
3/5/2018 12:01	66	8/5/2018 18:31 67	14/5/2018 13:01 66	19/5/2018 07:31 64	25/5/2018 14:01 66	31/5/2018 08:31 68	
3/5/2018 12:31	66	9/5/2018 07:01 64	14/5/2018 13:31 66	19/5/2018 08:01 65	25/5/2018 14:31 66	31/5/2018 09:01 68	
3/5/2018 13:01	66	9/5/2018 07:31 65	14/5/2018 14:01 67	19/5/2018 08:31 66	25/5/2018 15:01 66	31/5/2018 09:31 67	
3/5/2018 13:31	66	9/5/2018 08:01 66	14/5/2018 14:31 65	19/5/2018 09:01 66	25/5/2018 15:31 65	31/5/2018 10:01 67	
3/5/2018 14:01	66	9/5/2018 08:31 67	14/5/2018 15:01 66	19/5/2018 09:31 66	25/5/2018 16:01 66	31/5/2018 10:31 67	
3/5/2018 14:31	66	9/5/2018 09:01 67	14/5/2018 15:31 66	19/5/2018 10:01 66	25/5/2018 16:31 66	31/5/2018 11:01 66	
3/5/2018 15:01	66	9/5/2018 09:31 66	14/5/2018 16:01 67	19/5/2018 10:31 67	25/5/2018 17:01 66	31/5/2018 11:31 67	
3/5/2018 15:31	66	9/5/2018 10:01 67	14/5/2018 16:31 66	19/5/2018 11:01 66	25/5/2018 17:31 66	31/5/2018 12:01 66	
3/5/2018 16:01	66	9/5/2018 10:31 66	14/5/2018 17:01 66	19/5/2018 11:31 65	25/5/2018 18:01 66	31/5/2018 12:31 66	
3/5/2018 16:31	67	9/5/2018 11:01 66	14/5/2018 17:31 66	19/5/2018 12:01 67	25/5/2018 18:31 67	31/5/2018 13:01 67	
3/5/2018 17:01	67	9/5/2018 11:31 67	14/5/2018 18:01 67	19/5/2018 12:31 66	26/5/2018 07:01 62	31/5/2018 13:31 67	
3/5/2018 17:31	67	9/5/2018 12:01 66	14/5/2018 18:31 66	19/5/2018 13:01 66	26/5/2018 07:31 64	31/5/2018 14:01 66	
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1/5/2018 15:31	67	2/5/2018 20:36	65	4/5/2018 21:41	65	6/5/2018 10:46	67
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1/5/2018 15:46	68	2/5/2018 20:51	66	4/5/2018 21:56	66	6/5/2018 11:01	67
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1/5/2018 18:31	68	3/5/2018 19:36	66	5/5/2018 20:41	65	6/5/2018 13:46	67
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21											

Continuous Noise Monitoring Data ACL3 (City Hall)

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27/6/2018 23:41	59	29/6/2018 00:46	57	30/6/2018 01:51	58
27/6/2018 23:46	59	29/6/2018 00:51	58	30/6/2018 01:56	58
27/6/2018 23:51	59	29/6/2018 00:56	57	30/6/2018 02:01	58
27/6/2018 23:56	58	29/6/2018 01:01	57	30/6/2018 02:06	57
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28/6/2018 00:06	58	29/6/2018 01:11	57	30/6/2018 02:16	57
28/6/2018 00:11	58	29/6/2018 01:16	57	30/6/2018 02:21	56
28/6/2018 00:16	60	29/6/2018 01:21	57	30/6/2018 02:26	57
28/6/2018 00:21	59	29/6/2018 01:26	57	30/6/2018 02:31	57
28/6/2018 00:26	59	29/6/2018 01:31	57	30/6/2018 02:36	58
28/6/2018 00:31	58	29/6/2018 01:36	56	30/6/2018 02:41	58
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Continuous Noise Monitoring Data		ACL3 (City Hall)					
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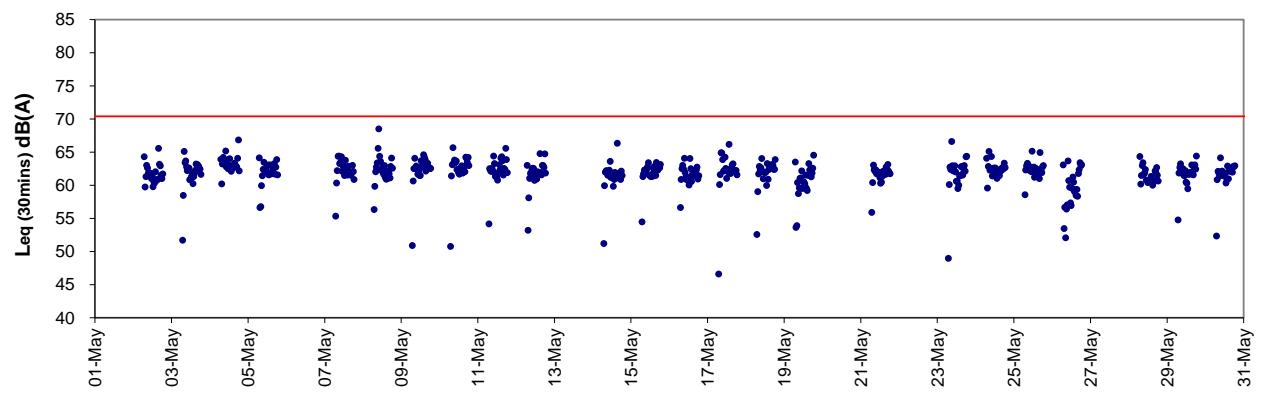
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25/7/2018 07:11	59	26/7/2018 08:21	59	27/7/2018 09:21	57
25/7/2018 07:16	56	26/7/2018 08:26	47	27/7/2018 09:26	56
25/7/2018 07:21	55	26/7/2018 08:31	57	27/7/2018 09:31	57
25/7/2018 07:26	57	26/7/2018 08:36	59	27/7/2018 09:36	59
25/7/2018 07:31	54	26/7/2018 08:41	59	27/7/2018 09:41	57
25/7/2018 07:36	59	26/7/2018 08:46	55	27/7/2018 09:46	58
25/7/2018 07:41	60	26/7/2018 08:51	54	27/7/2018 09:51	59
25/7/2018 07:46	60	26/7/2018 08:56	58	27/7/2018 09:56	57
25/7/2018 07:51	60	26/7/2018 09:01	49	27/7/2018 10:01	57
25/7/2018 07:56	54	26/7/2018 09:06	45	27/7/2018 10:06	57
25/7/2018 08:01	46	26/7/2018 09:11			

Continuous Noise Monitoring Data ACL3 (City Hall)

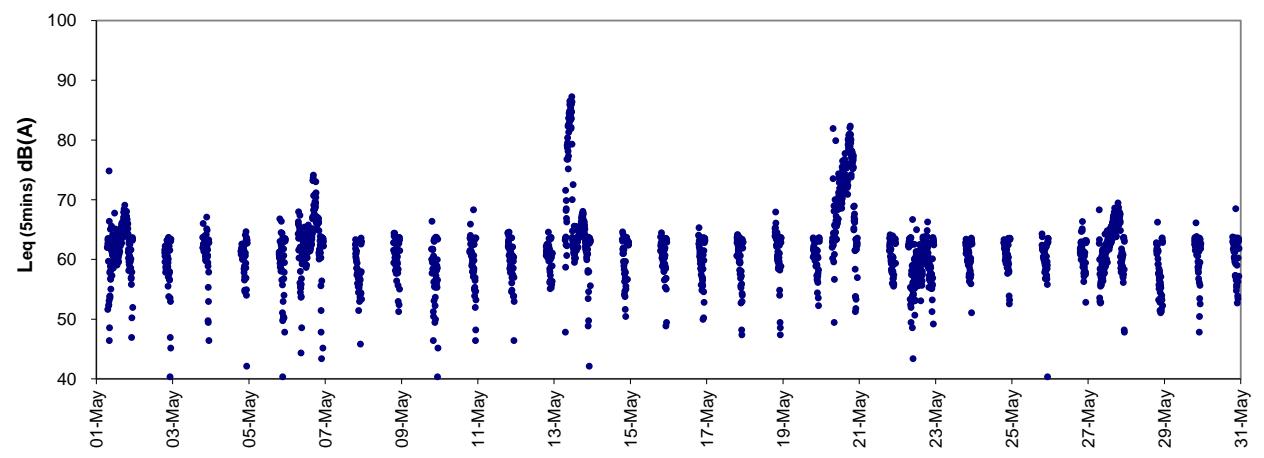
31/7/2018 03:56 59
31/7/2018 04:01 59
31/7/2018 04:06 59
31/7/2018 04:11 59
31/7/2018 04:16 60
31/7/2018 04:21 59
31/7/2018 04:26 59
31/7/2018 04:31 59
31/7/2018 04:36 59
31/7/2018 04:41 59
31/7/2018 04:46 59
31/7/2018 04:51 59
31/7/2018 04:56 59
31/7/2018 05:01 58
31/7/2018 05:06 58
31/7/2018 05:11 59
31/7/2018 05:16 59
31/7/2018 05:21 59
31/7/2018 05:26 59
31/7/2018 05:31 59
31/7/2018 05:36 59
31/7/2018 05:41 60
31/7/2018 05:46 59
31/7/2018 05:51 37
31/7/2018 05:56 44
31/7/2018 06:01 61
31/7/2018 06:06 58
31/7/2018 06:11 59
31/7/2018 06:16 54
31/7/2018 06:21 56
31/7/2018 06:26 57
31/7/2018 06:31 61
31/7/2018 06:36 58
31/7/2018 06:41 59
31/7/2018 06:46 56
31/7/2018 06:51 61
31/7/2018 06:56 55
31/7/2018 23:01 56
31/7/2018 23:06 60
31/7/2018 23:11 53
31/7/2018 23:16 47
31/7/2018 23:21 52
31/7/2018 23:26 60
31/7/2018 23:31 60
31/7/2018 23:36 48
31/7/2018 23:41 60
31/7/2018 23:46 60
31/7/2018 23:51 59
31/7/2018 23:56 60

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

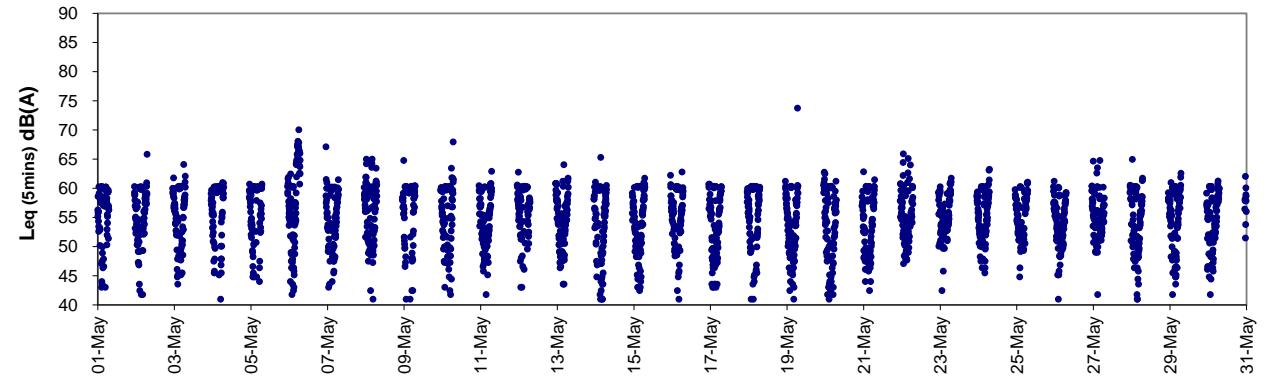
Day Time (0700 -1900 hrs on normal weekdays)



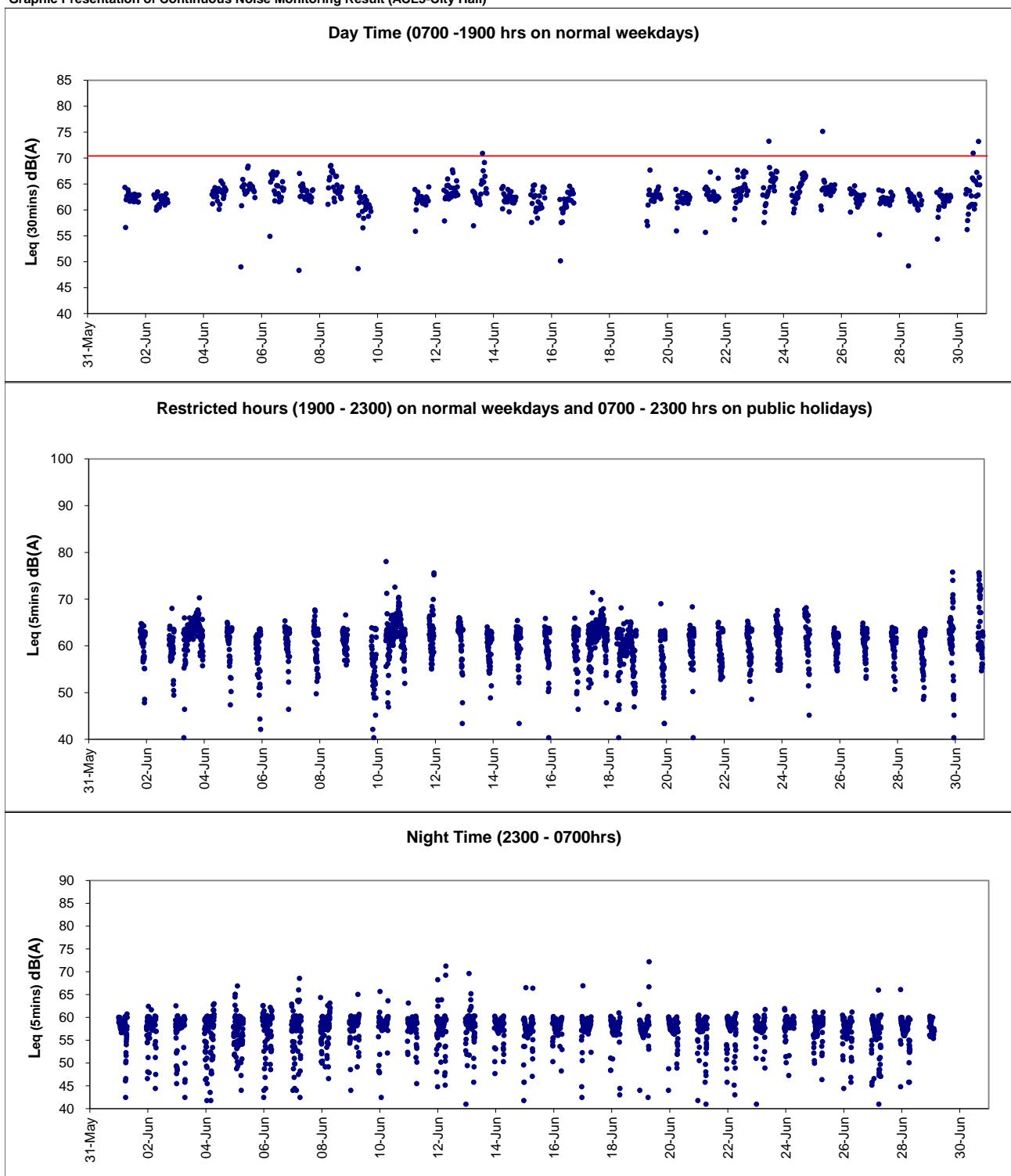
Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays



Night Time (2300 - 0700hrs)



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



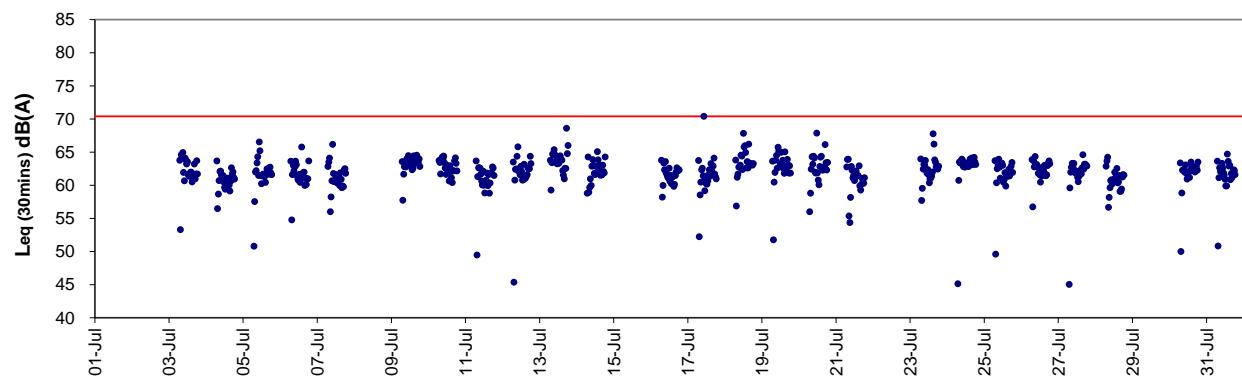
No construction works was conducted under Contractor HK/2012/08 at CRIII area on 13 and 23 June 2018. Meanwhile, adverse weather condition was recorded during the reporting period and was considered as potential noise contribution. As such, the exceedances were considered as non-Project related.

No construction works was conducted by Contractor HK/2012/08 at CRIII area on 25 June 2018. Meanwhile, Dragon Boat Event was held at area opposite to the monitoring station during the concerned period and was considered as the major noise contribution. As such, the exceedance was considered as non-project related.

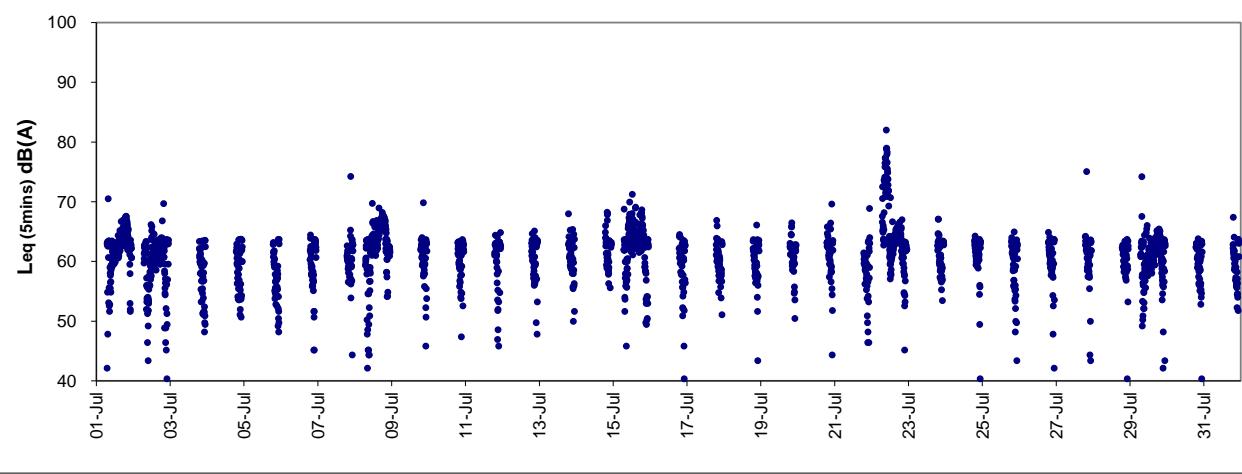
No construction works was conducted by Contractor HK/2012/08 at CRIII area on 30 June 2018. Meanwhile, Festival was held at area opposite to the monitoring station during the concerned period and considered as the major noise contribution. As such, the exceedance was considered as non-project related.

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

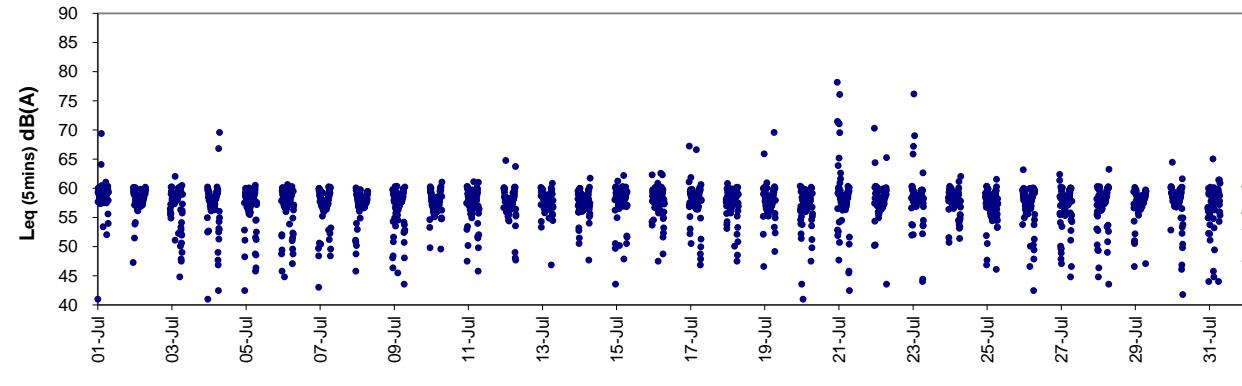
Day Time (0700 -1900 hrs on normal weekdays)



Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays



Night Time (2300 - 0700hrs)





Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

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		
02-May-18	08:00	Cloudy	25413	2.6734	2.7445	3712.51	3736.51	24.00	0.80	0.80	0.80	1153	61.7
08-May-18	08:00	Rainy	25311	2.6722	2.7296	3739.51	3763.51	24.00	0.80	0.81	0.80	1158	49.6
14-May-18	08:00	Fine	25529	2.6903	2.7354	3766.51	3790.51	24.00	0.86	0.86	0.86	1234	36.6
19-May-18	08:00	Fine	25633	2.6587	2.7008	3793.51	3817.51	24.00	0.85	0.85	0.85	1230	34.2
25-May-18	08:00	Cloudy	25687	2.6768	2.7076	3820.51	3844.51	24.00	0.85	0.85	0.85	1228	25.1
31-May-18	08:00	Fine	25303	2.6814	2.7534	3847.51	3871.51	24.00	0.85	0.86	0.85	1230	58.5

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		
03-May-18	09:09	Cloudy	25409	2.6638	2.6696	3736.51	3737.51	1.00	0.80	0.80	0.80	48	120.5
03-May-18	10:18	Cloudy	25406	2.6613	2.6667	3737.51	3738.51	1.00	0.80	0.80	0.80	48	112.2
03-May-18	13:00	Cloudy	25403	2.6547	2.6610	3738.51	3739.51	1.00	0.80	0.80	0.80	48	130.9
09-May-18	09:47	Rainy	25540	2.6843	2.6868	3763.51	3764.51	1.00	0.68	0.68	0.68	41	61.5
09-May-18	11:00	Rainy	25537	2.6917	2.6947	3764.51	3765.51	1.00	0.68	0.68	0.68	41	73.8
09-May-18	15:00	Rainy	25534	2.6879	2.6909	3765.51	3766.51	1.00	0.68	0.68	0.68	41	73.8
15-May-18	08:35	Fine	25068	2.6511	2.6521	3790.51	3791.51	1.00	0.73	0.73	0.73	44	22.8
15-May-18	10:02	Fine	25620	2.6857	2.6867	3791.51	3792.51	1.00	0.73	0.73	0.73	44	22.8
15-May-18	13:00	Fine	25621	2.6653	2.6663	3792.51	3793.51	1.00	0.73	0.73	0.73	44	22.8
21-May-18	08:30	Fine	25664	2.6562	2.6626	3817.51	3818.51	1.00	0.86	0.86	0.86	51	124.7
21-May-18	10:17	Fine	25744	2.6645	2.6673	3818.51	3819.51	1.00	0.86	0.86	0.86	51	54.6
21-May-18	13:25	Fine	25765	2.6746	2.6766	3819.51	3820.51	1.00	0.86	0.86	0.86	51	39.0
26-May-18	09:09	Cloudy	25527	2.6731	2.6760	3844.51	3845.51	1.00	0.85	0.85	0.85	51	56.7
26-May-18	10:15	Cloudy	25309	2.6841	2.6868	3845.51	3846.51	1.00	0.85	0.85	0.85	51	52.8
26-May-18	13:00	Cloudy	25306	2.6861	2.6884	3846.51	3847.51	1.00	0.85	0.85	0.85	51	45.0
01-Jun-18	08:48	Cloudy	25300	2.6799	2.6857	3871.51	3872.51	1.00	0.86	0.86	0.86	51	113.0
01-Jun-18	09:50	Cloudy	25686	2.6592	2.6638	3872.51	3873.51	1.00	0.86	0.86	0.86	51	89.7
01-Jun-18	11:00	Cloudy	25681	2.6786	2.6822	3873.51	3874.51	1.00	0.86	0.86	0.86	51	70.2



CEDD Contract No. HK/2015/01
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works

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_s	Final, Q_f	Average		
02-May-18	08:00	Cloudy	25284	2.6674	2.7343	8909.85	8933.85	24.00	1.09	1.09	1.09	1571	42.6
08-May-18	08:00	Rainy	25459	2.6878	2.7401	8936.85	8960.85	24.00	1.09	1.10	1.09	1575	33.2
14-May-18	08:00	Fine	25584	2.6858	2.7249	8963.85	8987.85	24.00	1.03	1.03	1.03	1478	26.5
19-May-18	08:00	Fine	25637	2.6621	2.7012	8990.85	9014.85	24.00	1.02	1.02	1.02	1474	26.5
25-May-18	08:00	Cloudy	25762	2.6826	2.7043	9017.85	9041.85	24.00	1.02	1.02	1.02	1473	14.7
31-May-18	08:00	Fine	25887	2.6408	2.6845	9044.85	9068.85	24.00	1.02	1.02	1.02	1475	29.6

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_s	Final, Q_f	Average		
03-May-18	08:15	Cloudy	25122	2.6528	2.6621	8933.85	8934.85	1.00	1.09	1.09	1.09	66	141.9
03-May-18	09:30	Cloudy	25433	2.6608	2.6642	8934.85	8935.85	1.00	1.09	1.09	1.09	66	51.9
03-May-18	10:35	Cloudy	25464	2.6567	2.6613	8935.85	8936.85	1.00	1.09	1.09	1.09	66	70.2
09-May-18	08:15	Rainy	25548	2.6844	2.6881	8960.85	8961.85	1.00	1.10	1.10	1.10	66	56.3
09-May-18	09:35	Rainy	25587	2.6873	2.6900	8961.85	8962.85	1.00	1.10	1.10	1.10	66	41.1
09-May-18	10:37	Rainy	25558	2.6771	2.6800	8962.85	8963.85	1.00	1.10	1.10	1.10	66	44.1
15-May-18	08:10	Fine	25570	2.6888	2.6913	8987.85	8988.85	1.00	1.03	1.03	1.03	62	40.6
15-May-18	09:50	Fine	25656	2.6767	2.6777	8988.85	8989.85	1.00	1.03	1.03	1.03	62	16.2
15-May-18	13:00	Fine	25647	2.6731	2.6747	8989.85	8990.85	1.00	1.03	1.03	1.03	62	26.0
21-May-18	08:14	Fine	25667	2.6707	2.6757	9014.85	9015.85	1.00	1.02	1.02	1.02	61	81.3
21-May-18	10:05	Fine	25770	2.6805	2.6848	9015.85	9016.85	1.00	1.02	1.02	1.02	61	69.9
21-May-18	14:05	Fine	25750	2.6763	2.6780	9016.85	9017.85	1.00	1.02	1.02	1.02	61	27.6
26-May-18	13:00	Cloudy	25730	2.6842	2.6861	9041.85	9042.85	1.00	1.02	1.02	1.02	61	31.0
26-May-18	14:35	Cloudy	25725	2.6709	2.6749	9042.85	9043.85	1.00	1.02	1.02	1.02	61	65.2
26-May-18	15:55	Cloudy	25722	2.6778	2.6833	9043.85	9044.85	1.00	1.02	1.02	1.02	61	89.7
01-Jun-18	08:25	Cloudy	25884	2.6394	2.6419	9068.85	9069.85	1.00	1.02	1.02	1.02	61	40.7
01-Jun-18	09:35	Cloudy	25877	2.6558	2.6589	9069.85	9070.85	1.00	1.02	1.02	1.02	61	50.4
01-Jun-18	13:00	Cloudy	25171	2.6666	2.6691	9070.85	9071.85	1.00	1.02	1.02	1.02	61	40.7



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		
04-Jun-18	08:00	Rainy	25678	2.6682	2.7194	3874.51	3898.51	24.00	0.86	0.86	0.86	1236	41.4
09-Jun-18	08:00	Rainy	25852	2.6469	2.7091	3901.51	3925.51	24.00	0.85	0.85	0.85	1223	50.9
15-Jun-18	08:00	Cloudy	26118	2.6825	2.7349	3928.51	3952.51	24.00	0.86	0.86	0.86	1232	42.5
20-Jun-18	08:00	Cloudy	26172	2.6627	2.7144	3955.51	3979.51	24.00	0.85	0.85	0.85	1228	42.1
25-Jun-18	8:00	Rainy	26028	2.6746	2.7061	3982.51	4006.51	24.00	0.86	0.86	0.86	1236	25.5
29-Jun-18	8:00	Rainy	26019	2.6542	2.7038	4009.51	4033.51	24.00	0.85	0.85	0.85	1226	40.5

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		
05-Jun-18	09:10	Rainy	25675	2.6795	2.6817	3898.51	3899.51	1.00	0.86	0.86	0.86	52	42.7
05-Jun-18	10:16	Rainy	25857	2.6494	2.6520	3899.51	3900.51	1.00	0.86	0.86	0.86	52	50.4
05-Jun-18	13:00	Rainy	25854	2.6264	2.6278	3900.51	3901.51	1.00	0.86	0.86	0.86	52	27.2
11-Jun-18	08:45	Fine	26131	2.6803	2.6825	3925.51	3926.51	1.00	0.85	0.85	0.85	51	43.2
11-Jun-18	10:55	Fine	25993	2.6509	2.6566	3926.51	3927.51	1.00	0.85	0.85	0.85	51	112.0
11-Jun-18	14:25	Fine	26066	2.6718	2.6813	3927.51	3928.51	1.00	0.85	0.85	0.85	51	186.7
16-Jun-18	08:54	Cloudy	25065	2.6504	2.6520	3952.51	3953.51	1.00	0.86	0.86	0.86	51	31.2
16-Jun-18	09:58	Cloudy	25062	2.6421	2.6445	3953.51	3954.51	1.00	0.86	0.86	0.86	51	46.8
16-Jun-18	15:00	Cloudy	25059	2.6532	2.6592	3954.51	3955.51	1.00	0.86	0.86	0.86	51	116.9
21-Jun-18	08:50	Cloudy	25845	2.6522	2.6560	3979.51	3980.51	1.00	0.85	0.85	0.85	51	74.3
21-Jun-18	09:56	Cloudy	25842	2.6527	2.6565	3980.51	3981.51	1.00	0.85	0.85	0.85	51	74.3
21-Jun-18	11:00	Cloudy	25849	2.6484	2.6525	3981.51	3982.51	1.00	0.85	0.85	0.85	51	80.2
26-Jun-18	8:52	Rainy	26321	2.6852	2.6870	4006.51	4007.51	1.00	0.86	0.86	0.86	51	35.0
26-Jun-18	9:55	Rainy	26025	2.6722	2.6737	4007.51	4008.51	1.00	0.86	0.86	0.86	51	29.1
26-Jun-18	11:00	Rainy	26022	2.6759	2.6770	4008.51	4009.51	1.00	0.86	0.86	0.86	51	21.4
30-Jun-18	8:46	Rainy	26309	2.6643	2.6668	4033.51	4034.51	1.00	0.85	0.85	0.85	51	48.9
30-Jun-18	10:35	Rainy	26300	2.6522	2.6551	4034.51	4035.51	1.00	0.85	0.85	0.85	51	56.8
30-Jun-18	16:30	Rainy	26277	2.6613	2.6654	4035.51	4036.51	1.00	0.85	0.85	0.85	51	80.3



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_s	Final, Q_f	Average		
04-Jun-18	08:00	Rainy	25874	2.6604	2.6984	9071.85	9095.85	24.00	1.03	1.03	1.03	1480	25.7
09-Jun-18	08:00	Rainy	25969	2.6544	2.6882	9098.85	9122.85	24.00	1.02	1.02	1.02	1469	23.0
15-Jun-18	08:00	Cloudy	26125	2.6650	2.7155	9126.85	9150.85	24.00	1.03	1.03	1.03	1476	34.2
20-Jun-18	08:00	Cloudy	25954	2.6469	2.6938	9153.85	9177.85	24.00	1.02	1.02	1.02	1473	31.8
25-Jun-18	8:00	Rainy	26211	2.6687	2.6905	9180.85	9204.85	24.00	1.03	1.03	1.03	1480	14.7
30-Jun-18	14:45	Rainy	26274	2.6523	2.6996	9213.58	9237.58	24.00	1.02	1.02	1.02	1471	32.2

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 29 June 2018 to 30 June 2018.

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_s	Final, Q_f	Average		
05-Jun-18	08:25	Rainy	25939	2.6336	2.6348	9095.85	9096.85	1.00	1.03	1.03	1.03	62	19.4
05-Jun-18	10:05	Rainy	25945	2.6528	2.6547	9096.85	9097.85	1.00	1.03	1.03	1.03	62	30.8
05-Jun-18	13:00	Rainy	25953	2.6526	2.6536	9097.85	9098.85	1.00	1.03	1.03	1.03	62	16.2
11-Jun-18	08:30	Fine	25982	2.6550	2.6597	9122.85	9123.85	1.00	1.02	1.02	1.02	61	76.9
11-Jun-18	10:45	Fine	25990	2.6579	2.6628	9123.85	9124.85	1.00	1.02	1.02	1.02	61	80.2
11-Jun-18	13:30	Fine	26064	2.6808	2.6863	9124.85	9125.85	1.00	1.02	1.02	1.02	61	90.0
16-Jun-18	13:00	Cloudy	26103	2.6673	2.6697	9150.85	9151.85	1.00	1.03	1.03	1.03	62	39.0
16-Jun-18	14:30	Cloudy	26164	2.6646	2.6675	9151.85	9152.85	1.00	1.03	1.03	1.03	62	47.2
16-Jun-18	15:40	Cloudy	26098	2.6702	2.6820	9152.85	9153.85	1.00	1.03	1.03	1.03	62	191.9
21-Jun-18	08:55	Cloudy	26178	2.6685	2.6714	9177.85	9178.85	1.00	1.02	1.02	1.02	61	47.3
21-Jun-18	09:57	Cloudy	26182	2.6687	2.6718	9178.85	9179.85	1.00	1.02	1.02	1.02	61	50.5
21-Jun-18	10:59	Cloudy	26214	2.6711	2.6735	9179.85	9180.85	1.00	1.02	1.02	1.02	61	39.1
26-Jun-18	8:17	Rainy	26191	2.6726	2.6749	9204.85	9205.85	1.00	1.03	1.03	1.03	62	37.3
26-Jun-18	9:45	Rainy	26204	2.6497	2.6535	9205.85	9206.85	1.00	1.03	1.03	1.03	62	61.7
26-Jun-18	13:20	Rainy	26294	2.6760	2.6775	9206.85	9207.85	1.00	1.03	1.03	1.03	62	24.3
30-Jun-18	8:10	Rainy	26257	2.6644	2.6664	9210.58	9211.58	1.00	1.02	1.02	1.02	61	32.6
30-Jun-18	10:20	Rainy	26261	2.6653	2.6671	9211.58	9212.58	1.00	1.02	1.02	1.02	61	29.4
30-Jun-18	13:00	Rainy	26279	2.6653	2.6679	9212.58	9213.58	1.00	1.02	1.02	1.02	61	42.4



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		
05-Jul-18	08:00	Cloudy	26299	2.6556	2.7034	4036.51	4060.51	24.00	0.83	0.83	0.83	1197	39.9
11-Jul-18	08:00	Fine	26464	2.6549	2.7071	4063.51	4087.51	24.00	0.83	0.83	0.83	1197	43.6
17-Jul-18	08:00	Rainy	26406	2.6847	2.7406	4090.51	4114.51	24.00	0.83	0.84	0.83	1200	46.6
23-Jul-18	08:00	Rainy	26523	2.6776	2.7294	4117.51	4141.51	24.00	0.83	0.83	0.83	1200	43.2
28-Jul-18	08:00	Fine	26609	2.6720	2.7049	4144.51	4168.51	24.00	0.83	0.83	0.83	1200	27.4

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		
06-Jul-18	08:08	Cloudy	26018	2.6540	2.6561	4060.51	4061.51	1.00	0.83	0.83	0.83	50	42.1
06-Jul-18	10:08	Cloudy	26471	2.6689	2.6706	4061.51	4062.51	1.00	0.83	0.83	0.83	50	34.1
06-Jul-18	13:00	Cloudy	26468	2.6776	2.6790	4062.51	4063.51	1.00	0.83	0.83	0.83	50	28.1
12-Jul-18	08:20	Cloudy	26414	2.6752	2.6769	4087.51	4088.51	1.00	0.83	0.83	0.83	50	34.1
12-Jul-18	09:23	Cloudy	26412	2.6786	2.6804	4088.51	4089.51	1.00	0.83	0.83	0.83	50	36.1
12-Jul-18	10:27	Cloudy	26409	2.6763	2.6780	4089.51	4090.51	1.00	0.83	0.83	0.83	50	34.1
18-Jul-18	08:15	Rainy	26642	2.6656	2.6670	4114.51	4115.51	1.00	0.71	0.71	0.71	43	32.7
18-Jul-18	09:30	Rainy	26437	2.6643	2.6680	4115.51	4116.51	1.00	0.84	0.84	0.84	50	73.8
18-Jul-18	11:00	Rainy	26567	2.6631	2.6649	4116.51	4117.51	1.00	0.71	0.71	0.71	43	42.0
24-Jul-18	09:05	Cloudy	26526	2.6735	2.6757	4141.51	4142.51	1.00	0.83	0.83	0.83	50	44.1
24-Jul-18	10:20	Cloudy	26660	2.6708	2.6734	4142.51	4143.51	1.00	0.83	0.83	0.83	50	52.1
24-Jul-18	13:00	Cloudy	26657	2.6796	2.6813	4143.51	4144.51	1.00	0.71	0.71	0.71	43	39.9
30-Jul-18	08:30	Fine	26655	2.6698	2.6723	4168.51	4169.51	1.00	0.83	0.83	0.83	50	50.0
30-Jul-18	09:35	Fine	26644	2.6853	2.6882	4169.51	4170.51	1.00	0.83	0.83	0.83	50	58.0
30-Jul-18	10:45	Fine	26617	2.6577	2.6618	4170.51	4171.51	1.00	0.83	0.83	0.83	50	82.0



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		
06-Jul-18	11:45	Cloudy	24318	2.6492	2.6864	9240.56	9264.56	24.00	1.08	1.08	1.08	1558	23.9
11-Jul-18	08:00	Fine	26446	2.6773	2.7230	9264.56	9288.56	24.00	1.08	1.08	1.08	1556	29.4
17-Jul-18	08:00	Rainy	26474	2.6642	2.7188	9291.56	9315.56	24.00	1.08	1.08	1.08	1559	35.0
23-Jul-18	08:00	Rainy	26560	2.6635	2.7294	9318.56	9342.56	24.00	1.08	1.08	1.08	1559	42.3
28-Jul-18	08:00	Fine	26637	2.6701	2.7001	9345.56	9369.56	24.00	1.08	1.08	1.08	1559	19.2

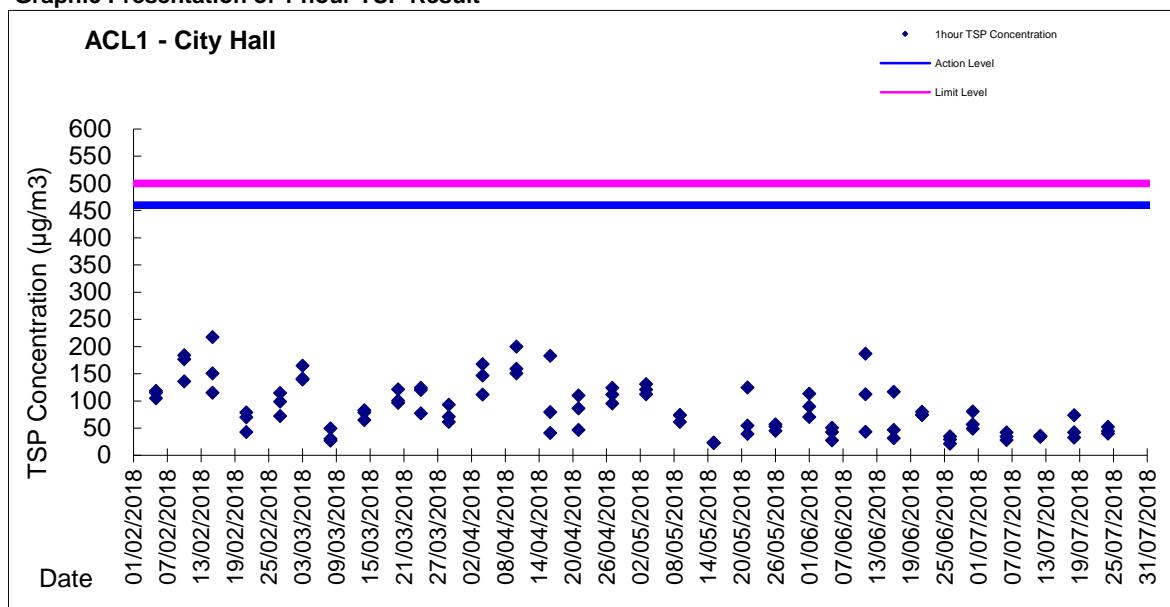
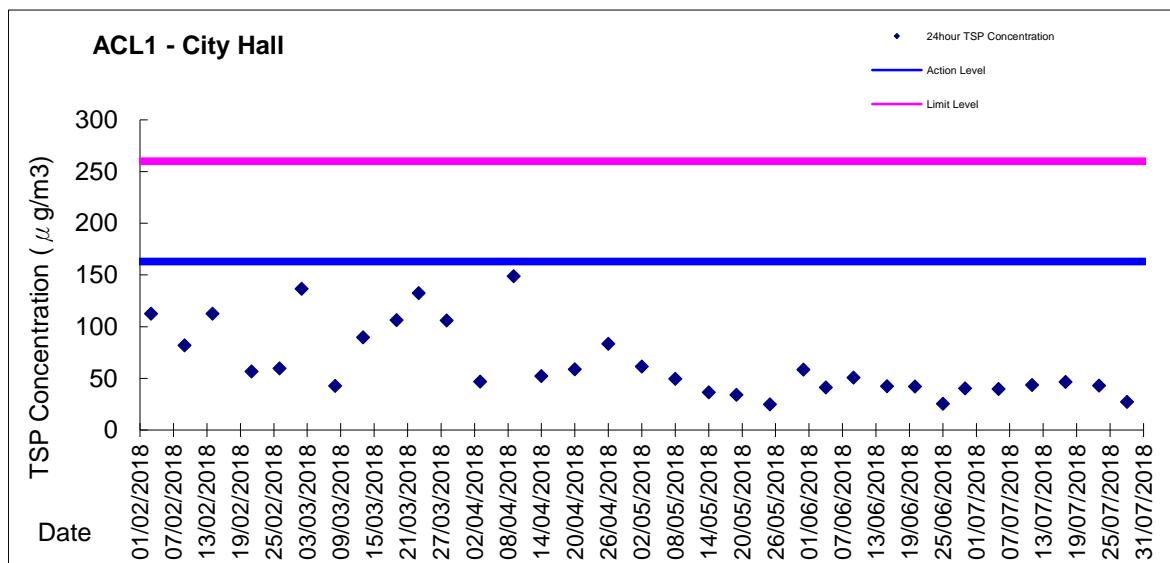
Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 5 July 2018 to 6 July 2018.

Report on 1-hour TSP monitoring

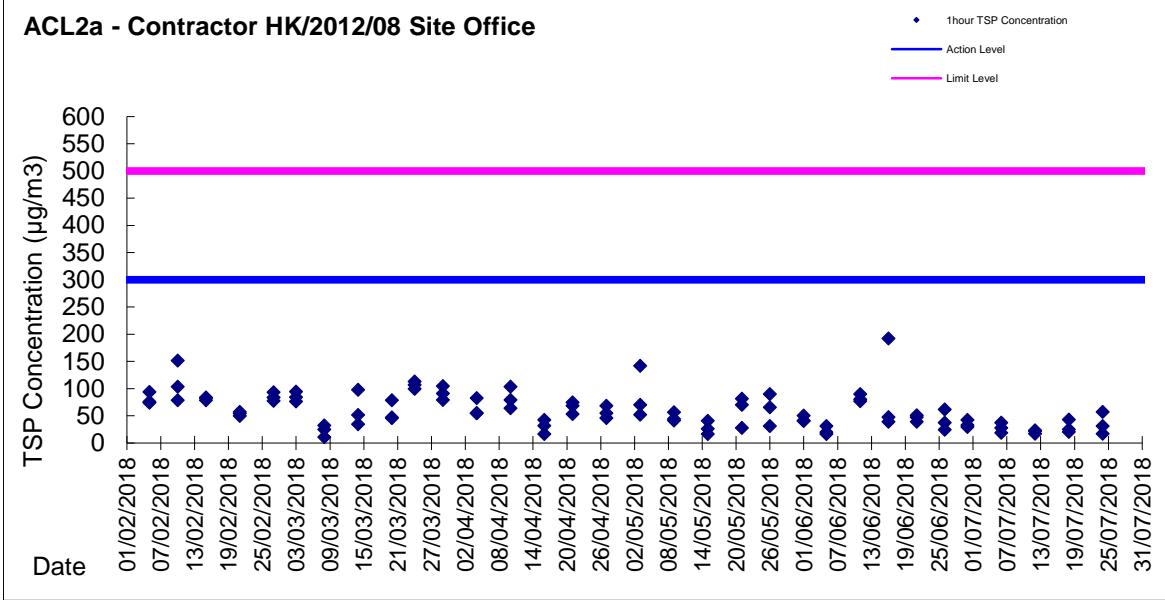
Action Level ($\mu\text{g}/\text{m}^3$) - 300.1

Limit Level ($\mu\text{g}/\text{m}^3$) - 500

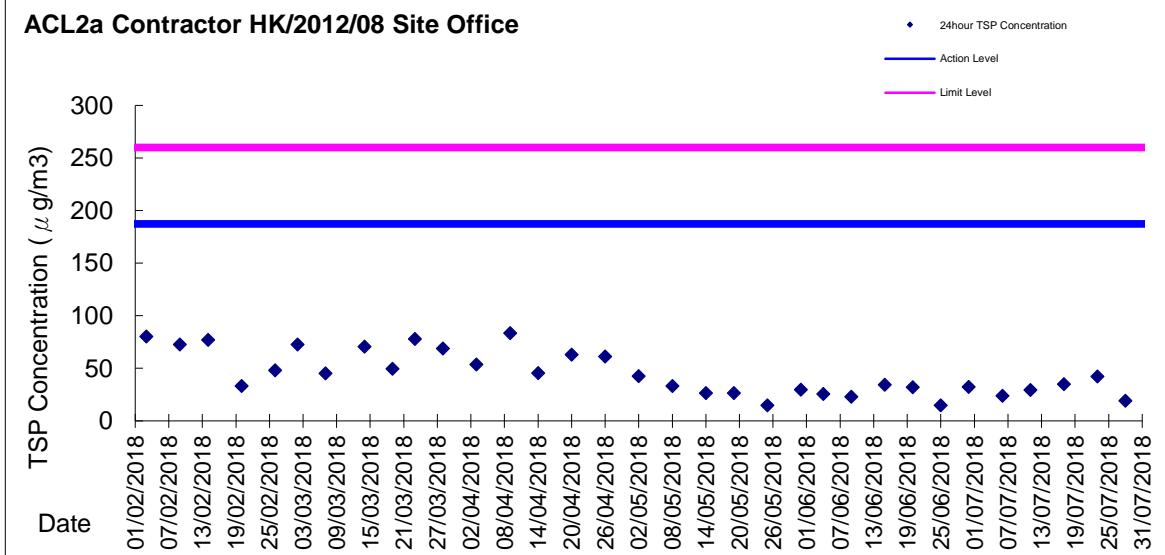
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
06-Jul-18	08:05	Cloudy	26017	2.6495	2.6513	9237.56	9238.56	1.00	1.08	1.08	1.08	65	27.8
06-Jul-18	09:07	Cloudy	26459	2.6637	2.6649	9238.56	9239.56	1.00	1.08	1.08	1.08	65	18.5
06-Jul-18	10:15	Cloudy	26014	2.6452	2.6476	9239.56	9240.56	1.00	1.08	1.08	1.08	65	37.0
12-Jul-18	08:10	Cloudy	26444	2.6649	2.6664	9288.56	9289.56	1.00	1.08	1.08	1.08	65	23.1
12-Jul-18	09:35	Cloudy	26440	2.6724	2.6735	9289.56	9290.56	1.00	1.08	1.08	1.08	65	17.0
12-Jul-18	13:00	Cloudy	25861	2.6464	2.6478	9290.56	9291.56	1.00	1.08	1.08	1.08	65	21.6
18-Jul-18	08:10	Rainy	26431	2.6642	2.6655	9315.56	9316.56	1.00	1.08	1.08	1.08	65	20.0
18-Jul-18	09:17	Rainy	26433	2.6516	2.6544	9316.56	9317.56	1.00	1.08	1.08	1.08	65	43.0
18-Jul-18	10:45	Rainy	26571	2.6909	2.6925	9317.56	9318.56	1.00	1.08	1.08	1.08	65	24.6
24-Jul-18	08:10	Cloudy	26543	2.6749	2.6760	9342.56	9343.56	1.00	1.08	1.08	1.08	65	17.0
24-Jul-18	10:15	Cloudy	26527	2.6664	2.6684	9343.56	9344.56	1.00	1.08	1.08	1.08	65	30.8
24-Jul-18	13:00	Cloudy	26607	2.6802	2.6839	9344.56	9345.56	1.00	1.08	1.08	1.08	65	57.0
30-Jul-18	08:05	Fine	26696	2.6975	2.6989	9369.56	9370.56	1.00	1.08	1.08	1.08	65	21.6
30-Jul-18	09:15	Fine	26701	2.6823	2.6848	9370.56	9371.56	1.00	1.08	1.08	1.08	65	38.5
30-Jul-18	10:20	Fine	26619	2.6399	2.6428	9371.56	9372.56	1.00	1.08	1.08	1.08	65	44.7

Graphic Presentation of 1 hour TSP Result**Graphic Presentation of 24 hour TSP Result**

Graphic Presentation of 1 hour TSP Result



Graphic Presentation of 24 hour TSP Result





Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

Appendix 4.3

Water Quality Monitoring Graphical Presentations

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids							
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
02/05/2018	21:02	Cloudy	Middle	3.5	24.40	24.40	24.40	8.05	8.05	8.05	32.13	32.13	32.13	78.0	80.5	79.6	5.16	5.32	5.26	1.29	1.34	1.28	4	4.50
	21:03		Middle	3.5	24.40	24.40		8.05	8.05		32.13	32.14		79.5	80.2		5.26	5.31		1.25	1.24		5	
04/05/2018	09:25	Fine	Middle	4.0	24.40	24.40	24.40	8.27	8.27	8.28	32.75	32.75	32.75	90.9	90.8	90.6	6.30	6.29	6.27	8.79	8.75	8.72	9	10.00
	09:27		Middle	4.0	24.40	24.40		8.28	8.28		32.75	32.75		90.3	90.3		6.25	6.25		8.65	8.68		11	
07/05/2018	04:19	Cloudy	Middle	3.0	25.40	25.40	25.40	8.11	8.11	8.11	31.95	31.95	31.95	76.4	77.9	77.1	5.23	5.33	5.28	1.32	1.38	1.31	4	5.00
	04:20		Middle	3.0	25.40	25.40		8.11	8.11		31.95	31.95		77.0	77.1		5.27	5.27		1.22	1.30		6	
10/05/2018	03:28	Cloudy	Middle	3.5	23.40	23.40	23.40	8.20	8.20	8.20	32.87	32.87	32.87	75.7	77.6	76.9	5.36	5.46	5.42	3.25	3.34	3.21	4	4.50
	03:29		Middle	3.5	23.40	23.40		8.20	8.20		32.87	32.87		77.1	77.0		5.44	5.43		3.09	3.14		5	
12/05/2018	17:05	Fine	Middle	4.0	25.70	25.70	25.75	8.16	8.16	8.18	32.52	32.52	32.52	87.7	88.1	87.9	5.95	5.97	5.96	9.74	9.66	9.75	14	15.00
	17:07		Middle	4.0	25.80	25.80		8.20	8.20		32.51	32.51		87.6	88.3		5.93	5.97		9.79	9.79		16	
14/05/2018	18:20	Fine	Middle	4.0	26.60	26.60	26.70	8.17	8.17	8.18	31.73	31.73	31.73	86.3	85.6	85.8	5.79	5.73	5.75	10.74	10.66	10.65	11	11.50
	18:22		Middle	4.0	26.80	26.80		8.19	8.19		31.73	31.73		85.7	85.6		5.73	5.73		10.62	10.59		12	
16/05/2018	17:55	Fine	Middle	3.0	26.90	26.90	26.90	8.10	8.10	8.10	30.72	30.72	30.72	77.1	78.6	78.4	5.16	5.27	5.26	9.01	8.69	9.02	13	11.50
	17:56		Middle	3.0	26.90	26.90		8.10	8.10		30.72	30.72		79.9	78.1		5.36	5.24		8.41	9.96		10	
19/05/2018	09:50	Fine	Middle	4.0	27.50	27.50	27.55	8.19	8.19	8.19	30.04	30.04	30.05	86.8	86.3	86.6	5.79	5.73	5.77	8.69	8.62	8.62	4	3.00
	09:52		Middle	4.0	27.60	27.60		8.19	8.19		30.05	30.05		86.6	86.5		5.77	5.77		8.59	8.58		2	
21/05/2018	11:05	Fine	Middle	4.0	27.60	27.60	27.65	8.19	8.19	8.20	30.53	30.53	30.53	86.8	87.2	86.9	5.76	5.78	5.66	8.34	8.35	8.35	2	2.00
	11:07		Middle	4.0	27.70	27.70		8.20	8.20		30.52	30.52		86.6	87.1		5.74	5.38		8.36	8.35		<2	
23/05/2018	13:35	Fine	Middle	4.0	28.70	28.70	28.80	8.22	8.22	8.23	30.19	30.19	30.19	86.1	86.7	86.1	5.62	5.68	5.61	8.73	8.72	8.76	7	6.50
	13:37		Middle	4.0	28.90	28.90		8.23	8.23		30.18	30.18		86.0	85.4		5.60	5.55		8.78	8.79		6	
25/05/2018	16:20	Fine	Middle	4.0	28.90	28.90	29.00	8.36	8.36	8.37	29.60	29.60	29.60	92.6	93.1	92.4	6.04	6.08	6.03	8.08	8.12	8.11	6	5.50
	16:22		Middle	4.0	29.10	29.10		8.37	8.37		29.60	29.60		92.1	91.6		6.01	5.97		8.12	8.13		5	
28/05/2018	16:30	Fine	Middle	4.0	31.40	31.40	31.45	8.31	8.31	8.31	29.10	29.10	29.10	88.7	89.3	88.7	5.59	5.62	5.58	8.61	8.64	8.64	5	5.00
	16:32		Middle	4.0	31.50	31.50		8.31	8.31		29.10	29.10		88.4	88.4		5.56	5.56		8.67	8.65		5	
30/05/2018	18:52	Fine	Middle	3.0	29.20	29.20	29.20	8.11	8.11	8.11	30.91	30.91	30.91	79.2	78.4	79.0	5.11	5.06	5.10	2.31	2.04	2.18	5	5.00
	18:53		Middle	3.0	29.20	29.20		8.11	8.11		30.91	30.91		78.8	79.6		5.09	5.14		2.15	2.21		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	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
			m		°C		-		ppt		%		mg/L		NTU		mg/L						
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
02/05/2018	21:09	Cloudy	Middle	3.0	24.40	24.40	24.40	7.74	7.74	7.74	29.93	29.93	60.6	61.3	4.06	4.10	2.17	1.93	5	4.50			
	21:10		Middle	3.0	24.40	24.40		7.74	7.74		29.93	29.93		59.5	61.2	3.98	4.09	2.06	1.97				
04/05/2018	09:20	Fine	Middle	4.0	24.50	24.50	24.60	8.22	8.22	8.24	32.50	32.50	32.50	87.5	87.2	6.05	6.03	8.83	8.80	8.81	7.50		
	09:22		Middle	4.0	24.70	24.70		8.26	8.26		32.50	32.50		87.4	87.4		6.06	6.03	8.80	8.81			
07/05/2018	04:27	Cloudy	Middle	2.5	25.50	25.50	25.50	7.82	7.82	7.82	30.60	30.60	30.60	56.9	58.3	57.5	3.92	4.01	1.10	1.80	1.51	4.50	
	04:28		Middle	2.5	25.50	25.50		7.82	7.82		30.60	30.60		57.2	57.5		3.94	3.96	1.31	1.81			
10/05/2018	04:03	Cloudy	Middle	3.0	23.30	23.30	23.30	7.50	7.50	7.50	28.56	28.56	28.56	21.2	21.7	21.3	1.54	1.57	10.10	9.56	9.77	7.00	
	04:04		Middle	3.0	23.30	23.30		7.50	7.50		28.55	28.55		20.6	21.8		1.48	1.51	9.73	9.69			
12/05/2018	17:00	Fine	Middle	3.5	26.20	26.20	26.35	8.13	8.13	8.13	29.36	29.36	29.36	77.2	77.1	77.2	5.26	5.26	15.29	15.29	15.29	8.00	
	17:02		Middle	3.5	26.50	26.50		8.13	8.13		29.35	29.35		77.1	77.2		5.24	5.26	15.29	15.29			
14/05/2018	18:15	Fine	Middle	4.0	27.20	27.20	27.30	8.14	8.14	8.15	30.34	30.34	30.34	75.8	75.4	75.5	5.06	5.04	20.31	20.29	20.28	12.50	
	18:17		Middle	4.0	27.40	27.40		8.15	8.15		30.33	30.33		75.5	75.2		5.04	5.01	20.26	20.26			
16/05/2018	18:10	Fine	Middle	3.0	26.90	26.90	26.90	8.01	8.01	8.01	27.78	27.78	27.78	65.5	68.1	67.7	4.47	4.65	4.62	16.76	16.86	15.82	17.50
	18:11		Middle	3.0	26.90	26.90		8.00	8.00		27.78	27.78		69.0	68.0		4.71	4.64	14.95	14.72			
19/05/2018	09:45	Fine	Middle	4.0	27.40	27.40	27.50	8.17	8.17	8.17	29.82	29.82	29.82	78.0	78.0	78.0	5.21	5.21	5.22	9.09	9.01	9.03	4.50
	09:47		Middle	4.0	27.60	27.60		8.17	8.17		29.81	29.81		77.7	78.2		5.18	5.27	9.00	9.00			
21/05/2018	11:00	Fine	Middle	3.5	28.20	28.20	28.30	8.17	8.17	8.17	30.14	30.14	30.14	78.9	78.9	79.1	5.19	5.19	5.20	9.00	9.00	9.00	<2
	11:02		Middle	3.5	28.40	28.40		8.17	8.17		30.13	30.13		79.2	79.2		5.20	5.20	9.00	9.01			
23/05/2018	13:30	Fine	Middle	3.5	29.60	29.60	29.60	8.19	8.19	8.19	30.10	30.10	30.10	84.0	83.8	83.5	5.40	5.39	5.38	9.04	9.05	9.08	7.50
	13:32		Middle	3.5	29.60	29.60		8.19	8.19		30.10	30.10		83.0	83.1		5.35	5.36	9.11	9.12			
25/05/2018	16:15	Fine	Middle	3.5	29.30	29.30	29.40	8.32	8.32	8.33	29.25	29.25	29.25	90.7	91.2	90.6	5.89	5.92	5.88	8.39	8.39	8.39	5.00
	16:17		Middle	3.5	29.50	29.50		8.33	8.33		29.24	29.24		90.1	90.4		5.84	5.86	8.39	8.39			
28/05/2018	16:25	Fine	Middle	3.5	32.00	32.00	32.15	8.32	8.32	8.31	28.90	28.90	28.90	87.3	88.9	88.5	5.44	5.53	5.51	8.31	8.31	8.31	6.50
	16:27		Middle	3.5	32.30	32.30		8.30	8.30		28.89	28.89		88.7	89.2		5.51	5.54	8.32	8.31			
30/05/2018	19:00	Fine	Middle	3.0	29.20	29.20	29.20	7.95	7.95	7.94	27.13	27.13	27.13	54.9	56.4	55.7	3.63	3.72	3.68	8.63	8.37	8.42	11.00
	19:01		Middle	3.0	29.20	29.20		7.93	7.93		27.13	27.13		55.1	56.3		3.64	3.71	8.22	8.46			

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



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids			
			m		°C		-		ppt		%		mg/L		NTU		mg/L			
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
02/05/2018	14:35	Fine	Middle	3.5	26.70	26.70	26.80	8.19	8.19	8.19	31.84	31.84	85.6	85.2	85.5	5.72	5.69	5.71	6.43	6.45
	14:37		Middle	3.5	26.90	26.90		8.18	8.18		31.84	31.84		85.4	85.6	5.70	5.71	6.45	6.45	
04/05/2018	15:25	Cloudy	Middle	4.0	24.70	24.70	24.70	8.24	8.24	8.25	32.32	32.32	89.0	89.1	89.0	6.15	6.16	6.15	8.06	8.07
	15:27		Middle	4.0	24.70	24.70		8.26	8.26		32.32	32.32		89.0	89.0	6.15	6.15	8.08	8.12	
07/05/2018	14:35	Cloudy	Middle	4.0	26.20	26.20	26.30	8.21	8.21	8.22	32.15	32.15	87.9	88.1	87.9	5.91	5.93	5.91	8.50	8.50
	14:37		Middle	4.0	26.40	26.40		8.22	8.22		32.15	32.15		87.8	87.9	5.90	5.91	8.49	8.44	
09/05/2018	18:35	Cloudy	Middle	3.5	23.20	3.20	18.20	8.19	8.19	8.19	32.87	32.87	74.5	75.1	74.9	5.30	5.29	5.26	2.84	2.85
	18:36		Middle	3.5	23.20	23.20		8.19	8.19		32.87	32.87		74.2	73.9	5.24	5.21	2.85	2.76	
12/05/2018	10:05	Cloudy	Middle	4.0	25.10	25.10	25.15	8.22	8.22	8.24	32.73	32.73	88.1	88.2	87.9	6.04	6.01	6.02	8.51	8.43
	10:07		Middle	4.0	25.20	25.20		8.25	8.25		32.72	32.72		88.7	87.4	6.06	5.98	8.42	8.41	
14/05/2018	13:15	Fine	Middle	4.0	27.40	27.40	27.50	8.14	8.14	8.15	31.67	31.67	84.5	84.6	84.8	5.59	5.60	5.58	9.58	9.56
	13:17		Middle	4.0	27.60	27.60		8.16	8.16		31.66	31.66		84.3	84.4	5.56	5.57	9.58	9.60	
16/05/2018	13:20	Fine	Middle	3.5	27.40	27.40	27.20	8.03	8.03	8.03	30.66	30.66	86.3	86.7	87.0	5.82	5.84	5.80	17.27	17.28
	13:22		Middle	3.5	27.00	27.00		8.02	8.02		30.70	30.70		85.8	85.8	5.75	5.79	17.26	17.25	
19/05/2018	14:15	Fine	Middle	4.0	28.30	28.30	28.40	8.18	8.18	8.18	29.64	29.64	85.1	85.8	85.2	5.65	5.61	5.60	8.38	8.38
	14:17		Middle	4.0	28.50	28.50		8.18	8.18		29.65	29.65		84.5	85.0	5.55	5.59	8.39	8.39	
21/05/2018	17:15	Fine	Middle	4.0	29.10	29.10	28.90	8.13	8.13	8.16	29.56	29.56	84.9	84.9	85.0	5.58	5.58	5.57	13.05	13.00
	17:17		Middle	4.0	28.70	28.70		8.18	8.18		29.55	29.55		84.4	85.3	5.53	5.59	12.97	12.95	
23/05/2018	19:05	Fine	Middle	3.5	27.10	27.10	27.10	8.22	8.22	8.22	29.99	29.99	66.0	65.4	65.7	4.40	4.42	4.44	1.27	1.30
	19:06		Middle	3.5	27.10	27.10		8.22	8.22		29.99	29.99		66.4	66.6	4.46	4.48	1.48	1.45	
25/05/2018	09:20	Fine	Middle	4.0	27.80	27.80	27.85	8.29	8.29	8.30	30.17	30.17	86.4	86.0	85.2	5.70	5.65	5.67	8.08	8.05
	09:22		Middle	4.0	27.90	27.90		8.30	8.30		30.17	30.17		85.7	85.3	5.68	5.65	8.05	8.03	
28/05/2018	13:30	Fine	Middle	3.5	30.20	30.20	30.20	8.28	8.28	8.28	29.11	29.11	86.4	86.5	86.9	5.56	5.58	5.55	8.09	8.08
	13:32		Middle	3.5	30.20	30.20		8.28	8.28		29.15	29.15		85.9	86.2	5.51	5.53	8.09	8.08	
30/05/2018	11:48	Fine	Middle	3.0	29.50	29.50	29.60	8.04	8.04	8.05	30.99	30.99	82.9	84.4	84.4	5.42	5.42	5.30	8.75	8.71
	11:50		Middle	3.0	29.70	29.70		8.06	8.06		30.98	30.98		82.6	80.3	5.30	5.05	8.73	8.28	

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

12.00

4.00

6.00

4.50

2.00



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids	
			m		°C		-		ppt		%		mg/L		NTU		mg/L	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
02/05/2018	14:40	Fine	Middle	4	26.70	26.70	26.80	8.13	8.13	8.12	31.21	31.21	31.21	83.7	83.3	83.5	5.58	5.59
	14:42		Middle	4	26.90	26.90		8.11	8.11		31.21	31.21		83.5	83.6		5.59	5.66
04/05/2018	15:20	Cloudy	Middle	4	25.00	25.00	25.00	8.17	8.17	8.16	29.14	29.15	29.14	70.7	71.2	71.1	4.95	4.98
	15:22		Middle	4	25.00	25.00		8.14	8.14		29.14	29.14		71.3	71.3		4.99	4.99
07/05/2018	14:30	Cloudy	Middle	4	26.90	26.90	27.00	8.16	8.16	8.17	32.35	32.35	32.35	84.1	84.4	84.2	5.59	5.60
	14:32		Middle	4	27.10	27.10		8.18	8.18		32.34	32.34		84.4	83.8		5.60	5.50
09/05/2018	18:43	Cloudy	Middle	3	23.30	23.30	23.30	7.67	7.66	7.65	28.72	28.72	28.72	17.6	18.4	18.3	1.27	1.33
	18:44		Middle	3	23.30	23.30		7.64	7.64		28.72	28.72		18.7	18.4		1.35	1.33
12/05/2018	10:00	Cloudy	Middle	4	25.40	25.40	25.45	8.20	8.20	8.20	31.36	31.36	31.36	78.0	77.8	77.9	5.35	5.34
	10:02		Middle	4	25.50	25.50		8.20	8.20		31.35	31.35		77.8	78.1		5.33	5.35
14/05/2018	13:20	Fine	Middle	4	28.10	28.10	28.20	8.10	8.10	8.10	30.33	30.33	30.33	71.8	72.3	72.7	4.73	4.76
	13:22		Middle	4	28.30	28.30		8.09	8.09		30.33	30.33		73.3	73.2		4.82	4.81
16/05/2018	13:15	Fine	Middle	4	27.60	27.60	27.75	8.05	8.05	8.06	25.76	25.76	25.76	61.4	61.4	61.7	4.18	4.18
	13:17		Middle	4	27.90	27.90		8.06	8.06		25.76	25.76		61.8	62.2		4.20	4.22
19/05/2018	14:20	Fine	Middle	4	28.70	28.70	28.80	8.17	8.17	8.18	29.02	29.02	29.02	80.1	80.3	80.0	5.26	5.27
	14:22		Middle	4	28.90	28.90		8.18	8.18		29.02	29.02		79.7	79.9		5.22	5.23
21/05/2018	17:20	Fine	Middle	4	28.80	28.80	28.90	8.15	8.15	8.15	27.72	27.72	27.72	70.9	71.1	71.3	4.68	4.69
	17:22		Middle	4	29.00	29.00		8.14	8.14		27.72	27.72		71.5	71.7		4.72	4.73
23/05/2018	19:13	Fine	Middle	3	27.40	27.40	27.40	7.92	7.92	7.92	26.75	26.75	26.75	64.8	65.1	65.1	4.42	4.44
	19:14		Middle	3	27.40	27.40		7.92	7.92		26.75	26.75		64.9	65.4		4.43	4.46
25/05/2018	09:15	Fine	Middle	4	28.40	28.40	28.45	8.26	8.26	8.27	29.64	29.64	29.64	85.1	85.3	84.7	5.60	5.61
	09:17		Middle	4	28.50	28.50		8.27	8.27		29.64	29.64		84.4	84.1		5.55	5.53
28/05/2018	13:25	Fine	Middle	4	31.20	31.20	31.30	8.25	8.25	8.25	29.05	29.05	29.05	84.2	84.7	84.1	5.31	5.34
	13:27		Middle	4	31.40	31.40		8.25	8.25		29.05	29.05		83.6	84.0		5.27	5.29
30/05/2018	11:44	Fine	Middle	3	30.10	30.10	30.35	8.01	8.01	8.01	28.82	28.82	28.84	69.2	69.8	67.6	4.42	4.46
	11:46		Middle	3	30.60	30.60		8.00	8.00		28.85	28.85		67.3	64.0		4.30	4.09

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids		
			m		°C		-		ppt		%		mg/L		NTU		mg/L		
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
01/06/2018	21:37	Cloudy	Middle	3.0	29.40	29.40	29.40	8.04	8.04	8.04	31.16	31.16	31.16	79.4	80.3	79.9	5.12	5.17	5.15
	21:38		Middle	3.0	29.40	29.40		8.04	8.04		31.16	31.16		80.0	79.8		5.15	5.14	
04/06/2018	09:25	Cloudy	Middle	4.0	27.20	27.20	27.20	8.27	8.27	8.28	31.16	31.16	31.16	82.8	83.6	82.6	5.52	5.57	5.50
	09:27		Middle	4.0	27.20	27.20		8.28	8.28		31.16	31.16		81.4	82.4		5.43	5.49	
06/06/2018	03:53	Cloudy	Middle	3.5	28.00	28.00	28.00	8.00	8.00	8.00	30.38	30.38	30.38	77.8	77.9	77.6	5.13	5.15	5.12
	03:54		Middle	3.5	28.00	28.00		8.00	8.00		30.38	30.38		77.5	77.0		5.12	5.08	
09/06/2018	20:05	Cloudy	Middle	3.5	30.50	30.50	30.50	7.98	7.98	7.98	29.19	29.19	29.19	81.9	80.5	81.1	4.92	4.84	4.88
	20:06		Middle	3.5	30.50	30.50		7.98	7.98		29.19	29.19		80.7	81.1		4.86	4.88	
11/06/2018	15:10	Fine	Middle	4.0	29.40	29.40	29.50	8.20	8.20	8.24	29.16	29.16	29.16	86.8	87.0	86.8	5.64	5.67	5.63
	15:12		Middle	4.0	29.60	29.60		8.28	8.28		29.15	29.15		85.9	87.5		5.56	5.63	
13/06/2018	-	Amber Rainstorm Warning Signal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-		-	-		-		-	-	-	-			
15/06/2018	21:17	Cloudy	Middle	3.5	29.40	29.40	29.40	8.10	8.10	8.10	30.05	30.05	30.05	74.2	74.4	74.4	4.66	4.66	4.67
	21:18		Middle	3.5	29.40	29.40		8.10	8.10		30.05	30.05		74.4	74.5		4.68	4.67	
19/06/2018	11:55	Fine	Middle	4.0	29.10	29.10	29.15	8.16	8.16	8.16	29.18	29.18	29.18	90.5	90.6	90.2	5.91	5.92	5.89
	11:57		Middle	4.0	29.20	29.20		8.16	8.16		29.18	29.18		89.5	90.3		5.84	5.89	
22/06/2018	01:58	Cloudy	Middle	3.0	28.50	28.50	28.50	8.01	8.01	8.01	25.41	25.40	25.40	69.4	70.2	70.3	4.74	4.76	4.78
	01:59		Middle	3.0	28.50	28.50		8.01	8.01		25.40	25.40		70.7	70.9		4.82	4.80	
24/06/2018	01:07	Cloudy	Middle	3.5	27.90	27.90	27.90	8.03	8.03	8.03	25.58	25.58	25.58	72.3	73.4	72.7	4.91	4.99	4.94
	01:08		Middle	3.5	27.90	27.90		8.03	8.03		25.58	25.58		72.4	72.7		4.92	4.94	
26/06/2018	17:45	Fine	Middle	3.5	28.90	28.90	28.95	8.23	8.23	8.23	26.53	26.53	26.56	94.9	95.8	95.1	6.31	6.36	6.31
	17:47		Middle	3.5	29.00	29.00		8.23	8.23		26.58	26.58		94.8	94.9		6.29	6.29	
28/06/2018	20:31	Fine	Middle	3.5	29.40	29.40	29.40	8.14	8.14	8.14	27.78	27.78	27.78	78.2	78.1	77.6	5.04	5.04	5.00
	20:32		Middle	3.5	29.40	29.40		8.14	8.14		27.78	27.78		76.8	77.2		4.95	4.98	
30/06/2018	20:10	Cloudy	Middle	2.5	29.10	29.10	29.10	8.11	8.11	8.11	27.18	27.18	27.18	77.4	78.4	77.5	5.12	5.20	5.13
	20:11		Middle	2.5	29.10	29.10		8.11	8.11		27.18	27.18		76.6	77.5		5.07	5.13	

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids				
			m		°C		-		ppt		%		mg/L		NTU		mg/L				
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
01/06/2018	21:43	Cloudy	Middle	2.5	29.10	29.10	29.10	7.92	7.92	7.92	27.78	27.78	27.78	72.8	73.1	72.3	4.78	4.80	4.75		
	21:44		Middle	2.5	29.10	29.10		7.92	7.92		27.78	27.78		71.7	71.5		4.71	4.70		3.99	3.85
04/06/2018	09:20	Cloudy	Middle	3.5	27.20	27.20	27.25	8.26	8.26	8.26	30.78	30.78	30.78	76.3	75.9	76.0	5.10	5.07	5.08		
	09:22		Middle	3.5	27.30	27.30		8.26	8.26		30.78	30.78		75.9	76.0		5.06	5.07		2.85	2.86
06/06/2018	04:01	Cloudy	Middle	3.0	28.00	28.00	28.00	7.78	7.78	7.78	22.59	22.59	22.59	68.3	71.1	70.9	4.73	4.90	4.90		
	04:02		Middle	3.0	28.00	28.00		7.78	7.78		22.59	22.59		72.5	71.8		5.01	4.96		1.10	1.04
09/06/2018	20:13	Cloudy	Middle	3.0	29.00	29.00	29.00	7.50	7.50	7.50	22.31	22.31	22.31	53.6	55.3	54.4	3.41	3.52	3.46		
	20:14		Middle	3.0	29.00	29.00		7.50	7.50		22.31	22.31		54.3	54.2		3.46	3.45		3.13	3.15
11/06/2018	15:05	Fine	Middle	3.5	30.10	30.10	30.25	8.22	8.22	8.24	29.16	29.16	29.16	86.4	86.1	85.7	5.51	5.51	5.48		
	15:07		Middle	3.5	30.40	30.40		8.25	8.25		29.16	29.16		84.9	85.3		5.43	5.45		7.06	7.07
13/06/2018	-	Amber Rainstorm Warning Signal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-		-	-	-	-	-	-			
15/06/2018	21:23	Cloudy	Middle	3.0	29.60	29.60	29.60	7.60	7.61	7.60	27.19	27.19	27.19	52.0	53.6	53.8	3.31	3.41	3.42		
	21:24		Middle	3.0	29.60	29.60		7.59	7.59		27.19	27.19		54.9	54.7		3.49	3.47		1.30	1.28
19/06/2018	11:50	Fine	Middle	3.5	29.50	29.50	29.40	8.13	8.13	8.14	28.92	28.92	28.92	84.5	85.0	84.8	5.51	5.53	5.52		
	11:52		Middle	3.5	29.30	29.30		8.14	8.14		28.92	28.92		84.8	84.9		5.52	5.53		2.85	2.84
22/06/2018	02:21	Cloudy	Middle	2.5	28.60	28.60	28.60	7.52	7.52	7.52	23.09	23.09	23.09	17.9	18.5	18.5	1.22	1.26	1.26		
	02:22		Middle	2.5	28.60	28.60		7.52	7.52		23.09	23.09		19.0	18.7		1.29	1.28		4.11	4.54
24/06/2018	01:14	Cloudy	Middle	3.0	28.10	28.10	28.10	7.82	7.82	7.82	22.73	22.73	22.74	29.3	29.0	29.5	2.10	2.13	2.14		
	01:15		Middle	3.0	28.10	28.10		7.82	7.82		22.74	22.74		29.7	29.8		2.16	2.15		1.06	1.13
26/06/2018	17:40	Fine	Middle	3.5	29.00	29.00	29.05	8.16	8.16	8.18	26.59	26.59	26.60	94.4	93.9	93.6	6.24	6.22	6.20		
	17:42		Middle	3.5	29.10	29.10		8.20	8.20		26.61	26.61		93.0	93.2		6.16	6.17		4.27	4.27
28/06/2018	20:40	Fine	Middle	3.0	29.00	29.00	29.00	7.81	7.81	7.81	24.61	24.61	24.61	12.7	13.4	13.4	0.84	0.89	0.89		
	20:41		Middle	3.0	29.00	29.00		7.80	7.80		24.61	24.61		13.6	14.0		0.89	0.92		1.33	1.20
30/06/2018	20:20	Cloudy	Middle	2.5	29.20	29.20	29.20	7.71	7.71	7.71	22.16	22.16	22.16	57.5	57.8	57.5	3.90	3.92	3.90		
	20:21		Middle	2.5	29.20	29.20		7.71	7.71		22.16	22.16		57.4	57.3		3.89	3.89		2.44	2.31

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids		
			m		°C		-		ppt		%		mg/L		NTU		mg/L		
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
01/06/2018	14:40	Fine	Middle	4.0	28.70	28.70	28.50	8.12	8.12	8.11	30.27	30.27	30.37	79.0	80.0	81.1	5.20	5.25	5.33
	14:42		Middle	4.0	28.30	28.30		8.10	8.10		30.46	30.46		82.7	82.8		5.44	5.44	
04/06/2018	13:50	Cloudy	Middle	4.0	28.00	28.00	28.05	8.38	8.38	8.38	31.06	31.06	31.06	86.4	86.4	85.9	5.68	5.68	5.65
	13:52		Middle	4.0	28.10	28.10		8.38	8.38		31.06	31.06		85.3	85.6		5.60	5.62	
06/06/2018	-	Amber Rainstorm Warning Sginal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-		-	-		-	-		-	-	-	-		
09/06/2018	10:45	Fine	Middle	4.0	28.00	28.00	28.00	8.10	8.10	8.11	28.63	28.63	28.64	81.5	81.3	81.4	5.44	5.42	5.43
	10:47		Middle	4.0	28.00	28.00		8.12	8.12		28.65	28.65		81.4	81.4		5.43	5.43	
11/06/2018	11:20	Fine	Middle	4.0	29.10	29.10	29.15	8.23	8.23	8.23	29.27	29.27	29.27	83.0	83.3	82.9	5.42	5.44	5.41
	11:22		Middle	4.0	29.20	29.20		8.23	8.23		29.26	29.26		82.3	83.1		5.38	5.41	
13/06/2018	13:20	Cloudy	Middle	3.5	27.40	27.40	27.40	8.24	8.24	8.24	28.50	28.50	28.50	80.1	80.2	79.9	5.41	5.41	5.40
	13:22		Middle	3.5	27.40	27.40		8.24	8.24		28.50	28.50		79.4	80.0		5.36	5.40	
15/06/2018	13:55	Cloudy	Middle	4.0	27.70	27.70	27.70	8.16	8.16	8.16	29.47	29.47	29.48	90.1	90.2	90.1	6.06	6.02	6.03
	13:57		Middle	4.0	27.70	27.70		8.16	8.16		29.49	29.49		90.1	90.0		6.01	6.01	
19/06/2018	15:55	Cloudy	Middle	4.0	29.00	29.00	29.00	8.15	8.15	8.15	27.87	27.87	27.87	89.9	89.4	89.9	5.93	5.89	5.93
	15:57		Middle	4.0	29.00	29.00		8.15	8.15		27.87	27.87		90.1	90.2		5.94	5.95	
21/06/2018	20:35	Cloudy	Middle	3.0	28.60	28.60	28.60	8.04	8.04	8.04	25.58	25.58	25.58	69.3	70.0	69.5	4.66	4.70	4.67
	20:36		Middle	3.0	28.60	28.60		8.04	8.04		25.58	25.58		69.2	69.5		4.65	4.68	
23/06/2018	22:25	Cloudy	Middle	3.5	28.00	28.00	28.00	7.90	7.90	7.92	25.58	25.58	25.58	71.3	72.0	71.5	4.84	4.89	4.85
	22:26		Middle	3.5	28.00	28.00		7.93	7.93		25.58	25.58		71.0	71.5		4.82	4.86	
26/06/2018	13:05	Cloudy	Middle	3.5	29.80	29.80	29.75	8.21	8.21	8.22	26.76	26.76	26.76	95.7	95.3	95.0	6.28	6.25	6.23
	13:07		Middle	3.5	29.70	29.70		8.22	8.22		26.76	26.76		94.4	94.7		6.18	6.20	
28/06/2018	11:20	Fine	Middle	3.5	28.50	28.50	28.50	8.16	8.16	8.16	26.70	26.70	26.70	92.4	92.9	92.5	6.18	6.20	6.18
	11:22		Middle	3.5	28.50	28.50		8.16	8.16		26.70	26.70		92.5	92.2		6.19	6.16	
30/06/2018	13:05	Cloudy	Middle	3.5	29.30	29.30	29.35	8.13	8.13	8.14	26.50	26.50	26.51	94.0	94.4	93.7	6.21	6.23	6.18
	13:07		Middle	3.5	29.40	29.40		8.15	8.15		26.52	26.52		93.4	93.1		6.15	6.13	



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids							
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
01/06/2018	14:35	Fine	Middle	4	28.70	28.70	28.80	8.14	8.14	8.12	28.18	28.18	28.68	63.9	64.3	63.9	4.22	4.25	4.21	8.16	8.17	4	4.50	
	14:37		Middle	4	28.90	28.90		8.10	8.10		29.18	29.18		63.7	63.5		4.20	4.18		8.17	8.16		5	
04/06/2018	13:45	Cloudy	Middle	4	28.30	28.30	28.40	8.32	8.32	8.33	30.80	30.80	30.80	84.3	84.4	84.5	5.51	5.52	5.53	3.00	3.01	3	2.50	
	13:47		Middle	4	28.50	28.50		8.34	8.34		30.80	30.80		84.8	84.6		5.54	5.53		3.09	3.06		2	
06/06/2018	-	Amber Rainstorm Warning Sginal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-		Middle	-	-	-		-	-		-	-		-	-	-	-	-	-					
09/06/2018	10:40	Fine	Middle	4	28.10	28.10	28.20	8.12	8.12	8.12	26.22	26.22	26.22	71.6	72.7	72.1	4.86	4.90	4.87	7.63	7.61	7.62	4	5.00
	10:42		Middle	4	28.30	28.30		8.11	8.11		26.22	26.22		71.9	72.2		4.84	4.86		7.62	7.62		6	
11/06/2018	11:15	Fine	Middle	4	30.00	30.00	30.10	8.17	8.17	8.19	29.14	29.14	29.15	85.6	84.8	84.2	5.50	5.45	5.41	7.47	7.46	7.47	5	5.50
	11:17		Middle	4	30.20	30.20		8.21	8.21		29.16	29.16		83.4	83.0		5.35	5.33		7.46	7.47		6	
13/06/2018	13:15	Cloudy	Middle	4	27.40	27.40	27.45	8.17	8.17	8.19	28.37	28.37	28.37	79.2	79.9	79.3	5.35	5.39	5.35	1.57	1.48	1.52	7	6.00
	13:17		Middle	4	27.50	27.50		8.21	8.21		28.37	28.37		79.1	79.0		5.33	5.33		1.52	1.52		5	
15/06/2018	13:50	Cloudy	Middle	4	27.80	27.80	27.80	8.14	8.14	8.15	29.59	29.59	29.59	91.9	91.8	91.2	6.13	6.12	6.08	1.62	1.55	1.58	3	2.50
	13:52		Middle	4	27.80	27.80		8.15	8.15		29.59	29.59		90.9	90.3		6.06	6.02		1.57	1.57		2	
19/06/2018	15:50	Cloudy	Middle	4	29.10	29.10	29.10	8.10	8.10	8.10	27.86	27.86	27.87	85.8	84.9	85.7	5.65	5.59	5.64	1.98	1.95	1.94	6	5.00
	15:52		Middle	4	29.10	29.10		8.10	8.10		27.87	27.87		85.9	86.0		5.66	5.66		1.92	1.90		4	
21/06/2018	20:43	Cloudy	Middle	3	28.60	28.60	28.60	7.71	7.71	7.71	23.17	23.17	23.17	15.5	15.9	15.7	1.06	1.08	1.07	3.01	2.94	2.89	7	6.50
	20:44		Middle	3	28.60	28.60		7.71	7.71		23.17	23.17		15.4	15.8		1.05	1.08		2.81	2.79		6	
23/06/2018	22:37	Cloudy	Middle	3	28.10	28.10	28.10	7.52	7.52	7.52	21.20	21.20	21.20	31.0	32.0	31.8	2.22	2.23	2.25	1.08	1.12	1.14	4	4.00
	22:38		Middle	3	28.10	28.10		7.52	7.52		21.20	21.20		32.3	32.0		2.26	2.28		1.16	1.18		4	
26/06/2018	13:00	Cloudy	Middle	4	29.80	29.80	29.85	8.17	8.17	8.17	26.72	26.72	26.72	93.5	93.3	93.2	6.12	6.10	6.10	4.18	4.15	4.16	8	8.00
	13:02		Middle	4	29.90	29.90		8.17	8.17		26.72	26.72		93.2	92.8		6.09	6.07		4.16	4.16		8	
28/06/2018	11:15	Fine	Middle	4	28.50	28.50	28.55	8.04	8.04	8.05	23.81	23.81	23.81	79.4	79.6	79.6	5.39	5.40	5.40	7.19	7.23	7.23	6	6.50
	11:17		Middle	4	28.60	28.60		8.05	8.05		23.80	23.80		79.6	79.7		5.40	5.40		7.25	7.26		7	
30/06/2018	13:00	Cloudy	Middle	4	29.80	29.80	29.95	7.96	7.96	7.96	23.45	23.45	23.45	83.4	83.6	83.4	5.54	5.53	5.53	9.42	9.43	9.41	10	9.50
	13:02		Middle	4	30.10	30.10		7.96	7.96		23.45	23.45		83.3	83.1		5.53	5.51		9.40	9.39		9	



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids							
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
03/07/2018	08:25	Cloudy	Middle	4.0	27.30	27.30	27.35	8.10	8.10	8.10	28.08	28.08	28.08	86.2	86.8	86.8	5.83	5.87	5.87	2.47	2.47	2.47	4	3.50
	08:27		Middle	4.0	27.40	27.40		8.10	8.10		28.08	28.08		87.1	87.2		5.89	5.90		2.47	2.46		3	
05/07/2018	09:50	Fine	Middle	4.0	28.70	28.70	28.70	8.04	8.04	8.04	26.70	26.70	26.70	84.3	84.3	83.8	5.62	5.62	5.59	1.98	1.99	2.00	4	4.50
	09:52		Middle	4.0	28.70	28.70		8.04	8.04		26.70	26.70		83.3	83.4		5.55	5.56		2.01	2.00		5	
08/07/2018	23:34	Cloudy	Middle	3.0	32.30	32.30	32.30	8.13	8.13	8.13	27.03	27.03	27.03	78.5	78.3	78.2	4.78	4.77	4.77	1.22	1.53	1.51	7	7.00
	23:35		Middle	3.0	32.30	32.30		8.13	8.13		27.03	27.03		77.2	78.6		4.71	4.80		1.78	1.50		7	
10/07/2018	15:57	Fine	Middle	4.0	29.40	29.40	29.45	8.33	8.33	8.33	27.50	27.50	27.50	69.3	69.7	70.4	4.54	4.57	4.61	3.69	3.68	3.69	6	6.50
	15:59		Middle	4.0	29.50	29.50		8.33	8.33		27.50	27.50		71.0	71.5		4.65	4.68		3.68	3.70		7	
12/07/2018	17:47	Cloudy	Middle	3.0	27.70	27.70	27.70	7.73	7.76	7.76	29.91	29.91	29.91	77.5	75.9	76.3	5.16	5.06	5.09	2.67	2.33	2.45	7	9.00
	17:48		Middle	3.0	27.70	27.70		7.78	7.78		29.91	29.91		76.0	75.8		5.10	5.05		2.41	2.39		11	
14/07/2018	21:45	Cloudy	Middle	3.5	26.10	26.10	26.10	7.94	7.94	7.94	30.54	30.54	30.54	79.6	79.9	79.9	5.42	5.45	5.44	5.02	5.13	5.08	9	10.00
	21:46		Middle	3.5	26.10	26.10		7.94	7.94		30.54	30.54		80.2	79.8		5.46	5.44		5.10	5.08		11	
16/07/2018	09:02	Rainy	Middle	3.5	26.80	26.80	26.80	7.95	7.95	7.97	29.67	29.67	29.67	56.7	57.3	57.1	3.84	3.88	3.86	9.95	9.82	9.83	11	11.00
	09:04		Middle	3.5	26.80	26.80		7.98	7.98		29.67	29.67		57.1	57.2		3.86	3.87		9.77	9.76		11	
18/07/2018	-	Tropical Cyclone Warning Signal No. 3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-		Middle	-	-	-		-	-		-		-	-	-	-	-	-	-					
21/07/2018	02:40	Fine	Middle	3.5	29.00	29.00	29.00	7.95	7.95	7.95	30.35	30.35	30.35	80.5	78.3	79.8	5.26	5.10	5.21	2.33	2.35	2.25	3	4.00
	02:41		Middle	3.5	29.00	29.00		7.95	7.95		30.35	30.35		81.2	79.0		5.29	5.17		2.16	2.14		5	
24/07/2018	16:35	Cloudy	Middle	3.5	28.80	28.80	28.85	8.16	8.16	8.16	29.49	29.49	29.49	92.9	93.1	92.7	6.09	6.31	6.12	7.01	7.06	7.05	7	8.00
	16:37		Middle	3.5	28.90	28.90		8.16	8.16		29.49	29.49		92.2	92.6		6.02	6.06		7.06	7.07		9	
26/07/2018	21:11	Cloudy	Middle	3.5	29.70	29.70	29.70	7.96	7.96	7.96	28.94	28.94	28.94	74.3	77.3	75.1	4.74	4.94	4.78	1.28	1.27	1.23	6	6.50
	21:12		Middle	3.5	29.70	29.70		7.96	7.96		28.94	28.94		75.3	73.4		4.81	4.64		1.23	1.12		7	
28/07/2018	21:30	Fine	Middle	3.5	29.30	29.30	29.30	8.00	8.00	8.00	29.21	29.21	29.21	81.6	81.2	80.9	5.23	5.21	5.19	1.54	1.10	1.31	3	3.00
	21:31		Middle	3.5	29.30	29.30		8.00	8.00		29.21	29.21		80.7	80.0		5.17	5.13		1.34	1.24		3	
30/07/2018	07:22	Fine	Middle	3.0	28.80	28.80	28.80	8.05	8.05	8.05	28.42	28.42	28.42	76.9	79.1	78.8	5.06	5.21	5.17	1.23	1.19	1.19	2	3.00
	07:23		Middle	3.0	28.80	28.80		8.05	8.05		28.42	28.42		79.9	79.2		5.20	5.21		1.18	1.14		4	

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							
					m		°C		-		ppt		%		mg/L		NTU		mg/L					
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
03/07/2018	08:20	Cloudy	Middle	3.5	27.60	27.60	27.60	8.07	8.07	8.07	27.79	27.79	27.80	80.1	80.7	80.9	5.41	5.45	5.46	2.86	2.90	2.90	3	3.00
	08:22		Middle	3.5	27.60	27.60		8.07	8.07		27.80	27.80		81.4	81.4		5.49	5.49		2.91	2.92		3	
05/07/2018	09:45	Fine	Middle	3.5	28.70	28.70	28.75	8.05	8.05	8.05	26.26	26.26	26.27	83.2	83.9	84.2	5.57	5.61	5.63	2.76	2.70	2.54	4	4.00
	09:47		Middle	3.5	28.80	28.80		8.05	8.05		26.27	26.27		85.0	84.8		5.67	5.66		2.00	2.70		4	
08/07/2018	23:41	Cloudy	Middle	2.5	32.20	32.20	32.20	7.82	7.82	7.82	25.45	25.45	25.45	35.7	36.9	36.4	2.20	2.26	2.23	2.53	2.50	2.58	8	7.00
	23:42		Middle	2.5	32.20	32.20		7.82	7.82		25.45	25.45		35.8	37.1		2.20	2.26		2.79	2.48		6	
10/07/2018	15:52	Fine	Middle	3.5	29.50	29.50	29.65	8.30	8.30	8.30	26.75	26.75	26.75	52.3	52.5	55.9	3.43	3.46	3.66	3.95	3.87	3.74	8	8.00
	15:54		Middle	3.5	29.80	29.80		8.30	8.30		26.74	26.74		59.3	59.4		3.87	3.87		3.57	3.57		8	
12/07/2018	18:00	Cloudy	Middle	3.0	27.80	27.80	27.78	7.59	7.59	7.58	26.99	26.99	26.99	58.0	58.8	59.6	3.92	3.98	4.03	2.14	1.97	2.06	9	8.50
	18:01		Middle	3.0	27.80	27.70		7.57	7.57		26.99	26.99		60.9	60.5		4.11	4.09		2.03	2.11		8	
14/07/2018	21:54	Cloudy	Middle	3.0	26.00	26.00	26.00	7.92	7.92	7.92	20.02	20.02	20.02	33.4	34.3	33.8	2.42	2.48	2.44	1.23	1.10	1.18	10	9.50
	21:55		Middle	3.0	26.00	26.00		7.92	7.92		20.02	20.02		33.6	33.7		2.43	2.44		1.20	1.17		9	
16/07/2018	08:58	Rainy	Middle	3.5	27.00	27.00	27.05	7.88	7.88	7.90	29.59	29.59	29.59	54.4	54.4	54.3	3.67	3.67	3.66	9.64	9.68	9.68	10	9.50
	09:00		Middle	3.5	27.10	27.10		7.91	7.91		29.59	29.58		54.2	54.0		3.66	3.64		9.69	9.69		9	
18/07/2018	-	Tropical Cyclone Warning Signal No. 3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-		Middle	-	-	-		-	-		-		-	-	-	-	-	-	-					
21/07/2018	02:47	Fine	Middle	3.0	29.00	29.00	29.00	7.75	7.75	7.75	26.67	26.67	26.67	32.5	33.0	33.0	2.16	2.21	2.20	1.39	1.45	1.43	3	3.00
	02:48		Middle	3.0	29.00	29.00		7.75	7.75		26.67	26.67		33.4	33.1		2.22	2.20		1.40	1.47		3	
24/07/2018	16:30	Cloudy	Middle	3.5	29.20	29.20	29.25	8.12	8.12	8.14	29.43	29.43	29.43	97.3	97.1	96.6	6.33	6.32	6.28	7.01	7.06	7.03	6	6.00
	16:32		Middle	3.5	29.30	29.30		8.15	8.15		29.43	29.43		96.1	95.8		6.25	6.22		7.00	7.03		6	
26/07/2018	21:19	Cloudy	Middle	3.0	29.60	29.60	29.60	7.57	7.57	7.57	24.81	24.81	24.81	44.2	44.6	43.9	2.87	2.92	2.87	1.14	1.28	1.23	8	8.00
	21:20		Middle	3.0	29.60	29.60		7.57	7.57		24.81	24.81		42.8	44.1		2.80	2.89		1.31	1.20		1.23	
28/07/2018	21:39	Fine	Middle	3.0	29.20	29.20	29.20	7.69	7.69	7.69	24.67	24.67	24.67	54.9	54.9	62.3	3.62	3.68	3.63	1.21	1.18	1.18	4	4.00
	21:40		Middle	3.0	29.20	29.20		7.69	7.69		24.67	24.67		84.8	54.4		3.61	3.60		1.15	1.17		4	
30/07/2018	07:30	Fine	Middle	3.0	29.10	29.10	29.10	7.84	7.84	7.84	25.31	25.31	25.31	66.5	67.1	66.3	4.30	4.34	4.29	1.30	1.21	1.25	2	2.00
	07:31		Middle	3.0	29.10	29.10		7.84	7.84		25.31	25.31		66.0	65.7		4.27	4.25		1.26	1.23		2	

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

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

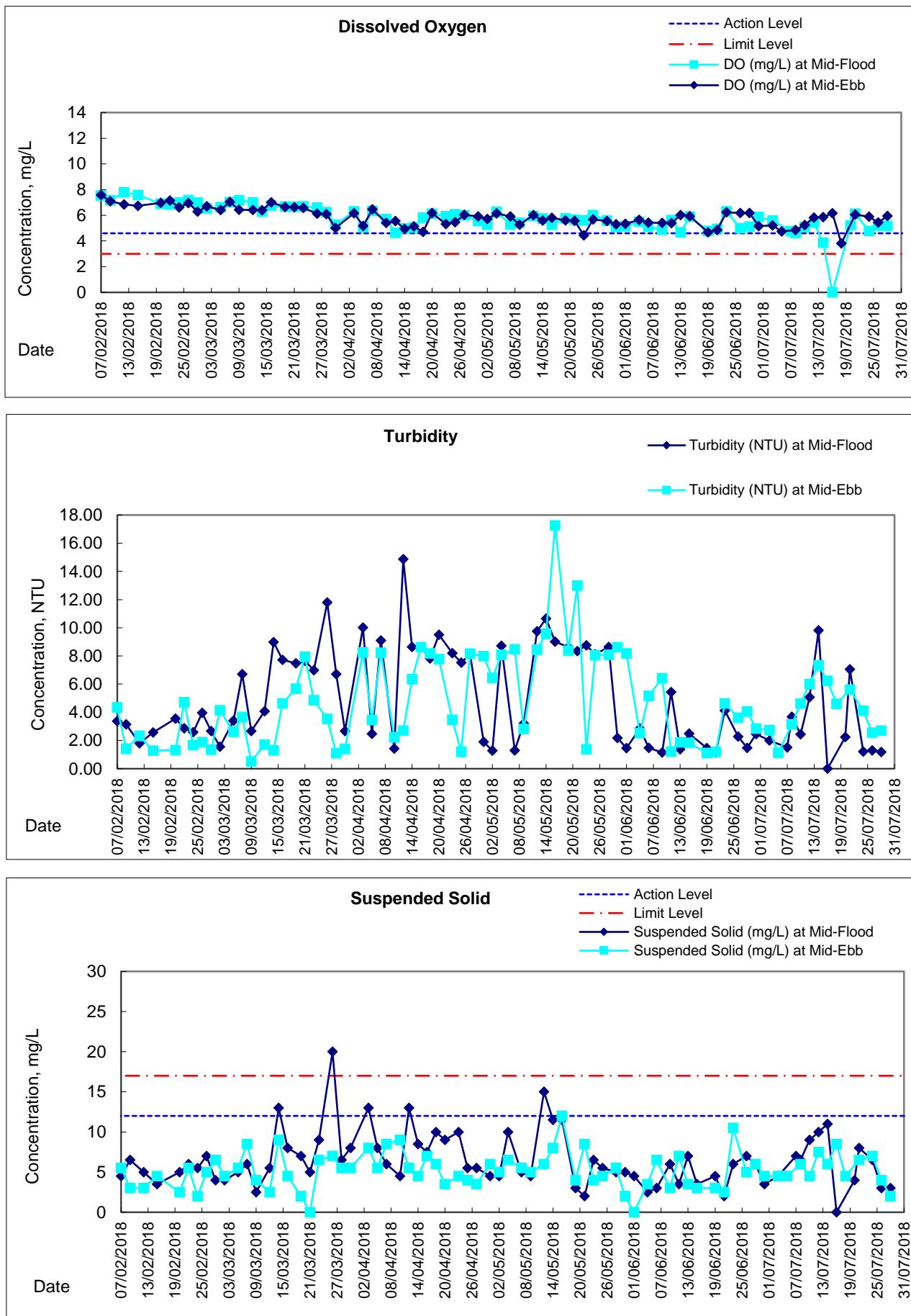
Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids							
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
03/07/2018	15:35	Cloudy	Middle	4.0	28.20	28.20	28.20	8.07	8.07	8.07	26.77	26.77	26.77	75.9	76.3	76.8	5.11	5.13	5.16	2.86	2.84	2.85	4	4.50
	15:37		Middle	4.0	28.20	28.20		8.07	8.07		26.77	26.77		77.4	77.5		5.20	5.21		2.84	2.85		5	
05/07/2018	14:35	Cloudy	Middle	4.0	27.90	27.90	27.90	8.13	8.13	8.13	26.61	26.61	26.61	78.0	77.7	77.1	5.28	5.25	5.21	2.76	2.76	2.74	5	4.50
	14:37		Middle	4.0	27.90	27.90		8.13	8.13		26.61	26.61		76.3	76.2		5.16	5.15		2.73	2.72		4	
07/07/2018	18:54	Cloudy	Middle	3.0	32.20	32.20	32.20	8.12	8.10	8.12	27.02	27.02	27.02	77.5	78.8	77.7	4.75	4.81	4.75	1.09	1.18	1.14	6	4.50
	18:55		Middle	3.0	32.20	32.20		8.12	8.12		27.02	27.02		77.2	77.4		4.72	4.73		1.16	1.13		3	
10/07/2018	09:46	Cloudy	Middle	3.5	27.70	27.70	27.70	8.26	8.26	8.27	28.08	28.08	28.08	72.8	72.3	72.1	4.90	4.87	4.85	3.12	3.12	3.15	6	6.00
	09:48		Middle	3.5	27.70	27.70		8.27	8.27		28.07	28.07		71.9	71.2		4.83	4.79		3.16	3.18		6	
12/07/2018	11:35	Fine	Middle	4.0	27.70	27.70	27.75	8.15	8.15	8.15	29.40	29.40	29.40	80.2	80.0	79.0	5.35	5.32	5.26	4.63	4.62	4.62	5	4.50
	11:37		Middle	4.0	27.80	27.80		8.15	8.15		29.40	29.40		78.1	77.5		5.20	5.15		4.61	4.62		4	
14/07/2018	11:25	Cloudy	Middle	4.0	27.00	27.00	27.05	8.10	8.10	8.11	30.82	30.82	30.83	86.9	87.2	87.2	5.81	5.83	5.83	6.02	6.00	6.00	7	7.50
	11:27		Middle	4.0	27.10	27.10		8.12	8.12		30.84	30.84		87.2	87.3		5.83	5.83		6.00	5.99		8	
16/07/2018	14:10	Fine	Middle	4.0	27.40	27.40	27.45	8.13	8.13	8.13	29.93	29.93	29.93	88.2	87.5	87.7	5.90	5.85	5.86	7.40	7.30	7.34	5	6.00
	14:12		Middle	4.0	27.50	27.50		8.13	8.13		29.93	29.93		87.4	87.7		5.84	5.86		7.32	7.33		7	
18/07/2018	15:35	Cloudy	Middle	4.0	27.40	27.40	27.40	7.89	7.89	7.90	30.40	30.40	30.40	92.4	93.0	92.8	6.12	6.20	6.17	6.23	6.23	6.24	8	8.50
	15:37		Middle	4.0	27.40	27.40		7.91	7.91		30.39	30.39		92.8	92.8		6.19	6.16		6.24	6.25		9	
20/07/2018	18:11	Fine	Middle	3.5	28.30	28.30	28.35	8.06	8.06	8.07	31.10	31.10	31.09	57.9	57.4	58.2	3.79	3.76	3.81	4.69	4.60	4.61	4	4.50
	18:13		Middle	3.5	28.40	28.40		8.07	8.07		31.08	31.08		58.3	59.2		3.82	3.87		4.57	4.57		5	
24/07/2018	10:10	Cloudy	Middle	4.0	28.80	28.80	28.80	8.01	8.01	8.02	30.11	30.11	30.11	92.7	93.1	92.9	6.05	6.08	6.06	5.68	5.60	5.62	7	6.50
	10:12		Middle	4.0	28.80	28.80		8.02	8.02		30.11	30.11		93.0	92.7		6.07	6.05		5.60	5.60		6	
26/07/2018	10:30	Fine	Middle	4.0	29.50	29.50	29.50	8.01	8.01	8.02	29.29	29.29	29.29	91.1	90.8	90.9	5.91	5.89	5.90	4.06	4.08	4.11	6	7.00
	10:32		Middle	4.0	29.50	29.50		8.02	8.02		29.28	29.28		91.0	90.7		5.90	5.89		4.17	4.14		8	
28/07/2018	11:45	Fine	Middle	4.0	29.40	29.40	29.45	8.03	8.03	8.04	29.42	29.42	29.42	82.8	83.3	83.8	5.38	5.41	5.44	2.56	2.56	2.56	4	4.00
	11:47		Middle	4.0	29.50	29.50		8.04	8.04		29.42	29.42		84.4	84.6		5.48	5.49		2.56	2.57		4	
30/07/2018	11:30	Fine	Middle	4.0	29.70	29.70	29.75	8.06	8.06	8.07	29.32	29.32	29.32	92.0	92.7	92.2	5.95	5.99	5.96	2.70	2.70	2.70	<2	2.00
	11:32		Middle	4.0	29.80	29.80		8.07	8.07		29.31	29.31		91.9	92.1		5.94	5.94		2.70	2.71		2	

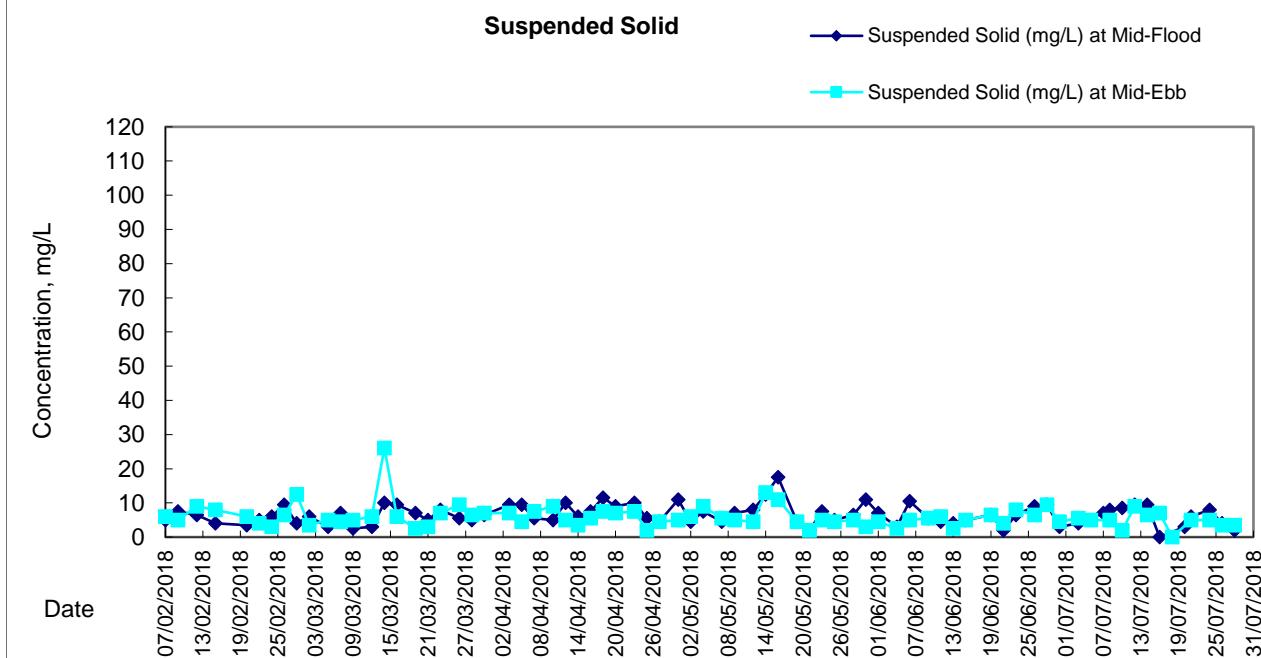
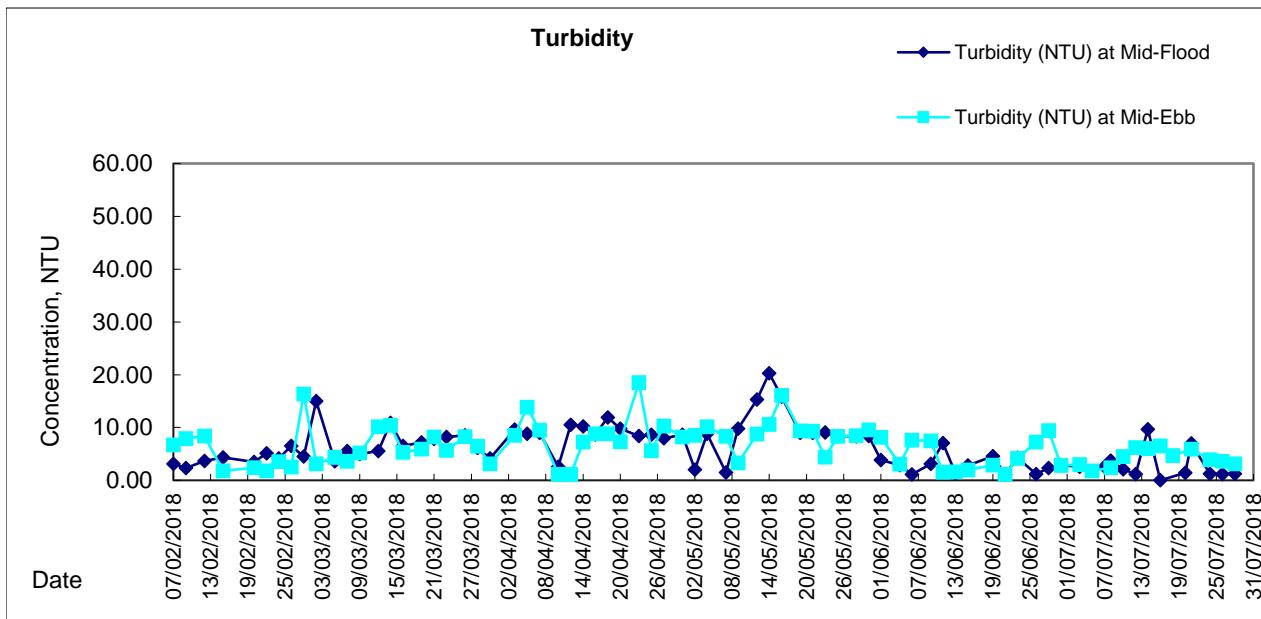
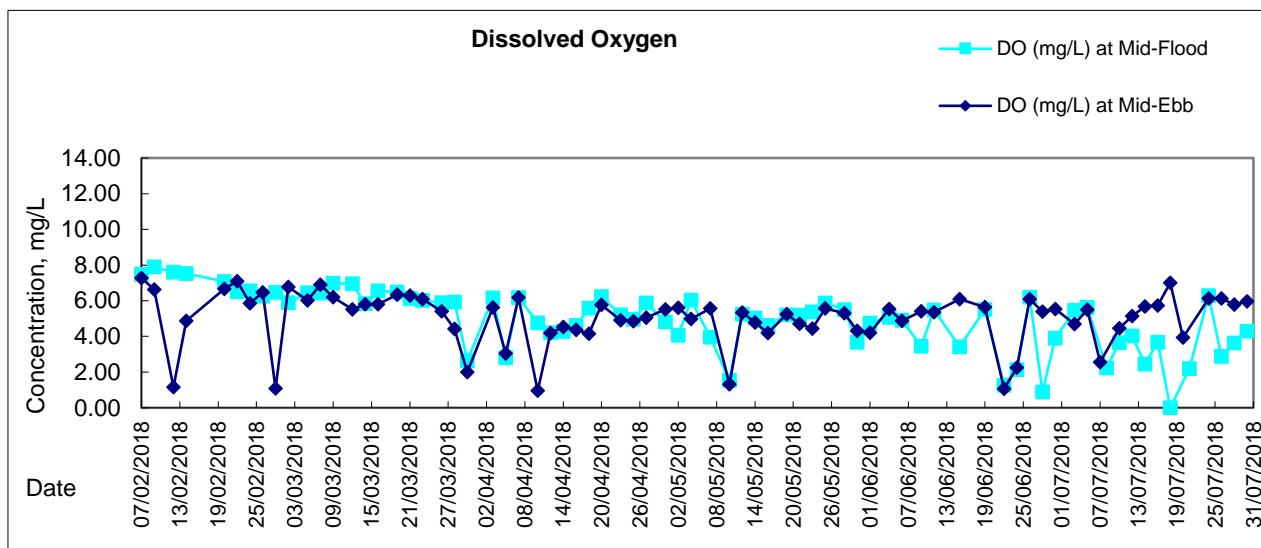
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids	
			m		°C		-		ppt		%		mg/L		NTU		mg/L	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
03/07/2018	15:30	Cloudy	Middle	4	28.30	28.30	28.30	8.01	8.01	8.01	26.75	26.75	26.75	69.9	69.9	70.0	4.69	4.69
	15:32		Middle	4	28.30	28.30		8.01	8.01		26.75	26.75		70.0	70.3		4.70	4.71
05/07/2018	14:30	Cloudy	Middle	4	28.10	28.10	28.20	8.12	8.12	8.12	26.67	26.67	26.67	81.6	81.5	81.7	5.48	5.48
	14:32		Middle	4	28.30	28.30		8.12	8.12		26.66	26.66		81.9	81.8		5.56	5.49
07/07/2018	19:02	Cloudy	Middle	3	32.10	32.10	32.10	7.80	7.79	7.79	25.39	25.39	25.39	40.3	41.4	41.5	2.49	2.55
	19:03		Middle	3	32.10	32.10		7.79	7.79		25.39	25.39		41.3	43.1		2.55	2.66
10/07/2018	09:50	Cloudy	Middle	4	27.70	27.70	27.70	8.28	8.28	8.28	28.06	28.06	28.07	66.6	66.4	66.1	4.49	4.46
	09:52		Middle	4	27.70	27.70		8.28	8.28		28.07	28.07		65.9	65.6		4.43	4.42
12/07/2018	11:30	Fine	Middle	4	28.30	28.30	28.40	8.09	8.09	8.09	28.62	28.62	28.62	77.8	77.6	77.6	5.14	5.13
	11:32		Middle	4	28.50	28.50		8.09	8.09		28.62	28.62		77.5	77.6		5.13	5.13
14/07/2018	11:30	Cloudy	Middle	4	26.80	26.80	26.85	8.13	8.13	8.13	30.44	30.44	30.44	84.4	84.2	84.4	5.68	5.66
	11:32		Middle	4	26.90	26.90		8.13	8.13		30.44	30.44		84.1	84.9		5.65	5.71
16/07/2018	14:05	Fine	Middle	4	27.60	27.60	27.65	8.11	8.11	8.12	29.94	29.94	29.94	85.9	96.1	88.4	5.72	5.74
	14:07		Middle	4	27.70	27.70		8.12	8.12		29.94	29.94		85.8	85.9		5.72	5.72
18/07/2018	15:30	Cloudy	Middle	4	27.40	27.40	27.40	7.76	7.76	7.85	30.80	30.80	30.81	93.6	93.7	93.9	6.24	9.24
	15:32		Middle	4	27.40	27.40		7.93	7.93		30.81	30.81		94.2	93.9		6.28	6.26
20/07/2018	18:07	Fine	Middle	4	28.40	28.40	28.45	8.03	8.03	8.04	31.00	31.00	31.00	60.5	60.2	60.3	3.95	3.93
	18:09		Middle	4	28.50	28.50		8.04	8.04		31.00	31.00		60.1	60.2		3.92	3.93
24/07/2018	10:05	Cloudy	Middle	4	29.00	29.00	29.10	7.95	7.95	7.96	30.12	30.12	30.12	95.0	94.2	94.2	6.17	6.12
	10:07		Middle	4	29.20	29.20		7.97	7.97		30.11	30.11		93.8	93.9		6.09	6.09
26/07/2018	10:25	Fine	Middle	4	29.70	29.70	29.75	7.94	7.94	7.96	29.33	29.33	29.33	95.6	94.9	94.9	6.17	6.13
	10:28		Middle	4	29.80	29.80		7.98	7.98		29.33	29.33		94.5	94.4		6.10	6.09
28/07/2018	11:40	Fine	Middle	4	29.90	29.90	29.85	8.00	8.00	8.00	27.98	27.98	28.08	90.7	90.6	89.3	5.90	5.89
	11:42		Middle	4	29.80	29.80		8.00	8.00		28.18	28.18		87.6	88.1		5.67	5.71
30/07/2018	11:25	Fine	Middle	4	30.10	30.10	30.15	8.02	8.02	8.03	29.37	29.37	29.37	95.2	94.1	93.2	6.11	6.03
	11:27		Middle	4	30.20	30.20		8.03	8.03		29.37	29.37		91.4	91.9		5.86	5.88

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







Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

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

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

Event and Action Plan for Noise Quality				
Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level is reached	<ol style="list-style-type: none">Notify IC(E) and ContractorCarry out investigationReport the results of the investigation to the IC(E) and ContractorDiscuss with the Contractor and formulate remedial measures	<ol style="list-style-type: none">Discuss amongst ER, ET and Contractor on the potential remedial actionsReview Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordinglySupervise the implementation of remedial measures	<ol style="list-style-type: none">Confirm receipt of notification of failure in writingNotify ContractorRequire Contractor to propose remedial measures for the analyzed noise problemEnsure remedial measures are properly implemented	<ol style="list-style-type: none">Submit noise mitigation proposal to IC(E)Implement noise mitigation proposals
Limit Level is reached	<ol style="list-style-type: none">Notify IC(E), ER, EPD and ContractorIdentify sourceRepeat measurement to confirm findingsCarry out analysis of Contractor's working procedures to determine possible mitigation to be implementedInform IC(E), ER and EPD the causes & actions taken for the exceedancesAssess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the resultsIf exceedance stops cease additional monitoring	<ol style="list-style-type: none">Discuss amongst ER, ET and Contractor on the potential remedial actionsReview Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordinglySupervise the implementation of remedial measures	<ol style="list-style-type: none">Confirm receipt of notification of failure in writingNotify ContractorRequire Contractor to propose remedial measures for the analyzed noise problemEnsure remedial measures are properly implementedIf 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">Take immediate action to avoid further exceedanceSubmit proposals for remedial actions to IC(E) within 3 working days of notificationImplement the agreed proposalsResubmit proposals if problem still not under controlStop 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 3 working 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)



Lam Geotechnics Limited

Contract No. HK/2015/01

Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

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



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



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



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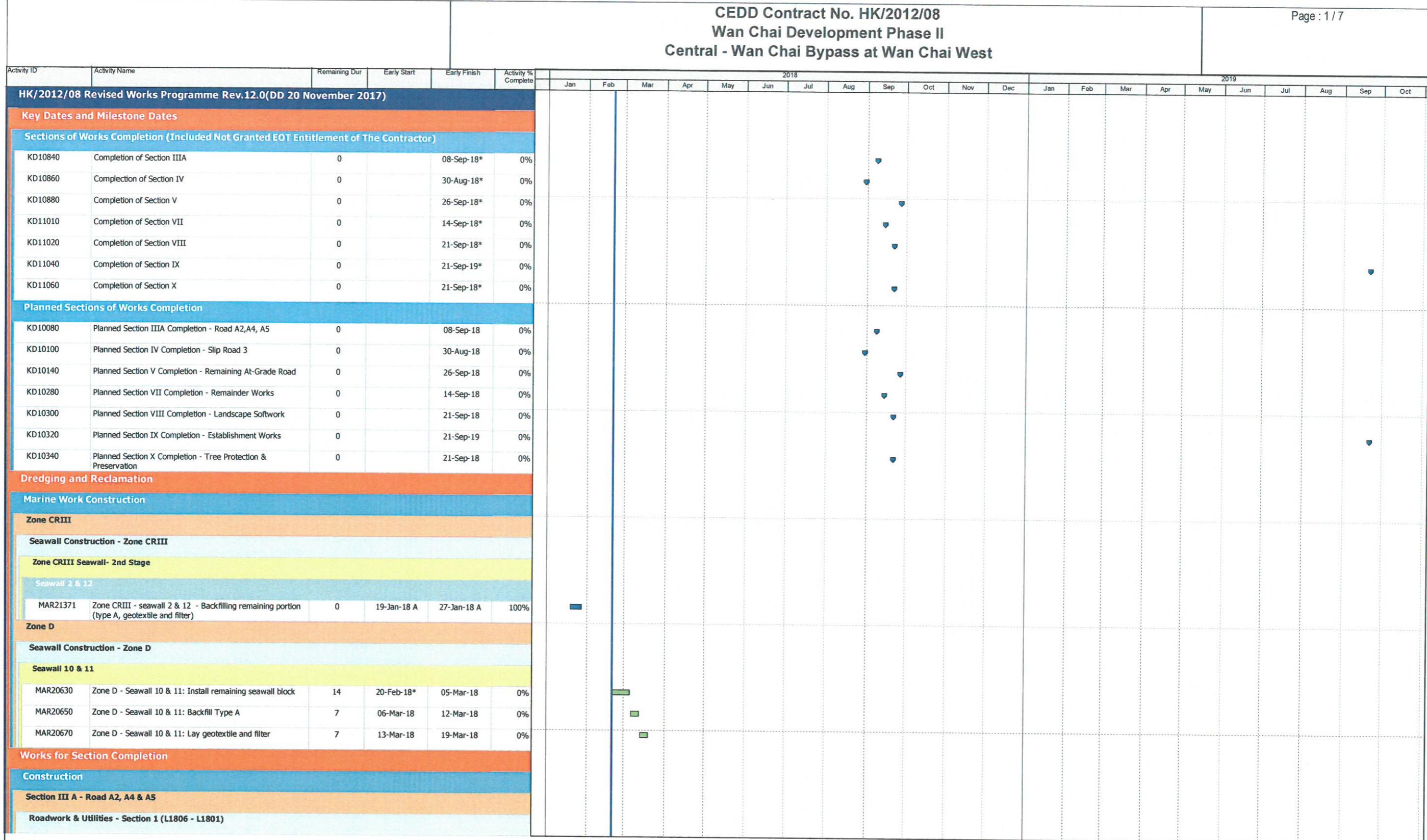
Wan Chai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 3)

Appendix 8.1

Construction Programme of Individual Contracts

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

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Data Date: 20-Feb-18	◆ Current Milestone ■ Actual Work ■ Critical Remaining Work ■ Remaining Work — Remaining Level of Effort	Updated Works Programme Rev.12 (Ref. to Rev.12 as of 20 February 2018)	Date	Revision	Checked	Approved
			20-Feb-18	12		

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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	2018												2019													
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct				
SIIIA10279c	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time): construct sewerage pipe	0	02-Jan-18 A	03-Feb-18 A	100%																										
SIIIA10293	Sec III A - section 1 carriageway - sewerage pipe from M/H F8B - F8A (night time)	6	05-Feb-18 A	26-Feb-18	0%																										
SIIIA10294	Sec III A - section 1 carriageway - sewerage pipe from M/H F8A - F8	8	17-Jan-18 A	28-Feb-18	27.27%																										
SIIIA10295	Sec III A - carriageway - works prior TTA stage 5: excavation and duct laying of TCSS and public lighting	7	18-Jan-18 A	27-Feb-18	0%																										
SIIIA10298	Sec III A - section 1 carriageway - works prior TTA stage 5: road kerb	5	28-Feb-18	05-Mar-18	0%																										
SIIIA10301	Sec III A - section 1 carriageway - works prior TTA stage 5: road formation	2	06-Mar-18	07-Mar-18	0%																										
SIIIA10302	Sec III A - section 1 carriageway - works prior TTA stage 5: laying asphalt	5	08-Mar-18	13-Mar-18	0%																										
SIIIA10303	Sec III A - section 1 carriageway - works prior TTA stage 5: road marking & preparation works	3	14-Mar-18	16-Mar-18	0%																										
SIIIA10310	Sec III A - section 1 carriageway - TTA stage 5: Implementation of TTA Stage 5	1	17-Mar-18	17-Mar-18	0%																										
SIIIA10310a	Sec III A - section 1 carriageway - TTA stage 5: remaining sewerage pipe for M/H F8A - M/H F8	12	19-Mar-18	04-Apr-18	0%																										
SIIIA10310b	Sec III A - section 1 carriageway - TTA stage 5: remaining sewerage pipe for M/H F8A - M/H F8B	18	06-Apr-18	26-Apr-18	0%																										
SIIIA10310c	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road- remove sheetpile at U-trough west	5	19-Mar-18	23-Mar-18	0%																										
SIIIA10310d	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -remove temp. road access bay 5 of SR1	21	24-Mar-18	21-Apr-18	0%																										
SIIIA10310e	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -construct upstand wall above Dwall	25	23-Apr-18	23-May-18	0%																										
SIIIA10310f	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - roadside barrier	14	24-May-18	08-Jun-18	0%																										
SIIIA10310g	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - road formation	7	09-Jun-18	16-Jun-18	0%																										
SIIIA10310h	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - laying asphalt with transition slab	14	19-Jun-18	05-Jul-18	0%																										
SIIIA10312	Sec III A - roadwork and utilities section 1 carriageway - Drainade works (L2202 - L2201)	15	19-Mar-18	09-Apr-18	0%																										
SIIIA10312a	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1805 - L1801)	15	10-Apr-18	26-Apr-18	0%																										
SIIIA10312b	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1805-1807)	12	27-Apr-18	11-May-18	0%																										
SIIIA10313	Sec III A - roadwork and utilities section 1 carriageway - gully pipe (L1807 - L1801)	14	07-May-18	23-May-18	0%																										
SIIIA10320	Sec III A - roadwork and utilities section 1 carriageway - fresh watermain	7	24-May-18	31-May-18	0%																										
SIIIA10340	Sec III A - roadwork and utilities section 1 carriageway - utilities: HEC (80m) along carriageway	14	01-Jun-18	16-Jun-18	0%																										
SIIIA10360	Sec III A - roadwork and utilities section 1 carriageway - road kerb & formation	14	19-Jun-18	05-Jul-18	0%																										
SIIIA10400	Sec III A - roadwork and utilities section 1 carriageway - black top	7	06-Jul-18	13-Jul-18	0%																										
SIIIA10420	Sec III A - Implementation of TTA Stage 7P (Closure of U-turn at Expo Drive)	1	14-Jul-18	14-Jul-18	0%																										
SIIIA10440	Sec III A - roadwork and utilities section 1 carriageway : breaking existing asphalt	10	16-Jul-18	26-Jul-18	0%																										
SIIIA10460	Sec III A - roadwork and utilities section 1 carriageway: road kerb and formation	14	27-Jul-18	11-Aug-18	0%																										
SIIIA10480	Sec III A - roadwork and utilities section 1 carriageway : black top	10	13-Aug-18	23-Aug-18	0%																										
SIIIA10500	Sec III A - roadwork and utilities section 1 carriageway : roadmarking and road furniture	14	24-Aug-18	08-Sep-18	0%																										
Roadwork & Utilities - Section 2 (L1810 - L1807)																															
SIIIA12590	Sec III A - roadwork and utilities section 2 carriageway - black top	0	20-Jan-18 A	27-Jan-18 A	100%																										
Roadwork & Utilities - Section 3 (L1808 - L1102)																															
SIIIA12770	Sec III A - roadwork and utilities section																														

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Contract No.HY/2010/08
Three Months Rolling Program

Activity Name	Start	Finish	2018		
			July	August	September
Junction Modification Works	1/6/2018	1/10/2018			