West Kowloon Cultural District Authority

West Kowloon Cultural District, and Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District

Supplementary Baseline Monitoring Report for Alternative Locations AM5A and NM5A

(Rev. 3)

(September 2020)

Verified by: Claudine Lee

Position: Independent Environmental Checker

Date: 15-Sep-2020

West Kowloon Cultural District Authority

Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District

Supplementary Baseline Monitoring Report for Alternative Locations AM5A and NM5A (Rev. 3)

(September 2020)

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Client:

Bachy Soletanche – Fujita Corporation Joint Venture (BFJV)

Project:

West Kowloon Cultural District (WKCD)

Supplementary Baseline Monitoring Report for AM5A and NM5A Rev.3

Approved by

Calvin Lui **14th September 2020**

Contractor's Environmental Team Leader

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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EXECUTIVE SUMMARY

This Baseline Monitoring Report is a supplementary to the previous finalized Baseline Monitoring Report for the West Kowloon Cultural District project (the "WKCD Project"). Bachy Soletanche – Fujita Corporation Joint Venture has appointed Apex Testing & Certification Limited to undertake the Baseline Monitoring from 08 August 2020 to 23 August 2020 at AM5 and NM5 (where no baseline monitoring was previously carried out) due to the commencement of the Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District (the "Zone 2A Project"). The additional consecutive two days monitoring (22 and 23 August 2020) were necessary to replace the extreme weather days (18 and 19 August 2020) due to the Typhoon occurrence; in order to obtain valid 14 days for baseline monitoring in compliance with the EM&A Manual. The monitoring data obtained on 18 and 19 August have been provided in this report for reference only. These data have not been taken into account for the minimum, maximum, and average estimations.

The baseline air quality (1-hour Total Suspended Particulate ("TSP") and 24-hour TSP levels) monitoring was conducted at AM5A (which is an alternative monitoring location for AM5). The baseline 1-hour TSP (between 0700-1900 hours) and 24-hour TSP average levels measured at AM5A were 39µg/m³ and 17.1µg/m³ respectively. Action Level of the corresponding measurements for 1-hour TSP at 0700 – 1900 was set at 275µg/m^3 and the limit level was 500 µg/m^3. Action Level of the corresponding measurements for 24-hour TSP was set at 141µg/m^3 with the limit level of 260 µg/m^3.

Baseline noise monitoring was also conducted at the monitoring station NM5A (which is an alternative monitoring location for NM5). L_{10} (30 minutes), L_{90} (30 minutes) and Leq (30 minutes) were measured continuously for 12 hours between 0700 and 1900 hours at NM5A. The baseline L_{10} (30 minutes), L_{90} (30 minutes) and Leq (30 minutes) noise average levels measured at NM5A were 65.3 dB(A), 59.6 dB(A) and 63.0 dB(A) (3dB(A) has been added due to the free field measurement condition) respectively. Action level for construction noise is triggered when a documented complaint is received. Limit Level for daytime period (over 07:00 -19:00) at NM5A was set at 75 dB(A).

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1. INTRODUCTION

1.1. Project Background Information

The West Kowloon Cultural District Authority ("WKCDA"), empowered by the WKCDA Ordinance (Cap. 601), was set up by the Government with the full support of the Legislative Council (LegCo) in October 2008 to take forward the West Kowloon Cultural District ("WKCD") project.

The WKCD Project is a large cultural project which will deliver new performance and visual arts venues, museums, open spaces, education resources, commercial and retail opportunities. With funding from the Government of the Hong Kong SAR, the WKCD is being developed for the people of Hong Kong and visitors. Its vision is to create a vibrant cultural quarter for Hong Kong where the local arts scene can interact. The WKCD Project will also include a variety of arts and cultural facilities that will produce and host world-class exhibitions, performances, arts and cultural events. The WKCD positions itself as a leading cultural brand of the future.

The WKCD Project is a designated project (DP) under schedule 2 and 3, and an Environmental Permit EP-453/2013/B was issued with respect to the "Under pass Road and Austin Road Flyover serving the WKCD". The purpose of the Zone 2A Project is to reserve for Integrated Basement (IB) and Underground Road (UR) in Zones 2A at West Kowloon Cultural District (WKCD). The Zone 2A Project involves the foundation and excavation works, excavation and lateral support (ELS) works, road works, drainage diversion works, temporary car parking, environmental monitoring and mitigation measures for the proposed works.

WKCDA has appointed Bachy Soletanche – Fujita Corporation Joint Venture (BFJV) as the Contractor of Zone 2A Project and Apex Testing & Certification Limited (Apex) is commissioned by BFJV to undertake the Baseline Monitoring.

1.2. Purpose of the Baseline Report

The purpose of the Report is to set out baseline levels for the air quality and noise in accordance with the EM&A Manual for WKCD Project and the Environmental Permit (EP-453/2013/B). The baseline monitoring report is prepared in accordance with the Condition 3.3 of the Environmental Permit (EP-453/2013/B). These baseline levels for the air quality and noise will be used as the basis for compliance check during the impact monitoring at construction stage of the WKCD Project.

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Pursuant to the EM&A Manual, AM1 to AM5 are the five designated air quality monitoring locations, and NM1 to NM5 are the five designated noise monitoring locations. The baseline monitoring has been previously carried out at AM1 to AM4 (for air), and at NM1 to NM4 (for noise) in 2014 / 2015 as described below:

Designated Monitoring Stations in EM&A Manual	Baseline Monitoring Period
AM1 – International Commerce Centre	22 July 2014 to 06 August 2014
AM2 - The Harbourside Tower 1	29 July 2014 to 15 August 2014
AM3 - The Victoria Towers - Tower 1	22 July 2014 to 04 August 2014
AM4 - Canton Road Government Primary School	22 July 2014 to 05 August 2014
NM1 – The Harbourside Tower 1	Referenced baseline noise level from the project "Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Link (XRL)"
NM2 – The Arch – Sun Tower	
NM3 - The Victoria Towers - Tower 1	22 July 2014 to 14 August 2014, 22 January and 25 January 2015
NM4 - Canton Road Government Primary School	22 July 2014 to 04 August 2014

The baseline monitoring report was previously submitted and approved by EPD.

(Retrieved from http://ema.westkowloon.hk/baseline/2015.pdf)

Baseline monitoring at AM5 (AM5A) and NM5 (NM5A) has been conducted from 08 August 2020 to 23 August 2020 due to the development of WKCD Zone 2A. In fact, since the topside developments at West Kowloon Terminus Site (AM5) and the development next to Austin Station (NM5) were still under construction during the previous baseline monitoring in 2014, the baseline monitoring has been not yet conducted at AM5 and NM5. According to the EM&A Manual, Section 2.1.5 (Table 2.1) and Section 3.1.3 (Table 3.1), air quality and noise monitoring at AM5 (AM5A) and NM5 (NM5A) should start after completion of development, subject to the construction programme of XRL and the development.

This report presents the equipment, period, methodology, results and observations for the air quality and noise monitoring during the baseline monitoring at the designated monitoring locations AM5 and NM5 (which are replaced by the alternative locations AM5A and NM5A respectively).

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1.3. Structure of the Baseline Report

This Report comprises the following sections:

Section 1: Introduction, project background information, purpose and structure of the report

Section 2: Air Quality, which describes the baseline air quality monitoring

Section 3: Noise, which describes the baseline noise monitoring

Section 4: Revisions for inclusion in the EM&A Manual

Section 5: Conclusions

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2. AIR QUALITY MONITORING

2.1. Monitoring Requirements

In accordance with the EM&A Manual, baseline air quality monitoring is undertaken to establish the baseline air quality levels at the designated monitoring station. Baseline monitoring has been carried out at the alternative locations for the originally designated monitoring stations for 14 consecutive days prior to the commencement of the construction works to obtain daily 24-hour TSP samples. 1-hour sampling has been also done at least 3 times per day while the highest dust impact was expected. Generally, the highest dust impact is expected to be at day-time between 0700-1900 since most of the active construction works are carried out during this period.

There was no construction or dust generation activities in the vicinity (within 500m) of the Project site boundary during the baseline monitoring.

2.2. Monitoring Methodology

Air quality was monitored in terms of Total Suspended Solid (TSP). The TSP levels have been measured by following the standard method as set out in High Volume Method for Total Suspended Particulates, Part 50 Chapter 1 Appendix B, Title 40 of the Code of Federal Regulations of the USEPA (HVS method).

<u>24-hour TSP Levels Monitoring Equipment Installation and Preparation</u>

Below key points were followed when positioning the HVS:

a. a horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
b. no two samplers shall be placed less than 2 meters apart;
c. the distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
d. a minimum of 2 meters of separation from walls, parapets and penthouses is required for rooftop samplers;
e. a minimum of 2 meters separation from any supporting structure, measured horizontally is required;
f. no furnace or incinerator flue is nearby;
g. airflow around the sampler is unrestricted;

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h. the sampler is more than 20 meters from the dripline;

i. any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;

j. permission must be obtained to set up the samplers and to obtain access to the monitoring station; and

k. a secured supply of electricity is needed to operate the samplers.

High volume sampler (HVS) in compliance with the following specifications was used for carrying out the 24-hour TSP monitoring:

a. 0.6-1.7 m3 /min (20-60 SCFM) adjustable flow range;

b. equipped with a timing/control device with +/- 5 minutes accuracy for 24 hours operation;

c. installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;

d. capable of providing a minimum exposed area of 406 cm2 (63 in^2);

e. flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;

f. equipped with a shelter to protect the filter and sampler;

g. incorporated with an electronic mass flow rate controller or other equivalent devices;

h. equipped with a flow recorder for continuous monitoring;

i. provided with a peaked roof inlet;

j. incorporated with a manometer;

k. able to hold and seal the filter paper to the sampler housing at horizontal position;

l. easy to change the filter; and

m. capable of operating continuously for 24-hour period.

The HVS was equipped with an electronic mass flow controller and calibrated against a traceable standard at regular intervals. All the equipment, calibration kit, filter papers, etc. was clearly labelled.

Initial calibration of dust monitoring equipment was conducted upon installation and thereafter at bi-monthly intervals. The transfer standard is traceable to the internationally recognized primary standard and calibrated annually. All the data was converted into standard temperature and pressure condition.

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The flow-rate of the sampler before and after the sampling exercise with the filter in position was verified to be constant.

The instrument was calibrated regularly, and the 1-hour sampling was determined periodically by HVS to check the validity and accuracy of the results measured by direct reading method.

Filters Preparation

Filter paper of size 8"x10" was labelled before sampling. It was a clean filter paper with no pin holes, and conditioned in a humidity controlled chamber for over 24-hour and be pre-weighed before use for the sampling.

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

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

1-hour TSP Levels Monitoring (Direct Reading Method) Equipment and Procedures

The measuring procedures of 1-hour TSP by a portable dust meter were carried out as follows:

a. Pull the air sampling inlet cover up;
b. Change Mode 0 to BG by pushing Timer set switch;
c. Push Start/Stop switch once.
d. Confirm reading is 0 to set zero.
e. Turn knob to SENSI.ADJ and press in.
f. Push Start/Stop switch once.
g. Push timer set switch to set measuring time.
h. Remove the cap and start measurement.

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2.3. Name of Laboratory and Type of Equipment Used and Calibration and Maintenance

The dust samples handling and analysis was carried out in the laboratory by AQuality Testconsult Limited. The laboratory is accredited by other international accreditation scheme. AQuality Testconsult Limited is accredited under the ILAC MRA scheme and accredited by IAS, which is MRA Partners for HOKLAS. HKAS MRA partners recognize HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

The equipment used for the baseline air quality monitoring programme is listed in **Table 2.3-1** below. The equipment is calibrated annually and properly maintained to ensure proper function. Copies of the calibration certificates of the equipment are enclosed in **Appendix 4**.

Table 2.3-1 Equipment for Baseline Air Quality Monitoring

Equipment	Manufacturer/Model	Serial No.	Due Date
High Volume Sampler	Tisch Environmental/ TE-5170	4344	2021-07-19
High Volume Sampler Calibrator	Tisch Environmental/ TE-5025A	3543	2020-11-08
Direct Reading Dust Meter	Met One Instruments/ Aerocet-531S	P21676	2020-11-16

2.4. Monitoring Parameters, Date, Frequency and Duration

1-hour and 24-hour TSP levels was measured to indicate the impacts of construction dust on air quality. 1-hour TSP levels was measured by direct reading methods which are capable of producing comparable results as that by the HVS method, to indicate short event impacts.

The baseline air quality monitoring for AM5A (alternative location of the original AM5) was conducted continuously from 08 August 2020 to 23 August 2020 (the monitoring schedule is provided in **Appendix 3**). The additional consecutive two days monitoring (22 and 23 August 2020) were necessary to replace the extreme weather days (18 and 19 August 2020) due to the Typhoon occurrence; in order to obtain valid 14 days baseline monitoring in compliance with the EM&A Manual.

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14 days monitoring (10 consecutive days from 8 August to 17 August, and 4 consecutive days from 20 to 23 August) were therefore taken into account at the designated monitoring station to obtain daily 24-hour TSP samples. 1-hour sampling has been also done at least 3 times per day while the highest dust impact was expected.

The monitoring data for air quality monitoring of 1-hour and 24-hour TSP at AM5A on 18 August and 19 August 2020 (extreme weather days) were recorded and provided for reference only, and the regular monitoring period was extended to 23 August 2020. The relevant Tropical Cyclone Warning Signals is provided in **Appendix 9**. **Table 2.4-1** summarizes the parameters, duration and frequencies of air quality monitoring.

Table 2.4-1 Parameters, Duration and Frequencies of Air Quality Monitoring

Parameter	Duration	Frequency
1-hour TSP	14 consecutive days	1-hour x 3 times per day
24-hour TSP	14 consecutive days	24 hours per day

2.5. Designated and Proposed Alternative Air Monitoring Location

According to the EM&A Manual, AM5 is the designated impact monitoring station (See **Appendix 1**), which has been selected as the representative air sensitive receiver (Topside Developments at West Kowloon Terminus Station) located nearby the Project site. However, MTR declined the access to the designated AM5 location (Refer to rejection letter attached in **Appendix 2**).

Alternative location is therefore proposed in compliance with the requirements of the EM&A Manual. After reviewing all locations in the vicinity of the construction activities, AM5A has been selected as an alternative location for the original AM5 based on the following reasons:

1. AM5A is close to the original sensitive receptor AM5; it is located in front of AM5, and in the same direction to the centre of the WKCD Zone 2A construction site as AM5 (as showed in Figure 2.1 in **Appendix 1**); thus it will likely have the direct impact of construction dusty activities comparable to that at AM5 (please refer to the distances showed in **Appendix 1** and summarized in revised **Table 2.5-2**);

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2. Electricity supply is available at AM5A for the air quality monitoring; and

3. Moreover, AM5A is set nearby the hoarding of WKCD Zone 2A site, closer to the major construction dust emission sources (in comparison with the original AM5); and has a more direct line sight to the major dusty site activities with higher exposure (Figure 2.1 in **Appendix 1**).

Thereby, AM5A will not only likely have an air quality impact comparable to that at the original AM5 during the construction activities, but also accurately represent AM5 in case of highest air quality impact. The designated air quality monitoring station listed in EM&A Manual and alternative air quality monitoring location are summarized in **Table 2.5-1** below.

Table 2.5-1 Air Quality Monitoring Location

Designated Monitoring Station in EM&A Manual	Proposed Alternative Monitoring Station in Accordance with EM&A Manual	Alternative Monitoring Station
AM5 - Topside Developments at West Kowloon Terminus Site	Yes	AM5A - North of West Kowloon Station's station box (G/F)

In short, the monitoring results at AM5A (an alternative monitoring location proposed by Environmental Team (ET)) can properly monitor the air impact at the original AM5, as previously approved by the Independent Environmental Checker (IEC), WKCDA and the Environmental Protection Department (EPD).

For the above reasons, AM5A is selected to be an alternative monitoring location (baseline and impact monitoring location) for AM5. The description of the alternative station (in terms of distance and direction) is given in **Appendix 1** and summarized in **Table 2.5-2** below.

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Table 2.5-2 Comparison Between Designated and Alternative Air Quality Monitoring Locations

Station ID	Description	Distance from Centre of Site (m)	Distance from Site Boundary (m)	Direction from Site Boundary	Direct Sight to Project Site
AM5	Topside Developments at West Kowloon Terminus Site	181	80	North	Yes
AM5A	North of West Kowloon Station's station box (G/F)	97	Around 2	North	Yes

Note: Distance of the monitoring station from the Zone 2A Project site, please refer to **Appendix 1**

2.6. Baseline Monitoring Observation

The on-site observation in vicinity of the monitoring stations was recorded. A summary of the weather and observation for baseline monitoring works is given in **Table 2.6-1** and **Table 2.6-2** below:

Table 2.6-1 Weather Condition and Observations During 1-hour TSP Baseline Monitoring Works

Monitoring Stations	Date																Observations During Baseline Monitoring Works
	August 2020																
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
AM5A	F	F	F	C	C[3]	C	C	F	C	C	S[1]	S[1]	C	F	F	F	Road traffic dust at Austin Road [2]

Remarks: F: Fine; C: Cloudy; R: Rainy; S: Storm; ___: Sunday

[1]: Typhoon Higos hoisted Signal No.1 at 03:40 on 18 August 2020 and moved away from Hong Kong at 13:20 on 19 August 2020. Typhoon Signals No.8 and No.9 were hoisted during the period. The relevant Tropical Cyclone Warning Signals are provided in **Appendix 9**.

[2]: Road traffic dust at Austin Road was observed every day during the monitoring period.

[3] During the 1-hour TSP monitoring on 12 August 2020, the weather was cloudy at 06:00-20:00.

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Table 2.6-2 Weather Condition and Observations During 24-hour TSP Baseline Monitoring Works

Monitoring Stations	Date																Observations During Baseline Monitoring Works
	August 2020																
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
AM5A	F	F	F	C	R[3]	C	C	F	F	C	S[1]	S[1]	F	F	F	F	Road traffic dust at Austin Road [2]

Remarks: F: Fine; C: Cloudy; R: Rainy; S: Storm; ___: Sunday

[1]: Typhoon Higos hoisted Signal No.1 at 03:40 on 18 August 2020 and moved away from Hong Kong at 13:20 on 19 August 2020. Typhoon Signals No.8 and No.9 were hoisted during the period. The relevant Tropical Cyclone Warning Signals are provided in **Appendix 9**.

[2]: Road traffic dust at Austin Road was observed every day during the monitoring period.

[3] During the 24-hour TSP monitoring on 12 August 2020, the weather was rainy at 02:00-06:00, 20:00-00:00.

General meteorological conditions record (wind speed, wind direction and precipitation) are referenced from the Hong Kong Observatory King's Park meteorological station throughout the baseline monitoring period. The relevant data are provided in **Appendix 5** and **Appendix 9**.

2.7. Quality Assurance (QA) / Quality Control (QC) Results and Detection Limits

AQuality Testconsult Limited has a comprehensive quality assurance and quality control programmes. The laboratory is accredited by other international accreditation scheme. AQuality Testconsult Limited is accredited under the ILAC MRA scheme and accredited by IAS, which is MRA Partners for HOKLAS. HKAS MRA partners recognize HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes. The related supporting documents for AQuality Testconsult Limited are provided in **Appendix 8**.

2.8. Results

Baseline air quality monitoring was conducted at AM5A from 08 August 2020 to 23 August 2020 inclusive. The monitoring data obtained on 18 and 19 August 2020 have not been taken into account for the range and average estimation. The baseline monitoring results are summarized in **Table 2.8-1** . All monitoring data of 1-hour and 24-hour TSP are presented in **Appendix 5**.

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Table 2.8-1 Summary of Baseline 1-hour and 24-hour TSP Monitoring Results at AM5A

Monitoring Parameter	TSP concentration, µg/m³ (Range)	Average µg/m³
1-hour TSP	29 - 50	39
24-hour TSP	9.9 - 23	17.1

2.9. Action and Limit Levels

The Action and Limit Levels (AL levels) have been set in accordance with the derivation criteria specified in the EM&A Manual. This is shown in **Table 2.9-1** .

Table 2.9-1 Action and Limit Levels for Air Quality

Parameter	Action Level	Limit Level
1-hour TSP Level in µg/m³	For baseline level ≤ 384 µg/m³, Action level = (130% of baseline level + Limit level)/2 For baseline level > 384 µg/m³, Action level = Limit Level	500
24-hour TSP Level in µg/m³	For baseline level ≤ 200 µg/m³, Action level = (130% of baseline level + Limit level)/2 For baseline level > 200 µg/m³, Action level = Limit Level	260

Following above guidelines, the Action and Limit Levels for air quality impact monitoring have been set, as presented in **Table 2.9-2**. The monitoring data obtained on 18 and 19 August have not been taken into account for the Action Level calculation.

Table 2.9-2 Action and Limit Levels for 1-hour TSP and 24-hour TSP at AM5A

Monitoring Parameter	Action Level, µg/m³	Limit Level, µg/m³
1-hour TSP	275	500
24-hour TSP	141	260

The Event and Action Plan for Air Quality is given in **Table 2.9-3**.

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Table 2.9-3 Typical Event and Action Plan for Air Quality

Event	ET Leader	IEC	WKCDA	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and WKCDA; 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.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and WKCDA; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCDA; 8. 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 ET on the effectiveness of the proposed remedial measures; 5. Monitor 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 to WKCDA within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				

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1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCDA, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA 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 WKCDA on the effectiveness of the proposed remedial measures; 5. Monitor 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 proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Notify IEC, WKCDA, Contractor and EPD; 2. Identify source; 3. Repeat measurement 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 IEC and WKCDA to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, 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 IEC within three 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 WKCDA until the exceedance is abated.

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3. NOISE MONITORING

3.1. Monitoring Requirements

In accordance with the EM&A Manual, baseline noise monitoring is undertaken to establish the baseline noise levels at the designated monitoring station mentioned in the EM&A Manual. The baseline monitoring is carried out in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) should be used as the monitoring parameter between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) should be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 should also be obtained for reference.

3.2. Monitoring Methodology

Field Monitoring

The monitoring procedures are as follows:

a. The Sound Level Meter was fixed on a tripod at a height of ~1.2 m above the ground.

b. The monitoring location should be positioned 1m away from the building façade and +3dB(A) correction should be made to the free field measurement.

c. Measurements with façade reflection were made at monitoring locations if required.

d. Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

- Frequency weighting: A
- Time weighting: Fast
- Time measurement: daily between 0700-1900 hours;

e. The Sound Level Meter was calibrated by using the Acoustic Calibrator with a sound level of 94 dB at 1000 Hz before and after each noise measurement. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repairing of the equipment.

f. The wind speed was checked with a portable wind meter.

g. Site conditions and noise sources were recorded on a standard record sheet.

h. Noise measurement would be paused for any abnormal influencing noise.

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i. Noise monitoring would not be performed for any presence of fog, rain, wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

3.3. Type of Equipment Used, Calibration and Maintenance

In reference to the Technical Memorandum (TM) under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications should be used for carrying out the noise monitoring.

Immediately prior to, and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Noise measurements are only accepted to be valid if the calibration levels from before and after the measurement agree to within 1.0dB.

Measurements shall be recorded to the nearest 0.1dB. The noise monitors are programmed to measure A-weighted equivalent continuous sound pressure level at 30-minute intervals on normal weekdays and at 5-minute interval during other time periods. The noise measurement shall be conducted continuously throughout the measurement period between 0700 and 1900 hours during daytime for 14 consecutive days.

All the equipment and associated instrumentation should be clearly labelled. The equipment used for the baseline monitoring is listed in **Table 3.3-1** below. The equipment shall be calibrated annually and properly maintained to ensure proper function. Copies of the calibration certificates of the noise equipment are enclosed in **Appendix 4**.

Table 3.3-1 Equipment for Baseline Noise Monitoring

Equipment	Manufacturer/Model	Serial No.	Due Date
Integrated Sound Level Meter	AWA5661	301134	2020-10-13
Calibrator	Landtek ND9	507258	2020-10-14

3.4. Monitoring Parameters, Date, Frequency and Duration

The noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time

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period between 0700-1900 hours. For all other time periods, Leq (5 minutes) shall be employed for comparison with the NCO criteria.

As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference. The baseline noise monitoring for NM5A (alternative location for the original NM5) was conducted from 08 August 2020 to 23 August 2020 (the monitoring schedule is provided in **Appendix 3**). The additional consecutive two days monitoring (22 and 23 August 2020) were necessary to replace the extreme weather days (18 and 19 August 2020) due to the Typhoon occurrence; in order to obtain valid 14 days baseline monitoring in compliance with the EM&A Manual. During baseline monitoring, Leq (30 minutes) measurements have been carried out continuously for 12 hours between 0700-1900 hours for 14 days (10 consecutive days from 8 August to 17 August, and 4 consecutive days from 20 to 23 August).

The noise monitoring data at NM5A on 18 August and 19 August 2020 (extreme weather days) were recorded and provided for reference only, and the regular monitoring period was extended to 23 August 2020. The relevant Tropical Cyclone Warning Signals are provided in **Appendix 9**. **Table 3.4-1** presents the noise monitoring parameters and frequencies.

Table 3.4-1 Parameters and Frequencies of Noise Monitoring

Parameter	Frequency and Period
Leq (30 minutes) (L_{10} and L_{90} are also record as supplementary information)	Continuously throughout the measurement period for 14 consecutive days Measurement Period: Daytime: 0700-1900 hours on normal weekdays
Leq (5 minutes) (L_{10} and L_{90} are also record as supplementary information)	Continuously throughout the measurement period for 14 consecutive days Measurement Period: General Holidays and Sundays: 0700-1900 hours

3.5. Designated and Alternative Noise Monitoring Location

According to the EM&A Manual, NM5 is the designated impact monitoring station (See **Appendix 1**), which was selected as the representative noise sensitive receiver (Development next to Austin Station) located nearby the Project site. However, Grand Austin property

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management office has declined the access to the premises (Refer to rejection letter attached in **Appendix 2**).

Alternative location is therefore proposed in compliance with the requirements of the EM&A Manual requirement. After reviewing all locations in the vicinity of the construction activities, NM5A has been selected as an alternative location for the original NM5 based on the following reasons:

1. NM5A is close to the original sensitive receptor NM5; it is located in front of NM5 and in the same direction to the centre of WKCD Zone 2A site as NM5 (as showed in Figure 3.1 in **Appendix 1**), it will likely have the direct impact of construction noise comparable to that at NM5 (please see the distances showed in **Appendix 1** and summarized in **Table 3.5-2**).

2. NM5A is located outside of West Kowloon Station with no disturbance to the Station's occupants during noise monitoring activities.

3. Moreover, NM5A is set closer to the WKCD Zone 2A site boundary (in comparison with the original NM5); thus closer to the major construction noise sources (major site activities), and has a more direct line sight to the major site activities with higher exposure to construction noise (see Figure 3.1 in **Appendix 1**). Thereby, NM5A would not only have a noise impact comparable to that at the original NM5 during the construction activities, but also accurately represent NM5 during the highest noise impact.

The designated noise monitoring station listed in EM&A Manual and alternative noise monitoring location are summarized in **Table 3.5-1** below.

Table 3.5-1 Noise Monitoring Location

Designated Monitoring Stations in EM&A Manual	Proposed Alternative Monitoring Station in Accordance with EM&A Manual	Alternative Monitoring Station
NM5 - Development next to Austin Station	Yes	NM5A - Pedestrian road (G/F) outside West Kowloon Station

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In short, the monitoring results at NM5A (an alternative monitoring location proposed by Environmental Team (ET)) can properly monitor the noise impact at the original NM5 as previously approved by the IEC, WKCDA and EPD.

For the above reasons, NM5A is selected to be an alternative monitoring location (both baseline and impact noise monitoring) for NM5. The description of the station is given in **Appendix 1** and summarized in **Table 3.5-2** and **Table 3.5-3** below.

Table 3.5-2 Comparison Between Designated and Alternative Noise Monitoring Locations

Station ID	Description	Distance from Centre of Site (m)	Distance from Site Boundary (m)	Direction from Site Boundary	Direct Sight to Project Site
NM5	Development next to Austin Station	279	126	North	Yes
NM5A	Pedestrian road (G/F) outside West Kowloon Station	157	69	North	Yes

Note: Distance of the monitoring station from the Zone 2A Project site, please refer to Appendix 1

Table 3.5-3 Type of Measurement of Noise Monitoring

Monitoring Station	Measurement Type
NM5A	Free-field measurement

3.6. Baseline Monitoring Observation

The on-site observation in vicinity of the monitoring stations was recorded. A summary of the weather and observation for baseline monitoring works is given in **Table 3.6-1** below:

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Table 3.6-1 Weather Condition and Observation During Baseline Monitoring Works

Monitoring Stations	Date																Observations During Baseline Monitoring Works
	August 2020																
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
AM5A	F	F	F	C	C[3]	C	C	F	F	C	S[1]	S[1]	F	F	F	F	Road traffic noise at Austin Road [2]

Remarks: F: Fine; C: Cloudy; R: Rainy; S: Storm; ___: Sunday

[1]: Typhoon Higos hoisted Signal No.1 at 03:40 on 18 August 2020 and moved away from Hong Kong at 13:20 on 19 August 2020. Typhoon Signals No.8 and No.9 were hoisted during the period. The relevant Tropical Cyclone Warning Signals is provided in **Appendix 9**.

[2]: Road traffic noise at Austin Road was observed every day during the monitoring period.

[3] During the noise monitoring on 12 August 2020, the weather was cloudy over 06:00-20:00.

General meteorological conditions record (wind speed, wind direction and precipitation) are referenced from the Hong Kong Observatory King's Park meteorological station throughout the baseline monitoring period. The relevant data are provided in **Appendix 5** and **Appendix 9**.

3.7. Quality Assurance (QA) / Quality Control (QC) Results and Detection Limits

AQuality Testconsult Limited has a comprehensive quality assurance and quality control programmes. The laboratory is accredited by other international accreditation scheme. AQuality Testconsult Limited is accredited under the ILAC MRA scheme and accredited by IAS, which is MRA Partners for HOKLAS. HKAS MRA partners recognize HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes. The related supporting documents for AQuality Testconsult Limited are provided in **Appendix 8**.

The sound level meter and calibrator were calibrated annually by the manufacturer or a laboratory is accredited by other international accreditation scheme. The sound level meter is calibrated by Centre Testing International Group Co., Ltd. and the calibrator is calibrated by Shenzhen Academy of Metrology and Quality Inspection. The two laboratories are under the ILAC MRA scheme and accredited by CNAS, which is MRA Partners for HOKLAS. HKAS MRA partners will recognize HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes. Current calibration certificates are provided in **Appendix 8**.

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3.8. Results

Baseline noise monitoring was conducted at NM5A from 08 August 2020 to 23 August 2020 inclusive. The monitoring data obtained on 18 and 19 August have not been taken into account for the range, minimum, maximum and average levels estimation.

The monitoring data are summarized in **Table 3.8-1**. Graphical presentations of the data are provided in **Appendix 6**.

Table 3.8-1 Summary of Daytime (0700-1900) Noise Monitoring Results at NM5A

	Range of Noise Level, dB(A)								
Daytime 0700-1900 hours on normal weekdays	Leq (30min)			L_{10} (30min)			L_{90} (30min)		
	Average	Max	Min	Average	Max	Min	Average	Max	Min
	60.0	68.5	53.1	62.3	73.1	55.4	56.6	62.3	49.3
	Leq (30min) +3 dB(A)			L_{10} (30min) +3 dB(A)			L_{90} (30min) +3 dB(A)		
	Average	Max	Min	Average	Max	Min	Average	Max	Min
	63.0	71.5	56.1	65.3	76.1	58.4	59.6	65.3	52.3

Note: A +3 dB(A) façade correction was added to the predicted noise levels to account for the façade effect at NM5A

3.9. Action and Limit Levels

The Action and Limit Levels were established in accordance with the EM&A Manual. The baseline noise level shall be referenced during the compliance check in the impact noise monitoring period. **Table 3.9-1** presents the Action and Limit Levels for construction noise**.**

Table 3.9-1 Action and Limit Levels for Noise

Time Period	Action	Limit
0700-1900 hours on normal weekdays	When a valid documented complaint is received.	75* dB(A)

Note: *70 dB(A) for schools and 65 dB(A) during school examination periods.

If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

The Event and Action Plan for Construction Noise is given in **Table 3.9-2**.

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Table 3.9-2 Event and Action Plan for Construction Noise

Event	ET Leader	IEC	WKCDA	Action Contractor
Action Level	1. Notify WKCDA, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCDA and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCDA accordingly; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures.	1. Submit noise mitigation proposals to IEC and WKCDA; 2. Implement noise mitigation proposals.
Limit Level	1. Inform IEC, WKCDA, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCDA on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.

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4. REVISIONS FOR INCLUSION IN THE EM&A MANUAL

The baseline environmental monitoring was conducted according to the EM&A Manual for air quality and noise.

According to EM&A Manual Section 2.1.5 and Section 3.1.3, the monitoring locations of air quality monitoring and noise monitoring are defined. However, due to premises access contingencies, AM5 and NM5 are relocated to alternative locations as shown in **Table 2.5-1** and **Table 3.5-1**.

The monitoring methodology and parameters monitored are all in line with the EM&A Manual.

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5. COMMENTS AND CONCLUSION

The baseline environmental monitoring was conducted from 08 August 2020 to 23 August 2020. The baseline monitoring results were used to determine the appropriate Action and Limit Levels with the Limit Levels set against statutory or otherwise agreed limit.

The baseline air quality and noise monitoring was carried out in accordance with the EM&A Manual, in respect of the methodology, equipment, location and monitoring parameters.

Baseline air quality monitoring station AM5 and noise monitoring station NM5 could not be accessed due to rejections from MTR and Grand Austin property management offices. Alternative locations are therefore proposed in compliance with the requirements of the EM&A Manual. After reviewing all locations in the vicinity of the construction activities, AM5A has been proposed as an alternative location for the original AM5 and NM5A has been proposed as an alternative location for the original NM5 by ET and previously approved by IEC, WKCDA and EPD.

The baseline air quality (1-hour TSP and 24-hour TSP levels) monitoring was conducted at AM5A (an alternative monitoring location for AM5). The baseline air quality monitoring results for AM5A are considered representative to the ambient air quality conditions of the respective sensitive receiver. The Action and Limit Levels for the air quality are established based on the baseline monitoring results.

Baseline noise monitoring was conducted at monitoring station NM5A (an alternative monitoring location for NM5). The baseline noise monitoring results for NM5A are considered representative to the ambient conditions of the respective sensitive receiver.

In conclusion, the Contractor is advised to be aware of any site practice that may give rise to significant pollution to the existing environment. Implementation of necessary remedial measures should be ensured to rectify the potential impact on sensitive receivers located in the vicinity of the construction area.

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Appendix 1 BASELINE MONITORING LOCATIONS

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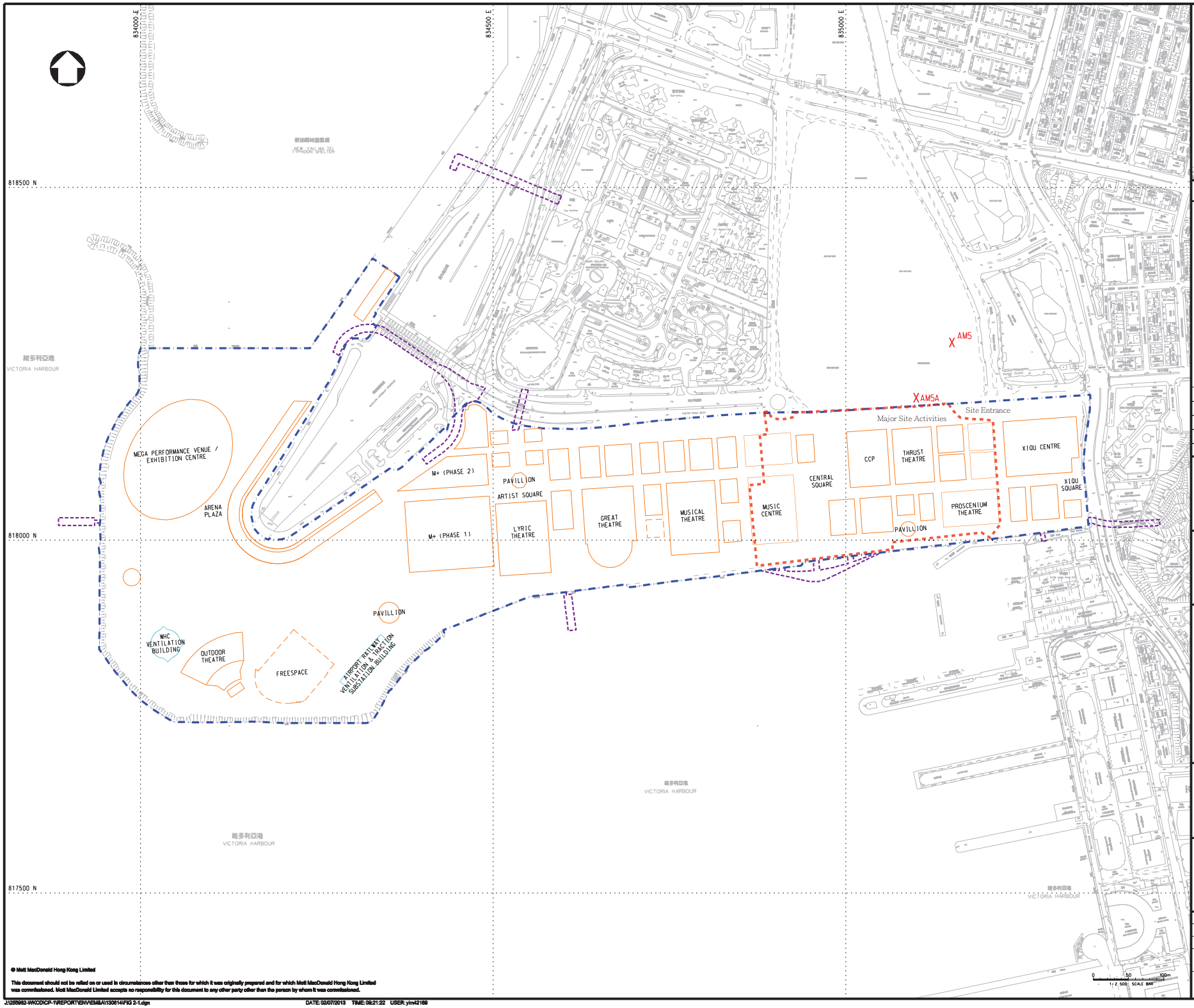

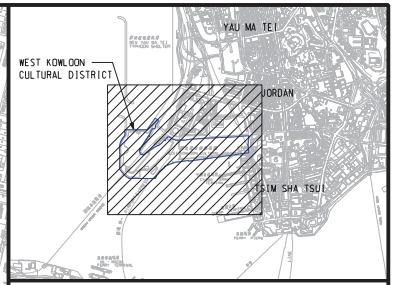

KEY PLAN

LEGEND:

- PROJECT BOUNDARY
- EXTERNAL CONNECTIONS (INDICATIVE SUBJECT TO FUTURE DESIGN & ARRANGEMENT)
- PROPOSED FOOTPRINT BOUNDARY
- EXISTING FACILITIES
- AM1 CONSTRUCTION AIR MONITORING STATIONS
- Zone 2A Site Boundary

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	JUN 13	MING	GENERAL REVISION	AM	AFK
P3	MAY 13	MING	GENERAL REVISION	EY	AFK
P2	MAR 13	MING	GENERAL REVISION	AM	AFK
P1	AUG 12	MING	FIRST ISSUE	AM	AFK

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Project

PROJECT CONSULTANCY STUDY FOR WEST KOWLOON CULTURAL DISTRICT DEVELOPMENT PLAN

Title

PROPOSED LOCATIONS OF CONSTRUCTION AIR MONITORING STATIONS

Designed	HC		Eng check	ST	
Drawn	MING		Coordination	EC	
Dwg check	HC		Approved	AFK	
Scale at A1 1:2500		Status PRE		Rev P4	

Drawing Number

FIGURE 2.1

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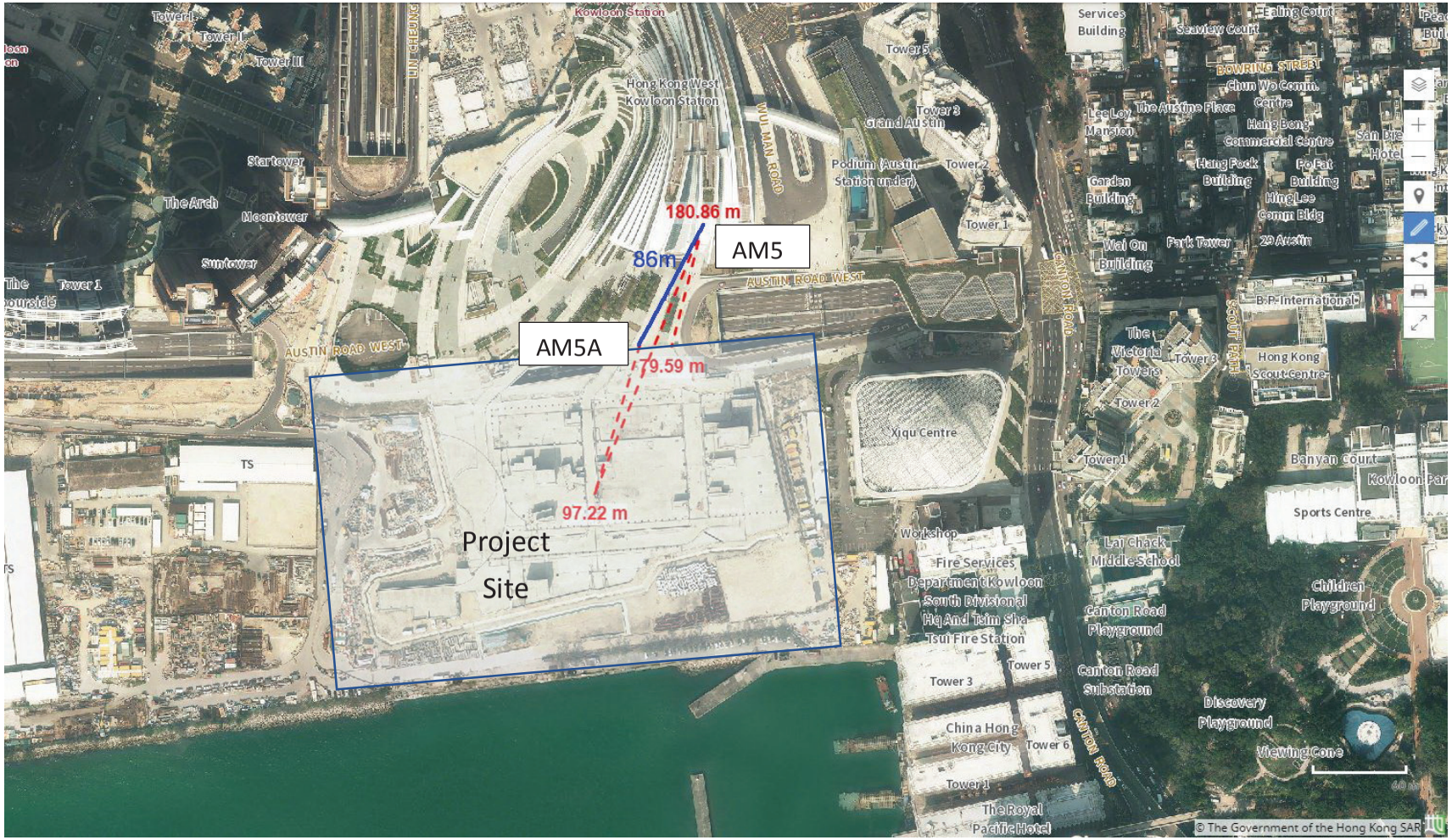
Distance of AM5 and AM5A to the Project Site



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AM5A Close View

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AM5A Far View 1

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AM5A Far View 2

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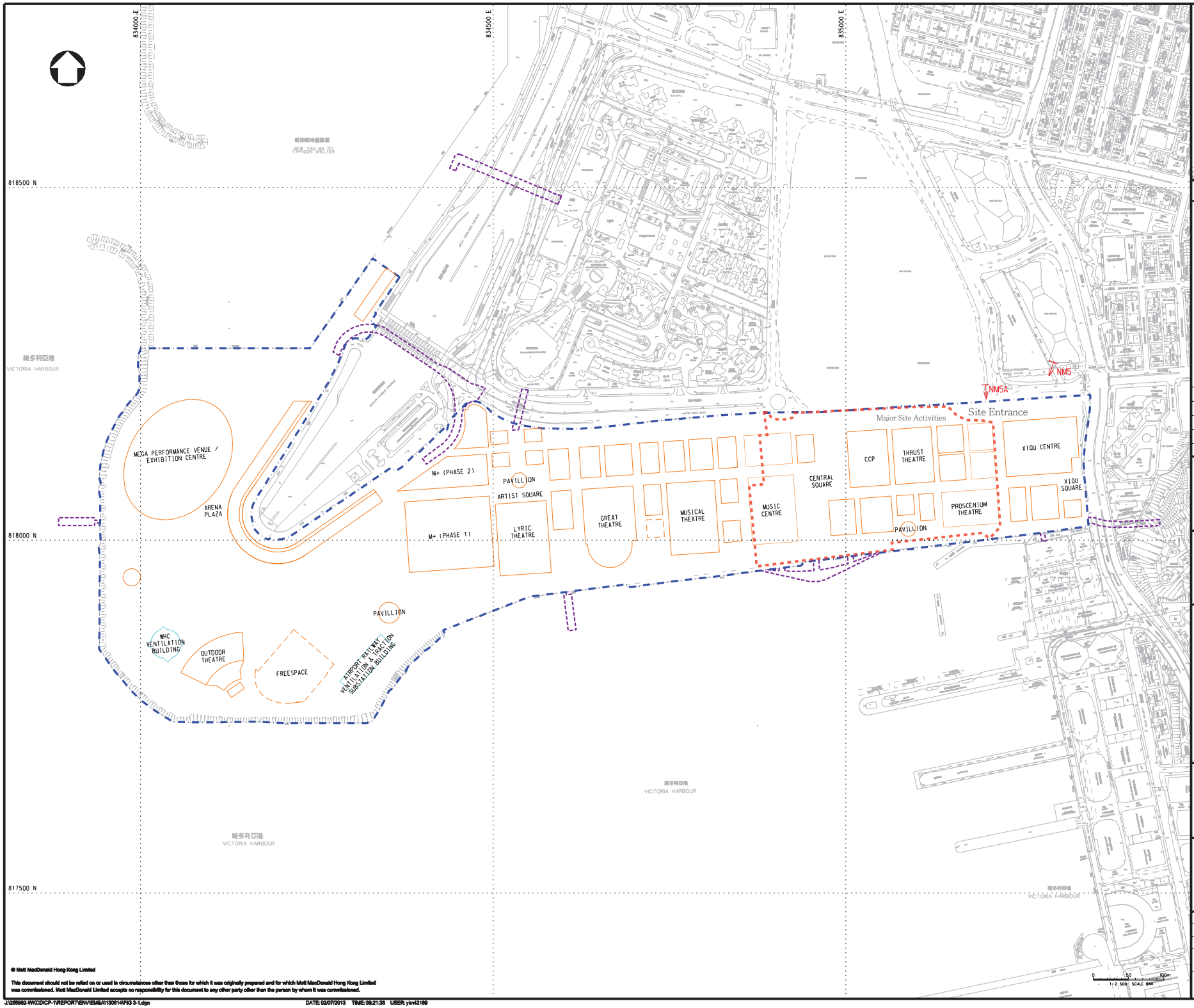

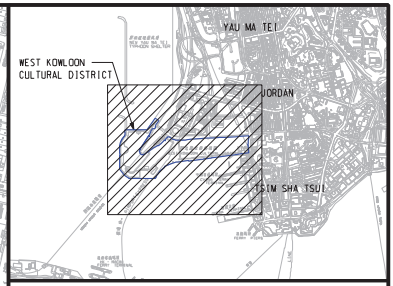

KEY PLAN

LEGEND:

- PROJECT BOUNDARY
- EXTERNAL CONNECTIONS (INDICATIVE SUBJECT TO FUTURE DESIGN & ARRANGEMENT)
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Rev	Date	Drawn	Description	Ch'k'd	App'd
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Project

PROJECT CONSULTANCY STUDY FOR WEST KOWLOON CULTURAL DISTRICT DEVELOPMENT PLAN

Title

PROPOSED LOCATIONS OF CONSTRUCTION NOISE MONITORING STATIONS

Designed	SC		Eng check	ST	
Drawn	MING		Coordination	EC	
Dwg check	SC		Approved	AFK	
Scale at A1 1:2500		Status PRE		Rev P4	

Drawing Number

FIGURE 3.1

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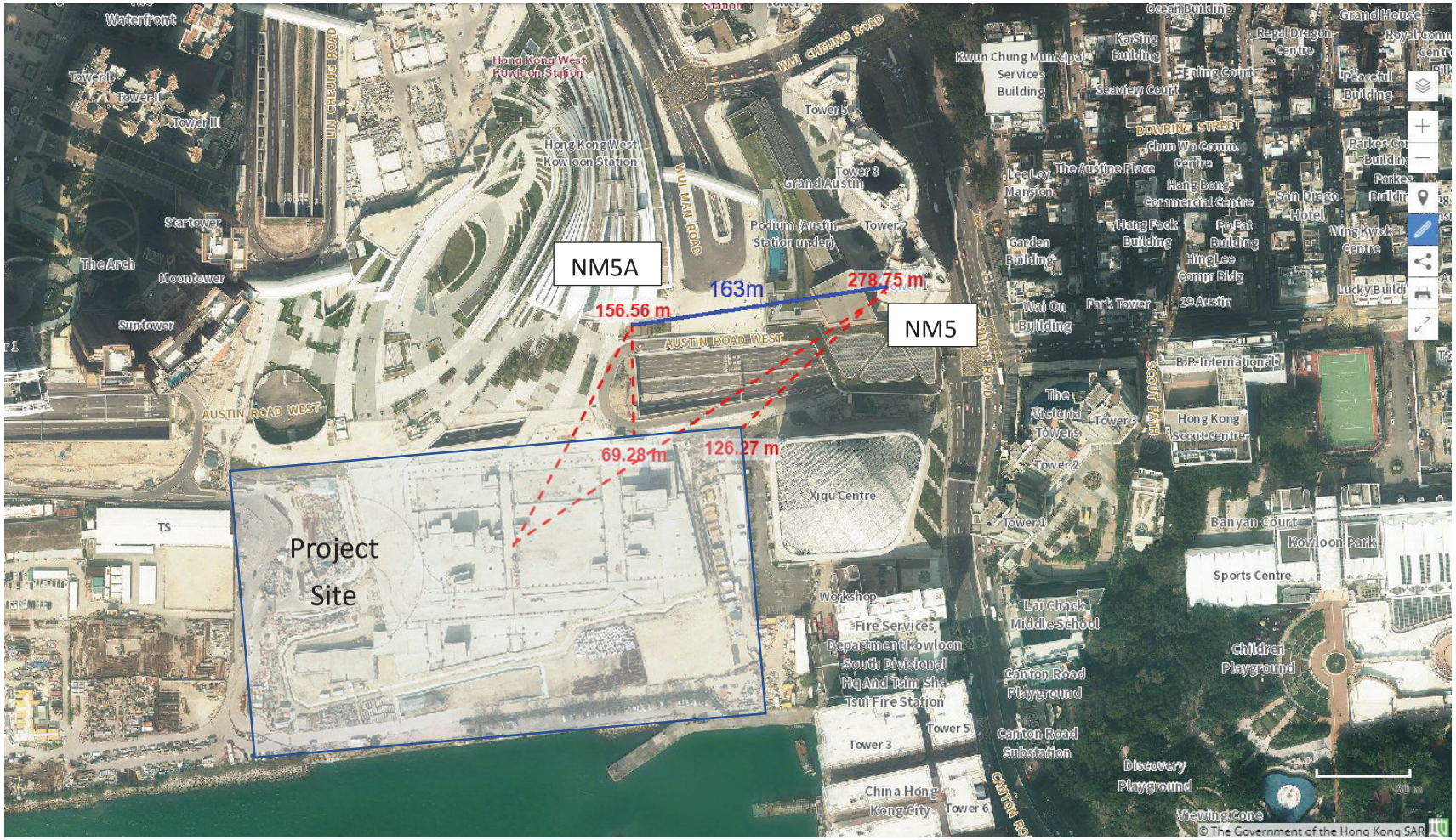
Distance of NM5 and NM5A to the Project Site



APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

NM5A Front View

APEX Testing & Certification Ltd
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NM5A Side View

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NM5A Far View

APEX Testing & Certification Ltd
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Appendix 2 REJECTION LETTER OF DESIGNATED MONITORING LOCATIONS (AM5 & NM5)

APEX Testing & Certification Ltd
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MTR Corporation Limited
香港鐵路有限公司
www.mtr.com.hk

Bachy Soletanche – Fujita Corporation Joint Venture
Unit 1503-1506, 15/F., Wing On Kowloon Centre
345 Nathan Road
Kowloon

Our Ref : O/RAP/KOW/0032-0019

Date : 15 July 2020

Attn.: Mr. CL Law (Project Manager)

By Post & Fax: 2722 0227

Dear Sir,

West Kowloon Cultural District Authority
Contract No. CC/2018/2A/073: Foundation and Excavation and Lateral Support Works for Integrity Basement and Underground Road in Zone 2A of West Kowloon Cultural District
Request Access for Air Monitoring at West Kowloon Terminus

Your letter of Reference: BFJV/S2013/16085/0012 dated 10 July 2020 in respect of the captioned subject refers.

Please be advised that since the locations of the proposed air monitoring work are within the Express Rail Link West Kowloon Terminus premise which is currently closed and hence cannot be accessed by public. Hence currently we are unable to provide you the necessary access for the air monitoring work.

Should you have any queries, please feel free to contact the undersigned (tel.: 9172 8364, fax no.: 2754 6959 or e-mail: kmyu@mtr.com.hk).

Yours faithfully

K M Yu
for Railway Protection & Land Survey Manager

MIX
Paper from responsible sources
FSC™ C123738

BACHY SOLETANCHE 法國地基建築公司

FUJITA Daiwa House Group

Bachy Soletanche - Fujita Corporation Joint Venture

Our Ref.: BFJV/S2013/16085/0012

10 July 2020

MTR Corporation Limited
Fo Tan Railway House,
No.9 Lok King Street,
Fo Tan, Shatin

Attn: Mr. K.M. YU

Dear Sir,

West Kowloon Cultural District Authority
Contract No. CC/2018/2A/073: Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District
Request Access for Air Monitoring at West Kowloon Terminus

We are the main contractor for the project of West Kowloon Cultural District.

To promote well-being of the neighborhood and fulfill in environmental aspect, we would like to request access for baseline and impact air monitoring at your premise with the following details:

Location	Type of Measurement	Parameter	Duration	Period	Frequency
1. Planter Area, Footbridge between Elements and West Kowloon Terminus 2. Open space at Topside of West Kowloon Terminus	Baseline Monitoring, Air Quality	24-hr TSP	14 consecutive days	Start from early July 2020	24 hours per day
		1-hr TSP			3 hours per day
	Impact Monitoring, Air Quality	24-hr TSP	Once every 6 days	3rd week of July 2020 - Nov 2022	24 hours per visit
		1-hr TSP			3 hours per visit

Should any further information is required, please feel free to contact our Environmental Engineer – William Chan at 5408 3045.

We look forward to your reply in acknowledgement of this letter.

Thank you.

Yours faithfully,

110 – KOW/32-0019

8/7
Covid-19
Mr Fan Dave

CL LAW
Project Manager
for and on behalf of
Bachy Soletanche – Fujita Corporation Joint Venture

CLL/JC/NIL/HCH/cle

Unit 1503-1506, 15/F., Wing On Kowloon Centre
345 Nathan Road, Kowloon
Tel : 2369 2869
Fax : 2722 0227

寄件者: FAN Dave Pui Kiu (范沛翹) <FANDavPK@mtr.com.hk>
寄件日期: 2020年7月8日星期三 17:47
收件者: PANG Ricky
副本: CHAN Philip; LAU Nick; CHAN William-Hou; HOU Man-Cheung; LAW Chi-Lam; YU KM Kwong Ming (余廣明)
主旨: RE: 16085 WKCD_2A_Foundation: Air monitoring

郵件標幟: Follow up
標幟狀態: 已標幟

Dear Ricky

Further to our site visit today (08 July 2020), it is noted that Hong Kong West Kowloon Station was closed due to the COVID-19 pandemic until further notice. The selected location in your drawing was in-accessible now, please consider other location.

Thanks

Dave Fan
Section Engineer - RP
MTR Corporation Limited
fandavpk@mtr.com.hk

www.mtr.com.hk

From: PANG Ricky <Ricky.PANG@soletanche-bachy.com>
Sent: Thursday, 02 July, 2020 15:53
To: YU KM Kwong Ming (余廣明) <KMYU@mtr.com.hk>
Cc: CHAN Philip <philip.chan@soletanche-bachy.com>; LAU Nick <Nick.LAU@soletanche-bachy.com>; CHAN William-Hou <william-hou.chan@soletanche-bachy.com>; HOU Man-Cheung <Man.Cheung.HOU@soletanche-bachy.com>; LAW Chi-Lam <CL.LAW@soletanche-bachy.com>; FAN Dave Pui Kiu (范沛翹) <FANDavPK@mtr.com.hk>
Subject: [External Email] RE: 16085 WKCD_2A_Foundation: Air monitoring

Dear Yu Sir,

Thanks for your prompt response. Your comments noted and will action accordingly.

Best Regards

Ricky Pang
Structural and Design Co-ordination Manager
Mobile (852)9620 3707

Bachy Soletanche - Fujita Corporation Joint Venture

From: YU KM Kwong Ming (余廣明) [mailto:KMYU@mtr.com.hk]
Sent: Thursday, July 2, 2020 3:50 PM
To: PANG Ricky <Ricky.PANG@soletanche-bachy.com>
Cc: CHAN Philip <philip.chan@soletanche-bachy.com>; LAU Nick <Nick.LAU@soletanche-bachy.com>; CHAN William-Hou <william-hou.chan@soletanche-bachy.com>; HOU Man-Cheung <Man.Cheung.HOU@soletanche-bachy.com>; LAW Chi-Lam <CL.LAW@soletanche-bachy.com>; FAN Dave Pui Kiu (范沛翹) <FANDavPK@mtr.com.hk>
Subject: RE: 16085 WKCD_2A_Foundation: Air monitoring

Dear

The captioned subject refers.

Please be advised that from Railway Protection point of view, we have no objection to the proposal of Air Monitoring.

Please contact our Mr. Dave Fan (Tel.: 6378 9288) to have a site , to identify the exact location , to check the accessibility of the monitoring location and to identify any power source for your equipment, and to inform our XRL Station Controller if deem necessary.

Please also be alerted that the security of the monitoring equipment placing there is your own responsibility.

K M YU
Tel.: 9172 8364
MTR Corporation Limited
kmyu@mtr.com.hk

www.mtr.com.hk

From: PANG Ricky <Ricky.PANG@soletanche-bachy.com>
Sent: Thursday, 02 July, 2020 14:54
To: YU KM Kwong Ming (余廣明) <KMYU@mtr.com.hk>
Cc: CHAN Philip <philip.chan@soletanche-bachy.com>; LAU Nick <Nick.LAU@soletanche-bachy.com>; CHAN William-Hou <william-hou.chan@soletanche-bachy.com>; HOU Man-Cheung <Man.Cheung.HOU@soletanche-bachy.com>; LAW Chi-Lam <CL.LAW@soletanche-bachy.com>
Subject: [External Email] 16085 WKCD_2A_Foundation: Air monitoring

Dear Yu Sir,

To promote well-being of the neighborhood in environmental aspect, we would like to seek for your advice on site access for baseline and impact air monitoring at your property with the following details:

Location	Type of Measurement	Parameter	Duration	Period	Frequency
1. Planter Area, Footbridge between Elements and West Kowloon Terminus 2. Open space at Topside of West Kowloon Terminus	Baseline Monitoring, Air Quality	24-hr TSP	14 consecutive days	Start from early July 2020	24 hours per day
		1-hr TSP			3 hours per day
	Impact Monitoring, Air Quality	24-hr TSP	Once every 6 days	3rd week of July 2020 - Nov 2022	24 hours per visit
		1-hr TSP			3 hours per visit

Our Environmental Engineer – William Chan (tel. 5408 3045) will contact you directly for more details, thank you.

Best Regards

Ricky Pang
Structural and Design Co-ordination Manager
Mobile (852)9620 3707

BACHY SOLETANCHE 法國地基建築公司
FUJITA
Daiwa House Group

Bachy Soletanche - Fujita Corporation Joint Venture

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MTR Corporation Limited
香港鐵路有限公司
www.mtr.com.hk

Premier
mtrpropertym

Our Ref.: GAU/P2.11.7/2020/0702

10 July 2020

Bachy Soletanche – Fujita Corporation joint Venture
Unit 1503-1506, 15/F.
Wing On Kowloon Centre
345 Nathan Road, Kowloon
Attn: Mr. CL LAW – Project Manager

By Fax: 2369 2869 and by Hand

Dear Mr. Law,

Re: Request Access for Noise Monitoring at Grand Austin

We refer to your email and written request dated 4 July 2020 and 6 July 2020 respectively for the captioned, we regret to inform you that your request for noise monitoring at our premises is declined due to security manpower constraints.

If you require any further information and discussion in this regard, please contact our Assistant Property Manager, Ms. Czerny Wu at 3417 9988 during office hours.

Yours sincerely,

Carmen Lee
Property Manager
Grand Austin Guest Service Centre
CL/cw

16085 - BFJV
Date: 10 JUL 2020
File No. 5-11.3

Circulate	Visa	Action	Circulate	Visa	Action
DEREK		O	RAYMOND	O	O
MIKE		O	MAX	O	O
CL LAW		O	QUEENIE	O	O
MC HOU		O	Suet	O	O
PHILIP		X O	ENGINEER	O	O
RICKY		O	SAFETY	O	O
NICK		X O	William		X O
CHARLES	O	O	SUPERINTENDEN	O	O
SAMUEL	O	O	PURCHASER	O	O
KS MAK	O	O		O	O
ALEX NG	O	O	Copy to FUJITA	✓	
CARRIE	O	O	Original BSG Site	✓	

MIX
Paper from responsible sources
FSC www.fsc.org FSC™ C123738

寄件者: WU Czerny Ching Man (胡瀞文) <CZERNY@mtr.com.hk>
寄件日期: 2020年7月6日星期一 9:41
收件者: CHAN William-Hou
副本: Grand Austin Mgt. Office
主旨: FW: [External Email] Fwd: Request for Noise Monitoring at the Grand Austin

Dear William,

Thank you for your mail and the subsequent conversation this morning. As spoke, we regret to decline as the proposing test period & frequency are quite demanding and it's a bit hard to facilitate under our manpower & security constraint.

Thank you very much again for your understanding.

Best Regards,

Czerny Wu
Assistant Property Manager
MTR Corporation Limited
Grand Austin Guest Service Centre
9 Austin Road West, Kowloon
czerny@mtr.com.hk
(852) 3417 9988

From: Grand Austin Mgt. Office
Sent: Saturday, July 04, 2020 9:56 AM
To: SUN Caroline Bun Bun (孫彬彬); TANG Wilson Ka Wai (鄧嘉煒); TANG Winnie Kam Yu (鄧錦如); LEUNG KH Ka Ho (梁家豪); MA Fish Kit Yu (馬潔渝); WONG Milky Nga Yan (王雅恩); WU Czerny Ching Man (胡瀞文); LUI Daniel Tsz Tak (呂智德); KONG Joyce Lok Mei (江樂美); LEE Carmen Ching Man (李靜雯); SIN Arion Kin Kwok (冼健國)
Subject: FW: [External Email] Fwd: Request for Noise Monitoring at the Grand Austin

---

From: grand austin
Sent: Saturday, July 4, 2020 9:55:43 AM (UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi
To: Grand Austin Mgt. Office
Subject: [External Email] Fwd: Request for Noise Monitoring at the Grand Austin

---------- Forwarded message ---------
From: **CHAN William-Hou** <william-hou.chan@soletanche-bachy.com>
Date: Sat, Jul 4, 2020 at 9:44 AM
Subject: Request for Noise Monitoring at the Grand Austin
To: grandaustin@mtrchome.com <grandaustin@mtrchome.com>
Cc: LAU Nick <Nick.LAU@soletanche-bachy.com>

Dear Sir/Madam,

We are the main contractor for the project of West Kowloon Cultural District.

To promote well-being of the neighborhood in environmental aspect, we would like to seek for your advice on site access for baseline and impact noise monitoring at your property with the attached details:

Location	Type of Measurement	Parameter	Duration	Period	Frequency
Open area, 1m away from the façade of the Grand Austin	Baseline Monitoring, Noise	Leq (30 min)	14 consecutive days	6/7 – 20/7	12 hours (0700-1900)
	Impact Monitoring, Noise	Leq (30 min)	Weekly	August 2020 – Nov 2022	30 min (0700-1900)

Should you have any inquiries, please do not hesitate to contact the undersigned.

Regards,

William H. Chan

Environmental Engineer

Bachy Soletanche – Fujita Corporation Joint Venture

Mobile: +852 5408 3045

E-mail: william-hou.chan@soletanche-bachy.com

--
Best Regards,
Grand Austin Guest Service Centre
Tel: 3417 9988
Fax:3417 9998

Appendix 3 BASELINE MONITORING SCHEDULE

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

August 2020 (Hong Kong)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8 TSP and Noise Baseline Monitoring
9 TSP and Noise Baseline Monitoring	10 TSP and Noise Baseline Monitoring	11 TSP and Noise Baseline Monitoring	12 TSP and Noise Baseline Monitoring	13 TSP and Noise Baseline Monitoring	14 TSP and Noise Baseline Monitoring	15 TSP and Noise Baseline Monitoring
16 TSP and Noise Baseline Monitoring	17 TSP and Noise Baseline Monitoring	18 TSP and Noise Baseline Monitoring	19 TSP and Noise Baseline Monitoring	20 TSP and Noise Baseline Monitoring	21 TSP and Noise Baseline Monitoring	22 TSP and Noise Baseline Monitoring
23 TSP and Noise Baseline Monitoring	24	25	26	27	28	29
30	31	1	2	3	4	5

Note: Typhoon Higos hoisted Signal No.1 at 03:40 on 18 August 2020 and moved away from Hong Kong at 13:20 on 19 August 2020. Typhoon Signal No.8 and No.9 were hoisted during the period. The monitoring data of air quality and noise monitoring at AM5A and NM5A on 18 August and 19 August 2020 are recorded and provided for reference only; these data have not been taken into account.

Appendix 4 CALIBRATION CERTIFICATES

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

TE-5170 Calibration Worksheet

Site Information

Location:	AM5A	**Site ID:**	Zones 2A at West Kowloon Cultural	**Date:**	20-Jul-20
Sampler:	TE-5170	**Serial No:**	4344	**Tech:**	CS Tang

Site Conditions

Barometric Pressure (in Hg):	29.83	**Corrected Pressure (mm Hg):**	758
Temperature (deg F):	86	**Temperature (deg K):**	303
Average Press. (in Hg):	29.83	**Corrected Average (mm Hg):**	758
Average Temp. (deg F):	86	**Average Temp. (deg K):**	303

Calibration Orifice

Make:	Tisch	**Qstd Slope:**	1.29548
Model:	TE-5025A	**Qstd Intercept:**	-0.03015
Serial#:	3543	**Date Certified:**	8-Nov-19

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)
1	12.10	2.682	53.0	52.48
2	10.30	2.476	48.0	47.53
3	7.30	2.088	41.0	40.60
4	4.30	1.608	33.0	32.68
5	2.20	1.157	23.0	22.77

Linear Regression

Slope:	18.8945
Intercept:	1.3772
Corr. Coeff:	0.9985
# of Observations:	5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Average I (chart): 40
Average Flow Calculation m3/min
2.00242263
Average Flow Calculation in CFM
70.70554307
Sample Time (Hrs): 1.0
Total Flow in m3/min
120.1453578
Total Flow in CFM
4242.332584

NOTE: Ensure calibration orifice has been certified within 12 months of use

TISCH Environmental

RECALIBRATION DUE DATE:
November 8, 2020

Certificate of Calibration

Calibration Certification Information					
Cal. Date:	November 8, 2019	**Rootsmeter S/N:** 438320	**Ta:** 296	°K
Operator:	Jim Tisch		**Pa:** 760.7	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3543**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4110	3.2	2.00
2	3	4	1	1.0100	6.4	4.00
3	5	6	1	0.8990	7.9	5.00
4	7	8	1	0.8560	8.7	5.50
5	9	10	1	0.7100	12.7	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0035	0.7112	1.4197	0.9958	0.7057	0.8822
0.9992	0.9894	2.0077	0.9916	0.9818	1.2476
0.9973	1.1093	2.2447	0.9896	1.1008	1.3948
0.9962	1.1638	2.3542	0.9886	1.1549	1.4629
0.9909	1.3956	2.8393	0.9833	1.3849	1.7643
QSTD	**m=**	**2.06886**	**QA**	**m=**	**1.29548**
	b=	**-0.04852**		**b=**	**-0.03015**
	r=	**0.99994**		**r=**	**0.99994**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

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CERTIFICATE OF ACCREDITATION

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AQUALITY TESTCONSULT LIMITED

11A&B, KAI FONG GARDEN, PING CHE ROAD
FANLING, HONG KONG

Calibration Laboratory CL-207

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This certificate is valid up to December 1, 2020.

(See laboratory's scope of accreditation for fields of calibration and accredited calibration.)

This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.

IAS INTERNATIONAL ACCREDITATION SERVICE®

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Raj Nathan
President

18-15965

SCOPE OF ACCREDITATION

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)[1,2]

CALIBRATION AREA	RANGE	EXPANDED UNCERTAINTY[3] (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
Flow table[4]	15 kg to 17 kg 1 mm up to 71 mm	12 g 600 µm	Weighing Balance, Reference caliper & Reference steel ruler by direct measurement
Test Sieve[4]	4 mm to 50 mm	50 µm	Reference Caliper by direct measurement
Mechanical			
Force Measuring Machine[4] (Compression Mode)	1 kN to 3000 kN	0.4 %	Ref. Load cell by direct measurement BS 1610: Part 1:1985; BS 1610: Part 1:1992; BS EN ISO 12390-4:2000 Annex B; BS EN ISO 7500-1:2004
Laser Dust Meter[4]	Dust particles 0.001 mg/m^3 to 10.00 mg/m^3	0.9 mg/m^3	By comparison method by using reference laser dust meter
Rebound Hammer[4]	80 unit (hardness)	1.6 rebound count	Reference Rebound count by comparison method. BS1881: Part 202:1986; BS EN 12504-2:2001; BS EN 12504-2:2012
Mass (F2 class and coarser)	1 g to 200 g 200 g to 5 kg 5 kg to 10 kg 10 kg to 50 kg	1.3 mg 0.5 g 1 g 7 g	Standard Weight E2/ F1 Class & Weighing Balances by comparison method (OIMLR111)
Weighing Scale & Balance[4]	1 g to 200 g 200 g to 5 kg 5 kg to 50 kg	1 mg 1 g 15 g	Standard weight of E2/F1 Grade by direct measurement
Volumetric Glassware	1 mL to 100 mL 100 mL to 1000 mL	0.004 mL 0.09 mL	Standard weight E2 Class, Weighing Balances & Distilled water by gravimetric method
Thermal			
Digital/Liquid in Glass Thermometers & *RTD/* Thermocouples with or without Indicators	15 °C to 55°C 55°C to 95°C	0.4 °C 0.9 °C	Water Baths, Reference Sensor and Indictor by Comparison Method (OIML R133)

Mutual Recognition Arrangements (MRA) / Multilateral Recognition Arrangements (MLA)

- HOKLAS - Mutual Recognition Arrangements (MRA)
- HKCAS - Multilateral Recognition Arrangements (MLA)
- HKIAS - Mutual Recognition Arrangement (MRA)

HOKLAS - Mutual Recognition Arrangements (MRA)

Every effort is made to promote acceptance of test data from accredited laboratories, both internationally and locally. HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for testing, calibration, medical testing, Proficiency Testing Providers (PTP) and Reference Material Producers (RMP). Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

Visitors checking the names, logos and accreditation symbols shown on an endorsed certificate or report should note that some of our MRA partners may have their names, logos or accreditation symbols changed recently and test reports or certificates endorsed by displaying their old accreditation symbols may still be valid during the change-over period. For details, please visit their websites or contact them directly.

- Mutual Recognition Arrangement (MRA) Partners for HOKLAS

HKAS MRA partners will recognise HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

HKCAS - Multilateral Recognition Arrangements

HKAS has been a signatory of Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for Quality Management System (QMS), Environmental Management System (EMS), Food Safety Management System (FSMS), Energy Management System (EnMS), Occupational Health and Safety Management System (OHSMS) certifications, product certifications, and Greenhouse Gas (GHG) validation and verification.

HKAS has also been a signatory of the International Accreditation Forum Multilateral Recognition Arrangement (IAF MLA) for Quality Management System (QMS), Environmental Management System (EMS), Food Safety Management System (FSMS), Energy Management System (EnMS) certifications, product certifications, and Greenhouse Gas (GHG) validation and verification.

Click here to view the up-to-date signatories of IAF and here to access the up-to-date signatories of APAC.

- Mutual / Multilateral Recognition Arrangements (MRA / MLA) Partners for HKCAS

HKIAS - Mutual Recognition Arrangements (MRA)

HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for inspection. Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

HKAS MRA partners will recognise HKIAS endorsed inspection reports or certificates having the same technical validity as reports or certificates endorsed by their respective schemes.

- Mutual Recognition Arrangement (MRA) Partners for HKIAS

FAQ / Information

Mutual Recognition Arrangements (MRA) / Multilateral Recognition Arrangements (MLA)

Mutual Recognition Arrangement (MRA) Partners for HOKLAS

Every effort is made to promote acceptance of test data from accredited laboratories, both internationally and locally. HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for testing, calibration, medical testing, Proficiency Testing Providers (PTP) and Reference Material Producers (RMP). Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

Visitors checking the names, logos and accreditation symbols shown on an endorsed certificate or report should note that some of our MRA partners may have their names, logos or accreditation symbols changed recently and test reports or certificates endorsed by displaying their old accreditation symbols may still be valid during the change-over period. For details, please visit their websites or contact them directly.

» Mutual Recognition Arrangement (MRA) Partners for HOKLAS

HKAS MRA partners will recognise HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

Multilateral Recognition Arrangements (MLA) for HKCAS

Mutual Recognition Arrangement (MRA) Partners for HKIAS

back

Economy	Logo	Name of Partner	URL	Calibration	Testing	ISO 15189 (Medical Testing)	RMP	PTP
Ukraine		National Accreditation Agency of Ukraine (NAAU)	www.naau.org.ua	•	•			
United Arab Emirates		Emirates National Accreditation System (ENAS)	http://www.enas.gov.ae	•	•			
United Arab Emirates		Emirates International Accreditation Center (EIAC)	www.eiac.gov.ae	•	•	•		
United Kingdom of Great Britain and Northern Ireland		United Kingdom Accreditation Service (UKAS)	www.ukas.com	•	•	•		•
United States of America		Perry Johnson Laboratory Accreditation, Inc. (PJLA)	www.pjlabs.com	•	•	•	•	
United States of America		International Accreditation Service Inc. (IAS)	www.iasonline.org	•	•			
United States of America		ANSI-ASQ National Accreditation Board (ANAB)	www.anab.org	•	•	•	•	•
United States of America		American Association for Laboratory Accreditation (A2LA)	www.a2la.org	•	•	•	•	•
United States of America		AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC)	www.aihaaccreditedlabs.org		•			
United States of America		National Voluntary Laboratory Accreditation Program (NVLAP)	www.nist.gov/nvlap	•	•			
Uruguay		Organismo Uruguayo De Acreditación (OUA)	www.organismouruguayodeacreditacion.org	•	•			

RMP: Reference Material Producer ; PTP: Proficiency Testing Provider

東恒測試顧問有限公司
AQUALITY TESTCONSULT LIMITED
香港新界粉嶺坪輋路啟芳園11A&11B號
No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG
TEL : 852-3582-9589 FAX : 852-2674-1177 EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

IAS ACCREDITED Calibration Laboratory

CERTIFICATE OF CALIBRATION

Report Number : 1911ICA-4F
Date of Report : 22-Nov-19
Page Number : 1 of 2
Customer * : Apex Testing & Certification Ltd.
Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK
Customers Ref. * : A005

Item Under Calibration (IUC)*
Equipment No. : N/A
Manufacturer : Met One Instruments, Inc.
Model No. : Aerocet-531S
Serial No. : P21676
Scale Division : 0.001 mg/m3
Range : 0.001 to 1 mg/m3
Condition of Item : Normal

Date Item Received : 17-Nov-19
Date Calibrated : 17-Nov-19
Calibration Location : AQuality Calibration Lab.
Date of Next Calibration : 16-Nov-20
Calibrated By : Jessica Liu

Test Environment
Ambient Temperature : 26.5 °C to 21.4 °C
Relative Humidity : 66 % to 87 %

Calibration Results

Reference True Reading (mg/m3)	Average IUC Reading (mg/m^3)	Correction (mg/m^3)	Error of IUC Reading (%)	Expanded Uncertainty (mg/m^3)	Coverage Factor K
0.062	0.058	0.004	-6.3	0.041	2.0
0.307	0.312	-0.004	1.3	0.053	2.0
0.546	0.577	-0.031	5.3	0.052	2.0

Remarks :
1. * Denotes information supplied by customer.
2. The results relate only to the items calibrated.
3. The results apply to the items as received.
4. Correction = Average of (Ref reading - IUC reading)
5. The technical requirement of laser dust meter. +/- 20% error for the particles concentration.

Approved by: _____
LEE Mei Yee, Julia
Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

The certificate shall not be reproduced except in full without approval of the laboratory.

東恒測試顧問有限公司
AQUALITY TESTCONSULT LIMITED
香港新界粉嶺坪輋路啟芳園11A&11B號
No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG
TEL : 852-3582-9589 FAX : 852-2674-1177 EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Report Number : 1911ICA-4F
Date of Report : 22-Nov-19

Customer * : Apex Testing & Certification Ltd.
Customers Ref. * : A005

Details of Calibration

1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.

2. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.25 hour before commencement of calibration.

3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.

4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capabiliy of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.

5. The identification, calibration certificate numbers for the reference equipment used were as follows :

Equipment Number	Certificate Number	Description
CH-LDM-1	HBW201901312	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.
The certificate shall not be reproduced except in full without approval of the laboratory.

東恒測試顧問有限公司
AQUALITY TESTCONSULT LIMITED
香港新界粉嶺坪輋路啟芳園11A&11B號
No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, N.T., HONG KONG
TEL : 852-3582-9589
FAX : 852-2674-1177
EMAIL : cal.aqtl@gmail.com
WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd. Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Test Report No.	1911MCA-15Fa
	Date of Issue	16-Dec-19
	Date of Testing	17-Nov-19
	Page	1 of 1

Item for Calibration

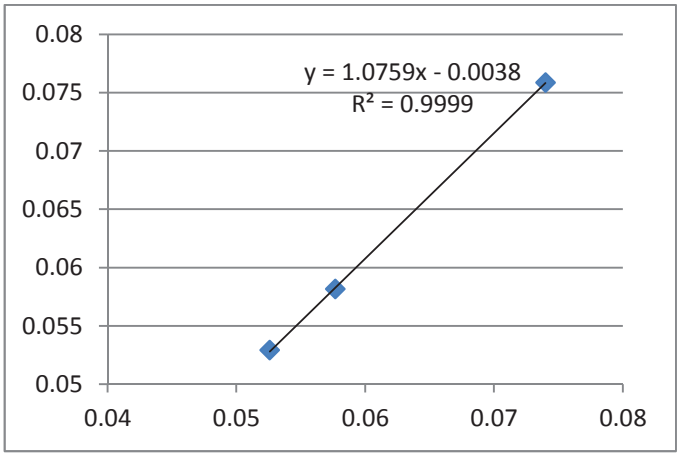
Description : Laser Dust Monitor
Manufacturer : Met One Instruments, Inc.
Model No. : Aerocet-531S
Serial No. : P21676

Standard Equipment

Description : High Volume Sampler / Calibration Orifice
Manufacturer : Tisch Environmental, Inc.
Model No. : TE-5170 / TE-5025A
Serial No. 4344 / 3543
Last Calibration : 17-Nov-19 / 8-Nov-19

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (mg/m3)
17-Nov-19	09:30	24.0	1018.1	0.0740	0.0759
17-Nov-19	10:35	24.0	1018.1	0.0526	0.0529
17-Nov-19	11:40	24.0	1018.1	0.0577	0.0582

By Linear Regression of Y or X
Slope (K-factor) : 1.0759
Correlation Coefficient : 0.9999
Validity of Calibration : 16-Nov-20



Remark: : Revised the "Recorded by" & "Checked by" information
: Superseding to Test Report Serial Number 1911MCA-15F

Recorded by : Jessica Liu Signature: Jessica Date: 17-Nov-19

Checked by : S Tang Signature: Tang Date: 17-Nov-19

CTI 华测检测 CENTRE TESTING INTERNATIONAL

ilac-MRA CNAS 中国认可 国际互认 校准 CALIBRATION CNAS L5102

校准证书

CALIBRATION CERTIFICATE

证书编号 Certificate No. WC19213911151Q07-02

委托单位 Client: 上峰检测认证有限公司

委托单位地址 Address: 香港荃湾海盛路3号TML广场10楼D6A室

计量器具名称 Description: 声级计 Sound Level Meter

型号规格 Model /Type: AWA5661

制造商 Manufacturer: 杭州爱华仪器有限公司

编号 Serial No.	301134	委托日期 Application Date	2019-10-11
结论 Conclusion	见校准结果页 Show in the result of calibration	签发日期 Issue Date	2019-10-16

校准 Calibrated by 王晓芳

审核 Inspected by 于杰

批准 Approved by 李晓甫

李晓甫 授权签字人

证书专用章 Issued by (Stamp)

深圳市华测计量技术有限公司 CTI METROLOGY TECHNOLOGY 报告专用章 Report Seal

校准日期 Calibration Date 2019 年 10 月 14 日 Y M D

建议下次校准日期 Next Calibration Date 2020 年 10 月 13 日 Y M D

地址: 深圳市宝安区新安街道留仙三路4号华测检测大楼 邮政编码(Post No.): 518101
Address: CTI Building, NO.4, Liuxian 3rd Road, Xin'an Street, Bao'an District Shenzhen, P.R China
电话(Tel):86-755-33682045 传真(Fax): 86-755-33683385 E-mail: calibration@cti-cert.com http://www.cti-cert.com

说 明

DIRECTIONS

证书编号 WC19213911151Q07-02 第 2 页 共 7 页
Certificate No. Page of

1. 本公司出具的数据均可溯源到国家计量基准和国际单位制（SI）.
The data is based on the national measurement standards and SI unit standards.

2. 此证书无本公司盖章无效。未经本公司书面批准，不得部分复制校准证书.
The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTI.

3. 本证书校准结果只与受校准仪器有关.
The results relate only to the items calibrated.

4. 本次校准的技术依据： 参照 JJG188-2017《声级计检定规程》
Reference documents for the calibration:

5. 本次校准所使用的主要计量标准器具：
Main measure equipments are used in the Calibration:

设备名称/型号 Name of Equipment/Model	编号 Serial No.	证书号/有效期 Certificate No./Due Date	计量特性 Technical Characteristic
测量放大器/AWA5810D Measuring Amplifier	089909	SSD201808520 /2019-12-06(广东省院)	灵敏度：U=0.04dB,k=2 频率计权：U=0.20dB,k=2 线性计权： 2Hz～10Hz:U=0.11dB, 10Hz～50kHz:U=0.04dB,k=2 50kHz～200kHz:U=0.11dB,k=2
声校准器/4231 Acoustic Calibrator	3014336	SSD201808521 /2019-12-04(广东省院)	1级合格
消声箱/AWA188 Anechoic Chamber	080312	193605431 /2020-09-25(深计院)	U=0.8dB,k=2
信号发生器/AWA1650 Signal Generator	089943	SSD201903591 /2020-05-08	U_{rel}=0.1%,k=2
传声器/4192-L-001 Acoustic Calibrator	2996596	SSD201808579 /2019-12-10(广东省院)	20Hz～4kHz:U=0.2dB,k=2; 5kHz～20kHz:U=0.5dB,k=2

6. 校准地点、环境条件：
Place and environment condition during calibration

地点：	CTI力学3室	温度：	22.9 ℃	相对湿度：	56 %RH
Place:	CTI Mechanics Lab.(3)	Temperature:		RH：	

校准结果

RESULTS OF CALIBRATION

证书编号 WC19213911151Q07-02
Certificate No.

一、外观及工作正常性检查： 正常

Appearance and Performance checked: Normal

二、指示声压级调整（1000Hz）：

计权方式	声压级标准值(dB)	调校前声压级示值(dB)	调校后声压级示值(dB)	接受限(dB)
A	94	93.9	未调	93.7~ 94.3

三、频率计权的声信号实验（1000Hz/频率计权:A）：

声压级标准值(dB)	声压级指示值(dB)	误差(dB)	接受限(dB)
44	44.5	+0.5	43.2~ 44.8
54	54.4	+0.4	53.2~ 54.8
64	64.2	+0.2	63.2~ 64.8
74	73.9	-0.1	73.2~ 74.8
84	83.9	-0.1	83.2~ 84.8
94	93.9	-0.1	93.2~ 94.8
104	103.9	-0.1	103.2~ 104.8
114	114.0	0.0	113.2~ 114.8

四、自生噪声：

测试类型	频率计权	实测值(dB)
声信号	A	25.1
	A	20.2
电信号	C	30.5
	Z	31.4

校准结果

RESULTS OF CALIBRATION

证书编号 WC19213911151Q07-02
Certificate No.

五、级限性（频率1000Hz）： 起始点指示声级 90 dB

频率	测量项目	实测值(dB)	接受限(dB)
1000	起始点以上每间隔10dB最大误差	-0.1	± 0.3
	起始点以下每间隔10dB最大误差	0.0	± 0.3
	距上限5dB内每隔1dB最大偏差	+0.1	± 0.3
	距下限5dB内每隔1dB最大偏差	+0.1	± 0.3
8000	起始点以上每间隔10dB最大误差	-0.2	± 0.3
	起始点以下每间隔10dB最大误差	-0.1	± 0.3
	距上限5dB内每隔1dB最大偏差	0.0	± 0.3
	距下限5dB内每隔1dB最大偏差	+0.1	± 0.3

六、频率计权：

1、A计权

频率(Hz)	A计权标准值(dB)	A计权响应(dB)	接受限(dB)
10	-70.4	-71.2	-67.4 ~ ∞
20	-50.5	-50.8	-48.5 ~ -52.5
31.5	-39.4	-39.7	-37.9 ~ -40.9
63	-26.2	-26.3	-25.2 ~ -27.2
125	-16.1	-16.2	-15.1 ~ -17.1
250	-8.6	-8.7	-7.6 ~ -9.6
500	-3.2	-3.3	-2.2 ~ -4.2
1000	0.0	0.0	+0.7 ~ -0.7
2000	+1.2	+1.3	+2.2 ~ +0.2
4000	+1.0	+1.3	+2.0 ~ 0.0
8000	-1.1	-0.4	+0.4 ~ -3.6
16000	-6.6	-9.6	-4.1 ~ -22.6
20000	-9.3	-21.2	-6.3 ~ ∞

校准结果

RESULTS OF CALIBRATION

证书编号 WC19213911151Q07-02
Certificate No.

2、C计权

频率(Hz)	C计权标准值(dB)	C计权响应(dB)	接受限(dB)
10	-14.3	-15.6	-11.3 ~ ∞
20	-6.2	-6.5	-4.2 ~ -8.2
31.5	-3.0	-3.2	-1.5 ~ -4.5
63	-0.8	-0.8	+0.2 ~ -1.8
125	-0.2	-0.2	+0.8 ~ -1.2
250	0.0	0.0	+1.0 ~ -1.0
500	0.0	0.0	+1.0 ~ -1.0
1000	0.0	0.0	+0.7 ~ -0.7
2000	-0.2	-0.1	+0.8 ~ -1.2
4000	-0.8	-0.5	+0.2 ~ -1.8
8000	-3.0	-2.3	-1.5 ~ -4.5
16000	-8.5	-11.5	-6.0 ~ -24.5
20000	-11.2	-23.1	-8.2 ~ ∞

3、Z计权

频率(Hz)	Z计权标准值(dB)	Z计权响应(dB)	接受限(dB)
10	0.0	-1.3	+3.0 ~ ∞
20	0.0	-0.4	+2.0 ~ -2.0
31.5	0.0	-0.2	+1.5 ~ -1.5
63	0.0	-0.1	+1.5 ~ -1.5
125	0.0	0.0	+1.0 ~ -1.0
250	0.0	0.0	+1.0 ~ -1.0
500	0.0	0.0	+1.0 ~ -1.0
1000	0.0	0.0	+0.7 ~ -0.7
2000	0.0	0.0	+1.0 ~ -1.0
4000	0.0	0.0	+1.0 ~ -1.0
8000	0.0	0.0	+1.5 ~ -2.5
16000	0.0	+0.1	+2.5 ~ -16.0
20000	0.0	-0.2	+3.0 ~ ∞

校准结果

RESULTS OF CALIBRATION

证书编号 WC19213911151Q07-02
Certificate No.

七、1kHz处的频率计权：

A计权参考声级(dB)	C频率计权相对A频率计权的偏差(dB)	Z频率计权相对A频率计权的偏差(dB)	接受限(dB)
94	0.0	0.0	±0.2

八、F和S时间计权：

衰减速率(dB/s)	实测值(dB/s)	接受限(dB/s)
快(F)计权	34.6	31.0~38.5
慢(S)计权	4.4	3.6~5.1

九、猝发音响应（A计权）：

猝发音持续时间(ms)	L_{AFmax}-L_A标准值	L_{AFmax}-L_A指示值	接受限(dB)
200	-1.0	-1.0	-0.5~-1.5
2	-18.0	-18.2	-17.0~-18.5
0.25	-27.0	-27.4	-26.0~-30.0

猝发音持续时间(ms)	L_{ASmax}-L_A标准值	L_{SFmax}-L_A指示值	接受限(dB)
200	-7.4	-7.4	-6.9~-7.9
2	-27.0	-27.1	-26.0~-30.0

校准结果

RESULTS OF CALIBRATION

证书编号 WC19213911151Q07-02
Certificate No.

说明(Notes):

1、依据JJF1059.1-2012测量不确定度评定与表示，本次校准结果的扩展不确定度为：

10Hz~200Hz：U=0.5dB，k=2；250Hz~1.25kHz：U=0.4dB，k=2；

1.6kHz~10kHz：U=0.4dB，k=2；12.5kHz~20kHz：U=0.6dB，k=2

According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement，Expanded uncertainty of measurement： 10Hz~200Hz：U=0.5dB，k=2；250Hz~1.25kHz：U=0.4dB，k=2；

1.6kHz~10kHz：U=0.4dB，k=2；12.5kHz~20kHz：U=0.6dB，k=2

2、校准项目符合1级技术要求

The calibrated items are accord with class 1 technical specifications

3、仪器配传声器型号：AWA14425； 传声器编号：15386

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校 准 报 告

CALIBRATION REPORT

报告编号：193605636

客户名称 Name of Customer ： 上峰检测认证有限公司

客户地址 Address of Customer ： /

计量器具名称 Name of Instrument： 多声级声校准器

器具用途 Use of Instrument ： --------

型号/规格 Type/Specification ： ND9

出厂编号 Serial № ： 507258

资产编号 Asset № ： 未标明

制造单位 Manufacturer ： 未标明

校准依据 Calibrated in Accordance to ： JJG 176-2005 声校准器

(校准专用章) Stamp

校准日期 Operation Date ： 2019 年 10 月 15 日 (Year Month Day)

建议复校日期 Suggested Recal.Date： 2020 年 10 月 14 日 (Year Month Day)

签发日期 Issue Date ： 2019 年 10 月 15 日 (Year Month Day)

批准人 Authorized by ： 张国庆(副所长)

签名 Signature ： 张国庆

核验员 Checked by ： 张瑞玫

校准员 Calibrated by ： 朱梦逸

校准机构备案号：[2012]粤量校F002号
地址：广东省深圳市南山区龙珠大道92号
电话：0086-755-26941696 0086-755-26941546
传真：0086-755-26941615 0086-755-26941547
邮编：518055 网址：www.smq.com.cn
电子邮件：kfzx@smq.com.cn

Register No.: [2012]粤量校F002号
Add:No.92, Longzhu Avenue, Nanshan District, Shenzhen, Guangdong, China
Nanshan District,Shenzhen
Tel:0086-755-26941696 0086-755-26941546
Fax:0086-755-26941615 0086-755-26941547
Post Code:518055 http://www.smq.com.cn
E-mail:kfzx@smq.com.cn

校准报告
CALIBRATION REPORT

报告编号：193605636
Report №

校准用主要计量标准装置信息
Main Standard Devices Used

名称 Equipment Name	测量范围 Measuring Range	不确定度/准确度等级/最大允许误差 Uncertainty/Accuracy Class/Maximum Permissible Error	计量标准考核证书号 Certificate №	有效期至 Due Date
声校准器检定装置	频率范围：（31.5Hz～16kHz），声压级：（30～140）dB	声压级：U = 0.20 dB，k = 2（31.5 Hz ～ <160 Hz）U = 0.15 dB，k = 2（160 Hz ～ 1250 Hz）	[2011]粤量标鹏法证字第096号	2022-09-16

校准用主要标准器信息
Main Standards of Measurement Used

名称 Equipment Name	测量范围 Measuring Range	不确定度/准确度等级/最大允许误差 Uncertainty/Accuracy Class/Maximum Permissible Error	设备编号 Equipment №	证书号/溯源单位 Certificate №/Traceability to	有效期至 Due Date
1/2″ 标准电容传声器	(20~20k)Hz	U=0.05dB, k=2	SB5199	LSae2019-2400/中国计量院	2020-05-28
活塞发声器	251.2Hz，124dB	LS级	SB5198	LSae2019-2326/中国计量院	2020-05-26

附加说明
Appended Directions

委托日期：
Application Date
2019 年 10 月 12 日

校准地点：
Operation Location
本院声学龙珠实验室

环境条件：
Operation Environment
温度 25 ℃ 相对湿度 61 %

符合性及限制使用说明：
Statement of Compliance and Limitation
参见校准结果

校准报告
CALIBRATION REPORT

校准结果
Results of Calibration

1 外观检查： 正常

Appearance Check: Pass

2 声压级：见表1

Sound Pressure Level: See Table 1

表1 Table 1

声压级标称值 Nominal SPL (dB)	声压级实测值 Measured SPL (dB)	误差 Error (dB)	最大允许误差 M.P.E. (dB)
94	94.2	-0.2	±0.4（1级）
114	114.4	-0.4	±0.4（1级）

3 频率：见表2

Frequency: see Table 2

表2 Table 2

频率标称值 Nominal Freq. (Hz)	频率实测值 Measured Freq. (Hz)	误差 Error (%)	最大允许误差 M.P.E. (%)
1000	1000.0	0.0	±1.0（1级）

校准报告
CALIBRATION REPORT

校准结果
Results of Calibration

4 总失真：见表3

Total Distortion: See Table 3

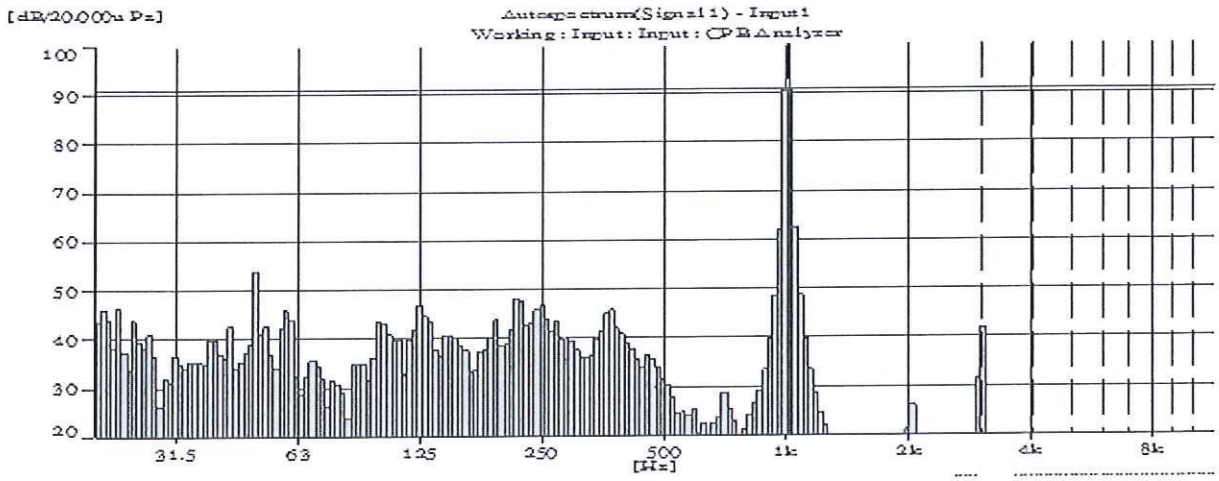
表3 Table 3

标称频率 Nominal Freq. (Hz)	标称声压级 Nominal SPL (dB)	总失真 Total Distortion (%)	允许范围 Limit (%)
1000	94	0.24	≤3.0（1级）
1000	114	0.96	≤3.0（1级）

5 标称声压级的1/24 OCT窄带滤波频率分析实测图

1/24 OCT Frequency Spectrum of Nominal SPL

5.1 94 dB:

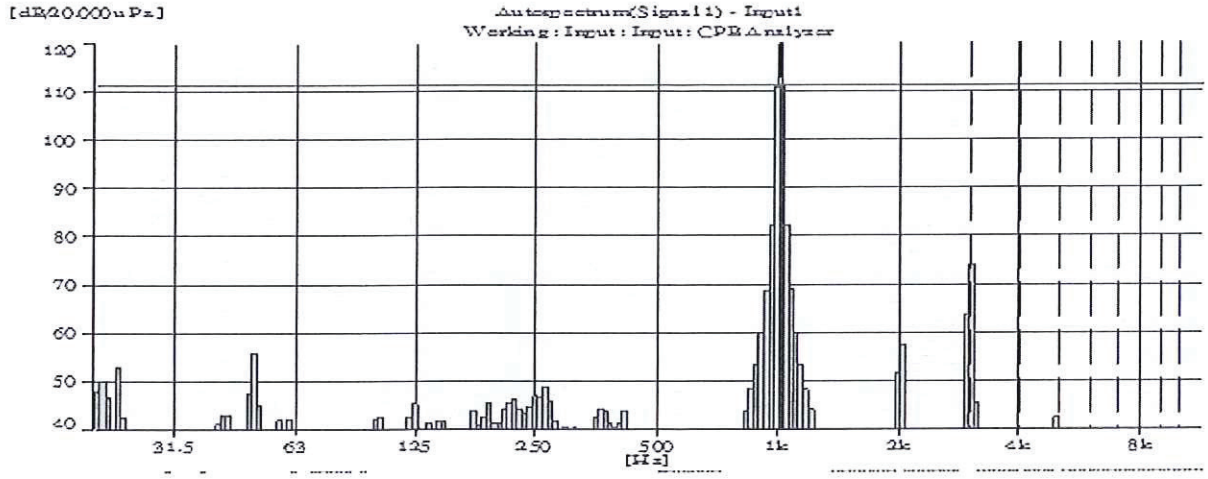


校准报告
CALIBRATION REPORT

报告编号：193605636
Report №

校准结果
Results of Calibration

5.2 114 dB:



附注（Note）：

声压级测量结果扩展不确定度：U = 0.15 dB, k = 2

（依据JJF1059.1-2012测量不确定度评定及表示）

Related Expanded Uncertainty of SPL: U = 0.15 dB, k = 2

(By JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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Appendix 5 BASELINE MONITORING RESULTS

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

24-HOURS TSP DATA

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

Test Report Summary
Total Suspendended Particulates (TSP) Monitoring

Report No.: BF20082651 **Date:** 26-Aug-2020
Location: AM5A North of West Kowloon Station's station box (G/F)
Client: Bachy Soletanche – Fujita Corporation Joint Venture
Project: Foundation and Excavation and Lateral Support Works for Integrated Basemer and Underground Road in Zones 2A at West Kowloon Cultural District

Result:

Day	Sampling Date	Period	Sample ID	Result (µg/m3)
1	8-Aug-2020	24-hour	200808501	16.3
2	9-Aug-2020	24-hour	200808502	16.0
3	10-Aug-2020	24-hour	200808503	12.9
4	11-Aug-2020	24-hour	200808504	19.6
5	12-Aug-2020	24-hour	200808505	22.2
6	13-Aug-2020	24-hour	200808506	22.6
7	14-Aug-2020	24-hour	200808507	12.6
8	15-Aug-2020	24-hour	200808508	11.1
9	16-Aug-2020	24-hour	200808509	14.7
10	17-Aug-2020	24-hour	200808510	15.5
11	18-Aug-2020	24-hour	200808511	24.1
12	19-Aug-2020	24-hour	200808512	16.2
13	20-Aug-2020	24-hour	200808513	9.9
14	21-Aug-2020	24-hour	200808514	21.3
15	22-Aug-2020	24-hour	200808515	23.0
16	23-Aug-2020	24-hour	200808516	22.1

Note:
1. µg/m3 denotes microgram per cubic metre
2. TSP denotes total suspended particulates
3. Monitoring data on 18 and 19 August 2020 are provided for reference only

東恒測試顧問有限公司
AQUALITY TESTCONSULT LIMITED

Filter Paper Analytical Results

Client Bachy Soletanche – Fujita Corporation Joint Venture

Address RM 03-06, 15/F, Wing On Kowloon Centre, 345 Nathan Road, Kowloon

Project Foundation and Excavation and Lateral Support Works for Integrated Basemen and Underground Road in Zones 2A at West Kowloon Cultural District

Date Received 2020/8/24
Date of Issue 2020/8/26
No. of Samples 16
Work Order 200808501 - 200808516

Sample ID	Date	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
200808501	2020/8/8	2.8015	2.8277	0.0262
200808502	2020/8/9	2.8090	2.8347	0.0257
200808503	2020/8/10	2.8034	2.8242	0.0208
200808504	2020/8/11	2.8045	2.8361	0.0316
200808505	2020/8/12	2.8058	2.8416	0.0358
200808506	2020/8/13	2.8021	2.8384	0.0363
200808507	2020/8/14	2.8051	2.8254	0.0203
200808508	2020/8/15	2.8080	2.8259	0.0179
200808509	2020/8/16	2.8031	2.8268	0.0237
200808510	2020/8/17	2.8015	2.8264	0.0249
200808511	2020/8/18	2.8017	2.8405	0.0388
200808512	2020/8/19	2.8049	2.8310	0.0261
200808513	2020/8/20	2.8020	2.8179	0.0159
200808514	2020/8/21	2.8011	2.8354	0.0343
200808515	2020/8/22	2.8034	2.8404	0.0371
200808516	2020/8/23	2.8015	2.8371	0.0356

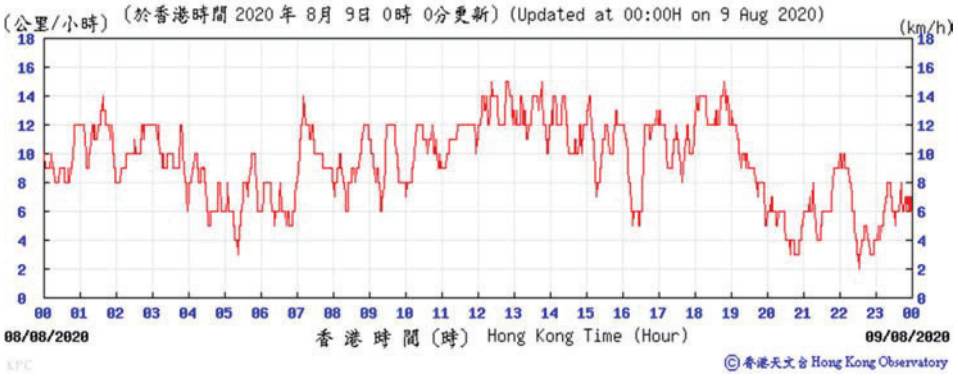
Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

香港新界粉嶺坪輋路啟芳園11B號
No.11B,Kai Fong Garden,Ping Che Road, Fanling,New Territories,Hong Kong
TEL: (+852) 2674 0478 FAX: (+852) 2674 1177

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808501
Date & Time of Sampling		8/8/2020
Elapsed-time Meter Reading	Start (hr)	1083.6
	Stop (hr)	1107.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1005.6
	Ti (^{0}C)	30.5
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1004.1
	Ti (^{0}C)	29.9
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808501
Initial Wt. of Filter Paper (g)		2.8015
Final Wt. of Filter Paper (g)		2.8277
Measured TSP Level (ug/m^3)		16.3
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

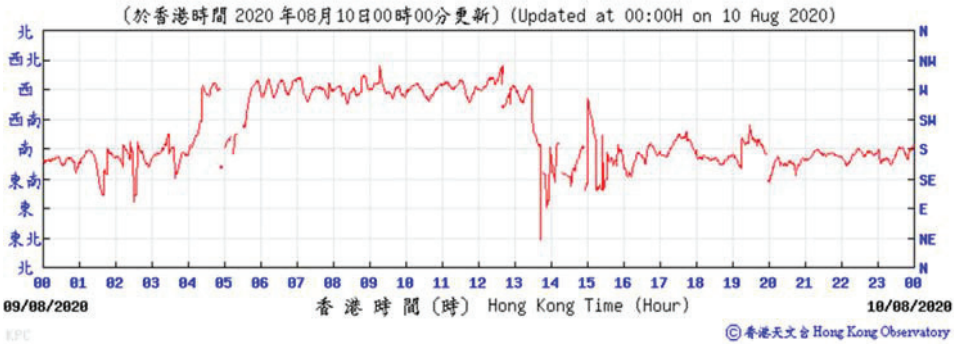
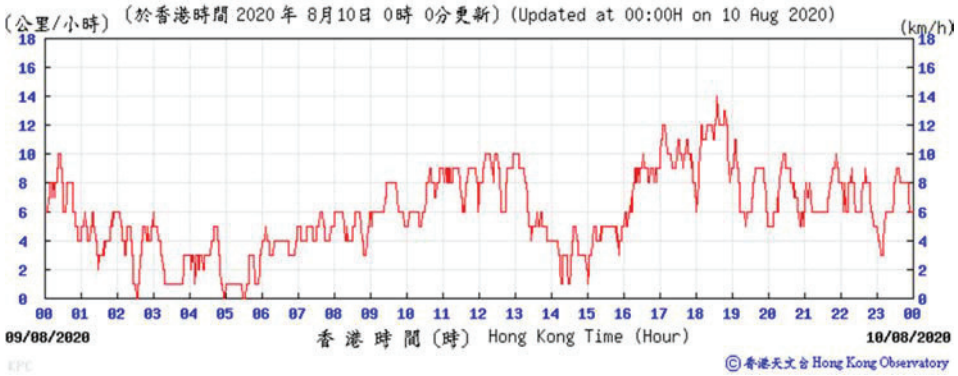
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/8
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808502
Date & Time of Sampling		9/8/2020
Elapsed-time Meter Reading	Start (hr)	1107.6
	Stop (hr)	1131.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1004.1
	Ti (^{0}C)	29.9
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1004.3
	Ti (^{0}C)	30.0
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808502
Initial Wt. of Filter Paper (g)		2.8090
Final Wt. of Filter Paper (g)		2.8347
Measured TSP Level (ug/m^3)		16.0
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

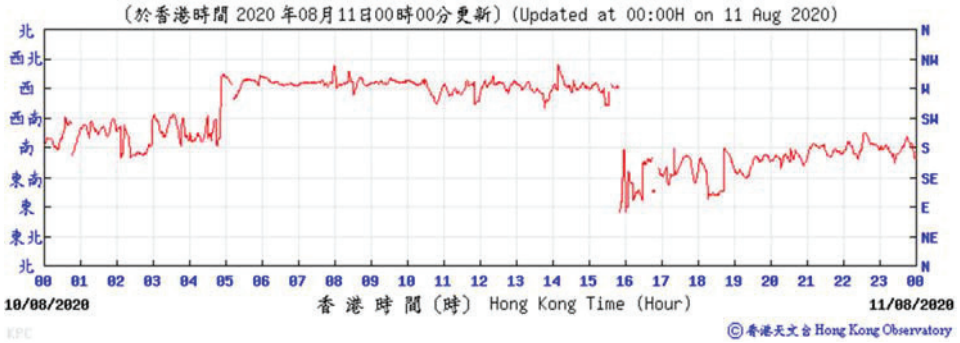
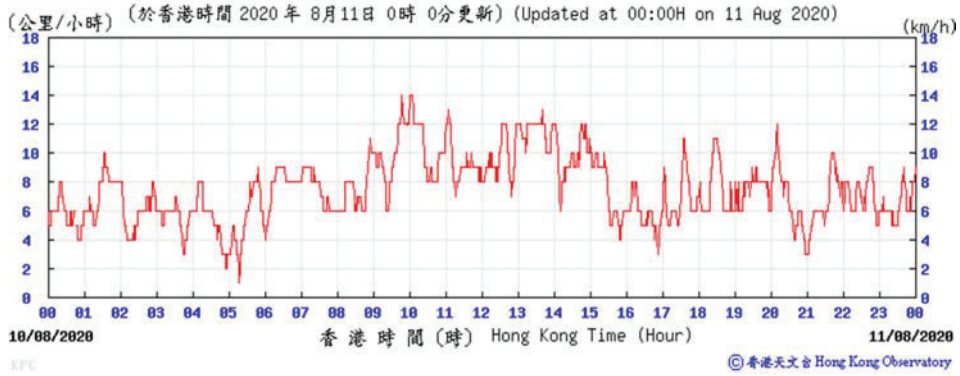
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/9
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808503
Date & Time of Sampling		10/8/2020
Elapsed-time Meter Reading	Start (hr)	1131.6
	Stop (hr)	1155.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1004.3
	Ti (^{0}C)	30.0
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1006.3
	Ti (^{0}C)	30.3
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808503
Initial Wt. of Filter Paper (g)		2.8034
Final Wt. of Filter Paper (g)		2.8242
Measured TSP Level (ug/m^3)		12.9
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

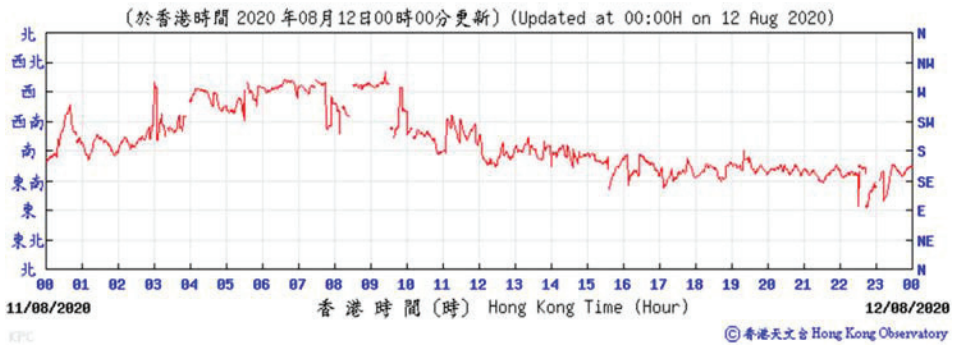
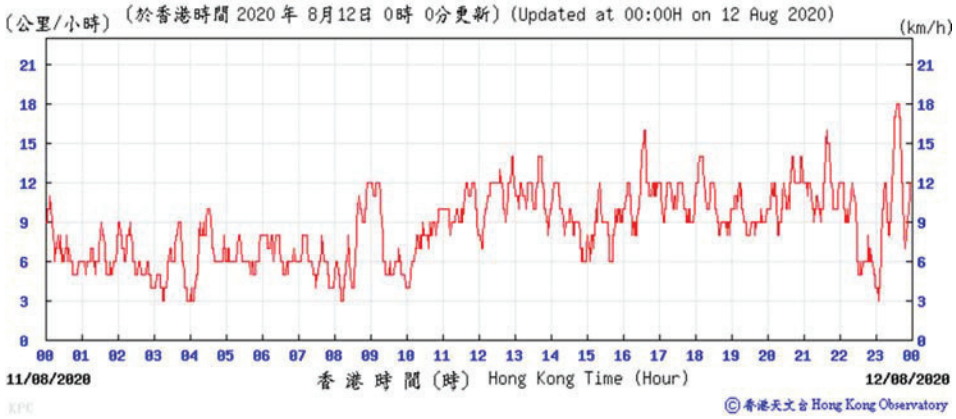
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/10
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808504
Date & Time of Sampling		11/8/2020
Elapsed-time Meter Reading	Start (hr)	1155.6
	Stop (hr)	1179.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Cloudy
Rainfall (mm)		0 - 0.5
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1006.3
	Ti (^{0}C)	30.3
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1010.4
	Ti (^{0}C)	27.8
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808504
Initial Wt. of Filter Paper (g)		2.8045
Final Wt. of Filter Paper (g)		2.8361
Measured TSP Level (ug/m^3)		19.6
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

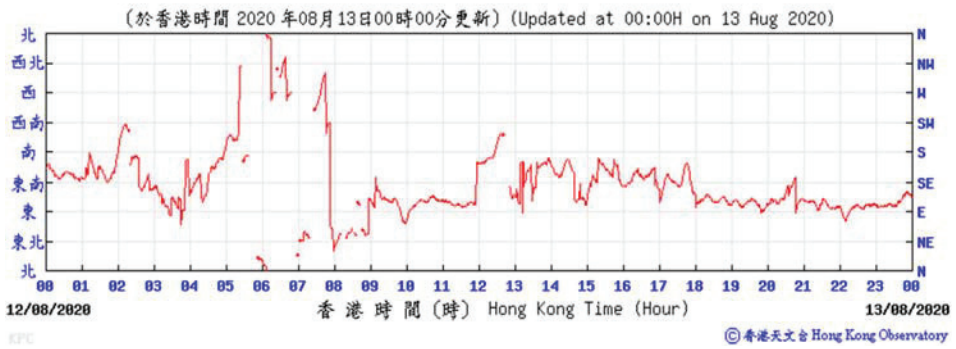
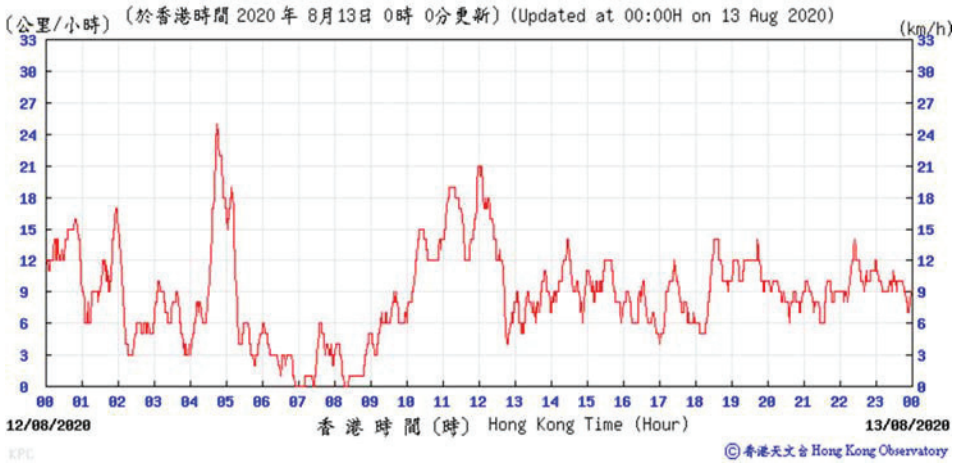
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/11
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808505
Date & Time of Sampling		12/8/2020
Elapsed-time Meter Reading	Start (hr)	1179.6
	Stop (hr)	1203.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Rainy over 20:00-00:00 and 02:00-06:00
Rainfall (mm)		20 - 30
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1010.4
	Ti (^{0}C)	27.8
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1011.0
	Ti (^{0}C)	28.1
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808505
Initial Wt. of Filter Paper (g)		2.8058
Final Wt. of Filter Paper (g)		2.8416
Measured TSP Level (ug/m^3)		22.2
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

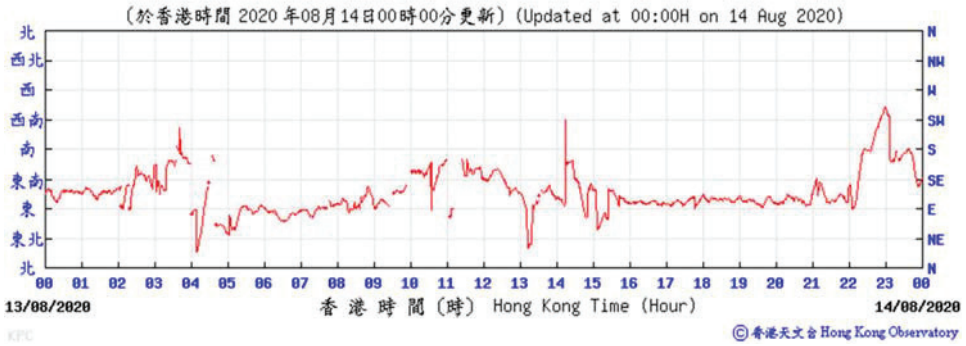
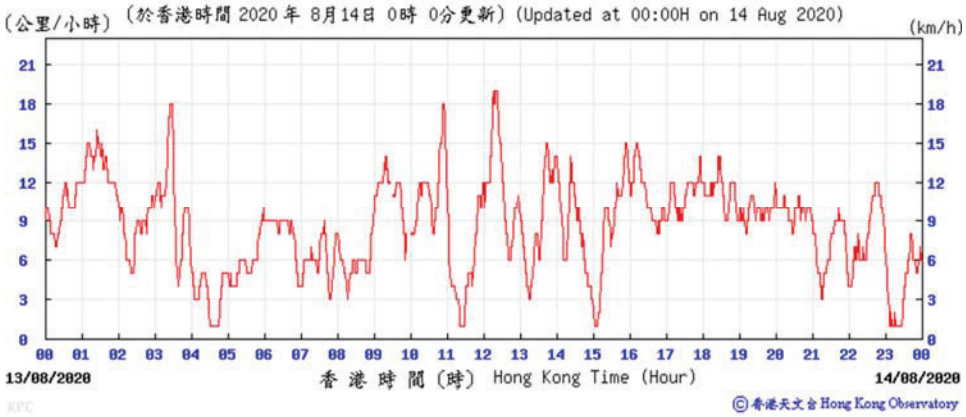
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/12
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808506
Date & Time of Sampling		13/8/2020
Elapsed-time Meter Reading	Start (hr)	1203.6
	Stop (hr)	1227.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Cloudy
Rainfall (mm)		10 - 20
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1011.0
	Ti (^{0}C)	28.1
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1009.7
	Ti (^{0}C)	29.3
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808506
Initial Wt. of Filter Paper (g)		2.8021
Final Wt. of Filter Paper (g)		2.8384
Measured TSP Level (ug/m^3)		22.6
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

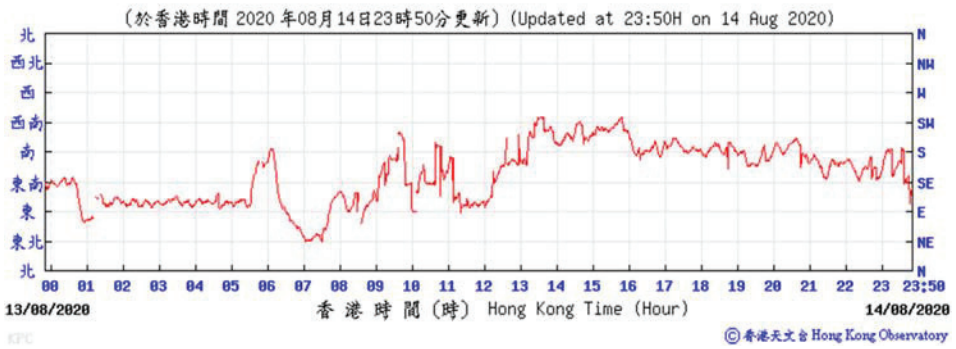
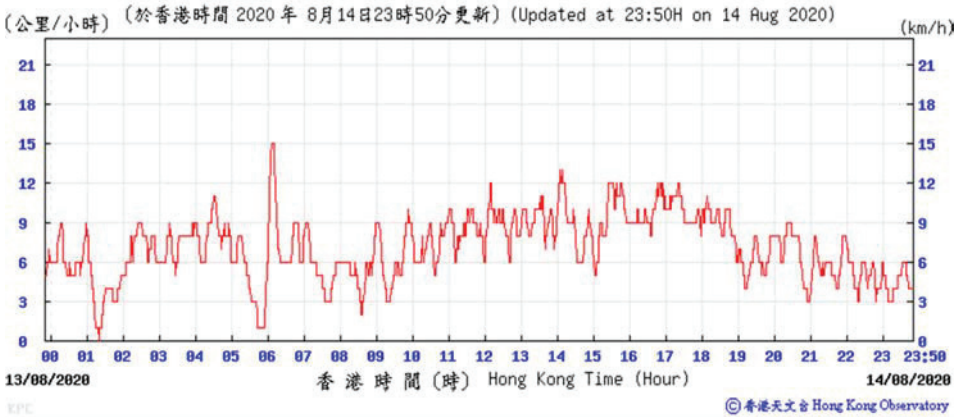
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/13
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808507
Date & Time of Sampling		14/8/2020
Elapsed-time Meter Reading	Start (hr)	1227.6
	Stop (hr)	1251.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Cloudy
Rainfall (mm)		5 - 10
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1009.7
	Ti (^{0}C)	29.3
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1008.6
	Ti (^{0}C)	29.8
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808507
Initial Wt. of Filter Paper (g)		2.8051
Final Wt. of Filter Paper (g)		2.8254
Measured TSP Level (ug/m^3)		12.6
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

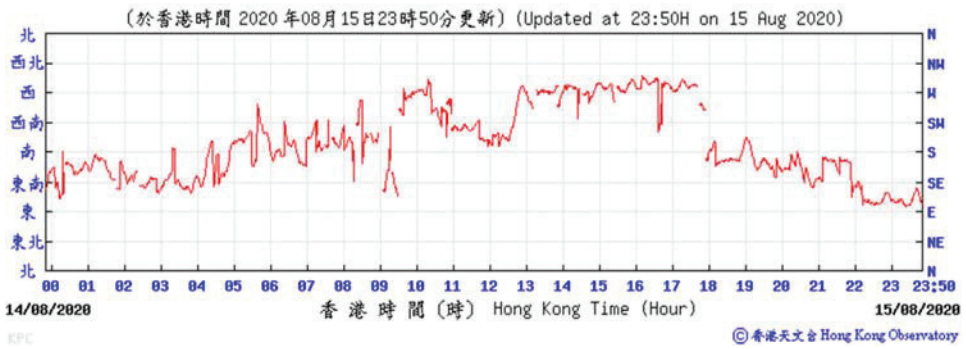
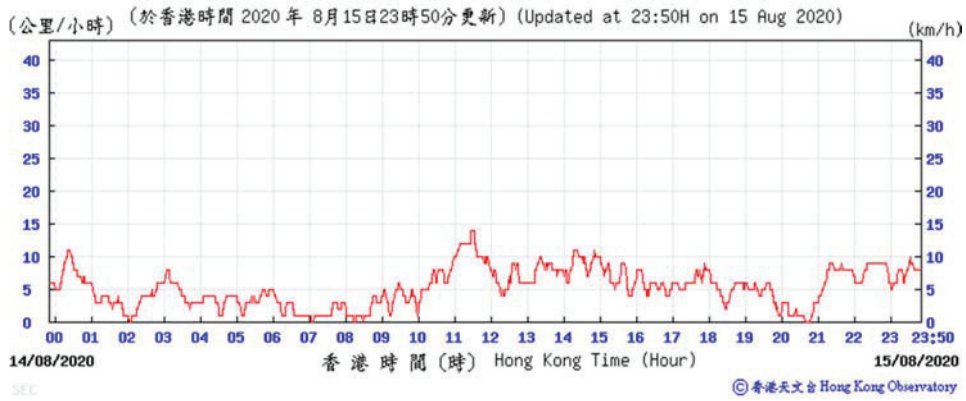
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/14
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808508
Date & Time of Sampling		15/8/2020
Elapsed-time Meter Reading	Start (hr)	1251.6
	Stop (hr)	1275.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0 - 0.5
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1008.6
	Ti (^{0}C)	29.8
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1008.6
	Ti (^{0}C)	30.1
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808508
Initial Wt. of Filter Paper (g)		2.8080
Final Wt. of Filter Paper (g)		2.8259
Measured TSP Level (ug/m^3)		11.1
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

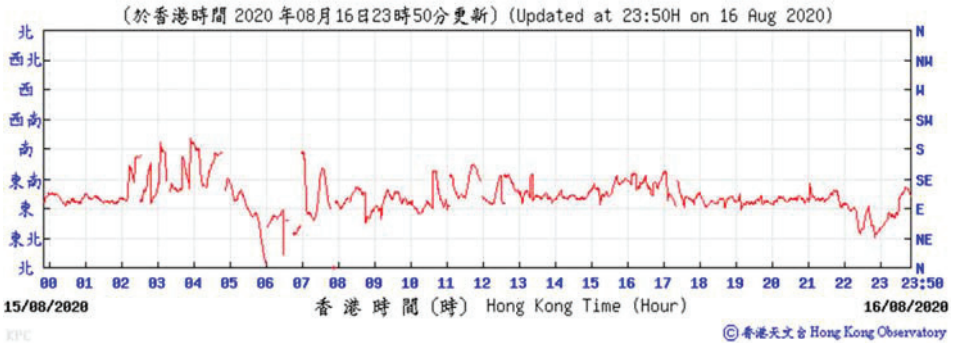
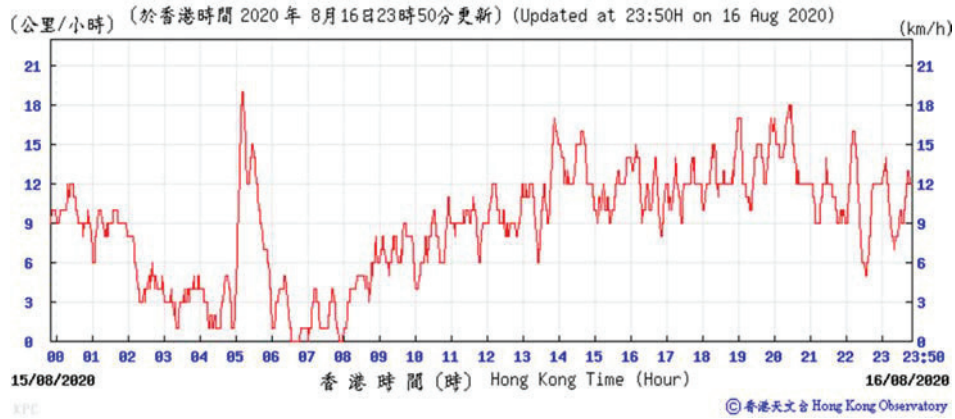
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/15
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808509
Date & Time of Sampling		16/8/2020
Elapsed-time Meter Reading	Start (hr)	1275.6
	Stop (hr)	1299.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0.5 - 2
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1008.6
	Ti (^{0}C)	30.1
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1008.5
	Ti (^{0}C)	28.2
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808509
Initial Wt. of Filter Paper (g)		2.8031
Final Wt. of Filter Paper (g)		2.8268
Measured TSP Level (ug/m^3)		14.7
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

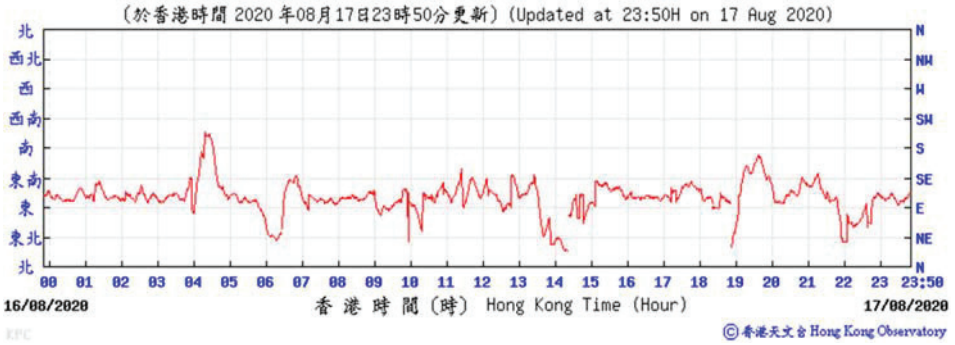
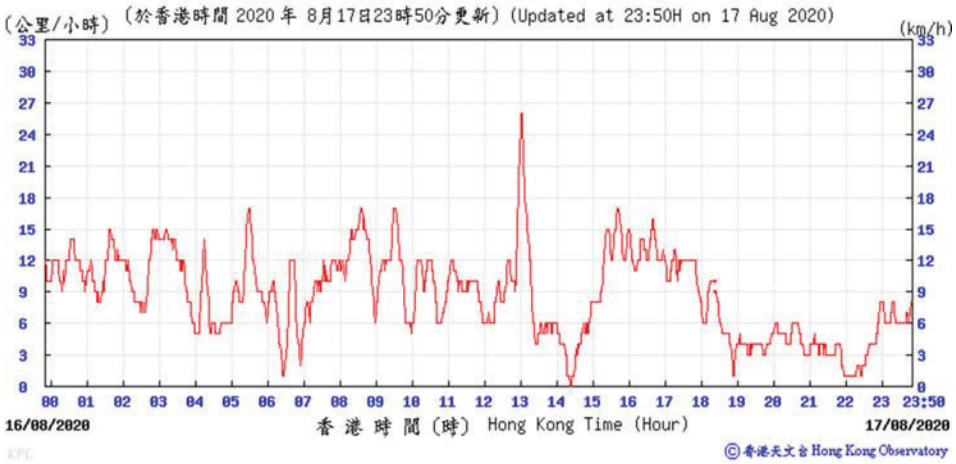
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/16
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808510
Date & Time of Sampling		17/8/2020
Elapsed-time Meter Reading	Start (hr)	1299.6
	Stop (hr)	1323.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Cloudy
Rainfall (mm)		10 - 20
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1008.5
	Ti (^{0}C)	28.2
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1006.2
	Ti (^{0}C)	27.3
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808510
Initial Wt. of Filter Paper (g)		2.8015
Final Wt. of Filter Paper (g)		2.8264
Measured TSP Level (ug/m^3)		15.5
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

Data Record Sheet for TSP Monitoring

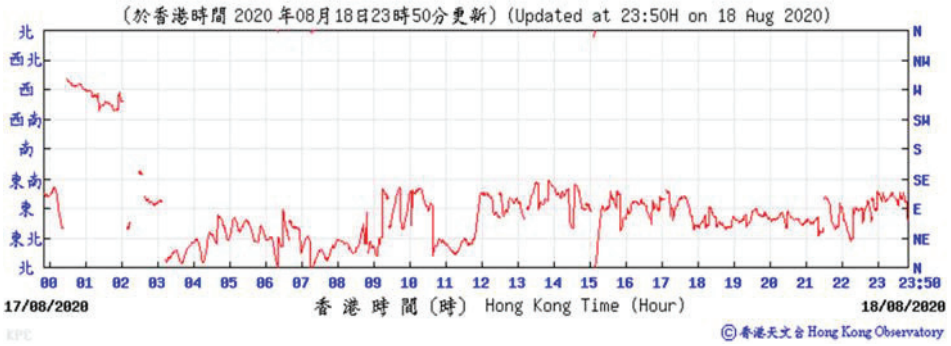
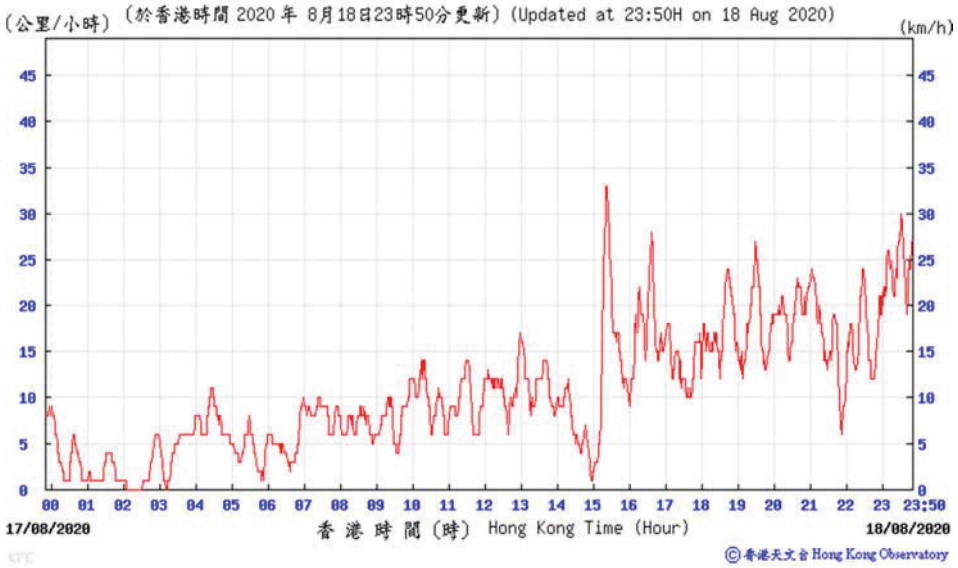
Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/17
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808511
Date & Time of Sampling		18/8/2020
Elapsed-time Meter Reading	Start (hr)	1323.6
	Stop (hr)	1347.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Rainy
Rainfall (mm)		50 - 70
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1006.2
	Ti (^{0}C)	27.3
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1006.0
	Ti (^{0}C)	26.6
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808511
Initial Wt. of Filter Paper (g)		2.8017
Final Wt. of Filter Paper (g)		2.8405
Measured TSP Level (ug/m^3)		24.1
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/18
Wind Direction	
Wind Speed	

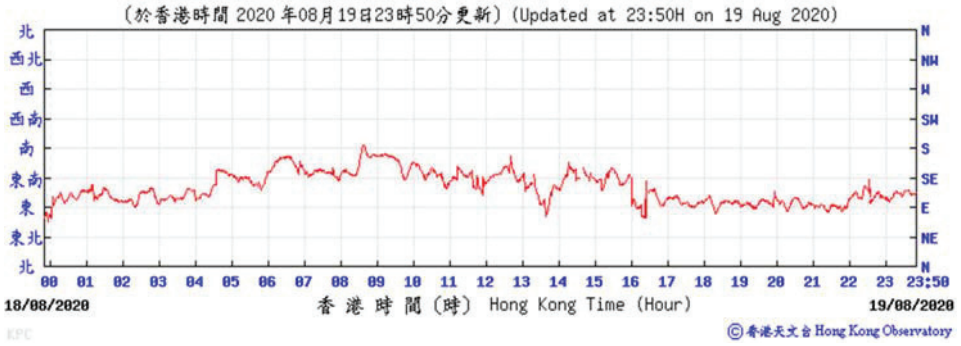
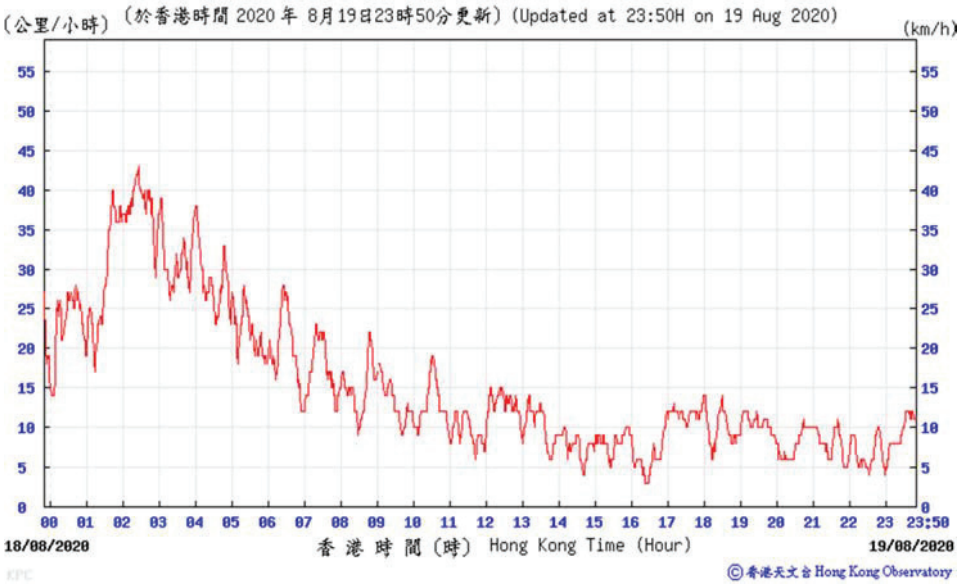
Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808512
Date & Time of Sampling		19/8/2020
Elapsed-time Meter Reading	Start (hr)	1347.6
	Stop (hr)	1371.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Rainy
Rainfall (mm)		70 - 100
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1006.0
	Ti (^{0}C)	26.6
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1009.1
	Ti (^{0}C)	29.0
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808512
Initial Wt. of Filter Paper (g)		2.8049
Final Wt. of Filter Paper (g)		2.8310
Measured TSP Level (ug/m^3)		16.2
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

Data Record Sheet for TSP Monitoring

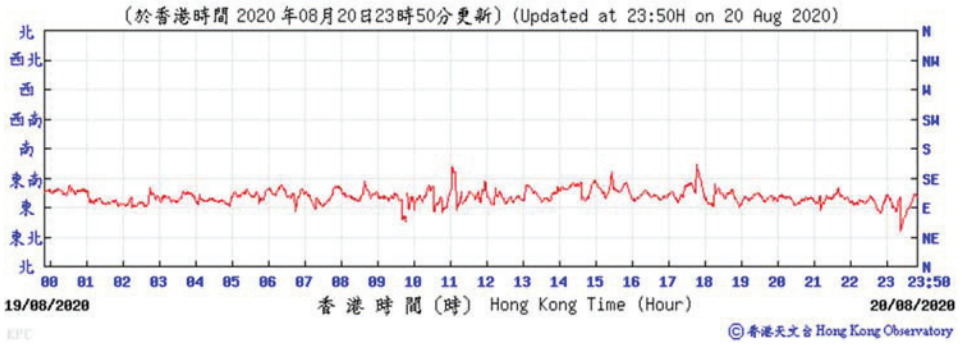
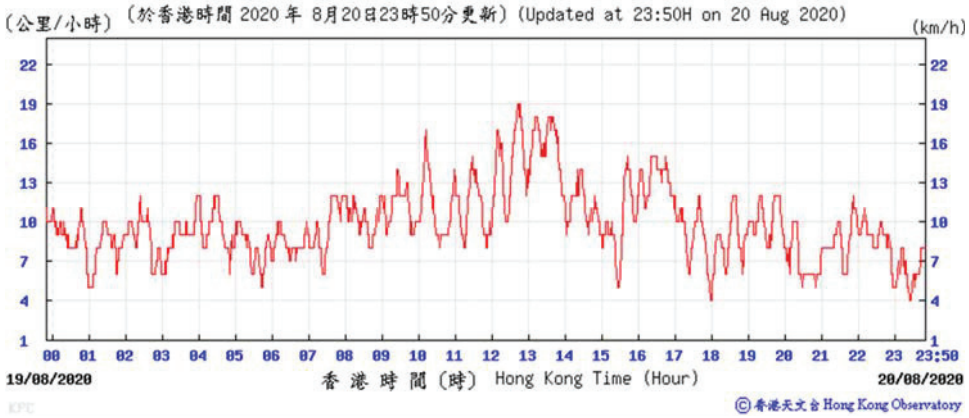
Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/19
Wind Direction	
Wind Speed	

Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808513
Date & Time of Sampling		20/8/2020
Elapsed-time Meter Reading	Start (hr)	1371.6
	Stop (hr)	1395.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0 - 0.5
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1009.1
	Ti (^{0}C)	29.0
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1009.0
	Ti (^{0}C)	29.8
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808513
Initial Wt. of Filter Paper (g)		2.8020
Final Wt. of Filter Paper (g)		2.8179
Measured TSP Level (ug/m^3)		9.9
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

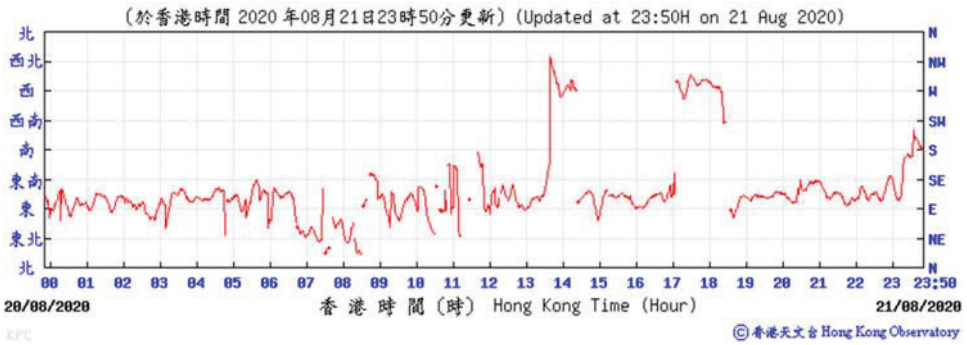
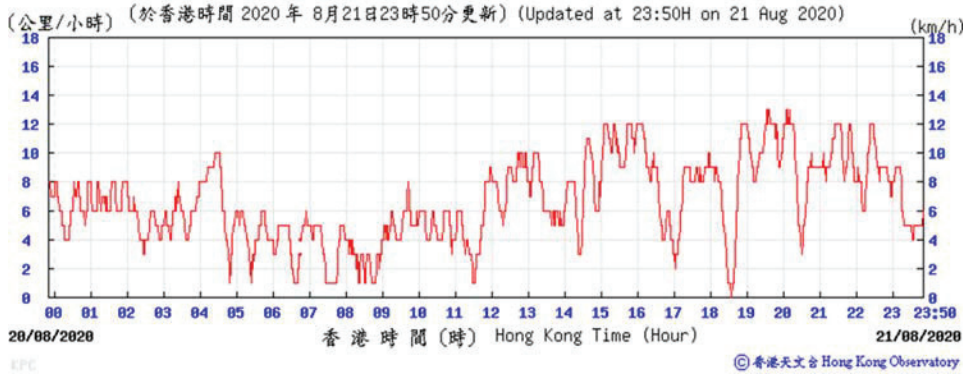
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/20
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808514
Date & Time of Sampling		21/8/2020
Elapsed-time Meter Reading	Start (hr)	1395.6
	Stop (hr)	1419.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0 - 0.5
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1009.0
	Ti (^{0}C)	29.8
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1008.2
	Ti (^{0}C)	29.7
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808514
Initial Wt. of Filter Paper (g)		2.8011
Final Wt. of Filter Paper (g)		2.8354
Measured TSP Level (ug/m^3)		21.3
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

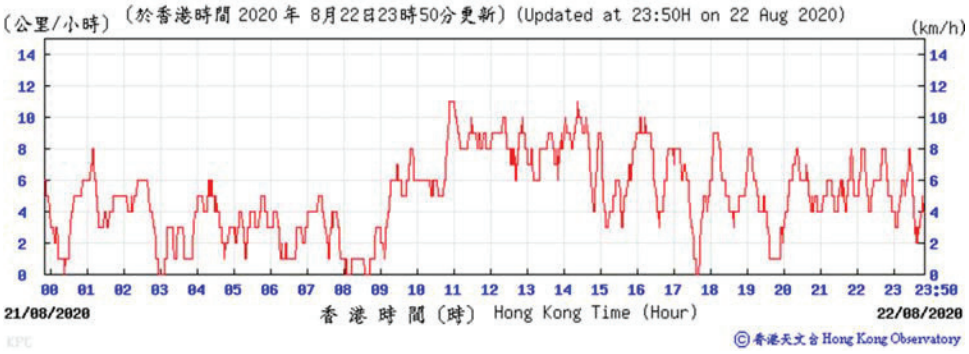
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/21
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808515
Date & Time of Sampling		22/8/2020
Elapsed-time Meter Reading	Start (hr)	1419.6
	Stop (hr)	1443.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1008.2
	Ti (^{0}C)	29.7
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1006.8
	Ti (^{0}C)	29.8
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808515
Initial Wt. of Filter Paper (g)		2.8034
Final Wt. of Filter Paper (g)		2.8404
Measured TSP Level (ug/m^3)		23.0
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

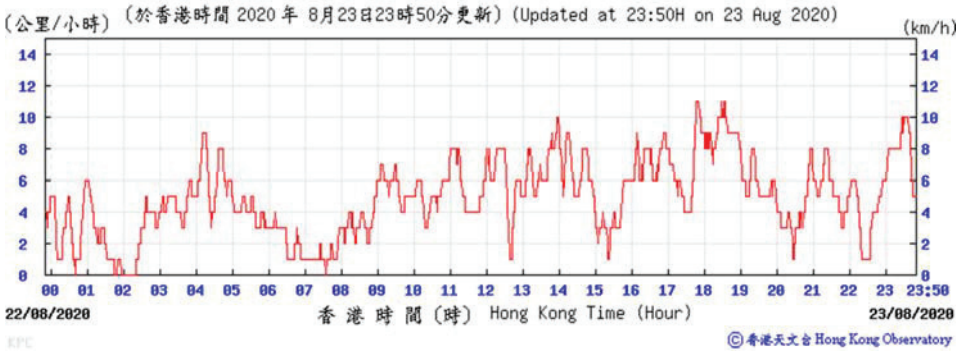
Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/22
Wind Direction	
Wind Speed	

Data Record Sheet for TSP Monitoring

Monitoring Location		AM5A North of West Kowloon Station's station box (G/F)
Details of Location		AM5A North of West Kowloon Station's station box (G/F)
Sample Identification		200808516
Date & Time of Sampling		23/8/2020
Elapsed-time Meter Reading	Start (hr)	1443.6
	Stop (hr)	1467.6
Total Sampling Time (hr)		24.0
Weather Conditions (Sunny / Fine / Cloudy / Rainy)		Fine
Rainfall (mm)		0
Site Conditions		
Initial Flow Rate, Qsi	Pi (hpa)	1006.8
	Ti (^{0}C)	29.8
	Hi (cfm)	40.0
	Qsi (Std. m^3)	1.13
Final Flow Rate, Qsi	Pi (hpa)	1005.1
	Ti (^{0}C)	30.2
	Hi (cfm)	39.0
	Qsi (Std. m^3)	1.10
Average Flow Rate (Std. m^3)		1.12
Total Volume (Std. m^3)		1609.70
Filter Paper Identification No.		200808516
Initial Wt. of Filter Paper (g)		2.8015
Final Wt. of Filter Paper (g)		2.8371
Measured TSP Level (ug/m^3)		22.1
Other Dust Emission Source(s) Observed		Nil
Remarks /Other Observations		Nil

Data Record Sheet for TSP Monitoring

Sample Identification	AM5A North of West Kowloon Station's station box (G/F)
Date & Time of Samplin	2020/8/23
Wind Direction	
Wind Speed	

1-HOURS TSP DATA

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RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	08-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:09	15:09	16:09
	Finish	15:09	16:09	17:09
Measured 1-hour TSP(μg/m3)		44	50	43
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		08-08-2020
Checked by	Calvin Lui		08-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	09-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:20	15:20	16:20
	Finish	15:20	16:20	17:20
Measured 1-hour TSP(μg/m3)		46	47	42
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		09-08-2020
Checked by	Calvin Lui		09-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	10-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:30	09:30	10:30
	Finish	09:30	10:30	11:30
Measured 1-hour TSP(μg/m3)		33	38	45
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		10-08-2020
Checked by	Calvin Lui		10-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	11-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:27	15:27	16:27
	Finish	15:27	16:27	17:27
Measured 1-hour TSP(μg/m3)		44	39	42
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		11-08-2020
Checked by	Calvin Lui		11-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	12-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:03	09:03	10:03
	Finish	09:03	10:03	11:03
Measured 1-hour TSP(μg/m3)		36	40	48
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		12-08-2020
Checked by	Calvin Lui		12-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	13-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:26	09:26	10:26
	Finish	09:26	10:26	11:26
Measured 1-hour TSP(μg/m3)		39	45	37
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		13-08-2020
Checked by	Calvin Lui		13-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	14-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:06	15:06	16:06
	Finish	15:06	16:06	17:06
Measured 1-hour TSP(μg/m3)		45	48	39
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		14-08-2020
Checked by	Calvin Lui		14-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	15-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:02	15:02	16:02
	Finish	15:02	16:02	17:02
Measured 1-hour TSP(μg/m3)		36	31	40
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		15-08-2020
Checked by	Calvin Lui		15-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	16-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:30	15:30	16:30
	Finish	15:30	16:30	17:30
Measured 1-hour TSP(μg/m3)		45	34	48
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		16-08-2020
Checked by	Calvin Lui		16-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	17-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:06	09:06	10:06
	Finish	09:06	10:06	11:06
Measured 1-hour TSP(μg/m3)		29	34	38
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		17-08-2020
Checked by	Calvin Lui		17-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	18-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:09	09:09	10:09
	Finish	09:09	10:09	11:09
Measured 1-hour TSP(μg/m3)		33	40	35
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		18-08-2020
Checked by	Calvin Lui		18-08-2020

Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	19-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	13:30	14:30	15:30
	Finish	14:30	15:30	16:30
Measured 1-hour TSP(μg/m3)		37	45	38
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		19-08-2020
Checked by	Calvin Lui		19-08-2020

Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	20-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Cloudy		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:04	09:04	10:04
	Finish	09:04	10:04	11:04
Measured 1-hour TSP(μg/m3)		29	34	33
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		20-08-2020
Checked by	Calvin Lui		20-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	21-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:10	09:10	10:10
	Finish	09:10	10:10	11:10
Measured 1-hour TSP(μg/m3)		36	32	40
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		21-08-2020
Checked by	Calvin Lui		21-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	22-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	14:03	15:03	16:03
	Finish	15:03	16:03	17:03
Measured 1-hour TSP(μg/m3)		46	44	32
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		22-08-2020
Checked by	Calvin Lui		22-08-2020

RECORD OF BASELINE DUST MONITORING

Record Sheet for 1-hour Total Suspended Particulates Monitoring
(for each measurement)

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Data of Monitoring	23-08-2020			
Monitoring Location		AM5A		
Description of the Location		Far East Consortium Building		
Measurement Method (Direct measurement or High Volume Sampler)		Direct measurement		
Equipment Use (Model and Serial No.)		Met One Instruments/ Aerocet-531S P21676		
Weather Condition	Status	Fine		
	Wind Strength (m/s)	<1		
Frequency of Monitoring		3x1-hr TSP Monitoring		
Time of Monitoring	Start	08:06	09:06	10:06
	Finish	09:06	10:06	11:06
Measured 1-hour TSP(μg/m3)		35	40	31
Site Construction Activities		N.A.		

	Name	Signature	Date
Recorded by	CK Ip		23-08-2020
Checked by	Calvin Lui		23-08-2020

Monthly Record of 1-hour Total Suspended Particulates Monitoring

Contract No. : /

Contract Title. : Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District

Date	AM5A		
	Time of Monitoring		1-hour TSP (μg/m3)
08-08-2020	14:09	15:09	44
	15:09	16:09	50
	16:09	17:09	43
09-08-2020	14:20	15:20	46
	15:20	16:20	47
	16:20	17:20	42
10-08-2020	8:30	9:30	33
	9:30	10:30	38
	10:30	11:30	45
11-08-2020	14:27	15:27	44
	15:27	16:27	39
	16:27	17:27	42
12-08-2020	8:03	9:03	36
	9:03	10:03	40
	10:03	11:03	48
13-08-2020	8:26	9:26	39
	9:26	10:26	45
	10:26	11:26	37
14-08-2020	14:06	15:06	45
	15:06	16:06	48
	16:06	17:06	39
15-08-2020	14:02	15:02	36
	15:02	16:02	31
	16:02	17:02	40
16-08-2020	14:30	15:30	45
	15:30	16:30	34
	16:30	17:30	48
17-08-2020	8:06	9:06	29
	9:06	10:06	34
	10:06	11:06	38
18-08-2020	8:09	9:09	33
	9:09	10:09	40
	10:09	11:09	35
19-08-2020	13:30	14:30	37
	14:30	15:30	45
	15:30	16:30	38
20-08-2020	8:04	9:04	29
	9:04	10:04	34
	10:04	11:04	33
21-08-2020	8:10	9:10	36
	9:10	10:10	32
	10:10	11:10	40
22-08-2020	14:03	15:03	46
	15:03	16:03	44
	16:03	17:03	32
23-08-2020	8:06	9:06	35
	9:06	10:06	40
	10:06	11:06	31

	Name	Signature	Date
Recorded by	CK Ip		23-08-2020
Checked by	Calvin Lui		23-08-2020

Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

NOISE MONITORING DATA

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
8/8/2020	7:00:00	8/8/2020	7:05:00	57.9	53.5	56.2	58.3	61.3	53.1	56.1	56.5	59.5
8/8/2020	7:05:00	8/8/2020	7:10:00	58.2	52.1	56.0						
8/8/2020	7:10:00	8/8/2020	7:15:00	59.0	53.7	58.0						
8/8/2020	7:15:00	8/8/2020	7:20:00	58.2	53.0	56.5						
8/8/2020	7:20:00	8/8/2020	7:25:00	58.3	53.1	56.0						
8/8/2020	7:25:00	8/8/2020	7:30:00	58.0	52.8	55.8						
8/8/2020	7:30:00	8/8/2020	7:35:00	58.9	53.1	56.4	59.7	62.7	53.2	56.2	57.5	60.5
8/8/2020	7:35:00	8/8/2020	7:40:00	59.8	53.5	58.1						
8/8/2020	7:40:00	8/8/2020	7:45:00	60.7	53.6	58.4						
8/8/2020	7:45:00	8/8/2020	7:50:00	60.4	53.8	58.1						
8/8/2020	7:50:00	8/8/2020	7:55:00	58.4	52.4	56.4						
8/8/2020	7:55:00	8/8/2020	8:00:00	59.8	52.8	57.1						
8/8/2020	8:00:00	8/8/2020	8:05:00	59.1	52.2	56.7	60.8	63.8	52.7	55.7	58.6	61.6
8/8/2020	8:05:00	8/8/2020	8:10:00	57.4	51.7	55.3						
8/8/2020	8:10:00	8/8/2020	8:15:00	57.5	52.7	55.6						
8/8/2020	8:15:00	8/8/2020	8:20:00	64.3	53.1	62.2						
8/8/2020	8:20:00	8/8/2020	8:25:00	61.6	53.7	59.3						
8/8/2020	8:25:00	8/8/2020	8:30:00	60.4	52.8	58.3						
8/8/2020	8:30:00	8/8/2020	8:35:00	56.5	52.4	55.1	57.7	60.7	52.3	55.3	55.7	58.7
8/8/2020	8:35:00	8/8/2020	8:40:00	58.6	51.6	55.6						
8/8/2020	8:40:00	8/8/2020	8:45:00	57.4	52.6	55.6						
8/8/2020	8:45:00	8/8/2020	8:50:00	57.0	52.0	55.3						
8/8/2020	8:50:00	8/8/2020	8:55:00	57.2	52.4	55.6						
8/8/2020	8:55:00	8/8/2020	9:00:00	59.1	52.7	57.0						
8/8/2020	9:00:00	8/8/2020	9:05:00	57.1	51.5	55.4	58.0	61.0	51.5	54.5	55.9	58.9
8/8/2020	9:05:00	8/8/2020	9:10:00	60.1	52.1	57.6						
8/8/2020	9:10:00	8/8/2020	9:15:00	56.9	51.5	54.6						
8/8/2020	9:15:00	8/8/2020	9:20:00	56.9	51.5	55.3						
8/8/2020	9:20:00	8/8/2020	9:25:00	56.2	50.4	54.5						
8/8/2020	9:25:00	8/8/2020	9:30:00	59.1	51.9	57.0						
8/8/2020	9:30:00	8/8/2020	9:35:00	61.6	50.4	61.4	61.3	64.3	50.8	53.8	58.7	61.7
8/8/2020	9:35:00	8/8/2020	9:40:00	59.7	51.3	56.4						
8/8/2020	9:40:00	8/8/2020	9:45:00	64.9	51.3	61.2						
8/8/2020	9:45:00	8/8/2020	9:50:00	55.4	50.7	53.6						
8/8/2020	9:50:00	8/8/2020	9:55:00	58.5	50.0	55.2						
8/8/2020	9:55:00	8/8/2020	10:00:00	61.7	51.0	58.8						
8/8/2020	10:00:00	8/8/2020	10:05:00	55.4	50.7	53.6	57.9	60.9	50.4	53.4	55.4	58.4
8/8/2020	10:05:00	8/8/2020	10:10:00	60.7	50.4	58.2						
8/8/2020	10:10:00	8/8/2020	10:15:00	55.8	50.3	55.1						
8/8/2020	10:15:00	8/8/2020	10:20:00	55.9	50.1	53.4						
8/8/2020	10:20:00	8/8/2020	10:25:00	56.3	50.2	53.5						
8/8/2020	10:25:00	8/8/2020	10:30:00	59.8	50.7	56.5						
8/8/2020	10:30:00	8/8/2020	10:35:00	56.4	50.1	54.0	57.9	60.9	50.2	53.2	54.5	57.5
8/8/2020	10:35:00	8/8/2020	10:40:00	59.0	49.2	52.5						
8/8/2020	10:40:00	8/8/2020	10:45:00	59.2	50.7	55.4						
8/8/2020	10:45:00	8/8/2020	10:50:00	58.0	51.1	54.7						
8/8/2020	10:50:00	8/8/2020	10:55:00	57.9	49.8	55.6						
8/8/2020	10:55:00	8/8/2020	11:00:00	55.7	50.2	54.2						
8/8/2020	11:00:00	8/8/2020	11:05:00	61.6	50.1	54.3	59.0	62.0	50.2	53.2	55.3	58.3
8/8/2020	11:05:00	8/8/2020	11:10:00	60.5	49.9	53.1						
8/8/2020	11:10:00	8/8/2020	11:15:00	54.1	49.2	53.2						
8/8/2020	11:15:00	8/8/2020	11:20:00	57.4	50.1	54.1						
8/8/2020	11:20:00	8/8/2020	11:25:00	58.5	50.6	57.3						
8/8/2020	11:25:00	8/8/2020	11:30:00	58.4	51.0	57.6						
8/8/2020	11:30:00	8/8/2020	11:35:00	56.3	51.0	51.2	62.3	65.3	50.2	53.2	54.2	57.2
8/8/2020	11:35:00	8/8/2020	11:40:00	56.8	49.9	52.6						
8/8/2020	11:40:00	8/8/2020	11:45:00	57.0	50.9	53.4						
8/8/2020	11:45:00	8/8/2020	11:50:00	58.9	50.0	55.4						
8/8/2020	11:50:00	8/8/2020	11:55:00	56.8	49.6	54.8						
8/8/2020	11:55:00	8/8/2020	12:00:00	68.7	49.7	56.0						
8/8/2020	12:00:00	8/8/2020	12:05:00	60.1	52.7	59.4	58.2	61.2	52.6	55.6	57.2	60.2
8/8/2020	12:05:00	8/8/2020	12:10:00	58.6	53.0	58.1						
8/8/2020	12:10:00	8/8/2020	12:15:00	57.1	52.0	56.4						
8/8/2020	12:15:00	8/8/2020	12:20:00	57.7	52.9	56.8						
8/8/2020	12:20:00	8/8/2020	12:25:00	57.8	52.3	55.7						
8/8/2020	12:25:00	8/8/2020	12:30:00	56.7	52.5	55.1						

8/8/2020	12:30:00	8/8/2020	12:35:00	57.2	52.2	55.0	58.3	61.3	52.3	55.3	56.1	59.1
8/8/2020	12:35:00	8/8/2020	12:40:00	58.2	52.5	55.6						
8/8/2020	12:40:00	8/8/2020	12:45:00	57.7	52.7	55.5						
8/8/2020	12:45:00	8/8/2020	12:50:00	59.9	52.3	58.1						
8/8/2020	12:50:00	8/8/2020	12:55:00	58.8	52.4	56.6						
8/8/2020	12:55:00	8/8/2020	13:00:00	57.3	51.9	55.1						
8/8/2020	13:00:00	8/8/2020	13:05:00	58.8	51.7	57.9	60.6	63.6	52.1	55.1	58.8	61.8
8/8/2020	13:05:00	8/8/2020	13:10:00	57.4	52.1	55.9						
8/8/2020	13:10:00	8/8/2020	13:15:00	57.4	52.3	55.5						
8/8/2020	13:15:00	8/8/2020	13:20:00	59.5	52.2	58.2						
8/8/2020	13:20:00	8/8/2020	13:25:00	65.0	52.8	62.6						
8/8/2020	13:25:00	8/8/2020	13:30:00	59.9	51.4	58.6						
8/8/2020	13:30:00	8/8/2020	13:35:00	58.8	51.5	58.2	57.9	60.9	51.9	54.9	56.0	59.0
8/8/2020	13:35:00	8/8/2020	13:40:00	56.6	51.9	54.8						
8/8/2020	13:40:00	8/8/2020	13:45:00	55.5	51.9	54.0						
8/8/2020	13:45:00	8/8/2020	13:50:00	57.9	53.0	55.8						
8/8/2020	13:50:00	8/8/2020	13:55:00	56.2	51.5	54.3						
8/8/2020	13:55:00	8/8/2020	14:00:00	60.5	51.3	57.3						
8/8/2020	14:00:00	8/8/2020	14:05:00	60.8	51.9	57.7	57.9	60.9	51.5	54.5	55.4	58.4
8/8/2020	14:05:00	8/8/2020	14:10:00	55.5	51.1	53.8						
8/8/2020	14:10:00	8/8/2020	14:15:00	55.4	51.5	54.6						
8/8/2020	14:15:00	8/8/2020	14:20:00	55.9	51.0	54.2						
8/8/2020	14:20:00	8/8/2020	14:25:00	60.4	52.2	56.9						
8/8/2020	14:25:00	8/8/2020	14:30:00	55.4	51.1	53.7						
8/8/2020	14:30:00	8/8/2020	14:35:00	56.1	51.4	54.8	56.0	59.0	50.9	53.9	54.3	57.3
8/8/2020	14:35:00	8/8/2020	14:40:00	56.4	50.9	55.0						
8/8/2020	14:40:00	8/8/2020	14:45:00	55.8	50.8	53.6						
8/8/2020	14:45:00	8/8/2020	14:50:00	57.1	51.2	55.4						
8/8/2020	14:50:00	8/8/2020	14:55:00	54.8	50.4	52.9						
8/8/2020	14:55:00	8/8/2020	15:00:00	55.5	50.3	53.7						
8/8/2020	15:00:00	8/8/2020	15:05:00	56.3	51.0	54.1	56.5	59.5	50.1	53.1	54.0	57.0
8/8/2020	15:05:00	8/8/2020	15:10:00	58.5	49.9	55.6						
8/8/2020	15:10:00	8/8/2020	15:15:00	53.5	49.7	51.8						
8/8/2020	15:15:00	8/8/2020	15:20:00	57.6	49.5	55.0						
8/8/2020	15:20:00	8/8/2020	15:25:00	55.6	50.2	53.2						
8/8/2020	15:25:00	8/8/2020	15:30:00	56.1	50.2	53.4						
8/8/2020	15:30:00	8/8/2020	15:35:00	59.6	50.5	56.6	59.6	62.6	53.4	56.4	56.5	59.5
8/8/2020	15:35:00	8/8/2020	15:40:00	58.5	49.2	55.2						
8/8/2020	15:40:00	8/8/2020	15:45:00	60.3	56.3	57.1						
8/8/2020	15:45:00	8/8/2020	15:50:00	59.4	50.6	56.3						
8/8/2020	15:50:00	8/8/2020	15:55:00	59.3	50.4	56.2						
8/8/2020	15:55:00	8/8/2020	16:00:00	60.4	56.6	57.1						
8/8/2020	16:00:00	8/8/2020	16:05:00	58.3	49.3	55.2	59.4	62.4	53.1	56.1	56.4	59.4
8/8/2020	16:05:00	8/8/2020	16:10:00	59.2	50.5	56.6						
8/8/2020	16:10:00	8/8/2020	16:15:00	60.3	56.2	57.1						
8/8/2020	16:15:00	8/8/2020	16:20:00	58.3	49.2	55.3						
8/8/2020	16:20:00	8/8/2020	16:25:00	59.4	50.6	56.4						
8/8/2020	16:25:00	8/8/2020	16:30:00	60.4	56.2	57.3						
8/8/2020	16:30:00	8/8/2020	16:35:00	55.5	50.9	53.3	59.8	62.8	54.1	57.1	55.9	58.9
8/8/2020	16:35:00	8/8/2020	16:40:00	60.0	49.2	54.3						
8/8/2020	16:40:00	8/8/2020	16:45:00	60.7	50.4	55.3						
8/8/2020	16:45:00	8/8/2020	16:50:00	60.0	56.3	57.3						
8/8/2020	16:50:00	8/8/2020	16:55:00	60.8	55.4	56.3						
8/8/2020	16:55:00	8/8/2020	17:00:00	60.0	56.6	57.4						
8/8/2020	17:00:00	8/8/2020	17:05:00	60.5	53.1	55.6	61.2	64.2	55.7	58.7	57.2	60.2
8/8/2020	17:05:00	8/8/2020	17:10:00	60.5	57.0	57.5						
8/8/2020	17:10:00	8/8/2020	17:15:00	60.2	56.9	57.4						
8/8/2020	17:15:00	8/8/2020	17:20:00	59.7	54.1	56.3						
8/8/2020	17:20:00	8/8/2020	17:25:00	59.1	56.2	57.7						
8/8/2020	17:25:00	8/8/2020	17:30:00	64.5	55.7	58.4						
8/8/2020	17:30:00	8/8/2020	17:35:00	59.8	55.4	58.4	59.5	62.5	55.7	58.7	57.9	60.9
8/8/2020	17:35:00	8/8/2020	17:40:00	59.9	55.7	57.8						
8/8/2020	17:40:00	8/8/2020	17:45:00	59.6	55.8	57.9						
8/8/2020	17:45:00	8/8/2020	17:50:00	58.6	55.6	57.2						
8/8/2020	17:50:00	8/8/2020	17:55:00	58.8	55.4	57.2						
8/8/2020	17:55:00	8/8/2020	18:00:00	60.2	56.1	58.7						
8/8/2020	18:00:00	8/8/2020	18:05:00	61.7	55.8	57.4	60.2	63.2	55.4	58.4	57.3	60.3
8/8/2020	18:05:00	8/8/2020	18:10:00	61.0	55.7	58.7						
8/8/2020	18:10:00	8/8/2020	18:15:00	59.4	55.5	57.5						
8/8/2020	18:15:00	8/8/2020	18:20:00	60.1	55.5	55.6						
8/8/2020	18:20:00	8/8/2020	18:25:00	58.5	54.6	56.7						
8/8/2020	18:25:00	8/8/2020	18:30:00	59.4	55.1	57.6						
8/8/2020	18:30:00	8/8/2020	18:35:00	60.0	55.0	58.0	58.8	61.8	54.3	57.3	57.1	60.1
8/8/2020	18:35:00	8/8/2020	18:40:00	58.5	54.6	57.0						
8/8/2020	18:40:00	8/8/2020	18:45:00	58.7	54.7	57.0						
8/8/2020	18:45:00	8/8/2020	18:50:00	59.2	54.5	57.3						
8/8/2020	18:50:00	8/8/2020	18:55:00	58.1	53.4	56.4						
8/8/2020	18:55:00	8/8/2020	19:00:00	57.6	53.1	56.8						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
9/8/2020	7:00:00	9/8/2020	7:05:00	55.5	48.8	52.5	56.7	59.7	49.7	52.7	54.1	57.1
9/8/2020	7:05:00	9/8/2020	7:10:00	57.5	49.8	55.3						
9/8/2020	7:10:00	9/8/2020	7:15:00	54.0	50.0	52.4						
9/8/2020	7:15:00	9/8/2020	7:20:00	59.4	49.9	56.5						
9/8/2020	7:20:00	9/8/2020	7:25:00	54.6	49.9	52.3						
9/8/2020	7:25:00	9/8/2020	7:30:00	56.7	49.6	53.4						
9/8/2020	7:30:00	9/8/2020	7:35:00	55.4	49.9	54.1	57.4	60.4	50.0	53.0	55.2	58.2
9/8/2020	7:35:00	9/8/2020	7:40:00	54.0	49.2	50.3						
9/8/2020	7:40:00	9/8/2020	7:45:00	58.8	49.8	55.5						
9/8/2020	7:45:00	9/8/2020	7:50:00	58.0	51.1	57.9						
9/8/2020	7:50:00	9/8/2020	7:55:00	57.0	50.2	53.9						
9/8/2020	7:55:00	9/8/2020	8:00:00	59.2	49.6	56.3						
9/8/2020	8:00:00	9/8/2020	8:05:00	59.6	49.5	56.3	59.1	62.1	49.5	52.5	56.2	59.2
9/8/2020	8:05:00	9/8/2020	8:10:00	55.3	49.5	54.1						
9/8/2020	8:10:00	9/8/2020	8:15:00	59.7	49.5	56.8						
9/8/2020	8:15:00	9/8/2020	8:20:00	59.6	49.4	56.3						
9/8/2020	8:20:00	9/8/2020	8:25:00	59.5	49.6	56.5						
9/8/2020	8:25:00	9/8/2020	8:30:00	59.4	49.5	56.7						
9/8/2020	8:30:00	9/8/2020	8:35:00	56.8	50.1	54.1	59.3	62.3	50.7	53.7	55.0	58.0
9/8/2020	8:35:00	9/8/2020	8:40:00	55.2	50.6	54.3						
9/8/2020	8:40:00	9/8/2020	8:45:00	55.4	50.7	54.1						
9/8/2020	8:45:00	9/8/2020	8:50:00	64.2	51.1	54.3						
9/8/2020	8:50:00	9/8/2020	8:55:00	55.9	51.0	54.2						
9/8/2020	8:55:00	9/8/2020	9:00:00	59.6	50.8	57.5						
9/8/2020	9:00:00	9/8/2020	9:05:00	61.2	52.4	59.0	58.4	61.4	51.7	54.7	56.7	59.7
9/8/2020	9:05:00	9/8/2020	9:10:00	56.1	52.1	54.5						
9/8/2020	9:10:00	9/8/2020	9:15:00	56.8	51.5	54.5						
9/8/2020	9:15:00	9/8/2020	9:20:00	56.0	51.8	54.0						
9/8/2020	9:20:00	9/8/2020	9:25:00	56.9	51.1	55.0						
9/8/2020	9:25:00	9/8/2020	9:30:00	60.3	51.2	59.6						
9/8/2020	9:30:00	9/8/2020	9:35:00	56.1	51.7	54.5	56.4	59.4	51.1	54.1	55.0	58.0
9/8/2020	9:35:00	9/8/2020	9:40:00	56.1	51.0	54.2						
9/8/2020	9:40:00	9/8/2020	9:45:00	58.1	51.5	56.1						
9/8/2020	9:45:00	9/8/2020	9:50:00	56.8	50.7	55.5						
9/8/2020	9:50:00	9/8/2020	9:55:00	55.1	50.5	54.3						
9/8/2020	9:55:00	9/8/2020	10:00:00	55.5	50.9	54.9						
9/8/2020	10:00:00	9/8/2020	10:05:00	58.4	52.0	55.5	57.2	60.2	51.5	54.5	54.7	57.7
9/8/2020	10:05:00	9/8/2020	10:10:00	56.9	51.0	54.0						
9/8/2020	10:10:00	9/8/2020	10:15:00	57.7	51.0	55.1						
9/8/2020	10:15:00	9/8/2020	10:20:00	56.8	51.3	54.7						
9/8/2020	10:20:00	9/8/2020	10:25:00	56.9	51.6	54.4						
9/8/2020	10:25:00	9/8/2020	10:30:00	56.1	51.9	54.4						
9/8/2020	10:30:00	9/8/2020	10:35:00	58.6	51.8	55.9	61.7	64.7	52.1	55.1	56.0	59.0
9/8/2020	10:35:00	9/8/2020	10:40:00	64.5	52.6	54.3						
9/8/2020	10:40:00	9/8/2020	10:45:00	58.3	52.1	57.8						
9/8/2020	10:45:00	9/8/2020	10:50:00	65.5	51.8	56.3						
9/8/2020	10:50:00	9/8/2020	10:55:00	57.9	52.4	55.2						
9/8/2020	10:55:00	9/8/2020	11:00:00	57.6	52.1	55.8						
9/8/2020	11:00:00	9/8/2020	11:05:00	56.5	51.9	54.5	57.3	60.3	51.8	54.8	55.0	58.0
9/8/2020	11:05:00	9/8/2020	11:10:00	58.5	52.1	55.5						
9/8/2020	11:10:00	9/8/2020	11:15:00	56.9	51.4	54.9						
9/8/2020	11:15:00	9/8/2020	11:20:00	56.7	51.8	54.6						
9/8/2020	11:20:00	9/8/2020	11:25:00	56.8	52.0	54.7						
9/8/2020	11:25:00	9/8/2020	11:30:00	58.1	51.7	55.4						
9/8/2020	11:30:00	9/8/2020	11:35:00	63.9	51.6	59.3	59.2	62.2	52.6	55.6	56.4	59.4
9/8/2020	11:35:00	9/8/2020	11:40:00	57.5	52.4	55.4						
9/8/2020	11:40:00	9/8/2020	11:45:00	55.8	51.9	54.1						
9/8/2020	11:45:00	9/8/2020	11:50:00	57.0	53.2	56.5						
9/8/2020	11:50:00	9/8/2020	11:55:00	56.6	53.1	55.0						
9/8/2020	11:55:00	9/8/2020	12:00:00	58.4	53.3	56.3						
9/8/2020	12:00:00	9/8/2020	12:05:00	56.6	52.7	54.8	58.1	61.1	52.8	55.8	55.9	58.9
9/8/2020	12:05:00	9/8/2020	12:10:00	58.5	53.3	56.3						
9/8/2020	12:10:00	9/8/2020	12:15:00	57.8	52.6	55.6						
9/8/2020	12:15:00	9/8/2020	12:20:00	59.4	52.6	57.2						
9/8/2020	12:20:00	9/8/2020	12:25:00	57.4	53.0	55.5						
9/8/2020	12:25:00	9/8/2020	12:30:00	58.1	52.3	55.8						

9/8/2020	12:30:00	9/8/2020	12:35:00	59.3	53.2	57.1	58.0	61.0	52.5	55.5	56.1	59.1
9/8/2020	12:35:00	9/8/2020	12:40:00	57.0	52.6	55.5						
9/8/2020	12:40:00	9/8/2020	12:45:00	58.7	52.6	57.1						
9/8/2020	12:45:00	9/8/2020	12:50:00	57.0	52.3	55.3						
9/8/2020	12:50:00	9/8/2020	12:55:00	56.9	51.7	54.7						
9/8/2020	12:55:00	9/8/2020	13:00:00	58.2	52.6	56.6						
9/8/2020	13:00:00	9/8/2020	13:05:00	59.3	53.1	57.1	58.0	61.0	52.4	55.4	55.7	58.7
9/8/2020	13:05:00	9/8/2020	13:10:00	57.5	51.8	55.2						
9/8/2020	13:10:00	9/8/2020	13:15:00	58.2	52.6	56.0						
9/8/2020	13:15:00	9/8/2020	13:20:00	57.1	52.2	55.3						
9/8/2020	13:20:00	9/8/2020	13:25:00	56.9	52.4	55.0						
9/8/2020	13:25:00	9/8/2020	13:30:00	58.3	52.3	55.5						
9/8/2020	13:30:00	9/8/2020	13:35:00	57.8	53.2	55.7	58.4	61.4	53.4	56.4	56.3	59.3
9/8/2020	13:35:00	9/8/2020	13:40:00	59.0	54.1	57.1						
9/8/2020	13:40:00	9/8/2020	13:45:00	58.1	52.8	56.1						
9/8/2020	13:45:00	9/8/2020	13:50:00	58.6	53.6	56.4						
9/8/2020	13:50:00	9/8/2020	13:55:00	58.9	53.7	56.9						
9/8/2020	13:55:00	9/8/2020	14:00:00	57.5	52.9	55.6						
9/8/2020	14:00:00	9/8/2020	14:05:00	58.3	52.8	56.4	58.7	61.7	53.3	56.3	56.6	59.6
9/8/2020	14:05:00	9/8/2020	14:10:00	57.6	53.1	55.9						
9/8/2020	14:10:00	9/8/2020	14:15:00	57.2	53.5	55.6						
9/8/2020	14:15:00	9/8/2020	14:20:00	57.4	53.0	55.6						
9/8/2020	14:20:00	9/8/2020	14:25:00	59.6	53.0	57.2						
9/8/2020	14:25:00	9/8/2020	14:30:00	60.8	54.3	58.2						
9/8/2020	14:30:00	9/8/2020	14:35:00	58.7	53.2	57.2	58.4	61.4	53.1	56.1	56.8	59.8
9/8/2020	14:35:00	9/8/2020	14:40:00	57.0	52.8	55.1						
9/8/2020	14:40:00	9/8/2020	14:45:00	60.0	53.0	57.7						
9/8/2020	14:45:00	9/8/2020	14:50:00	58.1	53.5	57.4						
9/8/2020	14:50:00	9/8/2020	14:55:00	58.9	53.2	57.2						
9/8/2020	14:55:00	9/8/2020	15:00:00	57.1	53.0	55.9						
9/8/2020	15:00:00	9/8/2020	15:05:00	57.7	54.3	56.1	58.2	61.2	53.5	56.5	56.4	59.4
9/8/2020	15:05:00	9/8/2020	15:10:00	57.8	53.6	56.1						
9/8/2020	15:10:00	9/8/2020	15:15:00	58.1	52.8	55.9						
9/8/2020	15:15:00	9/8/2020	15:20:00	57.0	52.9	55.9						
9/8/2020	15:20:00	9/8/2020	15:25:00	59.0	53.4	57.1						
9/8/2020	15:25:00	9/8/2020	15:30:00	59.2	53.6	57.3						
9/8/2020	15:30:00	9/8/2020	15:35:00	59.2	53.3	57.6	58.6	61.6	53.4	56.4	56.8	59.8
9/8/2020	15:35:00	9/8/2020	15:40:00	57.5	53.5	56.0						
9/8/2020	15:40:00	9/8/2020	15:45:00	58.1	53.0	55.8						
9/8/2020	15:45:00	9/8/2020	15:50:00	58.7	53.3	57.0						
9/8/2020	15:50:00	9/8/2020	15:55:00	58.0	53.7	56.6						
9/8/2020	15:55:00	9/8/2020	16:00:00	59.7	53.7	57.5						
9/8/2020	16:00:00	9/8/2020	16:05:00	60.0	54.5	57.9	60.4	63.4	53.8	56.8	56.9	59.9
9/8/2020	16:05:00	9/8/2020	16:10:00	59.7	53.5	57.3						
9/8/2020	16:10:00	9/8/2020	16:15:00	64.1	53.7	54.5						
9/8/2020	16:15:00	9/8/2020	16:20:00	58.2	53.9	56.4						
9/8/2020	16:20:00	9/8/2020	16:25:00	58.2	53.4	57.6						
9/8/2020	16:25:00	9/8/2020	16:30:00	58.5	54.0	56.8						
9/8/2020	16:30:00	9/8/2020	16:35:00	57.5	53.2	55.7	60.3	63.3	53.2	56.2	57.5	60.5
9/8/2020	16:35:00	9/8/2020	16:40:00	59.0	53.0	56.6						
9/8/2020	16:40:00	9/8/2020	16:45:00	63.3	53.4	59.9						
9/8/2020	16:45:00	9/8/2020	16:50:00	58.9	53.4	57.3						
9/8/2020	16:50:00	9/8/2020	16:55:00	60.5	52.9	57.0						
9/8/2020	16:55:00	9/8/2020	17:00:00	60.1	53.3	57.3						
9/8/2020	17:00:00	9/8/2020	17:05:00	60.0	53.0	57.6	60.2	63.2	53.6	56.6	57.8	60.8
9/8/2020	17:05:00	9/8/2020	17:10:00	59.8	53.8	57.4						
9/8/2020	17:10:00	9/8/2020	17:15:00	59.5	53.4	57.0						
9/8/2020	17:15:00	9/8/2020	17:20:00	62.6	54.0	59.9						
9/8/2020	17:20:00	9/8/2020	17:25:00	58.8	53.9	56.9						
9/8/2020	17:25:00	9/8/2020	17:30:00	59.3	53.5	57.0						
9/8/2020	17:30:00	9/8/2020	17:35:00	60.5	54.5	54.6	60.8	63.8	54.2	57.2	56.5	59.5
9/8/2020	17:35:00	9/8/2020	17:40:00	57.8	53.5	55.3						
9/8/2020	17:40:00	9/8/2020	17:45:00	59.8	54.3	57.8						
9/8/2020	17:45:00	9/8/2020	17:50:00	63.7	54.2	56.3						
9/8/2020	17:50:00	9/8/2020	17:55:00	61.3	55.1	58.8						
9/8/2020	17:55:00	9/8/2020	18:00:00	58.9	53.7	54.5						
9/8/2020	18:00:00	9/8/2020	18:05:00	64.0	54.6	58.4	61.2	64.2	54.1	57.1	57.4	60.4
9/8/2020	18:05:00	9/8/2020	18:10:00	59.5	53.8	57.6						
9/8/2020	18:10:00	9/8/2020	18:15:00	60.4	53.6	56.4						
9/8/2020	18:15:00	9/8/2020	18:20:00	60.0	54.1	54.3						
9/8/2020	18:20:00	9/8/2020	18:25:00	60.2	54.3	57.8						
9/8/2020	18:25:00	9/8/2020	18:30:00	61.1	54.1	58.5						
9/8/2020	18:30:00	9/8/2020	18:35:00	60.1	54.1	58.2	60.8	63.8	54.0	57.0	57.5	60.5
9/8/2020	18:35:00	9/8/2020	18:40:00	62.3	54.0	59.9						
9/8/2020	18:40:00	9/8/2020	18:45:00	58.2	54.0	56.5						
9/8/2020	18:45:00	9/8/2020	18:50:00	63.6	54.5	54.6						
9/8/2020	18:50:00	9/8/2020	18:55:00	59.3	53.8	57.1						
9/8/2020	18:55:00	9/8/2020	19:00:00	58.6	53.2	57.0						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
10/8/2020	7:00:00	10/8/2020	7:05:00	64.1	51.9	60.4	60.2	63.2	52.5	55.5	57.7	60.7
10/8/2020	7:05:00	10/8/2020	7:10:00	56.2	52.0	54.5						
10/8/2020	7:10:00	10/8/2020	7:15:00	57.5	52.6	56.1						
10/8/2020	7:15:00	10/8/2020	7:20:00	58.9	52.4	57.6						
10/8/2020	7:20:00	10/8/2020	7:25:00	59.6	53.4	57.1						
10/8/2020	7:25:00	10/8/2020	7:30:00	60.4	52.7	58.4						
10/8/2020	7:30:00	10/8/2020	7:35:00	62.1	53.1	60.3	60.9	63.9	54.0	57.0	58.9	61.9
10/8/2020	7:35:00	10/8/2020	7:40:00	58.6	54.6	57.4						
10/8/2020	7:40:00	10/8/2020	7:45:00	58.1	54.4	56.5						
10/8/2020	7:45:00	10/8/2020	7:50:00	57.8	53.1	55.9						
10/8/2020	7:50:00	10/8/2020	7:55:00	62.4	54.3	60.3						
10/8/2020	7:55:00	10/8/2020	8:00:00	63.1	54.5	60.4						
10/8/2020	8:00:00	10/8/2020	8:05:00	58.5	54.8	56.9	59.2	62.2	55.5	58.5	57.6	60.6
10/8/2020	8:05:00	10/8/2020	8:10:00	60.1	55.1	57.8						
10/8/2020	8:10:00	10/8/2020	8:15:00	59.2	54.6	57.6						
10/8/2020	8:15:00	10/8/2020	8:20:00	58.7	55.5	57.3						
10/8/2020	8:20:00	10/8/2020	8:25:00	59.4	55.9	57.9						
10/8/2020	8:25:00	10/8/2020	8:30:00	59.0	56.5	57.8						
10/8/2020	8:30:00	10/8/2020	8:35:00	59.5	56.4	58.1	62.8	65.8	58.3	61.3	61.1	64.1
10/8/2020	8:35:00	10/8/2020	8:40:00	60.7	57.7	59.3						
10/8/2020	8:40:00	10/8/2020	8:45:00	62.4	57.7	61.7						
10/8/2020	8:45:00	10/8/2020	8:50:00	65.7	59.0	63.0						
10/8/2020	8:50:00	10/8/2020	8:55:00	62.9	59.1	61.2						
10/8/2020	8:55:00	10/8/2020	9:00:00	63.0	59.0	61.4						
10/8/2020	9:00:00	10/8/2020	9:05:00	62.6	58.4	60.9	63.3	66.3	58.7	61.7	61.3	64.3
10/8/2020	9:05:00	10/8/2020	9:10:00	64.0	59.1	61.9						
10/8/2020	9:10:00	10/8/2020	9:15:00	63.2	58.4	61.1						
10/8/2020	9:15:00	10/8/2020	9:20:00	62.9	58.2	60.8						
10/8/2020	9:20:00	10/8/2020	9:25:00	63.6	59.3	61.7						
10/8/2020	9:25:00	10/8/2020	9:30:00	63.2	58.9	61.4						
10/8/2020	9:30:00	10/8/2020	9:35:00	64.3	59.6	62.3	62.6	65.6	58.7	61.7	60.9	63.9
10/8/2020	9:35:00	10/8/2020	9:40:00	63.1	58.8	61.3						
10/8/2020	9:40:00	10/8/2020	9:45:00	63.4	58.8	61.3						
10/8/2020	9:45:00	10/8/2020	9:50:00	61.5	58.7	60.3						
10/8/2020	9:50:00	10/8/2020	9:55:00	61.3	57.8	60.1						
10/8/2020	9:55:00	10/8/2020	10:00:00	60.9	58.3	59.8						
10/8/2020	10:00:00	10/8/2020	10:05:00	61.8	58.5	60.4	62.4	65.4	58.6	61.6	60.7	63.7
10/8/2020	10:05:00	10/8/2020	10:10:00	61.8	57.8	59.9						
10/8/2020	10:10:00	10/8/2020	10:15:00	63.3	59.0	61.5						
10/8/2020	10:15:00	10/8/2020	10:20:00	63.4	59.1	61.5						
10/8/2020	10:20:00	10/8/2020	10:25:00	61.4	58.0	59.8						
10/8/2020	10:25:00	10/8/2020	10:30:00	62.4	58.8	60.8						
10/8/2020	10:30:00	10/8/2020	10:35:00	62.6	58.6	60.9	62.5	65.5	58.5	61.5	60.8	63.8
10/8/2020	10:35:00	10/8/2020	10:40:00	63.0	58.5	61.4						
10/8/2020	10:40:00	10/8/2020	10:45:00	63.0	59.0	61.3						
10/8/2020	10:45:00	10/8/2020	10:50:00	62.5	59.1	61.0						
10/8/2020	10:50:00	10/8/2020	10:55:00	61.1	57.4	59.2						
10/8/2020	10:55:00	10/8/2020	11:00:00	62.8	57.9	60.5						
10/8/2020	11:00:00	10/8/2020	11:05:00	63.3	59.0	61.6	62.0	65.0	58.0	61.0	60.4	63.4
10/8/2020	11:05:00	10/8/2020	11:10:00	62.9	58.1	61.4						
10/8/2020	11:10:00	10/8/2020	11:15:00	60.5	57.1	59.0						
10/8/2020	11:15:00	10/8/2020	11:20:00	61.8	57.8	60.1						
10/8/2020	11:20:00	10/8/2020	11:25:00	61.7	58.0	60.0						
10/8/2020	11:25:00	10/8/2020	11:30:00	61.1	57.9	59.7						
10/8/2020	11:30:00	10/8/2020	11:35:00	60.8	57.6	59.4	60.4	63.4	57.3	60.3	59.1	62.1
10/8/2020	11:35:00	10/8/2020	11:40:00	60.5	57.7	59.1						
10/8/2020	11:40:00	10/8/2020	11:45:00	60.4	57.6	59.7						
10/8/2020	11:45:00	10/8/2020	11:50:00	61.3	58.2	60.0						
10/8/2020	11:50:00	10/8/2020	11:55:00	60.0	56.2	58.2						
10/8/2020	11:55:00	10/8/2020	12:00:00	59.0	55.8	57.8						
10/8/2020	12:00:00	10/8/2020	12:05:00	60.8	55.6	59.0	59.9	62.9	55.6	58.6	58.1	61.1
10/8/2020	12:05:00	10/8/2020	12:10:00	60.6	56.6	58.9						
10/8/2020	12:10:00	10/8/2020	12:15:00	59.5	55.8	58.1						
10/8/2020	12:15:00	10/8/2020	12:20:00	59.5	55.6	57.5						
10/8/2020	12:20:00	10/8/2020	12:25:00	58.9	54.9	57.1						
10/8/2020	12:25:00	10/8/2020	12:30:00	59.6	54.5	57.5						

10/8/2020	12:30:00	10/8/2020	12:35:00	58.5	54.9	56.8	59.1	62.1	55.0	58.0	57.4	60.4
10/8/2020	12:35:00	10/8/2020	12:40:00	58.0	54.6	56.3						
10/8/2020	12:40:00	10/8/2020	12:45:00	59.3	54.6	57.4						
10/8/2020	12:45:00	10/8/2020	12:50:00	59.1	55.5	57.7						
10/8/2020	12:50:00	10/8/2020	12:55:00	59.3	54.8	58.1						
10/8/2020	12:55:00	10/8/2020	13:00:00	60.1	55.5	58.0						
10/8/2020	13:00:00	10/8/2020	13:05:00	60.2	55.1	58.2	61.5	64.5	57.3	60.3	59.7	62.7
10/8/2020	13:05:00	10/8/2020	13:10:00	59.8	56.6	58.4						
10/8/2020	13:10:00	10/8/2020	13:15:00	60.5	56.8	59.0						
10/8/2020	13:15:00	10/8/2020	13:20:00	61.4	57.3	59.6						
10/8/2020	13:20:00	10/8/2020	13:25:00	63.3	58.5	61.3						
10/8/2020	13:25:00	10/8/2020	13:30:00	62.5	58.6	60.8						
10/8/2020	13:30:00	10/8/2020	13:35:00	62.9	59.1	61.3	62.6	65.6	58.6	61.6	60.9	63.9
10/8/2020	13:35:00	10/8/2020	13:40:00	62.8	58.5	60.9						
10/8/2020	13:40:00	10/8/2020	13:45:00	62.5	58.9	61.0						
10/8/2020	13:45:00	10/8/2020	13:50:00	62.0	58.7	60.5						
10/8/2020	13:50:00	10/8/2020	13:55:00	63.3	58.2	61.3						
10/8/2020	13:55:00	10/8/2020	14:00:00	61.8	58.4	60.2						
10/8/2020	14:00:00	10/8/2020	14:05:00	63.9	59.2	61.7	62.7	65.7	58.5	61.5	60.8	63.8
10/8/2020	14:05:00	10/8/2020	14:10:00	61.1	58.3	59.8						
10/8/2020	14:10:00	10/8/2020	14:15:00	63.9	58.1	61.3						
10/8/2020	14:15:00	10/8/2020	14:20:00	62.0	58.0	60.4						
10/8/2020	14:20:00	10/8/2020	14:25:00	62.3	57.8	60.4						
10/8/2020	14:25:00	10/8/2020	14:30:00	62.4	59.3	61.1						
10/8/2020	14:30:00	10/8/2020	14:35:00	61.2	58.1	60.1	61.3	64.3	58.0	61.0	59.8	62.8
10/8/2020	14:35:00	10/8/2020	14:40:00	61.4	58.2	59.9						
10/8/2020	14:40:00	10/8/2020	14:45:00	61.1	57.8	59.6						
10/8/2020	14:45:00	10/8/2020	14:50:00	61.6	57.3	59.5						
10/8/2020	14:50:00	10/8/2020	14:55:00	61.3	58.2	59.8						
10/8/2020	14:55:00	10/8/2020	15:00:00	61.3	58.3	60.0						
10/8/2020	15:00:00	10/8/2020	15:05:00	61.8	58.3	60.3	61.4	64.4	57.8	60.8	59.8	62.8
10/8/2020	15:05:00	10/8/2020	15:10:00	60.7	57.2	59.2						
10/8/2020	15:10:00	10/8/2020	15:15:00	61.0	56.9	59.4						
10/8/2020	15:15:00	10/8/2020	15:20:00	61.6	57.8	59.7						
10/8/2020	15:20:00	10/8/2020	15:25:00	61.6	57.4	59.9						
10/8/2020	15:25:00	10/8/2020	15:30:00	61.4	58.7	60.4						
10/8/2020	15:30:00	10/8/2020	15:35:00	62.3	58.9	60.8	61.7	64.7	58.9	61.9	60.4	63.4
10/8/2020	15:35:00	10/8/2020	15:40:00	61.2	58.4	59.8						
10/8/2020	15:40:00	10/8/2020	15:45:00	61.5	59.0	60.2						
10/8/2020	15:45:00	10/8/2020	15:50:00	61.9	59.5	60.9						
10/8/2020	15:50:00	10/8/2020	15:55:00	62.3	59.8	61.0						
10/8/2020	15:55:00	10/8/2020	16:00:00	60.9	57.4	59.3						
10/8/2020	16:00:00	10/8/2020	16:05:00	61.6	57.6	59.8	62.6	65.6	58.2	61.2	61.3	64.3
10/8/2020	16:05:00	10/8/2020	16:10:00	62.5	58.0	60.4						
10/8/2020	16:10:00	10/8/2020	16:15:00	61.3	58.2	60.0						
10/8/2020	16:15:00	10/8/2020	16:20:00	65.4	58.5	64.7						
10/8/2020	16:20:00	10/8/2020	16:25:00	61.4	58.3	60.0						
10/8/2020	16:25:00	10/8/2020	16:30:00	61.8	58.5	60.7						
10/8/2020	16:30:00	10/8/2020	16:35:00	61.6	58.2	60.2	61.5	64.5	57.5	60.5	60.0	63.0
10/8/2020	16:35:00	10/8/2020	16:40:00	62.9	57.8	61.3						
10/8/2020	16:40:00	10/8/2020	16:45:00	60.9	57.6	59.5						
10/8/2020	16:45:00	10/8/2020	16:50:00	60.6	57.6	59.5						
10/8/2020	16:50:00	10/8/2020	16:55:00	60.6	57.0	59.3						
10/8/2020	16:55:00	10/8/2020	17:00:00	61.8	56.9	59.7						
10/8/2020	17:00:00	10/8/2020	17:05:00	60.8	57.2	59.2	64.1	67.1	57.4	60.4	62.4	65.4
10/8/2020	17:05:00	10/8/2020	17:10:00	61.2	57.3	59.7						
10/8/2020	17:10:00	10/8/2020	17:15:00	65.2	57.8	64.1						
10/8/2020	17:15:00	10/8/2020	17:20:00	61.6	57.6	59.8						
10/8/2020	17:20:00	10/8/2020	17:25:00	67.1	57.6	65.1						
10/8/2020	17:25:00	10/8/2020	17:30:00	65.0	57.1	62.9						
10/8/2020	17:30:00	10/8/2020	17:35:00	63.2	56.7	60.8	62.1	65.1	56.6	59.6	59.8	62.8
10/8/2020	17:35:00	10/8/2020	17:40:00	61.3	56.5	59.1						
10/8/2020	17:40:00	10/8/2020	17:45:00	63.0	57.3	60.9						
10/8/2020	17:45:00	10/8/2020	17:50:00	60.6	56.4	58.7						
10/8/2020	17:50:00	10/8/2020	17:55:00	60.0	56.3	58.4						
10/8/2020	17:55:00	10/8/2020	18:00:00	63.1	56.6	60.4						
10/8/2020	18:00:00	10/8/2020	18:05:00	61.7	56.2	59.5	61.5	64.5	56.3	59.3	59.4	62.4
10/8/2020	18:05:00	10/8/2020	18:10:00	60.8	55.8	58.6						
10/8/2020	18:10:00	10/8/2020	18:15:00	61.9	56.1	59.7						
10/8/2020	18:15:00	10/8/2020	18:20:00	60.9	56.7	59.1						
10/8/2020	18:20:00	10/8/2020	18:25:00	62.3	56.5	59.9						
10/8/2020	18:25:00	10/8/2020	18:30:00	61.4	56.7	59.5						
10/8/2020	18:30:00	10/8/2020	18:35:00	60.5	56.1	59.1	61.8	64.8	55.6	58.6	59.9	62.9
10/8/2020	18:35:00	10/8/2020	18:40:00	60.0	55.8	58.4						
10/8/2020	18:40:00	10/8/2020	18:45:00	59.5	55.0	57.5						
10/8/2020	18:45:00	10/8/2020	18:50:00	61.3	55.7	59.3						
10/8/2020	18:50:00	10/8/2020	18:55:00	65.4	55.8	62.8						
10/8/2020	18:55:00	10/8/2020	19:00:00	61.3	55.0	60.1						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
11/8/2020	7:00:00	11/8/2020	7:05:00	58.2	50.6	55.5	57.2	60.2	51.9	54.9	55.0	58.0
11/8/2020	7:05:00	11/8/2020	7:10:00	57.4	51.9	54.1						
11/8/2020	7:10:00	11/8/2020	7:15:00	55.4	51.1	53.7						
11/8/2020	7:15:00	11/8/2020	7:20:00	58.0	52.5	55.6						
11/8/2020	7:20:00	11/8/2020	7:25:00	57.3	52.7	55.9						
11/8/2020	7:25:00	11/8/2020	7:30:00	56.2	52.1	54.5						
11/8/2020	7:30:00	11/8/2020	7:35:00	56.7	52.5	55.2	60.4	63.4	54.0	57.0	57.5	60.5
11/8/2020	7:35:00	11/8/2020	7:40:00	58.1	53.2	56.0						
11/8/2020	7:40:00	11/8/2020	7:45:00	57.1	52.9	55.2						
11/8/2020	7:45:00	11/8/2020	7:50:00	58.7	54.7	56.8						
11/8/2020	7:50:00	11/8/2020	7:55:00	65.1	55.3	60.9						
11/8/2020	7:55:00	11/8/2020	8:00:00	59.8	54.8	57.6						
11/8/2020	8:00:00	11/8/2020	8:05:00	58.2	54.8	56.8	60.1	63.1	56.7	59.7	58.7	61.7
11/8/2020	8:05:00	11/8/2020	8:10:00	59.8	56.0	58.3						
11/8/2020	8:10:00	11/8/2020	8:15:00	59.0	56.0	57.7						
11/8/2020	8:15:00	11/8/2020	8:20:00	60.8	56.6	59.0						
11/8/2020	8:20:00	11/8/2020	8:25:00	60.8	57.7	59.4						
11/8/2020	8:25:00	11/8/2020	8:30:00	61.3	58.2	60.0						
11/8/2020	8:30:00	11/8/2020	8:35:00	62.2	58.4	60.8	60.9	63.9	57.9	60.9	59.7	62.7
11/8/2020	8:35:00	11/8/2020	8:40:00	60.6	57.8	59.4						
11/8/2020	8:40:00	11/8/2020	8:45:00	60.7	57.4	59.4						
11/8/2020	8:45:00	11/8/2020	8:50:00	60.2	57.6	59.1						
11/8/2020	8:50:00	11/8/2020	8:55:00	60.5	57.8	59.2						
11/8/2020	8:55:00	11/8/2020	9:00:00	60.8	58.4	60.0						
11/8/2020	9:00:00	11/8/2020	9:05:00	60.2	58.1	59.2	61.4	64.4	58.3	61.3	60.0	63.0
11/8/2020	9:05:00	11/8/2020	9:10:00	61.7	58.4	60.3						
11/8/2020	9:10:00	11/8/2020	9:15:00	62.5	58.1	60.7						
11/8/2020	9:15:00	11/8/2020	9:20:00	61.0	58.3	59.9						
11/8/2020	9:20:00	11/8/2020	9:25:00	60.2	58.2	59.3						
11/8/2020	9:25:00	11/8/2020	9:30:00	62.0	58.5	60.3						
11/8/2020	9:30:00	11/8/2020	9:35:00	61.2	58.1	59.8	60.8	63.8	58.1	61.1	59.6	62.6
11/8/2020	9:35:00	11/8/2020	9:40:00	60.0	57.8	59.0						
11/8/2020	9:40:00	11/8/2020	9:45:00	60.2	58.0	59.2						
11/8/2020	9:45:00	11/8/2020	9:50:00	60.2	57.5	59.0						
11/8/2020	9:50:00	11/8/2020	9:55:00	61.5	58.3	60.2						
11/8/2020	9:55:00	11/8/2020	10:00:00	61.3	58.7	60.0						
11/8/2020	10:00:00	11/8/2020	10:05:00	61.0	58.0	59.6	61.8	64.8	58.6	61.6	60.4	63.4
11/8/2020	10:05:00	11/8/2020	10:10:00	62.0	58.9	60.9						
11/8/2020	10:10:00	11/8/2020	10:15:00	61.6	58.8	60.3						
11/8/2020	10:15:00	11/8/2020	10:20:00	62.0	59.0	60.8						
11/8/2020	10:20:00	11/8/2020	10:25:00	61.7	58.1	60.2						
11/8/2020	10:25:00	11/8/2020	10:30:00	62.5	58.6	60.7						
11/8/2020	10:30:00	11/8/2020	10:35:00	61.9	58.2	60.2	62.6	65.6	58.9	61.9	61.0	64.0
11/8/2020	10:35:00	11/8/2020	10:40:00	61.8	58.4	60.6						
11/8/2020	10:40:00	11/8/2020	10:45:00	63.3	58.9	61.3						
11/8/2020	10:45:00	11/8/2020	10:50:00	63.4	59.7	62.0						
11/8/2020	10:50:00	11/8/2020	10:55:00	63.1	59.5	61.5						
11/8/2020	10:55:00	11/8/2020	11:00:00	61.6	58.6	60.2						
11/8/2020	11:00:00	11/8/2020	11:05:00	62.7	59.1	61.3	62.0	65.0	58.7	61.7	60.7	63.7
11/8/2020	11:05:00	11/8/2020	11:10:00	62.3	58.3	60.7						
11/8/2020	11:10:00	11/8/2020	11:15:00	61.1	58.7	60.1						
11/8/2020	11:15:00	11/8/2020	11:20:00	61.5	58.9	60.5						
11/8/2020	11:20:00	11/8/2020	11:25:00	62.2	58.8	60.9						
11/8/2020	11:25:00	11/8/2020	11:30:00	62.2	58.2	60.4						
11/8/2020	11:30:00	11/8/2020	11:35:00	63.3	59.6	61.7	61.5	64.5	58.2	61.2	60.1	63.1
11/8/2020	11:35:00	11/8/2020	11:40:00	61.8	59.0	61.0						
11/8/2020	11:40:00	11/8/2020	11:45:00	62.0	58.8	60.5						
11/8/2020	11:45:00	11/8/2020	11:50:00	59.9	57.5	58.8						
11/8/2020	11:50:00	11/8/2020	11:55:00	60.7	56.6	59.1						
11/8/2020	11:55:00	11/8/2020	12:00:00	60.4	56.5	58.8						
11/8/2020	12:00:00	11/8/2020	12:05:00	61.4	56.0	59.1	62.7	65.7	56.7	59.7	60.3	63.3
11/8/2020	12:05:00	11/8/2020	12:10:00	61.6	56.5	59.7						
11/8/2020	12:10:00	11/8/2020	12:15:00	61.7	56.6	59.4						
11/8/2020	12:15:00	11/8/2020	12:20:00	63.5	56.6	60.9						
11/8/2020	12:20:00	11/8/2020	12:25:00	62.5	57.1	60.8						
11/8/2020	12:25:00	11/8/2020	12:30:00	64.5	57.1	61.5						

11/8/2020	12:30:00	11/8/2020	12:35:00	62.4	56.7	60.6	61.2	64.2	56.5	59.5	59.4	62.4
11/8/2020	12:35:00	11/8/2020	12:40:00	62.4	56.3	59.9						
11/8/2020	12:40:00	11/8/2020	12:45:00	59.7	56.1	58.1						
11/8/2020	12:45:00	11/8/2020	12:50:00	60.5	55.7	58.3						
11/8/2020	12:50:00	11/8/2020	12:55:00	61.3	57.5	60.0						
11/8/2020	12:55:00	11/8/2020	13:00:00	60.4	56.4	58.7						
11/8/2020	13:00:00	11/8/2020	13:05:00	65.5	57.6	63.1	64.8	67.8	58.9	61.9	62.9	65.9
11/8/2020	13:05:00	11/8/2020	13:10:00	63.9	58.7	61.9						
11/8/2020	13:10:00	11/8/2020	13:15:00	64.0	59.2	62.1						
11/8/2020	13:15:00	11/8/2020	13:20:00	66.4	58.9	64.6						
11/8/2020	13:20:00	11/8/2020	13:25:00	63.1	59.2	61.4						
11/8/2020	13:25:00	11/8/2020	13:30:00	65.2	59.5	63.4						
11/8/2020	13:30:00	11/8/2020	13:35:00	62.8	58.9	61.4	62.9	65.9	59.4	62.4	61.7	64.7
11/8/2020	13:35:00	11/8/2020	13:40:00	63.3	60.3	62.3						
11/8/2020	13:40:00	11/8/2020	13:45:00	62.5	59.6	61.2						
11/8/2020	13:45:00	11/8/2020	13:50:00	63.1	59.7	61.6						
11/8/2020	13:50:00	11/8/2020	13:55:00	63.7	59.3	62.7						
11/8/2020	13:55:00	11/8/2020	14:00:00	61.7	58.6	60.4						
11/8/2020	14:00:00	11/8/2020	14:05:00	63.7	59.6	61.8	63.3	66.3	59.4	62.4	61.8	64.8
11/8/2020	14:05:00	11/8/2020	14:10:00	63.5	59.3	61.8						
11/8/2020	14:10:00	11/8/2020	14:15:00	64.1	59.8	63.1						
11/8/2020	14:15:00	11/8/2020	14:20:00	63.0	59.6	61.4						
11/8/2020	14:20:00	11/8/2020	14:25:00	63.1	59.8	61.6						
11/8/2020	14:25:00	11/8/2020	14:30:00	62.1	58.2	60.9						
11/8/2020	14:30:00	11/8/2020	14:35:00	65.7	58.3	64.7	63.9	66.9	58.7	61.7	62.4	65.4
11/8/2020	14:35:00	11/8/2020	14:40:00	63.2	59.1	61.4						
11/8/2020	14:40:00	11/8/2020	14:45:00	63.9	58.8	62.6						
11/8/2020	14:45:00	11/8/2020	14:50:00	64.9	59.1	62.4						
11/8/2020	14:50:00	11/8/2020	14:55:00	62.3	58.7	60.7						
11/8/2020	14:55:00	11/8/2020	15:00:00	62.3	58.4	61.4						
11/8/2020	15:00:00	11/8/2020	15:05:00	62.5	58.1	62.0	62.0	65.0	58.4	61.4	60.7	63.7
11/8/2020	15:05:00	11/8/2020	15:10:00	61.8	58.6	60.4						
11/8/2020	15:10:00	11/8/2020	15:15:00	60.8	57.9	59.5						
11/8/2020	15:15:00	11/8/2020	15:20:00	61.7	58.0	60.0						
11/8/2020	15:20:00	11/8/2020	15:25:00	61.9	58.3	60.4						
11/8/2020	15:25:00	11/8/2020	15:30:00	63.1	59.3	61.4						
11/8/2020	15:30:00	11/8/2020	15:35:00	62.5	58.2	60.8	62.2	65.2	58.5	61.5	60.6	63.6
11/8/2020	15:35:00	11/8/2020	15:40:00	61.9	58.6	60.4						
11/8/2020	15:40:00	11/8/2020	15:45:00	62.2	58.4	60.5						
11/8/2020	15:45:00	11/8/2020	15:50:00	62.0	59.1	60.6						
11/8/2020	15:50:00	11/8/2020	15:55:00	61.7	58.4	60.5						
11/8/2020	15:55:00	11/8/2020	16:00:00	62.7	58.2	60.9						
11/8/2020	16:00:00	11/8/2020	16:05:00	60.9	58.3	59.7	62.0	65.0	58.5	61.5	60.4	63.4
11/8/2020	16:05:00	11/8/2020	16:10:00	62.8	58.7	61.0						
11/8/2020	16:10:00	11/8/2020	16:15:00	63.0	58.8	60.9						
11/8/2020	16:15:00	11/8/2020	16:20:00	61.2	58.4	59.9						
11/8/2020	16:20:00	11/8/2020	16:25:00	61.8	58.3	60.5						
11/8/2020	16:25:00	11/8/2020	16:30:00	61.7	58.5	60.2						
11/8/2020	16:30:00	11/8/2020	16:35:00	62.9	60.0	61.7	64.9	67.9	60.0	63.0	63.1	66.1
11/8/2020	16:35:00	11/8/2020	16:40:00	67.5	59.7	64.6						
11/8/2020	16:40:00	11/8/2020	16:45:00	63.2	59.7	62.7						
11/8/2020	16:45:00	11/8/2020	16:50:00	66.7	59.8	64.5						
11/8/2020	16:50:00	11/8/2020	16:55:00	63.2	60.0	61.7						
11/8/2020	16:55:00	11/8/2020	17:00:00	63.3	60.6	62.3						
11/8/2020	17:00:00	11/8/2020	17:05:00	63.3	58.0	61.4	61.1	64.1	57.1	60.1	59.5	62.5
11/8/2020	17:05:00	11/8/2020	17:10:00	60.2	56.9	58.8						
11/8/2020	17:10:00	11/8/2020	17:15:00	60.0	57.0	58.7						
11/8/2020	17:15:00	11/8/2020	17:20:00	60.4	57.4	59.1						
11/8/2020	17:20:00	11/8/2020	17:25:00	60.7	56.7	59.3						
11/8/2020	17:25:00	11/8/2020	17:30:00	60.8	56.2	58.9						
11/8/2020	17:30:00	11/8/2020	17:35:00	62.5	56.6	60.3	61.6	64.6	56.7	59.7	59.7	62.7
11/8/2020	17:35:00	11/8/2020	17:40:00	62.1	56.7	59.9						
11/8/2020	17:40:00	11/8/2020	17:45:00	60.3	56.6	58.8						
11/8/2020	17:45:00	11/8/2020	17:50:00	60.0	56.1	58.3						
11/8/2020	17:50:00	11/8/2020	17:55:00	62.7	57.7	61.0						
11/8/2020	17:55:00	11/8/2020	18:00:00	61.1	56.5	59.4						
11/8/2020	18:00:00	11/8/2020	18:05:00	61.2	56.2	59.0	61.2	64.2	56.0	59.0	59.8	62.8
11/8/2020	18:05:00	11/8/2020	18:10:00	62.4	55.9	60.7						
11/8/2020	18:10:00	11/8/2020	18:15:00	62.9	56.8	62.0						
11/8/2020	18:15:00	11/8/2020	18:20:00	60.0	55.7	59.0						
11/8/2020	18:20:00	11/8/2020	18:25:00	59.7	55.8	58.5						
11/8/2020	18:25:00	11/8/2020	18:30:00	60.1	55.7	58.6						
11/8/2020	18:30:00	11/8/2020	18:35:00	60.7	55.7	59.8	60.1	63.1	55.8	58.8	58.7	61.7
11/8/2020	18:35:00	11/8/2020	18:40:00	59.8	55.9	58.7						
11/8/2020	18:40:00	11/8/2020	18:45:00	59.7	55.8	58.2						
11/8/2020	18:45:00	11/8/2020	18:50:00	59.5	55.8	57.8						
11/8/2020	18:50:00	11/8/2020	18:55:00	59.7	55.7	58.1						
11/8/2020	18:55:00	11/8/2020	19:00:00	60.9	56.1	59.0						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
12/8/2020	7:00:00	12/8/2020	7:05:00	58.5	51.4	55.6	57.9	60.9	52.1	55.1	55.4	58.4
12/8/2020	7:05:00	12/8/2020	7:10:00	58.8	51.9	55.8						
12/8/2020	7:10:00	12/8/2020	7:15:00	57.4	51.7	54.9						
12/8/2020	7:15:00	12/8/2020	7:20:00	56.0	51.8	54.1						
12/8/2020	7:20:00	12/8/2020	7:25:00	57.9	52.8	55.6						
12/8/2020	7:25:00	12/8/2020	7:30:00	58.2	52.9	56.0						
12/8/2020	7:30:00	12/8/2020	7:35:00	57.8	53.5	56.0	61.6	64.6	56.1	59.1	59.5	62.5
12/8/2020	7:35:00	12/8/2020	7:40:00	59.9	53.6	57.5						
12/8/2020	7:40:00	12/8/2020	7:45:00	64.0	58.1	61.8						
12/8/2020	7:45:00	12/8/2020	7:50:00	62.6	57.3	60.6						
12/8/2020	7:50:00	12/8/2020	7:55:00	60.8	56.3	58.9						
12/8/2020	7:55:00	12/8/2020	8:00:00	62.0	55.9	59.6						
12/8/2020	8:00:00	12/8/2020	8:05:00	60.5	55.7	58.4	60.6	63.6	55.8	58.8	58.6	61.6
12/8/2020	8:05:00	12/8/2020	8:10:00	59.2	55.1	57.3						
12/8/2020	8:10:00	12/8/2020	8:15:00	60.0	55.3	58.0						
12/8/2020	8:15:00	12/8/2020	8:20:00	60.2	55.5	58.1						
12/8/2020	8:20:00	12/8/2020	8:25:00	61.7	56.8	59.8						
12/8/2020	8:25:00	12/8/2020	8:30:00	61.4	56.4	59.3						
12/8/2020	8:30:00	12/8/2020	8:35:00	60.3	57.1	58.9	61.3	64.3	57.9	60.9	59.8	62.8
12/8/2020	8:35:00	12/8/2020	8:40:00	61.5	57.1	59.6						
12/8/2020	8:40:00	12/8/2020	8:45:00	60.8	57.6	59.4						
12/8/2020	8:45:00	12/8/2020	8:50:00	61.4	57.9	60.0						
12/8/2020	8:50:00	12/8/2020	8:55:00	61.7	58.7	60.3						
12/8/2020	8:55:00	12/8/2020	9:00:00	61.8	58.7	60.5						
12/8/2020	9:00:00	12/8/2020	9:05:00	62.1	58.4	60.5	62.9	65.9	58.9	61.9	61.2	64.2
12/8/2020	9:05:00	12/8/2020	9:10:00	62.0	58.3	60.6						
12/8/2020	9:10:00	12/8/2020	9:15:00	62.3	58.8	60.6						
12/8/2020	9:15:00	12/8/2020	9:20:00	64.8	59.7	62.7						
12/8/2020	9:20:00	12/8/2020	9:25:00	62.2	58.8	60.7						
12/8/2020	9:25:00	12/8/2020	9:30:00	63.4	59.5	61.7						
12/8/2020	9:30:00	12/8/2020	9:35:00	61.7	58.5	60.3	63.5	66.5	58.9	61.9	61.7	64.7
12/8/2020	9:35:00	12/8/2020	9:40:00	60.8	58.5	59.7						
12/8/2020	9:40:00	12/8/2020	9:45:00	65.5	58.9	63.0						
12/8/2020	9:45:00	12/8/2020	9:50:00	64.8	59.3	63.0						
12/8/2020	9:50:00	12/8/2020	9:55:00	63.8	59.5	62.1						
12/8/2020	9:55:00	12/8/2020	10:00:00	62.4	58.8	60.8						
12/8/2020	10:00:00	12/8/2020	10:05:00	63.3	59.3	61.3	63.0	66.0	58.9	61.9	61.2	64.2
12/8/2020	10:05:00	12/8/2020	10:10:00	62.0	59.0	60.6						
12/8/2020	10:10:00	12/8/2020	10:15:00	62.4	59.5	60.9						
12/8/2020	10:15:00	12/8/2020	10:20:00	64.1	58.7	62.2						
12/8/2020	10:20:00	12/8/2020	10:25:00	62.7	58.5	61.2						
12/8/2020	10:25:00	12/8/2020	10:30:00	62.9	58.5	60.9						
12/8/2020	10:30:00	12/8/2020	10:35:00	63.6	58.8	62.4	62.2	65.2	58.6	61.6	60.7	63.7
12/8/2020	10:35:00	12/8/2020	10:40:00	61.7	58.4	60.2						
12/8/2020	10:40:00	12/8/2020	10:45:00	61.2	59.0	60.1						
12/8/2020	10:45:00	12/8/2020	10:50:00	61.6	58.5	60.2						
12/8/2020	10:50:00	12/8/2020	10:55:00	61.3	58.8	60.2						
12/8/2020	10:55:00	12/8/2020	11:00:00	63.2	58.1	60.7						
12/8/2020	11:00:00	12/8/2020	11:05:00	65.6	59.5	62.9	63.2	66.2	58.2	61.2	61.0	64.0
12/8/2020	11:05:00	12/8/2020	11:10:00	61.2	58.1	59.7						
12/8/2020	11:10:00	12/8/2020	11:15:00	60.6	57.8	59.4						
12/8/2020	11:15:00	12/8/2020	11:20:00	61.5	57.7	61.0						
12/8/2020	11:20:00	12/8/2020	11:25:00	65.7	57.3	61.7						
12/8/2020	11:25:00	12/8/2020	11:30:00	61.2	58.3	59.9						
12/8/2020	11:30:00	12/8/2020	11:35:00	59.7	57.5	58.7	61.6	64.6	57.6	60.6	60.4	63.4
12/8/2020	11:35:00	12/8/2020	11:40:00	61.7	57.9	60.1						
12/8/2020	11:40:00	12/8/2020	11:45:00	60.2	58.1	59.2						
12/8/2020	11:45:00	12/8/2020	11:50:00	62.8	57.9	62.6						
12/8/2020	11:50:00	12/8/2020	11:55:00	60.4	57.4	59.1						
12/8/2020	11:55:00	12/8/2020	12:00:00	63.3	57.0	61.3						
12/8/2020	12:00:00	12/8/2020	12:05:00	64.1	57.5	62.6	66.3	69.3	60.4	63.4	64.4	67.4
12/8/2020	12:05:00	12/8/2020	12:10:00	65.2	58.4	64.9						
12/8/2020	12:10:00	12/8/2020	12:15:00	70.3	65.3	66.3						
12/8/2020	12:15:00	12/8/2020	12:20:00	65.1	58.3	64.0						
12/8/2020	12:20:00	12/8/2020	12:25:00	64.3	57.4	63.5						
12/8/2020	12:25:00	12/8/2020	12:30:00	65.2	58.3	64.1						

12/8/2020	12:30:00	12/8/2020	12:35:00	60.3	57.6	59.6	61.1	64.1	57.6	60.6	60.1	63.1
12/8/2020	12:35:00	12/8/2020	12:40:00	62.3	58.4	61.3						
12/8/2020	12:40:00	12/8/2020	12:45:00	60.3	57.4	59.5						
12/8/2020	12:45:00	12/8/2020	12:50:00	60.4	57.4	59.3						
12/8/2020	12:50:00	12/8/2020	12:55:00	61.4	57.3	60.3						
12/8/2020	12:55:00	12/8/2020	13:00:00	61.5	57.4	60.4						
12/8/2020	13:00:00	12/8/2020	13:05:00	60.6	57.3	59.6	61.2	64.2	57.9	60.9	60.0	63.0
12/8/2020	13:05:00	12/8/2020	13:10:00	64.3	60.3	62.3						
12/8/2020	13:10:00	12/8/2020	13:15:00	59.2	56.6	58.4						
12/8/2020	13:15:00	12/8/2020	13:20:00	60.6	57.5	59.9						
12/8/2020	13:20:00	12/8/2020	13:25:00	60.3	57.4	59.3						
12/8/2020	13:25:00	12/8/2020	13:30:00	60.4	57.3	59.4						
12/8/2020	13:30:00	12/8/2020	13:35:00	65.0	61.4	63.4	65.1	68.1	60.8	63.8	63.2	66.2
12/8/2020	13:35:00	12/8/2020	13:40:00	68.0	61.5	65.2						
12/8/2020	13:40:00	12/8/2020	13:45:00	63.2	60.2	61.8						
12/8/2020	13:45:00	12/8/2020	13:50:00	65.0	61.1	63.3						
12/8/2020	13:50:00	12/8/2020	13:55:00	63.8	60.4	62.2						
12/8/2020	13:55:00	12/8/2020	14:00:00	63.6	60.2	62.1						
12/8/2020	14:00:00	12/8/2020	14:05:00	62.9	59.5	61.4	63.8	66.8	59.9	62.9	62.0	65.0
12/8/2020	14:05:00	12/8/2020	14:10:00	62.6	59.3	61.2						
12/8/2020	14:10:00	12/8/2020	14:15:00	64.2	59.8	62.2						
12/8/2020	14:15:00	12/8/2020	14:20:00	64.8	60.1	62.8						
12/8/2020	14:20:00	12/8/2020	14:25:00	64.6	60.6	62.6						
12/8/2020	14:25:00	12/8/2020	14:30:00	63.0	59.7	61.5						
12/8/2020	14:30:00	12/8/2020	14:35:00	64.7	60.4	62.6	64.5	67.5	59.7	62.7	62.3	65.3
12/8/2020	14:35:00	12/8/2020	14:40:00	63.0	59.8	61.7						
12/8/2020	14:40:00	12/8/2020	14:45:00	64.7	58.9	60.4						
12/8/2020	14:45:00	12/8/2020	14:50:00	64.5	59.4	62.0						
12/8/2020	14:50:00	12/8/2020	14:55:00	65.5	60.1	63.5						
12/8/2020	14:55:00	12/8/2020	15:00:00	64.5	59.5	62.8						
12/8/2020	15:00:00	12/8/2020	15:05:00	64.8	59.2	62.8	63.4	66.4	58.7	61.7	61.4	64.4
12/8/2020	15:05:00	12/8/2020	15:10:00	64.1	58.4	61.8						
12/8/2020	15:10:00	12/8/2020	15:15:00	63.8	58.5	61.4						
12/8/2020	15:15:00	12/8/2020	15:20:00	62.5	58.5	60.7						
12/8/2020	15:20:00	12/8/2020	15:25:00	62.7	58.6	60.9						
12/8/2020	15:25:00	12/8/2020	15:30:00	61.9	59.0	60.6						
12/8/2020	15:30:00	12/8/2020	15:35:00	69.2	59.8	66.0	65.2	68.2	59.0	62.0	63.1	66.1
12/8/2020	15:35:00	12/8/2020	15:40:00	62.2	57.9	60.4						
12/8/2020	15:40:00	12/8/2020	15:45:00	66.1	58.8	64.5						
12/8/2020	15:45:00	12/8/2020	15:50:00	63.5	58.8	62.4						
12/8/2020	15:50:00	12/8/2020	15:55:00	62.8	59.7	61.6						
12/8/2020	15:55:00	12/8/2020	16:00:00	61.9	58.6	60.4						
12/8/2020	16:00:00	12/8/2020	16:05:00	65.4	58.7	62.4	63.3	66.3	58.5	61.5	61.2	64.2
12/8/2020	16:05:00	12/8/2020	16:10:00	63.6	59.3	62.1						
12/8/2020	16:10:00	12/8/2020	16:15:00	63.1	58.6	61.2						
12/8/2020	16:15:00	12/8/2020	16:20:00	61.9	58.4	60.5						
12/8/2020	16:20:00	12/8/2020	16:25:00	62.2	58.2	60.5						
12/8/2020	16:25:00	12/8/2020	16:30:00	62.6	57.7	60.2						
12/8/2020	16:30:00	12/8/2020	16:35:00	60.6	58.2	59.5	62.7	65.7	58.0	61.0	61.1	64.1
12/8/2020	16:35:00	12/8/2020	16:40:00	61.1	58.0	59.8						
12/8/2020	16:40:00	12/8/2020	16:45:00	61.4	57.5	60.7						
12/8/2020	16:45:00	12/8/2020	16:50:00	64.9	58.0	63.6						
12/8/2020	16:50:00	12/8/2020	16:55:00	64.2	57.9	61.5						
12/8/2020	16:55:00	12/8/2020	17:00:00	62.0	58.1	60.2						
12/8/2020	17:00:00	12/8/2020	17:05:00	61.8	58.1	60.1	63.4	66.4	58.3	61.3	61.3	64.3
12/8/2020	17:05:00	12/8/2020	17:10:00	63.6	58.6	62.1						
12/8/2020	17:10:00	12/8/2020	17:15:00	66.9	59.8	64.1						
12/8/2020	17:15:00	12/8/2020	17:20:00	62.4	58.2	60.6						
12/8/2020	17:20:00	12/8/2020	17:25:00	61.3	57.0	59.5						
12/8/2020	17:25:00	12/8/2020	17:30:00	60.8	57.3	59.5						
12/8/2020	17:30:00	12/8/2020	17:35:00	63.2	58.2	61.5	63.3	66.3	58.0	61.0	61.2	64.2
12/8/2020	17:35:00	12/8/2020	17:40:00	64.0	58.1	61.5						
12/8/2020	17:40:00	12/8/2020	17:45:00	62.9	57.8	60.8						
12/8/2020	17:45:00	12/8/2020	17:50:00	62.2	58.0	60.4						
12/8/2020	17:50:00	12/8/2020	17:55:00	64.5	58.3	61.9						
12/8/2020	17:55:00	12/8/2020	18:00:00	62.8	57.5	60.9						
12/8/2020	18:00:00	12/8/2020	18:05:00	63.2	57.3	60.6	61.6	64.6	56.4	59.4	59.4	62.4
12/8/2020	18:05:00	12/8/2020	18:10:00	61.0	56.6	59.1						
12/8/2020	18:10:00	12/8/2020	18:15:00	60.9	56.6	59.0						
12/8/2020	18:15:00	12/8/2020	18:20:00	63.0	56.6	60.4						
12/8/2020	18:20:00	12/8/2020	18:25:00	60.6	55.7	59.0						
12/8/2020	18:25:00	12/8/2020	18:30:00	59.5	55.4	57.7						
12/8/2020	18:30:00	12/8/2020	18:35:00	59.8	55.6	58.0	61.2	64.2	55.7	58.7	59.2	62.2
12/8/2020	18:35:00	12/8/2020	18:40:00	60.2	55.4	58.5						
12/8/2020	18:40:00	12/8/2020	18:45:00	62.7	56.0	60.1						
12/8/2020	18:45:00	12/8/2020	18:50:00	60.7	55.9	58.6						
12/8/2020	18:50:00	12/8/2020	18:55:00	60.8	55.5	58.8						
12/8/2020	18:55:00	12/8/2020	19:00:00	62.0	55.8	60.5						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
13/8/2020	7:00:00	13/8/2020	7:05:00	57.3	51.1	54.3	58.2	61.2	52.1	55.1	55.2	58.2
13/8/2020	7:05:00	13/8/2020	7:10:00	57.6	51.7	55.3						
13/8/2020	7:10:00	13/8/2020	7:15:00	56.4	52.0	54.6						
13/8/2020	7:15:00	13/8/2020	7:20:00	58.4	52.2	55.9						
13/8/2020	7:20:00	13/8/2020	7:25:00	60.4	52.8	54.6						
13/8/2020	7:25:00	13/8/2020	7:30:00	58.2	52.5	56.0						
13/8/2020	7:30:00	13/8/2020	7:35:00	60.5	52.8	57.6	60.3	63.3	53.9	56.9	57.8	60.8
13/8/2020	7:35:00	13/8/2020	7:40:00	61.9	54.0	59.1						
13/8/2020	7:40:00	13/8/2020	7:45:00	60.9	53.7	58.3						
13/8/2020	7:45:00	13/8/2020	7:50:00	57.7	53.9	56.2						
13/8/2020	7:50:00	13/8/2020	7:55:00	59.7	53.9	57.1						
13/8/2020	7:55:00	13/8/2020	8:00:00	60.0	54.8	58.0						
13/8/2020	8:00:00	13/8/2020	8:05:00	58.6	54.6	56.8	60.8	63.8	56.3	59.3	58.8	61.8
13/8/2020	8:05:00	13/8/2020	8:10:00	59.2	54.9	57.5						
13/8/2020	8:10:00	13/8/2020	8:15:00	59.6	55.2	57.8						
13/8/2020	8:15:00	13/8/2020	8:20:00	59.9	56.1	58.3						
13/8/2020	8:20:00	13/8/2020	8:25:00	63.8	57.4	60.9						
13/8/2020	8:25:00	13/8/2020	8:30:00	61.4	58.2	60.0						
13/8/2020	8:30:00	13/8/2020	8:35:00	61.3	59.0	60.3	63.4	66.4	60.1	63.1	62.2	65.2
13/8/2020	8:35:00	13/8/2020	8:40:00	63.1	59.7	61.8						
13/8/2020	8:40:00	13/8/2020	8:45:00	63.3	60.3	62.0						
13/8/2020	8:45:00	13/8/2020	8:50:00	63.6	60.3	62.3						
13/8/2020	8:50:00	13/8/2020	8:55:00	64.4	61.0	63.0						
13/8/2020	8:55:00	13/8/2020	9:00:00	64.3	60.0	63.2						
13/8/2020	9:00:00	13/8/2020	9:05:00	64.8	59.5	63.4	62.2	65.2	58.5	61.5	60.8	63.8
13/8/2020	9:05:00	13/8/2020	9:10:00	62.0	58.7	60.4						
13/8/2020	9:10:00	13/8/2020	9:15:00	60.9	57.8	59.7						
13/8/2020	9:15:00	13/8/2020	9:20:00	62.8	59.1	61.2						
13/8/2020	9:20:00	13/8/2020	9:25:00	60.4	58.0	59.2						
13/8/2020	9:25:00	13/8/2020	9:30:00	60.6	57.9	59.2						
13/8/2020	9:30:00	13/8/2020	9:35:00	62.4	58.0	60.4	63.2	66.2	58.6	61.6	61.0	64.0
13/8/2020	9:35:00	13/8/2020	9:40:00	62.0	58.9	60.5						
13/8/2020	9:40:00	13/8/2020	9:45:00	60.6	58.4	59.5						
13/8/2020	9:45:00	13/8/2020	9:50:00	64.4	58.9	62.7						
13/8/2020	9:50:00	13/8/2020	9:55:00	65.9	58.8	62.0						
13/8/2020	9:55:00	13/8/2020	10:00:00	61.9	58.7	60.3						
13/8/2020	10:00:00	13/8/2020	10:05:00	61.2	58.9	60.2	62.8	65.8	59.4	62.4	61.5	64.5
13/8/2020	10:05:00	13/8/2020	10:10:00	61.4	58.7	60.3						
13/8/2020	10:10:00	13/8/2020	10:15:00	64.9	60.2	63.7						
13/8/2020	10:15:00	13/8/2020	10:20:00	63.2	59.9	61.8						
13/8/2020	10:20:00	13/8/2020	10:25:00	62.8	59.6	61.4						
13/8/2020	10:25:00	13/8/2020	10:30:00	62.1	58.6	60.7						
13/8/2020	10:30:00	13/8/2020	10:35:00	63.3	59.6	61.6	63.1	66.1	59.3	62.3	61.4	64.4
13/8/2020	10:35:00	13/8/2020	10:40:00	63.2	59.3	62.3						
13/8/2020	10:40:00	13/8/2020	10:45:00	61.4	58.2	60.0						
13/8/2020	10:45:00	13/8/2020	10:50:00	63.5	59.7	61.9						
13/8/2020	10:50:00	13/8/2020	10:55:00	63.3	59.3	61.2						
13/8/2020	10:55:00	13/8/2020	11:00:00	63.3	59.4	61.1						
13/8/2020	11:00:00	13/8/2020	11:05:00	69.6	62.3	66.6	65.4	68.4	60.7	63.7	63.4	66.4
13/8/2020	11:05:00	13/8/2020	11:10:00	65.0	61.7	63.7						
13/8/2020	11:10:00	13/8/2020	11:15:00	64.1	60.9	62.7						
13/8/2020	11:15:00	13/8/2020	11:20:00	63.8	60.1	62.4						
13/8/2020	11:20:00	13/8/2020	11:25:00	62.3	59.3	61.0						
13/8/2020	11:25:00	13/8/2020	11:30:00	62.1	58.8	61.0						
13/8/2020	11:30:00	13/8/2020	11:35:00	61.8	58.7	60.4	64.5	67.5	58.6	61.6	63.3	66.3
13/8/2020	11:35:00	13/8/2020	11:40:00	61.3	58.5	60.0						
13/8/2020	11:40:00	13/8/2020	11:45:00	62.9	58.3	60.9						
13/8/2020	11:45:00	13/8/2020	11:50:00	63.0	58.5	62.1						
13/8/2020	11:50:00	13/8/2020	11:55:00	68.4	58.8	67.8						
13/8/2020	11:55:00	13/8/2020	12:00:00	64.8	58.8	62.5						
13/8/2020	12:00:00	13/8/2020	12:05:00	62.1	58.0	60.4	65.4	68.4	57.8	60.8	63.5	66.5
13/8/2020	12:05:00	13/8/2020	12:10:00	67.1	57.4	65.0						
13/8/2020	12:10:00	13/8/2020	12:15:00	63.9	58.1	61.5						
13/8/2020	12:15:00	13/8/2020	12:20:00	67.4	58.0	65.7						
13/8/2020	12:20:00	13/8/2020	12:25:00	65.8	57.9	64.6						
13/8/2020	12:25:00	13/8/2020	12:30:00	63.2	57.2	60.7						

13/8/2020	12:30:00	13/8/2020	12:35:00	62.5	57.9	60.4	61.7	64.7	57.0	60.0	60.1	63.1
13/8/2020	12:35:00	13/8/2020	12:40:00	63.0	57.6	61.6						
13/8/2020	12:40:00	13/8/2020	12:45:00	60.3	57.1	58.9						
13/8/2020	12:45:00	13/8/2020	12:50:00	61.4	56.3	59.8						
13/8/2020	12:50:00	13/8/2020	12:55:00	61.5	56.4	59.8						
13/8/2020	12:55:00	13/8/2020	13:00:00	61.1	56.6	59.3						
13/8/2020	13:00:00	13/8/2020	13:05:00	62.4	58.3	60.6	63.5	66.5	58.4	61.4	61.4	64.4
13/8/2020	13:05:00	13/8/2020	13:10:00	63.8	58.2	61.8						
13/8/2020	13:10:00	13/8/2020	13:15:00	62.3	58.6	60.6						
13/8/2020	13:15:00	13/8/2020	13:20:00	62.9	58.8	60.9						
13/8/2020	13:20:00	13/8/2020	13:25:00	66.4	59.1	63.9						
13/8/2020	13:25:00	13/8/2020	13:30:00	60.7	57.5	59.3						
13/8/2020	13:30:00	13/8/2020	13:35:00	61.0	57.8	59.8	62.3	65.3	58.5	61.5	60.9	63.9
13/8/2020	13:35:00	13/8/2020	13:40:00	63.9	59.5	63.0						
13/8/2020	13:40:00	13/8/2020	13:45:00	61.5	57.9	59.9						
13/8/2020	13:45:00	13/8/2020	13:50:00	61.2	58.6	60.0						
13/8/2020	13:50:00	13/8/2020	13:55:00	62.2	58.6	60.8						
13/8/2020	13:55:00	13/8/2020	14:00:00	63.1	58.5	61.2						
13/8/2020	14:00:00	13/8/2020	14:05:00	61.3	59.0	60.4	67.3	70.3	60.7	63.7	64.8	67.8
13/8/2020	14:05:00	13/8/2020	14:10:00	62.1	58.9	60.5						
13/8/2020	14:10:00	13/8/2020	14:15:00	65.6	59.3	64.1						
13/8/2020	14:15:00	13/8/2020	14:20:00	66.4	59.4	65.1						
13/8/2020	14:20:00	13/8/2020	14:25:00	71.3	62.9	67.4						
13/8/2020	14:25:00	13/8/2020	14:30:00	68.8	62.6	66.7						
13/8/2020	14:30:00	13/8/2020	14:35:00	69.9	62.5	67.1	66.5	69.5	60.0	63.0	64.4	67.4
13/8/2020	14:35:00	13/8/2020	14:40:00	64.5	60.5	62.8						
13/8/2020	14:40:00	13/8/2020	14:45:00	63.9	60.2	63.0						
13/8/2020	14:45:00	13/8/2020	14:50:00	69.4	58.8	67.3						
13/8/2020	14:50:00	13/8/2020	14:55:00	62.0	58.5	60.4						
13/8/2020	14:55:00	13/8/2020	15:00:00	61.7	58.1	60.0						
13/8/2020	15:00:00	13/8/2020	15:05:00	61.9	58.2	60.3	62.5	65.5	58.1	61.1	60.5	63.5
13/8/2020	15:05:00	13/8/2020	15:10:00	61.5	58.0	59.7						
13/8/2020	15:10:00	13/8/2020	15:15:00	62.2	58.1	60.3						
13/8/2020	15:15:00	13/8/2020	15:20:00	63.6	58.8	61.6						
13/8/2020	15:20:00	13/8/2020	15:25:00	63.3	57.9	61.1						
13/8/2020	15:25:00	13/8/2020	15:30:00	61.8	57.6	60.0						
13/8/2020	15:30:00	13/8/2020	15:35:00	60.7	57.2	59.2	61.9	64.9	57.7	60.7	60.1	63.1
13/8/2020	15:35:00	13/8/2020	15:40:00	60.6	57.2	59.2						
13/8/2020	15:40:00	13/8/2020	15:45:00	62.7	57.7	60.7						
13/8/2020	15:45:00	13/8/2020	15:50:00	61.3	58.0	59.9						
13/8/2020	15:50:00	13/8/2020	15:55:00	63.2	58.3	61.1						
13/8/2020	15:55:00	13/8/2020	16:00:00	62.1	57.9	60.2						
13/8/2020	16:00:00	13/8/2020	16:05:00	61.3	56.8	59.3	61.0	64.0	57.1	60.1	59.3	62.3
13/8/2020	16:05:00	13/8/2020	16:10:00	60.2	56.5	58.7						
13/8/2020	16:10:00	13/8/2020	16:15:00	60.7	57.0	59.0						
13/8/2020	16:15:00	13/8/2020	16:20:00	60.3	57.3	59.0						
13/8/2020	16:20:00	13/8/2020	16:25:00	60.4	57.7	59.2						
13/8/2020	16:25:00	13/8/2020	16:30:00	62.5	57.2	60.4						
13/8/2020	16:30:00	13/8/2020	16:35:00	62.3	58.2	61.0	62.5	65.5	58.0	61.0	60.7	63.7
13/8/2020	16:35:00	13/8/2020	16:40:00	61.2	57.0	59.5						
13/8/2020	16:40:00	13/8/2020	16:45:00	62.2	57.9	60.4						
13/8/2020	16:45:00	13/8/2020	16:50:00	61.7	58.0	60.3						
13/8/2020	16:50:00	13/8/2020	16:55:00	64.4	58.4	62.1						
13/8/2020	16:55:00	13/8/2020	17:00:00	62.4	58.3	60.5						
13/8/2020	17:00:00	13/8/2020	17:05:00	64.1	58.1	62.9	65.2	68.2	58.3	61.3	63.3	66.3
13/8/2020	17:05:00	13/8/2020	17:10:00	61.0	58.2	59.8						
13/8/2020	17:10:00	13/8/2020	17:15:00	61.4	58.6	60.1						
13/8/2020	17:15:00	13/8/2020	17:20:00	69.2	58.8	65.4						
13/8/2020	17:20:00	13/8/2020	17:25:00	63.7	58.1	62.7						
13/8/2020	17:25:00	13/8/2020	17:30:00	66.0	58.1	65.7						
13/8/2020	17:30:00	13/8/2020	17:35:00	61.4	58.0	59.9	62.5	65.5	57.0	60.0	61.5	64.5
13/8/2020	17:35:00	13/8/2020	17:40:00	61.4	56.7	59.6						
13/8/2020	17:40:00	13/8/2020	17:45:00	60.2	57.1	58.7						
13/8/2020	17:45:00	13/8/2020	17:50:00	60.0	57.2	58.7						
13/8/2020	17:50:00	13/8/2020	17:55:00	64.9	56.6	64.7						
13/8/2020	17:55:00	13/8/2020	18:00:00	64.3	55.9	63.3						
13/8/2020	18:00:00	13/8/2020	18:05:00	60.6	56.2	58.6	61.7	64.7	56.4	59.4	59.4	62.4
13/8/2020	18:05:00	13/8/2020	18:10:00	62.3	56.7	60.0						
13/8/2020	18:10:00	13/8/2020	18:15:00	61.0	56.1	58.8						
13/8/2020	18:15:00	13/8/2020	18:20:00	61.4	56.7	59.3						
13/8/2020	18:20:00	13/8/2020	18:25:00	60.3	56.0	58.6						
13/8/2020	18:25:00	13/8/2020	18:30:00	63.8	56.4	60.6						
13/8/2020	18:30:00	13/8/2020	18:35:00	61.0	56.3	59.2	61.3	64.3	55.7	58.7	59.2	62.2
13/8/2020	18:35:00	13/8/2020	18:40:00	60.5	56.0	58.8						
13/8/2020	18:40:00	13/8/2020	18:45:00	60.1	55.6	58.5						
13/8/2020	18:45:00	13/8/2020	18:50:00	62.4	55.8	59.6						
13/8/2020	18:50:00	13/8/2020	18:55:00	62.9	55.6	60.5						
13/8/2020	18:55:00	13/8/2020	19:00:00	60.1	55.0	58.0						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
14/8/2020	7:00:00	14/8/2020	7:05:00	58.6	52.6	56.1	60.7	63.7	52.9	55.9	58.4	61.4
14/8/2020	7:05:00	14/8/2020	7:10:00	58.3	52.0	55.8						
14/8/2020	7:10:00	14/8/2020	7:15:00	58.7	52.7	56.1						
14/8/2020	7:15:00	14/8/2020	7:20:00	65.0	53.2	62.9						
14/8/2020	7:20:00	14/8/2020	7:25:00	60.4	53.5	57.7						
14/8/2020	7:25:00	14/8/2020	7:30:00	58.3	53.0	56.3						
14/8/2020	7:30:00	14/8/2020	7:35:00	66.0	53.7	64.1	62.6	65.6	54.4	57.4	60.3	63.3
14/8/2020	7:35:00	14/8/2020	7:40:00	62.8	53.7	59.5						
14/8/2020	7:40:00	14/8/2020	7:45:00	60.3	54.4	58.7						
14/8/2020	7:45:00	14/8/2020	7:50:00	60.4	55.0	58.1						
14/8/2020	7:50:00	14/8/2020	7:55:00	60.3	54.7	57.9						
14/8/2020	7:55:00	14/8/2020	8:00:00	62.7	54.9	60.0						
14/8/2020	8:00:00	14/8/2020	8:05:00	64.6	55.0	61.2	63.9	66.9	56.3	59.3	61.3	64.3
14/8/2020	8:05:00	14/8/2020	8:10:00	60.4	55.4	58.2						
14/8/2020	8:10:00	14/8/2020	8:15:00	60.3	54.6	57.7						
14/8/2020	8:15:00	14/8/2020	8:20:00	60.7	55.7	58.5						
14/8/2020	8:20:00	14/8/2020	8:25:00	68.0	56.9	65.4						
14/8/2020	8:25:00	14/8/2020	8:30:00	63.5	58.6	61.5						
14/8/2020	8:30:00	14/8/2020	8:35:00	63.3	58.2	61.0	62.8	65.8	58.7	61.7	61.1	64.1
14/8/2020	8:35:00	14/8/2020	8:40:00	63.8	59.0	62.3						
14/8/2020	8:40:00	14/8/2020	8:45:00	61.5	58.2	60.0						
14/8/2020	8:45:00	14/8/2020	8:50:00	62.4	59.4	61.0						
14/8/2020	8:50:00	14/8/2020	8:55:00	62.8	58.6	61.1						
14/8/2020	8:55:00	14/8/2020	9:00:00	62.7	58.7	61.0						
14/8/2020	9:00:00	14/8/2020	9:05:00	67.3	58.7	63.7	66.1	69.1	59.5	62.5	63.7	66.7
14/8/2020	9:05:00	14/8/2020	9:10:00	67.6	60.4	65.3						
14/8/2020	9:10:00	14/8/2020	9:15:00	65.6	59.9	63.8						
14/8/2020	9:15:00	14/8/2020	9:20:00	63.7	59.2	61.8						
14/8/2020	9:20:00	14/8/2020	9:25:00	65.1	58.9	62.8						
14/8/2020	9:25:00	14/8/2020	9:30:00	66.1	59.6	63.9						
14/8/2020	9:30:00	14/8/2020	9:35:00	64.9	58.9	62.6	66.4	69.4	59.3	62.3	63.3	66.3
14/8/2020	9:35:00	14/8/2020	9:40:00	64.8	59.2	62.5						
14/8/2020	9:40:00	14/8/2020	9:45:00	66.2	59.7	63.3						
14/8/2020	9:45:00	14/8/2020	9:50:00	64.6	59.5	62.2						
14/8/2020	9:50:00	14/8/2020	9:55:00	67.7	59.2	63.5						
14/8/2020	9:55:00	14/8/2020	10:00:00	68.5	59.1	64.9						
14/8/2020	10:00:00	14/8/2020	10:05:00	69.8	59.8	66.5	66.4	69.4	59.4	62.4	63.6	66.6
14/8/2020	10:05:00	14/8/2020	10:10:00	69.3	59.8	66.0						
14/8/2020	10:10:00	14/8/2020	10:15:00	62.5	58.3	60.6						
14/8/2020	10:15:00	14/8/2020	10:20:00	63.3	58.8	61.2						
14/8/2020	10:20:00	14/8/2020	10:25:00	61.7	58.9	60.4						
14/8/2020	10:25:00	14/8/2020	10:30:00	63.9	60.4	62.4						
14/8/2020	10:30:00	14/8/2020	10:35:00	63.7	60.5	62.4	63.5	66.5	59.2	62.2	61.6	64.6
14/8/2020	10:35:00	14/8/2020	10:40:00	62.4	59.5	61.1						
14/8/2020	10:40:00	14/8/2020	10:45:00	66.5	59.7	63.7						
14/8/2020	10:45:00	14/8/2020	10:50:00	62.7	58.7	60.9						
14/8/2020	10:50:00	14/8/2020	10:55:00	62.1	58.1	60.2						
14/8/2020	10:55:00	14/8/2020	11:00:00	61.3	57.8	59.9						
14/8/2020	11:00:00	14/8/2020	11:05:00	68.2	58.4	64.5	65.6	68.6	58.5	61.5	63.1	66.1
14/8/2020	11:05:00	14/8/2020	11:10:00	63.6	58.2	61.1						
14/8/2020	11:10:00	14/8/2020	11:15:00	68.7	58.7	66.8						
14/8/2020	11:15:00	14/8/2020	11:20:00	64.1	58.8	61.6						
14/8/2020	11:20:00	14/8/2020	11:25:00	61.7	58.5	60.2						
14/8/2020	11:25:00	14/8/2020	11:30:00	61.2	58.2	59.8						
14/8/2020	11:30:00	14/8/2020	11:35:00	62.3	58.6	60.7	63.2	66.2	58.8	61.8	61.4	64.4
14/8/2020	11:35:00	14/8/2020	11:40:00	64.6	58.8	62.4						
14/8/2020	11:40:00	14/8/2020	11:45:00	64.5	59.1	62.3						
14/8/2020	11:45:00	14/8/2020	11:50:00	61.8	58.9	60.6						
14/8/2020	11:50:00	14/8/2020	11:55:00	62.8	59.2	61.5						
14/8/2020	11:55:00	14/8/2020	12:00:00	62.5	57.9	60.5						
14/8/2020	12:00:00	14/8/2020	12:05:00	64.3	57.4	61.7	62.6	65.6	57.2	60.2	60.6	63.6
14/8/2020	12:05:00	14/8/2020	12:10:00	64.2	58.4	62.2						
14/8/2020	12:10:00	14/8/2020	12:15:00	61.8	57.4	60.5						
14/8/2020	12:15:00	14/8/2020	12:20:00	61.8	57.0	60.1						
14/8/2020	12:20:00	14/8/2020	12:25:00	60.3	56.4	58.6						
14/8/2020	12:25:00	14/8/2020	12:30:00	61.4	56.2	59.2						

14/8/2020	12:30:00	14/8/2020	12:35:00	61.2	56.2	59.2	62.1	65.1	56.4	59.4	60.0	63.0
14/8/2020	12:35:00	14/8/2020	12:40:00	61.1	56.2	59.1						
14/8/2020	12:40:00	14/8/2020	12:45:00	62.2	56.5	60.0						
14/8/2020	12:45:00	14/8/2020	12:50:00	63.3	56.6	60.6						
14/8/2020	12:50:00	14/8/2020	12:55:00	60.6	55.7	58.5						
14/8/2020	12:55:00	14/8/2020	13:00:00	63.2	57.3	61.8						
14/8/2020	13:00:00	14/8/2020	13:05:00	63.3	58.1	61.6	63.8	66.8	58.7	61.7	61.8	64.8
14/8/2020	13:05:00	14/8/2020	13:10:00	63.3	57.6	60.9						
14/8/2020	13:10:00	14/8/2020	13:15:00	62.7	58.9	61.1						
14/8/2020	13:15:00	14/8/2020	13:20:00	62.2	58.1	60.8						
14/8/2020	13:20:00	14/8/2020	13:25:00	64.5	59.0	62.4						
14/8/2020	13:25:00	14/8/2020	13:30:00	65.8	59.9	63.5						
14/8/2020	13:30:00	14/8/2020	13:35:00	65.0	59.3	62.8	64.2	67.2	59.2	62.2	62.3	65.3
14/8/2020	13:35:00	14/8/2020	13:40:00	64.8	59.4	62.5						
14/8/2020	13:40:00	14/8/2020	13:45:00	64.3	59.4	62.1						
14/8/2020	13:45:00	14/8/2020	13:50:00	63.4	58.6	61.5						
14/8/2020	13:50:00	14/8/2020	13:55:00	64.7	59.4	63.3						
14/8/2020	13:55:00	14/8/2020	14:00:00	62.8	59.0	61.6						
14/8/2020	14:00:00	14/8/2020	14:05:00	62.4	58.3	60.6	63.3	66.3	59.0	62.0	61.4	64.4
14/8/2020	14:05:00	14/8/2020	14:10:00	62.0	58.6	60.3						
14/8/2020	14:10:00	14/8/2020	14:15:00	64.5	58.9	62.0						
14/8/2020	14:15:00	14/8/2020	14:20:00	64.7	59.6	62.4						
14/8/2020	14:20:00	14/8/2020	14:25:00	63.1	59.3	62.2						
14/8/2020	14:25:00	14/8/2020	14:30:00	61.9	58.9	60.6						
14/8/2020	14:30:00	14/8/2020	14:35:00	62.8	58.3	60.8	62.1	65.1	58.8	61.8	60.8	63.8
14/8/2020	14:35:00	14/8/2020	14:40:00	62.1	59.1	60.9						
14/8/2020	14:40:00	14/8/2020	14:45:00	61.2	58.8	60.2						
14/8/2020	14:45:00	14/8/2020	14:50:00	62.0	58.7	60.7						
14/8/2020	14:50:00	14/8/2020	14:55:00	62.5	59.1	61.7						
14/8/2020	14:55:00	14/8/2020	15:00:00	61.6	58.9	60.3						
14/8/2020	15:00:00	14/8/2020	15:05:00	62.4	59.6	61.1	62.2	65.2	59.2	62.2	60.9	63.9
14/8/2020	15:05:00	14/8/2020	15:10:00	62.1	59.2	60.8						
14/8/2020	15:10:00	14/8/2020	15:15:00	61.8	59.1	60.5						
14/8/2020	15:15:00	14/8/2020	15:20:00	62.3	59.1	61.0						
14/8/2020	15:20:00	14/8/2020	15:25:00	62.5	59.7	61.4						
14/8/2020	15:25:00	14/8/2020	15:30:00	62.0	58.5	60.4						
14/8/2020	15:30:00	14/8/2020	15:35:00	62.3	58.9	61.0	62.4	65.4	58.1	61.1	60.5	63.5
14/8/2020	15:35:00	14/8/2020	15:40:00	63.1	58.7	61.6						
14/8/2020	15:40:00	14/8/2020	15:45:00	62.3	56.6	59.4						
14/8/2020	15:45:00	14/8/2020	15:50:00	62.4	56.4	59.4						
14/8/2020	15:50:00	14/8/2020	15:55:00	62.5	58.8	61.0						
14/8/2020	15:55:00	14/8/2020	16:00:00	61.4	58.5	60.2						
14/8/2020	16:00:00	14/8/2020	16:05:00	61.2	58.8	60.4	63.1	66.1	58.5	61.5	61.5	64.5
14/8/2020	16:05:00	14/8/2020	16:10:00	65.9	57.9	62.7						
14/8/2020	16:10:00	14/8/2020	16:15:00	62.1	58.3	60.4						
14/8/2020	16:15:00	14/8/2020	16:20:00	62.2	58.1	61.1						
14/8/2020	16:20:00	14/8/2020	16:25:00	62.7	59.1	62.6						
14/8/2020	16:25:00	14/8/2020	16:30:00	62.8	58.7	61.0						
14/8/2020	16:30:00	14/8/2020	16:35:00	65.9	58.5	62.7	63.2	66.2	58.8	61.8	61.3	64.3
14/8/2020	16:35:00	14/8/2020	16:40:00	62.0	59.0	60.7						
14/8/2020	16:40:00	14/8/2020	16:45:00	62.7	58.8	61.0						
14/8/2020	16:45:00	14/8/2020	16:50:00	61.6	58.3	60.2						
14/8/2020	16:50:00	14/8/2020	16:55:00	63.1	58.9	61.5						
14/8/2020	16:55:00	14/8/2020	17:00:00	62.4	59.0	61.0						
14/8/2020	17:00:00	14/8/2020	17:05:00	61.6	58.3	60.4	63.4	66.4	58.4	61.4	61.5	64.5
14/8/2020	17:05:00	14/8/2020	17:10:00	61.5	58.5	60.2						
14/8/2020	17:10:00	14/8/2020	17:15:00	64.6	58.9	62.5						
14/8/2020	17:15:00	14/8/2020	17:20:00	65.6	58.5	63.2						
14/8/2020	17:20:00	14/8/2020	17:25:00	62.7	58.1	60.9						
14/8/2020	17:25:00	14/8/2020	17:30:00	63.0	58.1	61.0						
14/8/2020	17:30:00	14/8/2020	17:35:00	61.4	58.1	60.2	62.0	65.0	58.0	61.0	60.4	63.4
14/8/2020	17:35:00	14/8/2020	17:40:00	61.3	57.8	59.9						
14/8/2020	17:40:00	14/8/2020	17:45:00	62.4	57.3	60.3						
14/8/2020	17:45:00	14/8/2020	17:50:00	63.3	58.3	61.4						
14/8/2020	17:50:00	14/8/2020	17:55:00	61.4	58.0	60.1						
14/8/2020	17:55:00	14/8/2020	18:00:00	61.8	58.2	60.4						
14/8/2020	18:00:00	14/8/2020	18:05:00	60.6	57.1	59.3	61.7	64.7	57.1	60.1	59.8	62.8
14/8/2020	18:05:00	14/8/2020	18:10:00	60.5	57.1	59.0						
14/8/2020	18:10:00	14/8/2020	18:15:00	60.8	57.0	59.1						
14/8/2020	18:15:00	14/8/2020	18:20:00	60.4	57.3	59.1						
14/8/2020	18:20:00	14/8/2020	18:25:00	62.4	57.0	60.0						
14/8/2020	18:25:00	14/8/2020	18:30:00	64.2	57.3	61.7						
14/8/2020	18:30:00	14/8/2020	18:35:00	61.1	57.1	59.9	61.5	64.5	56.7	59.7	60.1	63.1
14/8/2020	18:35:00	14/8/2020	18:40:00	61.7	57.0	59.4						
14/8/2020	18:40:00	14/8/2020	18:45:00	62.0	56.7	60.3						
14/8/2020	18:45:00	14/8/2020	18:50:00	62.3	56.2	61.8						
14/8/2020	18:50:00	14/8/2020	18:55:00	61.9	56.6	59.9						
14/8/2020	18:55:00	14/8/2020	19:00:00	59.7	56.3	58.3						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
15/8/2020	7:00:00	15/8/2020	7:05:00	56.3	51.1	53.9	57.1	60.1	52.2	55.2	55.1	58.1
15/8/2020	7:05:00	15/8/2020	7:10:00	57.7	52.0	55.2						
15/8/2020	7:10:00	15/8/2020	7:15:00	58.2	52.0	56.1						
15/8/2020	7:15:00	15/8/2020	7:20:00	55.7	52.4	54.7						
15/8/2020	7:20:00	15/8/2020	7:25:00	57.2	53.0	55.3						
15/8/2020	7:25:00	15/8/2020	7:30:00	56.8	52.6	55.0						
15/8/2020	7:30:00	15/8/2020	7:35:00	58.8	52.9	56.4	58.0	61.0	53.1	56.1	56.2	59.2
15/8/2020	7:35:00	15/8/2020	7:40:00	56.7	52.9	55.0						
15/8/2020	7:40:00	15/8/2020	7:45:00	57.7	52.9	55.7						
15/8/2020	7:45:00	15/8/2020	7:50:00	57.2	52.4	55.1						
15/8/2020	7:50:00	15/8/2020	7:55:00	57.7	53.1	56.9						
15/8/2020	7:55:00	15/8/2020	8:00:00	59.3	54.1	57.3						
15/8/2020	8:00:00	15/8/2020	8:05:00	60.0	54.6	58.7	59.9	62.9	55.8	58.8	58.5	61.5
15/8/2020	8:05:00	15/8/2020	8:10:00	57.3	54.1	55.8						
15/8/2020	8:10:00	15/8/2020	8:15:00	60.0	54.8	58.9						
15/8/2020	8:15:00	15/8/2020	8:20:00	61.2	56.0	59.4						
15/8/2020	8:20:00	15/8/2020	8:25:00	60.4	57.0	58.9						
15/8/2020	8:25:00	15/8/2020	8:30:00	59.6	57.2	58.5						
15/8/2020	8:30:00	15/8/2020	8:35:00	61.5	57.1	59.8	61.9	64.9	58.2	61.2	60.4	63.4
15/8/2020	8:35:00	15/8/2020	8:40:00	62.7	58.2	61.1						
15/8/2020	8:40:00	15/8/2020	8:45:00	62.2	58.5	60.4						
15/8/2020	8:45:00	15/8/2020	8:50:00	60.5	57.7	59.1						
15/8/2020	8:50:00	15/8/2020	8:55:00	61.8	58.6	60.5						
15/8/2020	8:55:00	15/8/2020	9:00:00	62.2	59.0	60.9						
15/8/2020	9:00:00	15/8/2020	9:05:00	60.8	57.9	60.0	60.9	63.9	57.8	60.8	59.6	62.6
15/8/2020	9:05:00	15/8/2020	9:10:00	61.1	57.9	59.6						
15/8/2020	9:10:00	15/8/2020	9:15:00	60.2	57.2	58.8						
15/8/2020	9:15:00	15/8/2020	9:20:00	61.6	57.9	60.0						
15/8/2020	9:20:00	15/8/2020	9:25:00	60.9	58.1	59.7						
15/8/2020	9:25:00	15/8/2020	9:30:00	60.8	57.9	59.5						
15/8/2020	9:30:00	15/8/2020	9:35:00	62.0	58.2	60.6	60.9	63.9	57.6	60.6	59.4	62.4
15/8/2020	9:35:00	15/8/2020	9:40:00	60.4	57.7	59.1						
15/8/2020	9:40:00	15/8/2020	9:45:00	59.8	57.1	58.6						
15/8/2020	9:45:00	15/8/2020	9:50:00	61.2	57.5	59.5						
15/8/2020	9:50:00	15/8/2020	9:55:00	60.6	57.4	59.1						
15/8/2020	9:55:00	15/8/2020	10:00:00	60.8	57.4	59.0						
15/8/2020	10:00:00	15/8/2020	10:05:00	62.0	58.3	60.4	62.7	65.7	58.4	61.4	61.1	64.1
15/8/2020	10:05:00	15/8/2020	10:10:00	63.3	58.3	61.9						
15/8/2020	10:10:00	15/8/2020	10:15:00	64.3	58.8	62.7						
15/8/2020	10:15:00	15/8/2020	10:20:00	62.5	58.3	60.7						
15/8/2020	10:20:00	15/8/2020	10:25:00	61.0	57.9	59.6						
15/8/2020	10:25:00	15/8/2020	10:30:00	62.1	58.5	60.5						
15/8/2020	10:30:00	15/8/2020	10:35:00	61.4	58.2	60.0	62.0	65.0	58.9	61.9	60.6	63.6
15/8/2020	10:35:00	15/8/2020	10:40:00	61.1	58.3	59.8						
15/8/2020	10:40:00	15/8/2020	10:45:00	61.6	57.6	59.9						
15/8/2020	10:45:00	15/8/2020	10:50:00	61.8	59.2	60.8						
15/8/2020	10:50:00	15/8/2020	10:55:00	63.1	59.6	61.6						
15/8/2020	10:55:00	15/8/2020	11:00:00	62.4	60.0	61.3						
15/8/2020	11:00:00	15/8/2020	11:05:00	62.4	59.5	61.1	63.3	66.3	59.5	62.5	61.8	64.8
15/8/2020	11:05:00	15/8/2020	11:10:00	63.0	60.1	61.9						
15/8/2020	11:10:00	15/8/2020	11:15:00	62.2	59.1	60.9						
15/8/2020	11:15:00	15/8/2020	11:20:00	63.6	59.3	62.1						
15/8/2020	11:20:00	15/8/2020	11:25:00	64.8	60.0	62.8						
15/8/2020	11:25:00	15/8/2020	11:30:00	63.1	59.0	61.7						
15/8/2020	11:30:00	15/8/2020	11:35:00	62.7	59.1	60.9	62.4	65.4	58.1	61.1	60.8	63.8
15/8/2020	11:35:00	15/8/2020	11:40:00	62.9	58.8	61.9						
15/8/2020	11:40:00	15/8/2020	11:45:00	61.9	58.3	60.3						
15/8/2020	11:45:00	15/8/2020	11:50:00	62.5	57.8	60.8						
15/8/2020	11:50:00	15/8/2020	11:55:00	61.6	57.4	59.9						
15/8/2020	11:55:00	15/8/2020	12:00:00	62.9	57.0	60.6						
15/8/2020	12:00:00	15/8/2020	12:05:00	62.3	56.7	60.1	61.7	64.7	56.9	59.9	59.9	62.9
15/8/2020	12:05:00	15/8/2020	12:10:00	61.8	57.1	59.8						
15/8/2020	12:10:00	15/8/2020	12:15:00	62.2	57.1	60.5						
15/8/2020	12:15:00	15/8/2020	12:20:00	61.1	56.9	59.6						
15/8/2020	12:20:00	15/8/2020	12:25:00	61.0	56.9	59.4						
15/8/2020	12:25:00	15/8/2020	12:30:00	61.6	56.9	60.1						

15/8/2020	12:30:00	15/8/2020	12:35:00	60.9	56.5	59.0	60.6	63.6	56.7	59.7	59.0	62.0
15/8/2020	12:35:00	15/8/2020	12:40:00	60.6	57.0	59.0						
15/8/2020	12:40:00	15/8/2020	12:45:00	60.4	56.4	58.8						
15/8/2020	12:45:00	15/8/2020	12:50:00	60.6	56.6	58.8						
15/8/2020	12:50:00	15/8/2020	12:55:00	61.1	57.2	59.4						
15/8/2020	12:55:00	15/8/2020	13:00:00	60.0	56.6	58.7						
15/8/2020	13:00:00	15/8/2020	13:05:00	60.8	57.4	59.6	62.4	65.4	58.5	61.5	60.8	63.8
15/8/2020	13:05:00	15/8/2020	13:10:00	62.2	58.6	60.7						
15/8/2020	13:10:00	15/8/2020	13:15:00	62.6	59.0	61.0						
15/8/2020	13:15:00	15/8/2020	13:20:00	64.3	58.5	62.1						
15/8/2020	13:20:00	15/8/2020	13:25:00	61.5	58.6	60.3						
15/8/2020	13:25:00	15/8/2020	13:30:00	62.0	58.8	60.6						
15/8/2020	13:30:00	15/8/2020	13:35:00	62.4	58.9	60.8	62.4	65.4	59.1	62.1	60.9	63.9
15/8/2020	13:35:00	15/8/2020	13:40:00	63.1	59.2	61.4						
15/8/2020	13:40:00	15/8/2020	13:45:00	63.3	59.7	61.7						
15/8/2020	13:45:00	15/8/2020	13:50:00	61.4	58.9	60.6						
15/8/2020	13:50:00	15/8/2020	13:55:00	62.0	59.2	60.7						
15/8/2020	13:55:00	15/8/2020	14:00:00	61.7	58.3	60.1						
15/8/2020	14:00:00	15/8/2020	14:05:00	60.7	58.2	59.7	62.7	65.7	59.3	62.3	61.3	64.3
15/8/2020	14:05:00	15/8/2020	14:10:00	62.6	58.9	60.7						
15/8/2020	14:10:00	15/8/2020	14:15:00	63.4	59.5	62.2						
15/8/2020	14:15:00	15/8/2020	14:20:00	63.3	60.2	62.1						
15/8/2020	14:20:00	15/8/2020	14:25:00	63.1	59.5	61.7						
15/8/2020	14:25:00	15/8/2020	14:30:00	62.6	59.3	61.1						
15/8/2020	14:30:00	15/8/2020	14:35:00	62.3	59.3	60.9	62.4	65.4	58.9	61.9	61.0	64.0
15/8/2020	14:35:00	15/8/2020	14:40:00	63.1	59.0	61.5						
15/8/2020	14:40:00	15/8/2020	14:45:00	60.9	58.4	59.9						
15/8/2020	14:45:00	15/8/2020	14:50:00	63.1	58.2	61.4						
15/8/2020	14:50:00	15/8/2020	14:55:00	62.2	59.3	61.0						
15/8/2020	14:55:00	15/8/2020	15:00:00	62.2	59.2	61.0						
15/8/2020	15:00:00	15/8/2020	15:05:00	61.7	58.6	60.7	61.4	64.4	58.6	61.6	60.2	63.2
15/8/2020	15:05:00	15/8/2020	15:10:00	60.9	58.5	59.8						
15/8/2020	15:10:00	15/8/2020	15:15:00	61.9	58.7	60.5						
15/8/2020	15:15:00	15/8/2020	15:20:00	60.8	58.5	59.8						
15/8/2020	15:20:00	15/8/2020	15:25:00	61.4	58.7	60.2						
15/8/2020	15:25:00	15/8/2020	15:30:00	61.4	58.3	60.0						
15/8/2020	15:30:00	15/8/2020	15:35:00	63.9	59.6	62.4	62.5	65.5	58.6	61.6	61.1	64.1
15/8/2020	15:35:00	15/8/2020	15:40:00	63.3	59.6	62.0						
15/8/2020	15:40:00	15/8/2020	15:45:00	63.4	58.5	61.2						
15/8/2020	15:45:00	15/8/2020	15:50:00	61.2	58.0	59.6						
15/8/2020	15:50:00	15/8/2020	15:55:00	61.0	57.6	59.6						
15/8/2020	15:55:00	15/8/2020	16:00:00	61.4	58.0	61.0						
15/8/2020	16:00:00	15/8/2020	16:05:00	60.7	58.1	59.5	61.9	64.9	58.5	61.5	60.5	63.5
15/8/2020	16:05:00	15/8/2020	16:10:00	62.2	58.9	61.3						
15/8/2020	16:10:00	15/8/2020	16:15:00	62.1	58.4	60.5						
15/8/2020	16:15:00	15/8/2020	16:20:00	61.6	58.1	60.0						
15/8/2020	16:20:00	15/8/2020	16:25:00	62.5	58.9	60.9						
15/8/2020	16:25:00	15/8/2020	16:30:00	62.1	58.8	60.8						
15/8/2020	16:30:00	15/8/2020	16:35:00	62.8	58.5	61.0	61.7	64.7	57.8	60.8	60.2	63.2
15/8/2020	16:35:00	15/8/2020	16:40:00	61.1	58.2	59.9						
15/8/2020	16:40:00	15/8/2020	16:45:00	61.2	57.5	59.6						
15/8/2020	16:45:00	15/8/2020	16:50:00	61.5	57.3	59.6						
15/8/2020	16:50:00	15/8/2020	16:55:00	61.4	57.1	59.6						
15/8/2020	16:55:00	15/8/2020	17:00:00	62.0	57.9	61.0						
15/8/2020	17:00:00	15/8/2020	17:05:00	65.1	56.6	62.8	62.1	65.1	55.3	58.3	59.5	62.5
15/8/2020	17:05:00	15/8/2020	17:10:00	63.0	55.1	60.4						
15/8/2020	17:10:00	15/8/2020	17:15:00	59.8	54.4	56.7						
15/8/2020	17:15:00	15/8/2020	17:20:00	59.7	54.7	57.0						
15/8/2020	17:20:00	15/8/2020	17:25:00	60.8	54.7	58.0						
15/8/2020	17:25:00	15/8/2020	17:30:00	61.3	55.8	58.7						
15/8/2020	17:30:00	15/8/2020	17:35:00	62.4	55.3	58.8	61.9	64.9	55.8	58.8	59.1	62.1
15/8/2020	17:35:00	15/8/2020	17:40:00	61.0	55.3	58.0						
15/8/2020	17:40:00	15/8/2020	17:45:00	63.5	56.7	61.5						
15/8/2020	17:45:00	15/8/2020	17:50:00	61.1	55.9	58.5						
15/8/2020	17:50:00	15/8/2020	17:55:00	61.3	55.6	58.4						
15/8/2020	17:55:00	15/8/2020	18:00:00	61.6	55.7	58.4						
15/8/2020	18:00:00	15/8/2020	18:05:00	60.7	55.6	58.0	61.9	64.9	55.7	58.7	59.0	62.0
15/8/2020	18:05:00	15/8/2020	18:10:00	61.5	55.6	58.8						
15/8/2020	18:10:00	15/8/2020	18:15:00	62.9	56.1	60.1						
15/8/2020	18:15:00	15/8/2020	18:20:00	61.3	55.7	58.5						
15/8/2020	18:20:00	15/8/2020	18:25:00	62.0	55.5	59.0						
15/8/2020	18:25:00	15/8/2020	18:30:00	62.6	55.8	59.1						
15/8/2020	18:30:00	15/8/2020	18:35:00	62.1	56.1	59.3	61.1	64.1	55.4	58.4	58.4	61.4
15/8/2020	18:35:00	15/8/2020	18:40:00	61.6	56.2	59.2						
15/8/2020	18:40:00	15/8/2020	18:45:00	60.8	55.3	58.3						
15/8/2020	18:45:00	15/8/2020	18:50:00	60.2	55.3	57.5						
15/8/2020	18:50:00	15/8/2020	18:55:00	61.3	54.8	58.4						
15/8/2020	18:55:00	15/8/2020	19:00:00	60.5	54.3	57.4						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
16/8/2020	7:00:00	16/8/2020	7:05:00	57.4	50.5	54.5	59.1	62.1	50.6	53.6	56.6	59.6
16/8/2020	7:05:00	16/8/2020	7:10:00	56.9	51.0	55.9						
16/8/2020	7:10:00	16/8/2020	7:15:00	59.4	51.0	56.3						
16/8/2020	7:15:00	16/8/2020	7:20:00	58.8	50.7	57.5						
16/8/2020	7:20:00	16/8/2020	7:25:00	61.8	50.0	58.0						
16/8/2020	7:25:00	16/8/2020	7:30:00	58.6	50.6	56.6						
16/8/2020	7:30:00	16/8/2020	7:35:00	56.1	51.1	54.1	58.6	61.6	50.8	53.8	56.2	59.2
16/8/2020	7:35:00	16/8/2020	7:40:00	57.0	50.5	54.1						
16/8/2020	7:40:00	16/8/2020	7:45:00	61.7	50.3	59.2						
16/8/2020	7:45:00	16/8/2020	7:50:00	60.8	51.2	57.8						
16/8/2020	7:50:00	16/8/2020	7:55:00	57.1	51.2	55.6						
16/8/2020	7:55:00	16/8/2020	8:00:00	54.5	50.3	52.8						
16/8/2020	8:00:00	16/8/2020	8:05:00	57.1	51.5	54.8	56.4	59.4	51.2	54.2	54.8	57.8
16/8/2020	8:05:00	16/8/2020	8:10:00	55.5	51.2	53.6						
16/8/2020	8:10:00	16/8/2020	8:15:00	58.2	51.3	57.6						
16/8/2020	8:15:00	16/8/2020	8:20:00	56.4	50.7	54.0						
16/8/2020	8:20:00	16/8/2020	8:25:00	55.1	50.9	53.3						
16/8/2020	8:25:00	16/8/2020	8:30:00	55.4	51.5	54.1						
16/8/2020	8:30:00	16/8/2020	8:35:00	62.4	52.0	60.4	59.2	62.2	52.4	55.4	57.1	60.1
16/8/2020	8:35:00	16/8/2020	8:40:00	61.0	52.9	58.0						
16/8/2020	8:40:00	16/8/2020	8:45:00	59.1	53.5	57.7						
16/8/2020	8:45:00	16/8/2020	8:50:00	55.9	51.5	53.8						
16/8/2020	8:50:00	16/8/2020	8:55:00	55.9	51.9	54.1						
16/8/2020	8:55:00	16/8/2020	9:00:00	56.5	52.5	54.6						
16/8/2020	9:00:00	16/8/2020	9:05:00	56.1	51.9	54.1	56.9	59.9	51.8	54.8	55.0	58.0
16/8/2020	9:05:00	16/8/2020	9:10:00	56.7	51.8	54.7						
16/8/2020	9:10:00	16/8/2020	9:15:00	55.3	51.1	53.6						
16/8/2020	9:15:00	16/8/2020	9:20:00	57.2	51.9	54.8						
16/8/2020	9:20:00	16/8/2020	9:25:00	57.5	52.2	56.1						
16/8/2020	9:25:00	16/8/2020	9:30:00	58.1	52.1	55.9						
16/8/2020	9:30:00	16/8/2020	9:35:00	57.8	52.1	55.6	59.1	62.1	52.5	55.5	56.7	59.7
16/8/2020	9:35:00	16/8/2020	9:40:00	59.4	52.6	57.2						
16/8/2020	9:40:00	16/8/2020	9:45:00	60.2	52.5	56.8						
16/8/2020	9:45:00	16/8/2020	9:50:00	57.7	52.7	56.7						
16/8/2020	9:50:00	16/8/2020	9:55:00	58.2	52.6	56.2						
16/8/2020	9:55:00	16/8/2020	10:00:00	60.6	52.5	57.4						
16/8/2020	10:00:00	16/8/2020	10:05:00	57.2	52.2	55.3	60.1	63.1	53.4	56.4	57.7	60.7
16/8/2020	10:05:00	16/8/2020	10:10:00	60.3	52.9	57.8						
16/8/2020	10:10:00	16/8/2020	10:15:00	58.3	53.7	56.7						
16/8/2020	10:15:00	16/8/2020	10:20:00	60.7	52.8	58.5						
16/8/2020	10:20:00	16/8/2020	10:25:00	60.7	53.7	58.1						
16/8/2020	10:25:00	16/8/2020	10:30:00	61.9	54.5	58.9						
16/8/2020	10:30:00	16/8/2020	10:35:00	60.1	53.8	57.3	60.5	63.5	53.3	56.3	57.5	60.5
16/8/2020	10:35:00	16/8/2020	10:40:00	57.1	52.5	55.3						
16/8/2020	10:40:00	16/8/2020	10:45:00	64.8	53.9	61.1						
16/8/2020	10:45:00	16/8/2020	10:50:00	59.2	53.3	56.4						
16/8/2020	10:50:00	16/8/2020	10:55:00	58.4	53.1	56.2						
16/8/2020	10:55:00	16/8/2020	11:00:00	57.9	53.2	55.9						
16/8/2020	11:00:00	16/8/2020	11:05:00	60.0	53.0	57.3	59.6	62.6	53.1	56.1	57.1	60.1
16/8/2020	11:05:00	16/8/2020	11:10:00	61.8	53.6	58.6						
16/8/2020	11:10:00	16/8/2020	11:15:00	59.7	53.3	57.0						
16/8/2020	11:15:00	16/8/2020	11:20:00	58.1	52.7	57.0						
16/8/2020	11:20:00	16/8/2020	11:25:00	58.9	52.8	56.4						
16/8/2020	11:25:00	16/8/2020	11:30:00	57.4	53.4	55.9						
16/8/2020	11:30:00	16/8/2020	11:35:00	59.4	53.6	57.3	60.9	63.9	53.5	56.5	58.6	61.6
16/8/2020	11:35:00	16/8/2020	11:40:00	59.0	54.0	57.0						
16/8/2020	11:40:00	16/8/2020	11:45:00	61.3	53.3	59.8						
16/8/2020	11:45:00	16/8/2020	11:50:00	60.3	52.8	56.8						
16/8/2020	11:50:00	16/8/2020	11:55:00	61.7	53.8	58.9						
16/8/2020	11:55:00	16/8/2020	12:00:00	62.7	53.5	60.6						
16/8/2020	12:00:00	16/8/2020	12:05:00	59.5	53.0	56.8	60.2	63.2	53.7	56.7	57.9	60.9
16/8/2020	12:05:00	16/8/2020	12:10:00	60.7	53.4	59.6						
16/8/2020	12:10:00	16/8/2020	12:15:00	59.6	53.2	56.3						
16/8/2020	12:15:00	16/8/2020	12:20:00	59.1	53.6	56.1						
16/8/2020	12:20:00	16/8/2020	12:25:00	62.6	54.8	60.1						
16/8/2020	12:25:00	16/8/2020	12:30:00	58.3	54.0	56.6						

16/8/2020	12:30:00	16/8/2020	12:35:00	59.6	54.6	57.7	60.4	63.4	53.7	56.7	58.2	61.2
16/8/2020	12:35:00	16/8/2020	12:40:00	63.8	53.6	61.0						
16/8/2020	12:40:00	16/8/2020	12:45:00	59.6	54.4	58.6						
16/8/2020	12:45:00	16/8/2020	12:50:00	60.2	52.7	57.4						
16/8/2020	12:50:00	16/8/2020	12:55:00	57.9	52.7	55.7						
16/8/2020	12:55:00	16/8/2020	13:00:00	58.7	53.6	56.6						
16/8/2020	13:00:00	16/8/2020	13:05:00	58.8	54.1	56.9	59.2	62.2	53.8	56.8	57.3	60.3
16/8/2020	13:05:00	16/8/2020	13:10:00	60.9	53.9	57.7						
16/8/2020	13:10:00	16/8/2020	13:15:00	59.3	53.7	58.0						
16/8/2020	13:15:00	16/8/2020	13:20:00	58.3	53.6	56.9						
16/8/2020	13:20:00	16/8/2020	13:25:00	57.7	53.4	55.9						
16/8/2020	13:25:00	16/8/2020	13:30:00	59.2	54.0	58.2						
16/8/2020	13:30:00	16/8/2020	13:35:00	61.4	53.8	58.7	59.2	62.2	53.6	56.6	57.4	60.4
16/8/2020	13:35:00	16/8/2020	13:40:00	58.0	53.6	56.1						
16/8/2020	13:40:00	16/8/2020	13:45:00	58.8	53.1	58.1						
16/8/2020	13:45:00	16/8/2020	13:50:00	58.5	53.5	56.7						
16/8/2020	13:50:00	16/8/2020	13:55:00	59.6	54.1	57.8						
16/8/2020	13:55:00	16/8/2020	14:00:00	57.9	53.5	56.3						
16/8/2020	14:00:00	16/8/2020	14:05:00	57.4	53.4	56.2	60.0	63.0	53.7	56.7	57.6	60.6
16/8/2020	14:05:00	16/8/2020	14:10:00	59.6	54.1	57.8						
16/8/2020	14:10:00	16/8/2020	14:15:00	58.0	53.7	56.2						
16/8/2020	14:15:00	16/8/2020	14:20:00	63.7	54.1	60.2						
16/8/2020	14:20:00	16/8/2020	14:25:00	58.9	53.4	57.3						
16/8/2020	14:25:00	16/8/2020	14:30:00	59.3	53.6	56.7						
16/8/2020	14:30:00	16/8/2020	14:35:00	56.6	52.8	55.0	58.6	61.6	53.6	56.6	57.0	60.0
16/8/2020	14:35:00	16/8/2020	14:40:00	57.2	53.7	55.7						
16/8/2020	14:40:00	16/8/2020	14:45:00	57.4	53.8	55.9						
16/8/2020	14:45:00	16/8/2020	14:50:00	60.1	53.9	57.4						
16/8/2020	14:50:00	16/8/2020	14:55:00	61.0	53.7	60.0						
16/8/2020	14:55:00	16/8/2020	15:00:00	57.4	53.4	55.6						
16/8/2020	15:00:00	16/8/2020	15:05:00	57.1	52.8	55.4	57.7	60.7	53.5	56.5	56.1	59.1
16/8/2020	15:05:00	16/8/2020	15:10:00	56.8	53.0	55.8						
16/8/2020	15:10:00	16/8/2020	15:15:00	57.5	53.8	56.1						
16/8/2020	15:15:00	16/8/2020	15:20:00	58.0	53.6	56.5						
16/8/2020	15:20:00	16/8/2020	15:25:00	58.6	54.1	56.9						
16/8/2020	15:25:00	16/8/2020	15:30:00	57.9	53.3	55.8						
16/8/2020	15:30:00	16/8/2020	15:35:00	59.3	53.5	59.1	59.4	62.4	53.8	56.8	57.8	60.8
16/8/2020	15:35:00	16/8/2020	15:40:00	59.1	53.6	56.9						
16/8/2020	15:40:00	16/8/2020	15:45:00	59.0	53.5	58.4						
16/8/2020	15:45:00	16/8/2020	15:50:00	59.9	54.0	57.5						
16/8/2020	15:50:00	16/8/2020	15:55:00	59.5	54.2	57.2						
16/8/2020	15:55:00	16/8/2020	16:00:00	59.7	53.7	57.2						
16/8/2020	16:00:00	16/8/2020	16:05:00	58.4	53.7	56.9	60.9	63.9	54.0	57.0	58.3	61.3
16/8/2020	16:05:00	16/8/2020	16:10:00	58.4	53.6	56.7						
16/8/2020	16:10:00	16/8/2020	16:15:00	57.6	53.5	56.7						
16/8/2020	16:15:00	16/8/2020	16:20:00	65.3	55.1	61.8						
16/8/2020	16:20:00	16/8/2020	16:25:00	59.5	53.8	56.8						
16/8/2020	16:25:00	16/8/2020	16:30:00	60.5	54.0	58.3						
16/8/2020	16:30:00	16/8/2020	16:35:00	57.6	53.6	55.9	58.2	61.2	53.7	56.7	56.4	59.4
16/8/2020	16:35:00	16/8/2020	16:40:00	57.4	54.3	56.1						
16/8/2020	16:40:00	16/8/2020	16:45:00	59.1	53.8	57.1						
16/8/2020	16:45:00	16/8/2020	16:50:00	59.6	53.7	57.5						
16/8/2020	16:50:00	16/8/2020	16:55:00	58.6	53.8	56.8						
16/8/2020	16:55:00	16/8/2020	17:00:00	56.1	52.7	54.6						
16/8/2020	17:00:00	16/8/2020	17:05:00	59.2	53.6	56.7	59.2	62.2	53.9	56.9	56.9	59.9
16/8/2020	17:05:00	16/8/2020	17:10:00	58.5	53.7	56.3						
16/8/2020	17:10:00	16/8/2020	17:15:00	59.8	54.9	58.0						
16/8/2020	17:15:00	16/8/2020	17:20:00	60.2	53.8	57.8						
16/8/2020	17:20:00	16/8/2020	17:25:00	59.5	53.9	56.9						
16/8/2020	17:25:00	16/8/2020	17:30:00	57.2	53.1	55.5						
16/8/2020	17:30:00	16/8/2020	17:35:00	59.6	53.3	57.5	59.9	62.9	53.8	56.8	57.8	60.8
16/8/2020	17:35:00	16/8/2020	17:40:00	62.3	54.3	59.3						
16/8/2020	17:40:00	16/8/2020	17:45:00	60.2	54.2	58.8						
16/8/2020	17:45:00	16/8/2020	17:50:00	59.2	53.7	57.3						
16/8/2020	17:50:00	16/8/2020	17:55:00	58.7	53.9	56.6						
16/8/2020	17:55:00	16/8/2020	18:00:00	58.0	53.6	56.2						
16/8/2020	18:00:00	16/8/2020	18:05:00	58.5	53.7	56.6	59.4	62.4	53.7	56.7	57.1	60.1
16/8/2020	18:05:00	16/8/2020	18:10:00	58.7	54.0	56.8						
16/8/2020	18:10:00	16/8/2020	18:15:00	58.5	53.6	56.2						
16/8/2020	18:15:00	16/8/2020	18:20:00	57.7	53.6	55.8						
16/8/2020	18:20:00	16/8/2020	18:25:00	61.4	53.7	58.6						
16/8/2020	18:25:00	16/8/2020	18:30:00	60.3	53.5	58.0						
16/8/2020	18:30:00	16/8/2020	18:35:00	58.3	53.4	56.5	58.8	61.8	53.7	56.7	56.8	59.8
16/8/2020	18:35:00	16/8/2020	18:40:00	57.3	53.5	55.8						
16/8/2020	18:40:00	16/8/2020	18:45:00	59.1	53.7	56.6						
16/8/2020	18:45:00	16/8/2020	18:50:00	59.1	54.0	57.0						
16/8/2020	18:50:00	16/8/2020	18:55:00	58.0	53.7	56.2						
16/8/2020	18:55:00	16/8/2020	19:00:00	60.4	53.6	58.3						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
17/8/2020	7:00:00	17/8/2020	7:05:00	58.2	52.6	56.3	58.2	61.2	53.2	56.2	56.3	59.3
17/8/2020	7:05:00	17/8/2020	7:10:00	58.1	53.3	56.5						
17/8/2020	7:10:00	17/8/2020	7:15:00	57.8	53.0	55.6						
17/8/2020	7:15:00	17/8/2020	7:20:00	58.6	53.4	56.9						
17/8/2020	7:20:00	17/8/2020	7:25:00	58.0	53.2	55.9						
17/8/2020	7:25:00	17/8/2020	7:30:00	58.3	53.5	56.3						
17/8/2020	7:30:00	17/8/2020	7:35:00	58.3	53.6	56.4	61.8	64.8	54.3	57.3	59.2	62.2
17/8/2020	7:35:00	17/8/2020	7:40:00	59.6	54.0	57.6						
17/8/2020	7:40:00	17/8/2020	7:45:00	65.8	54.6	62.2						
17/8/2020	7:45:00	17/8/2020	7:50:00	60.9	54.1	58.3						
17/8/2020	7:50:00	17/8/2020	7:55:00	62.2	54.7	60.6						
17/8/2020	7:55:00	17/8/2020	8:00:00	59.1	54.5	57.1						
17/8/2020	8:00:00	17/8/2020	8:05:00	62.9	54.6	59.5	62.1	65.1	56.6	59.6	60.0	63.0
17/8/2020	8:05:00	17/8/2020	8:10:00	59.6	55.6	58.5						
17/8/2020	8:10:00	17/8/2020	8:15:00	59.9	55.8	58.1						
17/8/2020	8:15:00	17/8/2020	8:20:00	61.0	56.7	59.2						
17/8/2020	8:20:00	17/8/2020	8:25:00	64.4	58.2	62.0						
17/8/2020	8:25:00	17/8/2020	8:30:00	62.7	57.7	61.4						
17/8/2020	8:30:00	17/8/2020	8:35:00	59.8	56.7	58.4	61.6	64.6	57.5	60.5	59.8	62.8
17/8/2020	8:35:00	17/8/2020	8:40:00	61.8	57.2	60.0						
17/8/2020	8:40:00	17/8/2020	8:45:00	60.6	57.8	59.3						
17/8/2020	8:45:00	17/8/2020	8:50:00	60.6	57.4	59.2						
17/8/2020	8:50:00	17/8/2020	8:55:00	63.8	57.6	61.0						
17/8/2020	8:55:00	17/8/2020	9:00:00	62.0	57.9	60.4						
17/8/2020	9:00:00	17/8/2020	9:05:00	61.2	58.1	59.7	62.7	65.7	58.7	61.7	60.9	63.9
17/8/2020	9:05:00	17/8/2020	9:10:00	61.9	58.2	60.3						
17/8/2020	9:10:00	17/8/2020	9:15:00	62.0	58.0	60.1						
17/8/2020	9:15:00	17/8/2020	9:20:00	62.4	58.9	60.7						
17/8/2020	9:20:00	17/8/2020	9:25:00	62.3	58.4	60.6						
17/8/2020	9:25:00	17/8/2020	9:30:00	65.3	60.2	63.1						
17/8/2020	9:30:00	17/8/2020	9:35:00	61.9	58.8	60.4	62.7	65.7	58.6	61.6	61.0	64.0
17/8/2020	9:35:00	17/8/2020	9:40:00	63.9	58.7	62.1						
17/8/2020	9:40:00	17/8/2020	9:45:00	61.6	58.0	60.2						
17/8/2020	9:45:00	17/8/2020	9:50:00	62.7	58.9	61.1						
17/8/2020	9:50:00	17/8/2020	9:55:00	63.8	58.7	61.7						
17/8/2020	9:55:00	17/8/2020	10:00:00	61.4	58.3	59.9						
17/8/2020	10:00:00	17/8/2020	10:05:00	61.6	56.9	59.5	61.8	64.8	57.8	60.8	60.0	63.0
17/8/2020	10:05:00	17/8/2020	10:10:00	62.4	58.1	60.5						
17/8/2020	10:10:00	17/8/2020	10:15:00	61.1	57.5	59.4						
17/8/2020	10:15:00	17/8/2020	10:20:00	61.9	57.9	60.1						
17/8/2020	10:20:00	17/8/2020	10:25:00	61.0	57.7	59.5						
17/8/2020	10:25:00	17/8/2020	10:30:00	62.4	58.4	60.7						
17/8/2020	10:30:00	17/8/2020	10:35:00	64.0	59.2	61.9	64.0	67.0	58.6	61.6	62.1	65.1
17/8/2020	10:35:00	17/8/2020	10:40:00	64.2	58.6	62.6						
17/8/2020	10:40:00	17/8/2020	10:45:00	62.1	58.1	60.8						
17/8/2020	10:45:00	17/8/2020	10:50:00	65.4	58.2	62.6						
17/8/2020	10:50:00	17/8/2020	10:55:00	63.1	59.1	61.5						
17/8/2020	10:55:00	17/8/2020	11:00:00	64.7	58.4	62.7						
17/8/2020	11:00:00	17/8/2020	11:05:00	62.6	58.0	61.0	61.7	64.7	58.1	61.1	60.3	63.3
17/8/2020	11:05:00	17/8/2020	11:10:00	62.2	57.8	60.7						
17/8/2020	11:10:00	17/8/2020	11:15:00	60.5	57.6	59.1						
17/8/2020	11:15:00	17/8/2020	11:20:00	61.6	58.1	60.1						
17/8/2020	11:20:00	17/8/2020	11:25:00	61.3	58.6	60.1						
17/8/2020	11:25:00	17/8/2020	11:30:00	61.8	58.4	60.3						
17/8/2020	11:30:00	17/8/2020	11:35:00	62.5	58.5	60.9	62.4	65.4	57.6	60.6	60.5	63.5
17/8/2020	11:35:00	17/8/2020	11:40:00	63.3	58.7	61.6						
17/8/2020	11:40:00	17/8/2020	11:45:00	60.6	56.8	58.8						
17/8/2020	11:45:00	17/8/2020	11:50:00	59.6	56.7	58.3						
17/8/2020	11:50:00	17/8/2020	11:55:00	65.0	57.1	62.2						
17/8/2020	11:55:00	17/8/2020	12:00:00	60.8	57.3	59.7						
17/8/2020	12:00:00	17/8/2020	12:05:00	61.9	57.2	60.4	60.9	63.9	56.5	59.5	59.2	62.2
17/8/2020	12:05:00	17/8/2020	12:10:00	60.2	56.6	58.7						
17/8/2020	12:10:00	17/8/2020	12:15:00	60.2	56.6	58.7						
17/8/2020	12:15:00	17/8/2020	12:20:00	60.4	56.1	59.3						
17/8/2020	12:20:00	17/8/2020	12:25:00	59.5	55.9	58.0						
17/8/2020	12:25:00	17/8/2020	12:30:00	62.4	56.3	59.8						

17/8/2020	12:30:00	17/8/2020	12:35:00	59.6	55.9	58.1	60.3	63.3	56.2	59.2	58.5	61.5
17/8/2020	12:35:00	17/8/2020	12:40:00	60.9	55.7	58.8						
17/8/2020	12:40:00	17/8/2020	12:45:00	60.4	55.9	58.3						
17/8/2020	12:45:00	17/8/2020	12:50:00	60.4	56.6	58.6						
17/8/2020	12:50:00	17/8/2020	12:55:00	59.7	56.2	58.2						
17/8/2020	12:55:00	17/8/2020	13:00:00	60.7	56.7	59.0						
17/8/2020	13:00:00	17/8/2020	13:05:00	62.1	59.3	60.1	63.0	66.0	59.1	62.1	61.1	64.1
17/8/2020	13:05:00	17/8/2020	13:10:00	60.4	56.5	59.4						
17/8/2020	13:10:00	17/8/2020	13:15:00	60.9	56.5	59.6						
17/8/2020	13:15:00	17/8/2020	13:20:00	62.6	59.2	60.3						
17/8/2020	13:20:00	17/8/2020	13:25:00	62.5	59.5	60.4						
17/8/2020	13:25:00	17/8/2020	13:30:00	66.5	61.6	64.5						
17/8/2020	13:30:00	17/8/2020	13:35:00	62.7	60.0	61.4	62.4	65.4	59.1	62.1	60.9	63.9
17/8/2020	13:35:00	17/8/2020	13:40:00	63.1	59.6	61.5						
17/8/2020	13:40:00	17/8/2020	13:45:00	62.1	59.5	60.9						
17/8/2020	13:45:00	17/8/2020	13:50:00	62.5	58.8	60.9						
17/8/2020	13:50:00	17/8/2020	13:55:00	61.2	57.9	59.8						
17/8/2020	13:55:00	17/8/2020	14:00:00	62.3	58.4	60.4						
17/8/2020	14:00:00	17/8/2020	14:05:00	62.8	58.0	60.8	61.3	64.3	54.8	57.8	58.5	61.5
17/8/2020	14:05:00	17/8/2020	14:10:00	60.9	58.3	60.0						
17/8/2020	14:10:00	17/8/2020	14:15:00	64.0	48.0	58.8						
17/8/2020	14:15:00	17/8/2020	14:20:00	59.6	52.4	56.6						
17/8/2020	14:20:00	17/8/2020	14:25:00	58.3	50.1	55.9						
17/8/2020	14:25:00	17/8/2020	14:30:00	59.4	52.5	56.6						
17/8/2020	14:30:00	17/8/2020	14:35:00	70.6	58.7	66.3	64.1	67.1	54.4	57.4	60.4	63.4
17/8/2020	14:35:00	17/8/2020	14:40:00	63.3	56.1	60.7						
17/8/2020	14:40:00	17/8/2020	14:45:00	59.3	52.2	56.2						
17/8/2020	14:45:00	17/8/2020	14:50:00	55.4	51.2	53.8						
17/8/2020	14:50:00	17/8/2020	14:55:00	56.6	50.6	54.4						
17/8/2020	14:55:00	17/8/2020	15:00:00	55.1	49.5	53.2						
17/8/2020	15:00:00	17/8/2020	15:05:00	55.7	49.6	53.6	55.4	58.4	49.3	52.3	53.1	56.1
17/8/2020	15:05:00	17/8/2020	15:10:00	56.2	49.5	53.5						
17/8/2020	15:10:00	17/8/2020	15:15:00	53.9	48.9	51.9						
17/8/2020	15:15:00	17/8/2020	15:20:00	55.1	49.3	52.7						
17/8/2020	15:20:00	17/8/2020	15:25:00	55.3	49.5	53.0						
17/8/2020	15:25:00	17/8/2020	15:30:00	56.0	49.1	53.7						
17/8/2020	15:30:00	17/8/2020	15:35:00	55.4	49.2	53.1	63.2	66.2	53.6	56.6	60.3	63.3
17/8/2020	15:35:00	17/8/2020	15:40:00	68.6	55.1	65.2						
17/8/2020	15:40:00	17/8/2020	15:45:00	64.9	56.1	62.1						
17/8/2020	15:45:00	17/8/2020	15:50:00	58.5	54.0	56.6						
17/8/2020	15:50:00	17/8/2020	15:55:00	57.8	52.6	55.8						
17/8/2020	15:55:00	17/8/2020	16:00:00	57.7	51.0	56.0						
17/8/2020	16:00:00	17/8/2020	16:05:00	60.4	50.7	56.9	58.3	61.3	50.7	53.7	55.3	58.3
17/8/2020	16:05:00	17/8/2020	16:10:00	57.1	50.4	54.4						
17/8/2020	16:10:00	17/8/2020	16:15:00	58.6	50.6	55.5						
17/8/2020	16:15:00	17/8/2020	16:20:00	58.5	51.1	55.7						
17/8/2020	16:20:00	17/8/2020	16:25:00	56.7	50.6	54.2						
17/8/2020	16:25:00	17/8/2020	16:30:00	57.1	50.8	54.3						
17/8/2020	16:30:00	17/8/2020	16:35:00	57.8	51.6	55.2	61.7	64.7	55.8	58.8	59.4	62.4
17/8/2020	16:35:00	17/8/2020	16:40:00	56.0	51.2	54.0						
17/8/2020	16:40:00	17/8/2020	16:45:00	56.7	51.5	54.4						
17/8/2020	16:45:00	17/8/2020	16:50:00	61.6	55.5	59.3						
17/8/2020	16:50:00	17/8/2020	16:55:00	65.2	59.4	62.9						
17/8/2020	16:55:00	17/8/2020	17:00:00	64.3	58.1	62.0						
17/8/2020	17:00:00	17/8/2020	17:05:00	63.7	54.1	60.0	61.0	64.0	55.0	58.0	58.6	61.6
17/8/2020	17:05:00	17/8/2020	17:10:00	58.5	53.6	56.5						
17/8/2020	17:10:00	14/8/2020	17:15:00	59.8	55.4	57.7						
17/8/2020	17:15:00	14/8/2020	17:20:00	60.9	55.9	58.5						
17/8/2020	17:20:00	14/8/2020	17:25:00	61.6	55.6	60.2						
17/8/2020	17:25:00	14/8/2020	17:30:00	59.5	55.0	57.5						
17/8/2020	17:30:00	14/8/2020	17:35:00	63.0	55.0	62.7	60.9	63.9	55.0	58.0	59.3	62.3
17/8/2020	17:35:00	14/8/2020	17:40:00	59.5	54.8	57.7						
17/8/2020	17:40:00	14/8/2020	17:45:00	58.6	54.1	56.6						
17/8/2020	17:45:00	14/8/2020	17:50:00	61.0	54.9	58.1						
17/8/2020	17:50:00	14/8/2020	17:55:00	59.7	54.7	58.2						
17/8/2020	17:55:00	14/8/2020	18:00:00	62.2	56.0	59.3						
17/8/2020	18:00:00	14/8/2020	18:05:00	59.7	55.1	57.9	59.5	62.5	54.5	57.5	57.6	60.6
17/8/2020	18:05:00	14/8/2020	18:10:00	59.9	54.6	58.1						
17/8/2020	18:10:00	14/8/2020	18:15:00	59.2	53.8	57.1						
17/8/2020	18:15:00	14/8/2020	18:20:00	59.8	54.5	58.0						
17/8/2020	18:20:00	14/8/2020	18:25:00	59.4	54.7	57.9						
17/8/2020	18:25:00	14/8/2020	18:30:00	58.6	54.1	56.6						
17/8/2020	18:30:00	14/8/2020	18:35:00	60.2	54.3	57.8	59.9	62.9	53.7	56.7	57.9	60.9
17/8/2020	18:35:00	14/8/2020	18:40:00	61.5	53.9	59.9						
17/8/2020	18:40:00	14/8/2020	18:45:00	57.6	53.8	55.9						
17/8/2020	18:45:00	14/8/2020	18:50:00	58.3	53.4	56.1						
17/8/2020	18:50:00	14/8/2020	18:55:00	61.8	53.7	59.6						
17/8/2020	18:55:00	14/8/2020	19:00:00	57.7	53.0	56.0						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
18/8/2020	7:00:00	18/8/2020	7:05:00	56.5	50.6	54.0	55.9	58.9	50.4	53.4	54.0	57.0
18/8/2020	7:05:00	18/8/2020	7:10:00	55.1	50.2	53.0						
18/8/2020	7:10:00	18/8/2020	7:15:00	54.9	49.9	54.4						
18/8/2020	7:15:00	18/8/2020	7:20:00	54.0	50.1	52.9						
18/8/2020	7:20:00	18/8/2020	7:25:00	57.8	50.6	55.1						
18/8/2020	7:25:00	18/8/2020	7:30:00	56.2	50.8	54.0						
18/8/2020	7:30:00	18/8/2020	7:35:00	55.8	51.0	53.5	61.1	64.1	56.7	59.7	59.2	62.2
18/8/2020	7:35:00	18/8/2020	7:40:00	61.8	57.9	60.3						
18/8/2020	7:40:00	18/8/2020	7:45:00	62.3	57.7	60.4						
18/8/2020	7:45:00	18/8/2020	7:50:00	61.5	56.6	59.6						
18/8/2020	7:50:00	18/8/2020	7:55:00	60.4	56.6	58.4						
18/8/2020	7:55:00	18/8/2020	8:00:00	62.3	57.4	60.1						
18/8/2020	8:00:00	18/8/2020	8:05:00	60.2	56.6	58.7	60.5	63.5	56.4	59.4	58.8	61.8
18/8/2020	8:05:00	18/8/2020	8:10:00	61.1	56.4	59.3						
18/8/2020	8:10:00	18/8/2020	8:15:00	60.7	56.6	59.0						
18/8/2020	8:15:00	18/8/2020	8:20:00	60.3	56.2	58.5						
18/8/2020	8:20:00	18/8/2020	8:25:00	60.8	56.5	58.8						
18/8/2020	8:25:00	18/8/2020	8:30:00	59.8	55.8	58.2						
18/8/2020	8:30:00	18/8/2020	8:35:00	60.3	56.1	59.1	60.6	63.6	55.7	58.7	59.1	62.1
18/8/2020	8:35:00	18/8/2020	8:40:00	60.0	55.5	58.3						
18/8/2020	8:40:00	18/8/2020	8:45:00	60.4	55.5	58.8						
18/8/2020	8:45:00	18/8/2020	8:50:00	60.7	55.1	59.7						
18/8/2020	8:50:00	18/8/2020	8:55:00	60.8	56.2	59.1						
18/8/2020	8:55:00	18/8/2020	9:00:00	61.5	55.7	59.4						
18/8/2020	9:00:00	18/8/2020	9:05:00	61.5	55.4	58.8	60.2	63.2	55.3	58.3	58.5	61.5
18/8/2020	9:05:00	18/8/2020	9:10:00	59.5	55.5	57.9						
18/8/2020	9:10:00	18/8/2020	9:15:00	60.9	55.6	60.5						
18/8/2020	9:15:00	18/8/2020	9:20:00	58.8	55.3	57.3						
18/8/2020	9:20:00	18/8/2020	9:25:00	59.5	54.4	57.4						
18/8/2020	9:25:00	18/8/2020	9:30:00	60.3	55.3	58.0						
18/8/2020	9:30:00	18/8/2020	9:35:00	59.5	55.1	57.5	59.4	62.4	54.6	57.6	57.6	60.6
18/8/2020	9:35:00	18/8/2020	9:40:00	58.8	54.5	57.0						
18/8/2020	9:40:00	18/8/2020	9:45:00	58.9	53.7	56.5						
18/8/2020	9:45:00	18/8/2020	9:50:00	58.9	54.8	57.3						
18/8/2020	9:50:00	18/8/2020	9:55:00	60.3	55.0	58.4						
18/8/2020	9:55:00	18/8/2020	10:00:00	59.7	54.5	58.4						
18/8/2020	10:00:00	18/8/2020	10:05:00	58.6	54.1	57.1	60.8	63.8	53.9	56.9	58.6	61.6
18/8/2020	10:05:00	18/8/2020	10:10:00	61.2	54.7	58.2						
18/8/2020	10:10:00	18/8/2020	10:15:00	61.5	54.0	58.3						
18/8/2020	10:15:00	18/8/2020	10:20:00	59.4	53.3	57.0						
18/8/2020	10:20:00	18/8/2020	10:25:00	61.8	53.4	60.7						
18/8/2020	10:25:00	18/8/2020	10:30:00	61.6	53.8	58.9						
18/8/2020	10:30:00	18/8/2020	10:35:00	59.6	53.6	57.0	59.2	62.2	53.5	56.5	57.3	60.3
18/8/2020	10:35:00	18/8/2020	10:40:00	58.9	53.0	56.6						
18/8/2020	10:40:00	18/8/2020	10:45:00	59.3	54.1	57.3						
18/8/2020	10:45:00	18/8/2020	10:50:00	58.8	53.9	56.7						
18/8/2020	10:50:00	18/8/2020	10:55:00	59.6	53.2	58.5						
18/8/2020	10:55:00	18/8/2020	11:00:00	58.9	53.3	57.4						
18/8/2020	11:00:00	18/8/2020	11:05:00	63.9	53.2	59.9	61.3	64.3	53.4	56.4	58.0	61.0
18/8/2020	11:05:00	18/8/2020	11:10:00	63.9	53.3	59.4						
18/8/2020	11:10:00	18/8/2020	11:15:00	59.9	54.4	57.4						
18/8/2020	11:15:00	18/8/2020	11:20:00	58.7	52.9	56.3						
18/8/2020	11:20:00	18/8/2020	11:25:00	59.4	53.4	57.6						
18/8/2020	11:25:00	18/8/2020	11:30:00	57.2	52.7	55.4						
18/8/2020	11:30:00	18/8/2020	11:35:00	63.5	52.7	60.2	60.1	63.1	52.7	55.7	56.7	59.7
18/8/2020	11:35:00	18/8/2020	11:40:00	57.8	52.4	55.4						
18/8/2020	11:40:00	18/8/2020	11:45:00	58.7	52.9	56.2						
18/8/2020	11:45:00	18/8/2020	11:50:00	60.2	52.2	54.3						
18/8/2020	11:50:00	18/8/2020	11:55:00	59.7	53.0	55.4						
18/8/2020	11:55:00	18/8/2020	12:00:00	58.1	53.1	55.9						
18/8/2020	12:00:00	18/8/2020	12:05:00	64.3	52.8	60.6	60.8	63.8	52.0	55.0	57.3	60.3
18/8/2020	12:05:00	18/8/2020	12:10:00	57.5	51.5	55.2						
18/8/2020	12:10:00	18/8/2020	12:15:00	58.0	51.1	55.7						
18/8/2020	12:15:00	18/8/2020	12:20:00	60.3	52.4	54.2						
18/8/2020	12:20:00	18/8/2020	12:25:00	62.6	52.4	58.8						
18/8/2020	12:25:00	18/8/2020	12:30:00	56.6	51.8	55.1						

18/8/2020	12:30:00	18/8/2020	12:35:00	65.3	52.4	61.8	60.3	63.3	51.8	54.8	57.7	60.7
18/8/2020	12:35:00	18/8/2020	12:40:00	58.6	51.5	58.5						
18/8/2020	12:40:00	18/8/2020	12:45:00	57.4	51.8	54.9						
18/8/2020	12:45:00	18/8/2020	12:50:00	57.7	51.9	55.1						
18/8/2020	12:50:00	18/8/2020	12:55:00	58.1	51.8	55.5						
18/8/2020	12:55:00	18/8/2020	13:00:00	56.7	51.4	54.6						
18/8/2020	13:00:00	18/8/2020	13:05:00	60.6	51.7	59.1	58.5	61.5	51.1	54.1	56.3	59.3
18/8/2020	13:05:00	18/8/2020	13:10:00	56.0	50.8	54.1						
18/8/2020	13:10:00	18/8/2020	13:15:00	58.2	51.0	55.7						
18/8/2020	13:15:00	18/8/2020	13:20:00	56.8	51.3	54.7						
18/8/2020	13:20:00	18/8/2020	13:25:00	60.7	50.9	57.4						
18/8/2020	13:25:00	18/8/2020	13:30:00	55.8	50.9	54.3						
18/8/2020	13:30:00	18/8/2020	13:35:00	57.3	51.1	55.5	58.7	61.7	51.2	54.2	56.6	59.6
18/8/2020	13:35:00	18/8/2020	13:40:00	60.0	50.8	59.7						
18/8/2020	13:40:00	18/8/2020	13:45:00	58.9	52.5	56.0						
18/8/2020	13:45:00	18/8/2020	13:50:00	55.7	51.0	53.8						
18/8/2020	13:50:00	18/8/2020	13:55:00	60.7	51.2	57.1						
18/8/2020	13:55:00	18/8/2020	14:00:00	57.6	50.6	55.2						
18/8/2020	14:00:00	18/8/2020	14:05:00	56.4	51.9	55.3	59.6	62.6	51.1	54.1	57.7	60.7
18/8/2020	14:05:00	18/8/2020	14:10:00	56.9	51.0	54.5						
18/8/2020	14:10:00	18/8/2020	14:15:00	63.3	51.1	62.4						
18/8/2020	14:15:00	18/8/2020	14:20:00	57.0	50.7	54.7						
18/8/2020	14:20:00	18/8/2020	14:25:00	57.0	50.9	54.4						
18/8/2020	14:25:00	18/8/2020	14:30:00	61.6	51.1	57.9						
18/8/2020	14:30:00	18/8/2020	14:35:00	57.6	51.1	55.2	57.9	60.9	51.3	54.3	55.8	58.8
18/8/2020	14:35:00	18/8/2020	14:40:00	56.5	50.3	54.5						
18/8/2020	14:40:00	18/8/2020	14:45:00	58.9	54.3	56.6						
18/8/2020	14:45:00	18/8/2020	14:50:00	54.0	49.9	52.1						
18/8/2020	14:50:00	18/8/2020	14:55:00	57.5	50.2	55.2						
18/8/2020	14:55:00	18/8/2020	15:00:00	60.3	50.1	58.6						
18/8/2020	15:00:00	18/8/2020	15:05:00	57.0	49.1	54.6	57.7	60.7	49.9	52.9	55.5	58.5
18/8/2020	15:05:00	18/8/2020	15:10:00	60.1	50.4	58.7						
18/8/2020	15:10:00	18/8/2020	15:15:00	56.4	50.3	54.0						
18/8/2020	15:15:00	18/8/2020	15:20:00	56.1	49.7	53.8						
18/8/2020	15:20:00	18/8/2020	15:25:00	59.4	49.7	55.9						
18/8/2020	15:25:00	18/8/2020	15:30:00	55.2	49.9	53.3						
18/8/2020	15:30:00	18/8/2020	15:35:00	55.3	49.9	54.0	56.9	59.9	50.4	53.4	54.4	57.4
18/8/2020	15:35:00	18/8/2020	15:40:00	56.8	49.8	53.1						
18/8/2020	15:40:00	18/8/2020	15:45:00	55.0	49.9	52.9						
18/8/2020	15:45:00	18/8/2020	15:50:00	54.4	49.3	52.5						
18/8/2020	15:50:00	18/8/2020	15:55:00	58.1	48.9	55.5						
18/8/2020	15:55:00	18/8/2020	16:00:00	59.6	53.2	56.7						
18/8/2020	16:00:00	18/8/2020	16:05:00	58.0	53.4	56.4	60.8	63.8	53.3	56.3	58.2	61.2
18/8/2020	16:05:00	18/8/2020	16:10:00	59.2	53.4	57.1						
18/8/2020	16:10:00	18/8/2020	16:15:00	57.5	53.3	57.0						
18/8/2020	16:15:00	18/8/2020	16:20:00	57.4	53.2	57.1						
18/8/2020	16:20:00	18/8/2020	16:25:00	60.9	53.3	58.4						
18/8/2020	16:25:00	18/8/2020	16:30:00	65.3	53.4	61.3						
18/8/2020	16:30:00	18/8/2020	16:35:00	58.6	53.0	56.4	58.9	61.9	53.1	56.1	56.5	59.5
18/8/2020	16:35:00	18/8/2020	16:40:00	58.7	53.6	56.5						
18/8/2020	16:40:00	18/8/2020	16:45:00	59.9	52.7	57.0						
18/8/2020	16:45:00	18/8/2020	16:50:00	60.3	53.3	57.7						
18/8/2020	16:50:00	18/8/2020	16:55:00	57.2	52.8	55.5						
18/8/2020	16:55:00	18/8/2020	17:00:00	57.7	53.1	55.7						
18/8/2020	17:00:00	18/8/2020	17:05:00	57.8	52.8	55.7	58.3	61.3	52.4	55.4	56.6	59.6
18/8/2020	17:05:00	18/8/2020	17:10:00	56.5	52.0	54.6						
18/8/2020	17:10:00	18/8/2020	17:15:00	56.7	52.5	55.1						
18/8/2020	17:15:00	18/8/2020	17:20:00	60.5	52.1	58.9						
18/8/2020	17:20:00	18/8/2020	17:25:00	58.4	52.4	57.1						
18/8/2020	17:25:00	18/8/2020	17:30:00	58.5	52.6	56.9						
18/8/2020	17:30:00	18/8/2020	17:35:00	59.6	52.4	56.9	60.2	63.2	51.7	54.7	57.1	60.1
18/8/2020	17:35:00	18/8/2020	17:40:00	57.3	51.6	54.8						
18/8/2020	17:40:00	18/8/2020	17:45:00	60.0	52.0	55.3						
18/8/2020	17:45:00	18/8/2020	17:50:00	58.3	52.6	56.0						
18/8/2020	17:50:00	18/8/2020	17:55:00	60.0	50.6	57.1						
18/8/2020	17:55:00	18/8/2020	18:00:00	63.3	50.5	60.1						
18/8/2020	18:00:00	18/8/2020	18:05:00	56.4	50.1	55.1	57.4	60.4	50.4	53.4	55.5	58.5
18/8/2020	18:05:00	18/8/2020	18:10:00	54.6	50.1	52.7						
18/8/2020	18:10:00	18/8/2020	18:15:00	60.6	50.2	57.8						
18/8/2020	18:15:00	18/8/2020	18:20:00	55.8	50.9	53.6						
18/8/2020	18:20:00	18/8/2020	18:25:00	55.5	50.5	54.1						
18/8/2020	18:25:00	18/8/2020	18:30:00	58.3	50.6	57.3						
18/8/2020	18:30:00	18/8/2020	18:35:00	56.5	51.2	54.6	57.1	60.1	51.7	54.7	55.2	58.2
18/8/2020	18:35:00	18/8/2020	18:40:00	58.7	51.4	56.7						
18/8/2020	18:40:00	18/8/2020	18:45:00	57.4	51.5	54.9						
18/8/2020	18:45:00	18/8/2020	18:50:00	55.3	51.1	53.2						
18/8/2020	18:50:00	18/8/2020	18:55:00	56.8	51.2	55.5						
18/8/2020	18:55:00	18/8/2020	19:00:00	57.4	53.2	55.7						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
19/8/2020	13:30:00	19/8/2020	13:35:00	62.1	57.9	60.4	61.6	64.6	57.6	60.6	59.8	62.8
19/8/2020	13:35:00	19/8/2020	13:40:00	61.8	57.8	60.0						
19/8/2020	13:40:00	19/8/2020	13:45:00	61.8	57.9	60.1						
19/8/2020	13:45:00	19/8/2020	13:50:00	61.3	57.4	59.5						
19/8/2020	13:50:00	19/8/2020	13:55:00	61.5	57.8	59.9						
19/8/2020	13:55:00	19/8/2020	14:00:00	60.7	57.0	58.9						
19/8/2020	14:00:00	19/8/2020	14:05:00	62.1	57.1	59.8	63.1	66.1	57.4	60.4	60.3	63.3
19/8/2020	14:05:00	19/8/2020	14:10:00	63.2	57.2	60.2						
19/8/2020	14:10:00	19/8/2020	14:15:00	64.5	58.3	62.0						
19/8/2020	14:15:00	19/8/2020	14:20:00	63.3	57.3	61.0						
19/8/2020	14:20:00	19/8/2020	14:25:00	61.2	57.3	59.6						
19/8/2020	14:25:00	19/8/2020	14:30:00	63.8	57.0	58.1						
19/8/2020	14:30:00	19/8/2020	14:35:00	63.2	56.8	61.1	61.9	64.9	56.3	59.3	60.2	63.2
19/8/2020	14:35:00	19/8/2020	14:40:00	63.2	56.4	60.8						
19/8/2020	14:40:00	19/8/2020	14:45:00	60.8	56.5	60.4						
19/8/2020	14:45:00	19/8/2020	14:50:00	61.4	55.8	60.4						
19/8/2020	14:50:00	19/8/2020	14:55:00	61.1	56.3	59.5						
19/8/2020	14:55:00	19/8/2020	15:00:00	61.2	55.8	58.8						
19/8/2020	15:00:00	19/8/2020	15:05:00	61.8	56.0	57.4	61.4	64.4	57.0	60.0	59.3	62.3
19/8/2020	15:05:00	19/8/2020	15:10:00	62.4	56.9	61.0						
19/8/2020	15:10:00	19/8/2020	15:15:00	61.3	57.1	59.6						
19/8/2020	15:15:00	19/8/2020	15:20:00	61.2	57.8	59.6						
19/8/2020	15:20:00	19/8/2020	15:25:00	60.7	57.1	59.1						
19/8/2020	15:25:00	19/8/2020	15:30:00	60.9	57.2	58.3						
19/8/2020	15:30:00	19/8/2020	15:35:00	61.5	57.0	59.6	61.1	64.1	56.9	59.9	59.3	62.3
19/8/2020	15:35:00	19/8/2020	15:40:00	60.7	56.9	59.6						
19/8/2020	15:40:00	19/8/2020	15:45:00	61.8	57.3	59.9						
19/8/2020	15:45:00	19/8/2020	15:50:00	61.4	56.8	59.3						
19/8/2020	15:50:00	19/8/2020	15:55:00	60.1	56.8	58.4						
19/8/2020	15:55:00	19/8/2020	16:00:00	60.9	56.8	58.9						
19/8/2020	16:00:00	19/8/2020	16:05:00	62.0	56.6	60.7	65.1	68.1	56.8	59.8	62.4	65.4
19/8/2020	16:05:00	19/8/2020	16:10:00	59.7	56.4	58.0						
19/8/2020	16:10:00	19/8/2020	16:15:00	61.5	56.9	57.3						
19/8/2020	16:15:00	19/8/2020	16:20:00	69.5	57.1	65.9						
19/8/2020	16:20:00	19/8/2020	16:25:00	63.8	57.0	62.2						
19/8/2020	16:25:00	19/8/2020	16:30:00	66.4	56.9	64.2						
19/8/2020	16:30:00	19/8/2020	16:35:00	61.3	57.1	59.6	61.6	64.6	57.1	60.1	59.6	62.6
19/8/2020	16:35:00	19/8/2020	16:40:00	60.9	57.0	59.1						
19/8/2020	16:40:00	19/8/2020	16:45:00	60.9	56.9	59.0						
19/8/2020	16:45:00	19/8/2020	16:50:00	64.0	57.5	61.5						
19/8/2020	16:50:00	19/8/2020	16:55:00	60.5	56.8	58.7						
19/8/2020	16:55:00	19/8/2020	17:00:00	60.6	57.1	58.9						
19/8/2020	17:00:00	19/8/2020	17:05:00	63.9	56.3	61.7	61.3	64.3	56.3	59.3	59.5	62.5
19/8/2020	17:05:00	19/8/2020	17:10:00	60.3	56.2	58.1						
19/8/2020	17:10:00	19/8/2020	17:15:00	60.4	56.6	58.7						
19/8/2020	17:15:00	19/8/2020	17:20:00	61.6	56.4	60.5						
19/8/2020	17:20:00	19/8/2020	17:25:00	59.1	56.1	57.5						
19/8/2020	17:25:00	19/8/2020	17:30:00	60.8	56.4	58.8						
19/8/2020	17:30:00	19/8/2020	17:35:00	60.3	56.5	58.5	61.7	64.7	56.3	59.3	59.5	62.5
19/8/2020	17:35:00	19/8/2020	17:40:00	59.9	56.4	58.9						
19/8/2020	17:40:00	19/8/2020	17:45:00	60.5	56.3	58.4						
19/8/2020	17:45:00	19/8/2020	17:50:00	66.0	56.8	63.0						
19/8/2020	17:50:00	19/8/2020	17:55:00	59.1	56.2	57.8						
19/8/2020	17:55:00	19/8/2020	18:00:00	59.9	55.8	57.8						
19/8/2020	18:00:00	19/8/2020	18:05:00	58.7	55.7	57.3	59.6	62.6	55.8	58.8	57.8	60.8
19/8/2020	18:05:00	19/8/2020	18:10:00	59.3	55.8	57.4						
19/8/2020	18:10:00	19/8/2020	18:15:00	61.4	55.8	58.8						
19/8/2020	18:15:00	19/8/2020	18:20:00	59.1	55.8	57.7						
19/8/2020	18:20:00	19/8/2020	18:25:00	58.5	55.8	57.2						
19/8/2020	18:25:00	19/8/2020	18:30:00	59.9	55.9	58.0						
19/8/2020	18:30:00	19/8/2020	18:35:00	59.1	55.8	57.4	60.0	63.0	56.0	59.0	58.3	61.3
19/8/2020	18:35:00	19/8/2020	18:40:00	60.9	56.0	58.6						
19/8/2020	18:40:00	19/8/2020	18:45:00	61.3	55.9	59.8						
19/8/2020	18:45:00	19/8/2020	18:50:00	59.7	56.2	58.4						
19/8/2020	18:50:00	19/8/2020	18:55:00	58.7	55.9	57.3						
19/8/2020	18:55:00	19/8/2020	19:00:00	59.8	56.0	57.8						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
20/8/2020	7:00:00	20/8/2020	7:05:00	57.6	52.3	55.2	58.2	61.2	52.2	55.2	56.0	59.0
20/8/2020	7:05:00	20/8/2020	7:10:00	57.8	52.3	55.6						
20/8/2020	7:10:00	20/8/2020	7:15:00	56.7	52.2	54.8						
20/8/2020	7:15:00	20/8/2020	7:20:00	56.9	51.6	55.0						
20/8/2020	7:20:00	20/8/2020	7:25:00	56.7	51.5	54.8						
20/8/2020	7:25:00	20/8/2020	7:30:00	61.4	52.9	58.8						
20/8/2020	7:30:00	20/8/2020	7:35:00	58.8	52.6	56.3	57.9	60.9	52.3	55.3	55.8	58.8
20/8/2020	7:35:00	20/8/2020	7:40:00	57.4	52.7	55.5						
20/8/2020	7:40:00	20/8/2020	7:45:00	58.5	52.2	56.5						
20/8/2020	7:45:00	20/8/2020	7:50:00	57.5	52.3	55.6						
20/8/2020	7:50:00	20/8/2020	7:55:00	56.8	51.6	55.0						
20/8/2020	7:55:00	20/8/2020	8:00:00	57.9	52.1	55.9						
20/8/2020	8:00:00	20/8/2020	8:05:00	57.7	51.8	55.3	58.9	61.9	51.7	54.7	56.8	59.8
20/8/2020	8:05:00	20/8/2020	8:10:00	56.9	51.6	54.7						
20/8/2020	8:10:00	20/8/2020	8:15:00	56.5	51.1	54.3						
20/8/2020	8:15:00	20/8/2020	8:20:00	60.6	51.6	59.2						
20/8/2020	8:20:00	20/8/2020	8:25:00	61.4	52.5	59.0						
20/8/2020	8:25:00	20/8/2020	8:30:00	57.6	51.2	55.6						
20/8/2020	8:30:00	20/8/2020	8:35:00	59.9	53.9	58.5	60.6	63.6	55.4	58.4	58.7	61.7
20/8/2020	8:35:00	20/8/2020	8:40:00	57.7	51.3	55.2						
20/8/2020	8:40:00	20/8/2020	8:45:00	60.6	50.8	57.7						
20/8/2020	8:45:00	20/8/2020	8:50:00	62.0	58.9	60.9						
20/8/2020	8:50:00	20/8/2020	8:55:00	61.0	56.2	59.0						
20/8/2020	8:55:00	20/8/2020	9:00:00	61.1	56.0	58.8						
20/8/2020	9:00:00	20/8/2020	9:05:00	56.7	52.4	54.7	61.1	64.1	52.6	55.6	58.0	61.0
20/8/2020	9:05:00	20/8/2020	9:10:00	62.0	53.6	59.9						
20/8/2020	9:10:00	20/8/2020	9:15:00	59.7	52.9	57.2						
20/8/2020	9:15:00	20/8/2020	9:20:00	63.2	51.6	59.3						
20/8/2020	9:20:00	20/8/2020	9:25:00	58.2	52.4	55.4						
20/8/2020	9:25:00	20/8/2020	9:30:00	62.9	52.4	59.1						
20/8/2020	9:30:00	20/8/2020	9:35:00	62.0	57.9	60.0	62.3	65.3	58.4	61.4	60.7	63.7
20/8/2020	9:35:00	20/8/2020	9:40:00	61.3	57.9	59.6						
20/8/2020	9:40:00	20/8/2020	9:45:00	61.8	58.7	60.4						
20/8/2020	9:45:00	20/8/2020	9:50:00	62.9	58.4	60.9						
20/8/2020	9:50:00	20/8/2020	9:55:00	63.2	58.9	62.2						
20/8/2020	9:55:00	20/8/2020	10:00:00	62.2	58.3	60.3						
20/8/2020	10:00:00	20/8/2020	10:05:00	62.6	58.4	60.6	63.2	66.2	59.0	62.0	61.4	64.4
20/8/2020	10:05:00	20/8/2020	10:10:00	63.9	59.3	62.1						
20/8/2020	10:10:00	20/8/2020	10:15:00	63.4	59.2	62.2						
20/8/2020	10:15:00	20/8/2020	10:20:00	63.7	58.8	61.2						
20/8/2020	10:20:00	20/8/2020	10:25:00	63.3	59.1	61.4						
20/8/2020	10:25:00	20/8/2020	10:30:00	62.0	59.4	60.7						
20/8/2020	10:30:00	20/8/2020	10:35:00	62.7	59.4	61.2	63.2	66.2	58.5	61.5	61.2	64.2
20/8/2020	10:35:00	20/8/2020	10:40:00	63.5	58.2	61.3						
20/8/2020	10:40:00	20/8/2020	10:45:00	64.1	58.3	62.0						
20/8/2020	10:45:00	20/8/2020	10:50:00	63.4	57.9	61.5						
20/8/2020	10:50:00	20/8/2020	10:55:00	62.6	58.7	60.5						
20/8/2020	10:55:00	20/8/2020	11:00:00	62.7	58.1	60.6						
20/8/2020	11:00:00	20/8/2020	11:05:00	67.7	59.5	64.2	64.8	67.8	58.9	61.9	62.3	65.3
20/8/2020	11:05:00	20/8/2020	11:10:00	63.1	58.9	61.3						
20/8/2020	11:10:00	20/8/2020	11:15:00	65.1	59.0	62.5						
20/8/2020	11:15:00	20/8/2020	11:20:00	64.0	58.8	61.8						
20/8/2020	11:20:00	20/8/2020	11:25:00	65.1	58.9	63.0						
20/8/2020	11:25:00	20/8/2020	11:30:00	61.5	57.9	59.7						
20/8/2020	11:30:00	20/8/2020	11:35:00	63.3	58.2	61.3	62.9	65.9	58.2	61.2	61.3	64.3
20/8/2020	11:35:00	20/8/2020	11:40:00	62.4	57.9	61.2						
20/8/2020	11:40:00	20/8/2020	11:45:00	61.1	58.0	59.6						
20/8/2020	11:45:00	20/8/2020	11:50:00	62.0	58.4	60.7						
20/8/2020	11:50:00	20/8/2020	11:55:00	63.8	58.6	62.1						
20/8/2020	11:55:00	20/8/2020	12:00:00	64.2	58.2	62.4						
20/8/2020	12:00:00	20/8/2020	12:05:00	61.4	58.1	60.2	63.8	66.8	57.8	60.8	62.2	65.2
20/8/2020	12:05:00	20/8/2020	12:10:00	61.9	58.0	60.3						
20/8/2020	12:10:00	20/8/2020	12:15:00	61.8	57.6	59.9						
20/8/2020	12:15:00	20/8/2020	12:20:00	62.3	57.9	60.1						
20/8/2020	12:20:00	20/8/2020	12:25:00	67.3	58.0	65.5						
20/8/2020	12:25:00	20/8/2020	12:30:00	64.8	57.4	63.7						

20/8/2020	12:30:00	20/8/2020	12:35:00	62.3	57.8	60.4	61.8	64.8	57.4	60.4	59.9	62.9
20/8/2020	12:35:00	20/8/2020	12:40:00	61.1	57.6	59.4						
20/8/2020	12:40:00	20/8/2020	12:45:00	61.4	57.7	60.3						
20/8/2020	12:45:00	20/8/2020	12:50:00	62.0	57.6	59.6						
20/8/2020	12:50:00	20/8/2020	12:55:00	63.3	57.6	61.2						
20/8/2020	12:55:00	20/8/2020	13:00:00	60.0	55.6	57.3						
20/8/2020	13:00:00	20/8/2020	13:05:00	60.8	56.0	58.9	61.5	64.5	55.9	58.9	59.5	62.5
20/8/2020	13:05:00	20/8/2020	13:10:00	63.1	56.4	61.3						
20/8/2020	13:10:00	20/8/2020	13:15:00	58.5	55.6	57.0						
20/8/2020	13:15:00	20/8/2020	13:20:00	64.0	55.8	61.3						
20/8/2020	13:20:00	20/8/2020	13:25:00	59.9	55.6	58.3						
20/8/2020	13:25:00	20/8/2020	13:30:00	60.3	55.9	58.2						
20/8/2020	13:30:00	20/8/2020	13:35:00	61.6	56.3	59.1	62.2	65.2	56.1	59.1	61.0	64.0
20/8/2020	13:35:00	20/8/2020	13:40:00	63.1	56.9	62.5						
20/8/2020	13:40:00	20/8/2020	13:45:00	60.9	56.0	59.0						
20/8/2020	13:45:00	20/8/2020	13:50:00	62.1	55.7	61.6						
20/8/2020	13:50:00	20/8/2020	13:55:00	64.3	55.7	63.1						
20/8/2020	13:55:00	20/8/2020	14:00:00	59.4	55.7	58.1						
20/8/2020	14:00:00	20/8/2020	14:05:00	61.7	56.1	59.7	60.6	63.6	56.4	59.4	58.9	61.9
20/8/2020	14:05:00	20/8/2020	14:10:00	60.3	56.5	58.6						
20/8/2020	14:10:00	20/8/2020	14:15:00	60.7	56.2	58.7						
20/8/2020	14:15:00	20/8/2020	14:20:00	60.3	56.6	58.5						
20/8/2020	14:20:00	20/8/2020	14:25:00	59.8	56.6	58.3						
20/8/2020	14:25:00	20/8/2020	14:30:00	60.5	56.1	59.2						
20/8/2020	14:30:00	20/8/2020	14:35:00	60.4	56.2	59.0	61.0	64.0	56.7	59.7	59.1	62.1
20/8/2020	14:35:00	20/8/2020	14:40:00	60.4	56.5	58.9						
20/8/2020	14:40:00	20/8/2020	14:45:00	60.6	56.3	58.6						
20/8/2020	14:45:00	20/8/2020	14:50:00	61.7	56.6	59.1						
20/8/2020	14:50:00	20/8/2020	14:55:00	62.0	57.6	60.0						
20/8/2020	14:55:00	20/8/2020	15:00:00	60.7	56.9	58.9						
20/8/2020	15:00:00	20/8/2020	15:05:00	61.5	57.3	60.4	62.2	65.2	57.3	60.3	60.7	63.7
20/8/2020	15:05:00	20/8/2020	15:10:00	64.1	57.3	63.6						
20/8/2020	15:10:00	20/8/2020	15:15:00	63.0	57.5	60.5						
20/8/2020	15:15:00	20/8/2020	15:20:00	61.5	57.3	59.5						
20/8/2020	15:20:00	20/8/2020	15:25:00	61.3	57.3	59.5						
20/8/2020	15:25:00	20/8/2020	15:30:00	60.7	57.2	59.1						
20/8/2020	15:30:00	20/8/2020	15:35:00	63.6	57.5	61.4	63.3	66.3	58.4	61.4	61.4	64.4
20/8/2020	15:35:00	20/8/2020	15:40:00	61.6	57.4	59.8						
20/8/2020	15:40:00	20/8/2020	15:45:00	64.6	58.1	62.2						
20/8/2020	15:45:00	20/8/2020	15:50:00	63.3	59.0	61.6						
20/8/2020	15:50:00	20/8/2020	15:55:00	63.3	59.2	61.7						
20/8/2020	15:55:00	20/8/2020	16:00:00	63.1	59.1	61.5						
20/8/2020	16:00:00	20/8/2020	16:05:00	65.6	58.9	63.1	67.6	70.6	58.8	61.8	65.2	68.2
20/8/2020	16:05:00	20/8/2020	16:10:00	64.7	58.8	62.0						
20/8/2020	16:10:00	20/8/2020	16:15:00	64.3	58.8	62.1						
20/8/2020	16:15:00	20/8/2020	16:20:00	70.1	59.2	67.4						
20/8/2020	16:20:00	20/8/2020	16:25:00	71.3	59.0	69.0						
20/8/2020	16:25:00	20/8/2020	16:30:00	61.7	58.3	60.3						
20/8/2020	16:30:00	20/8/2020	16:35:00	68.2	58.9	64.2	64.2	67.2	58.0	61.0	61.6	64.6
20/8/2020	16:35:00	20/8/2020	16:40:00	63.4	58.2	61.1						
20/8/2020	16:40:00	20/8/2020	16:45:00	62.8	58.1	61.1						
20/8/2020	16:45:00	20/8/2020	16:50:00	62.8	57.4	60.5						
20/8/2020	16:50:00	20/8/2020	16:55:00	61.7	57.5	59.8						
20/8/2020	16:55:00	20/8/2020	17:00:00	62.0	57.8	61.2						
20/8/2020	17:00:00	20/8/2020	17:05:00	62.1	58.0	60.8	62.1	65.1	57.4	60.4	60.5	63.5
20/8/2020	17:05:00	20/8/2020	17:10:00	61.3	57.6	59.6						
20/8/2020	17:10:00	20/8/2020	17:15:00	61.8	57.1	60.1						
20/8/2020	17:15:00	20/8/2020	17:20:00	62.7	57.0	60.6						
20/8/2020	17:20:00	20/8/2020	17:25:00	62.3	57.4	60.6						
20/8/2020	17:25:00	20/8/2020	17:30:00	62.1	57.5	61.3						
20/8/2020	17:30:00	20/8/2020	17:35:00	62.6	57.2	61.9	64.1	67.1	57.4	60.4	62.4	65.4
20/8/2020	17:35:00	20/8/2020	17:40:00	61.9	57.4	60.1						
20/8/2020	17:40:00	20/8/2020	17:45:00	63.4	57.6	61.7						
20/8/2020	17:45:00	20/8/2020	17:50:00	67.4	57.7	66.3						
20/8/2020	17:50:00	20/8/2020	17:55:00	65.0	57.4	61.6						
20/8/2020	17:55:00	20/8/2020	18:00:00	60.5	56.9	58.8						
20/8/2020	18:00:00	20/8/2020	18:05:00	61.9	57.6	59.6	62.5	65.5	56.8	59.8	60.5	63.5
20/8/2020	18:05:00	20/8/2020	18:10:00	61.4	57.0	59.7						
20/8/2020	18:10:00	20/8/2020	18:15:00	60.8	56.7	59.1						
20/8/2020	18:15:00	20/8/2020	18:20:00	61.7	56.8	59.7						
20/8/2020	18:20:00	20/8/2020	18:25:00	65.3	56.7	62.8						
20/8/2020	18:25:00	20/8/2020	18:30:00	62.0	55.6	60.7						
20/8/2020	18:30:00	20/8/2020	18:35:00	60.4	56.0	58.2	63.2	66.2	55.9	58.9	61.4	64.4
20/8/2020	18:35:00	20/8/2020	18:40:00	65.6	55.3	62.3						
20/8/2020	18:40:00	20/8/2020	18:45:00	65.1	55.5	64.1						
20/8/2020	18:45:00	20/8/2020	18:50:00	61.7	55.8	60.7						
20/8/2020	18:50:00	20/8/2020	18:55:00	62.6	55.6	61.1						
20/8/2020	18:55:00	20/8/2020	19:00:00	61.5	56.8	59.3						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
21/8/2020	7:00:00	21/8/2020	7:05:00	58.0	52.9	56.3	58.6	61.6	53.1	56.1	56.7	59.7
21/8/2020	7:05:00	21/8/2020	7:10:00	58.1	53.0	56.2						
21/8/2020	7:10:00	21/8/2020	7:15:00	57.7	53.2	55.9						
21/8/2020	7:15:00	21/8/2020	7:20:00	58.7	53.2	56.5						
21/8/2020	7:20:00	21/8/2020	7:25:00	58.0	53.2	57.2						
21/8/2020	7:25:00	21/8/2020	7:30:00	60.5	53.1	57.6						
21/8/2020	7:30:00	21/8/2020	7:35:00	60.3	52.7	58.1	57.9	60.9	52.4	55.4	56.0	59.0
21/8/2020	7:35:00	21/8/2020	7:40:00	57.4	52.3	55.6						
21/8/2020	7:40:00	21/8/2020	7:45:00	57.5	52.3	55.5						
21/8/2020	7:45:00	21/8/2020	7:50:00	58.6	52.6	56.8						
21/8/2020	7:50:00	21/8/2020	7:55:00	55.8	52.2	54.2						
21/8/2020	7:55:00	21/8/2020	8:00:00	56.3	52.1	54.4						
21/8/2020	8:00:00	21/8/2020	8:05:00	65.6	52.9	61.9	62.2	65.2	53.6	56.6	59.1	62.1
21/8/2020	8:05:00	21/8/2020	8:10:00	58.7	53.0	56.4						
21/8/2020	8:10:00	21/8/2020	8:15:00	63.2	52.8	60.4						
21/8/2020	8:15:00	21/8/2020	8:20:00	62.9	52.7	58.4						
21/8/2020	8:20:00	21/8/2020	8:25:00	56.7	52.7	54.9						
21/8/2020	8:25:00	21/8/2020	8:30:00	60.6	56.3	58.8						
21/8/2020	8:30:00	21/8/2020	8:35:00	60.1	55.7	58.2	58.8	61.8	53.0	56.0	56.3	59.3
21/8/2020	8:35:00	21/8/2020	8:40:00	57.9	52.6	55.5						
21/8/2020	8:40:00	21/8/2020	8:45:00	57.5	52.0	55.6						
21/8/2020	8:45:00	21/8/2020	8:50:00	58.9	52.2	56.1						
21/8/2020	8:50:00	21/8/2020	8:55:00	59.2	51.8	56.3						
21/8/2020	8:55:00	21/8/2020	9:00:00	58.4	52.4	55.7						
21/8/2020	9:00:00	21/8/2020	9:05:00	60.6	56.8	59.5	60.5	63.5	55.1	58.1	58.6	61.6
21/8/2020	9:05:00	21/8/2020	9:10:00	60.0	55.4	58.1						
21/8/2020	9:10:00	21/8/2020	9:15:00	59.3	54.6	58.3						
21/8/2020	9:15:00	21/8/2020	9:20:00	58.2	54.2	56.6						
21/8/2020	9:20:00	21/8/2020	9:25:00	59.4	54.5	57.5						
21/8/2020	9:25:00	21/8/2020	9:30:00	63.3	54.2	60.3						
21/8/2020	9:30:00	21/8/2020	9:35:00	60.0	54.9	57.9	60.4	63.4	54.7	57.7	58.6	61.6
21/8/2020	9:35:00	21/8/2020	9:40:00	62.0	55.4	59.4						
21/8/2020	9:40:00	21/8/2020	9:45:00	59.5	54.8	57.7						
21/8/2020	9:45:00	21/8/2020	9:50:00	59.9	54.6	57.4						
21/8/2020	9:50:00	21/8/2020	9:55:00	59.2	54.1	58.1						
21/8/2020	9:55:00	21/8/2020	10:00:00	61.2	54.3	60.3						
21/8/2020	10:00:00	21/8/2020	10:05:00	59.5	54.1	57.6	63.0	66.0	57.3	60.3	60.2	63.2
21/8/2020	10:05:00	21/8/2020	10:10:00	60.0	54.4	57.6						
21/8/2020	10:10:00	21/8/2020	10:15:00	63.1	58.3	60.5						
21/8/2020	10:15:00	21/8/2020	10:20:00	64.3	58.2	61.1						
21/8/2020	10:20:00	21/8/2020	10:25:00	63.0	58.0	60.3						
21/8/2020	10:25:00	21/8/2020	10:30:00	65.2	58.4	62.3						
21/8/2020	10:30:00	21/8/2020	10:35:00	68.1	58.6	66.2	67.0	70.0	57.6	60.6	64.3	67.3
21/8/2020	10:35:00	21/8/2020	10:40:00	69.5	57.6	65.5						
21/8/2020	10:40:00	21/8/2020	10:45:00	67.4	58.0	66.4						
21/8/2020	10:45:00	21/8/2020	10:50:00	63.9	56.9	60.6						
21/8/2020	10:50:00	21/8/2020	10:55:00	66.6	57.6	62.4						
21/8/2020	10:55:00	21/8/2020	11:00:00	63.8	56.8	60.5						
21/8/2020	11:00:00	21/8/2020	11:05:00	62.9	56.7	59.9	65.4	68.4	56.8	59.8	62.6	65.6
21/8/2020	11:05:00	21/8/2020	11:10:00	65.6	57.3	61.6						
21/8/2020	11:10:00	21/8/2020	11:15:00	69.6	57.4	67.5						
21/8/2020	11:15:00	21/8/2020	11:20:00	63.3	56.6	59.7						
21/8/2020	11:20:00	21/8/2020	11:25:00	62.0	56.4	59.6						
21/8/2020	11:25:00	21/8/2020	11:30:00	63.8	56.2	60.1						
21/8/2020	11:30:00	21/8/2020	11:35:00	63.1	56.4	60.7	62.9	65.9	56.4	59.4	59.8	62.8
21/8/2020	11:35:00	21/8/2020	11:40:00	62.1	56.9	59.1						
21/8/2020	11:40:00	21/8/2020	11:45:00	65.3	56.5	61.7						
21/8/2020	11:45:00	21/8/2020	11:50:00	61.5	55.5	58.3						
21/8/2020	11:50:00	21/8/2020	11:55:00	62.4	56.5	59.3						
21/8/2020	11:55:00	21/8/2020	12:00:00	61.7	56.4	58.9						
21/8/2020	12:00:00	21/8/2020	12:05:00	63.3	56.8	60.2	62.9	65.9	55.8	58.8	59.6	62.6
21/8/2020	12:05:00	21/8/2020	12:10:00	62.0	55.9	59.0						
21/8/2020	12:10:00	21/8/2020	12:15:00	61.6	55.2	58.4						
21/8/2020	12:15:00	21/8/2020	12:20:00	62.2	55.3	58.8						
21/8/2020	12:20:00	21/8/2020	12:25:00	65.6	55.4	61.8						
21/8/2020	12:25:00	21/8/2020	12:30:00	61.3	55.8	58.6						

21/8/2020	12:30:00	21/8/2020	12:35:00	63.6	56.4	61.8	64.8	67.8	55.6	58.6	62.7	65.7
21/8/2020	12:35:00	21/8/2020	12:40:00	66.5	56.0	64.1						
21/8/2020	12:40:00	21/8/2020	12:45:00	60.0	55.0	57.3						
21/8/2020	12:45:00	21/8/2020	12:50:00	61.2	55.8	58.2						
21/8/2020	12:50:00	21/8/2020	12:55:00	65.4	55.5	65.0						
21/8/2020	12:55:00	21/8/2020	13:00:00	67.4	54.9	64.2						
21/8/2020	13:00:00	21/8/2020	13:05:00	62.4	55.1	59.2	64.8	67.8	56.2	59.2	61.4	64.4
21/8/2020	13:05:00	21/8/2020	13:10:00	60.7	54.6	57.6						
21/8/2020	13:10:00	21/8/2020	13:15:00	61.7	54.2	60.2						
21/8/2020	13:15:00	21/8/2020	13:20:00	62.2	54.2	58.6						
21/8/2020	13:20:00	21/8/2020	13:25:00	66.9	55.7	63.0						
21/8/2020	13:25:00	21/8/2020	13:30:00	68.6	60.0	64.9						
21/8/2020	13:30:00	21/8/2020	13:35:00	67.8	58.6	64.2	73.1	76.1	62.3	65.3	68.5	71.5
21/8/2020	13:35:00	21/8/2020	13:40:00	71.8	60.1	67.4						
21/8/2020	13:40:00	21/8/2020	13:45:00	71.2	60.5	66.8						
21/8/2020	13:45:00	21/8/2020	13:50:00	78.2	65.6	73.2						
21/8/2020	13:50:00	21/8/2020	13:55:00	70.9	63.9	67.4						
21/8/2020	13:55:00	21/8/2020	14:00:00	69.3	61.3	65.6						
21/8/2020	14:00:00	21/8/2020	14:05:00	65.8	59.8	62.8	68.5	71.5	58.6	61.6	65.3	68.3
21/8/2020	14:05:00	21/8/2020	14:10:00	64.7	58.2	61.7						
21/8/2020	14:10:00	21/8/2020	14:15:00	63.2	56.3	60.1						
21/8/2020	14:15:00	21/8/2020	14:20:00	63.1	56.8	59.8						
21/8/2020	14:20:00	21/8/2020	14:25:00	73.7	55.9	70.5						
21/8/2020	14:25:00	21/8/2020	14:30:00	69.2	61.7	65.8						
21/8/2020	14:30:00	21/8/2020	14:35:00	66.1	59.6	62.7	64.7	67.7	58.2	61.2	61.6	64.6
21/8/2020	14:35:00	21/8/2020	14:40:00	64.1	58.3	61.0						
21/8/2020	14:40:00	21/8/2020	14:45:00	62.7	56.4	59.7						
21/8/2020	14:45:00	21/8/2020	14:50:00	63.3	57.7	60.6						
21/8/2020	14:50:00	21/8/2020	14:55:00	65.0	58.1	61.6						
21/8/2020	14:55:00	21/8/2020	15:00:00	65.7	58.6	63.0						
21/8/2020	15:00:00	21/8/2020	15:05:00	64.9	58.5	61.7	66.2	69.2	57.9	60.9	62.4	65.4
21/8/2020	15:05:00	21/8/2020	15:10:00	65.4	58.6	62.1						
21/8/2020	15:10:00	21/8/2020	15:15:00	64.4	57.6	61.2						
21/8/2020	15:15:00	21/8/2020	15:20:00	65.1	57.0	61.5						
21/8/2020	15:20:00	21/8/2020	15:25:00	65.2	58.4	61.8						
21/8/2020	15:25:00	21/8/2020	15:30:00	69.7	56.7	64.9						
21/8/2020	15:30:00	21/8/2020	15:35:00	65.9	56.0	61.6	66.0	69.0	56.2	59.2	62.2	65.2
21/8/2020	15:35:00	21/8/2020	15:40:00	66.3	56.5	62.1						
21/8/2020	15:40:00	21/8/2020	15:45:00	63.7	55.9	60.4						
21/8/2020	15:45:00	21/8/2020	15:50:00	69.3	56.6	65.8						
21/8/2020	15:50:00	21/8/2020	15:55:00	63.9	55.8	60.1						
21/8/2020	15:55:00	21/8/2020	16:00:00	63.9	56.2	60.2						
21/8/2020	16:00:00	21/8/2020	16:05:00	63.8	56.0	60.3	63.5	66.5	55.7	58.7	59.9	62.9
21/8/2020	16:05:00	21/8/2020	16:10:00	62.9	56.0	59.7						
21/8/2020	16:10:00	21/8/2020	16:15:00	62.4	55.8	59.2						
21/8/2020	16:15:00	21/8/2020	16:20:00	65.5	55.2	61.0						
21/8/2020	16:20:00	21/8/2020	16:25:00	63.0	55.4	59.6						
21/8/2020	16:25:00	21/8/2020	16:30:00	62.7	55.7	59.4						
21/8/2020	16:30:00	21/8/2020	16:35:00	62.3	56.2	59.3	61.5	64.5	55.3	58.3	58.9	61.9
21/8/2020	16:35:00	21/8/2020	16:40:00	61.1	55.6	58.7						
21/8/2020	16:40:00	21/8/2020	16:45:00	60.4	55.1	57.6						
21/8/2020	16:45:00	21/8/2020	16:50:00	62.2	54.9	59.0						
21/8/2020	16:50:00	21/8/2020	16:55:00	62.8	55.1	61.0						
21/8/2020	16:55:00	21/8/2020	17:00:00	59.3	55.0	56.9						
21/8/2020	17:00:00	21/8/2020	17:05:00	61.0	55.0	58.9	63.1	66.1	55.0	58.0	59.7	62.7
21/8/2020	17:05:00	21/8/2020	17:10:00	60.1	54.8	57.3						
21/8/2020	17:10:00	21/8/2020	17:15:00	60.8	55.0	58.6						
21/8/2020	17:15:00	21/8/2020	17:20:00	60.2	55.1	57.5						
21/8/2020	17:20:00	21/8/2020	17:25:00	62.7	55.1	58.8						
21/8/2020	17:25:00	21/8/2020	17:30:00	67.7	55.1	63.5						
21/8/2020	17:30:00	21/8/2020	17:35:00	61.3	55.5	58.6	61.7	64.7	55.2	58.2	58.7	61.7
21/8/2020	17:35:00	21/8/2020	17:40:00	60.6	55.0	58.0						
21/8/2020	17:40:00	21/8/2020	17:45:00	62.0	55.3	58.8						
21/8/2020	17:45:00	21/8/2020	17:50:00	62.1	55.3	59.1						
21/8/2020	17:50:00	21/8/2020	17:55:00	62.6	55.5	59.4						
21/8/2020	17:55:00	21/8/2020	18:00:00	61.0	54.7	58.3						
21/8/2020	18:00:00	21/8/2020	18:05:00	62.0	54.7	58.8	64.4	67.4	54.7	57.7	60.3	63.3
21/8/2020	18:05:00	21/8/2020	18:10:00	61.9	54.4	59.0						
21/8/2020	18:10:00	21/8/2020	18:15:00	62.5	55.2	59.3						
21/8/2020	18:15:00	21/8/2020	18:20:00	65.5	54.8	60.9						
21/8/2020	18:20:00	21/8/2020	18:25:00	67.1	54.7	62.1						
21/8/2020	18:25:00	21/8/2020	18:30:00	64.9	54.4	60.6						
21/8/2020	18:30:00	21/8/2020	18:35:00	62.8	54.3	59.4	61.7	64.7	54.5	57.5	58.6	61.6
21/8/2020	18:35:00	21/8/2020	18:40:00	62.3	54.3	58.7						
21/8/2020	18:40:00	21/8/2020	18:45:00	60.8	54.4	58.0						
21/8/2020	18:45:00	21/8/2020	18:50:00	60.4	54.1	57.6						
21/8/2020	18:50:00	21/8/2020	18:55:00	61.9	55.4	59.1						
21/8/2020	18:55:00	21/8/2020	19:00:00	61.4	54.1	58.6						

Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
22/8/2020	7:00:00	22/8/2020	7:05:00	57.4	50.9	55.3	57.3	60.3	51.1	54.1	54.9	57.9
22/8/2020	7:05:00	22/8/2020	7:10:00	57.0	51.0	54.4						
22/8/2020	7:10:00	22/8/2020	7:15:00	55.9	50.8	53.9						
22/8/2020	7:15:00	22/8/2020	7:20:00	58.4	51.6	55.4						
22/8/2020	7:20:00	22/8/2020	7:25:00	57.1	51.0	54.8						
22/8/2020	7:25:00	22/8/2020	7:30:00	57.8	51.5	55.2						
22/8/2020	7:30:00	22/8/2020	7:35:00	55.3	50.8	53.4	59.1	62.1	52.9	55.9	56.9	59.9
22/8/2020	7:35:00	22/8/2020	7:40:00	59.1	51.5	56.1						
22/8/2020	7:40:00	22/8/2020	7:45:00	60.3	52.1	57.3						
22/8/2020	7:45:00	22/8/2020	7:50:00	59.6	51.5	56.6						
22/8/2020	7:50:00	22/8/2020	7:55:00	58.5	55.0	57.1						
22/8/2020	7:55:00	22/8/2020	8:00:00	60.3	54.7	59.0						
22/8/2020	8:00:00	22/8/2020	8:05:00	59.7	55.3	58.0	63.1	66.1	54.9	57.9	60.6	63.6
22/8/2020	8:05:00	22/8/2020	8:10:00	60.0	55.4	58.3						
22/8/2020	8:10:00	22/8/2020	8:15:00	61.0	54.7	58.4						
22/8/2020	8:15:00	22/8/2020	8:20:00	67.1	54.9	64.6						
22/8/2020	8:20:00	22/8/2020	8:25:00	59.9	54.0	57.5						
22/8/2020	8:25:00	22/8/2020	8:30:00	64.8	54.8	61.8						
22/8/2020	8:30:00	22/8/2020	8:35:00	58.5	53.9	56.4	60.7	63.7	53.7	56.7	58.2	61.2
22/8/2020	8:35:00	22/8/2020	8:40:00	61.2	54.3	58.6						
22/8/2020	8:40:00	22/8/2020	8:45:00	61.8	54.0	58.6						
22/8/2020	8:45:00	22/8/2020	8:50:00	60.0	53.7	57.4						
22/8/2020	8:50:00	22/8/2020	8:55:00	62.3	53.3	59.7						
22/8/2020	8:55:00	22/8/2020	9:00:00	59.1	53.1	57.8						
22/8/2020	9:00:00	22/8/2020	9:05:00	60.2	53.4	57.8	62.1	65.1	54.3	57.3	58.9	61.9
22/8/2020	9:05:00	22/8/2020	9:10:00	58.8	53.3	56.8						
22/8/2020	9:10:00	22/8/2020	9:15:00	66.5	54.3	62.0						
22/8/2020	9:15:00	22/8/2020	9:20:00	59.0	53.4	57.0						
22/8/2020	9:20:00	22/8/2020	9:25:00	61.1	53.5	58.1						
22/8/2020	9:25:00	22/8/2020	9:30:00	61.5	56.7	59.3						
22/8/2020	9:30:00	22/8/2020	9:35:00	65.3	56.7	62.6	64.7	67.7	56.2	59.2	63.2	66.2
22/8/2020	9:35:00	22/8/2020	9:40:00	61.9	55.8	59.3						
22/8/2020	9:40:00	22/8/2020	9:45:00	69.2	56.9	68.3						
22/8/2020	9:45:00	22/8/2020	9:50:00	63.4	55.7	61.8						
22/8/2020	9:50:00	22/8/2020	9:55:00	61.2	55.9	59.1						
22/8/2020	9:55:00	22/8/2020	10:00:00	60.6	55.8	58.2						
22/8/2020	10:00:00	22/8/2020	10:05:00	63.9	55.4	59.7	63.1	66.1	55.6	58.6	60.1	63.1
22/8/2020	10:05:00	22/8/2020	10:10:00	61.4	56.1	59.1						
22/8/2020	10:10:00	22/8/2020	10:15:00	64.0	55.8	61.2						
22/8/2020	10:15:00	22/8/2020	10:20:00	63.3	55.6	60.3						
22/8/2020	10:20:00	22/8/2020	10:25:00	61.0	54.8	58.2						
22/8/2020	10:25:00	22/8/2020	10:30:00	63.8	56.0	61.3						
22/8/2020	10:30:00	22/8/2020	10:35:00	60.6	55.1	58.0	63.2	66.2	55.4	58.4	61.5	64.5
22/8/2020	10:35:00	22/8/2020	10:40:00	61.2	55.6	59.4						
22/8/2020	10:40:00	22/8/2020	10:45:00	63.8	55.9	61.3						
22/8/2020	10:45:00	22/8/2020	10:50:00	62.0	54.9	59.3						
22/8/2020	10:50:00	22/8/2020	10:55:00	66.9	55.5	66.2						
22/8/2020	10:55:00	22/8/2020	11:00:00	60.3	55.2	57.9						
22/8/2020	11:00:00	22/8/2020	11:05:00	62.3	55.2	59.5	61.7	64.7	54.8	57.8	59.2	62.2
22/8/2020	11:05:00	22/8/2020	11:10:00	60.2	54.7	57.8						
22/8/2020	11:10:00	22/8/2020	11:15:00	63.3	54.8	60.2						
22/8/2020	11:15:00	22/8/2020	11:20:00	62.4	54.7	58.8						
22/8/2020	11:20:00	22/8/2020	11:25:00	60.1	54.4	57.4						
22/8/2020	11:25:00	22/8/2020	11:30:00	61.2	54.7	60.7						
22/8/2020	11:30:00	22/8/2020	11:35:00	59.9	53.9	57.8	61.1	64.1	54.5	57.5	58.3	61.3
22/8/2020	11:35:00	22/8/2020	11:40:00	60.2	54.4	57.6						
22/8/2020	11:40:00	22/8/2020	11:45:00	60.8	53.9	57.9						
22/8/2020	11:45:00	22/8/2020	11:50:00	63.4	55.3	60.1						
22/8/2020	11:50:00	22/8/2020	11:55:00	60.5	54.4	57.8						
22/8/2020	11:55:00	22/8/2020	12:00:00	60.7	54.9	58.3						
22/8/2020	12:00:00	22/8/2020	12:05:00	59.4	53.9	56.7	61.2	64.2	54.6	57.6	58.5	61.5
22/8/2020	12:05:00	22/8/2020	12:10:00	60.1	54.3	57.3						
22/8/2020	12:10:00	22/8/2020	12:15:00	63.7	54.4	60.1						
22/8/2020	12:15:00	22/8/2020	12:20:00	61.1	55.5	58.5						
22/8/2020	12:20:00	22/8/2020	12:25:00	60.9	54.6	59.5						
22/8/2020	12:25:00	22/8/2020	12:30:00	60.6	54.9	58.0						

22/8/2020	12:30:00	22/8/2020	12:35:00	60.5	55.0	58.3	60.6	63.6	54.9	57.9	57.9	60.9
22/8/2020	12:35:00	22/8/2020	12:40:00	59.9	54.8	57.4						
22/8/2020	12:40:00	22/8/2020	12:45:00	59.6	54.3	56.9						
22/8/2020	12:45:00	22/8/2020	12:50:00	61.0	54.2	57.6						
22/8/2020	12:50:00	22/8/2020	12:55:00	60.2	54.0	57.4						
22/8/2020	12:55:00	22/8/2020	13:00:00	61.8	56.5	59.3						
22/8/2020	13:00:00	22/8/2020	13:05:00	63.9	56.1	61.9	62.5	65.5	56.4	59.4	60.1	63.1
22/8/2020	13:05:00	22/8/2020	13:10:00	63.4	56.0	60.6						
22/8/2020	13:10:00	22/8/2020	13:15:00	61.4	56.2	58.9						
22/8/2020	13:15:00	22/8/2020	13:20:00	61.7	57.3	59.8						
22/8/2020	13:20:00	22/8/2020	13:25:00	62.8	56.3	59.8						
22/8/2020	13:25:00	22/8/2020	13:30:00	61.4	56.1	58.6						
22/8/2020	13:30:00	22/8/2020	13:35:00	61.6	56.0	59.6	62.3	65.3	55.8	58.8	59.7	62.7
22/8/2020	13:35:00	22/8/2020	13:40:00	59.7	55.4	57.8						
22/8/2020	13:40:00	22/8/2020	13:45:00	63.7	56.1	60.7						
22/8/2020	13:45:00	22/8/2020	13:50:00	64.3	55.5	61.4						
22/8/2020	13:50:00	22/8/2020	13:55:00	61.2	55.7	58.4						
22/8/2020	13:55:00	22/8/2020	14:00:00	61.4	56.0	59.4						
22/8/2020	14:00:00	22/8/2020	14:05:00	63.5	56.1	60.8	62.9	65.9	56.0	59.0	60.3	63.3
22/8/2020	14:05:00	22/8/2020	14:10:00	64.3	56.2	60.8						
22/8/2020	14:10:00	22/8/2020	14:15:00	62.8	55.7	59.9						
22/8/2020	14:15:00	22/8/2020	14:20:00	63.5	56.0	61.4						
22/8/2020	14:20:00	22/8/2020	14:25:00	61.3	56.1	59.4						
22/8/2020	14:25:00	22/8/2020	14:30:00	61.1	56.1	58.9						
22/8/2020	14:30:00	22/8/2020	14:35:00	62.8	56.7	60.4	62.4	65.4	57.0	60.0	60.1	63.1
22/8/2020	14:35:00	22/8/2020	14:40:00	60.9	55.9	58.5						
22/8/2020	14:40:00	22/8/2020	14:45:00	64.1	57.1	62.3						
22/8/2020	14:45:00	22/8/2020	14:50:00	61.7	57.3	59.3						
22/8/2020	14:50:00	22/8/2020	14:55:00	62.6	57.6	60.0						
22/8/2020	14:55:00	22/8/2020	15:00:00	61.5	57.3	59.1						
22/8/2020	15:00:00	22/8/2020	15:05:00	62.2	57.4	59.4	63.0	66.0	57.7	60.7	60.4	63.4
22/8/2020	15:05:00	22/8/2020	15:10:00	63.5	57.3	60.6						
22/8/2020	15:10:00	22/8/2020	15:15:00	63.1	57.6	60.8						
22/8/2020	15:15:00	22/8/2020	15:20:00	63.3	58.1	60.8						
22/8/2020	15:20:00	22/8/2020	15:25:00	62.8	57.9	60.3						
22/8/2020	15:25:00	22/8/2020	15:30:00	63.1	57.6	60.3						
22/8/2020	15:30:00	22/8/2020	15:35:00	62.1	57.5	59.6	62.3	65.3	57.5	60.5	59.7	62.7
22/8/2020	15:35:00	22/8/2020	15:40:00	63.2	57.8	60.3						
22/8/2020	15:40:00	22/8/2020	15:45:00	61.7	57.5	59.5						
22/8/2020	15:45:00	22/8/2020	15:50:00	62.9	57.4	59.7						
22/8/2020	15:50:00	22/8/2020	15:55:00	61.8	57.3	59.4						
22/8/2020	15:55:00	22/8/2020	16:00:00	62.1	57.6	59.4						
22/8/2020	16:00:00	22/8/2020	16:05:00	64.8	57.8	61.6	63.0	66.0	57.7	60.7	60.3	63.3
22/8/2020	16:05:00	22/8/2020	16:10:00	62.7	57.8	60.1						
22/8/2020	16:10:00	22/8/2020	16:15:00	61.7	57.5	59.5						
22/8/2020	16:15:00	22/8/2020	16:20:00	63.2	57.5	60.3						
22/8/2020	16:20:00	22/8/2020	16:25:00	62.3	57.7	59.7						
22/8/2020	16:25:00	22/8/2020	16:30:00	62.8	57.9	60.3						
22/8/2020	16:30:00	22/8/2020	16:35:00	64.0	58.3	62.3	65.5	68.5	59.2	62.2	62.7	65.7
22/8/2020	16:35:00	22/8/2020	16:40:00	63.0	58.4	60.7						
22/8/2020	16:40:00	22/8/2020	16:45:00	65.4	59.6	62.8						
22/8/2020	16:45:00	22/8/2020	16:50:00	64.3	58.8	62.1						
22/8/2020	16:50:00	22/8/2020	16:55:00	68.5	60.0	64.7						
22/8/2020	16:55:00	22/8/2020	17:00:00	65.5	59.8	62.7						
22/8/2020	17:00:00	22/8/2020	17:05:00	64.5	56.3	60.9	63.6	66.6	56.7	59.7	60.5	63.5
22/8/2020	17:05:00	22/8/2020	17:10:00	64.0	56.5	61.0						
22/8/2020	17:10:00	22/8/2020	17:15:00	63.6	57.2	60.5						
22/8/2020	17:15:00	22/8/2020	17:20:00	62.5	56.7	59.6						
22/8/2020	17:20:00	22/8/2020	17:25:00	62.9	56.5	59.6						
22/8/2020	17:25:00	22/8/2020	17:30:00	63.6	56.8	61.1						
22/8/2020	17:30:00	22/8/2020	17:35:00	63.0	56.8	59.8	64.4	67.4	57.4	60.4	60.9	63.9
22/8/2020	17:35:00	22/8/2020	17:40:00	64.8	57.5	61.0						
22/8/2020	17:40:00	22/8/2020	17:45:00	63.7	57.4	60.9						
22/8/2020	17:45:00	22/8/2020	17:50:00	63.5	57.2	60.2						
22/8/2020	17:50:00	22/8/2020	17:55:00	65.6	57.4	61.3						
22/8/2020	17:55:00	22/8/2020	18:00:00	65.2	57.8	61.8						
22/8/2020	18:00:00	22/8/2020	18:05:00	66.0	58.0	62.1	64.3	67.3	56.3	59.3	60.7	63.7
22/8/2020	18:05:00	22/8/2020	18:10:00	67.3	58.5	63.6						
22/8/2020	18:10:00	22/8/2020	18:15:00	64.8	57.9	61.4						
22/8/2020	18:15:00	22/8/2020	18:20:00	61.9	53.7	58.6						
22/8/2020	18:20:00	22/8/2020	18:25:00	57.4	52.1	55.2						
22/8/2020	18:25:00	22/8/2020	18:30:00	62.2	52.8	58.8						
22/8/2020	18:30:00	22/8/2020	18:35:00	57.6	52.1	55.6	59.4	62.4	51.4	54.4	56.7	59.7
22/8/2020	18:35:00	22/8/2020	18:40:00	59.3	51.6	56.7						
22/8/2020	18:40:00	22/8/2020	18:45:00	60.4	51.5	57.1						
22/8/2020	18:45:00	22/8/2020	18:50:00	57.4	51.1	55.7						
22/8/2020	18:50:00	22/8/2020	18:55:00	61.8	51.4	58.1						
22/8/2020	18:55:00	22/8/2020	19:00:00	58.3	50.7	56.5						

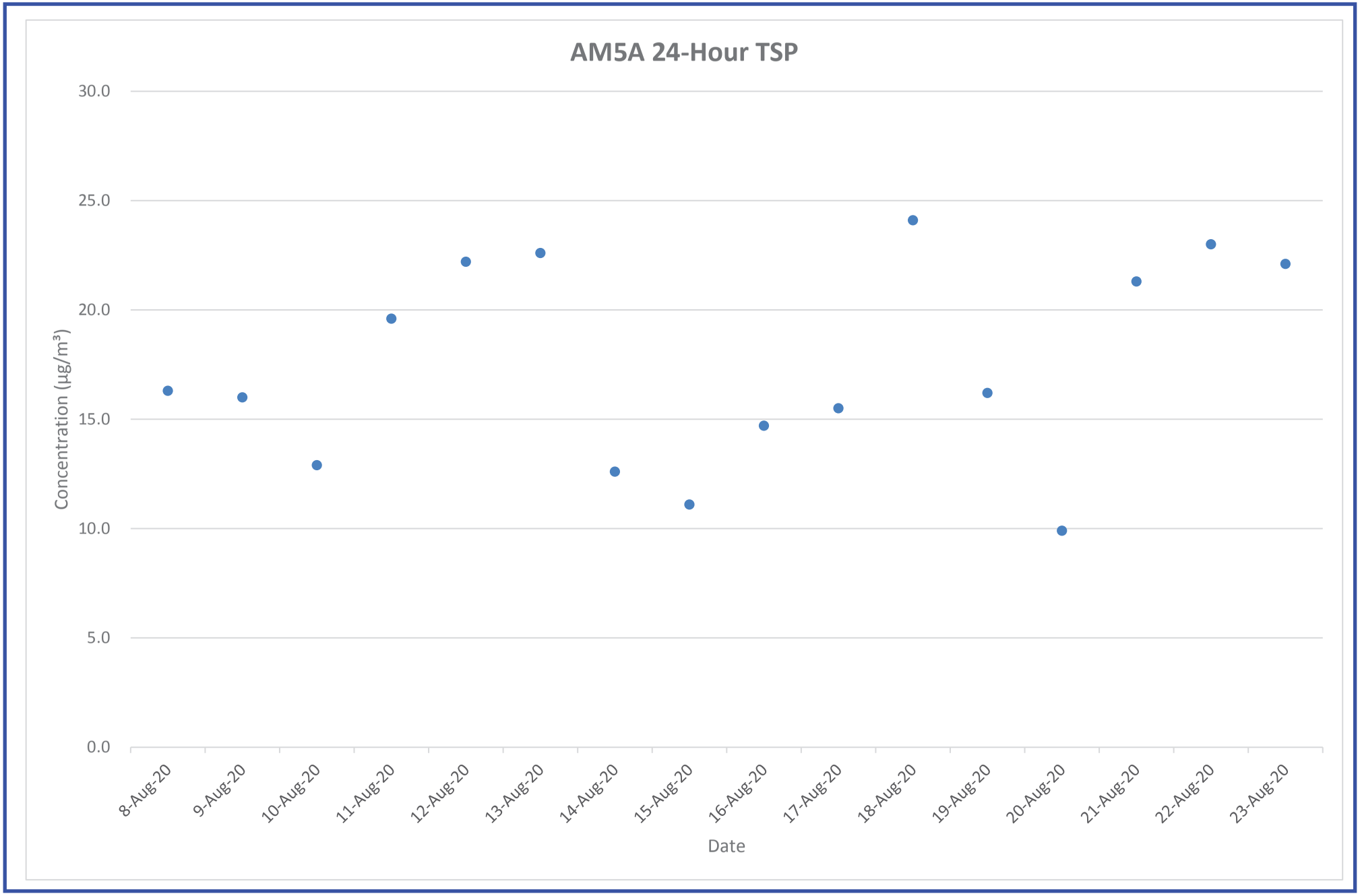
Contract Title.	:	Foundation and Excavation and Lateral Support Works for Integrated Basement and Underground Road in Zones 2A at West Kowloon Cultural District
Monitoring Location	:	NM5A
Description of the Location	:	Pedestrian road (G/F) outside West Kowloon Station
Sound Level Method (Model and Serial No.)	:	AWA5661 301134

Date	Time start	Date	Time end	L10	L90	Leq	L10 (30 min)	L10 (30 min) + 3 dB(A)	L90 (30 min)	L90 (30 min) + 3 dB(A)	Leq (30min)	Leq (30min) + 3 dB(A)
23/8/2020	7:00:00	22/8/2020	7:05:00	57.1	50.5	55.6	58.7	61.7	53.0	56.0	56.8	59.8
23/8/2020	7:05:00	22/8/2020	7:10:00	59.6	54.1	57.3						
23/8/2020	7:10:00	22/8/2020	7:15:00	60.1	55.3	58.4						
23/8/2020	7:15:00	22/8/2020	7:20:00	57.4	50.5	55.3						
23/8/2020	7:20:00	22/8/2020	7:25:00	57.8	50.8	55.9						
23/8/2020	7:25:00	22/8/2020	7:30:00	59.4	54.2	57.3						
23/8/2020	7:30:00	22/8/2020	7:35:00	57.1	50.4	55.2	58.6	61.6	52.7	55.7	56.4	59.4
23/8/2020	7:35:00	22/8/2020	7:40:00	57.4	50.5	55.6						
23/8/2020	7:40:00	22/8/2020	7:45:00	60.1	55.5	58.4						
23/8/2020	7:45:00	22/8/2020	7:50:00	59.3	54.3	57.1						
23/8/2020	7:50:00	22/8/2020	7:55:00	57.3	51.1	54.3						
23/8/2020	7:55:00	22/8/2020	8:00:00	59.6	51.2	56.3						
23/8/2020	8:00:00	22/8/2020	8:05:00	57.2	50.3	55.1	59.9	62.9	53.1	56.1	57.5	60.5
23/8/2020	8:05:00	22/8/2020	8:10:00	59.5	54.5	57.6						
23/8/2020	8:10:00	22/8/2020	8:15:00	59.4	51.5	56.3						
23/8/2020	8:15:00	22/8/2020	8:20:00	57.6	50.7	55.8						
23/8/2020	8:20:00	22/8/2020	8:25:00	63.2	54.5	60.2						
23/8/2020	8:25:00	22/8/2020	8:30:00	59.7	54.5	57.8						
23/8/2020	8:30:00	22/8/2020	8:35:00	59.5	51.5	56.6	61.4	64.4	54.0	57.0	58.3	61.3
23/8/2020	8:35:00	22/8/2020	8:40:00	60.4	55.5	58.5						
23/8/2020	8:40:00	22/8/2020	8:45:00	59.3	54.3	57.1						
23/8/2020	8:45:00	22/8/2020	8:50:00	63.6	54.3	60.1						
23/8/2020	8:50:00	22/8/2020	8:55:00	63.5	53.1	59.2						
23/8/2020	8:55:00	22/8/2020	9:00:00	59.2	54.1	57.3						
23/8/2020	9:00:00	22/8/2020	9:05:00	59.6	51.5	56.6	61.3	64.3	53.9	56.9	58.6	61.6
23/8/2020	9:05:00	22/8/2020	9:10:00	63.3	54.2	60.1						
23/8/2020	9:10:00	22/8/2020	9:15:00	63.5	54.5	60.9						
23/8/2020	9:15:00	22/8/2020	9:20:00	60.1	55.5	58.4						
23/8/2020	9:20:00	22/8/2020	9:25:00	59.4	54.5	57.0						
23/8/2020	9:25:00	22/8/2020	9:30:00	59.5	51.5	56.3						
23/8/2020	9:30:00	22/8/2020	9:35:00	60.3	55.3	58.1	62.1	65.1	55.1	58.1	59.7	62.7
23/8/2020	9:35:00	22/8/2020	9:40:00	59.2	54.3	57.1						
23/8/2020	9:40:00	22/8/2020	9:45:00	63.3	54.1	60.3						
23/8/2020	9:45:00	22/8/2020	9:50:00	64.1	56.6	62.1						
23/8/2020	9:50:00	22/8/2020	9:55:00	63.2	54.3	60.2						
23/8/2020	9:55:00	22/8/2020	10:00:00	60.5	55.4	58.3						
23/8/2020	10:00:00	22/8/2020	10:05:00	63.5	54.5	60.6	59.4	62.4	51.8	54.8	56.8	59.8
23/8/2020	10:05:00	22/8/2020	10:10:00	57.1	51.1	54.3						
23/8/2020	10:10:00	22/8/2020	10:15:00	57.4	50.7	55.8						
23/8/2020	10:15:00	22/8/2020	10:20:00	57.3	51.5	54.9						
23/8/2020	10:20:00	22/8/2020	10:25:00	57.2	50.5	55.3						
23/8/2020	10:25:00	22/8/2020	10:30:00	59.6	51.3	56.1						
23/8/2020	10:30:00	22/8/2020	10:35:00	63.4	54.3	60.6	62.8	65.8	54.8	57.8	60.0	63.0
23/8/2020	10:35:00	22/8/2020	10:40:00	60.3	55.3	58.4						
23/8/2020	10:40:00	22/8/2020	10:45:00	64.5	55.5	61.1						
23/8/2020	10:45:00	22/8/2020	10:50:00	63.5	54.5	60.6						
23/8/2020	10:50:00	22/8/2020	10:55:00	63.7	54.7	60.8						
23/8/2020	10:55:00	22/8/2020	11:00:00	59.4	54.5	57.3						
23/8/2020	11:00:00	22/8/2020	11:05:00	60.4	55.2	58.2	60.4	63.4	55.0	58.0	58.1	61.1
23/8/2020	11:05:00	22/8/2020	11:10:00	59.3	54.3	57.1						
23/8/2020	11:10:00	22/8/2020	11:15:00	60.5	55.4	58.5						
23/8/2020	11:15:00	22/8/2020	11:20:00	62.1	55.3	59.1						
23/8/2020	11:20:00	22/8/2020	11:25:00	59.3	54.2	57.3						
23/8/2020	11:25:00	22/8/2020	11:30:00	60.4	55.6	58.3						
23/8/2020	11:30:00	22/8/2020	11:35:00	60.3	55.6	58.2	60.5	63.5	54.3	57.3	58.1	61.1
23/8/2020	11:35:00	22/8/2020	11:40:00	59.2	54.3	57.1						
23/8/2020	11:40:00	22/8/2020	11:45:00	59.6	51.2	56.3						
23/8/2020	11:45:00	22/8/2020	11:50:00	63.4	54.5	60.7						
23/8/2020	11:50:00	22/8/2020	11:55:00	60.5	55.4	58.2						
23/8/2020	11:55:00	22/8/2020	12:00:00	58.3	53.2	56.1						
23/8/2020	12:00:00	22/8/2020	12:05:00	59.2	54.3	57.1	60.1	63.1	54.8	57.8	57.8	60.8
23/8/2020	12:05:00	22/8/2020	12:10:00	58.3	53.4	56.3						
23/8/2020	12:10:00	22/8/2020	12:15:00	60.3	55.4	58.2						
23/8/2020	12:15:00	22/8/2020	12:20:00	62.1	55.5	59.1						
23/8/2020	12:20:00	22/8/2020	12:25:00	59.5	54.2	57.2						
23/8/2020	12:25:00	22/8/2020	12:30:00	60.1	55.6	58.2						

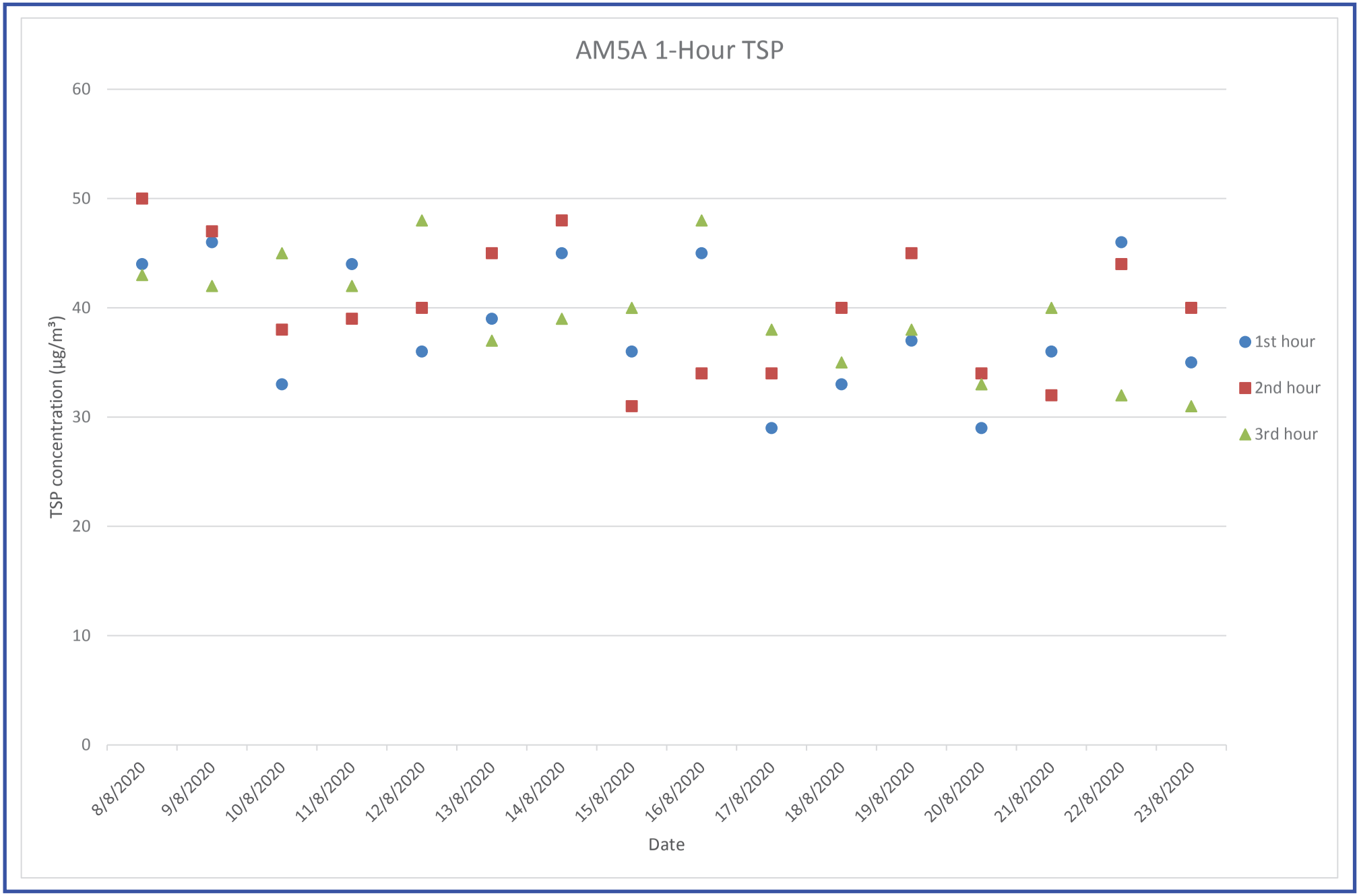
23/8/2020	12:30:00	22/8/2020	12:35:00	58.1	53.2	56.3	59.0	62.0	54.1	57.1	57.0	60.0
23/8/2020	12:35:00	22/8/2020	12:40:00	59.2	54.5	57.4						
23/8/2020	12:40:00	22/8/2020	12:45:00	59.3	54.1	57.1						
23/8/2020	12:45:00	22/8/2020	12:50:00	58.2	53.5	56.0						
23/8/2020	12:50:00	22/8/2020	12:55:00	60.5	55.4	58.2						
23/8/2020	12:55:00	22/8/2020	13:00:00	58.4	53.4	56.6						
23/8/2020	13:00:00	22/8/2020	13:05:00	59.4	54.2	57.2	59.9	62.9	53.7	56.7	57.4	60.4
23/8/2020	13:05:00	22/8/2020	13:10:00	58.4	53.1	56.6						
23/8/2020	13:10:00	22/8/2020	13:15:00	58.3	53.5	56.4						
23/8/2020	13:15:00	22/8/2020	13:20:00	58.6	53.2	56.2						
23/8/2020	13:20:00	22/8/2020	13:25:00	58.2	53.3	56.1						
23/8/2020	13:25:00	22/8/2020	13:30:00	63.4	54.5	60.3						
23/8/2020	13:30:00	22/8/2020	13:35:00	67.5	54.3	64.2	69.3	72.3	57.9	60.9	65.3	68.3
23/8/2020	13:35:00	22/8/2020	13:40:00	71.5	60.3	66.3						
23/8/2020	13:40:00	22/8/2020	13:45:00	67.3	54.3	64.1						
23/8/2020	13:45:00	22/8/2020	13:50:00	68.4	58.5	65.8						
23/8/2020	13:50:00	22/8/2020	13:55:00	67.4	54.5	64.3						
23/8/2020	13:55:00	22/8/2020	14:00:00	71.3	60.4	66.3						
23/8/2020	14:00:00	22/8/2020	14:05:00	62.3	53.5	59.5	66.8	69.8	56.0	59.0	63.1	66.1
23/8/2020	14:05:00	22/8/2020	14:10:00	67.3	54.0	64.1						
23/8/2020	14:10:00	22/8/2020	14:15:00	71.5	60.4	66.6						
23/8/2020	14:15:00	22/8/2020	14:20:00	67.1	54.3	64.2						
23/8/2020	14:20:00	22/8/2020	14:25:00	60.4	55.4	58.3						
23/8/2020	14:25:00	22/8/2020	14:30:00	62.1	53.5	59.3						
23/8/2020	14:30:00	22/8/2020	14:35:00	63.2	54.2	60.1	64.2	67.2	54.2	57.2	61.1	64.1
23/8/2020	14:35:00	22/8/2020	14:40:00	63.8	54.6	60.3						
23/8/2020	14:40:00	22/8/2020	14:45:00	63.1	54.3	60.2						
23/8/2020	14:45:00	22/8/2020	14:50:00	67.3	54.2	64.3						
23/8/2020	14:50:00	22/8/2020	14:55:00	63.6	54.2	60.1						
23/8/2020	14:55:00	22/8/2020	15:00:00	62.1	53.5	59.3						
23/8/2020	15:00:00	22/8/2020	15:05:00	63.1	54.3	60.0	65.6	68.6	54.0	57.0	62.3	65.3
23/8/2020	15:05:00	22/8/2020	15:10:00	67.4	54.3	64.3						
23/8/2020	15:10:00	22/8/2020	15:15:00	65.3	53.5	61.8						
23/8/2020	15:15:00	22/8/2020	15:20:00	67.2	54.1	64.3						
23/8/2020	15:20:00	22/8/2020	15:25:00	65.3	53.5	61.2						
23/8/2020	15:25:00	22/8/2020	15:30:00	63.2	54.2	60.3						
23/8/2020	15:30:00	22/8/2020	15:35:00	62.5	53.5	59.6	61.4	64.4	53.9	56.9	58.5	61.5
23/8/2020	15:35:00	22/8/2020	15:40:00	58.4	51.2	54.5						
23/8/2020	15:40:00	22/8/2020	15:45:00	59.6	54.3	56.3						
23/8/2020	15:45:00	22/8/2020	15:50:00	60.2	55.3	58.2						
23/8/2020	15:50:00	22/8/2020	15:55:00	63.3	54.3	60.1						
23/8/2020	15:55:00	22/8/2020	16:00:00	62.2	53.5	59.6						
23/8/2020	16:00:00	22/8/2020	16:05:00	60.3	55.4	58.3	61.5	64.5	55.1	58.1	59.1	62.1
23/8/2020	16:05:00	22/8/2020	16:10:00	60.4	55.5	58.4						
23/8/2020	16:10:00	22/8/2020	16:15:00	63.2	54.5	60.3						
23/8/2020	16:15:00	22/8/2020	16:20:00	63.3	54.3	60.1						
23/8/2020	16:20:00	22/8/2020	16:25:00	60.2	55.3	58.1						
23/8/2020	16:25:00	22/8/2020	16:30:00	60.5	55.4	58.6						
23/8/2020	16:30:00	22/8/2020	16:35:00	58.3	53.3	56.3	58.6	61.6	52.4	55.4	56.3	59.3
23/8/2020	16:35:00	22/8/2020	16:40:00	57.3	50.2	55.3						
23/8/2020	16:40:00	22/8/2020	16:45:00	57.4	50.6	55.4						
23/8/2020	16:45:00	22/8/2020	16:50:00	58.8	53.5	56.9						
23/8/2020	16:50:00	22/8/2020	16:55:00	58.9	53.5	56.6						
23/8/2020	16:55:00	22/8/2020	17:00:00	60.3	52.3	57.1						
23/8/2020	17:00:00	22/8/2020	17:05:00	60.4	55.5	58.2	64.4	67.4	56.9	59.9	61.0	64.0
23/8/2020	17:05:00	22/8/2020	17:10:00	63.5	54.3	60.7						
23/8/2020	17:10:00	22/8/2020	17:15:00	66.6	59.3	62.1						
23/8/2020	17:15:00	22/8/2020	17:20:00	63.4	54.1	60.3						
23/8/2020	17:20:00	22/8/2020	17:25:00	63.3	54.2	60.2						
23/8/2020	17:25:00	22/8/2020	17:30:00	66.2	59.8	62.8						
23/8/2020	17:30:00	22/8/2020	17:35:00	57.2	50.4	55.5	63.1	66.1	55.0	58.0	59.9	62.9
23/8/2020	17:35:00	22/8/2020	17:40:00	57.1	50.5	55.6						
23/8/2020	17:40:00	22/8/2020	17:45:00	63.2	54.2	60.3						
23/8/2020	17:45:00	22/8/2020	17:50:00	63.0	54.3	60.1						
23/8/2020	17:50:00	22/8/2020	17:55:00	57.4	50.3	55.8						
23/8/2020	17:55:00	22/8/2020	18:00:00	68.2	60.1	64.3						
23/8/2020	18:00:00	22/8/2020	18:05:00	63.1	54.5	60.2	65.6	68.6	57.9	60.9	62.1	65.1
23/8/2020	18:05:00	22/8/2020	18:10:00	66.1	59.3	62.4						
23/8/2020	18:10:00	22/8/2020	18:15:00	66.3	59.6	62.8						
23/8/2020	18:15:00	22/8/2020	18:20:00	63.2	54.3	60.1						
23/8/2020	18:20:00	22/8/2020	18:25:00	63.6	54.5	60.9						
23/8/2020	18:25:00	22/8/2020	18:30:00	68.5	60.3	64.3						
23/8/2020	18:30:00	22/8/2020	18:35:00	63.1	54.3	60.3	60.2	63.2	53.1	56.1	57.6	60.6
23/8/2020	18:35:00	22/8/2020	18:40:00	60.5	55.4	58.6						
23/8/2020	18:40:00	22/8/2020	18:45:00	60.5	52.3	57.1						
23/8/2020	18:45:00	22/8/2020	18:50:00	57.5	50.2	55.3						
23/8/2020	18:50:00	22/8/2020	18:55:00	59.3	53.2	56.6						
23/8/2020	18:55:00	22/8/2020	19:00:00	57.1	50.6	55.3						

Appendix 6 GRAPHOCAL PLOTS OF BASELINE MONITORING DATA

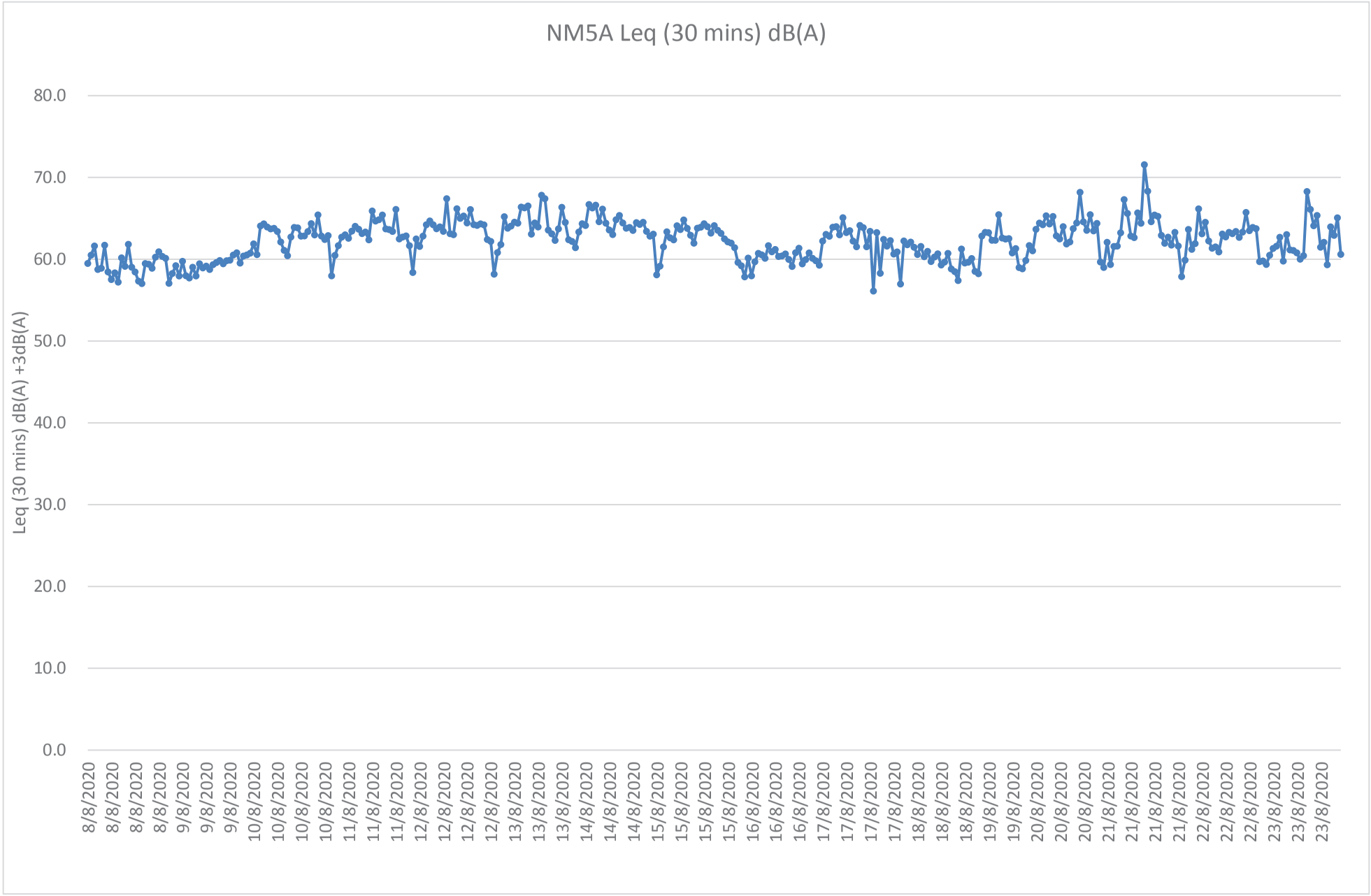
APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com



Note: Monitoring data on 18 and 19 August 2020 are provided for reference only



Note: Monitoring data on 18 and 19 August 2020 are provided for reference only



Note: Monitoring data on 18 and 19 August 2020 are provided for reference only

Appendix 7 BASELINE AIR AND NOISE MONITOIRNG PHOTO

APEX Testing & Certification Ltd
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AM5A

NM5A

Appendix 8 LABORATORY FOR ANALYSIS OF DUST SAMPLES HANDLING AND AIR QUALITY AND NOISE MONITORING

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

Hong Kong Accreditation Service (HKAS) 香港認可處
HOKLAS Accredited Organisations and Scope of Accreditation
認可機構名稱及認可範圍

HOKLAS Reg. No. 註冊號碼	Name of Accredited Laboratory	認可實驗所名稱	Certificate 認可證書
104	A.E.S. Destructive and Non-Destructive Testing Limited	安捷材料試驗有限公司	下載
286	AA Lab Limited		下載
173	Acoustic Testing Services Limited	聲學測試服務有限公司	下載
122	Acoustics and Air Testing Laboratory Co. Ltd.	聲學及空氣測試實驗室有限公司	下載
241	Acumen Laboratory and Testing Limited	浩科檢測中心有限公司	下載
214	Advance Laboratory and Testing Services Limited	捷達檢測有限公司	下載
271	Advanced - Technical Testing Services Co., (H.K.) Ltd.	卓聯檢測有限公司	下載
288	Alliance Testing (HK) Co., Limited		下載
066	ALS Technichem (HK) Pty Limited		下載
046	Anderson Asphalt Ltd. - Tap Shek Kok Laboratory	安達臣瀝青有限公司 - 踏石角實驗所	下載
160	API Lab Testing Limited	法亞太產品測試有限公司	下載
267	Appleone Calibration Laboratory Limited	蘋果濕度校正實驗室有限公司	下載
237	AQuality TestConsult Limited	東恒測試顧問有限公司	下載
275	Ariken Biotech Japan Testing Laboratory Co., Ltd.,	有研生物科技日本化驗所有限公司	下載
290	ASB Biodiesel (Hong Kong) Limited - Laboratory Department	ASB 生物柴油(香港)有限公司 - 實驗室部門	下載
151	Asian Gemmological Institute and Laboratory Limited	亞洲寶石學院及鑑定所有限公司	下載
283	Aspec (HK) Limited - Aspec Testing	宏基環保(香港)有限公司 - 宏基檢定	下載
228	ASTAR NDT CONSULTANTS LTD	華陞檢測及顧問有限公司	下載
140	Building Diagnostic Consultants Limited	香港工程質量檢測中心有限公司	下載
058	Bureau Veritas Hong Kong Limited - Kowloon Bay Office	立德國際公証香港有限公司 - 九龍灣辦事處	下載
053	Bureau Veritas Hong Kong Limited - Kwai Chung Office	立德國際公證香港有限公司 - 葵涌辦事處	下載
146	C & K Instrument (HK) Limited - Calibration Services Centre	超群科學儀器有限公司 – 校正服務中心	下載
187	CAC (Hong Kong) Gems Laboratory Ltd.	中藝(香港)寶石鑑定所有限公司	下載
835	Canossa Hospital (Caritas) Management Company Limited - Clinical Laboratory		下載
032	Castco Testing Centre Ltd.	佳力高試驗中心有限公司	下載

Mutual Recognition Arrangements (MRA) / Multilateral Recognition Arrangements (MLA)

- HOKLAS - Mutual Recognition Arrangements (MRA)
- HKCAS - Multilateral Recognition Arrangements (MLA)
- HKIAS - Mutual Recognition Arrangement (MRA)

HOKLAS - Mutual Recognition Arrangements (MRA)

Every effort is made to promote acceptance of test data from accredited laboratories, both internationally and locally. HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for testing, calibration, medical testing, Proficiency Testing Providers (PTP) and Reference Material Producers (RMP). Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

Visitors checking the names, logos and accreditation symbols shown on an endorsed certificate or report should note that some of our MRA partners may have their names, logos or accreditation symbols changed recently and test reports or certificates endorsed by displaying their old accreditation symbols may still be valid during the change-over period. For details, please visit their websites or contact them directly.

- Mutual Recognition Arrangement (MRA) Partners for HOKLAS

HKAS MRA partners will recognise HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

HKCAS - Multilateral Recognition Arrangements

HKAS has been a signatory of Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for Quality Management System (QMS), Environmental Management System (EMS), Food Safety Management System (FSMS), Energy Management System (EnMS), Occupational Health and Safety Management System (OHSMS) certifications, product certifications, and Greenhouse Gas (GHG) validation and verification.

HKAS has also been a signatory of the International Accreditation Forum Multilateral Recognition Arrangement (IAF MLA) for Quality Management System (QMS), Environmental Management System (EMS), Food Safety Management System (FSMS), Energy Management System (EnMS) certifications, product certifications, and Greenhouse Gas (GHG) validation and verification.

Click here to view the up-to-date signatories of IAF and here to access the up-to-date signatories of APAC.

- Mutual / Multilateral Recognition Arrangements (MRA / MLA) Partners for HKCAS

HKIAS - Mutual Recognition Arrangements (MRA)

HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for inspection. Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

HKAS MRA partners will recognise HKIAS endorsed inspection reports or certificates having the same technical validity as reports or certificates endorsed by their respective schemes.

- Mutual Recognition Arrangement (MRA) Partners for HKIAS

FAQ / Information

Mutual Recognition Arrangements (MRA) / Multilateral Recognition Arrangements (MLA)

Mutual Recognition Arrangement (MRA) Partners for HOKLAS

Every effort is made to promote acceptance of test data from accredited laboratories, both internationally and locally. HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for testing, calibration, medical testing, Proficiency Testing Providers (PTP) and Reference Material Producers (RMP). Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

Visitors checking the names, logos and accreditation symbols shown on an endorsed certificate or report should note that some of our MRA partners may have their names, logos or accreditation symbols changed recently and test reports or certificates endorsed by displaying their old accreditation symbols may still be valid during the change-over period. For details, please visit their websites or contact them directly.

» Mutual Recognition Arrangement (MRA) Partners for HOKLAS

HKAS MRA partners will recognise HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

Multilateral Recognition Arrangements (MLA) for HKCAS

Mutual Recognition Arrangement (MRA) Partners for HKIAS

back

Economy 經濟體系	Logo 標誌	Name of Partner 夥伴名稱	URL 網址	Calibration 校正	Testing 測試	ISO 15189 (Medical Testing 醫務化驗)	RMP	PTP
United Kingdom of Great Britain and Northern Ireland 大不列顛及北愛爾蘭聯合王國		United Kingdom Accreditation Service (UKAS)	www.ukas.com	•	•	•		•
United States of America 美國		Perry Johnson Laboratory Accreditation, Inc. (PJLA)	www.pjlabs.com	•	•	•	•	
United States of America 美國		International Accreditation Service Inc. (IAS)	www.iasonline.org	•	•			
United States of America 美國		ANSI-ASQ National Accreditation Board (ANAB)	www.anab.org	•	•	•	•	•
United States of America 美國		American Association for Laboratory Accreditation (A2LA)	www.a2la.org	•	•	•	•	•
United States of America 美國		AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC)	www.aihaaccreditedlabs.org		•			
United States of America 美國		National Voluntary Laboratory Accreditation Program (NVLAP)	www.nist.gov/nvlap	•	•			
Uruguay 烏拉圭		Organismo Uruguayo De Acreditación (OUA)	www.organismouruguayodeacreditacion.org	•	•			
Viet Nam 越南		Bureau of Accreditation (BoA)	www.boa.gov.vn	•	•	•		
Viet Nam 越南		Accreditation Office for Standards Conformity Assessment Capacity (AOSC)	http://www.aosc.vn/	•	•			

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RMP: Reference Material Producer 標準物質生產者 ; PTP: Proficiency Testing Provider 能力驗證提供者

INTERNATIONAL ACCREDITATION SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

AQUALITY TESTCONSULT LIMITED

11A&B, KAI FONG GARDEN, PING CHE ROAD
FANLING, HONG KONG

Calibration Laboratory CL-207

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with the ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

This certificate is valid up to December 1, 2020.

(See laboratory's scope of accreditation for fields of calibration and accredited calibration.)

This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.

IAS INTERNATIONAL ACCREDITATION SERVICE®

ilac-MRA

Raj Nathan
President

18-15965

INTERNATIONAL ACCREDITATION SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

AQUALITY TESTCONSULT LIMITED

11A&B, KAI FONG GARDEN, PING CHE ROAD
FANLING, HONG KONG

Testing Laboratory TL-800

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories,* and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

This certificate is valid up to August 1, 2020.

This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.

INTERNATIONAL ACCREDITATION SERVICE®

ilac-MRA

Raj Nathan
President

18-15065

Appendix 9 TROPICAL CYCLONE WARNING SIGNALS ON 18 AUGUST AND 19 AUGUST 2020

APEX Testing & Certification Ltd
上峰檢測認證有限公司
BEAM Plus ● LEED ● Environmental Consultant +852 3973 3585 info@apextestcert.com

香港天文台
HONG KONG OBSERVATORY

Tropical Cyclone Warning Signals

Searching period : [202008 - 202008]
Signal number : [1.or.higher]
Total number of records : [8]

Intensity	Name	Signal	Start Time		End Time		Duration hh mm
			hh mm	dd/mon/yyyy	hh mm	dd/mon/yyyy	
Tropical Depression	SINLAKU	3	20:40	31/Jul/2020	21:10	01/Aug/2020	24 30
Tropical Depression	SINLAKU	1	21:10	01/Aug/2020	23:15	01/Aug/2020	02 05
Typhoon	HIGOS	1	03:40	18/Aug/2020	14:20	18/Aug/2020	10 40
Typhoon	HIGOS	3	14:20	18/Aug/2020	22:40	18/Aug/2020	08 20
Typhoon	HIGOS	8 NE	22:40	18/Aug/2020	01:30	19/Aug/2020	02 50
Typhoon	HIGOS	9	01:30	19/Aug/2020	07:40	19/Aug/2020	06 10
Typhoon	HIGOS	8 SE	07:40	19/Aug/2020	11:10	19/Aug/2020	03 30
Typhoon	HIGOS	3	11:10	19/Aug/2020	13:20	19/Aug/2020	02 10

Signals No. 5, 6, 7 and 8 were used to signify gales from the NW, SW, NE and SE respectively between 1931 and 1972. To avoid misunderstanding by the public, the Signals No. 5 to 8 were replaced by the Signals No. 8 NW, 8 SW, 8 NE and 8 SE in 1 January 1973. The Signals No. 8 NW, 8 SW, 8 NE and 8 SE between 1946 and 1972 as shown in this database were originally the Signals No. 5 to 8 used at the time.

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