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Report No.: 0001/18/ED/0090

MONTHLY EM&A REPORT

June 2018

Client Civil Engineering and Development

Department, HKSAR

Contract No. KLN/2015/07

Contract Name: Environmental Monitoring Works for

Contract KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway

Report No. 0405/15/ED/1071A

EP-337/2009 New Distributor Roads Serving the Planned Kai Tak

Development Area

EP-339/2009/A Decommissioning of the Remaining Parts (Ex-GFS

Building, Radar Station and Hong Kong Aviation Club)

of the former Kai Tak Airport

EP-451/2013 Trunk Road T2

Prepared by Janet W. T. Yu

Alfred Y. S. Lam Reviewed by

Certified by

Colin K. L. Yung

Environmental Team Leader MateriaLab Consultants Limited



Ref.: CEDKTDS3EM00 0 0308L.18

12 July 2018

By Post and Email

Hyder-Meinhardt Joint Venture 20/F., AXA Tower, Landmark East, 100 How Ming Street, Kwun Tong, Kowloon, Hong Kong

Attention: Mr. Wong W. K., Chris

Dear Mr. Wong,

Re: Contract No. KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway Monthly EM&A Report for June 2018

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for June 2018 (Report No. 0405/15/ED/1071A) we received by e-mail on 11 July 2018.

Please be informed that we have no adverse comment on the captioned report. We hereby verify the captioned submission according to Condition 3.3 of EP-337/2009, Condition 3.3 of EP-339/2009/A and Condition 3.4 of EP-451/2013.

Thank you for your attention. Please do not hesitate to contact us should you have any queries.

Yours sincerely, For and on behalf of Ramboll Hong Kong Limited

F. C. Tsang

Independent Environmental Checker

C.C.

CEDD Attn.: Ms. Amy Chu

Fax: 2369 4980

MateriaLab Attn.: Mr. Colin K. L. Yung

Auth Doorf

Fax: 3565 4160

CRBC Attn.: Mr. Arnold Chan

Fax: 2283 1689

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TABLE OF CONTENTS

EXE	CUTIVE SUMMARY	I
1.	INTRODUCTION	1
2.	AIR QUALITY	5
3.	NOISE	10
4.	LANDSCAPE AND VISUAL	14
5.	WASTE MANAGEMENT	15
6.	SITE INSPECTION	16
7.	ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE	17
8.	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	18
9.	FUTURE KEY ISSUES	19
10.	CONCLUSIONS	20

FIGURES

Figure 1 Project General Layout

Figure 2 Air and Noise Monitoring Locations

LIST OF APPENDICES

Appendix A	Construction Programme
Appendix B	Project Organization Chart
Appendix C	Action and Limit Levels for Air Quality and Noise
Appendix D	Calibration Certificates of Monitoring Equipment
Appendix E	Environmental Monitoring Schedules
Appendix F	Air Quality Monitoring Data
Appendix G	Noise Monitoring Data
Appendix H	Event Action Plans
Appendix I	Waste Flow Table
Appendix J	Environmental Mitigation Implementation Schedule (EMIS)
Appendix K	Weather and Meteorological Conditions during Reporting Month
Appendix L	Cumulative statistics on Environmental Complaints, Notifications of Summons
	and Successful Prosecutions
Appendix M	Summary of Site Audit in the Reporting Month
Appendix N	Outstanding Issues and Deficiencies

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EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed MateriaLab Consultants Limited (MCL) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 June 2018 and 30 June 2018. As informed by the Contractor, major activities in the reporting month were:
 - Excavation and laying of drainage pipe and manhole;
 - Seawall modification works:
 - Construction of tunnel box structure:
 - D-wall construction works:
 - Pumping test; and
 - Excavation and ELS construction.

Breaches of the Action and Limit Levels

iii. No Action / Limit Level exceedance was recorded for 24-hr TSP and construction noise at KTD1a, KTD2a and KER1b in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

iv. No environmental complaint, notification of summons and successful prosecution were received in the reporting month.

Reporting Changes

v. There was no reporting change in the reporting month.

Future Key Issues

vi. The key issues to be considered in the coming reporting month include:

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.

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INTRODUCTION 1.

1.1 **Background**

- The Kai Tak Development is located in the south-eastern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- Contract No. KL/2014/03 is the works package to construct an approximately 420m long supporting underground structure (SUS) underneath Shing Cheong Road and Cheung Yip Street. The EM&A programme under this Contract is governed by three EPs (EP-337/2009, EP-339/2009/A and EP-451/2013) and two EM&A Manuals (AEIAR-130/2009 and AEIAR-174/2013). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:

EP-451/2013 - Trunk Road T2

Construction of approximately 420m long supporting underground structure (SUS) (i) including diaphragm walls, barrettes, piled foundation, top and bottom slabs, end wall and adits underneath Shing Cheong Road and Cheung Yip Street;

EP-337/2009 - New Distributor Roads Serving the Planned Kai Tak Development

- Widening and re-alignment of Cheung Yip Street of approximately 330m long and associated footpaths;
- Demolition, reconstruction and widening of Shing Cheong Road of approximately 410m (iii) long and associated footpaths;
- Construction of drainage outfall and modification of existing seawall; (iv)
- Construction of ancillary works including surface drainage, sewerage, water, fire (v) fighting, street lighting, street furniture, road marking, road signage, utilities and services, irrigation and landscape works.

EP-339/2009/A - Decommissioning of the Remaining Parts (Ex-GFS Building, Radar Station and Hong Kong Aviation Club) of the former Kai Tak Airport

(vi) Demolition of RADAR Tower and guard house;

Other works not covered by any EP

- Construction of two subways between Phase II of New Acute Hospital (Site A) and Hong Kong Children's Hospital (Site C), and between Phase I of New Acute Hospital (Site B) and Site C:
- (viii) Construction of District Cooling System (DCS) along Cheung Yip Street and Shing Cheong Road
- 1.1.3 The location and boundary of the site is shown in **Figure 1**.
- This Monthly EM&A report is required under EP-337/2009 Condition 3.3, EP-339/2009/A Condition 3.3 and EP-451/2013 Condition 3.4. It is to report the results and findings of the EM&A programme required in the EM&A Manuals.
- This is the twenty eighth monthly EM&A Report which summaries the impact monitoring results and audit findings for the Project within the period between 1 June 2018 and 30 June 2018.

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1.2 **Project Organization**

- 1.2.1 The project proponent was the Civil Engineering and Development Department, HKSAR (CEDD). Hyder Meinhardt Joint Venture (HMJV) was commissioned by CEDD as the Engineer for the Project. Ramboll Hong Kong Limited was commissioned as the Independent Environmental Checker (IEC). China Road and Bridge Corporation (Hong Kong) (CRBC) was appointed as the main contractor for the construction works under the contract KL/2014/03. MateriaLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by CEDD to implement the EM&A programme for the Project.
- The organization structure is shown in **Appendix B**. The key personnel contact names and 1.2.2 numbers for the Project are summarized in **Table 1.1**.

Table 1 1 Contact Information of Key Personnel

Table 1.1 Contact information of Key Fersonner				
Party	Position	Name	Telephone	Fax
Project Proponent (CEDD)	Co-ordinator	Ms. Amy Chu	3106 3172	2369 4980
Engineer's Representative (HMJV)	Chief Resident Engineer	Mr. W. K., Chris Wong	3742 3803	3742 3899
IEC (Ramboll Hong Kong Limited)	Independent Environmental Checker	Mr. F. C. Tsang	3465 2851	3465 2899
Main Control (CDDC)	Site Agent	Mr. Chan See Wai, Arnold	9380 4110	2283 1689
Main Contractor (CRBC)	Environmental Officer	Mr. Calvin So	9724 6254	2283 1689
ET (MCL)	Environmental Team Leader	Mr. Colin Yung	3565 4114	3565 4160

1.3 **Construction Programme and Activities**

- 1.3.1 The construction of the Project commenced in February 2016 and is expected to complete in 2020. The construction programme is shown in Appendix A.
- 1.3.2 A summary of the major construction activities undertaken in the reporting month were:
 - Excavation and laying of drainage pipe and manhole;
 - Seawall modification works:
 - Construction of tunnel box structure;
 - D-wall construction works:
 - Pumping test; and
 - Excavation and ELS construction.

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Inter-relationship with the environmental protection/ mitigation measures with the 1.4 construction programme

- According to the construction activities in the construction programme mentioned in Section 1.3.2, the following environmental protection/ mitigation measures including Air Quality Impact, Construction Noise Impact, Water Quality Impact, Chemical and Waste Management, Landscape and Visual Impact shall be implemented:
 - Sufficient watering of the works site with the active dust emitting activities:
 - Limitation of the speed for vehicles on unpaved site roads:
 - Properly cover or enclosure of the stockpiles and dusty materials;
 - Good site practices on loading dusty materials;
 - Providing sufficient vehicles washing facilities at every vehicle exit point;
 - Good maintenance to the plant and equipment;
 - Use of guieter plant and Quality Powered Mechanical Equipment (QPME):
 - Use of acoustic fabric and noise barrier:
 - Using the approved Non-road Mobile Machineries (NRMMs):
 - Proper storage and handling of chemical:
 - Appropriate desilting, oil interceptors or sedimentation devices provided on site for treatment before discharge;
 - Onsite waste sorting and implementation of trip ticket system:
 - Training of the site personnel in proper waste management and chemical waste handling procedures:
 - Proper storage of the construction materials;
 - Erection of decorative screen hoarding:
 - Strictly following the Environmental Permits and Licenses;
 - Provide sufficient mitigation measures as recommended in Approved EIA Reports

1.5 Status of Environmental Licences, Notifications and Permits

A summary of the relevant environmental licenses, permits and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

Table 1.2 Relevant Environmental Licenses, Permits and/or Notifications

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit	EP-337/2009 EP-339/2009/A	23 April 2009 18 June 2009	Not Applicable Not Applicable
	EP-451/2013	19 September 2013	Not Applicable
Notification pursuant to Air Pollution (Construction Dust) Regulation	395601	4 December 2015	Not Applicable
Billing Account for Waste Disposal	A/C No.: 7023814	22 December 2015	Not Applicable
Billing Account for Waste Disposal (Vessel)	A/C No.: 7027469	25 April 2018	18 August 2018
Construction Noise Permit	GW-RE0395-18	5 June 2018	4 December 2018

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Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Construction Noise Permit	GW-RE0006-18	12 January 2018	11 July 2018
Wastewater Discharge License	WT00023125-2015	6 January 2016	31 January 2021
Chemical Waste Producer License	5213-247-C1232-12	23 November 2015	Not Applicable

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AIR QUALITY 2.

2.1 **Monitoring Requirement**

In accordance with the approved EM&A Manuals, 24-hour Total Suspended Particulates (TSP) level at the designated air quality monitoring station is required. Impact 24-hour TSP monitoring should be carried out at least once every 6 days. In case of complaints, 1-hour TSP monitoring should be carried out at least 3 times per 6 days when the highest dust impacts are likely to occur. The Action and Limit Levels of the air quality monitoring are given in Appendix C.

2.2 **Monitoring Equipment**

The 24-hour TSP air quality monitoring was performed using High Volume Air Samplers (HVS) located at each of the designated monitoring station. Portable TSP Monitors would be used in case of complaints for 1-hour TSP monitoring.

Table 2.1 summarizes the equipment used in air quality monitoring.

Table 2.1 Air Quality Monitoring Equipment

Item	Location	Brand	Model	Equipment	Serial Number
1			TE-5170 (TSP)	High Volume Sampler	
			TE-300-310X	- Mass Flow Controller	2037
	KER1b	Tisch	TE-5005X	- Blower Motor Assembly	3482
			TE-5007X	- Mechanical Timer	4488
			TE-5009X	- Continuous Flow Recorder	4371
2			TE-5170 (TSP)	High Volume Sampler	
			TE-300-310X	- Mass Flow Controller	2524
	KTD1a	Tisch	TE-5005X	- Blower Motor Assembly	4037
			TE-5007X	- Mechanical Timer	5160
			TE-5009X	- Continuous Flow Recorder	4377
3			TE-5170 (TSP)	High Volume Sampler	
			TE-300-310X	- Mass Flow Controller	2618
	KTD2a	Tisch	TE-5005X	- Blower Motor Assembly	3838
			G3031	- Mechanical Timer	2251
			G1051	- Continuous Flow Recorder	2307
4		Tisch	TE-5025A	HVS Sampler Calibrator	438320/2456
5		*Sibata	Model LD-3B	Sibata Portable TSP Monitors	NA

No complaint of air quality was received. Therefore, no impact 1-hour TSP monitoring was conducted.

2.3 **Monitoring Methodology**

2.3.1 24-hour TSP air quality monitoring

HVS Installation

The following guidelines were adopted during the installation of HVS:

- Sufficient support is provided to secure the samplers against gusty wind.
- No two samplers are placed less than 2 meters apart.

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- The distance between the sampler and an obstacle, such as buildings, is at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2 meters of separation from walls, parapets and penthouses is required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
- No furnaces or incineration flues are nearby.
- Airflow around the samplers is unrestricted.
- The samplers are more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.

Filters Preparation

Fiberglass filters (provided by the HOKLAS accredited laboratory) shall be used (Note: these filters have a collection efficiency of larger than 99% for particles of 0.3 µm diameter). A HOKLAS accredited laboratory (ALS Technichem (HK) Pty Ltd.) is responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for monitoring team.

All filters are equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature is around 25°C and not variable by more than ± 3 °C; the relative humidity (RH) is < 50% and not variable by more than ± 5 %. A convenient working RH is 40%.

Operating / Analytical Procedures

Operating / analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the HVS are properly set (between 0.6 m³/min and 1.7 m³/min) in accordance with the EM&A manual. The flow rate shall be indicated on the flow rate chart.
- The power supply shall be checked to ensure the samplers worked properly.
- On sampling, the samplers shall be operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station.
- The filter holding frame is then removed by loosening the four nuts and carefully a weighted and conditioned filter is centered with the stamped number upwards, on a supporting screen.
- The filter shall be aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame is tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid shall be closed and secured with the aluminum strip.
- The timer is then programmed. Information shall be recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter shall be removed and sent to laboratory for weighing. The elapsed time is also recorded.
- Before weighing, all filters are equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%. Weighing results are returned to MCL for further analysis of TSP concentrations collected by each filter.

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2.3.2 1-hour TSP air quality monitoring

Operating / Analytical Procedures

The measuring procedures of the 1-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Pull up the air sampling inlet cover
- Change the Mode 0 to BG once
- Push Start/Stop switch once
- Turn the knob to SENSI.ADJ and press it
- Push Start/Stop switch once
- Return the knob to the position MEASURE slowly
- Push the timer set switch to set measuring time
- Remove the cap and make a measurement

2.4 **Maintenance / Calibration**

2.4.1 24-hour TSP air quality monitoring

The following maintenance / calibration are required for the HVS:

- The high volume motors and their accessories are properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking are made to ensure that the equipments and necessary power supply are in good working condition.
- All HVS shall be calibrated (five point calibration) using Calibration Kit upon installation and thereafter in every 3 months.
- A copy of the calibration certificates for the HVS and calibrator are provided in Appendix D.

1-hour TSP air quality monitoring

The portable TSP monitor should be calibrated at 1 year intervals

2.5 **Monitoring Locations**

- 2.5.1 According to the EM&A Manual, three air quality monitoring locations, namely KTD1, KTD2 and KER1, are covered by this Contract within the South Apron Area of Former Kai Tak Airport. The other two air quality monitoring locations, which are identified in Cha Kwo Ling area, are farther than 500m away from the site boundary and thus not covered by this Contract. The monitoring works in Cha Kwo Ling area are covered by other Contract(s) respectively.
- 2.5.2 According to the approved alternative baseline air quality and noise monitoring locations (EPD reference: EP2/K19/A/21 Pt.5), the original monitoring locations (KTD1, KTD2 and KER1) are proposed to be replaced by alternative monitoring locations (KTD1a, KTD2a and KER1b) for air quality monitoring, they are summarized in Table 2.2 and shown in Figure 2.

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Table 2.2 Location of Air Quality Monitoring Station

Monitoring Station	Location
KTD1a	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2a	G/IC Zone next to Kwun Tong Bypass (Future Hospital at Site 3C1)
KER1b	Site Boundary at Cheung Yip Street

2.6 Results and Observations

- 2.6.1 The schedule of air quality monitoring in reporting month is provided in **Appendix E**.
- 2.6.2 No Action / Limit Level exceedance was recorded for 24-hr TSP at KTD1a, KTD2a and KER1b in the reporting month.
- 2.6.3 No complaint of air quality was received. Therefore, no impact 1-hour TSP monitoring was conducted in the reporting month.
- 2.6.4 During the reporting month, major dust sources including loading and unloading of C&D wastes, vehicles movement were observed in the site. Non-project related construction activities at the nearby construction site and road traffic along Shing Cheong Road, Cheung Yip Street and the Kwun Tong By-pass were observed. The above factors may affect the monitoring results.
- 2.6.5 The weather conditions during the monitoring are provided in **Appendix K**.
- 2.6.6 The monitoring data of 24-hr TSP are summarized in **Table 2.3**. Detailed monitoring data are presented in **Appendix F**.

Table 2.3 Summary of 24-hr TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m³)	Limit Level (µg/ m³)
24-hr TSP	KTD1a	39	9 - 94	177	
in μg/m ³	KTD2a	34	21 - 72	157	260
ιτι μg/ττι	KER1b	32	15 - 54	172	

2.6.7 The Event and Action Plan for air quality is given in **Appendix H**.

2.7 Comparison of 24-hr TSP Monitoring Results with EIA Predictions

2.7.1 The monitoring data of 24-hr TSP was compared with the EIA predictions as summarized in **Table 2.4**.

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Table 2.4 Comparison of 24-hr TSP data with EIA predictions

Monitoring Station	Receiver Reference	Predicted Maximum 24-hour TSP Concentration (µg/m³)	24-hour TSP concentration in June 2018 (µg/m³)	Average 24-hour TSP concentration in June 2018 (µg/m³)
KTD1a	KTD3	126	9 - 94	39
KTD2a	-	-	21 - 72	34
KER1b	KTD6	169	15 - 54	32

Note:

For KTD2a, there was no receiver reference in the EIA report, EIAR-174/2013. Predicted Maximum TSP Concentration extracted from Table 4.14 of EIA Report, EIAR-174/2013.

The 24-hour TSP monitoring results at KTD1a, KTD2a and KER1b were below the Predicted Maximum 24-hr TSP concentration in the approved Environmental Impact Assessment (EIA) Report and no Action / Limit Level exceedance was recorded in the reporting period.

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3. **NOISE**

3.1 **Monitoring Requirement**

In accordance with the approved EM&A Manuals, Leq (30min) monitoring is conducted for at least once a week during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

3.2 **Monitoring Equipment**

The sound level meter used in noise monitoring will comply with the International Electrotechnical Commission Publication (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications as referred to in the Technical Memorandum issued under the Noise Control Ordinance (NCO).

Sound level calibrator will be used for the on-site calibration of the meter. This calibrator complies with the IEC Publication 942 (1988) Class 1 and ANSI S1.40 - 1984. Noise measurements were 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. This noise monitors are programmed to measure A-weighted equivalent continuous sound pressure level at 30-minute intervals between 0700 and 1900 on normal weekdays at least once a week when construction activities are underway.

Table 3.1 summarizes the noise monitoring equipment model being used for this project.

Table 3.1 **Noise Monitoring Equipment**

Item	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	1057034
2	Casella	CL63X Series	Integrating Sound Level Meter	1057055
3	Casella	CL63X Series	Integrating Sound Level Meter	4637931
4	Casella	CEL-120/1	Calibrator	5230742
5	Casella	CEL-120/1	Calibrator	5230758
6	Testo	05600480	Wind Speed Anemometer	61003846
	Benetech	GM816	Wind Speed Anemometer	13372555

3.3 **Monitoring Parameters and Frequency**

Table 3.2 presents the noise monitoring parameters and frequencies.

Monitoring Parameters and Frequencies of Noise Monitoring Table 3.2

Parameter	Frequency and Period
LAeq (30min)	At each station at 0700-1900 hours on normal weekdays at a frequency
L10 and L90 will be recorded for reference	of once a week

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3.4 **Monitoring Methodology**

The monitoring procedures are as follows:

- The monitoring station is set at a point 1m from the exterior of the sensitive receivers building facade and set at a position 1.2m above the ground.
- The battery condition is checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time are set as follows:
 - frequency weighting: A time weighting: Fast
 - measurement time: Weekly 30 minutes between 0700-1900 on normal weekdays
- Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
- Noise monitoring should be cancelled in the presence of fog. rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.
- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- At the end of the monitoring period, the Leq, L10 and L90 are recorded. In addition, site conditions and noise sources are recorded on a standard record sheet.

3.5 **Maintenance / Calibration**

Maintenance and Calibration procedures are as follows:

- The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator should be calibrated annually by a HOKLAS
- Relevant calibration certificates are provided in **Appendix D**.

3.6 **Monitoring Locations**

- According to the EM&A Manual, three noise monitoring locations, namely KTD1, KTD2 and KER1, are covered by this Contract within the South Apron Area of Former Kai Tak Airport. The other two noise quality monitoring locations, which are identified in Cha Kwo Ling area, are farther than 300m away from the site boundary and thus not covered by this Contract. The monitoring works in Cha Kwo Ling area are covered by other Contract(s) respectively.
- According to the approved alternative baseline air quality and noise monitoring locations (EPD reference: EP2/K19/A/21 Pt.5), the original monitoring locations (KTD1, KTD2 and KER1) are proposed to be replaced by alternative monitoring locations (KTD1a, KTD2a and KER1b) for noise monitoring, they are summarized in **Table 3.3** and shown in **Figure 2**.

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Table 3.3 Location of Noise Monitoring Station

Monitoring Station	Location
KTD1a	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2a	G/IC Zone next to Kwun Tong Bypass (Future Hospital at Site 3C1)
KER1b	Site Boundary at Cheung Yip Street

3.7 Results and Observations

- 3.7.1 The schedule of noise monitoring in reporting month is provided in **Appendix E**.
- 3.7.2 During the monitoring month, at KTD1a, non-project related construction activities at the nearby construction site and road traffic along Shing Cheong Road were observed in the surroundings. At KTD2a, road traffic along the Kwun Tong By-pass was observed. At KER1b, road traffic along Cheung Yip Street was observed. Major noise sources including noise emission from plant & PME and some other construction activities, travel of vehicles, loading and unloading of C&D waste were observed in the site. The above factors may affect the monitoring results.
- 3.7.3 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation. The weather conditions during the monitoring month are provided in **Appendix K**.
- 3.7.4 The noise monitoring data are summarized in **Table 3.4**. Detailed monitoring data are presented in **Appendix G**.

Table 3.4 Summary of Noise Impact Monitoring Results

Time Period	Leq _(30min) dB(A) (Range) Noise Monitoring Stations			Action Level	Limit Level
	KTD1a				
0700-1900 hrs on normal weekdays	68 - 73	58 - 69	61 - 66	When one documented complaint is received	75 dB(A)

Note:

KTD1a: Façade Measurement

KTD2a & KER1b: Free-field measurement (+3dB(A) correction has been applied)

- 3.7.5 No Action / Limit Level exceedance of location KTD1a, KTD2a and KER1b was recorded for construction noise in the reporting month.
- 3.7.6 The Action and Limit Levels for noise impact monitoring have been set are presented in **Appendix C**.
- 3.7.7 The Event and Action Plan for noise is given in **Appendix H**.

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3.8 **Comparison of Noise Monitoring Results with EIA Predictions**

3.8.1 The noise monitoring data was compared with the EIA predictions as summarized in **Table 3.5**.

Table 3.5 Comparison of Noise Monitoring data with EIA predictions

Monitoring Station	Receiver Reference	Maximum Predicted Mitigated Construction Noise Level, dB(A)	Maximum Leq _(30min) dB(A) In June 2018
KTD1a	KTD1	74	73
KTD2a	KTD2	75	69
KER1b	KER1	75	66

Note:

Maximum Predicted Mitigated Construction Noise Level extracted from Table 5.13 of EIA Report, EIAR-174/2013.

The impact noise monitoring results of location KTD1a, KTD2a and KER1b in the reporting 3.8.2 month did not exceed the Maximum Predicted Mitigated Construction Noise Level in the approved Environmental Impact Assessment (EIA) Report and no Action / Limit Level exceedance was recorded in the reporting period.

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LANDSCAPE AND VISUAL 4.

4.1 **Audit Requirements**

- As per the Trunk Road T2 EM&A Manual, the landscape and visual mitigation measures during the construction phase shall be audited by a Registered Landscape Architect, as a member of the Environmental Team, at least once every two weeks to ensure compliance with the intended aims of the measures.
- 4.1.2 According to the Kai Tak Development EM&A Manual, measures to mitigate landscape and visual impacts during construction should be checked to ensure compliance with the intended aims of the measures. The progress of the engineering works shall be regularly reviewed onsite to identify the earliest practical opportunities for the landscape works to be undertaken. The ET shall report on the Contractor's compliance on a weekly basis.

4.2 **Results and Observations**

- To monitor and audit the implementation of landscape and visual mitigation measures, four weekly Landscape and Visual Site audits were carried out on 7, 14, 21 and 28 June 2018 and two of them 7 and 21 June 2018 were carried out by a Registered Landscape Architect. The weekly Landscape and Visual Impact reports were counter-signed by IEC as according to the requirement of EM&A Manual (AEIAR-130/2009).
- During the site audit on 21 June 2018, unused construction materials and construction waste were observed, stockpile should be removed or covered properly (Zone 1 and Zone 2).
- 4.2.3 Should non-compliance of the landscape and visual impact occur, action in accordance to the event action plan presented in **Appendix H** shall be carried out.

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WASTE MANAGEMENT 5.

5.1 **Audit Requirements**

- The effective management of waste arising during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor.
- The audit should look at all aspects of on-site waste management practices including the waste generation, storage, recycling, transport and disposal. The aims of waste audit are:
 - to ensure the waste arising from the works are handled, stored, collected, transferred and disposed of in an environmentally acceptable manner;
 - verify the implementation status and evaluate the effectiveness of the mitigation measures; and
 - to encourage the reuse and recycling of material.

5.2 **Results and Observations**

- 5.2.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- The amount of wastes generated by the site activities in the reporting month is shown in Appendix I.

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SITE INSPECTION 6.

6.1 **Site Inspection**

- Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix J**.
- In the reporting month, four site inspections were carried out on 7, 14, 21 and 28 June 2018. Two of them, held on 7 and 14 June 2018 were the joint inspections with the IEC, ER, the Contractor and the ET.
- No outstanding issues were reported during the reporting month. Details of observations recorded during the site inspections are summarized in **Appendix M**.
- All the follow-up actions requested by Contractor's ET and IEC during the site inspections were undertaken as reported by the Contractor and confirmed in the following weekly site inspection conducted during the reporting month.

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7. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

7.1 Environmental Exceedance

7.1.1 No Action / Limit Level exceedance was recorded for 24-hr TSP and construction noise at KTD1a, KTD2a and KER1b in the reporting month.

7.2 Complaints, Notification of Summons and Prosecution

- 7.2.1 A complaint received on 30 May 2018 was referred from EPD on 8 June 2018 and summarized as below:
 - The complainant complained that some large stockpiles were found uncovered and dust emission was observed during excavation (the site between Kai Fuk Road and Shing Cheong Road, Southwest of Kowloon Bay International Trade & Exhibition Center).

The notification of complaint was received by ET on 9 June 2018.

7.2.2 Joint site inspection was carried out by ET, HMJV and CRBC on 31 May 2018, by ET, IEC, HMJV and CRBC on 7 and 14 June 2018.

It was observed that:

- Open stockpiles of construction materials at Portion I were covered with impermeable sheeting and kept moist to prevent the dust emission;
- Hydroseeding was provided and developed on the surface of the stockpiling materials to protect the soil surface to reduce dust emission;
- No dust emission was observed during excavation.

The complaint received on 30 May 2018 is not valid.

- 7.2.3 No environmental complaint, notification of summons and successful prosecution were received in the reporting month.
- 7.2.4 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L.**

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8. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

8.1 **Implementation Status**

8.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month is summarized in Appendix J. Status of required submission under the EP during the reporting period is summarized in **Table 8.1**.

Table 8.1 Status of Required Submission under Environmental Permit

Table 6.1 Ctatus of Required Cabinission under Environmental Fernit									
EP Condition	Submission	Submission Date							
EP-337/2009									
Condition 2.3	Management Organization of Main Construction Companies	18/12/2015							
Condition 2.4	Design Drawing of the Project	18/12/2015							
Condition 2.11	Landscape Mitigation Plan(s)	18/12/2015							
Condition 3.3	Monthly EM&A Report (May 2018)	13/6/2018							
EP-339/2009/A									
Condition 2.4	Management Organization of Main Construction Companies	18/12/2015							
Condition 2.5	Design Drawing of the Project	18/12/2015							
Condition 3.3	Monthly EM&A Report (May 2018)	13/6/2018							
EP-451/2013									
Condition 2.3	Management Organization of Main Construction Companies	18/12/2015							
Condition 2.4	Design Drawing of the Project	18/12/2015							
Condition 2.5	Landscape Mitigation Plan(s)	18/12/2015							
Condition 2.10	Supplementary Contamination Assessment Report	18/12/2015							
Condition 3.3	Baseline Monitoring Report	12/02/2016							
Condition 3.4	Monthly EM&A Report (May 2018)	13/6/2018							

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FUTURE KEY ISSUES 9.

9.1 **Construction Programme for the Next Two Months**

- Installation of sheet pile for drainage works;
- Excavation and laying of drainage pipe and manhole;
- Construction of road base and road pavement:
- Seawall modification works:
- Construction of tunnel box structure:
- D-wall construction works:
- Construction of socketed H-Pile;
- Pumping test; and
- Excavation and ELS construction.

9.2 **Key Issues for the Coming Month**

9.2.1 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.

9.3 **Monitoring Schedules for the Next Three Months**

9.3.1 The tentative schedules for environmental monitoring in the coming three months are provided in Appendix E.

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CONCLUSIONS 10.

- 10.1.1 24-hour TSP impact monitoring and construction noise monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 10.1.2 No complaint of air quality was received. Therefore, no impact 1-hour TSP monitoring was conducted in the reporting month.
- 10.1.3 Four environmental site inspections were carried out in the reporting Recommendations on mitigation measures on air quality, water quality, waste management and landscape and visual impact were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 10.1.4 Four weekly Landscape and Visual Site audits were carried out on 7, 14, 21 and 28 June 2018 and two of them, 7 and 21 June 2018 were carried out by a Registered Landscape Architect in the reporting month. The weekly Landscape and Visual Impact reports were counter-signed by IEC as according to the requirement of EM&A Manual (AEIAR-130/2009).
- 10.1.5 Referring to the Contractor's information, no environmental complaint, notification of summons and successful prosecution was received in the reporting month.

Comment and Recommendations 10.2

- 10.2.1 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.
- 10.2.2 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality Impact

Unused construction materials and construction waste should be removed or covered properly.

Construction Noise Impact

No specific observation was identified in the reporting month.

The surrounding of discharge point should be kept clear of silt, dusty and muddy materials.

Chemical and Waste Management

Unused construction materials and construction waste should be removed or covered properly.

Land Contamination

No specific observation was identified in the reporting month.

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Landscape and Visual Impact

Unused construction materials and construction waste should be removed or covered properly.

General Condition

No specific observation was identified in the reporting month.

Permit / Licenses

No specific observation was identified in the reporting month.

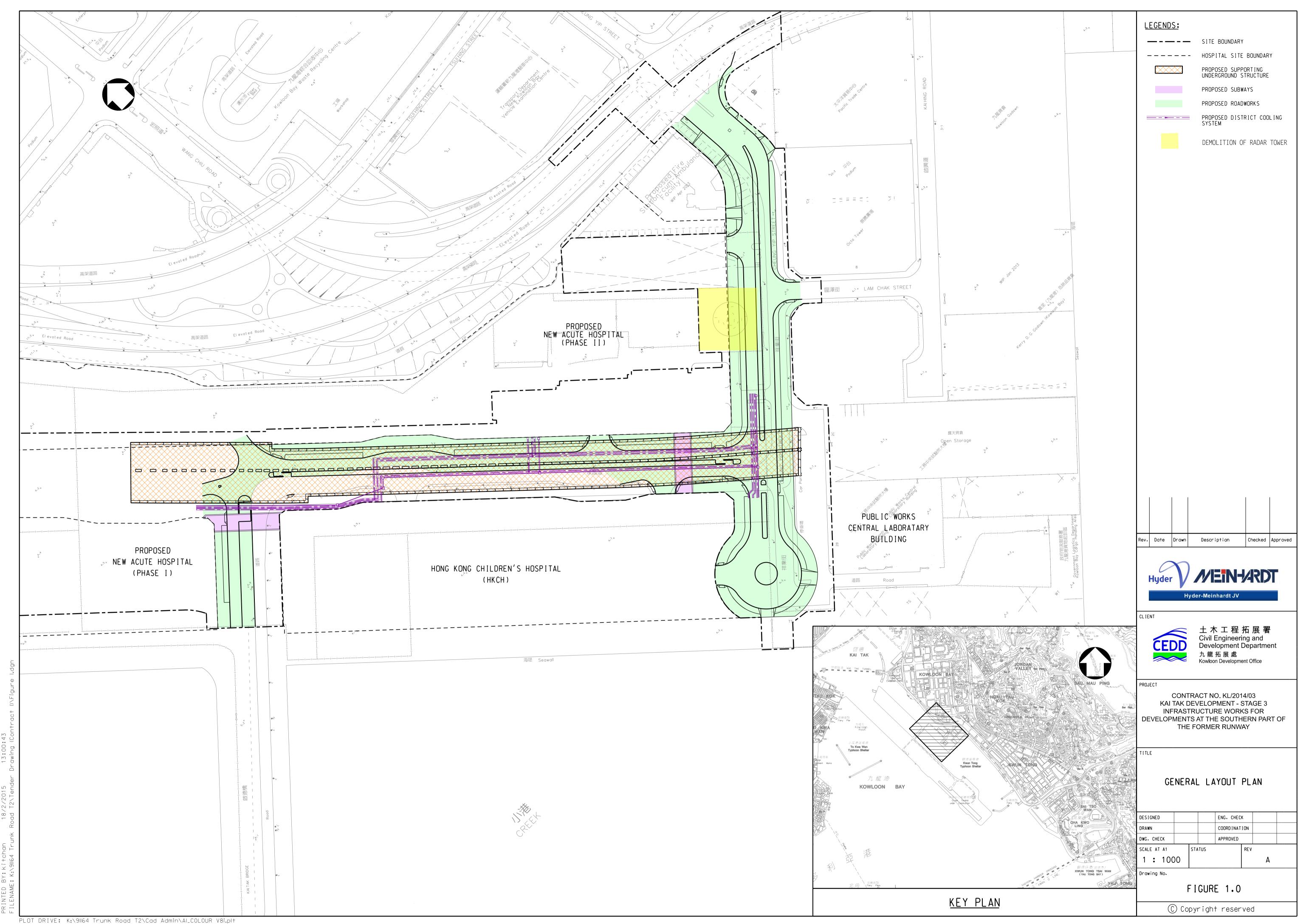
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Figure 1

Project General Layout



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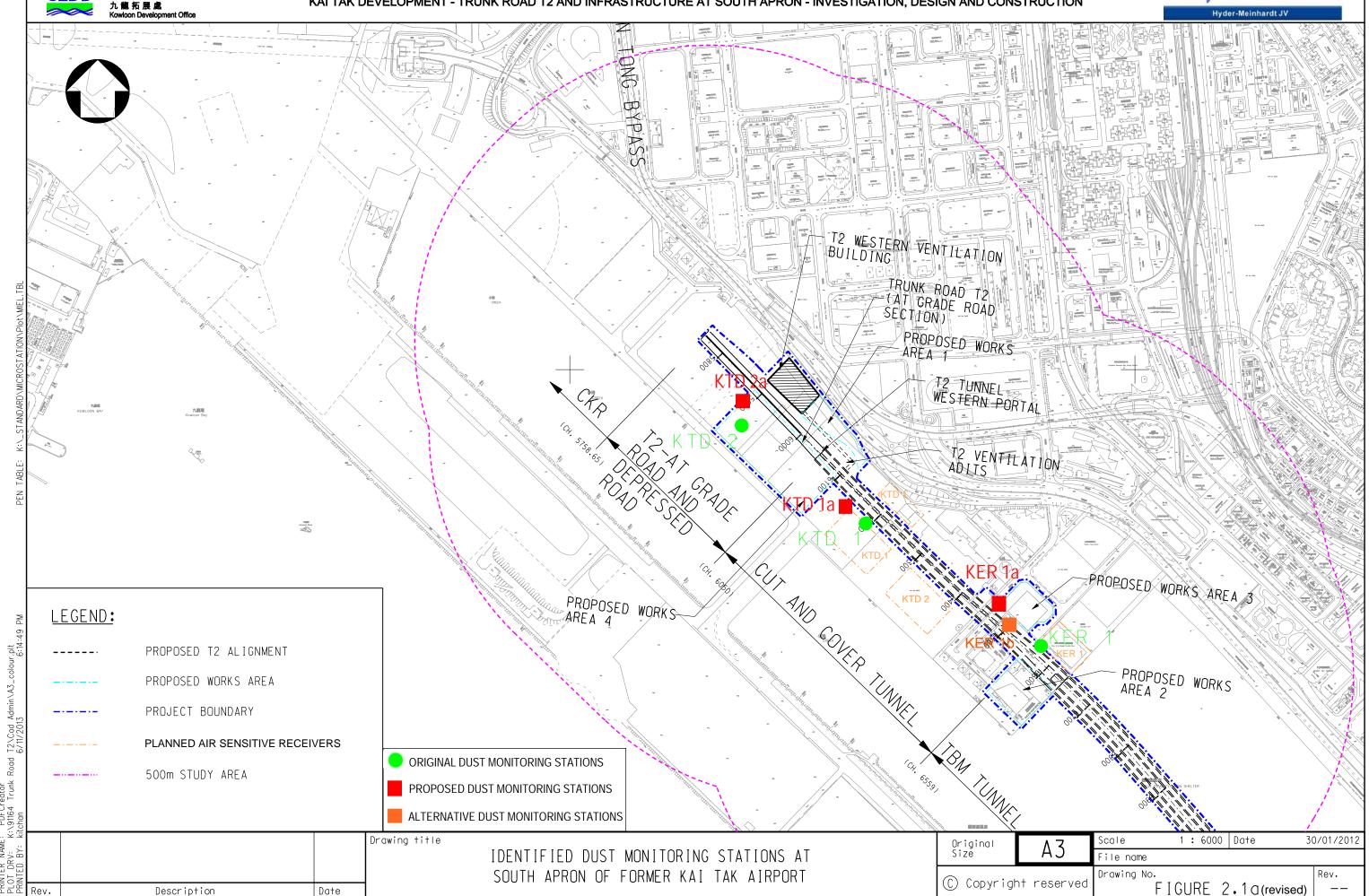
Figure 2

Air and Noise Monitoring Locations

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Civil Engineering and
Development Department
九龍拓展處
Kowloon Development Office

AGREEMENT NO. CE 38/2008(HY) KAI TAK DEVELOPMENT - TRUNK ROAD T2 AND INFRASTRUCTURE AT SOUTH APRON - INVESTIGATION, DESIGN AND CONSTRUCTION

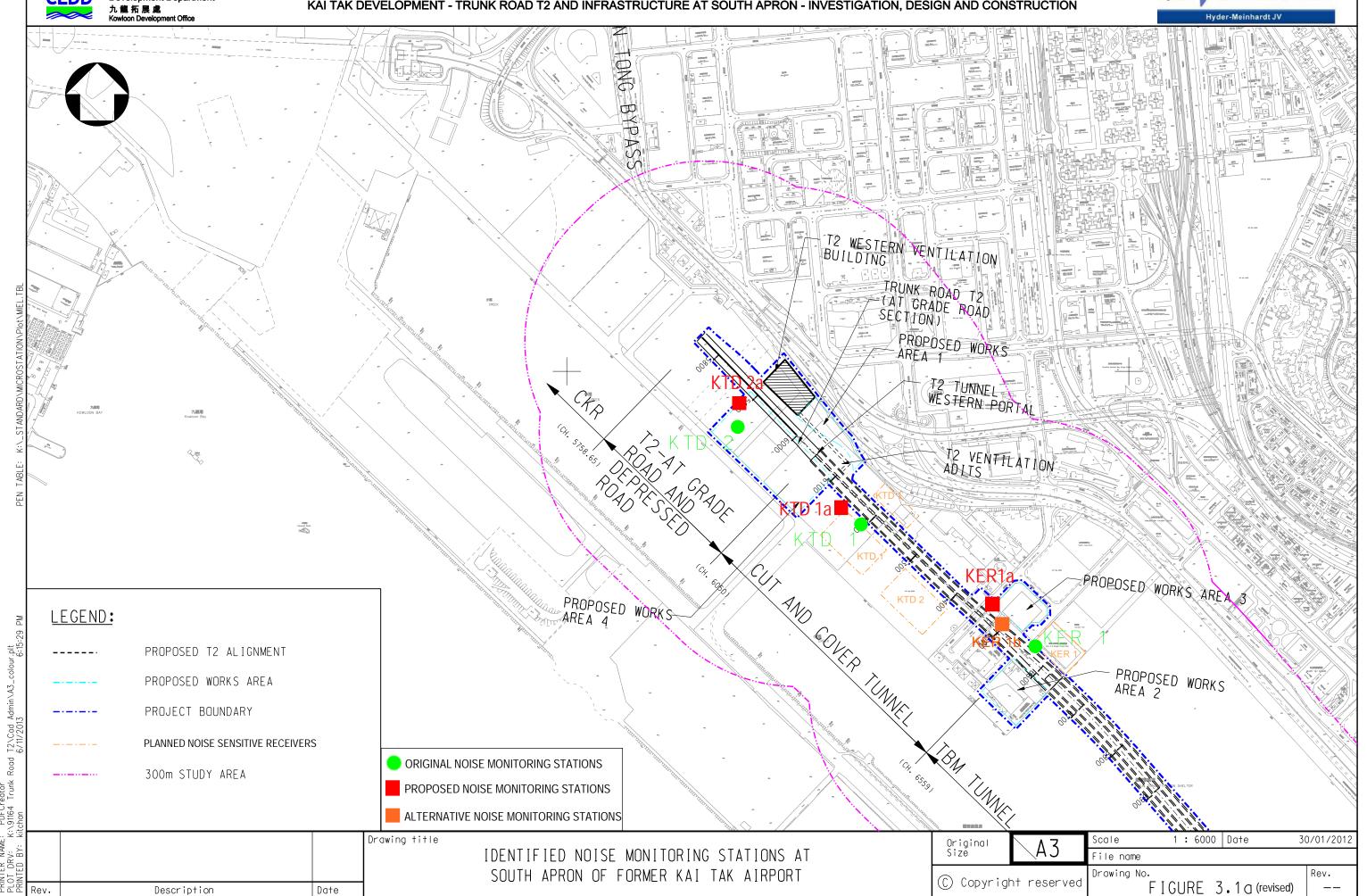




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Appendix A

Construction Programme

Hyder - Meinhardt JV	KL/2014/03 Kai Tak Developme	nt - St	age 3 Infra	astructure	e Works for Developments	at the So	uthern Part of th	ne Former Ru	nway	CEDD	土木工程拓 Civil Engineering Development Dep 九龍拓展處	展署 and partment
ctivity ID Activity Name		Rem Dur	Start	Finish	May 35		June 36	July 3	ily 7	200	August	Jmice:
171 /2014/02 C/ 21 C	W. I. C. D. I		· Calla E	n n	29 06 13 20 2	7 03	10 17 24	01 08	15 22	29 05	12 19	26
	ture Works for Developments at the Souther	n Part	of the Form	ier Kunw:								
Project Key Dates												
Site Handover Date												
K-PK-SHD-1100 Portion B		0		31-May-18*		◆ Portion B						
K-PK-SHD-1200 Portion B1		0		31-May-18*		◆ Portion B1		 				
K-PK-SHD-1300 Portion C		0		31-Jul-18*				 		◆ Portion C		
K-PK-SHD-1500 Portion E		0		31-May-18*		Portion E		 				
K-PK-SHD-1600 Portion F		0		23-Jun-18*			◆ Portion	<u></u>				
K-PK-SHD-1700 Portion H		0		31-Jul-18*				 		◆ Portion H		
K-PK-SHD-2300 Portion P		0		31-Jul-18*				 		◆ Portion P		
K-PK-SHD-2500 Portion R		0		31-May-18*		◆ Portion R		į				
General Submission								 				
Major Temporary Works Design								 				
K-PA-GSP-6840 ELS design for const	truction of subway A (Bay 1&5)	35	28-Feb-18 A	04-Jul-18				ELS design for	construction of	subway A (Bay 1&5))	
K-PA-GSP-7010 ELS design for const	truction of DCS - Stage 2	35	27-Jun-18	31-Jul-18						ELS design for	construction o	of DCS - Stag
Major Construction Works Metho	od Statement											
K-PA-GSP-7455 Engineer's comments	s and approval	8	23-Oct-17 A	07-Jun-18		Eng	ineer's comments and app	poval				
K-PA-GSP-7460 Method statement fo	or Construction of subway A (Bay 1&5)	28	31-May-18	27-Jun-18			M	ethod statement for Co	onstruction of sub	oway A (Bay 1&5)		
K-PA-GSP-7465 Engineer's comments	s and approval	28	28-Jun-18	25-Jul-18				<u> </u>	Er	ngineer's comments a	nd approval	
Temporary Traffic Management								 				
Temp Traffic Arrangement Schemes								 				
Cheong Road	roval of TTA schemes-TTA stage 4 for re-construction of Shing	90	11-Jul-18	08-Oct-18								
Implementation of Temporary Traffic												
K-PA-TTA-4100 TTA stage 3 - Road		0	14-Jun-18				◆ TTA stage 3 - Road o	diversion at Cheung Y	p Street phase 2			
Materials Procurement (Major N	Aaterials)							¦ 				
ELS struct / waling		,						 				
K-PA-MP-1150 Manufacturing & de	livery to site	10	10-Jun-16 A	09-Jun-18		N	Manufacturing & delivery t	o site				
Water Works												
K-PA-MP-1050 Manufacturing & de	livery to site	150	31-May-18	27-Oct-18								
Chilled Water Pipes - DCS												
K-PA-MP-1350 Manufacturing & de	livery to site	200	06-Feb-17 A	16-Dec-18								
					_	-						
	◆ Milestone						Project ID :30 3MRP Jun			3 Months Rolling I		
中國路橋工程有限責用	日本公司 Critical Activity Non-Critical Activity			2 MDD	lum 2040 A 2040		Layout : KL201403 3MR		Date 21 May 19	Revision	Checked	Approved
CHINA ROAD AND BRIDGE CORP	ORATION Remaining Level of Effort Actual Work			S WIKP .	Jun 2018 - Aug 2018 Page 1 of 6		Page 1 of 6		31-May-18	Jun 18 - Aug 18		

	EIN-KRDT	KL/2	014/03 Kai Tak Developmer	nt - St	tage 3 Infr	astructure	e Works for Developments	s at the Sou	uthern Part of th	he Former Ru	nway	CEDD	エ 不 上 柱 拍 / Civil Engineering a Development Dep 九龍拓展處	and
Hyder - Mein	Activity Name			Rem	Start	Finish	May		June		ıly		Kowloon Development O August	jer Der
				Dur			29 06 13 20 2	27 03	36 10 17 24	01 08	15 22	29 05	38 12 19	26 2
Prelimiaries														
K-DR-PRE-1800	Submission of time-la	apsed photographs	and video	496	20-Feb-16 A	08-Oct-19								
Barge Loading	Facilities													
K-DR-PRE-1480	Operation of tempora	ary barging point		115	21-Jun-17 A	16-Oct-18				-				
Instrumentation	and Monitoring												••••••	
Tilt Monitoring	Tile Plates													
K-IM-TMT-1000	Tilt Monitoring near	PWCL		0	25-Apr-16 A	31-May-18		Tilt Monitoring	g near PWCL					
Section 1 of the	Works-Remain der	r of the Works								-				
Roadwork and	Drainage Works													
Road D4-4 (Che	eung Yip Street)													
CH240 - CH400	Northbound					_								
Laying of Drainag	ge Pipe and Constructi	ion of Manhole (M2	06 to M213)							-				
K-01-RWS-9420	Construction of Elect Strainer Combined C		eter, Pressure Reducing Valve and In-line	0	17-Apr-18 A	30-May-18 A		Construction of I	Electromagnetic Flowme	ter, Pressure Reducing	Valve and In-line	Strainer Combined	Chamber (V.O)
Road Works	Statute Combined C	number (v.o)								- 				
K-01-RWS-9440	Construction of Road	Base and Road Pa	vement	7	14-Mar-18 A	09-Jun-18		C	onstruction of Road Base	and Road Pavement				
CH240 - CH400 S	Southbound													
Sewerage Works														
K-01-RWS-9387	Excavation of Sewer	age Pipe and Manh	ole (3E1-1)	6	14-Jun-18	21-Jun-18			Excavation	n of Sewerage Pipe ar	d Manhole (3E1-1)			
K-01-RWS-9460	Laying Sewerage Pip	e and Manhole (3F	1-1)	22	22-Jun-18	18-Jul-18						age Pipe and Manh		
K-01-RWS-9470	Backfilling Sewerage	e Pipe and Manhole	(3E1-1)	12	19-Jul-18	01-Aug-18						Backfilling Se	werage Pipe a	nd Manhole (3
Laying of Drainag	ge Pipe and Constructi	ion of Manhole (M2	14, M301 to M306)											
K-01-RWS-9485	Excavation of Draina	age Pipe and Manho	ele (M214, M301 to M306)	6	02-Aug-18	08-Aug-18				 		Exca	avation of Drai	nage Pipe and
K-01-RWS-9490	Laying Drainage Pipe	e and Construction	Manhole (M214, M301 to M306)	22	09-Aug-18	03-Sep-18								
Temporary Traffic	c Arrangement													
K-01-RWS-9445	Temporary Road Cor	nstruction for TTA s	tage 3 - phase 2	7	26-May-18 A	13-Jun-18		-	Temporary Road Con	struction for TTA stag	e 3 - phase 2			
K-01-RWS-9450	Implementation of T	TA stage 3 - phase	2	0	14-Jun-18				◆ Implementation of T	TA stage 3 - phase 2				
Section 1A of the	e Works -Constru	ction of Suppo	rting Underground Structure (Alter	rnative	e Design)					- 				
SUS and Ventila	ation Adits from C	CH6+150 to CH	6+220 in Zone 1											
Construction of	Tunnel Box Struct	ure												
SUS Bay 1 (Ch61)	50-Ch6167.5)									· · · · · · · · · · · · · · · · · · ·				
K-1A-SV1-8420	Breaking and Remov	val of D-wall to +2.	5mPD	10	22-May-18 A	11-Jun-18			Breaking and Removal of	of D-wall to +2.5mPD				
-	+					,	•	•		•				
			◆ ◆ Milestone						Project ID :30 3MRP Jur	n -Aug 18		3 Months Rolling P		
中國路	橋工程有限責任	壬公司	Critical Activity Non-Critical Activity			2 MDD	lun 2010 Aug 2010		Layout : KL201403 3MF		Date 31-May-18 Ju	Revision n 18 - Aug 18	Checked	Approved
CHINA RO	AD AND BRIDGE CORPO	ORATION	Remaining Level of Effort			J WIRP	Jun 2018 - Aug 2018		Page 2 of 6		31-Iviay-10 Ju	10 - Aug 10	+ -	
			Actual Work				Page 2 of 6				<u>'</u>			-

Hyder MEIN-ARDT KL/2014/03 Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway CEDD Dur SUS Bay 2 (Ch6167.5-Ch6185) K-1A-SV1-9020 Breaking and Removal of D-wall to +2.5mPD Breaking and Removal of D-wall to +2.5mPD 10 04-May-18 A 11-Jun-18 **Backfilling Works** ■ Backfilling (bay 1 to bay 2) (to +3.7m) K-1A-SV1-6900 Backfilling (bay 1 to bay 2) (to +3.7m) 6 23-Apr-18 A 23-Jun-18 SUS and Ventilation Adits from CH6+220 to CH6+291 in Zone 2 W/B Construction of D-Wall in TTA Stage 2 K-1A-SV2-4800 Trimming D-wall at Cut-off Level 30 22-Aug-18 26-Sep-18 K-1A-SV2-4810 Open through D-walls for DCS mains 26-Sep-18 30 22-Aug-18 **Excavation and ELS Construction** Excavation and Lateral Support to S6A (CH6+260 to CH6+291) K-1A-SV2-9020 Excavation and Lateral Support to S6A (CH6+260 to CH6+291) 0 12-Apr-18 A 30-Apr-18 A Excavation to formation Level (CH6+260 to CH6+291) 0 01-May-18 A 12-May-18 A K-1A-SV2-9030 Excavation to formation Level (CH6+260 to CH6+291) Lateral Support for S6A (CH6+220 to CH6+260) K-1A-SV2-9050 Lateral Support for S6A (CH6+220 to CH6+260) 0 21-May-18 A 31-May-18 A Excavation to formation Level (¢H6+220 to CH6+260) K-1A-SV2-9060 Excavation to formation Level (CH6+220 to CH6+260) 5 31-May-18 05-Jun-18 Sheet pile installation fo VA2 construction (CH6+220 to CH6+260) K-1A-SV2-9070 | Sheet pile installation for VA2 construction (CH6+220 to CH6+260) 12-May-18 A 0 30-Apr-18 A Excavation and Lateral Support to formation -19.1mPD for VA2 construction (CH6+220 to C K-1A-SV2-9730 Excavation and Lateral Support to formation -19.1mPD for VA2 construction 06-Jun-18 25-Jun-18 (CH6+220 to CH6+260) **Construction of SUS Structure at Zone 2** Base Slab VA2 Bay 1 001 Base Slab _VA2_Bay 1 25-Jun-18 29-Jun-18 ■ Base Slab VA2 Bay 002 Base Slab _VA2_Bay 2 29-Jun-18 05-Jul-18 ■ Dismantling Struts Bay 1 003 Dismantling Struts Bay 1 02-Jul-18 03-Jul-18 ■ Dismantling Struts Bay Dismantling Struts Bay 2 09-Jul-18 08-Jul-18 004 Wall Stem Bay 1 005 Wall Stem Bay 1 03-Jul-18 07-Jul-18 Wall Stem _Bay 2 13-Jul-18 Wall Stem Bay 2 09-Jul-18 006 Re-prop_Bay 1 Re-prop_Bay 1 12-Jul-18 007 09-Jul-18 Re-prop_Bay 2 Re-prop_Bay 2 15-Jul-18 18-Jul-18 ■ Dismantling Struts _SV1__Bay 1 009 Dismantling Struts SV1 Bay 1 13-Jul-18 12-Jul-18 ■ Dismantling Struts SV1 Bay 2 Dismantling Struts SV1 Bay 2 19-Jul-18 010 18-Jul-18 Wall Stem Bay 1 Wall Stem Bay 1 011 13-Jul-18 18-Jul-18 Wall Stem_Bay 2 012 Wall Stem Bay 2 19-Jul-18 24-Jul-18 Erect Scaffolding Base Slab 1A & B Erect Scaffolding_Base Slab 1A & B 28-Jul-18 013 24-Jul-18 ■ Soffit formworks Base Slab 1A & B 014 Soffit formworks Base Slab 1A & B 28-Jul-18 29-Jul-18 3 Months Rolling Programme Project ID:30 3MRP Jun -Aug 18





3 MRP Jun 2018 - Aug 2018

Project ID :30 3MRP Jun -Aug 18 Layout : KL201403 3MRP Page 3 of 6

5 Working Frogramme								
Date	Revision	Checked	Approved					
31-May-18	Jun 18 - Aug 18							

Hyder	MEIN-ARDT	KL/2	014/03 Kai Tak Develop	ment - S	tage 3 Infr	astructure	Works for D	evelopment)	s at the S	outhern Part of	the Former R	unway	CEDD	土木工程拓J Civil Engineering a Development Dep 九龍拓展處	and partment
Activity ID	Activity Name			Rem Dur	Start	Finish	H	May 35		June 36		July 37		August 38	Office De
Bay 1				Dui			29 06		27 03	10 17 24	01 08	15 22	29 05	12 19	
018	Base Slab Bay 1A			7	28-Jun-18	04-Jul-18					Base Slab	Bay 1 A			
019	Base Slab _Bay 1B			7	29-Jul-18	05-Aug-18					-			ab Bay 1B	
020	Dismantling of Struts	Ray 1		7	09-Aug-18	16-Aug-18								- ′ 	ntling of Struts
021	Wall _Bay 1A & B	_Buy 1		14		20-Jul-18						Wall Bay	/1A&B		
022	Top Slab _1A&B				18-Aug-18	31-Aug-18									
Bay 2	Top Slub _Trees				10 /1ug 10	31 / ug 10									
024	Base Slab _Bay 2			0	19-Jun-18	27-Jun-18					Base Slab Bay 2				
025	Dismantling of Struts	Pay 2		2	02-Jul-18	04-Jul-18					_	of Struts Bay 2			
	Wall Bay 2	_Bay 2		12		18-Jul-18									
026				12											
027	Top Slab _2			15	25-Jul-18	08-Aug-18							10,		
Bay 3	D GI D 1				11.14 10.4	26.16 10.4		Do	se Slab Bay 3						
029	Base Slab _Bay 3				11-May-18 A	_				ling of Struts Bay 3					
030	Dismantling of Struts	Bay 3		3	31-May-18	02-Jun-18				ling of Struts_Bay 3					
031	Wall _Bay 3			8	22-Jun-18	29-Jun-18					wall _Bay 3				
032	Top Slab _3			14	11-Jul-18	24-Jul-18						Top	Slab _3		
Backfilling W															
	Backfilling (bay 3) (1			40	30-Jul-18	13-Sep-18									
SUS Structu	re from CH6+291 to	6+467 in Zone	3												
	and ELS Construction														
K-1A-SV3-58	Excavation and Later	ral Support (S7) to	-18.20mPD		02-Mar-18 A				11 \	7) to -18.20mPD					
K-1A-SV3-59	Excavation to formation	ion -21.5mPD		0	18-Mar-18 A	21-May-18 A	1	Excavatio	n to formation -2	1.5mPD					
Construction	n of SUS Structure at 2	Zone 3													
SUS Construc	ction Works at Zone 3														
Bay 4															
035	Dismantling of Struts	_Bay 4		0	02-May-18 A	04-May-18 A	1								
036	Wall _Bay 4			22	18-May-18 A	21-Jun-18				Wall_B	ay 4				
037	Top Slab _4			17	24-Jun-18	10-Jul-18					Тор	Slab _4			
System Form	works														
039	Base Slab_Bay5			0	24-Apr-18 A	05-May-18 A	Base Slab_I	Bay5							
040	Dismantling of Struts	_Bay 5		0	11-May-18 A	17-May-18 A		Dismantling of	Struts _Bay 5						
						1	L		1		1				
			♦ Milestone							Project ID :30 3MRP J			3 Months Rolling		
中国	网路橋工程有限責任	于公司	Critical Activity Non-Critical Activity			2 MDD	lun 2019	Aug 2019		Layout : KL201403 3N	ИRP	Date 31-May-18 J	Revision un 18 - Aug 18	Checked	Approved
CHINA	A ROAD AND BRIDGE CORPO	DRATION	Remaining Level of Effort Actual Work			J WIRE J	Jun 2018 - A	Aug 2010		Page 4 of 6					

Hyder MEINHARDT KL/2014/03 Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway CEDD Dur 03 10 Wall_bay 5 041 17 18-May-18 A 16-Jun-18 Top slab SF Bay 042 Top slab_SF_Bay 1 20-Jun-18 09-Jul-18 Base Slab_Bay 6 0 24-Apr-18 A 05-May-18 A 043 Dismantling of Struts Bay 6 044 4 31-May-18 03-Jun-18 Wall bay 6 26-Jun-18 045 23 04-Jun-18 Top slab_SF_Bay 2 25-Jul-18 046 10-Jul-18 Base Slab Ba Base Slab Bay7 19-May-18 A 047 0 11-May-18 A Dismantling of Struts Bay 048 Dismantling of Struts Bay 7 13 31-May-18 12-Jun-18 049 Wall Bay 7 24-Jun-18 17-Jun-18 050 Top slab SF Bay 3 26-Jul-18 07-Aug-18 Base Slab Bay 8 051 02-Jun-18 10-Jun-18 Dismantling of Struts _Bay 8 _Crane No. 3 23-Jun-18 052 15-Jun-18 052.1 Wall_Bay 8 12-Jul-18 05-Jul-18 Top slab_SF_Bay 4 054 10-Aug-18 22-Aug-18 Base Slab Bay 9 Base Slab Bay 9 14-Jun-18 055 02-Jun-18 Dismantling of Struts Bay 056 Dismantling of Struts Bay 9 19-Jun-18 30-Jun-18 056.1 Wall_Bay 9 18-Jul-18 25-Jul-18 04-Sep-18 Top slab_SF_Bay 5 058 13 23-Aug-18 059 Base Slab_Bay 10 2 24-May-18 A 01-Jun-18 Dismantling of Struts Bay 10 060 01-Jul-18 07-Jul-18 Wall Bay 10 061 08-Aug-18 8 01-Aug-18 **Backfilling Works** K-1A-SV3-9020 Backfilling (CH6+291 to CH6+347 +0.65mPD) 06-Oct-18 08-Aug-18 23-Aug-18 K-1A-SV3-9030 Backfilling (CH6+347 to CH6+387 +0.65mPD) 13-Nov-18 SUS Structure from CH6+467 to 6+568 in Zone 4 **Excavation and ELS Construction** Excavation and Lateral Support (S4) to -14.20mPD (Excavation works resequenced) K-1A-SV4-5750 Excavation and Lateral Support (S4) to -14.20mPD (Excavation works 0 01-Feb-18 A 10-May-18 A resequenced) Excavation and Lateral Support (S5) to -18.20mPD K-1A-SV4-5800 Excavation and Lateral Support (S5) to -18.20mPD 7 05-Mar-18 A 07-Jun-18 Excavation and Lateral Support (S6) to -21.20mPD K-1A-SV4-5850 Excavation and Lateral Support (S6) to -21.20mPD 10 02-Apr-18 A 20-Jun-18 Excavation and Lateral Support (S7) to -25.20mPD K-1A-SV4-5900 Excavation and Lateral Support (S7) to -25.20mPD 05-Jul-18 18 07-May-18 A Excavation to Formation -27.0mPD K-1A-SV4-5950 Excavation to Formation -27.0mPD 8 19-May-18 A 11-Jul-18 3 Months Rolling Progra Project ID:30 3MRP Jun -Aug 18 Critical Activity Layout: KL201403 3MRP 中國路橋工程有限責任公司





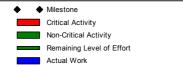
3 MRP Jun 2018 - Aug 2018 Page 5 of 6

Page 5 of 6

5 World's Rolling i Togramme								
Date	Revision	Checked	Approved					
31-May-18	Jun 18 - Aug 18							

Hyder MEINHARDT KL/2014/03 Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway CEDD Dur Construction of SUS Structure at Zone 4 System Works Base Slab_Bay 11 30-Jun-18 063 24-Jun-18 Dismantling of Struts _Bay 11 13-Jul-18 064 10 04-Jul-18 Wall Bay 11 065 09-Aug-18 16-Aug-18 Base Slab Bay 12 Base Slab_Bay 12 18-Jul-18 067 10-Jul-18 Dismantling of Struts Bay 12 068 23-Jul-18 02-Aug-18 069 Wall_Bay 12 24-Aug-18 17-Aug-18 Base Slab_Bay 13 29-Jul-18 071 22-Jul-18 072 Dismantling of Struts _Bay 13 09-Aug-18 03-Aug-18 074 Base Slab bay 14 09-Aug-18 16-Aug-18 075 Dismantling of Struts _Bay 14 26-Aug-18 7 20-Aug-18 Section 4B of the Works- Construction of Subway B (Subject to Excision) Bay 1 & 2 Handover of Portion B K-4B-BAY-3100 Handover of Portion B 31-May-18* Bay 3 & 4 Installation of Sheetpile for Bay K-4B-BAY-6000 Installation of Sheetpile for Bay 3 7 25-Apr-18 A 07-Jun-18 Excavation and Lateral Support works for Bay Excavation and Lateral Support works for Bay 3 K-4B-BAY-6010 11-Jun-18 28-Jun-18 Casting Blinding Layer for Bay 3 K-4B-BAY-6020 Casting Blinding Layer for Bay 3 29-Jun-18 05-Jul-18 Construction of Wall and Top Slab at Bay 3 K-4B-BAY-6040 06-Jul-18 09-Aug-18 Backfilling Works (Bay 3) K-4B-BAY-6050 10-Aug-18 23-Aug-18 Diversi K-4B-BAY-6055 Diversion of temporary road on Bay 3 3 24-Aug-18 27-Aug-18 Installation of Sheetpipe for Bay 4 K-4B-BAY-6060 15 28-Aug-18 13-Sep-18 Section 5 of the Works-Completion of All Landscape Softworks Procurement of plant species 90 31-May-18 28-Aug-18 Section 7 of the Works-Preservation and Protection of Existing Trees Section 7 of the Works-Preservation and Protection of Existing Trees 23-Aug-19 450 04-Jan-16 A





3 MRP Jun 2018 - Aug 2018

Project ID :30 3MRP Jun -Aug 18 Layout : KL201403 3MRP Page 6 of 6

Date Revision Checked Approved 31-May-18 Jun 18 - Aug 18	3 Working Programme						
31-May-18 Jun 18 - Aug 18	Date	Revision	Checked	Approved			
	31-May-18	Jun 18 - Aug 18					

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Fax Hong Kong.

: (852)-24508238 : (852)-24508032 Email : mcl@fugro.com



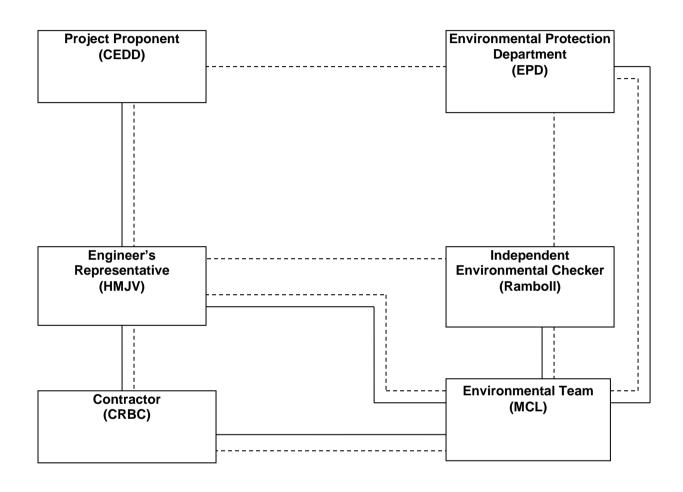
Appendix B

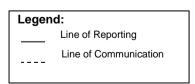
Project Organization Chart

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

: (852)-24508238 : (852)-24508032 Tel 1-15 Kwai Fung Crescent, Kwai Fong, Fax Hong Kong. Email : mcl@fugro.com







Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, : (852)-24508238 : (852)-24508032 Fax Hong Kong. Email : mcl@fugro.com

MateriaLab

Appendix C

Action and Limit Levels for Air Quality and Noise

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

1-15 Kwai Fung Crescent, Kwai Fong, Fax

: (852)-24508238 : (852)-24508032 Hong Kong. Email : mcl@fugro.com



Action and Limit Levels for 24-hr TSP and 1-hr TSP

Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/ m³)
24 br TCD	KTD1a	177	
24-hr TSP	KTD2a	157	260
(µg/m³)	KER1b	172	
*1 br TCD	KTD1a	285	
*1-hr TSP	KTD2a	279	500
(µg/m³)	KER1b	295	

Note:

Action and Limit Levels for Construction Noise, Leq (30min), dB(A)

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	KTD1a KTD2a KER1b	When one documented complaint is received	75 dB(A)

¹⁻hr TSP monitoring should be required in case of complaints.

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, : (852)-24508238 : (852)-24508032 Fax Hong Kong. Email : mcl@fugro.com



Appendix D

Calibration Certificates of Monitoring Equipment



TE-5025A

RECALIBRATION **DUE DATE:**

November 20, 2018

Pertificate o alibration

Calibration Certification Information

Cal. Date: November 20, 2017 Rootsmeter S/N: 438320

Ta: 294 Pa: 756.9 °K

Operator: Jim Tisch

Calibration Model #:

Calibrator S/N: 2456

mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4440	3.2	2.00
2	3	4	1	1.0260	6.4	4.00
3	5	6	1	0.9130	7.8	5.00
4	7	8	1	0.8680	8.8	5.50
5	9	10	1	0.7190	12.7	8.00

	Data Tabulation										
Vstd Qstd		$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)						
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)						
1.0052	0.6961	1.4209	0.9958	0.6896	0.8814						
1.0010	0.9756	2.0095	0.9915	0.9664	1.2465						
0.9991	1.0943	2.2467	0.9897	1.0840	1.3936						
0.9978	1.1495	2.3563	0.9884	1.1387	1.4616						
0.9926	1.3805	2.8418	0.9832	1.3675	1.7628						
	m=	2.07133		m=	1.29703						
QSTD	b=	b= -0.01892		b=	-0.01173						
	r=	0.99995	QA	r=	0.99995						

	Calculation	S		
Vstd=	ΔVoI((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)	
Qstd=	Vstd/∆Time	Qa= Va/ΔTime		
	For subsequent flow rat	e calculatio	ns:	
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: rootsmete	r manometer reading (mm Hg)
Ta: actual abso	olute temperature (°K)
Pa: actual bard	ometric 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

sch Environmental, Inc. 45 South Miami Avenue illage of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

: (852)-24508238 Tel (852)-24508032 Email : mcl@fugro.com.hk



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project: Environmantal Monitoring Works For Contract No. KLN/2015/07

Date of Calibration: 3-Apr-18

Location: KTD2a

Next Calibration Date: 2-Jul-18

Brand:

Tisch

Model:

TE-5170

S/N:

Technician: Toby Wan

CONDITIONS

3838

Sea Level Pressure (hPa):

1013.6 Corrected Pressure (mm Hg): 760

Temperature (°C):

25

Temperature (K):

298

CALIBRATION ORIFICE

Make:

Tisch

Qstd Slope:

2.07013

Model:

TE-5025A

Qstd Intercept:

-0.01892

Calibration Date:

20-Nov-17

Expiry Date:

S/N:

2456

20-Nov-18

CALI	BRA1	LIONS

CALIBRATIONS									
Plate No.	H2O (L)	H2O (R)	H2O	Qstd	ı	IC		LINEAR	
r late No.	(in)	(in)	(in)	(m³/min)	(chart)	(corrected)	F	REGRESSION	
18	6.90	-5.70	12.600	1.724	55.00	55.00	Slope =	33.3531	
13	5.40	-4.20	9.600	1.506	46.00	46.00	Intercept =	-3.7146	
10	4.70	-3.40	8.100	1.384	41.00	41.00	Corr. coeff.:	0.9963	
7	2.90	-1.60	4.500	1.034	31.00	31.00			
5	2.00	-1.00	3.000	0.846	25.00	25.00			

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

FLOW RATE CHART 60.00 50.00 Actual Chart Response (IC) 40.00 30.00 20.00 10.00 0.00 0.000 0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)

CHOI KAM HO Project Consultant Report Date: 3rd April, 2018

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

1-15 Kwai Fung Crescent, Kwai Fong,

Hong Kong.

(852)-24508238 : (852)-24508032 : mcl@fugro.com.hk Fax Email



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project: Environmantal Monitoring Works For Contract No. KLN/2015/07

Date of Calibration: 3-Apr-18

Location: KTD1a

Next Calibration Date: 2-Jul-18

Brand:

Tisch

Technician: Toby Wan

Model:

TE-5170

S/N: 4037

CONDITIONS

Sea Level Pressure (hPa):

1013.6

Corrected Pressure (mm Hg):

760

Temperature (°C):

25

Temperature (K):

298

CALIBRATION ORIFICE

Make:

Tisch

Qstd Slope:

2.07013

Model:

TE-5025A

Qstd Intercept:

-0.01892

Calibration Date:

20-Nov-17

Expiry Date:

S/N:

2456

20-Nov-18

CA	LIB	KAI	IIU	N ₂	
		_		_	

				OALIBI	CATTORIO				
Plate No.	H2O (L)	H2O (R)	H2O	Qstd	1	IC		LINEAR	
i idio ivo.	(in)	(in)	(in)	(m³/min)	(chart)	(corrected)	F	REGRESSION	
18	6.00	-6.10	12.100	1.689	58.00	58.00	Slope =	28.1358	
13	4.80	-4.70	9.500	1.498	55.00	55.00	Intercept =	11.1997	
10	3.60	-3.90	7.500	1.332	48.00	48.00	Corr. coeff.:	0.9947	
7	2.50	-2.70	5.200	1.111	42.00	42.00			
5	1.30	-1.40	2.700	0.803	34.00	34.00			

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

FLOW RATE CHART 70.00 60.00 Actual Chart Response (IC) 50.00 40.00 30.00 20.00 10.00 0.00 0.000 0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)

CHOI KAM HO **Project Consultant** Report Date: 3rd April, 2018

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

(852)-24508238 : (852)-24508032 : mcl@fugro.com.hk Fax Email



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

3482

Project: Environmantal Monitoring Works For Contract No. KLN/2015/07

Date of Calibration: 3-Apr-18

Next Calibration Date: 2-Jul-18

Location: KER1b Brand:

Model:

Tisch

TE-5170

Technician: Toby Wan

CONDITIONS

Sea Level Pressure (hPa):

1013.6

Corrected Pressure (mm Hg):

760

Temperature (°C):

25

Temperature (K):

298

CALIBRATION ORIFICE

Make:

Tisch

S/N:

Qstd Slope:

2.07013

Model:

TE-5025A

Qstd Intercept:

-0.01892

Calibration Date:

20-Nov-17

Expiry Date:

20-Nov-18

S/N:

2456

CALIBRATIONS

Plate No.	H2O (L)	H2O (R)	H2O	Qstd	I	IC		LINEAR	2.5
Trate No.	(in)	(in)	(in)	(m³/min)	(chart)	(corrected)	F	REGRESSION	
18	7.00	-5.70	12.700	1.731	56.00	56.00	Slope =	34.9372	
13	5.70	-4.50	10.200	1.552	49.00	49.00	Intercept =	-4.4008	
10	4.60	-3.30	7.900	1.367	44.00	44.00	Corr. coeff.:	0.9965	
7	3.10	-1.90	5.000	1.089	35.00	35.00			
5	2.20	-1.00	3.200	0.873	25.00	25.00			

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

FLOW RATE CHART 60.00 50.00 Actual Chart Response (IC) 40.00 30.00 20.00 10.00 0.00 0.000 0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)

CHOI KAM HO Project Consultant Report Date: 3rd April, 2018

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



Report no.: 172379CA171674

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: MateriaLab Consultants Ltd.

Address: Room 723 & 725, 7F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services

Details of Unit Under Test, UUT

Description

Sound Level Meter

Manufacturer

Casella

Model No.

Casella (Model no. CEL-63X(meter), CEL-251(microphone), CEL-495(Preamplifier))

Serial No.

1057034 (meter), 01308 (microphone), 002672 (Preamplifier))

Next Calibration Date

30-Jul-2018

Specification Limit

EN 61672: 2003 Type 1

Laboratory Information

Description

B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration:

31-Jul-2017

Ambient Temperature: 22

2 00

Calibration Location:

Calibration Laboratory of MateriaLab

Method Used

By direct comparison

Calibration Results:

Parame	ters	Mean Value (dB)	Specific	cation	Limit(dB)	
	4000Hz	2.5	2.6	to	-0.6	
	2000Hz	0.5	2.8	to	-0.4	
	1000Hz	-1.0	1.1	to	-1.1	
A-weighing frequency	500Hz	-4.5	-1.8	to	-4.6	
response	250Hz	-10.0	-7.2	to	-10.0	
	125Hz	-17.4	-14.6	to	-17.6	
	63Hz	-27.3	-24.7	to	-27.7	
	31.5Hz	-40.0	-37.4	to	-41.4	
Differential level	94dB-104dB	0.0	± 0.6			
linearity	104dB-114dB	0.0	± 0.6			

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighing is fast
- 4. The equipment complies with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Checked by : _____

Date:

Certified by

Date:

Kwok Chi Wa (Assistant Manager)

4-8-2017

** End of Report **

Fugro Development Centre, 5 Lok Yi Street, Tai Lam. Tuen Mun, N.T., Hong Kong.

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Report no.: 172379CA180329

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: MateriaLab Consultants Ltd.

Address: Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project: Calibration Services Details of Unit Under Test, UUT

Description

Sound Level Meter

Manufacturer

Casella

Model No.

Serial No.

Meter Microphone Preamplifier CL63X CE-251 CEL-495 1057055 00995 002317

Next Calibration Date

12-Feb-2019

Specification Limit

EN 61672: 2003 Type 1

Laboratory Information

Description

B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. R-108-1

Date of Calibration:

13-Feb-2018

Ambient Temperature: 22

Calibration Location:

Calibration Laboratory of FTS

Method Used

By direct comparison

Calibration Results:

Parame	ters	Mean Value (dB)	Specific	ation	Limit(dB)	
	4000Hz	0.4	2.6	to	-0.6	
A-weighing frequency	2000Hz	1.0	2.8	to	-0.4	
	1000Hz	0.2	1.1	to	-1.1	
	500Hz	-3.0	-1.8	to	-4.6	
response	250Hz	-8.3	-7.2	to	-10.0	
	125Hz	-15.7	-14.6	to	-17.6	
	63Hz	-25.7	-24.7	to	-27.7	
	31.5Hz	-38.7	-37.4	to	-41.4	
Differential level	94dB-104dB	0.1	± 0.6			
linearity	104dB-114dB	0.0		3		

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighing is fast
- 4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Certified by:

CA-R-297 (22/07/2009)

Chan Chun Wai (Manager)

** End of Report *

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Report no.: 172379CA172109

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: MateriaLab Consultants Ltd.

Address: Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services
Details of Unit Under Test, UUT

Description

Sound Level Meter

Manufacturer

Casella

Model No. Serial No.
 Meter
 Microphone
 Preamplifier

 CL63X
 CE-251
 CEL-495

 4637931
 01993
 003538

Equipment ID

N-13

Next Calibration Date

17-Sep-2018

Specification Limit

EN 61672: 2003 Type 1

Laboratory Information

Description

B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. :

R-108-1

Date of Calibration:

18-Sep-2017

Ambient Temperature: 22

2°C

Calibration Location:

Calibration Laboratory of MateriaLab

Method Used

By direct comparison

Calibration Results:

Parame	ters	Mean Value (dB)	Specific	Limit(dB)	
	4000Hz	1.4	2.6	to	-0.6
	2000Hz	1.3	2.8	to	-0.4
A-weighing	1000Hz	0.0	1.1	to	-1.1
frequency	500Hz	-3.2	-1.8	to	-4.6
	250Hz	-8.8	-7.2	to	-10.0
response	125Hz	-16.3	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
	31.5Hz	-39.3	-37.4	to	-41.4
Differential level	94dB-104dB	0.0		± 0.6	
linearity	104dB-114dB	0.0		± 0.6	

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference range is 30-130dB, reference SPL is 94,104 & 114dB, frequency weighing is A,
- 4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Checked by : _

1

Date: 19-9- 2011

Certified by

__ Date

: 20.902

CA-R-297 (22/07/2009)

Chan Chun Wai (Manager)

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Report no.: 172379CA180671(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client: MateriaLab Consultants Ltd.

Address: Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project: Calibration Services

Details of Unit Under Test, UUT

Description

Sound Calibrator

Manufacturer

Casella (Model no. CEL-120/1)

Serial No.

5230742

Next Calibration Date :

10-Apr-2019

Specification Limit

EN 60942: 2003 Type 1

Laboratory Information

Description

Reference Sound Level Meter

Equipment ID. :

R-119-1

Date of Calibration:

11-Apr-2018

Ambient Temperature: 21 °C

Calibration Location:

Calibration Laboratory of FTS

Method Used

By direct comparison

Calibration Results:

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit (dB)		
94dB	-0.4 dB	±0.4dB		
114dB	0.0 dB			

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.

Checked by:

Date: 16 4 2018

Certified by :

CA-R-297 (22/07/2009)

Chan Chun Wai (Manager)

** End of Report **

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Report no.: 172379CA180517(1) Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client: MateriaLab Consultants Ltd.

Project: Calibration Services

Details of Unit Under Test, UUT

Description

Sound Calibrator

Manufacturer

Casella (Model no. CEL-120/1)

Serial No.

5230758

Equipment ID

FY-SLC-01

Next Calibration Date

11-Mar-2019

Specification Limit

EN 60942: 2003 Type 1

Laboratory Information

Description

Reference Sound level meter

Equipment ID. :

R-119-1

Date of Calibration:

12-Mar-2018

Ambient Temperature: 22

Calibration Location: Calibration Laboratory of FTS

Method Used :

By direct comparison

Calibration Results:

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.4 dB	±0.4dB
114dB	-0.3 dB	10.405

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.

CA-R-297 (22/07/2009)

Date: 13-3-208 Certified by: _____ Date: 13-3-200.

Chan Chun Wai (Manager)

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Kalibrier-Protokoll



Certificate of conformity o Protocole d'étalonnage Certicifato di taratura • Informe de calibración

Gerät / Module type / Modèle / Modelo:

0560 0480

Serien-Nr. / Serial no. /

No. de série / Número de serie:

Segmenttest / Display test /

Testes d'affichage / Test del visualizador:

Tastaturtest / Keyboard test /

Testes de clavier / Test del teclado:

61003846

ok

ok

Messwerte / Measured values / Valeurs mesurées / Valores medidos:

Sollwert /

Toleranz / Reference / Tolerance / Référence / Tolérance / Referencia: Tolerancia:

Istwert / Actual Value /

Valeur réelle / Valor medido:

Druck / Pressure / Pression / Presión

10.000 hPa

± 0.103 hPa

10.000 hPa

19.999 hPa

± 0.203 hPa

20.000 hPa

Temperatur / Temperature / Température / Temperatura (TE1, TE2)

500.0 °C

± 1.3 °C

500.0 °C

500.0 °C

± 1.3 °C

499.9 °C

Absolutdruck / Absolute pressure / Pression absolue / Presión absoluta

927.8 hPa

± 3.0 hPa

927.8 hPa

Datum / Date / Date / Fecha:

Prüfer / Inspector / Vérificateur / Verificador:

20.06.2017

40

Kalibrier-Protokoll

Certificate of conformity • Protocole d'étalonnage Certicifato di taratura • Informe de calibración



Gerät / Module type / Modèle / Modelo:

0628 0143

Serien-Nr. / Serial no. / No. de série / Número de serie:

03216409

Messwerte / Measured values / Valeurs mesurées / Valores medidos:

Sollwert /

Reference / Référence /

Referencia:

Toleranz /

Tolerance / Tolérance /

Tolerance /

Istwert /

Actual Value / Valeur réelle / Valor medido:

Strömung / Velocity / Vitesse d'air / Velocidad

1.00 m/s

± 0.07 m/s

1.01 m/s

3.00 m/s

 $\pm 0.15 \, \text{m/s}$

3.08 m/s

5.00 m/s

 $\pm 0.23 \, \text{m/s}$

5.04 m/s

Temperatur / Temperature / Température / Temperatura (NTC)

21.3 °C

± 0.5 °C

21.0 °C

Absolutdruck / Barometric pressure / Pression d'air / Présion atmosférica

926.5 hPa

± 3.0 hPa

926.4 hPa

Datum / Date / Date / Fecha:

Prüfer / Inspector / Vérificateur / Verificador:

21.06.2017

425

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22 °C

Report No.: 183057CA185180(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF ANEMOMETER

Client Supplied Information

Client: MateriaLab Consultants Ltd.

Project: Calibration Services

Details of Unit Under Test, UUT

Description : Anemometer

Manufacturer : Benetech

Model No. : GM816

Serial No. : 13372555

Equipment ID.: N/A

Next Calibration Date: 08-Jun-2019

Laboratory Information

Details of Reference Equipment -

Description : Reference Anemometer

Equipment ID.: R-101-4

Date of Calibration : 09-

09-Jun-2018 Ambient Temperature :

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct Comparison

Calibration Results:

Reference Reading	UUT Reading	Error
(m/s)	(m/s)	(m/s)
1.96	2.2	0.2
4.04	4.1	0.1
6.05	6.2	0.2
8.02	7.9	-0.1
10.06	9.7	-0.4

Remark:

1. The equipment being used in this calibration is traceable to recognized National Standards.

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MateriaLab

Appendix E

Environmental Monitoring Schedule

Room 723 & 725. 7/F. Block B. Profit Industrial Building,

: (852)-24508238 Tel : (852)-24508032 1-15 Kwai Fung Crescent, Kwai Fong, Fax Hong Kong. Email: mcl@fugro.com



Project: KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the **Southern Part of the Former Runway**

Impact Monitoring Schedule (June 2018)

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

- 1. Monitoring Locations KTD1a: Centre of Excellence in Paediatric (Children's Hospital), KTD2a: G/IC Zone next to Kwun Tong Bypass (Future at Site 3C1), KER1b: Site Boundary at Cheung Yip Street
- 2. TSP Monitoring: 24-hours TSP Monitoring per 6 days, and 3 x 1-hour TSP Monitoring per 6 days (as required in case of complaints)
- 3. Noise Monitoring: Leg (30 min) between 0700 and 1900 hours.

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

Profit Industrial Building, Tel
1-15 Kwai Fung Crescent, Kwai Fong, Fax
Hong Kong. Email

Tel : (852)-24508238 Fax : (852)-24508032 Email : mcl@fugro.com



Project: KL/2014/03 - Kai Tak Development – Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway

Impact Monitoring Schedule (July 2018)

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

- 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition
- 2. Monitoring Locations KTD1a: Centre of Excellence in Paediatric (Children's Hospital), KTD2a: G/IC Zone next to Kwun Tong Bypass (Future at Site 3C1), KER1b: Site Boundary at Cheung Yip Street
- 3. TSP Monitoring: 24-hours TSP Monitoring per 6 days, and 3 x 1-hour TSP Monitoring per 6 days (as required in case of complaints)
- 4. Noise Monitoring: Leq (30 min) between 0700 and 1900 hours.

Room 723 & 725. 7/F. Block B. Profit Industrial Building,

: (852)-24508238 Tel : (852)-24508032 1-15 Kwai Fung Crescent, Kwai Fong, Fax Email: mcl@fugro.com Hong Kong.



Project: KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the **Southern Part of the Former Runway**

Impact Monitoring Schedule (August 2018)

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

- 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition
- 2. Monitoring Locations KTD1a: Centre of Excellence in Paediatric (Children's Hospital), KTD2a: G/IC Zone next to Kwun Tong Bypass (Future at Site 3C1), KER1b: Site Boundary at Cheung Yip Street
- 3. TSP Monitoring: 24-hours TSP Monitoring per 6 days, and 3 x 1-hour TSP Monitoring per 6 days (as required in case of complaints)
- 4. Noise Monitoring: Leq (30 min) between 0700 and 1900 hours.

Room 723 & 725. 7/F. Block B. Profit Industrial Building,

: (852)-24508238 Tel 1-15 Kwai Fung Crescent, Kwai Fong, Fax : (852)-24508032 Email: mcl@fugro.com Hong Kong.



Project: KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the **Southern Part of the Former Runway**

Impact Monitoring Schedule (September 2018)

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

- 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition
- 2. Monitoring Locations KTD1a: Centre of Excellence in Paediatric (Children's Hospital), KTD2a: G/IC Zone next to Kwun Tong Bypass (Future at Site 3C1), KER1b: Site Boundary at Cheung Yip Street
- 3. TSP Monitoring: 24-hours TSP Monitoring per 6 days, and 3 x 1-hour TSP Monitoring per 6 days (as required in case of complaints)
- 4. Noise Monitoring: Leg (30 min) between 0700 and 1900 hours.

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, : (852)-24508238 : (852)-24508032 Fax Hong Kong. Email : mcl@fugro.com



Appendix F

Air Quality Monitoring Data

24-hour TSP Monitoring Result for Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway

KTD1a - Centre of Excellence in Paediatrics (Children's Hospital)

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa	Filter W	5 (5)		0 (0)		iculate Sampling			' o mo/min \		Average flow (m³/min.)	Total volume (m ³⁾	Conc. (ug/m ³)	Action Level	Limit Level
Condition	(14)	(mmHg)	Initial	Final	woight (g)	11110(1110)	Initial	Final	(111 /111111.)	(III ·	(ug/III)	(ug/m^3)	(ug/m ³)					
1-Jun-18	Fine	303.2	757.5	2.6907	2.9020	0.2113	24	1.55	1.57	1.56	2249.5	94						
7-Jun-18	Cloudy	300.3	753.3	2.6929	2.7633	0.0704	24	1.56	1.57	1.56	2251.9	31]					
13-Jun-18	Cloudy	299.6	748.7	2.6606	2.7272	0.0666	24	1.23	1.25	1.24	1787.0	37	177	260				
19-Jun-18	Fine	302.6	753.1	2.6805	2.6969	0.0164	24	1.23	1.25	1.24	1785.0	9	177	200				
25-Jun-18	Fine	301.1	756.7	2.6810	2.7170	0.0360	24	1.24	1.25	1.24	1789.7	20]					
30-Jun-18	Fine	303.4	753.1	2.7158	2.7959	0.0801	24	1.23	1.25	1.24	1783.7	45						
	·	•	•		·		·			•	Min	9						

 Min
 9

 Max
 94

 Average
 39

KTD2a - G/IC Zone next to Kwun Tong Bypass (Future Hospital at Site 3C1)

		tt të itinuii rëng i	-)		,									
Start Date Condition	Air Temperature (K)	Atmospheric Pressure, Pa	Filter W	eight (g)	Particulate weight (g)	Sampling Time(hrs)	(m ³ /r	Rate min.)	Average flow (m ³ /min.)	Total volume (m ³⁾	Conc. (ug/m ³)	Action Level	Limit Level	
	Condition	(14)	(mmHg)	Initial	Final	weight (g)	11110(1110)	Initial	Final	(111 /111111.)	(111	(ug/III)	(ug/m^3)	(ug/m ³)
1-Jun-18	Fine	303.2	757.5	2.6837	2.8080	0.1243	24	1.19	1.20	1.19	1718.7	72		
7-Jun-18	Cloudy	300.3	753.3	2.6851	2.7350	0.0499	24	1.63	1.64	1.63	2352.5	21		
13-Jun-18	Cloudy	299.6	748.7	2.6476	2.7308	0.0832	24	1.62	1.64	1.63	2349.9	35	157	260
19-Jun-18	Fine	302.6	753.1	2.6852	2.7488	0.0636	24	1.55	1.57	1.56	2242.1	28	137	200
25-Jun-18	Fine	301.1	756.7	2.6842	2.7417	0.0575	24	1.63	1.64	1.63	2353.8	24		
30-Jun-18	Fine	303.4	753.1	2.7000	2.7375	0.0375	24	1.25	1.27	1.26	1820.3	21		
•		•	•							•	Min	21		
											Max	72		

KER1b - Site Boundary at Cheung Yip Street

	o Bournaur,	y at officing rip c	71.001											
Start Date Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa	Filter W	Weight (g) Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m³/min.)		Average flow (m ³ /min.)	rage flow Total volume	Conc. (ug/m ³)	Action Level	Limit Level		
	Condition	(14)	(mmHg)	Initial	Final	weight (g)	Time(ins)	Initial	Final	(111 /111111.)	(III ·	(ug/III)	(ug/m ³)	(ug/m ³)
1-Jun-18	Fine	303.2	757.5	2.6765	2.7570	0.0805	24	1.03	1.04	1.03	1488.1	54		
7-Jun-18	Cloudy	300.3	753.3	2.6716	2.6941	0.0225	24	1.03	1.04	1.03	1490.0	15		
13-Jun-18	Cloudy	299.6	748.7	2.6591	2.7031	0.0440	24	1.27	1.29	1.28	1842.4	24	172	260
19-Jun-18	Fine	302.6	753.1	2.6702	2.7420	0.0718	24	1.27	1.29	1.28	1840.1	39	172	200
25-Jun-18	Fine	301.1	756.7	2.6788	2.7079	0.0291	24	1.21	1.23	1.22	1756.8	17		
30-Jun-18	Fine	303.4	753.1	2.6730	2.7381	0.0651	24	1.08	1.10	1.09	1573.5	41		
<u> </u>		·	<u> </u>							·	Min	15		

 Min
 15

 Max
 54

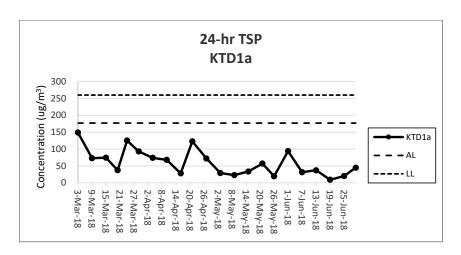
 Average
 32

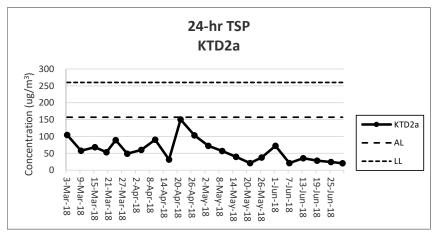
Average

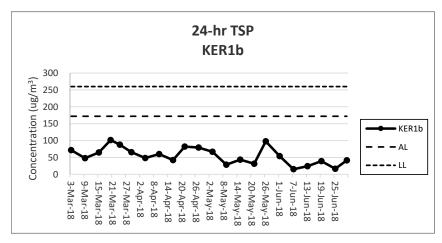
34

Note:

<u>Underline</u>: Exceedance of Action Level <u>Underline and Bold</u>: Exceedance of Limit Level







Note:

- 1) The major activities being carried out on site during the reporting period can be referred to Section 1.3.2.
- 2) The weather conditions during the reporting period can be referred to Appendix K.
- 3) Any other factors which might affect the monitoing results can be referred to Section 2.6.4.
- 4) QA/QC results, calibration results and detection limits can be referred to Appendix D.

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, : (852)-24508238 : (852)-24508032 Fax Hong Kong. Email : mcl@fugro.com



Appendix G

Noise Monitoring Data

Noise Impact Monitoring Result for Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway

KTD 1a: Centre of Excellence in Paediatrics (Children's Hospital)

Date	Start Time	Leq 30min dB(A)	L10 dB(A)	L90 dB(A)	Wind Speed (m/s)	Weather
1-Jun-18	10:23	71	71	66	0.0	Fine
7-Jun-18	11:04	69	72	62	0.0	Cloudy
13-Jun-18	10:09	71	71	70	0.0	Cloudy
19-Jun-18	14:22	73	74	66	0.3	Fine
25-Jun-18	15:01	68	69	65	0.2	Fine
30-Jun-18	9:49	69	70	65	0.0	Fine
	Mov	72				

 Max
 73

 Min
 68

 Limit Level
 75

KTD 2a: G/IC Zone next to Kwun Tong Bypass (Future Hospital at Site 3C1)

75

		Leq 30min	L10	L90	Wind Speed	
Date	Start Time	dB(A)	dB(A)	dB(A)	(m/s)	Weather
1-Jun-18	9:44	60	62	57	0.6	Fine
7-Jun-18	9:40	69	69	60	0.8	Cloudy
13-Jun-18	10:45	60	61	59	0.0	Cloudy
19-Jun-18	13:45	63	64	59	1.9	Fine
25-Jun-18	15:45	58	60	57	1.1	Fine
30-Jun-18	10:31	60	61	57	0.3	Fine
	Max	69				
	Min	58				

KER 1b: Site Boundary at Cheung Yip Street

Limit Level

Date	Start Time	Leq 30min dB(A)	L10 dB(A)	L90 dB(A)	Wind Speed (m/s)	Weather
1-Jun-18	11:09	66	69	61	0.0	Fine
7-Jun-18	11:46	61	62	58	0.6	Cloudy
13-Jun-18	9:30	63	66	61	1.0	Cloudy
19-Jun-18	15:03	63	65	60	0.7	Fine
25-Jun-18	14:06	65	66	61	0.9	Fine
30-Jun-18	8:30	66	67	63	0.0	Fine
	May	66				

 Max
 66

 Min
 61

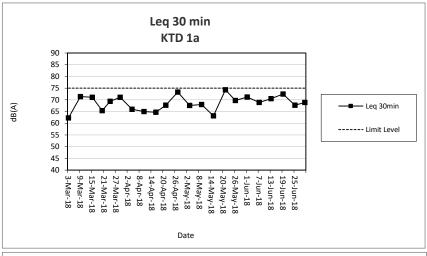
 Limit Level
 75

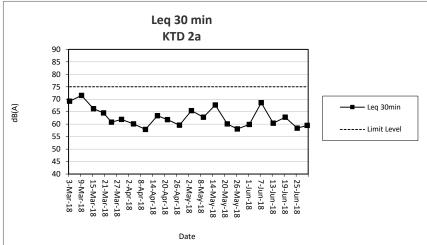
Note:

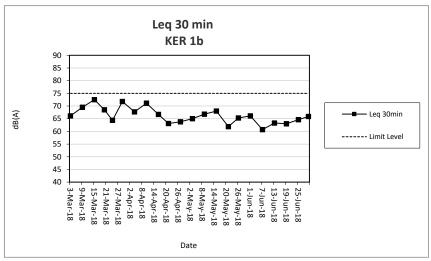
KTD1a: Façade Measurement

KTD2a & KER1b: Free-field measurement (+3dB(A) correction has been applied)

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.







Note:

- 1) The major activities being carried out on site during the reporting period can be referred to Section 1.3.2.
- 2) The weather conditions during the reporting period can be referred to Appendix K.
- 3) Any other factors which might affect the monitoing results can be referred to Section 3.7.2.
- 4) QA/QC results, calibration results and detection limits can be referred to Appendix D.

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Appendix H

Events and Action Plan

Room 723 & 725, 7/F, Block B,

Fax

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Event and Action Plan for Construction Dust Manitoring

	Plan for Construct	ACT		
EVENT	ET	IEC	ER	Contractor
Action Level				•
Exceedance for one sample.	I. Identify sources, investigate the causes of complaint and propose remedial measures. Inform IEC and ER. Repeat measurement to confirm finding;. Increase monitoring frequency	Check monitoring data submitted by the ET. Check the Contractor's working methods.	Notify the Contractor.	Rectify any unacceptable practices. Amend working methods agreed with the ER as appropriate.
Exceedance for two or more consecutive samples.	1. Identify sources. 2. Inform the IEC and ER. 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings. 5. Increase monitoring frequency to daily. 6. Discuss with the IEC, ER and Contractor on remedial action required. 7. If exceedance continues, arrange meeting with the IEC, Contractor and ER. 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET. 2. Check the Contractor's working methods. 3. Discuss with the ET, ER and Contractor on possible remedial measures if required. 4. Advise the ER on the effectiveness of proposed remedial measures if required.	Notify the Contractor. Ensure remedial measures properly implemented.	1. Submit proposals for remedial action to the ER within 3 working days of notification. 2. Implement the agreed proposals. 3. Amend proposal as appropriate
Limit Level	g.			
Exceedance for one sample.	1. Identify sources, investigate causes of exceedance and proposed remedial measures. 2. Inform the IEC, ER, and Contractor. 3. Repeat measurement to confirm finding. 4. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of the Contractor's remedial action and keep the IEC and ER informed of the results.	1. Check monitoring data submitted by the ET. 2. Check the Contractor's working methods. 3. Discuss with the ET, ER and Contractor on possible remedial measures. 4. Advise the ER and ET on the effectiveness of the proposed remedial measures. 5. Supervise the implementation of remedial measures.	Confirm receipt of the notification of exceedance in writing. Notify the Contractor. Ensure remedial measures are properly implemented.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial action to the ER and copy to the ET and IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Amend proposal as appropriate.
Exceedance for two or more consecutive samples	1. Notify the IEC, ER and Contractor. 2. Identify sources. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures with the ER to determine the possible mitigation to be implemented. 6. Arrange meeting with the IEC and ER to	1. Discuss amongst the ER, ET and Contractor on the potential remedial action. 2. Review the Contractor's remedial action whenever necessary to assure their effectiveness and advise the ER and ET accordingly. 3. Supervise the implementation of remedial measures.	Confirm receipt of the notification of exceedance in writing. Notify the Contractor. In consultation with the IEC and ET, agree with the Contractor on the remedial measures to be implemented. Ensure remedial measures are properly implemented. If exceedance	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial action to the ER and copy to the IEC and ET within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problems still not under control. 5. Stop the relevant portion of works as

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EVENT		ACT	ION	
EVENI	ET	IEC	ER	Contractor
	discuss the remedial action to be taken. 7. Assess the effectiveness of the Contractor's remedial action and keep the IEC, EPD and ER informed of the results. 8. If exceedance stops, cease additional monitoring		continues, consider what portion of works is responsible and instruct the Contractor to stop that portion of works until the exceedance is abated.	determined by the ER until the exceedance is abated.

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Event and Action Plan for Noise Impact

EVENT		ACT	TION	
EVENI	ET	IEC	ER	Contractor
Action Level	1. Notify the IEC, ER and Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IEC and Contractor. 4. Discuss jointly with the ER and Contractor and formulate remedial measures. 5. Increase the monitoring frequency to check the mitigation effectiveness	Review the monitoring data submitted by the ET. Review the construction methods and proposed redial measures by the Contractor, and advise the ET and ER if the proposed remedial measures would be sufficient	Notify the Contractor. Require the Contractor to propose remedial measures for implementation if required.	Submit noise mitigation proposals to the ER and copy to the IEC and ET. Implement noise mitigation proposals.
Limit Level	1.Notify the IEC, ER and Contractor. 2.Identify sources. 3.Repeat measurements to confirm findings. 4.Carry out analysis of the Contractor's working procedures with the ER and Contractor to determine possible mitigations to be implemented. 5.Record the causes and action taken for the exceedances. 6.Increase the monitoring frequency. 7.Assess the effectiveness of the Contractor's remedial action with the ER and keep the IEC informed of the results. 8.If exceedance stops, cease additional monitoring	1.Discuss amongst the ER, ET and Contractor on the potential remedial action. 2.Review the Contractor's remedial action whenever necessary to assure their effectiveness and advise the ER accordingly. 3.Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problems. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what portion of work is responsible and instruct the Contractor to stop that portion of works until the exceedance is abated.	1.Take immediate action to avoid further exceedance. 2.Submit proposals for remedial action to the ER and copy to the ET and IEC within 3 working days of notification. 3.Implement the agreed proposals. 4.Resubmit proposals if problems still not under control. 5.Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Room 723 & 725, 7/F, Block B,

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Event and Action Plan for Landscape and Visual Impact

EVENT		ACT	ON			
EVENI	ET	IEC	ER	Contractor		
Non-conformity on one occasion	1. Identify Source 2. Inform the IEC and the ER 3. Discuss remedial actions with the IEC, the ER and the Contractor 4. Monitor remedial actions until rectification has been completed	1. Check report 2. Check the Contractor's working method 3. Discuss with the ET and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures. 5. Check implementation of remedial measures.	Notify Contractor Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake any necessary replacement		
Repeated Non-conformity	1. Identify Source 2. Inform the IEC and the ER 3. Increase monitoring frequency 4. Discuss remedial actions with the IEC, the ER and the Contractor 5. Monitor remedial actions until rectification has been completed 6. If exceedance stops, cease additional monitoring	1. Check monitoring report 2. Check the Contractor's working method 3. Discuss with the ET and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures 5. Supervise implementation of remedial measures.	Notify the Contractor Ensure remedial measures are properly implemented	Amend working methods Rectify damage and undertake any necessary replacement		

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Appendix I

Waste Flow Table

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

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Waste Flow	Table for Ye	ear 2016										
	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	
	(in '000m ³)	(in '000m³)	(in '000m³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	
2016 Jan	0.159	0.101	0.058	Nil	Nil	Nil	Nil	0.023	0.00002	0.0158	0.0335	
2016 Feb	0.291	0.050	0.241	Nil	Nil	Nil	1.34	0.023	0.00002	0.0158	0.0335	
2016 Mar	2.7389	0.0407	0.0662	Nil	2.632	Nil	5.92	0.023	0.00002	0.0158	0.0571	
2016 Apr	4.1718	0.0578	0.462	Nil	3.652	Nil	12.5	0.023	0.00002	0.0158	0.0426	
2016 May	3.592	Nil	0.299	Nil	3.293	Nil	5.23	0.023	0.00002	0.0158	0.0621	
2016 June	4.6035	Nil	0.8555	Nil	3.748	Nil	Nil	0.023	0.00002	0.0158	0.0619	
2016 July	6.155	0.153	0.015	Nil	5.987	Nil	7.84	0.023	0.00002	0.0158	0.0433	
2016 Aug	5.1155	Nil	Nil	Nil	5.1155	Nil	19.93	0.023	Nil	Nil	0.0147	
2016 Sept	7.2267	Nil	Nil	Nil	7.2267	Nil	33.65	0.023	Nil	Nil	0.0103	
2016 Oct	4.6448	Nil	Nil	Nil	4.6448	Nil	13.30	0.023	Nil	Nil	0.0385	
2016 Nov	6.1626	Nil	Nil	Nil	6.1626	Nil	27.06	0.023	Nil	Nil	0.0192	
2016 Dec	6.3522	Nil	Nil	Nil	6.3522	Nil	13.30	0.023	Nil	Nil	0.0121	
Total	51.213	0.4025	1.9967	Nil	48.8138	Nil	140.07	0.276	0.00014	0.1106	0.4288	

Note:

¹⁾ The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

²⁾ Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

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Waste Flow Table for Year 2017											
		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
2017 Jan	4.2300	Nil	Nil	Nil	4.2300	Nil	0.015	0.023	Nil	Nil	0.0109
2017 Feb	3.2128	Nil	Nil	Nil	3.2128	Nil	0.015	0.023	Nil	Nil	0.0096
2017 Mar	9.4759	Nil	Nil	Nil	9.4759	Nil	0.034	0.023	Nil	Nil	0.0162
2017 Apr	4.8827	Nil	Nil	Nil	4.8827	Nil	0.016	0.023	Nil	Nil	0.0062
2017 May	3.0366	Nil	Nil	Nil	3.0366	Nil	0.022	0.023	Nil	Nil	0.0282
2017 Jun	2.5656	Nil	Nil	Nil	2.5656	Nil	41.25	Nil	Nil	Nil	0.0357
2017 Jul	5.5267	Nil	0.7851	Nil	4.7416	Nil	4.01	0.4515	Nil	0.25	0.0364
2017 Aug	11.4734	Nil	0.0276	Nil	11.4458	Nil	7.4	Nil	Nil	Nil	0.0196
2017 Sep	23.9373	Nil	2.6167	Nil	21.3206	Nil	3.52	Nil	Nil	Nil	0.0333
2017 Oct	17.8261	Nil	0.4069	Nil	17.4192	Nil	Nil	Nil	Nil	Nil	0.0156
2017 Nov	5.8834	Nil	0.6664	Nil	5.217	Nil	Nil	Nil	Nil	Nil	0.023
2017 Dec	21.3554	Nil	0.4763	Nil	20.8791	Nil	29.13	Nil	Nil	Nil	0.022
Total	113.4059	Nil	4.9790	Nil	108.4269	Nil	85.412	0.5665	Nil	0.25	0.2567

Note:

¹⁾ The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

²⁾ Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

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Waste Flow	Waste Flow Table for Year 2018										
		Actual Quan	tities of Inert C&I	O Materials Gene	rated Monthly		Actual	Quantities of Non-	inert C&D Wast	tes Generated M	lonthly
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
2018 Jan	10.2340	Nil	Nil	Nil	10.2340	Nil	32.39	Nil	Nil	Nil	0.0161
2018 Feb	6.5256	Nil	Nil	Nil	6.5256	Nil	Nil	Nil	Nil	Nil	0.0235
2018 Mar	28.1995	Nil	Nil	Nil	28.1995	Nil	54.54	Nil	Nil	Nil	0.0190
2018 Apr	11.2165	Nil	Nil	Nil	11.2165	Nil	Nil	Nil	Nil	Nil	0.0270
2018 May	5.6011	Nil	Nil	Nil	5.6011	Nil	Nil	Nil	Nil	Nil	0.0140
2018 Jun	5.8072	Nil	Nil	Nil	5.8072	Nil	93.3	Nil	Nil	Nil	0.0235
2018 Jul											
2018 Aug											
2018 Sep											
2018 Oct											
2018 Nov											
2018 Dec											
Total	67.5839	Nil	Nil	Nil	67.5839	Nil	180.23	Nil	Nil	Nil	0.1232

Note:

¹⁾ The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

²⁾ Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

Room 723 & 725, 7/F, Block B,

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Appendix J

Environmental Mitigation Implementation Schedule (EMIS)

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
Air Quality Measur	res				
New Distributor Ro	oads Serving the Pla	anned KTD			
AEIAR-130/2009 \$3.2	AEIAR 130/2009 EM&A Manual S2.2	8 times daily watering of the work site with active dust emitting activities.	Contractor	All relevant worksites	Implemented
Decommissioning	of the Radar Station	n of the former Kai Tak Airport			1
AEIAR-130/2009 S5.2.19	AEIAR 130/2009 EM&A Manual S4.2.4	The excavation area should be limited to as small in size as possible and backfilled with clean and/or treated soil shortly after excavation work. The exposed excavated area should be covered by the tarpaulin during night time. The top layer soils should be sprayed with fine misting of water immediately before the excavation.	Contractor	All relevant worksites	Not Applicable
Trunk Road T2					•
AEIAR-174/2013 S4.9.2.1	AEIAR-174/2013 EM&A Manual S2.3.1.1	Watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m2 for the respective watering frequency.	Contractor	All relevant worksites	Implemented
		Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression.	Contractor	All relevant worksites	Not Applicable
		8 km per hour is the recommended limit of the speed for vehicles on unpaved site roads.	Contractor	All relevant worksites	Implemented
		Good Site Practices			
AEIAR-130/2009	AEIAR 130/2009	Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should	Contractor	All relevant	Partially

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

1-15 Kwai Fung Crescent, Kwai Fong,

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status	
S3.2, S5.2.19, AEIAR-174/2013	EM&A Manual S2.2, S4.2, AEIAR-	be fully covered by impermeable sheeting to reduce dust emission.		worksites	Implemented	
\$4.9.2.2	174/2013 EM&A Manual S2.3.1.2	Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent watering for particularly dusty construction areas and areas close to ASRs.	Contractor	All relevant worksites	Implemented	
		Misting for the dusty material should be carried out before being loaded into the vehicle. Any vehicle with an open load carrying area should have properly fitted side and tail boards.	Contractor	All relevant worksites	Implemented	
		Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.	Contractor	All relevant worksites	Implemented	
			Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations; The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation.	Contractor	All relevant worksites	Implemented
			The vehicles should be restricted to maximum speed of 10 km per hour. Confined haulage and delivery vehicle to designated roadways insider the site. Onsite unpaved roads should be compacted and kept free of lose materials.	Contractor	All relevant worksites	Implemented
			Vehicle washing facilities should be provided at every vehicle exit point. Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	Contractor	All relevant worksites	Implemented
			The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.			
			Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.	Contractor	All relevant worksites	Implemented
		Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	Contractor	All relevant worksites	Implemented	

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

1-15 Kwai Fung Crescent, Kwai Fong,

Hong Kong.



EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.	Contractor	All relevant worksites	Implemented
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.	Contractor	All relevant worksites	Implemented
		Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.	Contractor	All relevant worksites	Implemented
		Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs.	Contractor	All relevant worksites	Implemented
		Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs.	Contractor	All relevant worksites	Implemented
		Dark smoke			
		Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.	Contractor	All relevant worksites	Implemented
		Plant and equipment should be well maintained to prevent dark smoke emission.	Contractor	All relevant worksites	Implemented
Noise Measures					
Trunk Road T2					
AEIAR-174/2013 \$5.9.2.1	AEIAR-174/2013 EM&A Manual S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: • Concrete lorry mixer • Dump Truck, 5.5 tonne < gross vehicle weight <= 38 tonne • Generator, Super Silenced, 70 dB(A) at 7m	Contractor	All relevant worksites	Implemented

Room 723 & 725, 7/F, Block B, Profit Industrial Building,

1-15 Kwai Fung Crescent, Kwai Fong,

Hong Kong.



EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		Poker, vibratory, Hand-held (electric) Water Pump, Submersible (Electric) Mobile Crane - KOBELCO CKS900 Excavator, wheeled/tracked - HYUNDAI R80CR-9			
		Use of temporary or fixed noise barriers with a surface density of at least 10kg/m² to screen noise from movable and stationary plant.	Contractor	All relevant worksites	Implemented
		Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m ² to screen noise from generally static noisy plant such as air compressors.	Contractor	All relevant worksites	Implemented
		Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	Contractor	All relevant worksites	Implemented
		Good Site Practices			
AEIAR-130/2009 S3.3, S5.3.10,	AEIAR 130/2009 EM&A Manual	Only well-maintained plant should be operated on-site and plant shall be serviced regularly during the construction/ decommissioning program.	Contractor	All relevant worksites	Implemented
AEIAR-174/2013 S5.9.2.1	S2.3, S4.3.2, AEIAR-174/2013 EM&A Manual S3.4.1.1	Silencers or mufflers on construction equipment should be utilized and shall be properly maintained during the construction/ decommissioning program.	Contractor	All relevant worksites	Implemented
	33.4.1.1	Mobile plant, if any, should be sited as far away from NSRs as possible.	Contractor	All relevant worksites	Implemented
		Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or should be throttled down to a minimum.	Contractor	All relevant worksites	Implemented
		Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Contractor	All relevant worksites	Implemented
		Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction/ decommissioning activities.	Contractor	All relevant worksites	Implemented

Room 723 & 725, 7/F, Block B,

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		Use of site hoarding as a noise barrier to screen noise at low level NSRs.	Contractor	All relevant worksites	Implemented
		For the use of hand held percussive breakers (with mass of above 10kg) and portable air compressors (supply air at 500 kPa or above), the noise level of such PME shall comply with a stringent noise emission standard and a noise emission label shall be obtained from the DEP before use at any time in construction site.	Contractor	All relevant worksites	Implemented
		Quiet powered mechanical equipment (PME) shall be used for the construction of the Project.	Contractor	All relevant worksites	Implemented
		Full enclosures shall be used to screen noise from relatively static PMEs (including air compressor, bar bender, concrete pump, generator and water pump) from sensitive receiver(s).	Contractor	All relevant worksites	Implemented
		Movable cantilevered noise barriers shall be used to screen noise from mobile PMEs (including asphalt paver, breaker, excavator and hand-held breaker) from sensitive receiver(s). These movable cantilevered noise barriers shall be located close to the mobile PMEs and shall be moved/adjusted iteratively in step with each movement of the corresponding mobile PMEs in order to maximize their noise reduction effects.	Contractor	All relevant worksites	Implemented
		Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vechicles with proper labels are allowed to be used in specified activities on-site.	Contractor	All relevant worksites	Implemented
Water Quality Mea	asures				
Trunk Road T2					
		Accidental Spillage			
AEIAR-174/2013 S6.4.8.5	AEIAR-174/2013 EM&A Manual S4.2.1.1	All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed; The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only.	Contractor	All relevant worksites	Implemented

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides.	Contractor	All relevant worksites	Implemented
		The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary). An emergency clean up kit shall be readily available where bentonite fluid will be stored or used.	Contractor	All relevant worksites	Implemented
		The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.	Contractor	All relevant worksites	Implemented
AEIAR-174/2013 S6.4.8.8	AEIAR-174/2013 EM&A Manual S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	Contractor	All relevant worksites	Implemented
		Dredging, Reclamation and Filling			
	_	No dredging, reclamation or filling in the marine environment shall be carried out.	Contractor	All relevant worksites	Implemented
Decommissioning	of the Radar Station	n of the former Kai Tak Airport			
		Building Demolition			

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
AEIAR-130/2009 S5.4	AEIAR 130/2009 EM&A Manual S4.4	The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed as far as practicable in order to minimise surface runoff and the chance of erosion.	Contractor	All relevant worksites	Not Applicable
	34.4	There is a need to apply to EPD for a discharge licence under the WPCO for discharging effluent from the construction site. The discharge quality is required to meet the requirements specified in the discharge licence. All the runoff, wastewater or extracted groundwater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. It is anticipated that the wastewater generated from the works areas would be of small quantity. Monitoring of the treated effluent quality from the works areas should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.	Contractor	All relevant worksites	Not Applicable
		General Construction Works			
		Construction Runoff			
AEIAR- 130/2009 S3.4, S5.4/ AEIAR- 174/2013 S6.4.8.1	AEIAR 130/2009 EM&A Manual S2.4, S4.4/ AEIAR- 174/2013 EM&A Manual S4.2.1.1	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include the use of sediment traps and adequate maintenance of drainage systems to prevent flooding and overflow.	Contractor	All relevant worksites	Implemented
		Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Contractor	All relevant worksites	Implemented
		Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the	Contractor	All relevant worksites	Implemented

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.			
		Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m3 capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Contractor	All relevant worksites	Implemented
		Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Contractor	All relevant worksites	Implemented
		Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	Contractor	All relevant worksites	Implemented
		Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.	Contractor	All relevant worksites	Implemented
		Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Contractor	All relevant worksites	Implemented
		An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Contractor	All relevant worksites	Implemented

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		<u>Drainage</u>			
		It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.	Contractor	All relevant worksites	Implemented
		All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Contractor	All relevant worksites	Partially Implemented
		Stormwater Discharges			
		Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes.	Contractor	All relevant worksites	Implemented
		Sewage Effluent			
		Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	Contractor	All relevant worksites	Implemented
		Debris and Litter			
		In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur. Debris and refuse generated on-site should be collected, handled and disposed of	Contractor	All relevant worksites	Implemented

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Hong Kong.



EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		properly to avoid entering into the adjacent harbour waters. Stockpiles of cement and other construction materials should be kept covered when not being used.			
		Accidental Spillage			
		Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to the nearby harbour waters, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ. The bund should be drained of rainwater after a rain event.	Contractor	All relevant worksites	Implemented
		Waste Management Measures			
		Waste Management Plan			
AEIAR-174/2013 S11.4.8.1	AEIAR-174/2013 EM&A Manual S9.2.1.2	Contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction.	Contractor	All relevant worksites	Implemented
		Good Site Practices			
AEIAR-130/2009 S3.5, S5.5	AEIAR 130/2009 EM&A Manual S2.5, S4.5	Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	Contractor	All relevant worksites	Implemented
		Training of site personnel in proper waste management and chemical waste handling procedures.	Contractor	All relevant worksites	Implemented
		Provision of sufficient waste disposal points and regular collection for disposal.	Contractor	All relevant worksites	Implemented
		Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	Contractor	All relevant worksites	Implemented

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	Contractor	All relevant worksites	Implemented
		Waste Reduction Measures			
		Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals.	Contractor	All relevant worksites	Implemented
		Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	Contractor	All relevant worksites	Implemented
		Encourage collection of aluminum cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force.	Contractor	All relevant worksites	Implemented
		Any unused chemicals or those with remaining functional capacity should be recycled.	Contractor	All relevant worksites	Implemented
		Proper storage and site practices to minimize the potential for damage or contamination of construction materials.	Contractor	All relevant worksites	Implemented
		Construction and Demolition Materials			
		Where it is unavoidable to have transient stockpiles of C&D material within the work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible.	Contractor	All relevant worksites	Implemented
		Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Contractor	All relevant worksites	Implemented
		Skip hoist for material transport should be totally enclosed by impervious sheeting.	Contractor	All relevant worksites	Implemented

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.	Contractor	All relevant worksites	Implemented
		The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	Contractor	All relevant worksites	Implemented
		The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	Contractor	All relevant worksites	Implemented
		All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	Contractor	All relevant worksites	Implemented
		The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	Contractor	All relevant worksites	Implemented
		When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.	Contractor	All relevant worksites	Implemented
		Chemical Waste			
		After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Contractor	All relevant worksites	Implemented

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Hong Kong.



EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Construction Phase Implementation Status
		General Refuse			
		General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem.	Contractor	All relevant worksites	Implemented
Land Contamination	on Measures				
		For any excavation works conducted at Radar Station			
		As the risk due to dermal contact with groundwater by site workers is uncertain, it is recommended that personnel protective equipment (PPE) be used by site workers as a mitigation measure.	Contractor	All relevant worksites	Not Applicable
Landscape and Vis	sual Impact				
		New Distributor Roads Serving the Planned KTD			
		Construction Phase			
		All existing trees should be carefully protected during construction.	Contractor	All relevant worksites	Not Applicable
		Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	Contractor	All relevant worksites	Not Applicable
		Control of night-time lighting.	Contractor	All relevant worksites	Not Applicable

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		Erection of decorative screen hoarding.	Contractor	All relevant worksites	Implemented
		Trunk Road T2			
		Construction Phase			
AEIAR-174/2013 S9.9.1.1	AEIAR-174/2013 EM&A Manual S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	Contractor	All relevant worksites	Not Applicable
	37.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	Contractor	All relevant worksites	Not Applicable
		Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Contractor	All relevant worksites	Partially Implemented
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	Contractor	All relevant worksites	Implemented
		Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	Contractor	All relevant worksites	Implemented
		All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	Contractor	All relevant worksites	Not Applicable
General Condition					
		The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrances/exits or at a convenient location for public's information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including any amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same	Contractor	All relevant worksites	Implemented

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EIA Ref	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Who to implement the measure	Location / Timing	Construction Phase Implementation Status
		locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).			

Implementation status: Implemented / Partially Implemented / Not Implemented / Not Applicable

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Appendix K

Weather and Meteorological Conditions during Reporting Month

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	Mean		Air Temperature)	Mean Relative	Total
Date	Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Rainfall (mm)
	-	-	June 2018		-	-
01	1009.9	35.1	30.2	27.8	75	0
02	1010.5	32.8	29.1	27.2	74	Trace
03	1008.4	32.6	29.3	27.3	74	Trace
04	1007.4	31.2	28	26.5	85	12.4
05	1006.8	29.5	27.1	25.9	92	28.2
06	1005	28.4	27.2	26	93	58.3
07	1004.3	28.6	27.3	26	92	47.4
08	1001	30.2	27.8	25.3	88	70.2
09	999.1	30.4	28.6	26.5	79	4.8
10	1000.4	33.4	30	27.4	69	0
11	1002.4	34.3	30.5	28	59	0
12	1002.4	30.1	27.5	25.2	88	39.6
13	998.2	28.5	26.6	25.6	94	109.3
14	998.3	28.6	26.8	25.4	82	1.3
15	1001.8	29.1	27.1	25.7	76	0.2
16	1003.6	31.5	28.4	26.9	70	0
17	1002.3	30.8	28.3	26.2	72	Trace
18	1002	31.9	28.9	27.4	77	Trace
19	1004.1	31.5	29.6	28.6	79	Trace
20	1005.5	32.4	30.2	28.8	78	Trace
21	1005.9	31.6	30	28.7	81	2.6
22	1006.2	30.4	27.8	25.4	87	32.9
23	1006.7	29.7	27	24.4	90	25.6
24	1008.2	32.5	28.7	26.4	84	18.1
25	1008.9	31.3	28.1	26	85	6.2
26	1010.6	33.4	29.2	25.9	80	1.7
27	1010	31.9	29.2	27.4	78	Trace
28	1007	32.6	29.7	27.7	75	0
29	1004.2	32.5	30.1	28.4	76	Trace
30	1009.9	35.1	30.2	27.8	75	0

Source: Hong Kong Observatory – Hong Kong Observatory

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Appendix L

Cumulative statistics on Environmental Complaints, Notifications of Summons and **Successful Prosecution**

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Environmental Complaints Log

Environmental compla					•		
Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Outcome	Date of Reply
20161207_complaint_ c	7 Dec 2016	EPD	Andy Choy (CRBC)	Air	13 Feb 2017	Project- related	13 Feb 2017
20170209_complaint_ c	9 Feb 2017	EPD	Andy Choy (CRBC)	Air	22 Feb2017	Not Project- related	7 Mar 2017
20170502_complaint_ c	2 May 2017	CEDD	Andy Choy (CRBC)	Noise	4 May 2017	Not Valid	22 May 2017
20170716_complaint_ a	16 July 2017	CEDD	HMJV	Water Quality	4 Aug 2017	Not Project- related	4 Aug 2017
20180530_complaint	30 May 2018	EPD	CRBC	Air	9 June 2018	Not Valid	20 June 2018

Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project- to-Date
Air	3	0	3
Noise	1	0	1
Water	1	0	1
Waste	0	0	0
Total	0	0	0

Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project- to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Notification of Environmental Complaints

To: China Road and Bridge Co.

Kai Tak Development- Strage 3 Infrastructure Works for Developments at

the Southern parts of the Former Runway

CEDD Contract No.: KL/2014/03

Attn.: Calvin So Phone: 9724 6254 Email: calvin.so@crbc.com.hk Fax: 2283 1689

cc: CEDD

Attn: Ms. Inness CHAN Phone: 35792454
Email: fpchan@cedd.gov.hk Fax: 35794516

EPD ref.: 18-13537

Dear Sirs,

The EPD received an environmental complaint from public. Please take necessary actions to avoid causing environmental nuisance. If you need further information, please contact me (2117 7572) or our Mr. Wong at 2117 7580.

Date of Complaint received: 30 May 2018

Details of Complaint:

- Complainant quoted some large stockpiles (位於國際展貿中心西南方,啟福道與承昌道之間的地盤) were found uncovered and dust emission was observed during excavation.

Advice:

- Comply with APCO (Construction Dust) Regulation is a must.
- Please strengthen the dust suppression measures during your construction works.

Date of notification: 08 June 2018

Environmental Protection Department
Regional Office (East)
Will KWOK, SI[RE]52

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Investigation Report for the Complaint Received on 30 May 2018

Reference No.:	20180530_complaint
Project:	Contract KL/2014/03 – Kai Tak Development – Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway
Date of Complaint:	30 May 2018
Background:	A complaint received on 30 May 2018 was referred from EPD regarding some large stockpiles were found uncovered and dust emission was observed during excavation (the site between Kai Fuk Road and Shing Cheong Road, Southwest of Kowloon Bay International Trade & Exhibition Center).
	The notification of complaint was received by ET on 9 June 2018.
Action taken during the investigation and the investigation results	 Joint site inspection was carried out by ET, HMJV and CRBC on 31 May 2018, by ET, IEC, HMJV and CRBC on 7 and 14 June 2018. It was observed that: Open stockpiles of construction materials at Portion I were covered with impermeable sheeting and kept moist to prevent the dust emission; Hydroseeding was provided and developed on the surface of the stockpiling materials to protect the soil surface to reduce dust emission; No dust emission was observed during excavation.
Conclusion	The complaint received on 30 May 2018 is not valid.

Prepared by: Janet Yu Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

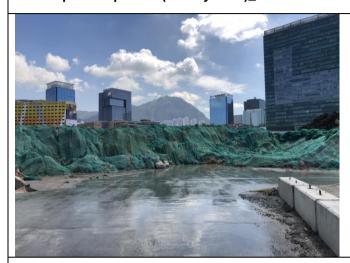
Date: 19 June 2018

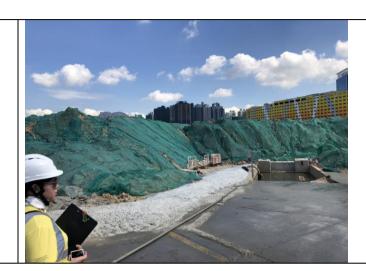
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Site inspection photos (31 May 2018)_Portion I





Site inspection photos (7 June 2018)_Portion I





Site inspection photos (14 June 2018)_Portion I





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Site inspection photos (14 June 2018)_Portion K



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Appendix M

Summary of Site Audit in the Reporting Month

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Summary of Site Audit in the Reporting Month

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	21 June 2018	Unused construction materials and construction wastes should be removed or covered properly (Zone 1 and Zone 2).	The item was rectified by the Contractor and inspected on 28 June 2018.
Noise		NA	
Water Quality	14 June 2018	Contractor was reminded that the surrounding of discharge point be kept clear of silt, dusty or muddy materials (Portion I).	The item was rectified by the Contractor and inspected on 21 June 2018.
Chemical and Waste Management	21 June 2018	Unused construction materials and construction wastes should be removed or covered properly (Zone 1 and Zone 2).	The item was rectified by the Contractor and inspected on 28 June 2018.
Land Contamination		NA	
Landscape and Visual Impact	21 June 2018	Unused construction materials and construction wastes should be removed or covered properly (Zone 1 and Zone 2).	The item was rectified by the Contractor and inspected on 28 June 2018.
General Condition		NA	

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Fax Hong Kong..

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Appendix N

Outstanding Issues and Deficiencies

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong,

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Summary of Outstanding Issues and Deficiencies in the Reporting Month

Parameters	Outstanding Issues	Deficiencies
Air Quality	NA	
Noise	NA	
Water Quality	NA	
Chemical and Waste Management	NA	Any items of deficiencies can be referred to Appendix M .
Land Contamination	NA	
Landscape and Visual Impact	NA	
General Condition	NA	
Others	NA	