Civil Engineering and Development Department

EP-337/2009 - New Distributor Roads Serving the Planned KTD

Contract No. KL/2012/02 Kai Tak Development –Stage 3A Infrastructure at Former North Apron Area

Monthly EM&A Report

July 2016

(version 1.0)

Approved By	(Environmental Team Leader)
REMARKS:	

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

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EXECUTIVE SUMMARY

Introduction

- This is the 34th Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2012/02 - Kai Tak Development – Stage 3A Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises one Schedule 2 designated project (DP), namely the new distributor road D1 serving the planned KTD. The DP is part of the designated project under Environmental Permit (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted from 1 – 31 July 2016.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in Table I (see Figure 2 and 3 for their locations).

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations
Air Quality Monitoring Stations		
AM1 - Rhythm Garden	No	AM1(B) - Contractor Site Office (KL/2012/02)
AM2 - Lee Kau Yan Memorial School	Yes	N/A
AM6 – Site 1B4 (Planned)	N/A	
Noise Monitoring Stations		
M3 - Cognitio College	Yes	N/A
M4 - Lee Kau Yan Memorial School	Yes	N/A
M9 – Tak Long Estate	Yes	N/A
M10 – Site 1B4 (Planned)		N/A

 Table I – Air Quality and Noise Monitoring Stations for this Project

- 3. According to the Environmental Monitoring and Audit Manual (EM&A Manual) of the Kai Tak Development (KTD) Schedule 3 Environmental Impact Assessment (EIA) Report, the impact monitoring at the designated monitoring stations as required in KTD EM&A Manual under the EP, have been conducted in Contract No. KLN/2013/16 – Environmental Monitoring Works for Kai Tak Development under Schedule 3 of KTD, which is on-going starting from December 2010. The impact monitoring data under Contract No. KLN/2013/16 will be adopted for the Project. Therefore, this report presents the air quality and noise monitoring works extracted from Contract No. KLN/2013/16.
- 4. The major site activities undertaken in the reporting month included:
 - Site Clearance;
 - RC works for VT1 at Portion G;
 - Drainage works for connection to box culvert (KTOB);

- RC works for VT1 at CH260 to Ch300;
- Landscaping Work at Portion F2;
- Road and drainage works at Sze Mei Street and Luk Hop Street;
- Condition survey and monitoring survey;
- RC works for VT1 at CH 335 to CH380;
- Footpath construction at Sam Chuk Street and Tsat Po Street; and
- ELS works for SW3 at San Po Kong.

Environmental Monitoring Works

- 5. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 6. Summary of the non-compliance in the reporting month for the Project is tabulated in Table II.

Davamatar		No. of Project-related Exceedance		
Parameter	Act	ion Level	Limit Level	Action Taken
1-hr TSP		0	0	N/A
24-hr TSP		0	0	N/A
Noise		0	0	N/A

 Table II
 Non-compliance Recorded for the Project in the Reporting Month

1-hour & 24-hour TSP Monitoring

7. All 1-hour & 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

- 9. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, EP-337/2009 issued on 23 April 2009.
- 10. Registration of Chemical Waste Producer (License: 5213-286-K3022-04).
- 11. Water Discharge License (License No.: WT00016873-2013 and WT00016723-2013).
- 12. Construction Noise Permit (License No.: GW-RE0029-16, GW-RE0032-16, GW-RE0138-16, GW-RE0655-16, GW-RE0646-16 & GW-RE0648-16).

Key Information in the Reporting Month

13. Summary of key information in the reporting month is tabulated in Table III.

Table III Summary Table for Key information in the Reporting Month					
Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Table III Summary Table for Key Information in the Reporting Month

Future Key Issues

14. The future key environmental issues in the coming month include:

- Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
- Water spraying for dust generating activity and on haul road;
- Proper storage of construction materials on site;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Accumulation of general and construction waste on site;
- Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
- Wastewater and runoff discharge from site;
- Regular removal of silt, mud and sand along u-channels and sedimentation tanks; and
- Review and implementation of temporary drainage system for the surface runoff.

1. INTRODUCTION

Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, 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. It covers a land area of about 328 hectares. Stage 3A Infrastructure at Former North Apron Area is one of the construction stages of KTD. It contains one Schedule 2 DP including new distributor roads serving the planned KTD. The general layout of the Project is shown in **Figure 1**.
- 1.2 One Environmental Permit (EP) No. EP-337/2009 was also issued on 23 April 2009 for new distributor roads serving the planned KTD to Civil Engineering and Development Department as the Permit Holder.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4 Cinotech Consultants Limited (Cinotech) was commissioned by Build King Construction Ltd. (the Contractor) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2012/02 – Stage 3A Infrastructure at Former North Apron Area. The construction work under KL/2012/02 comprises the construction of part of the Road D1 under the EP (EP-337/2009).
- 1.5 Cinotech Consultants Limited was commissioned by Build King Construction Ltd. To undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of this Contract was on 24^{th} October 2013 for Road D1. This is the 34^{th} Monthly EM&A report summarizing the EM&A works for the Project from 1 31 July 2016.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Engineer and the Engineer's Representative (ER) Ove Arup & Partners (ARUP).
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) AnewR Consulting Limited (AnewR).
 - Contractor Build King Construction Ltd. (Build King).

Table 1.1	Ke	ey Project Contacts			
Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Mike Cho / Mr. Thomas Fu	Engineer	2301 1465 / 2301 1473	2301 1277
ARUP	Engineer's Representative	Mr. Gary Cheung Ms. Gloria Kwok	SRE RE	2716 0122	2716 0232
		Dr. Priscilla Choy	Environmental Team Leader	2151 2089	
Cinotech	Environmental Team	Ms. Ivy Tam	Project Coordinator and Audit Team Leader	2151 2090	3107 1388
AnewR	Independent Environmental Checker	Mr. Adi Lee	Independent Environmental Checker	2618 2836	3007 8648
Build King	Contractor	Mr. Osbert Sit	Project Manager		

1.7 The key contacts of the Project are shown in **Table 1.1**.

Construction Activities undertaken during the Reporting Month

- 1.8 The site activities undertaken in the reporting month included:
 - Site Clearance;
 - RC works for VT1 at Portion G;
 - Drainage works for connection to box culvert (KTOB);
 - RC works for VT1 at CH260 to Ch300;
 - Landscaping Work at Portion F2;
 - Road and drainage works at Sze Mei Street and Luk Hop Street;
 - Condition survey and monitoring survey;
 - RC works for VT1 at CH 335 to CH380;
 - Footpath construction at Sam Chuk Street and Tsat Po Street; and
 - ELS works for SW3 at San Po Kong.
- 1.9 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in Table 1.2.

Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier;

Well maintain the drainage system to
prevent the spillage of wastewater during
heavy rainfall;
Provide sufficient mitigation measures as
recommended in Approved EIA
Report/Lease requirement.

Summary of EM&A Requirements

- 1.10 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.12 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality and noise levels and audit works for the Project from 1 31 July 2016.

2. AIR QUALITY

Monitoring Requirements

2.1 According to EM&A Manual under the EP, 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Three designated monitoring stations were selected for air quality monitoring programme. Impact dust monitoring was conducted at two air quality monitoring stations, Contractor Site Office (KL/2012/02) AM1(B), Lee Kau Yan Memorial School (AM2) in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Monitoring Stations Locations		Location of Measurement	
AM1(B)	Contractor Site Office (KL/2012/02)	Ground Floor Area	
AM2 Lee Kau Yan Memorial School		Rooftop (about 8/F) Area	
#AM6	PA 15	Site 1B4 (Planned)	

Table 2.1 Locations for Air Quality Monitoring

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Monitoring Equipment

2.3 Table 2.2 summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix B**.

Equipment	Model and Make	Quantity
Calibrator	TISCH TE-5025A	1
1-hour TSP Dust Meter	Laser Dust Monitor – Model LD-3, LD-3B	5
HVS Sampler	GMWS 2310 c/w of TSP sampling inlet	2
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1

Monitoring Parameters, Frequency and Duration

2.4 Table 2.3 summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting

month is shown in **Appendix D**.

Table 2.3	Impact Dust Monitoring Parameters, Frequency and Durat	ion

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

1-hour TSP Monitoring

(Equipment: Sibata; Model no. LD-3, LD-3B)

Measuring Procedures

- 2.5 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:
 - Pull up the air sampling inlet cover
 - Change the Mode 0 to BG with 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

Maintenance/Calibration

2.6 The following maintenance/calibration was required for the direct dust meters:

Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

2.7 High volume (HVS) samplers (Model GMWS-2310 Accu-Vol) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

Operating/Analytical Procedures

- 2.8 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers

against gusty wind.

- No two samplers were placed less than 2 meters apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
- No furnaces or incineration flues were nearby.
- Airflow around the sampler was unrestricted.
- The sampler was more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.9 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.10 For TSP sampling, fiberglass filters have a collection efficiency of > 99% for particles of $0.3\mu m$ diameter were used.
- 2.11 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.12 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.13 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 2.14 The shelter lid was closed and secured with the aluminum strip.
- 2.15 The timer was then programmed. Information was 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).
- 2.16 After sampling, the filter was removed and sent to the HOKLAS laboratory (Wellab Ltd.) for weighing. The elapsed time was also recorded.

2.17 Before weighing, all filters were 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 $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 2.18 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

- 2.19 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.20 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21 The air temperature, precipitation and the relative humidity data was obtained from Hong Kong Observatory where the wind speed and wind direction were recorded by the installed Wind Anemometer set at rooftop (about 8/F) Lee Kau Yan Memorial School. The location is shown in **Figure 4**. This weather information for the reporting month is summarized in **Appendix C.**
- 2.22 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.
- 2.23 The summary of exceedance record in reporting month is shown in **Appendix H**. No exceedance was recorded for the air quality monitoring.
- 2.24 According to our field observations, the major dust source identified at the designated air quality monitoring stations are as follows:

Station	Major Dust Source
AM1(B) – Contractor Site Office (KL/2012/02)	Road Traffic Dust
	Exposed site area and open stockpiles
	Site vehicle movement
AM2 – Lee Kau Yan Memorial School	Road Traffic Dust
	Exposed site area and open stockpiles
	Excavation works

2.25 Table 2.4 shows the summary of air quality monitoring results during the reporting month.

Parameter	Date	Concentration (µg/m3)	Action Level, μg/m3	Limit Level, µg/m3
AM1(B) – Contractor Site Off	ice (KL/2012/02)			
	6-Jul-16	110.5		
	6-Jul-16	112.4	_	
	6-Jul-16	113.3		
	12-Jul-16	64.1		
	12-Jul-16	60.0		
	12-Jul-16	63.1		
	18-Jul-16	80.6		
1-hr TSP	18-Jul-16	75.7	342	500
	18-Jul-16	75.5		
	22-Jul-16	54.8		
	22-Jul-16	55.5		
	22-Jul-16	56.6		
	28-Jul-16	133.4		
	28-Jul-16	128.0		
	28-Jul-16	131.5		
	07-Jul-16	64.7		
	11-Jul-16	36.2		
24-hr TSP	15-Jul-16	30.3	159	260
	21-Jul-16	27.4		
	27-Jul-16	44.2		
AM2 – Lee Kau Yan Memoria				
	6-Jul-16	108.2		
	6-Jul-16	104.7		
	6-Jul-16	107.1		
	12-Jul-16	55.9		
	12-Jul-16	51.1		
	12-Jul-16	51.8		
	18-Jul-16	82.8		
1-hr TSP	18-Jul-16	81.1	346	500
	18-Jul-16	80.3		
	22-Jul-16	51.2		
	22-Jul-16	50.2		
	22-Jul-16	51.5		
	28-Jul-16	128.8		
	28-Jul-16	132.5		
	28-Jul-16	138.8		
	07-Jul-16	34.3		
	11-Jul-16	31.5		
24-hr TSP	15-Jul-16	49.0	157	260
	21-Jul-16	23.9	_	
	27-Jul-16	37.6		

Table 2.4 Summary Table of Air Quality Monitoring Results during the reporting month

3. NOISE

Monitoring Requirements

3.1 According to EM&A Manuals under the EP, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Four designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at three designated monitoring stations (M3, M4, M9). Figure 3 shows the locations of these stations.

Monitoring Stations	Locations	Location of Measurement
M3	Cognitio College	Rooftop (about 6/F) Area
M4	Lee Kau Yan Memorial School	Rooftop (about 7/F) Area
M9	Tak Long Estate	Car Park Building (about 2/F)
#M10	Site 1B4 (Planned)	-

Table 3.1Noise Monitoring Stations

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Monitoring Equipment

3.3 **Table 3.2** summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	SVAN 955 & 957	7
Calibrator	SVAN 30A, B&K4231	6

Monitoring Parameters, Frequency and Duration

3.4 Table 3.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Monitoring Stations	Parameter	Period	Frequency	Measurement
M3 M4 M9	L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A) L _{eq} (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting : A
 - time weighting : Fast
 - time measurement : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was 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.

Maintenance and Calibration

- 3.5 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7 Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 3.8 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 3.9 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.4**.
- 3.10 Noise monitoring results and graphical presentations are shown in Appendix G.

3.11 The major noise source identified at the designated noise monitoring stations are as follows:

Monitoring Stations	Locations	Major Noise Source
M3	Cognitio College	Traffic Noise Daily school activities
M4	Lee Kau Yan Memorial School	Traffic Noise Site vehicle movement Excavation works Piling works Daily school activities
M9	Tak Long Estate	Traffic Noise Construction works

Table 3.4 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)	
M3	76.3/78.6 ⁽¹⁾ (at 0700 – 1900 hrs on normal weekdays) /	70* (at 0700 – 1900 hrs on	
M4	76.7 (at 0700 – 1900 hrs on normal weekdays)	normal weekdays)	
M9	59.9 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)	

(*) Noise Limit Level is 65 dB(A) during school examination periods.

Note (1): The baseline noise review report submitted under KLN/2013/16 for M3 was approved by EPD on 23rd August 2013. (Baseline Level was found to be 78.6 dB(A)at Rooftop of Cognitio College)

Table 3.5	le 3.5 Summary Table of Noise Monitoring Results during the Reporting Month			
Date	Measured Noise Level, Leq(30min) dB (A)	Baseline Level dB (A)	Construction Noise Level ⁽¹⁾ : Leq(30min) dB (A)	
M3 – Cognitio	College			
		Background Noise ⁽²⁾		
6-Jul-16	77.6	78.2	77.6 Measured \leq Background	
12-Jul-16	77.4	76.6	69.7	
18-Jul-16	77.2	76.8	66.6	
28-Jul-16	76.5	77.8	76.5 Measured \leq Background	
M4 – Lee Kau	Yan Memorial School			
6-Jul-16	74.5		74.5 Measured \leq Baseline	
12-Jul-16	75.4		75.4 Measured \leq Baseline	
18-Jul-16	74.7	76.7	74.7 Measured \leq Baseline	
28-Jul-16	74.3		74.3 Measured \leq Baseline	
M9 – Tak Long Estate				
5-Jul-16	60.3		49.7	
11-Jul-16	60.1	59.9	46.6	
21-Jul-16	59.8		59.8 Measured \leq Baseline	
27-Jul-16	58.5		58.5 Measured \leq Baseline	

Table 3.5	Summary	Table of Noise	• Monitoring	Results duri	ng the Re	porting Month

Note (1) The noise level due to the construction work (CNL) was calculated by the following formula:

 $CNL = 10 \log (10^{MNL/10} - 10^{BNL/10})$

Remarks: MNL = Measured Noise Level BNL = Baseline Noise Level

(2): The background Noise Level was recorded during the Lunch Hour of Construction Site (i.e. 12:00-13:00) and to be used as the referencing value for compliance checking for Noise Action and Limit Level.

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 The EM&A data was compared with the EIA predictions as summarized in 4.1 to 4.3.

Table 4.1 Comparison of 1-in 151 data with EIA predictions				
Station	Predicted 1-hr TSP conc.			
	Scenario1 (Mid 2009 to Mid 2013), μg/m3	Scenario2 (Mid 2013 to Late 2016), μg/m3	Reporting Month (Jul 16), μg/m3	
AM1(B) – Contractor Site Office of KL/2008/09	192	298	87.7	
AM 2 – Lee Kau Yan Memorial School	290	312	85.1	

Table 4.1Comparison of 1-hr TSP data with EIA predictions

Table 4.2Comparison of 24-hr TSP data with EIA predictions

Station	Predicted 24-hr TSP conc.			
	Scenario1 (Mid 2009 to Mid 2013), μg/m3	Scenario2 (Mid 2013 to Late 2016), μg/m3	Reporting Month (Jul 16), μg/m3	
AM1(B) – Contractor Site Office of KL/2008/09	121	156	40.6	
AM2 – Lee Kau Yan Memorial School	145	169	35.2	

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (Leq (30min) dB(A))	Reporting Month (Jul 16), Leq (30min) dB(A)
M3 – Cognitio College	47 – 75	$66.6 - 77.6^{(1)}$
M4 – Lee Kau Yan Memorial School	47 – 74	$74.3 - 75.4^{(2)}$
M9 – Tak Long Estate	Not Predicted in EIA Report	46.6 - 59.8

Remark:

(1) Since the background noise level recorded during 12:00 to 13:00 was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

(2) Since the baseline noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

- 4.2 The 1-hour TSP concentrations in the reporting month were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3 The 24-hour TSP concentrations in the reporting month were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.

4.4 Mitigated construction noise levels at M9 were not predicted in EIA Report. The noise monitoring results in the reporting month at M3 & M4 were not within the range of predicted mitigated construction noise levels in the EIA report. For M3, please refer to remark in Table 4.3. The noise data at M4 exceeds the prediction of mitigated scenario in EIA report but did not exceed the baseline level.

5. LANDSCAPE AND VISUAL

Monitoring Requirements

5.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

Results and Observations

- 5.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix J** shall be performed.

6. ENVIRONMENTAL AUDIT

Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 6.2 Site audits were conducted on 6th, 13th, 20th and 26th July 2016 in the reporting month. IEC site inspection was conducted on 26th July 2016. No non-compliance was observed during the site audits.

Review of Environmental Monitoring Procedures

6.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- 1. The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- 2. Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

6.4 All permits/licenses obtained for the Project are summarized in Table 6.1.

Table 6.1 Summary of Environmental Licensing and Permit Status					
Permit No.	Valid Period		Details	States a	
Permit No.	From	To	Details	Status	
Environmental Per	Environmental Permit (EP)				
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid	
Effluent Discharge Li	icense	•			
WT00016873-2013	-	31/08/18	Wastewater from the construction site	Valid	
WT00016723-2013	-	31/08/18	including contaminated surface run-off	Valid	
Registration of Chem	ical Waste F	Producer			
5213-286-K3022-04	-	N/A	Chemical Waste Types: Spent lubricating oil, Soil contaminated with lubricating oil, Spent battery containing heavy metals, Surplus paint, Spend solvent, Spend alkali and acid	Valid	
Construction Noise P	ermit (CNP)				
GW-RE0029-16	26/01/16	25/07/16		Valid until 25/07/16	
GW-RE0032-16	26/01/16	25/07/16	Construction Noise Permit for the use of	Valid until 25/07/16	
GW-RE0138-16	15/03/16	14/09/16	powered mechanical equipment for carrying out construction work other than	Valid	
GW-RE0655-16	09/07/16	18/09/16	percussive pilling and performing	Valid	
GW-RE0646-16	14/09/16	13/03/27	prescribed construction work. Will on		
GW-RE0648-16	25/07/16	24/01/17		Valid	

Status of Waste Management

- 6.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.
- In respect of the dump truck cover, the Contractor is advised to take record photos and 6.6 inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

6.7 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 6.2.

Table 6.2 Observations and Recommendations of Site Inspections				
Parameters	Date	Observations and Recommendations	Follow-up	
Water Quality	20 July 2016	<u>Reminder</u> : The mud trail was observed near the tunnel access and CLP. The Contractor was reminded to clear the silt/mud properly and regularly.	Rectification/improvement was observed during the follow-up audit session.	
	20 July 2016	<u>Reminder:</u> Properly clear the silt/sediment in the sedimentation tank at SW3 Pump House.	Rectification/improvement was observed during the follow-up audit session.	
20 July 2016 <i>Air Quality</i> 26 July 2016		<u>Reminder</u> : The mud trail was observed near the tunnel access and CLP. The Contractor was reminded to clear the silt/mud properly and regularly.	Rectification/improvement was observed during the follow-up audit session.	
		<u>Reminder:</u> The stockpiles of dusty materials should be covered by impervious material to prevent the dust emission at Luk Hop Street, near Prince Edward Road East, CLP and the RE's site office next to Concorde Road.	Rectification/improvement was observed during the follow-up audit session.	
Noise				
Waste/ Chemical Management	26 July 2016	<u>Reminder</u> : The chemical containers should be provided with the drip tray in the site area of VT1.	Follow up action will be reported in next reporting month.	
Landscape and Visual				
Permits/ Licenses				

Table 6.2Observations and Recommendations of Site Inspections

Summary of Mitigation Measures Implemented

6.8 The monthly IEC audit was carried out on 26th July 2016, the observations were recorded and they are presented as follows:

Reminders:

- The Contractor was reminded to provide tarpaulin sheets to the stockpiles of dusty material on the site area near Luk Hop Street, CLP, site office and Prince Edward Roar East.
- The Contractor was reminded to provide drip tray for the chemical container inside VT1.

Follow up of last observation:

- Stockpile of dusty material was removed from site.
- 6.9 An updated summary of the EMIS is provided in **Appendix K**.

Implementation Status of Event Action Plans

6.10 The Event Action Plans for air quality, noise and landscape and visual are presented in Appendix J.

1-hr TSP Monitoring

6.11 No Action/Limit Level exceedance was recorded in the reporting month.

24-hr TSP Monitoring

6.12 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

6.13 No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.14 No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.15 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

7. FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Site Clearance for all possessed portion;
 - Condition survey and monitoring survey;
 - Sheet piling and earthworks for VT1;
 - RC works for VT1 at CH260 to Ch300;
 - RC works for VT1 at Ch380 to Ch500;
 - PERE Stage 5A works;
 - Excavation for VT1 at Portion G, C and B6;
 - Sheet piling for SW2 and SW3;
 - RC works for VT1 at Portion G; and
 - RC works for VT1 at Ch300 to Ch350.

Key Issues for the Coming Month

- 7.2 Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site.
- 7.3 The tentative program of major site activities and the impact prediction and control measures for the coming two months, i.e. August 2016 and September 2016 are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
	Air quality impact (dust) Water quality	 a) Frequent watering of haul road and unpaved/exposed areas; b) Frequent watering or covering stockpiles with tarpaulin or similar means; and c) Watering of any earth moving activities. d) Diversion of the collected effluent to de-silting facilities
As mentioned in Section 7.1	impact (surface run-off)	 for treatment prior to discharge to public storm water drains; e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and g) Provision of measures to prevent discharge into the stream.
	Noise Impact	 h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; i) Controlling the number of plants use on site; j) Regular maintenance of machines; and k) Use of acoustic barriers if necessary.

Monitoring Schedule for the Next Month

7.4 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

8. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

<u>1-hr TSP Monitoring</u>

8.2 All 1-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hr TSP Monitoring

8.3 All 24-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8.4 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Landscape and visual

8.5 No non-compliance was recorded in the reporting month.

Complaint and Prosecution

- 8.6 No environmental complaints and environmental prosecution were received in the reporting month.
- 8.7 No environmental prosecution was received in the reporting month.

Recommendations

8.8 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water quality

- To clear the silt/mud near the access road properly and regularly on the site; and
- To clear the silt/sediment in the sedimentation tank on the site.

Air quality

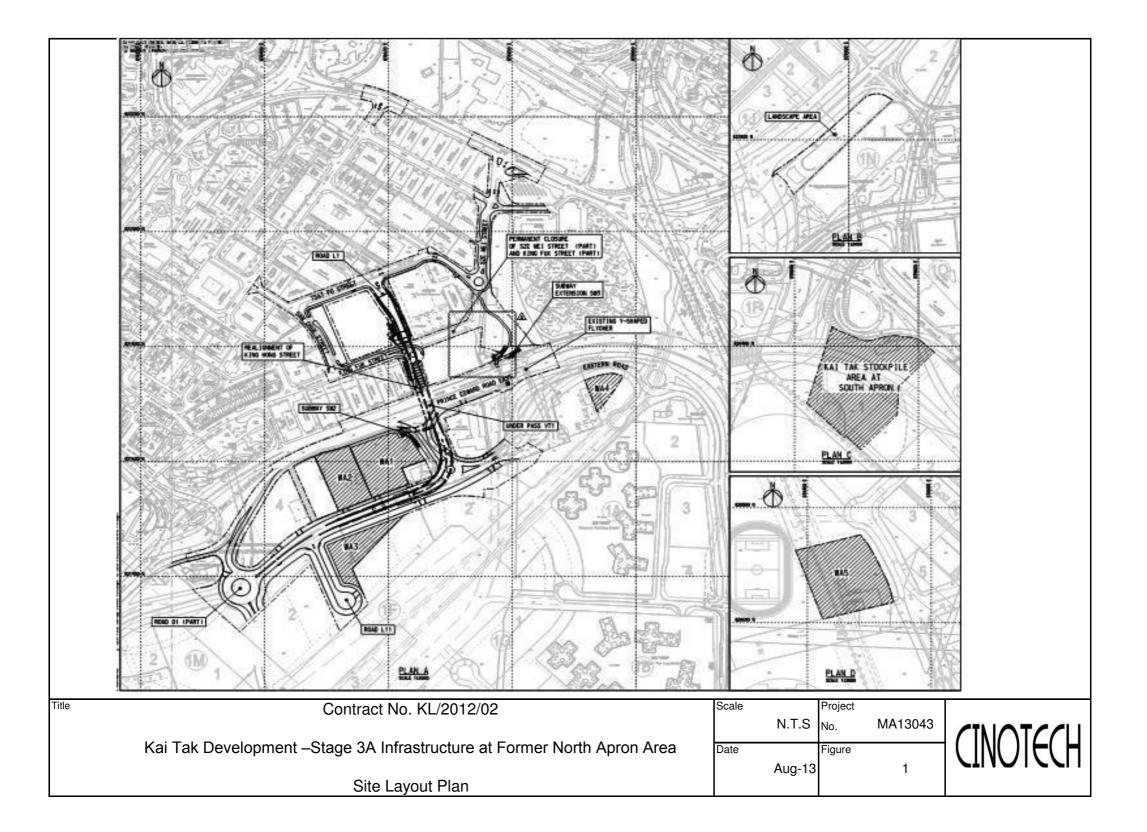
- To clear the silt/mud near the access road properly and regularly to prevent the dust emission on the site; and
- To provide impervious materials to cover the dusty materials to prevent the dust emission on the site.

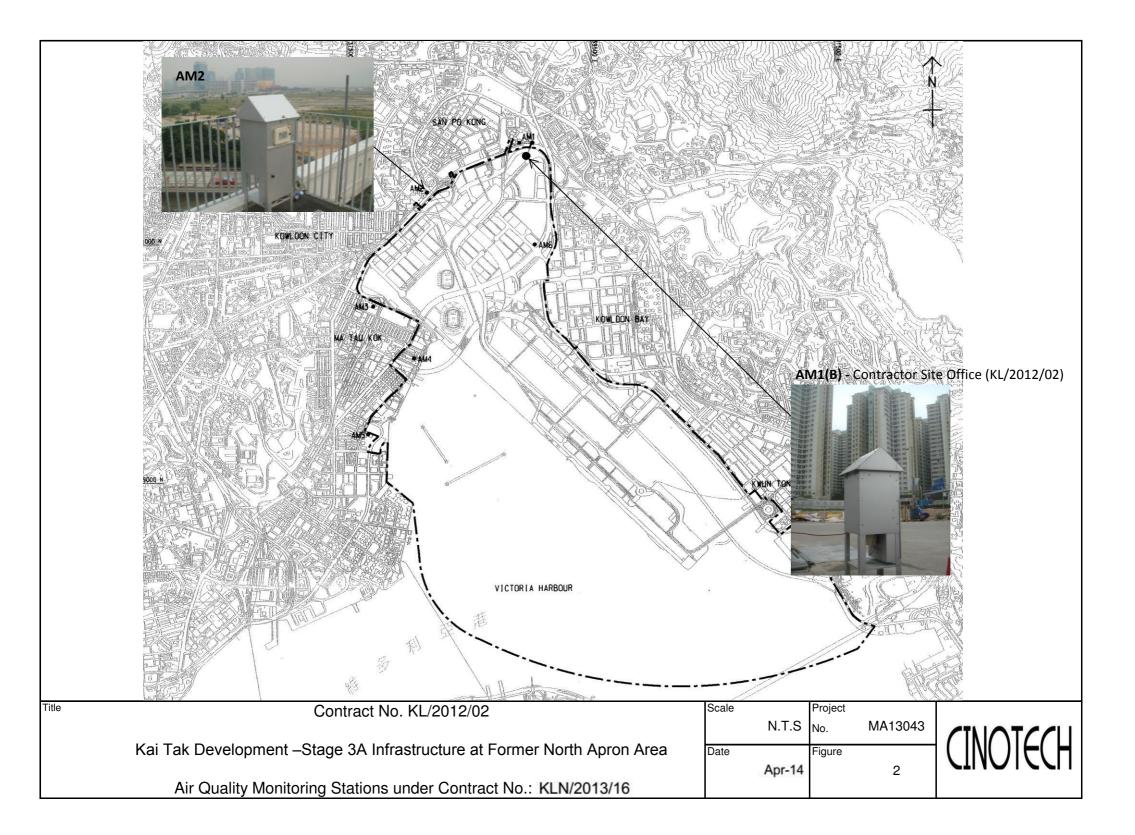
Waste / Chemical Management

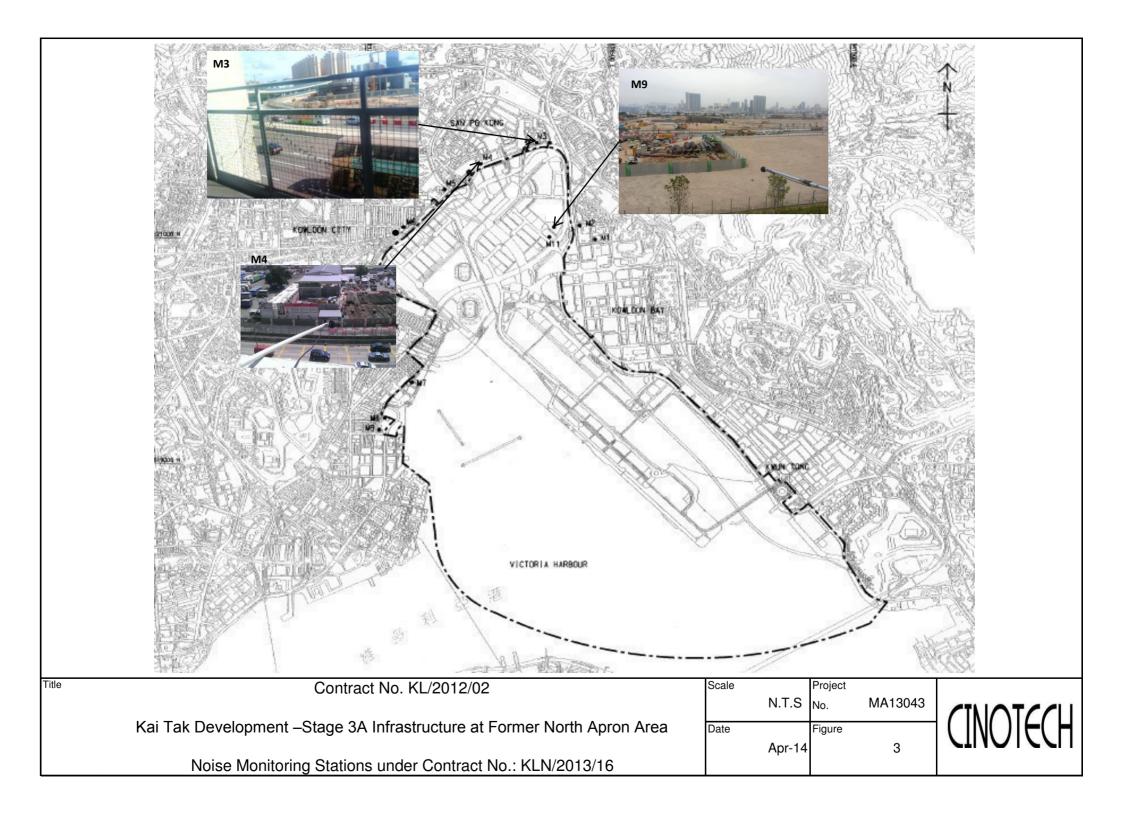
• To provide the drip tray for the chemical container to prevent the chemical spillage on

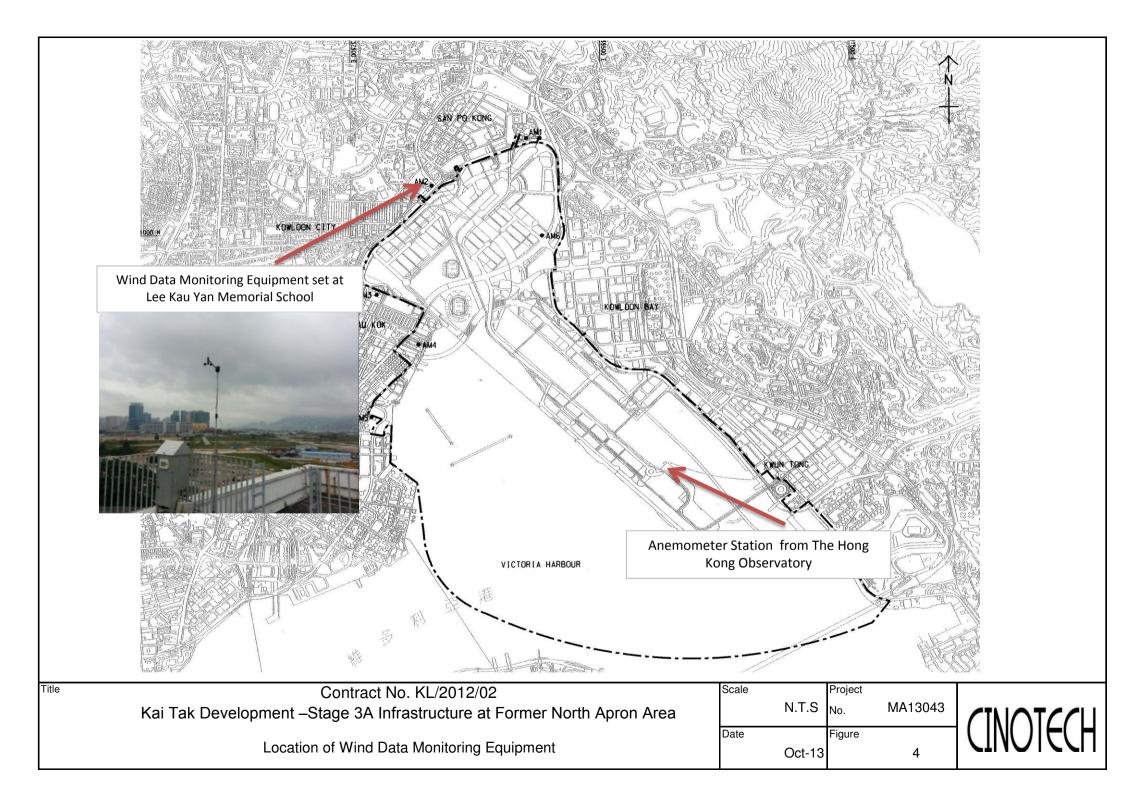
the site.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM1(B)	342	500
AM2	346	500

Table A-1Action and Limit Levels for 1-Hour TSP

Table A-2Action and Limit Levels for 24-Hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM1(B)	159	200
AM2	157	260

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES

						File No.	MA14008/58/0034
Station	AM1(B) - Outsi	de RLJV site of	fice (KL/2008/09)	Operator:	WK		
Date:	27-May-16			Next Due Date:	26-Jul	-16	
Equipment No.:	A-01-58			Serial No.	2357		
			Ambient	Condition			
Temperatu	re, Ta (K)	299.4	Pressure, Pa	ı (mmHg)		757.7	
		0	rifice Transfer Sta	andard Inform	ation		
Serial	No.:	2896	Slope, mc (CFM)		Intercep		-0.05079
Last Calibra	tion Date:	4-Mar-16			$bc = [\Delta H x (Pa/76)]$		
Next Calibra	ation Date:	3-Mar-17		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /	/ mc
		•	·····				
			Calibration of	TSP Sampler			
Calibration		01	rfice	1		HVS	
Point	ΔH (orifice),	[ΔH x (Pa/7ℓ	50) x (298/Ta)] ^{1/2}	Qstd (CFM)	ΔW (HVS), in.	[ΔW x (Pa/7	(60) x (298/Ta)] ^{1/2} Y -
	in. of water			X - axis	of water		axis
1	11.4		3.36	57.10	7.7		2.76
2	9,8		3.12	53.01	6.3		2.50
3	7.6		2.75	46.78	5.0		2.23
4	5.2		2.27	38.84	3.4		1.84
5	3.3		1.81	31.12	2.0	-	1.41
By Linear Regr Slope , mw = Correlation co	0.0509	-	9990	Intercept, bw :	-0.163	1	
*If Correlation C	oefficient < 0.99	0, check and rec	alibrate.	-			
			Set Point C	alculation			
From the TSP Fie	d Calibration C	urve_take_Ostd :			<u> </u>		i na sente presente de la construcción de la construcción de la construcción de la construcción de la construcc
From the Regress							
			in ang to				
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	x (Pa/760) x (2	98/Ta)] ^{1/2}		
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CHECKEU DY:		Signature.		<u> </u>		Date	<u>or 1 Min Oran</u>
			~				-

						File No	MA14008/58/0035
Station	AM1(B) - Outsid	de RLJV site off	ice (KL/2008/09)	Operator:	WK		
Date:	22-Jul-16		ı 	Next Due Date:	21-Sep		
Equipment No.: A-01-58			-	Serial No.	2357		
			Ambient	Condition			
Temperatu	re, Ta (K)	301.8	Pressure, Pa	(mmHg)		760.2	
	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
		0	rifice Transfer Sta	undard Inform	ation		
Serial	No.:	2896	Slope, mc (CFM)	0.0598	Intercep	t, bc	-0.05079
Last Calibra	ation Date:	4-Mar-16		mc x Qstd + b	$bc = [\Delta H \times (Pa/76)]$		1/2
Next Calibra	ation Date:	3-Mar-17		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} / 1	nc
		•		* *			
			Calibration of	TSP Sampler		n a sense Ogganisation a sense Ogganisation a sense	
Calibration		01	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[∆W x (Pa/76	0) x (298/Ta)] ^{1/2} Y- axis
1	11.4	3.36		56.97	7.8		2.78
2	9.8	3.11		52.88	6.4		2.51
3	7.7	2.76		46.97	5,1		2.24
4	5,3	2.29		39.12	3.4		1.83
5	3.1		1.75	30.12	2.0		1.41
сц.	ession of Y on X 0.0505			Intercept, bw -	-0.128	31	
Correlation c		0.9	992				
	Coefficient < 0.99						
				alculation			
	eld Calibration C	-					
From the Regress	sion Equation, the	e "Y" value acco	rding to				
		mw x ($Qstd + bw = \Delta W $	x (Pa/760) x (2	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (my	w x Qstd + bw)	² x (760 / Pa) x (7	(a / 298) =	4.22		
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				~			

						File No.	MA14008/59/0036
Station	tation AM2 - Lee Kau Yan Memorial School Operator: WK						
Date: 27-May-16			Next Due Date:		26-Jul-	-16	
Equipment No.:	A-01-59			Serial No.	2354		
			Ambient (Condition			
Temperature, Ta (K) 299.7		Pressure, Pa			757.2		
<u>P</u>			4		• • • • •		
		C	rifice Transfer Sta	ndard Inform	ation		
Serial	No.:	2896	Slope, mc (CFM)		Intercep		-0.05079
Last Calibra	ation Date:	4-Mar-16			$bc = [\Delta H x (Pa/76)]$		
Next Calibra	ation Date:	3-Mar-17		$Qstd = \{ [\Delta H] :$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /	mc
		•					
			Calibration of	TSP Sampler			
Calibration		0	rfice	1		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/7	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/76	50) x (298/Ta)] ^{1/2} Y- axis
1	11.8	3.42		58.03	7.6		2.74
2	9.6	3.08		52.43	6.4		2.52
3	7.3		2.69	45.83	4.8		2.18
4	5.1		2.25	38.44	3.2		1.78
5	3.3		1.81	31.09	2.0		1.41
By Linear Regr Slope , mw = Correlation c			9991	Intercept, bw	-0.148	32	
*If Correlation C	Coefficient < 0.99	0, check and re	calibrate.	-			
			Set Point C	alculation			
	eld Calibration C						
From the Regres	sion Equation, th	e "Y" value acc	ording to				
		mw x	$Qstd + bw = [\Delta W]$	x (Pa/760) x (2	298/Ta)] ^{1/2}		
Therefore, Set Point; $W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 4.11$							
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Remarks:					,		
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Conducted by: Checked by:	WK Tang br	Signature: Signature:	Kw	ni /		Date: Date:	27/5/16 27 May 2016
			L				

						File No	MA14008/59/00)37
Station	AM2 - Lee Kau	Yan Memorial	School Operator:		WК			
Date:	22-Jul-16	Next Due Date:		21-Sep	-16			
Equipment No.:	uipment No.: <u>A-01-59</u>			Serial No.	2354	-		
			Ambient (Condition				aller (fra fra fra fra fra fra fra fra fra fra
Temperature, Ta (K) 301.4			Pressure, Pa		en fan te en sjoer oanwerde de sjoe	761.5		29526555
			·	<u> </u>	•			-,
		0	rifice Transfer Sta	ndard Inforn	ation			
Serial	No.:	2896	Slope, mc (CFM)	0.0598	Intercep	t, bc	-0.05079	
Last Calibra	ation Date:	4-Mar-16		mc x Qstd + I	$bc = [\Delta H \times (Pa/76)]$	50) x (298/Ta)]	1/2	
Next Calibr	ation Date:	3-Mar-17		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} / 1	nc	
		•	-					
			Calibration of	TSP Sampler				
Calibration		0	fice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/76	0) x (298/Ta)] ^{1/} axis	² Y-
1	11.8		3.42	58.03	7.9		2.80	
2	9.4		3.05	51.89	6.6		2.56	
3	7.3		2.69	45.83	4.9	2.20		
4	4.9		2.20	37.70	3.3	1.81		
5	3.3		1.81	31.09	2.2		1.48	
By Linear Regr Slope , mw = Correlation c	0.0498		1 1990	ntercept, bw	-0.069	8		
*If Correlation C	Coefficient < 0.990), check and rec	alibrate.					
			Set Point C	alculation		2		
From the TSP Fie	eld Calibration Cı	urve, take Qstd		<u></u>				<u></u>
From the Regress	sion Equation, the	e "Y" value acco	ording to					
					10			
		mw x ($Qstd + bw = [\Delta W x]$: (Pa/760) x (2	98/Ta)] ¹¹²			
Therefore, Se	et Point; W = (my	w x Qstd + bw)	² x (760 / Pa) x (T	a / 298) =	4.34			
		. ,		<i>,</i> .				
Remarks:								
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TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 04, 2016 Rootsmeter S/N 0438320 Ta Operator Tisch Orifice I.D 2896 Pa						295 - 755.65
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4340 1.0250 0.9150 0.8770 0.7210	3.2 6.4 7.9 8.7 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0001 0.9959 0.9938 0.9928 0.9875	0.6974 0.9716 1.0861 1.1320 1.3696	1.41732.00442.24102.35032.8346		0.9957 0.9915 0.9894 0.9885 0.9831	0.6944 0.9674 1.0814 1.1271 1.3636	0.8836 1.2496 1.3971 1.4653 1.7672
Qstd slop intercept coefficie	(b) = (2.11176 -0.05079 0.99982		Qa slope intercept coefficie	: (b) =	1.32235 -0.03166 0.99982
y axis =	SQRT [H2O (F	Pa/760) (298/1	[a)]	y axis =	SQRT [H2O ('1	[a/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

C/160225A
2016-02-25
2016-02-25
2016-02-25
2016-02-25
2016-08-24
1 of 2

ATTN: Miss Mei Ling Tang

Certificate of Calibration

Item for calibration:

Description	: Weather Monitor II
Manufacturer	: Davis Instruments
Model No.	: 7440
Serial No.	: MC01010A44

Test conditions:

Room Temperature: 21Relative Humidity: 54

: 21 degree Celsius : 54 %

Test Specifications:

- 1. Performance check of anemometer
- 2. Performance check of wind direction sensor

Methodology:

In-house method with reference anemometer (RS232 Integral Vane Digital Anemometer)

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

Test Report No.:	C/160225A
Date of Issue:	2016-02-25
Date Received:	2016-02-25
Date Tested:	2016-02-25
Date Completed:	2016-02-25
Next Due Date:	2016-08-24
Page:	2 of 2

Results:

1. Performance check of anemometer

Air Velocity, m/s		Difference D (m/s)
Instrument Reading (V1)	Reference Value (V1)	D = V1 - V2
2.00	2.00	0.00

2. Performance check of wind direction sensor

Wind Dire	ection (°)	Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45.1	45	0.1
89.8	90	-0.2
135.4	135	0.4
180.1	180	0.1
225.2	225	0.2
270	270	0
315.2	315	0.2
360	360	0



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No .:	C/160630/A
Date of Issue:	2016-07-04
Date Received:	2016-06-30
Date Tested:	2016-06-30
Date Completed:	2016-07-04
Next Due Date:	2016-09-03
Page:	1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration	
Item for Calibration:	
Description	: Laser Dust Monitor
Manufacturer	: Sibata
Model No.	: LD-3
Serial No.	: 251634
Sensitivity (K) 1 CPM	: 0.001 mg/m ³
Sen. Adjustment Scale Setting	: 550 CPM
Equipment No.	: A-02-01
Test Conditions:	
Room Temperature	: 24 degree Celsius
Relative Humidity	: 57 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	0.0035

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

Certificate of Calibration

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Mr. W. K. Tang

Test Report No.:	C/160630/B
Date of Issue:	2016-07-04
Date Received:	2016-06-30
Date Tested:	2016-06-30
Date Completed:	2016-07-04
Next Due Date:	2016-09-03
Page:	1 of 1

ATTN:

Item for Calibration:	
Description	: Laser Dust Monitor
Manufacturer	: Sibata
Model No.	: LD-3B
Serial No.	: 853944
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$
Sen. Adjustment Scale Setting	: 685 CPM
Equipment No.	: A-02-04
Test Conditions:	
Room Temperature	: 24 degree Celsius
Relative Humidity	: 57 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	0.0036

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

Certificate of Calibration

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/160630/C
Date of Issue:	2016-07-04
Date Received:	2016-06-30
Date Tested:	2016-06-30
Date Completed:	2016-07-04
Next Due Date:	2016-09-03
Page:	1 of 1

ATTN:

Mr. W. K. Tang

Item for Calibration:	
Description	: Laser Dust Monitor
Manufacturer	: Sibata
Model No.	: LD-3B
Serial No.	: 014750
Sensitivity (K) 1 CPM	: 0.001 mg/m ³
Sen. Adjustment Scale Setting	: 790 CPM
Equipment No.	: A-02-06
Test Conditions:	
Room Temperature	: 24 degree Celsius
Relative Humidity	: 57 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	0.0034

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

Certificate of Calibration

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Mr. W. K. Tang

Test Report No.:	C/160630/D
Date of Issue:	2016-07-04
Date Received:	2016-06-30
Date Tested:	2016-06-30
Date Completed:	2016-07-04
Next Due Date:	2016-09-03
Page:	1 of 1

ATTN:

Item for Calibration:	
Description	: Laser Dust Monitor
Manufacturer	: Sibata
Model No.	: LD-3B
Serial No.	: 541146
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$
Sen. Adjustment Scale Setting	: 625 CPM
Equipment No.	: A-02-07
Test Conditions:	
Room Temperature	: 24 degree Celsius
Relative Humidity	: 57 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	0.0035

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

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PATRICK TSE Laboratory Manager



ATTN:

WELLAB LIMITED Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Mr. W. K. Tang

Test Report No.:	C/160624/1
Date of Issue:	2016-06-27
Date Received:	2016-06-24
Date Tested:	2016-06-24
Date Completed:	2016-06-27
Next Due Date:	2016-08-26
Page:	1 of 1

Certificate of Calibration		· · ·
Item for Calibration:		
Description	: Laser Dust Monitor	
Manufacturer	: Sibata	
Model No.	: LD-3B	
Serial No.	: 095029	
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$	
Sen. Adjustment Scale Setting	: 551 CPM	
Equipment No.	: A-02-10	
Test Conditions:		
Room Temperature	: 23 degree Celsius	
Relative Humidity	: 58 %	

Test Specifications & Methodology:

Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
 In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	0.0036
*******	*****

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT:Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong KongTest
Date

C/N/150918/1
2015-09-21
2015-09-18
2015-09-18
2015-09-21
2016-09-20
1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

: 'SVANTEK' Integrating Sound Level Meter
: SVANTEK
: SVAN 955
: 12553
: 35222
: N-08-02

Test conditions:

Room Temperatre Relative Humidity : 25 degree Celsius : 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/N/150918/2
Date of Issue:	2015-09-21
Date Received:	2015-09-18
Date Tested:	2015-09-18
Date Completed:	2015-09-21
Next Due Date:	2016-09-20
Page:	1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 12563
Microphone No.	: 34377
Equipment No.	: N-08-03

Test conditions:

Room Temperatre Relative Humidity : 25 degree Celsius : 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



1 of 1

TEST REPORT

APPLICANT: Cinotech Consultants Limited Test Report No.: C/N/151231 Room 1710, Technology Park, Date of Issue: 2016-01-04 2015-12-31 18 On Lai Street, Date Received: Date Tested: Shatin, NT, Hong Kong 2015-12-31 Date Completed: 2016-01-04 Next Due Date: 2017-01-03

ATTN:

Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 14303
Microphone No.	: 35222
Equipment No.	: N-08-05
15:	

Page:

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 53%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

Remark: 1)This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT:Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong KongTest Report No.:C/NDate of Issue:201Date Received:201Date Tested:201Date Tested:201Date Completed:201

Test Report No .:	C/N/150828/1
Date of Issue:	2015-08-31
Date Received:	2015-08-28
Date Tested:	2015-08-28
Date Completed:	2015-08-31
Next Due Date:	2016-08-30
Page:	1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21455
Microphone No.	: 43730
Equipment No.	: N-08-07
18:	

Test conditions:

Room Temperatre Relative Humidity : 24 degree Celsius : 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



2016-08-23

1 of 1

TEST REPORT

APPLICANT:		Test Report No.: Date of Issue:	C/N/150821/3 2015-08-24
	18 On Lai Street,	Date Received:	2015-08-21
		Date Tested:	2015-08-21
		Date Completed:	2015-08-24

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21459
Microphone No.	: 43676
Equipment No.	: N-08-08

Next Due Date:

Page:

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 54%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



2016-08-23

1 of 1

TEST REPORT

APPLICANT:Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong KongTest Report No.:C/N/150821/1
Date of Issue:
2015-08-24Date Received:2015-08-21
Date Tested:
2015-08-21Date Completed:
2015-08-24

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21460
Microphone No.	: 43679
Equipment No.	: N-08-09

Next Due Date:

Page:

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 54%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

TRICK TSE

Laboratory Manager



TEST REPORT Test Report No.: C/N/151127/1 **Cinotech Consultants Limited APPLICANT:** Date of Issue: 2015-11-30 Room 1710, Technology Park, Date Received: 2015-11-27 18 On Lai Street, Date Tested: 2015-11-27 Shatin, NT, Hong Kong Date Completed: 2015-11-30 Next Due Date: 2016-11-29 Page: 1 of 1 ATTN: Mr. W.K. Tang **Certificate of Calibration** Item for calibration: : 'SVANTEK' Integrating Sound Level Meter Description Manufacturer : SVANTEK Model No. : SVAN 957 Serial No. :23853 Microphone No. : 48530 : N-08-10 Equipment No. **Test conditions:** Room Temperatre : 24 degree Celsius **Relative Humidity** : 62% **Test Specifications:** Performance checking at 94 and 114 dB **Methodology:** In-house method, according to manufacturer instruction manual **Results:** Instrument Readings, dB Reference Set Point, dB 94.0 94 114.0 114 PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

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PATRICK TSE Laboratory Manager



TEST REPORT				
APPLICANT:	Cinotech Consultants Li	mited	Test Report No.:	C/N/151031/1
	Room 1710, Technology	Park,	Date of Issue:	2015-11-02
	18 On Lai Street,		Date Received:	2015-10-31
	Shatin, NT, Hong Kong		Date Tested:	2015-10-31
			Date Completed:	2015-11-02
			Next Due Date:	2016-11-01
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibration:				
	Description	: Acoustica	al Calibrator	
	Manufacturer	: SVANTE	CK.	
	Model No.	: SV30A		
	Serial No.	: 10965		
	Equipment No.	: N-09-02		
Test conditions:				
	Room Temperatre	: 24 degree	e Celsius	
	Relative Humidity	: 56%		
Methodology:				
The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.				

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



TEST REPORT Test Report No.: **APPLICANT: Cinotech Consultants Limited** C/N/151003/1 Room 1710, Technology Park, Date of Issue: 2015-10-04 18 On Lai Street, Date Received: 2015-10-03 Shatin, NT, Hong Kong Date Tested: 2015-10-03 Date Completed: 2015-10-04 Next Due Date: 2016-10-03 ATTN: Mr. W.K. Tang Page: 1 of 1 Item for calibration: Description : Acoustical Calibrator Manufacturer : SVANTEK Model No. : SV30A Serial No. :24803 Equipment No. : N-09-03 **Test conditions:** Room Temperatre : 23 degree Celsius **Relative Humidity** : 57%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0 \pm 0.1 \mathrm{dB}$
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT APPLICANT: Cinotech Consultants Limited Test Report No.: C/N/151003/3 Room 1710, Technology Park, Date of Issue: 2015-10-04 18 On Lai Street, Date Received: 2015-10-03 Shatin, NT, Hong Kong Date Tested: 2015-10-03 Date Completed: 2015-10-04 Next Due Date: 2016-10-03 ATTN: Mr. W.K. Tang Page: 1 of 1 Item for calibration: : Acoustical Calibrator Description Manufacturer : SVANTEK Model No. : SV30A Serial No. :24791 Equipment No. : N-09-04 **Test conditions:** : 23 degree Celsius Room Temperatre **Relative Humidity** : 57%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



	TEST	REPOR	сT	
APPLICANT:	Cinotech Consultants L Room 1710, Technolog		Test Report No.: Date of Issue:	C/N/151003/2 2015-10-04
	18 On Lai Street,),	Date Received:	2015-10-03
	Shatin, NT, Hong Kong	5	Date Tested:	2015-10-03
			Date Completed: Next Due Date:	2015-10-04 2016-10-03
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibr	ation:			
	Description	: Acoustic	al Calibrator	
	Manufacturer	: SVANTI	EK	
	Model No.	: SV30A		
	Serial No.	: 24780		
	Equipment No.	: N-09-05		
Test conditions	5:			
	Room Temperatre Relative Humidity	: 23 degree : 57%	e Celsius	

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

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PATRICK TSE Laboratory Manager



TEST REPORT APPLICANT: Cinotech Consultants Limited Test Report No.: C/N/151106/1 Room 1710, Technology Park, Date of Issue: 2015-11-07 18 On Lai Street, Date Received: 2015-11-06 Shatin, NT, Hong Kong Date Tested: 2015-11-06 Date Completed: 2015-11-07 Next Due Date: 2016-11-06 ATTN: Mr. W.K. Tang Page: 1 of 1 Item for calibration: Description : Acoustical Calibrator Manufacturer : Brüel & Kjær Model No. : 4231 Serial No. : 2326353 Equipment No. : N-02-01 **Test conditions:**

Room Temperatre Relative Humidity : 23 degree Celsius : 56 %

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0 \pm 0.1 \text{ dB}$
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT Test Report No.: **Cinotech Consultants Limited** C/N/150821/4 **APPLICANT:** Date of Issue: 2015-08-24 Room 1710, Technology Park, Date Received: 18 On Lai Street, 2015-08-21 Shatin, NT, Hong Kong Date Tested: 2015-08-21 Date Completed: 2015-08-24 Next Due Date: 2016-08-23 ATTN: Mr. W.K. Tang Page: 1 of 1 **Certificate of Calibration** Item for calibration: Description : Acoustical Calibrator Manufacturer : Brüel & Kjær Model No. : 4231 Serial No. : 2412367 Equipment No. : N-02-03 **Test conditions:**

Room Temperatre Relative Humidity : 22 degree Celsius : 54%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0 \pm 0.1 \text{ dB}$
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

APPENDIX C WEATHER INFORMATION

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 July 2016	27.7 - 33.0	68 - 92	3.4
2 July 2016	26.9 - 32.0	71 – 92	20.8
3 July 2016	27.3 - 31.5	74 – 91	2.7
4 July 2016	28.0-33.0	69 - 91	3.8
5 July 2016	25.8 - 32.6	70 – 96	9.8
6 July 2016	24.7 - 28.8	88 - 98	33.6
7 July 2016	27.9 - 34.0	61 – 89	Trace
8 July 2016	28.1 - 34.2	59 - 88	0
9 July 2016	26.4 - 35.6	55 - 88	10.3
10 July 2016	26.2 - 31.3	70 - 91	1.7
11 July 2016	26.1 - 31.1	73 – 96	11.7
12 July 2016	27.0 - 29.0	78 - 90	0.1
13 July 2016	25.6 - 31.7	78 – 98	35.2
14 July 2016	26.4 - 30.3	78 – 97	10.2
15 July 2016	28.6 - 33.0	69 - 90	1.0
16 July 2016	29.0 - 33.2	69 – 86	0.3
17 July 2016	29.0 - 33.2	67 – 88	0
18 July 2016	28.7 - 32.4	60 - 84	0.6
19 July 2016	26.7 - 32.3	69 – 94	4.4

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
20 July 2016	25.6 - 31.9	68 – 97	16.8
21 July 2016	27.5 - 33.3	63 - 86	0.3
22 July 2016	28.1 - 32.9	61 - 88	0
23 July 2016	28.0 - 32.8	63 - 87	0
24 July 2016	28.0 - 34.0	53 - 86	0
25 July 2016	28.3 - 35.0	57 – 88	0
26 July 2016	27.0 - 32.0	76 – 93	8.0
27 July 2016	28.0-33.4	60 - 87	Trace
28 July 2016	28.1 - 32.9	58 - 88	0
29 July 2016	27.6 - 33.7	56 - 86	0
30 July 2016	28.7 - 33.5	59 - 89	Trace

* The above information was extracted from the daily weather summary by Hong Kong Observatory.

Date	Time	Wind Speed m/s	Direction
1-Jul-2016	0:00	1.9	WNW
1-Jul-2016	1:00	1.7	WNW
1-Jul-2016	2:00	1.9	WNW
1-Jul-2016	3:00	2	WNW
1-Jul-2016	4:00	1.4	W
1-Jul-2016	5:00	1.5	W
1-Jul-2016	6:00	1.4	W
1-Jul-2016	7:00	1.7	W
1-Jul-2016	8:00	1.7	W
1-Jul-2016	9:00	1.9	WNW
1-Jul-2016	10:00	2	WNW
1-Jul-2016	11:00	1.9	WNW
1-Jul-2016	12:00	2.3	WNW
1-Jul-2016	13:00	2.6	WNW
1-Jul-2016	14:00	1.9	WNW
1-Jul-2016	15:00	2.3	W
1-Jul-2016	16:00	1.9	WNW
1-Jul-2016	17:00	2.4	W
1-Jul-2016	18:00	2.1	W
1-Jul-2016	19:00	2.2	W
1-Jul-2016	20:00	1.8	W
1-Jul-2016	21:00	1.6	W
1-Jul-2016	22:00	2.2	WNW
1-Jul-2016	23:00	2.3	WSW
2-Jul-2016	0:00	2.1	WSW
2-Jul-2016	1:00	1.6	W
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2-Jul-2016	4:00	1.3	WNW
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4-Jul-2016	2:00	3	SW
4-Jul-2016	3:00	2.7	W
4-Jul-2016	4:00	3	W
4-Jul-2016	5:00	3.1	WNW
4-Jul-2016	6:00	3.2	WNW
4-Jul-2016	7:00	2.9	WNW
4-Jul-2016	8:00	2.5	SW
4-Jul-2016	9:00	2.7	S
4-Jul-2016	10:00	3.1	S
4-Jul-2016	11:00	3	SSW
4-Jul-2016	12:00	2.6	S
4-Jul-2016	13:00	2.5	WNW
4-Jul-2016	14:00	1.9	WNW
4-Jul-2016	15:00	2.5	WNW
4-Jul-2016	16:00	2.4	SE
4-Jul-2016	17:00	2.6	SE
4-Jul-2016	18:00	2.6	ESE
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4-Jul-2016	20:00	2	SSW
4-Jul-2016	21:00	2.1	WNW
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5-Jul-2016	2:00	2.5	SW
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5-Jul-2016	19:00	3.7	SW
5-Jul-2016	20:00	4	W
5-Jul-2016	21:00	3.8	W
5-Jul-2016	22:00	4.3	WNW
5-Jul-2016	23:00	4.1	WNW
6-Jul-2016	0:00	0.8	WSW
6-Jul-2016	1:00	0.7	WSW
6-Jul-2016	2:00	1.4	WSW
6-Jul-2016	3:00	1.8	WSW
6-Jul-2016	4:00	1.3	WSW
6-Jul-2016	5:00	1.1	WSW
6-Jul-2016	6:00	1.6	SW
6-Jul-2016	7:00	1.2	SW
6-Jul-2016	8:00	1.7	SW
6-Jul-2016	9:00	2	SW
6-Jul-2016	10:00	2.3	SW
6-Jul-2016	11:00	2.4	SW
6-Jul-2016	12:00	2.2	WSW
6-Jul-2016	13:00	2.7	WSW
6-Jul-2016	14:00	3.2	WSW
6-Jul-2016	15:00	3.4	WSW
6-Jul-2016	16:00	3.1	WSW
6-Jul-2016	17:00	2.4	SW
6-Jul-2016	18:00	2	SW
6-Jul-2016	19:00	1.6	SSW
6-Jul-2016	20:00	1.7	SSW
6-Jul-2016	21:00	1.5	WSW
6-Jul-2016	22:00	1.5	SW
6-Jul-2016	23:00	1.1	W
7-Jul-2016	0:00	0.9	W
7-Jul-2016	1:00	1.2	WNW
7-Jul-2016	2:00	1	WNW

7-Jul-2016	3:00	1.1	WNW
7-Jul-2016	4:00	1.2	W
7-Jul-2016	5:00	0.7	W
7-Jul-2016	6:00	1.2	SW
7-Jul-2016	7:00	0.4	SW
7-Jul-2016	8:00	0.8	W
7-Jul-2016	9:00	0.6	W
7-Jul-2016	10:00	1	WNW
7-Jul-2016	11:00	1.4	WNW
7-Jul-2016	12:00	2.7	W
7-Jul-2016	13:00	2.5	SSW
7-Jul-2016	14:00	2.2	SSW
7-Jul-2016	15:00	1.5	S
7-Jul-2016	16:00	1.7	W
7-Jul-2016	17:00	1.9	NNE
7-Jul-2016	18:00	1.5	E
7-Jul-2016	19:00	1.7	W
7-Jul-2016	20:00	0.7	W
7-Jul-2016	21:00	0.6	W
7-Jul-2016	22:00	0.8	W
7-Jul-2016	23:00	0.5	W
8-Jul-2016	0:00	0.5	W
8-Jul-2016	1:00	0.4	W
8-Jul-2016	2:00	0.3	WNW
8-Jul-2016	3:00	0.6	WNW
8-Jul-2016	4:00	0.5	SW
8-Jul-2016	5:00	0.5	ENE
8-Jul-2016	6:00	0.5	ENE
8-Jul-2016	7:00	0.7	SSW
8-Jul-2016	8:00	1.5	SSW
8-Jul-2016	9:00	2.2	WNW
8-Jul-2016	10:00	2.5	WNW
8-Jul-2016	11:00	1.7	W
8-Jul-2016	12:00	1.9	SW
8-Jul-2016	13:00	2.2	W
8-Jul-2016	14:00	3.3	W
8-Jul-2016	15:00	2.9	WNW

8-Jul-2016	16:00	2.5	WNW
8-Jul-2016	17:00	3.1	WNW
8-Jul-2016	18:00	2.1	WNW
8-Jul-2016	19:00	2.4	W
8-Jul-2016	20:00	2.4	W
8-Jul-2016	21:00	2.9	WNW
8-Jul-2016	22:00	3	WNW
8-Jul-2016	23:00	2.6	W
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9-Jul-2016	1:00	2.8	SW
9-Jul-2016	2:00	2.4	SW
9-Jul-2016	3:00	2.4	SW
9-Jul-2016	4:00	2.2	WNW
9-Jul-2016	5:00	1.5	W
9-Jul-2016	6:00	1.6	W
9-Jul-2016	7:00	1.3	WNW
9-Jul-2016	8:00	1.8	WNW
9-Jul-2016	9:00	2.4	WNW
9-Jul-2016	10:00	2.6	WNW
9-Jul-2016	11:00	3.2	W
9-Jul-2016	12:00	3	W
9-Jul-2016	13:00	2.3	WSW
9-Jul-2016	14:00	2.4	SW
9-Jul-2016	15:00	2.6	NW
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9-Jul-2016	17:00	1.9	WSW
9-Jul-2016	18:00	1.6	WNW
9-Jul-2016	19:00	0.9	WNW
9-Jul-2016	20:00	1	WNW
9-Jul-2016	21:00	1.8	W
9-Jul-2016	22:00	1.7	WSW
9-Jul-2016	23:00	1.4	SW
10-Jul-2016	0:00	1.4	WSW
10-Jul-2016	1:00	1.4	W
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10-Jul-2016	3:00	2.5	WNW
10-Jul-2016	4:00	2.1	W

10-Jul-2016	5:00	1.6	W
10-Jul-2016	6:00	0.7	SW
10-Jul-2016	7:00	1.1	SW
10-Jul-2016	8:00	1.7	SW
10-Jul-2016	9:00	2.3	SW
10-Jul-2016	10:00	3.8	SW
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10-Jul-2016	12:00	4.4	W
10-Jul-2016	13:00	4.3	W
10-Jul-2016	14:00	3	WNW
10-Jul-2016	15:00	2	SSW
10-Jul-2016	16:00	2.5	SW
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10-Jul-2016	18:00	1.7	WSW
10-Jul-2016	19:00	1.7	WNW
10-Jul-2016	20:00	2	WSW
10-Jul-2016	21:00	1.3	WNW
10-Jul-2016	22:00	1.5	WNW
10-Jul-2016	23:00	1.7	W
11-Jul-2016	0:00	2.4	WNW
11-Jul-2016	1:00	1.9	WNW
11-Jul-2016	2:00	1.8	SW
11-Jul-2016	3:00	1.5	SSW
11-Jul-2016	4:00	2.2	SSW
11-Jul-2016	5:00	1.8	SSW
11-Jul-2016	6:00	2.7	SSW
11-Jul-2016	7:00	2.4	SSW
11-Jul-2016	8:00	2.5	SW
11-Jul-2016	9:00	3.6	WNW
11-Jul-2016	10:00	3.2	WNW
11-Jul-2016	11:00	3.1	W
11-Jul-2016	12:00	2.8	WSW
11-Jul-2016	13:00	2.9	WNW
11-Jul-2016	14:00	3.7	WNW
11-Jul-2016	15:00	3.4	WNW
11-Jul-2016	16:00	2.4	WNW
11-Jul-2016	17:00	2.9	WNW

11-Jul-2016	18:00	2.7	W
11-Jul-2016	19:00	2	SSW
11-Jul-2016	20:00	2.1	WNW
11-Jul-2016	21:00	1.6	WNW
11-Jul-2016	22:00	1.3	W
11-Jul-2016	23:00	1.6	W
12-Jul-2016	0:00	2	WNW
12-Jul-2016	1:00	1.6	WNW
12-Jul-2016	2:00	1.2	WNW
12-Jul-2016	3:00	1.7	W
12-Jul-2016	4:00	2	W
12-Jul-2016	5:00	1.9	W
12-Jul-2016	6:00	1.5	WNW
12-Jul-2016	7:00	1.1	WNW
12-Jul-2016	8:00	1.5	WNW
12-Jul-2016	9:00	2.6	WNW
12-Jul-2016	10:00	2.4	SW
12-Jul-2016	11:00	2.5	WNW
12-Jul-2016	12:00	3.6	WNW
12-Jul-2016	13:00	3.1	WNW
12-Jul-2016	14:00	3.1	WNW
12-Jul-2016	15:00	2.5	W
12-Jul-2016	16:00	2.7	WNW
12-Jul-2016	17:00	2.9	WNW
12-Jul-2016	18:00	2.6	WNW
12-Jul-2016	19:00	2.5	W
12-Jul-2016	20:00	2.3	W
12-Jul-2016	21:00	2.4	WNW
12-Jul-2016	22:00	2.6	WNW
12-Jul-2016	23:00	3	WSW
13-Jul-2016	0:00	3.4	SW
13-Jul-2016	1:00	3	WSW
13-Jul-2016	2:00	2.5	SW
13-Jul-2016	3:00	2.6	WNW
13-Jul-2016	4:00	1.8	WNW
13-Jul-2016	5:00	2.1	W
13-Jul-2016	6:00	2	WNW

13-Jul-2016	7:00	2	WNW
13-Jul-2016	8:00	2.5	W
13-Jul-2016	9:00	3.1	W
13-Jul-2016	10:00	3.5	WSW
13-Jul-2016	11:00	4.6	WNW
13-Jul-2016	12:00	4.1	NW
13-Jul-2016	13:00	4.7	ESE
13-Jul-2016	14:00	4.6	WSW
13-Jul-2016	15:00	4	WNW
13-Jul-2016	16:00	3.4	WNW
13-Jul-2016	17:00	3.4	WNW
13-Jul-2016	18:00	3.1	NE
13-Jul-2016	19:00	3.1	SW
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13-Jul-2016	21:00	3	WNW
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13-Jul-2016	23:00	2.4	WSW
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14-Jul-2016	3:00	2.5	SW
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14-Jul-2016	5:00	3	W
14-Jul-2016	6:00	2.7	W
14-Jul-2016	7:00	3.7	W
14-Jul-2016	8:00	3.7	W
14-Jul-2016	9:00	4.4	WSW
14-Jul-2016	10:00	3.7	WSW
14-Jul-2016	11:00	3.4	WSW
14-Jul-2016	12:00	3.2	W
14-Jul-2016	13:00	3.4	W
14-Jul-2016	14:00	2.3	WSW
14-Jul-2016	15:00	2.6	W
14-Jul-2016	16:00	3.3	WNW
14-Jul-2016	17:00	2.8	W
14-Jul-2016	18:00	2	W
14-Jul-2016	19:00	2.5	WSW

44 1-1 0040	00.00	0.4	10/010/
14-Jul-2016	20:00	2.4	WSW
14-Jul-2016	21:00	2.9	W
14-Jul-2016	22:00	3	WSW
14-Jul-2016	23:00	2.8	WNW
15-Jul-2016	0:00	3.1	WNW
15-Jul-2016	1:00	2.5	WNW
15-Jul-2016	2:00	2.6	SW
15-Jul-2016	3:00	3.2	WNW
15-Jul-2016	4:00	2.4	W
15-Jul-2016	5:00	2	WSW
15-Jul-2016	6:00	2.1	WSW
15-Jul-2016	7:00	2.4	SW
15-Jul-2016	8:00	2.8	WNW
15-Jul-2016	9:00	2.4	WNW
15-Jul-2016	10:00	3.2	SW
15-Jul-2016	11:00	2.6	W
15-Jul-2016	12:00	2.5	WSW
15-Jul-2016	13:00	2.3	SW
15-Jul-2016	14:00	2.8	WSW
15-Jul-2016	15:00	2.6	SW
15-Jul-2016	16:00	2.5	WSW
15-Jul-2016	17:00	2.5	WSW
15-Jul-2016	18:00	2.1	WSW
15-Jul-2016	19:00	1.9	WNW
15-Jul-2016	20:00	1.7	WSW
15-Jul-2016	21:00	1.6	WNW
15-Jul-2016	22:00	1.6	WNW
15-Jul-2016	23:00	1.6	WNW
16-Jul-2016	0:00	2.3	WNW
16-Jul-2016	1:00	2.3	WNW
16-Jul-2016	2:00	1.5	WNW
16-Jul-2016	3:00	1.7	W
16-Jul-2016	4:00	2.4	SSW
16-Jul-2016	5:00	2.3	SW
16-Jul-2016	6:00	2.3	SW
16-Jul-2016	7:00	2.7	SW
16-Jul-2016	8:00	2.6	WNW

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16-Jul-2016	9:00	2.9	WNW
16-Jul-2016	10:00	2	WNW
16-Jul-2016	11:00	2	WSW
16-Jul-2016	12:00	2.4	SSW
16-Jul-2016	13:00	2.8	WSW
16-Jul-2016	14:00	2.7	W
16-Jul-2016	15:00	2.8	SSW
16-Jul-2016	16:00	3	SSW
16-Jul-2016	17:00	3.2	W
16-Jul-2016	18:00	2.1	W
16-Jul-2016	19:00	2	WNW
16-Jul-2016	20:00	1.5	WNW
16-Jul-2016	21:00	1.6	WNW
16-Jul-2016	22:00	1.4	WNW
16-Jul-2016	23:00	1.9	W
17-Jul-2016	0:00	2.2	WSW
17-Jul-2016	1:00	2.2	WSW
17-Jul-2016	2:00	2.1	SW
17-Jul-2016	3:00	2.2	WSW
17-Jul-2016	4:00	1.6	WNW
17-Jul-2016	5:00	1.4	W
17-Jul-2016	6:00	1.7	W
17-Jul-2016	7:00	1.8	SW
17-Jul-2016	8:00	1.8	WNW
17-Jul-2016	9:00	2.1	WNW
17-Jul-2016	10:00	2.6	WNW
17-Jul-2016	11:00	2.8	WNW
17-Jul-2016	12:00	2.9	W
17-Jul-2016	13:00	2.6	W
17-Jul-2016	14:00	3.2	SSW
17-Jul-2016	15:00	3.2	SSW
17-Jul-2016	16:00	2.6	WNW
17-Jul-2016	17:00	1.9	WNW
17-Jul-2016	18:00	1.8	W
17-Jul-2016	19:00	1.6	N
17-Jul-2016	20:00	1.4	N
17-Jul-2016	21:00	1.1	NNE

17-Jul-2016	22:00	1.6	W
17-Jul-2016	23:00	1.1	W
18-Jul-2016	0:00	0.9	W
18-Jul-2016	1:00	0.9	W
18-Jul-2016	2:00	0.8	WSW
18-Jul-2016	3:00	0.8	W
18-Jul-2016	4:00	0.9	W
18-Jul-2016	5:00	0.9	WSW
18-Jul-2016	6:00	1	WSW
18-Jul-2016	7:00	1	WNW
18-Jul-2016	8:00	1.7	WSW
18-Jul-2016	9:00	3.4	S
18-Jul-2016	10:00	3	W
18-Jul-2016	11:00	3.5	W
18-Jul-2016	12:00	3.4	SW
18-Jul-2016	13:00	3.5	WSW
18-Jul-2016	14:00	3	WSW
18-Jul-2016	15:00	2.8	W
18-Jul-2016	16:00	2.8	WSW
18-Jul-2016	17:00	2.5	WSW
18-Jul-2016	18:00	2.2	SSW
18-Jul-2016	19:00	1.7	SSW
18-Jul-2016	20:00	1.7	SW
18-Jul-2016	21:00	1.2	WSW
18-Jul-2016	22:00	1.5	WSW
18-Jul-2016	23:00	1.5	W
19-Jul-2016	0:00	1.9	WSW
19-Jul-2016	1:00	1.5	W
19-Jul-2016	2:00	1.5	W
19-Jul-2016	3:00	1.5	WSW
19-Jul-2016	4:00	1.8	W
19-Jul-2016	5:00	1.4	WSW
19-Jul-2016	6:00	1	WNW
19-Jul-2016	7:00	1.4	WNW
19-Jul-2016	8:00	1.5	W
19-Jul-2016	9:00	2.2	WNW
19-Jul-2016	10:00	3.6	WNW

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19-Jul-2016	11:00	3.8	WNW
19-Jul-2016	12:00	3.3	WNW
19-Jul-2016	13:00	3	WNW
19-Jul-2016	14:00	3.1	WNW
19-Jul-2016	15:00	3.2	WNW
19-Jul-2016	16:00	3.2	WNW
19-Jul-2016	17:00	3	WNW
19-Jul-2016	18:00	2.1	WNW
19-Jul-2016	19:00	1.3	W
19-Jul-2016	20:00	0.8	WNW
19-Jul-2016	21:00	1	NW
19-Jul-2016	22:00	1	WNW
19-Jul-2016	23:00	0.9	WNW
20-Jul-2016	0:00	0.9	WNW
20-Jul-2016	1:00	1	WNW
20-Jul-2016	2:00	1.2	WNW
20-Jul-2016	3:00	1.1	WNW
20-Jul-2016	4:00	1.1	WNW
20-Jul-2016	5:00	1.2	W
20-Jul-2016	6:00	1.1	WSW
20-Jul-2016	7:00	1.2	WSW
20-Jul-2016	8:00	2.1	WNW
20-Jul-2016	9:00	2.5	WNW
20-Jul-2016	10:00	3.5	WNW
20-Jul-2016	11:00	3.4	WSW
20-Jul-2016	12:00	3.6	WSW
20-Jul-2016	13:00	3.6	WSW
20-Jul-2016	14:00	3.2	SW
20-Jul-2016	15:00	2.8	W
20-Jul-2016	16:00	2.9	WNW
20-Jul-2016	17:00	2.3	WNW
20-Jul-2016	18:00	1.9	WSW
20-Jul-2016	19:00	1.7	WSW
20-Jul-2016	20:00	1.5	W
20-Jul-2016	21:00	1.2	WNW
20-Jul-2016	22:00	1.4	WNW
20-Jul-2016	23:00	1.2	WNW

21-Jul-2016	0:00	2.1	WNW
21-Jul-2016	1:00	2	WNW
21-Jul-2016	2:00	2.3	SW
21-Jul-2016	3:00	2.2	WSW
21-Jul-2016	4:00	2.1	WNW
21-Jul-2016	5:00	1.7	WNW
21-Jul-2016	6:00	1.2	WNW
21-Jul-2016	7:00	1	ENE
21-Jul-2016	8:00	1.3	SSE
21-Jul-2016	9:00	2.8	SSE
21-Jul-2016	10:00	2.8	ESE
21-Jul-2016	11:00	3.1	NNE
21-Jul-2016	12:00	2.8	E
21-Jul-2016	13:00	2.2	N
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21-Jul-2016	17:00	2.5	NNE
21-Jul-2016	18:00	1.5	W
21-Jul-2016	19:00	1	WNW
21-Jul-2016	20:00	0.9	WNW
21-Jul-2016	21:00	1.1	SW
21-Jul-2016	22:00	0.7	WSW
21-Jul-2016	23:00	0.8	WSW
22-Jul-2016	0:00	0.8	WNW
22-Jul-2016	1:00	1.2	E
22-Jul-2016	2:00	0.8	E
22-Jul-2016	3:00	0.9	E
22-Jul-2016	4:00	0.5	WNW
22-Jul-2016	5:00	0.6	WNW
22-Jul-2016	6:00	0.6	WNW
22-Jul-2016	7:00	0.9	W
22-Jul-2016	8:00	1.7	WNW
22-Jul-2016	9:00	1.6	WNW
22-Jul-2016	10:00	1.9	SW
22-Jul-2016	11:00	1.8	WSW
22-Jul-2016	12:00	2.9	WNW

22-Jul-2016	13:00	2.3	W
22-Jul-2016	14:00	2.3	W
22-Jul-2016	15:00	1.9	W
22-Jul-2016	16:00	1.9	NNE
22-Jul-2016	17:00	1.6	WNW
22-Jul-2016	18:00	1.6	Ν
22-Jul-2016	19:00	1.2	Ν
22-Jul-2016	20:00	1.4	NE
22-Jul-2016	21:00	1.6	SE
22-Jul-2016	22:00	1.4	Ν
22-Jul-2016	23:00	1.4	NNE
23-Jul-2016	0:00	1.7	NNE
23-Jul-2016	1:00	1.9	WNW
23-Jul-2016	2:00	1.4	W
23-Jul-2016	3:00	1.4	Ν
23-Jul-2016	4:00	1.5	NNE
23-Jul-2016	5:00	1.3	WNW
23-Jul-2016	6:00	1.4	Ν
23-Jul-2016	7:00	1.2	N
23-Jul-2016	8:00	1.7	NNE
23-Jul-2016	9:00	1.7	NE
23-Jul-2016	10:00	2.4	NE
23-Jul-2016	11:00	3.1	SSE
23-Jul-2016	12:00	3.2	NNE
23-Jul-2016	13:00	3	ENE
23-Jul-2016	14:00	3.4	ENE
23-Jul-2016	15:00	2.9	ENE
23-Jul-2016	16:00	2.7	ESE
23-Jul-2016	17:00	2.8	ESE
23-Jul-2016	18:00	1.8	SE
23-Jul-2016	19:00	2.1	SE
23-Jul-2016	20:00	1.9	SE
23-Jul-2016	21:00	1.9	SSE
23-Jul-2016	22:00	2.4	SE
23-Jul-2016	23:00	1.8	SE
24-Jul-2016	0:00	2.1	SE
		2.5	S

24-Jul-2016 2:00 2.3 NNW 24-Jul-2016 3:00 2.2 E 24-Jul-2016 4:00 2.1 ESE 24-Jul-2016 5:00 2.7 NNE 24-Jul-2016 6:00 2.1 N 24-Jul-2016 6:00 2.1 N 24-Jul-2016 7:00 1.9 NW 24-Jul-2016 8:00 2.2 NNW 24-Jul-2016 9:00 3 NNW 24-Jul-2016 10:00 3.5 E 24-Jul-2016 11:00 3.8 SE 24-Jul-2016 13:00 3.5 SSE 24-Jul-2016 14:00 3.4 SSW 24-Jul-2016 15:00 3 SSE 24-Jul-2016 16:00 3.4 SSW 24-Jul-2016 17:00 3.2 SSE 24-Jul-2016 18:00 1.6 SE 24-Jul-2016 19:00 1.4 SE 24-Jul-2016 <th></th> <th></th> <th>-</th> <th></th>			-	
24-Jul-2016 4:00 2.1 ESE 24-Jul-2016 5:00 2.7 NNE 24-Jul-2016 6:00 2.1 N 24-Jul-2016 7:00 1.9 NW 24-Jul-2016 8:00 2.2 NNW 24-Jul-2016 9:00 3 NNW 24-Jul-2016 10:00 3.5 E 24-Jul-2016 11:00 3.8 SE 24-Jul-2016 12:00 3.4 SE 24-Jul-2016 13:00 3.5 SSE 24-Jul-2016 14:00 3.4 SE 24-Jul-2016 16:00 3.4 SSW 24-Jul-2016 16:00 3.4 SSW 24-Jul-2016 16:00 3.4 SSW 24-Jul-2016 17:00 3.2 SSE 24-Jul-2016 18:00 1.6 SE 24-Jul-2016 20:00 1.8 SW 24-Jul-2016 21:00 1.6 S 24-Jul-20	24-Jul-2016	2:00	2.3	NNW
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25-Jul-2016	21:00	1.4	ENE
25-Jul-2016	22:00	1.6	ENE
25-Jul-2016	23:00	2.1	NNE
26-Jul-2016	0:00	2	NNE
26-Jul-2016	1:00	1.8	NNE
26-Jul-2016	2:00	1.1	NNE
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26-Jul-2016	6:00	0.4	N
26-Jul-2016	7:00	0.3	NNE
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26-Jul-2016	14:00	3.3	SSW
26-Jul-2016	15:00	3.1	S
26-Jul-2016	16:00	2.4	W
26-Jul-2016	17:00	1.9	WSW
26-Jul-2016	18:00	0.9	W
26-Jul-2016	19:00	1	WSW
26-Jul-2016	20:00	0.6	SSE
26-Jul-2016	21:00	0.6	SSW
26-Jul-2016	22:00	0.5	WSW
26-Jul-2016	23:00	0.6	NNE
27-Jul-2016	0:00	0.4	NNE
27-Jul-2016	1:00	0.4	NNE
27-Jul-2016	2:00	0.6	NE
27-Jul-2016	3:00	1.8	N

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	30-Jul-2016	5:00	1.4	SSW

30-Jul-2016	6:00	1.6	SSW
30-Jul-2016	7:00	2.2	W
30-Jul-2016	8:00	3.3	W
30-Jul-2016	9:00	3.1	WNW
30-Jul-2016	10:00	3.8	ESE
30-Jul-2016	11:00	3.8	NE
30-Jul-2016	12:00	3.6	NE
30-Jul-2016	13:00	3.6	NNE
30-Jul-2016	14:00	3	E
30-Jul-2016	15:00	3.4	NNE
30-Jul-2016	16:00	2.8	NNE
30-Jul-2016	17:00	3.1	ENE
30-Jul-2016	18:00	2.6	SSW
30-Jul-2016	19:00	2.1	SW
30-Jul-2016	20:00	2	NNE
30-Jul-2016	21:00	1.6	NE
30-Jul-2016	22:00	1.3	NW
30-Jul-2016	23:00	1.4	SSW
31-Jul-2016	0:00	2	SW
31-Jul-2016	1:00	2.1	NNE
31-Jul-2016	2:00	2	N
31-Jul-2016	3:00	2.1	N
31-Jul-2016	4:00	2	S
31-Jul-2016	5:00	2	NW
31-Jul-2016	6:00	2.1	SSW
31-Jul-2016	7:00	1.7	SW
31-Jul-2016	8:00	2.3	SW
31-Jul-2016	9:00	2.5	W
31-Jul-2016	10:00	3	SW
31-Jul-2016	11:00	2.6	WNW
31-Jul-2016	12:00	2.6	WNW
31-Jul-2016	13:00	2.9	W
31-Jul-2016	14:00	2.5	WNW
31-Jul-2016	15:00	2.7	NW
31-Jul-2016	16:00	2.4	WSW
31-Jul-2016	17:00	2.6	SW
31-Jul-2016	18:00	2	WSW

31-Jul-2016	19:00	1.9	SW
31-Jul-2016	20:00	1.5	SW
31-Jul-2016	21:00	1.6	W
31-Jul-2016	22:00	1.9	WNW
31-Jul-2016	23:00	1.8	WNW

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KL/2012/02 Kai Tak Development - Stage 3A Infrastructure at Former North Apron Area Impact Air and Noise Monitoring Schedule for June 2016

Sunday Monday Tuesday Wednesday Thursday Friday Image: Constraint of the state of	Saturday
	2-Jul
3-Ju 4-Ju 5-Ju 6-Ju 7-Ju 8-Ju	9-Jul
1 hr TSP X3	
NoiseNoise(M9)(M3, M4)	
24 hr TSP* 24 hr TSP (AM1)*	
10-Jul 11-Jul 12-Jul 13-Jul 14-Jul 15-Jul	16-Jul
	10 14
1 hr TSP X3	
Noise Noise	
(M9) (M3, M4) 24 hr TSP 24 hr TSP	
17-Jul 18-Jul 19-Jul 20-Jul 21-Jul 22-Jul	23-Jul
	25-54
1 hr TSP X3	
1 hr TSP X3	
Noise Noise	
(M3, M4) (M9)	
24-Jul 25-Jul 26-Jul 27-Jul 28-Jul 29-Jul	30-Jul
24-Jui 25-Jui 20-Jui 20-Jui 21-Jui 28-Jui 29-Jui	30-Jul
1 hr TSP X3	
Noise Noise	
(M9) (M3, M4)	
24 hr TSP	
31-Jul	
The schedule much schemest due to unformer eigenmentary of (scheme superhar, etc.)	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

*Remarks: Air quality monitoring (24-hr TSP) at Station AM1 on 5 July 2016 was rescheduled to 7 July 2016 due to power failure.

Air Quality Monitoring Station

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02 AM2 - Lee Kau Yan Memorial School

Noise Monitoring Station

M3 - Cognitio College M4 - Lee Kau Yan Memorial School M9 - Tak Long Estate

Contract No. KL/2012/02 Kai Tak Development - Stage 3A Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for August 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug
			1 hr TSP X3			
		Noise (M9) 24 hr TSP	Noise (M3, M4)			
7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug
		1 hr TSP X3				
	Noise (M9) 24 hr TSP	Noise (M3, M4)			24 hr TSP	
14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug
	1 hr TSP X3				1 hr TSP X3	
	Noise (M3, M4)			Noise (M9) 24 hr TSP		
21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug
				1 hr TSP X3		
			Noise (M9) 24 hr TSP	Noise (M3, M4)		
28-Aug	29-Aug	30-Aug	31-Aug			
			1 hr TSP X3			
		Noise (M9) 24 hr TSP	Noise (M3, M4)			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Air Quality Monitoring Station

Noise Monitoring Station

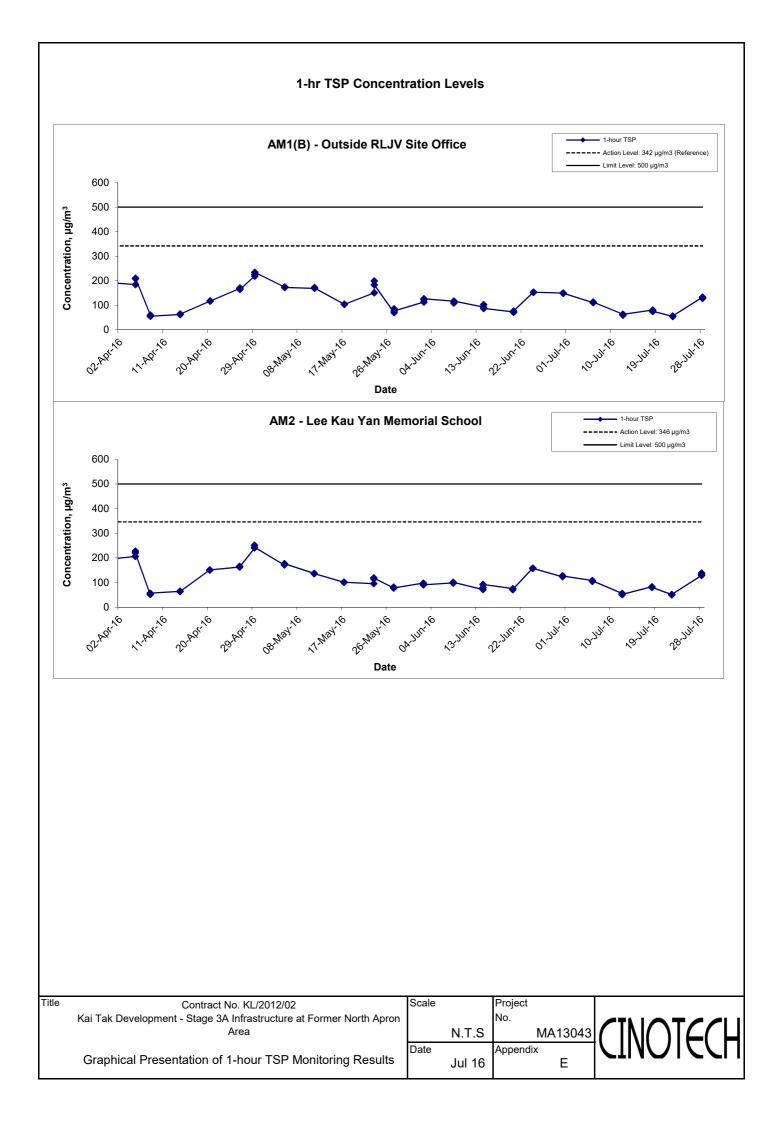
AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02 AM2 - Lee Kau Yan Memorial School M3 - Cognitio College M4 - Lee Kau Yan Memorial School M9 - Tak Long Estate

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Location AM1(E	B) - Outside I	RLJV Site Office	-
Date	Time	Weather	Particulate Concentration (µg/m3)
6-Jul-16	14:00	Cloudy	110.5
6-Jul-16	15:00	Cloudy	112.4
6-Jul-16	16:00	Cloudy	113.3
12-Jul-16	9:00	Cloudy	64.1
12-Jul-16	10:00	Cloudy	60.0
12-Jul-16	11:00	Cloudy	63.1
18-Jul-16	9:00	Sunny	80.6
18-Jul-16	10:00	Sunny	75.7
18-Jul-16	11:00	Sunny	75.5
22-Jul-16	9:00	Sunny	54.8
22-Jul-16	10:00	Sunny	55.5
22-Jul-16	11:00	Sunny	56.6
28-Jul-16	13:00	Sunny	133.4
28-Jul-16	14:00	Sunny	128.0
28-Jul-16	15:00	Sunny	131.5
		Average	87.7
		Maximum	133.4
		Minimum	54.8

Appendix E - 1-hour TSP Monitoring Results

Location AM2 -	Lee Kau Yar	n Memorial School	
Date	Time	Weather	Particulate Concentration (µg/m3)
6-Jul-16	8:45	Cloudy	108.2
6-Jul-16	9:45	Cloudy	104.7
6-Jul-16	10:45	Cloudy	107.1
12-Jul-16	13:00	Cloudy	55.9
12-Jul-16	14:00	Cloudy	51.1
12-Jul-16	15:00	Cloudy	51.8
18-Jul-16	13:00	Sunny	82.8
18-Jul-16	14:00	Sunny	81.1
18-Jul-16	15:00	Sunny	80.3
22-Jul-16	13:00	Sunny	51.2
22-Jul-16	14:00	Sunny	50.2
22-Jul-16	15:00	Sunny	51.5
28-Jul-16	9:00	Sunny	128.8
28-Jul-16	10:00	Sunny	132.5
28-Jul-16	11:00	Sunny	138.8
		Average	85.1
		Maximum	138.8
		Minimum	50.2



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM1(B) - Outside RLJV site office (KL/2012/02)

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
07-Jul-16	Sunny	302.1	757.8	3.4315	3.5440	0.1125	168.0	192.0	24.0	1.21	1.21	1.21	1738.4	64.7
11-Jul-16	Cloudy	300.7	754.5	3.2873	3.3503	0.0630	192.0	216.0	24.0	1.21	1.21	1.21	1738.6	36.2
15-Jul-16	Sunny	296.2	762.8	3.3613	3.4147	0.0534	216.0	240.0	24.0	1.22	1.22	1.22	1759.6	30.3
21-Jul-16	Sunny	302.3	761.4	3.3661	3.4138	0.0477	240.0	264.0	24.0	1.21	1.21	1.21	1741.6	27.4
27-Jul-16	Sunny	302.6	759.5	3.2715	3.3485	0.0770	264.0	288.0	24.0	1.21	1.21	1.21	1744.0	44.2
													Min	27.4
													Max	64.7
													Average	40.6

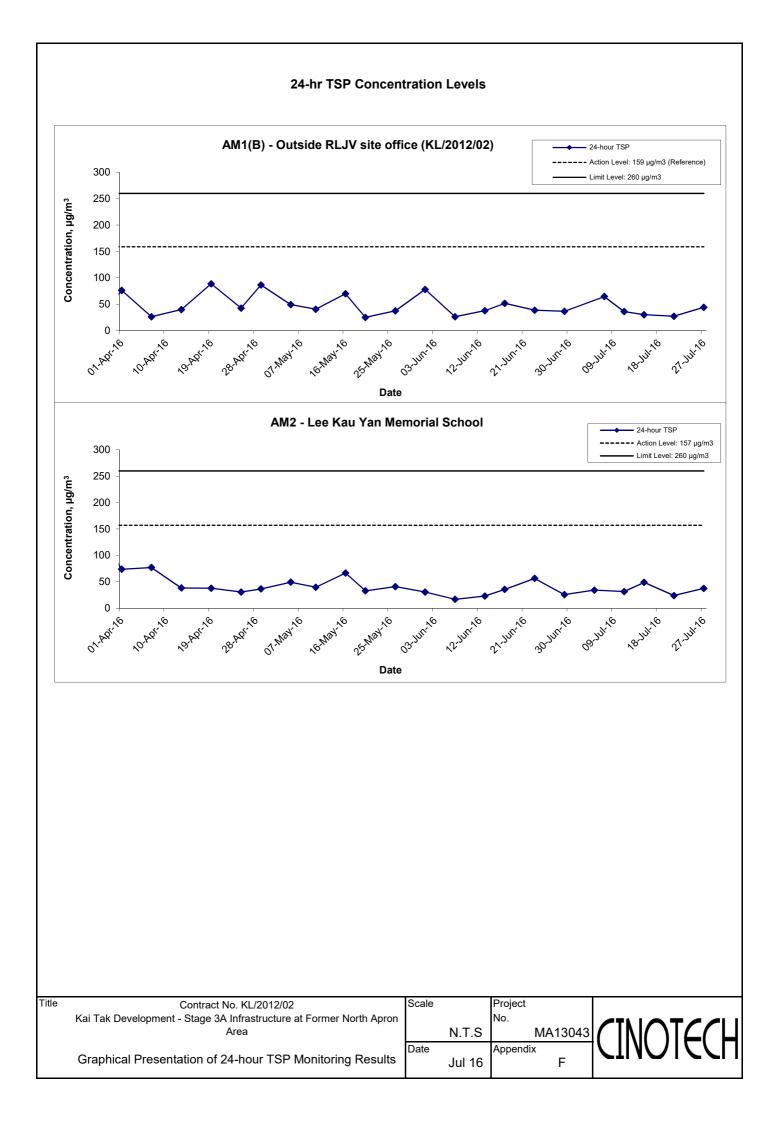
Location AM2 - Lee Kau Yan Memorial School

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
05-Jul-16	Sunny	300.9	758.1	3.4259	3.4858	0.0599	16699.0	16723.0	24.0	1.21	1.21	1.21	1747.8	34.3
11-Jul-16	Cloudy	300.9	754.8	3.3336	3.3885	0.0549	16723.0	16747.0	24.0	1.21	1.21	1.21	1743.6	31.5
15-Jul-16	Sunny	296.1	761.6	3.3143	3.4007	0.0864	16747.0	16771.0	24.0	1.23	1.22	1.23	1764.0	49.0
21-Jul-16	Sunny	302.8	761.7	3.3441	3.3859	0.0418	16771.0	16795.0	24.0	1.21	1.21	1.21	1745.8	23.9
27-Jul-16	Sunny	301.7	760.2	3.2817	3.3472	0.0655	16795.0	16819.0	24.0	1.21	1.21	1.21	1743.8	37.6
													Min	23.9

 Min
 23.9

 Max
 49.0

 Average
 35.2



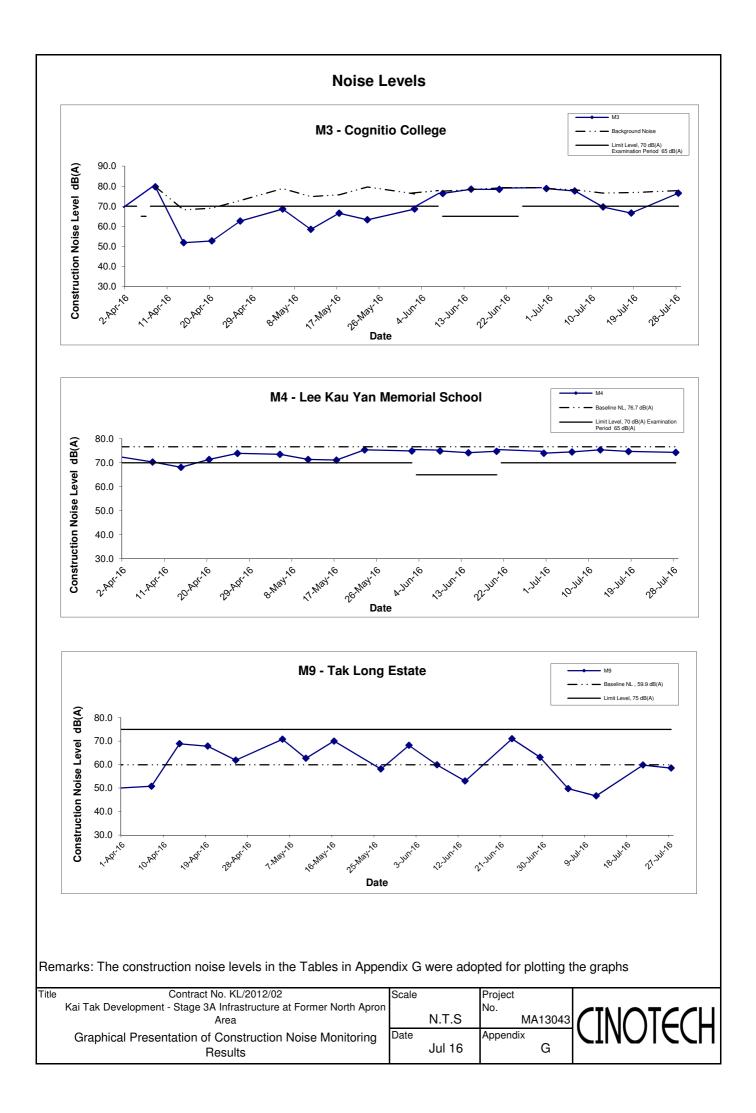
APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location M3 -	Location M3 - Cognitio College											
					Uni	it: dB (A) (30-min)						
Date	Date Time		Meas	sured Noise	Level	Background Noise	Construction Noise Level					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
6-Jul-16	13:00	Cloudy	77.6	79.8	76.1	78.2	77.6 Measured \leq Background					
12-Jul-16	15:00	Cloudy	77.4	78.8	75.8	76.6	69.7					
18-Jul-16	15:00	Sunny	77.2	78.0	75.6	76.8	66.6					
28-Jul-16	11:30	Sunny	76.5	78.9	74.8	77.8	76.5 Measured \leq Background					

Location M4 -	Location M4 - Lee Kau Yan Memorial School											
				Unit: dB (A) (30-min)								
Date	Date Time Weath		Meas	sured Noise	Level	Baseline Level	Construction Noise Level					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
6-Jul-16	09:00	Cloudy	74.5	76.2	72.8		74.5 Measured \leq Baseline					
12-Jul-16	13:05	Cloudy	75.4	77.3	72.5	76.7	75.4 Measured \leq Baseline					
18-Jul-16	13:05	Sunny	74.7	76.4	72.6	70.7	74.7 Measured \leq Baseline					
28-Jul-16	09:10	Sunny	74.3	75.5	73.2		74.3 Measured \leq Baseline					

Location M9 - Tak Long Estate											
				Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
5-Jul-16	13:00	Sunny	60.3	61.1	58.1		49.7				
11-Jul-16	13:00	Cloudy	60.1	61.5	58.5	50.0	46.6				
21-Jul-16	13:00	Sunny	59.8	61.6	57.8	59.9	59.8 Measured \leq Baseline				
27-Jul-16	13:00	Sunny	58.5	60.4	56.3		58.5 Measured \leq Baseline				



APPENDIX H SUMMARY OF EXCEEDANCE

Contract No. KL/2012/02 Kai Tak Development –Stage 3A Infrastructure at Former North Apron Area

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. KL/2012/02

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Landscape and Visual (NIL in the reporting month)

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	160706
Date	6 July 2016
Time	14:00 - 16:15

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
į.	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	1
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160628), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Janet Wai	the	6 July 2016
Checked by	Dr. Priscilla Choy	NE	6 July 2016

Checklist Reference Number	160713
Date	13 July 2016
Time	14:00 - 16:00

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160706), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Janet Wai	The	13 July 2016
Checked by	Dr. Priscilla Choy	NE	13 July 2016
	· · ·		

Checklist Reference Number	160720	
Date	20 July 2016	
Time	14:00 - 16:00	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
160720-R01	• The mud trail was observed near the tunnel access and CLP. The Contractor was reminded to clear the silt/mud properly and regularly.	В9
160720-R02	Properly clear the silt/sediment in the sedimentation tank at SW3 Pump House.	B 3iv
	C. Air Quality	
160720-R01	• The mud trail was observed near the tunnel access and CLP. The Contractor was reminded to clear the silt/mud properly and regularly.	C 3
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160713), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Janet Wai	Atte	20 July 2016
Checked by	Dr. Priscilla Choy	NI	20 July 2016

Checklist Reference Number	160726	
Date	26 July 2016	
Time	14:30 - 15:45	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
160726-R01	• The stockpiles of dusty materials should be covered by impervious material to prevent the dust emission at Luk Hop Street, near Prince Edward Road East, CLP and the RE's site office next to Concorde Road.	C 7
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
160726-R02	• The chemical containers should be provided with the drip tray in the site area of VT1.	E 9
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160720), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Janet Wai	the	26 July 2016
Checked by	Dr. Priscilla Choy	With	26 July 2016
	1		

APPENDIX J EVENT ACTION PLANS

Appendix J - Event Action Plans

Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Notify Contractor.	1. Rectify any unacceptable practice;
exceeded by	causes of exceedance;	by ET;		2. Amend working methods if
one sampling	2. Inform Contactor, IEC and ER;	2. Check Contractor's working		appropriate.
	3. Repeat measurement to confirm finding.	method.		
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Discuss with ET and IEC on proper
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	remedial actions;
two or more	2. Inform Contractor, IEC and ER;	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial
consecutive	3. Increase monitoring frequency to daily;	method;	3. In consolidation with the IEC,	actions to ER and IEC within three
sampling	4. Discuss with IEC and Contractor on	3. Discuss with ET and Contractor on	agree with the Contractor on the	working days of notification;
	remedial actions required;	possible remedial measures;	remedial measures to be	3. Implement the agreed proposals;
	5. Assess the effectiveness of	4. Advise the ER on the effectiveness	implemented;	4. Amend proposal if appropriate.
	Contractor's remedial actions;	of the proposed remedial measures.	4. Supervise implementation of	
	6. If exceedance continues, arrange		remedial measures;	
	meeting with IEC and ER;		5. Conduct meeting with ET and	
	7. If exceedance stops, cease additional		IEC if exceedance continues.	
	monitoring.			
Limit Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	further exceedance;
one sampling	2. Inform Contractor, IEC, ER, and EPD;	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET and IEC on proper
	3. Repeat measurement to confirm finding;	method;	3. In consolidation with the IEC,	remedial actions;
	4. Assess effectiveness of	3. Discuss with ET and Contractor on	agree with the Contractor on the	3. Submit proposals for remedial
	Contractor's remedial actions and keep	possible remedial measures;	remedial measures to be	actions to ER and IEC within three

	EPD, IEC and ER informed of	4. Advise the ER on the	implemented;	working days of notification;
	the results.	effectiveness of the proposed	4. Supervise implementation of	4. Implement the agreed proposals.
		remedial measures.	remedial measures;	
			5. Conduct meeting with ET and	
			IEC if exceedance continues.	
Limit Level being	1. Notify IEC, ER, Contractor and	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	EPD;	by ET;	of exceedance in writing;	further exceedance;
two or more	2. Repeat measurement to confirm	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET, ER and IEC on
consecutive	findings;	method;	3. In consolidation with the IEC,	proper remedial actions;
sampling	3. Carry out analysis of Contractor's	3. Discuss amongst ER, ET, and	agree with the Contractor on the	3. Submit proposals for remedial
	working procedures to identify source and	Contractor on the potential remedial	remedial measures to be	actions to IEC within three working
	investigate the causes of exceedance;	actions;	implemented;	days of notification;
	4. Increase monitoring frequency to	4. Review Contractor's remedial	4. Supervise implementation of	4. Implement the agreed proposals;
	daily;	actions whenever necessary to	remedial measures;	5. Submit further remedial actions if
	5. Arrange meeting with IEC, ER	assure their effectiveness and	5. If exceedance continues,	problem still not under control;
	and Contractor to discuss the	advise the ER accordingly.	consider stopping the Contractor	6. Stop the relevant portion of works
	remedial actions to be taken;		to continue working on that	as instructed by the ER until the
	6. Assess effectiveness of		portion of work which causes the	exceedance is abated.
	Contractor's remedial actions and		exceedance until the	
	keep EPD, IEC and ER informed		exceedance is abated.	
	of the results;			
	7. If exceedance stops, cease additional			
	monitoring.			

Event/Action Plan for Construction Noise

EVENT	ACTION				
	ET	IEC	ER	CONTRACTOR	
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation	
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;	
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation	
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.	
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be	
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after	
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)	
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;		
	check mitigation effectiveness.	(The above actions should be	4. Supervise the		
	(The above actions should be taken	taken within 2 working days after	implementation of remedial		
	within 2 working days after the	the exceedance is identified)	measures.		
	exceedance is identified)		(The above actions should be		
			taken within 2 working days		
			after the exceedance is		
			identified)		
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to	
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;	
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial	
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3	
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;	
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed	
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;	

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
		identified)	

Event/Action Plan for Landscape and Visual

EVENT			ACTION	
ACTION LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	1. Check final	1. Check report.	1. Undertake remedial design if necessary	
	design conforms to	2. Recommend		
	the requirements	remedial design if		
	of EP and prepare	necessary		
	report.			
Non-conformity on one occasion	1. Identify Source	1. Check report	1. Notify Contractor	1. Amend working methods
	2. Inform IEC and	2. Check Contractor's	2. Ensure remedial measures are properly	2. Rectify damage and
	ER	working method	implemented	undertake any necessary
	3. Discuss remedial	3. Discuss with ET and		replacement
	actions with IEC,	Contractor on possible		
	ER and Contractor	remedial measures		
	4. Monitor remedial	4. Advise ER on		
	actions until	effectiveness of		
	rectification has	proposed remedial		
	been completed	measures.		
		5. Check implementation		
		of remedial measures.		
Repeated Non-conformity	1. Identify Source	1. Check monitoring	1. Notify Contractor	1. Amend working methods
	Inform IEC and	report	2. Ensure remedial measures are properly	2. Rectify damage and

ER		2. Check Contractor's	implemented	undertake any necessary
2. Inc	ncrease	working method		replacement
mon	nitoring	3. Discuss with ET and		
frequ	quency	Contractor on possible		
3. Dis	iscuss remedial	remedial measures		
actic	ons with IEC,	4. Advise ER on		
ERa	and Contractor	effectiveness of		
4. Mo	Ionitor remedial	proposed remedial		
actic	ons until	measures		
recti	tification has	5. Supervise		
beer	en completed	implementation of		
5. If r	non-conformity	remedial measures.		
stop	os, cease			
addi	litional			
mon	nitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Mitigation Measures Types of Impacts Status 8 times daily watering of the work site with active dust \wedge emitting activities. Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts. · Stockpiling site(s) should be lined with impermeable * sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission. · Misting for the dusty material should be carried out \wedge before being loaded into the vehicle. · Any vehicle with an open load carrying area should \wedge have properly fitted side and tail boards. **Construction Dust** · Material having the potential to create dust should not be loaded from a level higher than the side and tail \wedge boards and should be dampened and covered by a clean tarpaulin. · The tarpaulin should be properly secured and should \wedge extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation. · The vehicles should be restricted to maximum speed \wedge of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. Onsite unpaved roads should be compacted and kept free of lose materials. Vehicle washing facilities should be provided at every \wedge

Appendix K - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

	vehicle exit point.	
	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.	^
	Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.	^
•	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	*
	<u>DWFI compound for JVBC</u> : a DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high	N/A

treat	iency deodorizers before discharge to the osphere. <u>ilting compound for KTN</u> : Two desilting pounds are proposed for KTN (at Site 1D6 and 1P1) to contain pollution in drainage systems ring the KTAC and KTTS by interception facilities the ultimate removal of the pollution sources. I barriers and desiliting facilities will form part of compounds to prevent any accumulation of ment within the downstream section of KTN and ce fully mitigate the potential odour emissions in the headspace of KTN near the existing harge locations. The odour generating operations in the proposed desilting compound will be fully osed and the odorous air will be collected and ted by high efficiency deodorizers before	N/A
<u>Dec</u> is p with the the com odo chai	harge to the atmosphere. <u>king or reconstruction of KTN within apron area:</u> it roposed to deck the KTN or reconstruct the KTN in the former Apron area into Kai Tak River from south of Road D1 to the north of Road D2 along existing alignment of KTN. The Kai Tak River will pose of a number of channels flowing with non- rous fresh water and THEES effluent. The nnel flowing with THEES effluent will be designed the width of water surface of not more than 16m.	N/A

 Localised maintenance dredging: Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth required would be from about 2.7m to less than 1m. The maintenance dredging to be carried out prior to the occupation of any new development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future ASRs during the maintenance dredging operation. 	
 Improvement of water circulation in KTAC and KTTS: 600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased. 	N/A
 <u>In-situ</u> sediment treatment by bioremediation: Bioremediation would be applied to the entire KTAC and KTTS. 	N/A

	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump	
	 Good Site Practice: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. 	^
	 Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. 	N/A(1)
	 Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in 	^
Construction Noise	intermittent use should be shut down between works periods or should be throttled down to a minimum.	^
Construction Noise	 Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 	^
	Scheduling of Construction Works during School Examination Period	^
	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A

	(i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A
	(ii) Provision of low noise surfacing in a section of Road L2& L4	N/A
	 (i) Provision of low noise surfacing in a section of Road L4 before occupation of Site 111; and 	N/A
	(ii) Setback of building about 5m from site boundary.	N/A
	Setback of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
9	 avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and 	N/A
	 (ii) for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not provide the facades with openable window. 	N/A
	 avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or 	N/A
	(ii) provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at less than 55m away from To Kwa Wan Road to no more than 25m above ground.	N/A
	 avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic noise impacts from the slip road 	N/A

All the ventilation fans installed in the below	w will be
provided with silencers or acoustics treatment.	N/A
(i) SPS	N/A
(ii) ESS	N/A
(iii) Tunnel Ventilation Shaft	N/A
(iv) EFTS depot	N/A
Installation of retractable roof or other e measures	equivalent N/A

Construction Water Quality	 The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including: Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. Construction Phase Marine-based Construction Matine-based Construction Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	N/A N/A N/A N/A
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Fireboat Berth, Runway Opening and Road T2	
Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling activities in open water. Dredging at and near the seawall area for construction of	۸ ۸
the public landing steps cum fireboat berth should be carried out at a maximum production rate of 1,000m ³ per day using one grab dredger.	
The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works. Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m ³ per day using one grab dredger.	Λ
Dredging for Road T2 should be conducted at a maximum rate of 8,000m ³ per day (using four grab dredgers) whereas the sand filling should be conducted at a maximum rate of 2,000m ³ per day (using two grab dredgers).	N/A (1)
Silt screens shall be applied to seawater intakes at WSD seawater intake.	٨

Land-based Construction

Construction Runoff

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:

- use of sediment traps
- adequate maintenance of drainage systems to prevent flooding and overflow

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Construction site should be provided with adequately designed perimeter channel and pre-treatment 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.

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 rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Λ
Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m ³ 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.	*
Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ 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.	
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.	^

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.	^
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.	^
All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. 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.	*
Drainage	
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.	^

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.	^
All fuel tanks and storage areas should be provided with locks and be located 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.	^
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.	^
Stormwater Discharges	
Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes	^

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	^
Construction Works at or in Close Proximity of Storm Culvert or Seafront	
The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	^
The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	^
Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	^
Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	^
Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.	^
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	^

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	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	^
	Construction effluent, site run-off and sewage should be properly collected and/or treated.	۸
	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	^
	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	^
	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	^
	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	^
	Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	^

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	Good Site Practices	
	It is not anticipated that adverse waste management	
	related impacts would arise, provided that good site	
	practices are adhered to. Recommendations for good site	
	practices during construction activities include:	
	 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	
	 Training of site personnel in proper waste 	^
	management and chemical waste handling	
	procedures	
	 Provision of sufficient waste disposal points and 	^
	regular collection for disposal	
	 Appropriate measures to minimise windblown litter 	^
	and dust during transportation of waste by either	~
	covering trucks or by transporting wastes in	
	enclosed containers	
		~
	 A recording system for the amount of wastes 	
	generated, recycled and disposed of (including the	
	disposal sites)	

Waste Reduction Measures	
Good management and control can prevent the generation of a significant amount of waste. Waste	
reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste	
 reduction include: Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 	Λ
 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 	^
 Encourage collection of aluminium 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 	Λ
 Any unused chemicals or those with remaining functional capacity should be recycled 	Λ
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials 	۸
Dredged Marine Sediment	
The basic requirements and procedures for dredged mud disposal are specified under the ETWB TCW No. 34/2002. The management of the dredging, use and disposal of marine mud is monitored by the MFC, while the licensing of marine dumping is required under the Dumping at Sea Ordinance and is the responsibility of the Director of Environmental Protection (DEP)	Λ

It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality:

 Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved

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- Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as specified by the DEP
- Barges or hopper barges should not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation

Construction and Demolition Material	
 Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront 	^
 or storm drains as far as possible Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric 	^
 Skip hoist for material transport should be totally enclosed by impervious sheeting 	^
 Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site 	^
 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 The load of dusty materials carried by vehicle 	^
 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 	^
 All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet 	^
 The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading 	^

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 he responsible for auditing the results of the system.

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

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 \wedge

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	CM1 All existing trees should be carefully protected during construction.	^
	CM2 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.	
Landscape and Visual	CM3 Control of night-time lighting.	N/A(1)
	CM4 Erection of decorative screen hoarding.	^

Remarks:	 Compliance of mitigation measure; 	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage; N/A(1) Not observed;	•Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.	

APPENDIX L SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Contract No. KL/2012/02 Kai Tak Development –Stage 3A Infrastructure at Former North Apron Area

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: July 2016

Contract No. KL/2012/02

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.

APPENDIX M SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actua	al Quantities of	C&D Wastes	Generated Mo	onthly
	Total Quantity Generated	Borken Concrete (4)	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
JAN	1.33977	0	0	0.89856	0.32871	0	0	0	0	0	0.11250
FEB	3.60932	0	0	3.47750	0.04472	0	0	0	0	0	0.08710
MAR	5.27182	0	0	5.08400	0.01982	0	0	0	0	0	0.16800
APR	8.34401	0	0	8.12400	0.00451	0	0	0	0	0	0.21550
MAY	15.66432	0	0	15.29400	0.04401	0	0	0	0	0	0.32632
JUNE	3.47485	0	0	3.34700	0.01415	0	0	0	0	0	0.11370
SUB- TOTAL	37.70411	0	0	36.22506	0.45594	0	0	0	0	0	1.02312
JULY	2.45816	0	0	1.83100	0.04076	0	0	0	0	0	0.58640
AUG											
SEPT											
ОСТ											
NOV											
DEC											
TOTAL	40.16228	0	0	38.05606	0.49670	0	0	0	0	0	1.60952

MONTHLY SUMMARY WASTE FLOW TABLE FOR 2016 (YEAR)

Forecast of Total Quantities of C&D materials to be Generated from the Contracts *											
Total	Borken	Reused in the	Reused in	Disposal as	Import Fill Metals	Paper /	Plastics (3)	Chemical	Other, e.g.		
Quantity	Concrete (4)	Contract	other	Public Fill		wietais	Cardboard	Flastics (3)	Waste	general	
[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]	
27.972	26.472	0	0	0	0	0	0.9	0	1.8	1.5	

Notes: (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 material.