Civil Engineering and Development Department

EP-344/2009 - New Sewage Pumping Stations Serving KTD and EP-337/2009 - New Distributor Roads Serving the Planned KTD

Contract No. KL/2010/03
Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Monthly EM&A Report April 2015 (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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TABLE OF CONTENTS

| | EXECUTIVE SUMMARY | |
|----|---|----|
| | Introduction | |
| | Environmental Monitoring Works | |
| | Environmental Licenses and Permits | |
| | Key Information in the Reporting Month Future Key Issues | |
| | · | |
| 1. | INTRODUCTION | 4 |
| | Background | 4 |
| | Project Organizations | 4 |
| | Construction Activities undertaken during the Reporting Month | |
| | Summary of EM&A Requirements | 6 |
| 2. | AIR QUALITY | 7 |
| | Monitoring Requirements | 7 |
| | Monitoring Locations | |
| | Monitoring Equipment | |
| | Monitoring Parameters, Frequency and Duration | |
| | Monitoring Methodology and QA/QC Procedure | |
| | Results and Observations | |
| 3. | NOISE | 13 |
| | Monitoring Requirements | |
| | Monitoring Locations | |
| | Monitoring Equipment | |
| | Monitoring Parameters, Frequency and Duration | |
| | Monitoring Methodology and QA/QC Procedures | 14 |
| | Maintenance and Calibration | |
| | Results and Observations. | |
| 4. | COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS | 17 |
| | | |
| 5. | LANDSCAPE AND VISUAL | 19 |
| | Monitoring Requirements | 19 |
| | Results and Observations | 19 |
| 6. | ENVIRONMENTAL AUDIT | 20 |
| | Site Audits | 20 |
| | Review of Environmental Monitoring Procedures | |
| | Status of Environmental Licensing and Permitting | |
| | Status of Waste Management | |
| | Implementation Status of Environmental Mitigation Measures | 22 |
| | Summary of Mitigation Measures Implemented | |
| | Implementation Status of Event Action Plans | |
| | Summary of Complaint, Warning, Notification of any Summons and Successful | |
| | Prosecution | 23 |
| 7. | FUTURE KEY ISSUES | 24 |
| | Key Issues for the Coming Month | 24 |
| | Monitoring Schedule for the Next Month | |
| | | |

| 8. | CONCLUSIONS AND RECOMMENDATIONS | 26 |
|----|---------------------------------|----|
| | Conclusions | 26 |
| | Recommendations | |

LIST OF TABLES

| Table I | Air Quality and Noise Monitoring Stations for this Project |
|-----------|--|
| Table II | Non-compliance Recorded for the Project in the Reporting Month |
| Table III | Summary Table for Key Information in the Reporting Month |
| Table 1.1 | Key Project Contacts |
| Table 1.2 | Construction Programme Showing the Inter-Relationship with Environmental |
| | Protection/Mitigation Measures |
| Table 2.1 | Locations for Air Quality Monitoring |
| Table 2.2 | Air Quality Monitoring Equipment |
| Table 2.3 | Impact Dust Monitoring Parameters, Frequency and Duration |
| Table 2.4 | Summary Table of Air Quality Monitoring Results during the reporting month |
| Table 3.1 | Noise Monitoring Stations |
| Table 3.2 | Noise Monitoring Equipment |
| Table 3.3 | Noise Monitoring Parameters, Frequency and Duration |
| Table 3.4 | Baseline Noise Level and Noise Limit Level for Monitoring Stations |
| Table 3.5 | Summary Table of Noise Monitoring Results during the Reporting Month |
| Table 4.1 | Comparison of 1-hr TSP data with EIA predictions |
| Table 4.2 | Comparison of 24-hr TSP data with EIA predictions |
| Table 4.3 | Comparison of Noise Monitoring Data with EIA predictions |
| Table 6.1 | Summary of Environmental Licensing and Permit Status |
| Table 6.2 | Observations and Recommendations of Site Inspections |
| | |

LIST OF FIGURES

| Figure 1 | Layout Plan of the Project Site |
|----------|---|
| Figure 2 | Locations of Air Quality Monitoring Stations |
| Figure 3 | Locations of Construction Noise Monitoring Stations |
| Figure 4 | Locations of Wind Anemometer |

LIST OF APPENDICES

| LIST OF AP | PENDICES |
|------------|--|
| A | Action and Limit Levels for Air Quality and Noise |
| В | Copies of Calibration Certificates |
| C | Weather Information |
| D | Environmental Monitoring Schedules |
| E | 1-hour TSP Monitoring Results, Graphical Presentations |
| F | 24-hour TSP Monitoring Results, Graphical Presentations |
| G | Noise Monitoring Results and Graphical Presentations |
| H | Summary of Exceedance |
| I | Site Audit Summary |
| J | Event Action Plans |
| K | Environmental Mitigation Implementation Schedule (EMIS) |
| L | Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution |
| M | Summary of Waste Generation and Disposal Records |
| | |

EXECUTIVE SUMMARY

Introduction

- 1. This is the 42nd Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2010/03-Kai Tak Development Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities" (Hereafter referred to as "the Project"). This contract comprises two Schedule 2 designated projects (DPs), namely the new sewage pumping station PS1A serving the planned KTD and the new distributor road D2 serving the planned KTD. The two DPs are part of the designated projects under Environmental Permit No.: EP-344/2009 ("New sewage pumping stations serving Kai Tak Development) and EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted in April 2015.
- 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).

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

| 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 | | | |
| M1 - Buddhist Chi King Primary School | Yes | N/A | |
| M2 - S.K.H. Kowloon Bay Kei Lok Primary School | Yes | N/A | |
| 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 | |

Remark:* The Contractor Site Office of KL/2012/02 occupied the same location of previous KL/2008/09 site office of and therefore the location of monitoring station AM1(B) is remain unchanged.

- 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 two EPs, 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:
 - Defect rectification works at sewage pumping station PS1A;
 - Backfilling works to Box culvert BC6 at Portion A (Concorde Road);
 - Modifying the alignment of cul-de-sac at Road L5;
 - Relocating the lighting poles and paving concrete block along pedestrian streets;
 - Lowering the top level of the existing desilting open of box culvert BC2 at amenity area; and
 - Carrying out the permanent drainage diversion at Portions N and A.

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.

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

| Parameter | No. of Project-rela | No. of Project-related Exceedance | | |
|---------------|---------------------|-----------------------------------|--------------|--|
| 1 at afficter | Action Level | Limit Level | Action Taken | |
| 1-hr TSP | 0 | 0 | N/A | |
| 24-hr TSP | 0 | 0 | N/A | |
| Noise | 0 | 0 | N/A | |

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,

Environmental Permits No. EP-344/2009 and EP-337/2009 were issued on 23 April 2009.

- 10. Registration of Chemical Waste Producer (License: 5213-286-P1079-04).
- 11. Water Discharge License (License No.: WT00011274-2011 and WT00011276-2011).
- 12. Construction Noise Permit (License No.: GW-RE0169-15).

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 | |

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;
 - 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 2 infrastructure works at North Apron Area of Kai Tak Airport for Public Housing and Government Office Developments is one of the construction stages of KTD. It contains various Schedule 2 DPs including new distributor roads serving the planned KTD and new sewage pumping stations serving the planned KTD. The general layout of the Project is shown in **Figure 1.**
- 1.2 Two Environmental Permits (EPs) No. EP-344/2009 and EP-337/2009 were also issued on 23 April 2009 for new sewage pumping stations serving the planned KTD and new distributor roads serving the planned KTD respectively 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 Peako Engineering Co., Ltd. (the Contractor) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2010/03 Kai Tak Development Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities. The construction work under KL/2010/03 comprises the construction of Road D2 & Sewage Pumping Station PS1A which forms a part of the works under two EPs (EP-337/2009 and EP-344/2009).
- 1.5 Cinotech Consultants Limited was commissioned by Peako Engineering Co., Ltd. To undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of this Contract was on 24th October 2011 for Sewage Pumping Station PS1A. This is the 42nd Monthly EM&A report summarizing the EM&A works for the Project in April 2015.

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 Ltd. (AnewR).
 - Contractor Peako Engineering Co., Ltd. (Peako).

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

Table 1.1 Key Project Contacts

| Party | Role | Contact Person | Position | Phone No. | Fax No. |
|----------|-----------------------------|--------------------|---------------------|-----------|-----------|
| CEDD | Project | Mr. Alfred Lee | Engineer | 2301 1449 | 2301 1277 |
| CLDD | Proponent | | | | |
| ARUP | Engineer's | Mr. Keith Cheung | SRE | 2756 8132 | 2756 8236 |
| AKUF | Representative | Ms. Gloria Kwok | RE | | |
| | | Dr. Priscilla Choy | Environmental Team | 2151 2089 | |
| | Cinotech Environmental Team | | Leader | 2131 2009 | |
| Cinotech | | Ms. Ivy Tam | Project Coordinator | | 3107 1388 |
| | 1 Cairi | | and Audit Team | 2151 2090 | |
| | | | Leader | | |
| | Independent | Mr. Adi Lee | Independent | | |
| AnewR | Environmental | | Environmental | 2618 2836 | 3007 8648 |
| | Checker | | Checker | | |
| Peako | Contractor | Mr. C.P. Lam | Project Manager | 27730511 | |

Construction Activities undertaken during the Reporting Month

- 1.8 The site activities undertaken in the reporting month included:
 - Defect rectification works at sewage pumping station PS1A;
 - Backfilling works to Box culvert BC6 at Portion A (Concorde Road);
 - Modifying the alignment of cul-de-sac at Road L5;
 - Relocating the lighting poles and paving concrete block along pedestrian streets;
 - Lowering the top level of the existing desilting open of box culvert BC2 at amenity area; and
 - Carrying out the permanent drainage diversion at Portions N and A.
- 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; 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 two EPs.
- 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 in April 2015.

2. AIR QUALITY

Monitoring Requirements

2.1 According to EM&A Manual under the two EPs, 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) ⁽¹⁾, 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**.

Table 2.1 Locations for Air Quality Monitoring

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

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

Note 1: The Contractor Site Office of KL/2012/02 occupied the same location of previous KL/2008/09 site office of and therefore the location of monitoring station AM1(B) is remain unchanged.

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**.

Table 2.2 Air Quality Monitoring Equipment

| Equipment | Model and Make | Quantity |
|-----------------------|---|----------|
| Calibrator | TISCH – TE-5025A | 2 |
| 1-hour TSP Dust Meter | Laser Dust Monitor – Model LD-3, LD-3B; Dust Monitor – Model AEROCET-531 | 7 |
| HVS Sampler | GMWS 2310 c/w of TSP sampling inlet | 2 |
| Wind Anemometer | Davis Weather Monitor II, Model no. 7440 | 2 |

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 Duration

| 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

Measuring Procedures

- 2.5 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:
 - The 1-hour dust meter is placed at least 1.3 meters above ground.
 - Set POWER to "ON" and make sure that the battery level was not flash or in low level.
 - Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
 - Push the knob at MEASURE position.
 - Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
 - Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
 - Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

- 2.6 The following maintenance/calibration was required for the direct dust meters:
 - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals 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 ±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 G25A 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 Lee Kau Yan Memorial School from 26 April 2013. 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 |
| | Site vehicle movement |

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

Table 2.4 Summary Table 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 Sit | e Office (KL/2012 | /02) | | |
| | 2-Apr-15 | 102.6 | | |
| | 2-Apr-15 | 107.6 | | |
| | 2-Apr-15 | 106.0 | | |
| | 8-Apr-15 | 176.8 | | |
| | 8-Apr-15 | 177.6 | | |
| | 8-Apr-15 | 181.5 | | |
| | 14-Apr-15 | 117.9 | | |
| | 14-Apr-15 | 104.7 | | |
| 1-hr TSP | 14-Apr-15 | 117.2 | 342 | 500 |
| 1-111 151 | 20-Apr-15 | 153.4 | | 300 |
| | 20-Apr-15 | 150.5 | | |
| | 20-Apr-15 | 156.6 | | |
| | 24-Apr-15 | 251.3 | | |
| | 24-Apr-15 | 258.9 | | |
| | 24-Apr-15 | 258.2 | | |
| | 30-Apr-15 | 95.1 | | |
| | 30-Apr-15 | 95.6 | | |
| | 30-Apr-15 | 97.1 | | |
| | 01-Apr-15 | 45.7 | | |
| | 07-Apr-15 | 45.5 | | |
| 24-hr TSP | 13-Apr-15 | 100.6 | 159 | 260 |
| 24-111 131 | 17-Apr-15 | 54.7 | 139 | 200 |
| | 23-Apr-15 | 61.6 | | |
| | 29-Apr-15 | 57.4 | | |
| AM2 – Lee Kau Yan Me | morial School | | | |
| | 2-Apr-15 | 98.7 | | |
| 1 h., TCD | 2-Apr-15 | 102.6 | 346 | 500 |
| 1-hr TSP | 2-Apr-15 | 103.9 | 340 | 300 |
| | 8-Apr-15 | 189.2 | | |

| | 8-Apr-15 | 191.1 | | |
|------------|-----------|-------|-----|-----|
| | 8-Apr-15 | 189.1 | | |
| | 14-Apr-15 | 80.6 | | |
| | 14-Apr-15 | 85.8 | | |
| | 14-Apr-15 | 90.3 | | |
| | 20-Apr-15 | 124.9 | | |
| | 20-Apr-15 | 138.8 | | |
| | 20-Apr-15 | 134.0 | | |
| | 24-Apr-15 | 249.7 | | |
| | 24-Apr-15 | 245.4 | | |
| | 24-Apr-15 | 248.8 | | |
| | 30-Apr-15 | 97.8 | | |
| | 30-Apr-15 | 93.1 | | |
| | 30-Apr-15 | 99.9 | | |
| | 01-Apr-15 | 83.4 | | |
| | 07-Apr-15 | 69.7 | | |
| 24-hr TSP | 13-Apr-15 | 135.8 | 157 | 260 |
| 24-III 13F | 17-Apr-15 | 71.5 | 137 | 200 |
| | 23-Apr-15 | 117.9 | | |
| | 29-Apr-15 | 73.2 | | |

3. NOISE

Monitoring Requirements

3.1 According to EM&A Manuals under the two EPs, 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 Six designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at five designated monitoring stations (M1, M2, M3, M4(A), M9) in the reporting month. **Figure 3** shows the locations of these stations.

Table 3.1 Noise Monitoring Stations

| Monitoring Stations | Locations | Location of Measurement |
|----------------------------|--|--------------------------------|
| M1 | Buddhist Chi King Primary School | 7/F Sport Area |
| M2 | S.K.H. Kowloon Bay Kei Lok Primary School | 7/F Podium |
| M3 | Cognitio College | Rooftop (about 6/F) Area |
| M4 | Lee Kau Yan Memorial College | Rooftop (about 7/F) Area |
| M9 | Tak Long Estate | 2/F Podium |
| #M10 | Site 1B4 (Planned) | - |

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

Monitoring Equipment

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

Table 3.2 Noise Monitoring Equipment

| Equipment | Model and Make | Qty. |
|-------------------------------|--------------------|------|
| Integrating Sound Level Meter | SVAN 955, 957 | 6 |
| Calibrator | SVAN 30A / B&K4231 | 4 |

Monitoring Parameters, Frequency and Duration

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

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

| Monitoring Stations | Parameter | Period | Frequency | Measurement |
|------------------------|---------------------------------|------------------|---------------|-------------|
| M1 | | 0700-1900 | | |
| M2 | $L_{10}(30 \text{ min.}) dB(A)$ | _ | Onaa nar | |
| M3 | L ₉₀ (30 min.) dB(A) | hrs on normal | Once per week | Façade |
| M4 | $L_{eq}(30 \text{ min.}) dB(A)$ | weekdays | WEEK | |
| M9 | | weekdays | | |

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
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 |
|------------------------|---|---|
| M1 | Buddhist Chi King Primary School | Traffic Noise |
| M2 | S.K.H. Kowloon Bay Kei Lok Primary School | Site vehicle movement |
| M3 | Cognitio College | Traffic Noise Daily school activities Construction Noise from nearby Construction Sites |
| 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) |
|---------|--|---|
| M1 | 64.4 (at 0700 – 1900 hrs on normal weekdays) | 70* (at 0700 – 1900 hrs on |
| M2 | 61.3 (at 0700 – 1900 hrs on normal weekdays) | normal weekdays) |
| M3 | 76.3 ⁽¹⁾ /78.6 ⁽²⁾ (at 0700 – 1900 hrs on normal weekdays) | 70* (at 0700 – 1900 hrs on normal weekdays) |
| M4 | 76.7 (at 0700 – 1900 hrs on normal weekdays) | 70* (at 0700 – 1900 hrs on 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 alternative monitoring plan was approved by the EPD on 21^{st} June 2013 to relocate the Noise Monitoring Stations from M3(A) – Kai Tak Operational Base (closed in mid of Year 2013) to M3 – Cognitio College with adopting the baseline noise level recorded at Rhythm Garden (i.e. 76.3dB(A)) as both locations were affected by comparative traffic amount from Edward Road East.

^{(2):} Since the request to conduct the noise monitoring at the Rooftop was approved by Cognitio College, a baseline noise review report was submitted under Schedule 3 EIA Project – Tak Tai Development (KLN/2010/04) for M3 and was approved by EPD on 23rd August 2013. (Baseline Level was found to be 78.6dB(A) at Rooftop of Cognitio College)

Monthly EM&A Report – April 2015

Table 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) | |
|---------------------------------------|---|---------------------------------|--|--|
| M1 – Buddhist Chi King Primary School | | | | |
| 1-Apr-15 | 70.8 | | 69.7 | |
| 10-Apr-15 | 64.9 | | 55.3 | |
| 15-Apr-15 | 67.4 | 64.4 | 64.4 | |
| 22-Apr-15 | 67.4 | | 64.4 | |
| 28-Apr-15 | 63.2 | | $63.2 \text{ Measured} \leq \text{Baseline}$ | |
| M2 – S.K.H. K | Towloon Bay Kei Lok Pr | rimary School | | |
| 1-Apr-15 | 70.0 | | 69.4 | |
| 10-Apr-15 | 68.6 | | 67.7 | |
| 15-Apr-15 | 67.1 | 61.3 | 65.8 | |
| 22-Apr-15 | 67.8 | | 66.7 | |
| 28-Apr-15 | 63.9 | | 60.4 | |
| M3 – Cognitio | College | | | |
| | | Background Noise ⁽²⁾ | | |
| 8-Apr-15 | 78.0 | 77.4 | 69.1 | |
| 14-Apr-15 | 78.6 | 79.0 | 78.6 Measured ≦ Background | |
| 20-Apr-15 | 79.7 | 79.6 | 63.3 | |
| 30-Apr-15 | 77.9 | 78.8 | 77.9 Measured ≦ Background | |
| M4 – Lee Kau | Yan Memorial College | | | |
| 8-Apr-15 | 74.4 | | 74.4 Measured ≦ Baseline | |
| 14-Apr-15 | 73.8 | 76.7 | 73.8 Measured ≦ Baseline | |
| 20-Apr-15 | 73.9 | 70.7 | 73.9 Measured ≦ Baseline | |
| 30-Apr-15 | 73.3 | | 73.3 Measured ≦ Baseline | |
| M9 – Tak Long | g Estate | | | |
| 2-Apr-15 | 65.4 | | 64.0 | |
| 8-Apr-15 | 67.4 | | 66.5 | |
| 13-Apr-15 | 70.9 | 59.9 | 70.5 | |
| 23-Apr-15 | 67.9 | | 67.2 | |
| 29-Apr-15 | 72.9 | (CNII) | 72.7 | |

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): Since the Background Noise Level recorded during the Lunch Hour of Construction Site (i.e. 12:00-13:00) on the same day of impact noise monitoring was considered more appropriate for compliance checking for Noise Action and Limit Level than the baseline noise level obtained during the baseline review in July 2013. The measurement of Background Noise Level at M3 was then commenced from 9 September 2013 to provide a referencing value for compliance checking for Noise Action and Limit Level.

Monthly EM&A Report – April 2015

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

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

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

| Station | Predicted 1-hr TSP conc. | | | |
|--|--|-----|-----|--|
| | Scenario1 (Mid Scenario2 (Mid Reporting Mon 2009 to Mid 2013 to Late (April 2015), 2013), μg/m3 2016), μg/m3 μg/m3 | | | |
| AM1(B) – Contractor Site Office of KL/2012/02 | 192 | 298 | 151 | |
| AM 2 – Lee Kau Yan Memorial School | 290 | 312 | 142 | |

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

| Station | Predicted 24-hr TSP conc. | | | |
|--|---|-------------------------------------|----|--|
| | Scenario1 (Mid 2009 to Mid 2013), µg/m3 | Reporting Month (April 2015), µg/m3 | | |
| AM1(B) – Contractor Site Office of KL/2012/02 | 121 | 156 | 61 | |
| AM2 – Lee Kau Yan Memorial School | 145 | 169 | 92 | |

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 (April 2015), Leq (30min) dB(A) |
|--|--|---|
| M1 - Buddhist Chi King Primary School | 51 – 68 | 55.3-69.7 |
| M2 - S.K.H. Kowloon Bay Kei Lok Primary School | 51 – 70 | 60.4-69.4 |
| M3 – Cognitio College | 47 – 75 | 63.3-78.6 ⁽¹⁾ |
| M4 – Lee Kau Yan Memorial School | 47 – 74 | 73.3-74.4 ⁽²⁾ |
| M9 – Tak Long Estate | N/A | 64.0-72.7 |

Note 1: The measured noise level would be compared to the background noise recorded on the same day of noise monitoring during the lunch hour of construction site (i.e. 12:00-13:00), as shown in Appendix G, for compliance checking.

Note 2: The recorded noise levels were considered non-valid exceedance of Noise Limit Level as the baseline level at noise monitoring station M4 was 76.7 dB(A).

- 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 monitoring stations M3 and M4 were higher than the predicted mitigated construction noise levels in the EIA report and lower than the referencing baseline level. This was due to the major noise source during monitoring, i.e. background road traffic noise at the monitoring stations.

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 1st, 9th, 17th, 22th and 29th April 2015 in the reporting month. IEC site inspections were conducted on 17th April 2015. 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

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- 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

| Downeit No | Valid Period | | Dotoila | Ctatura |
|--------------------------|--------------|----------|---|---------|
| Permit No. From | | To | Details | Status |
| Environmental Per | mit (EP) | | | |
| EP-344/2009 | 23/04/09 | N/A | Construction of a new sewage pumping station serving the planned Kai Tak development with installed capacity of more than 2,000 m³ per day and a boundary of which is less than 150m from an existing or planned residential area or educational institution. | |
| EP-337/2009 | 23/04/09 | N/A | Construction of new distributor roads serving the planned Kai Tak development. | Valid |
| Effluent Discharge L | icense | T | | |
| WT00011274-2011 | - | 31/12/16 | Industrial discharge (near Kai Tak Tunnel) | Valid |
| WT00011276-2011 | - | 31/12/16 | Industrial discharge (near Concorde Road) | Valid |
| Registration of Chem | ical Waste P | Producer | | |
| 5213-286-P1079-04 | - | N/A | Chemical Waste Types: Spent lubricating oil, spent solvent and spent battery containing heavy metals | Valid |
| Construction Noise P | ermit (CNP) |) | | |
| GW-RE0169-15 | 23/02/15 | 19/08/15 | Construction Noise Permit for the use of powered mechanical equipment for carrying out construction work other than percussive pilling and performing prescribed construction work at Construction site of Kai Tak Development at north apron area of Kai Tak Airport near Eastern Road. Box Culvert & Sewage Pumping Station No. PS1A, Kowloon | |

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**.
- 6.6 In respect of the dump truck cover, the Contractor is advised to take record photos and 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 | 17/04/15 | Sand bags should be placed to avoid water washed outside the site boundary. (Road L5) | Rectification/improvement was observed during the follow-up audit session. | |
| | 01/04/15 | Stockpile of dusty materials should be covered. (next to PS1A) | Rectification/improvement was observed during the follow-up audit session. | |
| Ain Ovality | 09/04/15 | Stockpile of dusty materials should be covered. (next to PS1A) | Rectification/improvement was observed during the follow-up audit session. | |
| Air Quality | 22/04/15 | Stockpile of dusty materials should be covered. (Near KTOB) | Follow-up status will be provided in the next reporting month. | |
| | 29/04/15 | Stockpile of dusty materials should be covered or sprayed with water. (Near KTOB) | Follow-up status will be provided in the next reporting month. | |
| Noise | | | | |
| Waste/Chemical Management | 01/04/15 | Oil containers should be provided with drip trays. (next to PS1A) | Rectification/improvement was observed during the follow-up audit session. | |
| | 01/04/15 | General refuse should be cleared in uchannel. (PS1A) | Rectification/improvement was observed during the follow-up audit session. | |
| | 09/04/15 | General refuse should be cleared in uchannel. (PS1A) | Rectification/improvement was observed during the follow-up audit session. | |
| Landscape and Visual | | | | |
| Permits /Licences | | | | |

Summary of Mitigation Measures Implemented

6.8 The monthly IEC audit was carried out on 17th April 2015, the observations were recorded and they are presented as follows:

Observations:

• At Kai Tak Second Lane – The contractor should place sandbags around site boundary to prevent site surface runoff from entry public areas and drainage system.

Follow-up of last observation:

- No observation recorded in the last inspection.
- 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:
 - Defect rectification works at sewage pumping station PS1A;
 - Backfilling works to Box culvert BC6 and road reinstatement of Concorde Road at Portion A;
 - Modifying the alignment of cul-de-sac at Road L5; and
 - Carrying out the outstanding paving works along pedestrian streets and amenity area.

Key Issues for the Coming Month

- 7.2 Key environmental issues in the coming month include:
 - 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;
 - Proper sorting of the construction waste;
 - Dust generation should be mitigated by adequate water spraying, especially in dry days;
 - Watering for dust generating activity and on haul road;
 - 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. May and June 2015 are summarized as follows:

| Construction Works | Major Impact | Control Measures |
|---------------------------|--------------------|---|
| | Prediction | |
| | Air quality impact | a) Frequent watering of haul road and unpaved/exposed |
| | (dust) | areas; |
| | | b) Frequent watering or covering stockpiles with tarpaulin or |
| | | similar means; and |
| | | c) Watering of any earth moving activities. |
| | Water quality | d) Diversion of the collected effluent to de-silting facilities |
| | impact (surface | for treatment prior to discharge to public storm water drains; |
| | run-off) | e) Provision of adequate de-silting facilities for treating |
| | | surface run-off and other collected effluents prior to |
| | | discharge; |
| As mentioned in | | f) Provision of perimeter protection such as sealing of |
| Section 7.1 | | 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. |

Contract No. KL/2010/03 – Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Monthly EM&A Report – April 2015

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.

1-hr TSP Monitoring

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.

Recommendations

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

Air Quality Impact

- To regularly maintain the quality of machinery and vehicles on site.
- To implement dust suppression measures on all haul roads, stockpiles, dry surfaces and excavation works.
- To provide hoarding along the entire length of that portion of the site boundary.
- To mitigate the dust generation by adequate water spraying in dry days.

Noise Impact

- To inspect the noise sources inside the site.
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers.
- To provide temporary noise barriers for operations of noisy equipment near the noise

sensitive receivers in an appropriate location.

• To well maintain the mechanical equipment/ machineries to avoid abnormal noise nuisance.

Water Impact

- To prevent any surface runoff discharge into any stream course.
- To review and implement temporary drainage system.
- To clear the silt and sediment in the sedimentation tanks.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To remove ponding and stagnant water regularly to avoid accumulation.
- To implement mitigation measure to prevent untreated water entering public drainage through gullies.

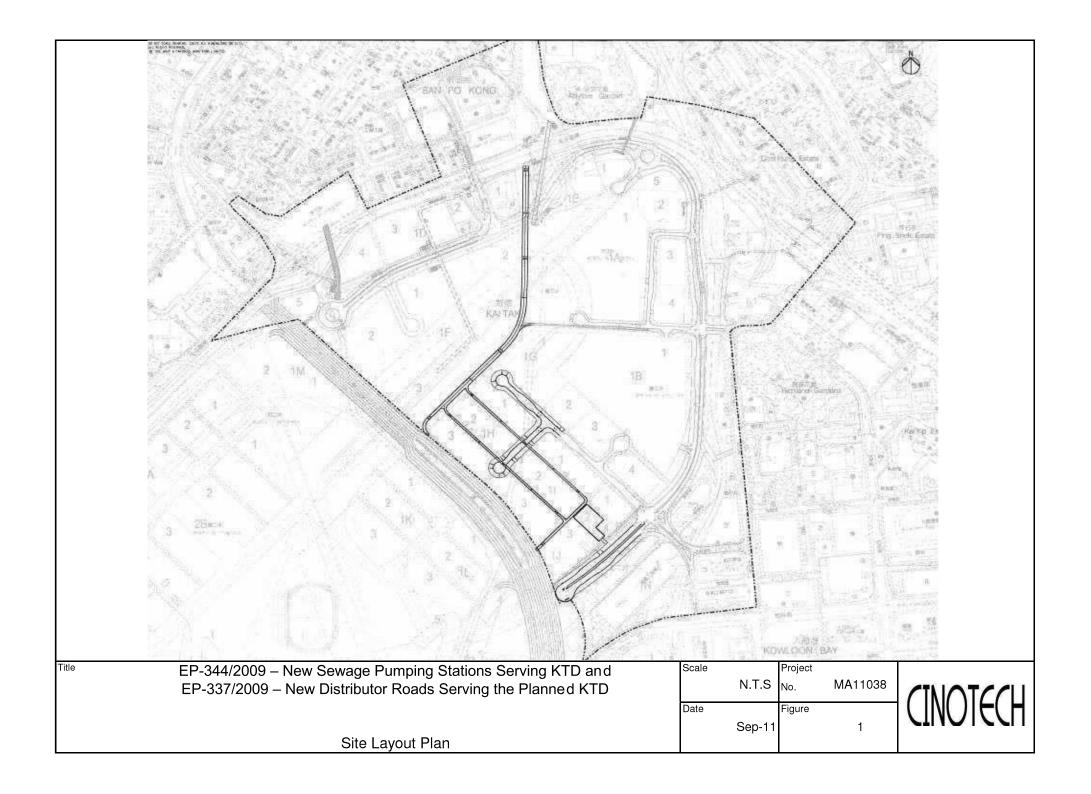
Waste/Chemical Management

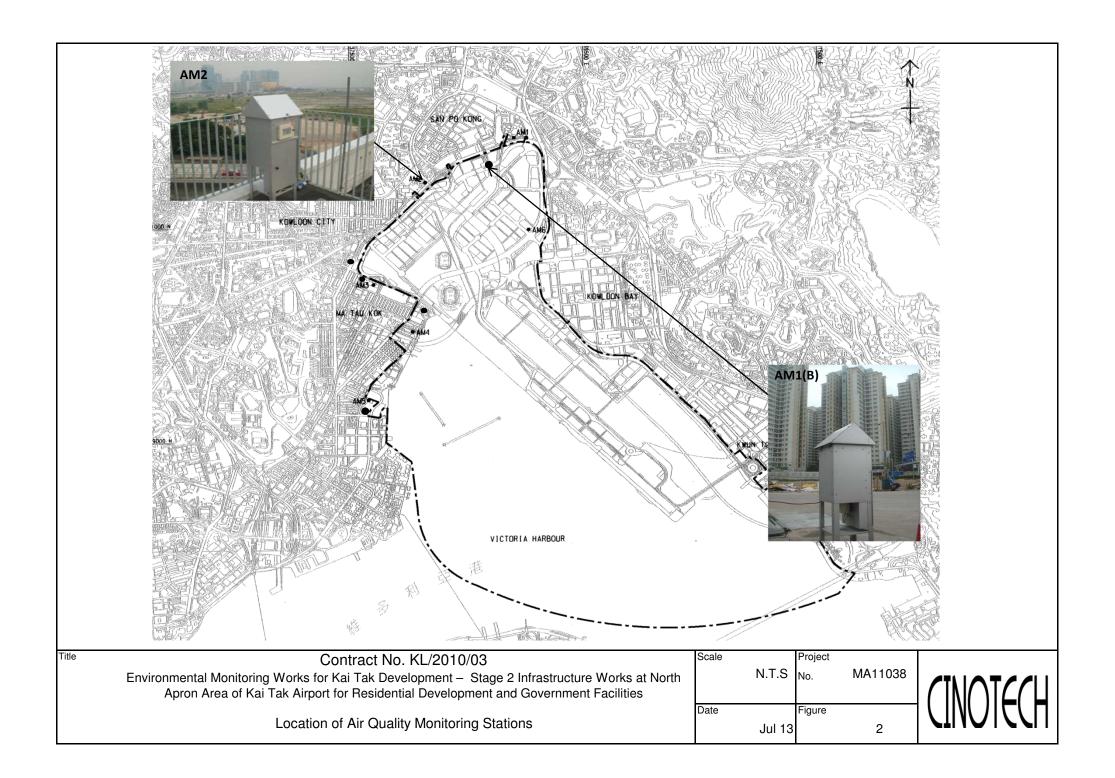
- To check for any accumulation of waste materials or rubbish on site.
- To ensure the performance of sorting of C&D materials at source (during generation);
- To carry out inspection of dump truck at site exit to ensure inert and non-inert C&D materials are properly segregated before removing off site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To provide proper storage area or drip trays for oil containers/ equipment on site with maintenance.
- To avoid improper handling or storage of oil drum on site.
- To keep machines and equipments in good condition to avoid oil leakage.

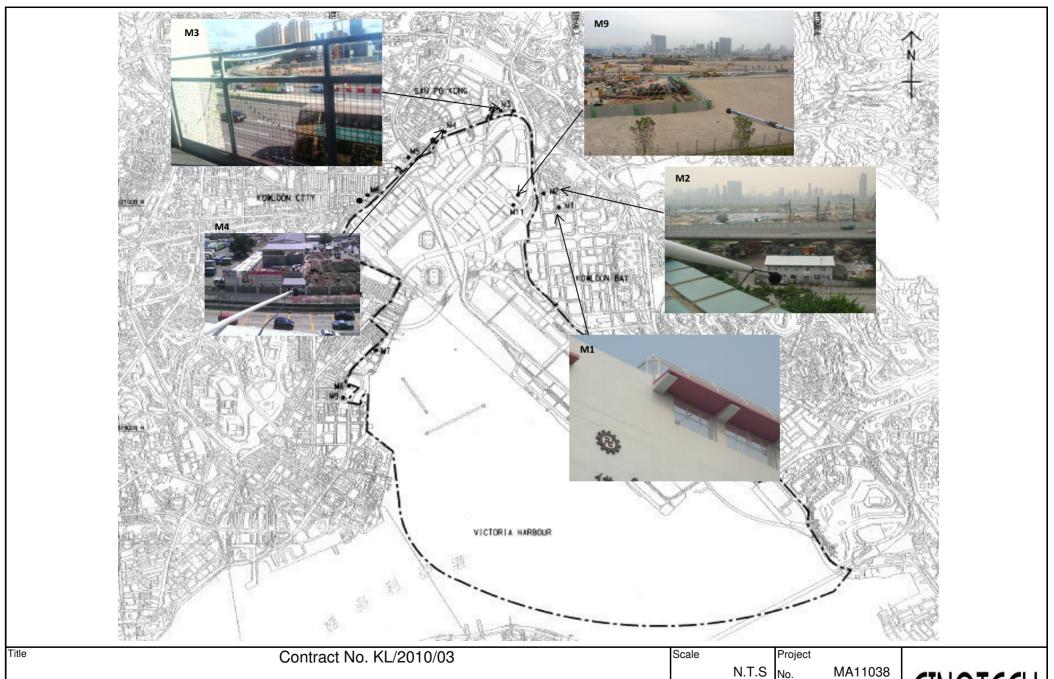
Landscape and Visual

- To protect the existing trees to be retained.
- To transplant the trees unavoidably affected by the works.
- To control of night-time lighting.
- To provide decorative screen hoarding.
- To complete landscape works at site area as early as possible.

FIGURES







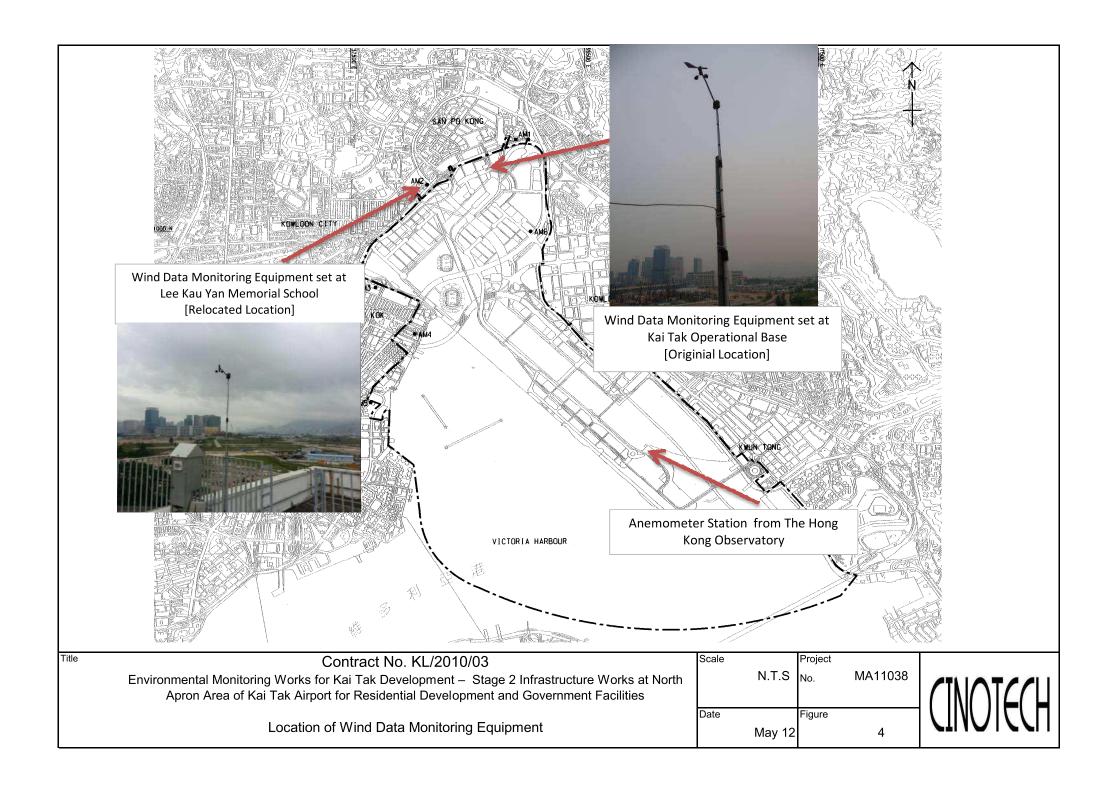
Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport

ai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airpoi for residential development and government, institution or community facilities

Noise Monitoring Stations under Contract No.: KL/2010/03

| Scale | | Project | |
|-------|--------|---------|---------|
| | N.T.S | No. | MA11038 |
| Date | | Figure | |
| | Apr-14 | | 3 |





APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

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

| Location | Action Level, μg/m³ | Limit Level, μg/m³ |
|----------|---------------------|--------------------|
| AM1(B) | 342 | 500 |
| AM2 | 346 | 500 |

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

| Location | Action Level, μg/m³ | Limit Level, μg/m³ |
|----------|---------------------|--------------------|
| AM1(B) | 159 | 260 |
| AM2 | 157 | 260 |

Table A-3 Action and Limit Levels for Construction Noise

| 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 | MA14008/58/0026 |
|---|----------------------------|------------------|-------------------------------|------------------------|---------------------------------|-------------|---------------------------------------|
| Station | AM1(B) - Outsid | e RLJV site offi | ce (KL/2008/09) | _ Operator: | WK | | |
| Date: | 18-Feb-15 | | | Next Due Date: | 17-Apr | -15 | |
| Equipment No.: | A-01-58 | | | Serial No. | 2357 | | |
| | | | | | | | |
| | | | | Condition | | | |
| Temperatu | re, Ta (K) | 290.4 | Pressure, Pa | a (mmHg) | | 768.5 | |
| | | Or | ifice Transfer St | andard Inform | ation | | |
| Equipme | ent No.: | A-04-06 | Slope, mc | 0.0593 | Intercep | t, bc | -0.0218 |
| Last Calibra | | 4-Feb-15 | | me x Qstd + h | $c = [\Delta H \times (Pa/76)]$ | | l ^{1/2} |
| Next Calibr | | 3-Feb-16 | | | x (Pa/760) x (298 | | |
| | - | | | | | | |
| | | | Calibration of | f TSP Sampler | | | |
| Calibration | | Ori | fice | | | HVS | 1/2 |
| Point | ΔH (orifice), in. of water | [ΔH x (Pa/76 | 0) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | [ΔW x (Pa/7 | 60) x (298/Ta)] ^{1/2} Y-axis |
| 1 | 11.7 | 3 | .48 | 59.13 | 8.2 | | 2.92 |
| 2 | 9.6 | 3 | .16 | 53.59 | 6.4 | | 2.58 |
| 3 | 7.4 | 2 | .77 | 47.10 | 5.2 | | 2.32 |
| 4 | 5.1 | 2 | .30 | 39.16 | 3,3 | | 1.85 |
| 5 | 3.4 | 1 | .88 | 32.04 | 2.2 | | 1.51 |
| By Linear Regi Slope , mw = Correlation o | | 0.9 | 984 | Intercept, bw | -0.148 | 34 | |
| *If Correlation (| Coefficient < 0.99 |), check and rec | alibrate. | | | | |
| | | | Set Point (| Calculation | | | |
| From the TSP F | ield Calibration C | rve, take Ostd = | | Circulation | | | |
| | ssion Equation, the | | | | | | |
| 9 | , | | - | | | | |
| | | mw x (| $Qstd + bw = [\Delta W]$ | x (Pa/760) x (2 | 298/Ta)] ^{1/2} | | |
| Therefore, S | Set Point; W = (m | w x Qstd + bw)² | x (760 / Pa) x (| Ta / 298) = | 4.13 | | |
| | | | | | | | |
| | | | | | | | |
| Remarks: | | | | 18.11 | | | |
| | | | | } | | | |
| | . 1/1 70 | o: . | L | | | Data | 1.0/2./15 |
| Conducted by: | Lin-lang | Signature: | /1 W | iai / | - | Date: | 18 February dols |
| Checked by: | - (tr | Signature: | | \sim | - | Date: | 1 OF CLARRY XOIS |

CINOTECH

| | | | | | | File No | MA14008/58/0027 |
|-------------------------|---|----------------|---|------------------------|----------------------------------|-----------------------------|---|
| Station | AM1(B) - Outsic | le RLJV site o | ffice (KL/2008/09) | Operator: | WK | | |
| Date: | 14-Apr-15 | | _ | vext Due Date: | 13-Jun- | -15 | |
| Equipment No.: | A-01-58 | | _ | Serial No. | 2357 | | |
| | | | Ambient (| Condition | | | |
| Temperati | ıre, Ta (K) | 295.7 | Pressure, Pa | | | 768 | |
| <u> </u> | | | | · | | | |
| | | (| Orifice Transfer Sta | ndard Inform | nation | | |
| Equipm | ent No.: | A-04-06 | Slope, mc (CFM) | | Intercep | | -0.02195 |
| Last Calibr | ation Date: | 4-Feb-15 | | mc x Qstd + l | $bc = [\Delta H \times (Pa/76)]$ | 60) x (298/Ta) | d ^{1/2} |
| Next Calib | ration Date: | 3-Feb-16 | | $Qstd = \{ \Delta H $ | x (Pa/760) x (298 | /Ta)] ^{1/2} -bc} / | me |
| | | • | | | | | |
| | | | Calibration of | TSP Sampler | | | |
| Calibration | | C | rfice | | | HVS | |
| Point | ΔH (orifice), in. of water | [ΔH x (Pa/7 | /60) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of water | [ΔW x (Pa/7 | 60) x (298/Ta)] ^{1/2} Y- axis |
| 1 | 11.7 | | 3.45 | 58.62 | 7.8 | | 2.82 |
| 2 | 9.7 | | 3.14 | 53,40 | 6.4 | | 2.55 |
| 3 | 7.6 | | 2.78 | 47.31 | 5.1 | | 2.28 |
| 4 | 5.4 | | 2.35 | 39.94 | 3.3 | | 1.83 |
| 5 | 3.3 | | 1,83 | 31.30 | 2.0 | | 1.43 |
| Slope, mw = Correlation | ression of Y on X 0.0515 coefficient* = Coefficient < 0.99 | . 0 | ,9991 | Intercept, bw | -0.191 | 18 | |
| | | | | | | | |
| | | | Set Point C | alculation | | ggyalt red led elegationes | |
| | ield Calibration C | - | | | | | |
| From the Regre | ssion Equation, th | e "Y" value ac | cording to | | | | |
| | | mw z | $\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ | x (Pa/760) x (2 | 298/Ta)] ^{1/2} | | |
| | | | | ` , ` | 7- | | |
| Therefore, S | Set Point; W = (m | w x Qstd + bw |) ² x (760 / Pa) x (7 | Γa / 298) = | 4.01 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Remarks: | - | | | | | | |
| | | | | | | | |
| | 1. ~ | | L | / | | - | ad. 1-5 |
| Conducted by: | WK, lang | Signature: | /JLW | ai/ | _ | Date: | 1414115 |
| Checked by | · H | Signature: | ſ | \bigvee | | Date: | 14 Mast 006 |



| Station | AMO Lee Ven | Van Mamarial C | ahaal | Operator | WK | _ | MA14008/59/0028 | | |
|-----------------------------------|----------------------------|-----------------------------|-----------------------------------|---|---------------------------------------|-----------------|---|--|--|
| Date: | 18-Feb-15 | Lee Kau Yan Memorial School | | | | _ | | | |
| | | | | Next Due Date: 17-Apr- Serial No. 2354 | | | | | |
| Equipment No.: | A-01-39 | | • | Sellai 190. | 2334 | | | | |
| | | | Ambient | Condition | | | | | |
| Temperatu | re, Ta (K) | 291,5 | Pressure, Pa | ı (mmHg) | | 767.9 | | | |
| 2840 People and a 2840 April 2860 | | | | | | | | | |
| | | | rifice Transfer Sta | | | | | | |
| Equipme | 1 | A-04-06 | Slope, mc | 0.0593 | Intercept | | -0.0218 | | |
| Last Calibra | ation Date: | 4-Feb-15 | | | $oc = \Delta H \times (Pa/76)$ | | | | |
| Next Calibra | ation Date: | 3-Feb-16 | | $Qstd = \{ [\Delta H] \}$ | x (Pa/760) x (298 | /Ta)]*** -bc} / | mc | | |
| | | | | | | | | | |
| | i | | Calibration of | TSP Sampler | <u> </u> | | | | |
| Calibration | 477 (100) | 1 | fice | O-44 (OD) 5 | 4 227 | HVS | (0) (200/17. \11/2 \ \17. | | |
| Point | ΔH (orifice), in. of water | [ΔH x (Pa/76 | 0) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | [ΔW x (Pa/76 | 50) x (298/Ta)] ^{1/2} Y- axis | | |
| 1 | 11.9 | 3 | 3.51 | 59.49 | 8.1 | | 2.89 | | |
| 2 | 9.6 | | 3.15 | 53.47 | 6.7 | | 2.63 | | |
| 3 | 7.4 | 2 | 2.76 | 46.99 | 5.2 | | 2.32 | | |
| 4 | 5.1 | 2 | 2.30 | 39.07 | 3.3 | | 1.85 | | |
| 5 | 3,4 |] | 1.87 | 31.97 | 2.1 | | 1.47 | | |
| Slope, mw = Correlation c | | - 0.9 | 985 | Intercept, bw | -0.185 | 57 | | | |
| | | | | ranasanan tari | | | | | |
| | | | | Calculation | | | | | |
| | eld Calibration C | | | | | | | | |
| From the Regres | sion Equation, th | e "Y" value acco | rding to | | | | | | |
| | | mw x (| $Qstd + bw = [\Delta W]$ | x (Pa/760) x (2 | 298/Ta)] ^{1/2} | | | | |
| | | _ | | • | | | | | |
| Therefore, Se | et Point; W = (m | w x Qstd + bw) | ² x (760 / Pa) x (' | Ta / 298)= | 4.13 | <u> </u> | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
| | | | |) | · · · · · · · · · · · · · · · · · · · | | | | |
| Onn diversity to | IN TOWA | Claustone | Ki. | vail | | Date: | 18/2/15 | | |
| Conducted by: | WK lang | Signature: | 110 | uw J | • | Date. | 18 February d. | | |

CINOTECH

| | | | | | | File No | MA14008/59/0029 |
|----------------------------|----------------------------|--------------------------|---|---|---------------------------------|-----------------------------|---|
| Station | AM2 - Lee Kau | Yan Memorial | School | Operator: | WK | | |
| Date: | 14-Apr-15 | | | Next Due Date: | | 15 | |
| Equipment No.: | A-01-59 | | | Serial No. | 2354 | | |
| | | | Ambient | Condition | | | |
| Temperatu | re, Ta (K) | 296.4 | Pressure, Pa | ***** | | 768 | |
| | | | | | | | |
| | | (| Prifice Transfer St | andard Inform | ation | | |
| Equipme | ent No.: | A-04-06 | Slope, mc (CFM) | 0.0593 | Intercep | , bc | -0.02195 |
| Last Calibr | | 4-Feb-15 | | | $c = [\Delta H \times (Pa/76)]$ | | |
| Next Calibr | ation Date: | 3-Feb-16 | | $\mathbf{Qstd} = \{ [\Delta \mathbf{H}] \}$ | x (Pa/760) x (298 | /Ta)] ^{1/2} -bc} / | me |
| | | | | | | · | |
| | | | Calibration of | TSP Sampler | | | |
| Calibration | | O | rfice | | | HVS | |
| Point | ΔH (orifice), in. of water | [ΔH x (Pa/7 | 60) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of water | [ΔW x (Pa/7 | 60) x (298/Ta)] ^{1/2} Y- axis |
| 1 | 11.4 | | 3.40 | 57.80 | 7.8 | | 2.82 |
| 2 | 9.7 | | 3.14 | 53.34 | 6.4 | | 2,55 |
| 3 | 7.5 | | 2.76 | 46.95 | 5.0 | | 2.25 |
| 4 | 5.3 | | 2.32 | 39.53 | 3.3 | | 1.83 |
| 5 | 3.4 | | 1.86 | 31.73 | 2.1 | | 1,46 |
| Slope , mw = Correlation o | | 0. | .9994 calibrate. | Intercept, bw : - | -0.198 | 33 | |
| | | erpekokokokokokokok | | | | | |
| | | | | Calculation | | | |
| | ield Calibration C | | | | | | |
| From the Regres | ssion Equation, the | e "Y" value acc | ording to | | | | |
| | | mw x | $\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ | x (Pa/760) x (2 | 98/Ta)] ^{1/2} | | |
| Therefore, S | Set Point; W = (m | w x Qstd + bw |) ² x (760 / Pa) x (| Ta / 298)= | 4.07 | | |
| Remarks: | | | | | | , | |
| Conducted by: | Luk Jang | Signature: Signature: | Kw | ail | - | Date: | 14/4/15 14 Bpil 2015 |



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

Description Calibration Orifice

Serial No.

0993

Model No.

TE-5025A

Date

27 September 2014

Manufacturer

TISCH

Temperature, Ta (K)

299

Pressure, Pa (mmHg)

761.8

Equipment No.:

A-04-04

| Plate | Diff.Vol (m ³) | Diff.Time (min) | Diff.Hg (mm) | Diff.H ₂ O (in.) |
|-------|----------------------------|-----------------|--------------|-----------------------------|
| 1 | 1.00 | 1.4230 | 3.3 | 2.00 |
| 2 | 1.00 | 1.0050 | 6.5 | 4.00 |
| 3 | 1.00 | 0.8950 | 8.2 | 5.00 |
| 4 | 1.00 | 0.8570 | 9.0 | 5.50 |
| 5 | - 1.00 | 0.7080 | 13.0 | 8.00 |

DATA TABULATION

| Vstd | (X axis) Qstd | (Y axis) |
|--------|------------------|----------|
| 0.9947 | 0.6990 | 1.4135 |
| 0.9905 | 0.9856 | 1.9990 |
| 0.9883 | 1.1042 | 2.2350 |
| 0.9872 | 1.1519 | 2.3441 |
| 0.9820 | 1.3870 | 2.8270 |

Y axis= SQRT[H₂O(Pa/760)(298/Ta)]

Qstd Slope (m) = 2.05398

Intercept (b) = -0.02487

Coefficient (r) = 0.99996

| Va | (X axis) | (Y axis) |
|--------|----------|----------|
| | Qa | |
| 0.9957 | 0.6997 | 0.8860 |
| 0.9915 | 0.9865 | 1.2530 |
| 0.9892 | 1.1053 | 1.4009 |
| 0.9882 | 1.1531 | 1.4693 |
| 0.9829 | 1 3883 | 1 7720 |

Y axis= SQRT[H₂O(Ta/Pa)]

Qa Slope (m) = 1.28617

Intercept (b) = -0.01559

Coefficient (r) = 0.99996

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=I/m{[SQRT(H₂O(Pa/760)(298/Ta))]-b}

Qa=I/m{[SQRT H2O(Ta/Pa)]-b}

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

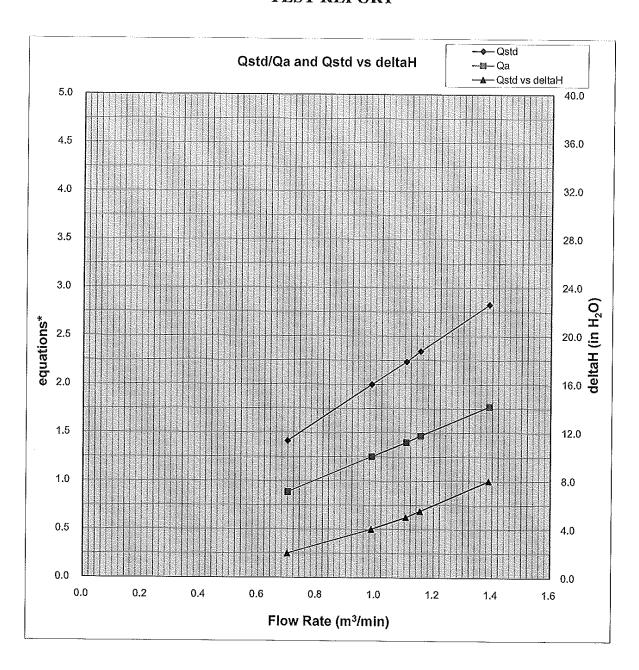
PATRICK TSE

Laboratory Manager



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT



Y-axis equations:

Qstd series: $SQRT[\Delta H(Pa/Pstd)(Tstd/Ta)]$

Qa series: SQRT[∆H(Ta/Pa)]



Epaphent No. A. 04.06

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 - Fe Operator | eb 04, 2015 Tisch | Rootsmeter Orifice I.I | | 438320 2896 | Ta (K) - Pa (mm) - | 293 - 756.92 |
|-----------------------|----------------------------|----------------------------|------------------------------|--|----------------------------------|--------------------------------------|
| 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 | 1.4590 1.0330 0.9250 0.8800 0.7260 | 3.2 6.4 7.9 8.8 12.7 | 2.00 4.00 5.00 5.50 8.00 |

DATA TABULATION

| | | | 10 | | | |
|--|--|--|----|--|--|--|
| Vstd | (x axis) Qstd | (y axis) | | Va | (x axis) Qa | (y axis) |
| 1.0086 1.0044 1.0023 1.0011 0.9959 | 0.6913 0.9723 1.0835 1.1377 1.3718 | 1.4233 2.0129 2.2505 2.3603 2.8467 | | 0.9958 0.9916 0.9895 0.9884 0.9832 | 0.6825 0.9599 1.0697 1.1231 1.3542 | 0.8799 1.2443 1.3912 1.4591 1.7598 |
| Qstd slop intercept coefficie | (b) = | 2.09317 -0.02195 0.99997 | | Qa slope intercept coefficie | t (b) = | 1.31071 -0.01357 0.99997 |
| y axis = | SQRT [H2O (1 | 2a/760)(298/5 | [| y axis = | SQRT [H2O (| га/Ра)] |

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



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

| Test Report No.: | C/141011A |
|------------------|------------|
| Date of Issue: | 2014-10-11 |
| Date Received: | 2014-10-11 |
| Date Tested: | 2014-10-11 |
| Date Completed: | 2014-10-11 |
| Next Due Date: | 2015-04-10 |

ATTN:

Mr. W.K. Tang

Page:

1 of 2

Certificate of Calibration

Item for calibration:

Description

: Weather Monitor II

Manufacturer

: Davis Instruments

Model No.

: 7440

Serial No.

: MC20813A11

Test conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 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



TEST REPORT

| Test Report No.: | C/141011A |
|------------------|------------|
| Date of Issue: | 2014-10-11 |
| Date Received: | 2014-10-11 |
| Date Tested: | 2014-10-11 |
| Date Completed: | 2014-10-11 |
| Next Due Date: | 2015-04-10 |

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 Direction (°) | | Difference D (°) |
|-------------------------|----------------------|------------------|
| Instrument Reading (W1) | Reference Value (W2) | D = W1 - W2 |
| 0 | 0 | 0 |
| 45.1 | 45 | 0.1 |
| 90.3 | 90.5 | -0.2 |
| 134.8 | 135 | -0.2 |
| 180.1 | 180 | 0.1 |
| 225.2 | 225 | 0.2 |
| 270.2 | 270 | 0.2 |
| 315 | 315 | 0 |
| 359.8 | 360 | -0.2 |



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Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/150228A
Date of Issue: 2015-02-28
Date Received: 2015-02-28
Date Tested: 2015-02-28
Date Completed: 2015-02-28

Next Due Date:

2015-02-28 2015-08-27

ATTN:

Miss Mei Ling Tang

Page:

1 of 2

Certificate of Calibration

Item for calibration:

Description

: Weather Monitor II

Manufacturer

: Davis Instruments

Model No.

: 7440

Serial No.

: MC01010A44

Test conditions:

Room Temperature

: 23 degree Celsius

Relative Humidity

: 58 %

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



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Website: www.wellab.com.hk

TEST REPORT

| Test Report No.: | C/150228A |
|------------------|------------|
| Date of Issue: | 2015-02-28 |
| Date Received: | 2015-02-28 |
| Date Tested: | 2015-02-28 |
| Date Completed: | 2015-02-28 |
| Next Due Date: | 2015-08-27 |

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 Direction (°) | | Difference D (°) |
|-------------------------|----------------------|------------------|
| Instrument Reading (W1) | Reference Value (W2) | D = W1 - W2 |
| 0 | 0 | 0 |
| 45.2 | 45 | 0.2 |
| 90.3 | 90 | 0.3 |
| 135 | 135 | 0 |
| 180.2 | 180 | 0.2 |
| 225.3 | 225 | 0.3 |
| 270.1 | 270 | 0.1 |
| 315.4 | 315 | 0.4 |
| 360 | 360 | 0 |



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TEST REPORT

APPLICANT:

Cinotech Consultants Limited Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: Date of Issue: C/150228/1 2015-03-02

Date Received:

2015-02-28

Date Tested:

2015 02 20

Date Completed:

2015-02-28

Next Due Date:

2015-03-02 2015-05-01

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3

Serial No.

: 251634

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 550 CPM

Equipment No.

: A-02-01

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 64%

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)

0.0032

PREPARED AND CHECKED BY:

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PATRICK TSE



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Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park, 18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/150228/2

Date of Issue: 2015-03-02

Date Received: 2015-02-28

Date Tested: 2015-02-28 Date Completed: 2015-03-02

Next Due Date: 2015-05-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

: 853944

Serial No. 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

: 22 degree Celsius

Relative Humidity

: 64%

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)

0.0031

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



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Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/150218/1

Date of Issue: 2015-02-23

Date Received: 2015-02-18

Date Tested: 2015-02-18 Date Completed: 2015-02-23

Next Due Date: 2015-04-22

ATTN:

Mr. WK Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

Serial No.

: 954253

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 772 CPM

Equipment No.

: A-02-05

Test Conditions:

Room Temperature

: 20 degree Celsius

Relative Humidity

: 64%

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)

0.0030

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



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TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/150417/1

Date of Issue: 2015-04-20

Date Received: 2015-04-17

Date Tested: 2015-04-17

Date Completed: 2015-04-20

Next Due Date:

2015-06-19

ATTN:

Mr. WK Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

Serial No.

: 954253

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 772 CPM

Equipment No.

: A-02-05

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

:66%

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)

0.0031

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



Rms 816, 1516 & 1701, 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

Test Report No.: C/150228/3

Date of Issue: 2015-03-02

Date Received: 20:

2015-02-28

Date Tested:

2015-02-28

Date Completed:

2015-03-02

Next Due Date:

2015-05-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

Serial No.

: 014750

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 790 CPM

Equipment No.

: A-02-06

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 64%

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)

0.0030

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Websiter www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/141231/1

Date of Issue: 2015-03-02

Date Received: 2015-02-27

Date Tested: 2015-02-27

Date Completed: 2015-03-02

Next Due Date:

2015-05-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

: 095039

Serial No. Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 764 CPM

Equipment No.

: A-02-08

Test Conditions:

Room Temperature

: 23 degree Celsius

Relative Humidity

:61%

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)

0.0032

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



Rms 816, 1516 & 1701, 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

Test Report No.: Date of Issue:

C/141231/2 2015-03-02

Date Received:

2015-02-27

Date Tested:

Date Completed:

2015-02-27

2015-03-02

Next Due Date:

2015-05-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

Serial No.

: 095050

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 577 CPM

Equipment No.

: A-02-09

Test Conditions:

Room Temperature

: 23 degree Celsius

Relative Humidity

:61%

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)

0.0032

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



WELLAB LIMITED Rms 816, 1516 & 1701, 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

Test Report No.: C/141231/3

Date of Issue: 2015-03-02

Date Received: 2015-02-27

Date Tested: 2015-02-27

Date Completed: 2015-03-02

Next Due Date:

2015-05-01

ATTN:

Mr. W. K. Tang

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

: 61%

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)

0.0031

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



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Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street.

Shatin, NT, Hong Kong

Test Report No.: C/N/140919/1 Date of Issue: 2014-09-21 Date Received: 2014-09-19 Date Tested: 2014-09-21 Date Completed:

Next Due Date:

2014-09-21 2015-09-20

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 12553

Microphone No.

: 35222

Equipment No.

: N-08-02

Test conditions:

Room Temperatre

: 23 degree Celsius

Relative Humidity

: 55%

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



WELLAB LIMITED Rms 816, 1516 & 1701, 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

Test Report No.: Date of Issue:

C/N/150103 2015-01-05

Date Received:

2015-01-03

Date Tested:

2015-01-03

Date Completed:

2015-01-05

Next Due Date:

2016-01-04

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 14303

Microphone No. Equipment No.

: 35222 : N-08-05

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 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



Rms 816, 1516 & 1701, 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

Test Report No.: C/N/140829/1

Date of Issue: 2014-09-01

Date Received: 2014-08-29

Date Tested: 2014-08-29

Date Completed: 2014-09-01

Next Due Date:

2015-08-31

ATTN:

Mr. W.K. Tang

Page:

1 of 1

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

Test conditions:

Room Temperatre

: 24 degree Celsius

Relative Humidity

: 60%

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



Rms 816, 1516 & 1701, 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

Test Report No.: C/N/140822/3
Date of Issue: 2014-08-25

Date Received: 2014-08-22 Date Tested: 2014-08-22

Date Completed: 2014-08-25

Next Due Date: 2015-08-24

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 21459

Microphone No. Equipment No.

: 43676 : N-08-08

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 55%

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



Rms 816, 1516 & 1701, 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

Test Report No.: C/N/140822/1
Date of Issue: 2014-08-25
Date Received: 2014-08-22
Date Tested: 2014-08-22
Date Completed: 2014-08-25
Next Due Date: 2015-08-24

ATTN:

Mr. W.K. Tang

Page:

1 of 1

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

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 55%

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



Rms 816, 1516 & 1701, 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

Test Report No.: C/N/141129/3
Date of Issue: 2014-12-01
Date Received: 2014-11-29
Date Tested: 2014-11-29

Date Completed:

2014-11-29

Next Due Date:

2014-12-01

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 23851 : 48532

Microphone No. Equipment No.

: N-08-12

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

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



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Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/141003/1
Date of Issue: 2014-10-04
Date Received: 2014-10-03
Date Tested: 2014-10-04
Date Completed: 2014-10-04
Next Due Date: 2015-10-03

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

: 22 degree 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



Rms 816, 1516 & 1701, 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

Test Report No.: C/N/141003/2
Date of Issue: 2014-10-04
Date Received: 2014-10-03
Date Tested: 2014-10-03
Date Completed: 2014-10-04
Next Due Date: 2015-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24791

Equipment No.

: N-09-04

Test conditions:

Room Temperatre

: 22 degree 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



WELLAB LIMITED Rms 816, 1516 & 1701, 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

Test Report No.: C/N/141003/3
Date of Issue: 2014-10-04
Date Received: 2014-10-03
Date Tested: 2014-10-03
Date Completed: 2014-10-04

ATTN:

Mr. W.K. Tang

Page:

Next Due Date:

1 of 1

2015-10-03

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A : 24780

Serial No. Equipment No.

: N-09-05

nderbinen

Test conditions:

Room Temperatre

: 22 degree 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 | $114.0 \pm 0.1 \mathrm{dB}$ |

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



Rms 816, 1516 & 1701, 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

Test Report No.: C/N/140822/2
Date of Issue: 2014-08-25
Date Received: 2014-08-22
Date Tested: 2014-08-22

Date Completed: Next Due Date:

2014-08-25 2015-08-24

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

: 20 degree Celsius

Relative Humidity

: 64%

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 | $114.0 \pm 0.1 dB$ |

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

APPENDIX C WEATHER INFORMATION

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information

| Date | Mean Air Temperature (°C) | Mean Relative Humidity (%) | Precipitation (mm) |
|---------------|------------------------------|-------------------------------|--------------------|
| 1 April 2015 | 22.7 – 27.2 | 75 – 95 | 0 |
| 2 April 2015 | 23.6 – 28.5 | 74 – 91 | 0 |
| 3 April 2015 | 25.0 – 26.9 | 78 – 89 | Trace |
| 4 April 2015 | 25.0 – 29.4 | 70 – 90 | 0 |
| 5 April 2015 | 24.0 – 30.6 | 58 – 93 | 0 |
| 6 April 2015 | 23.8 – 29.8 | 70 – 91 | Trace |
| 7 April 2015 | 22.0 – 27.1 | 72 – 89 | 0.1 |
| 8 April 2015 | 16.4 – 22.1 | 69 – 96 | 10.0 |
| 9 April 2015 | 15.9 – 19.4 | 84 – 96 | 1.3 |
| 10 April 2015 | 16.6 – 20.0 | 80 – 95 | 0.7 |
| 11 April 2015 | 16.4 – 17.9 | 90 – 99 | 52.0 |
| 12 April 2015 | 16.5 – 22.4 | 66 – 97 | 0.2 |
| 13 April 2015 | 18.6 – 27.2 | 38 – 77 | 0 |
| 14 April 2015 | 18.1 – 26.6 | 29 – 61 | 0 |
| 15 April 2015 | 18.4 – 27.5 | 36 – 75 | 0 |
| 16 April 2015 | 19.6 – 26.1 | 57 – 81 | 0 |
| 17 April 2015 | 20.7 – 27.4 | 57 – 87 | 0 |
| 18 April 2015 | 23.2 – 27.2 | 80 – 90 | Trace |
| 19 April 2015 | 25.8 – 27.5 | 80 – 87 | Trace |

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information

| Date | Mean Air Temperature (°C) | Mean Relative Humidity (%) | Precipitation (mm) |
|---------------|------------------------------|-------------------------------|-----------------------|
| 20 April 2015 | 23.0 – 28.6 | 78 – 91 | 0.2 |
| 21 April 2015 | 25.5 – 25.7 | 65 – 87 | Trace |
| 22 April 2015 | 21.7 – 26.7 | 65 – 88 | Trace |
| 23 April 2015 | 22.1 – 23.6 | 56 – 80 | Trace |
| 24 April 2015 | 21.6 – 29.0 | 56 – 83 | 0 |
| 25 April 2015 | 22.2 – 27.2 | 65 – 85 | 0 |
| 26 April 2015 | 22.2 – 27.9 | 61 – 84 | 0 |
| 27 April 2015 | 21.8 – 30.3 | 60 – 87 | 0 |
| 28 April 2015 | 23.1 – 28.9 | 64 – 90 | 0 |
| 29 April 2015 | 24.3 – 30.1 | 67 – 89 | 0 |
| 30 April 2015 | 24.9 – 31.9 | 60 – 91 | 0 |

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

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

II. Mean Wind Speed and Wind Direction

| Date | Time | Wind Speed m/s | Direction |
|------------|-------|----------------|-----------|
| 1-Apr-2015 | 00:00 | 1.2 | WNW |
| 1-Apr-2015 | 01:00 | 1.1 | W |
| 1-Apr-2015 | 02:00 | 1 | WNW |
| 1-Apr-2015 | 03:00 | 1.2 | W |
| 1-Apr-2015 | 04:00 | 1 | NE |
| 1-Apr-2015 | 05:00 | 1 | ENE |
| 1-Apr-2015 | 06:00 | 0.9 | ENE |
| 1-Apr-2015 | 07:00 | 1.2 | ENE |
| 1-Apr-2015 | 08:00 | 1.4 | N |
| 1-Apr-2015 | 09:00 | 1.6 | Е |
| 1-Apr-2015 | 10:00 | 1.8 | ENE |
| 1-Apr-2015 | 11:00 | 1.7 | NE |
| 1-Apr-2015 | 12:00 | 1.8 | NNE |
| 1-Apr-2015 | 13:00 | 2.3 | NNE |
| 1-Apr-2015 | 14:00 | 2.1 | ENE |
| 1-Apr-2015 | 15:00 | 2.2 | ENE |
| 1-Apr-2015 | 16:00 | 1.9 | ENE |
| 1-Apr-2015 | 17:00 | 1.8 | ENE |
| 1-Apr-2015 | 18:00 | 1.3 | ESE |
| 1-Apr-2015 | 19:00 | 1.3 | SE |
| 1-Apr-2015 | 20:00 | 1.2 | ESE |
| 1-Apr-2015 | 21:00 | 2 | ENE |
| 1-Apr-2015 | 22:00 | 2.1 | S |
| 1-Apr-2015 | 23:00 | 2 | S |
| 2-Apr-2015 | 00:00 | 1.6 | SE |
| 2-Apr-2015 | 01:00 | 1.7 | SSE |
| 2-Apr-2015 | 02:00 | 1.6 | ESE |
| 2-Apr-2015 | 03:00 | 1.5 | ESE |
| 2-Apr-2015 | 04:00 | 1.5 | ESE |
| 2-Apr-2015 | 05:00 | 1.5 | ESE |
| 2-Apr-2015 | 06:00 | 1.4 | SSE |
| 2-Apr-2015 | 07:00 | 1.6 | SSE |
| 2-Apr-2015 | 08:00 | 1.8 | S |
| 2-Apr-2015 | 09:00 | 1.9 | SE |
| 2-Apr-2015 | 10:00 | 2.3 | ESE |
| 2-Apr-2015 | 11:00 | 2.3 | SE |

| 2-Apr-2015 12:00 2.6 SE 2-Apr-2015 13:00 2.4 ESE 2-Apr-2015 14:00 2.4 E 2-Apr-2015 15:00 2.4 SE 2-Apr-2015 16:00 2.4 SE 2-Apr-2015 16:00 2.4 SE 2-Apr-2015 18:00 2 E 2-Apr-2015 19:00 1.8 E 2-Apr-2015 20:00 1.9 ENE 2-Apr-2015 20:00 1.9 ENE 2-Apr-2015 21:00 2 ESE 2-Apr-2015 22:00 1.8 ESE 2-Apr-2015 23:00 1.7 E 3-Apr-2015 00:00 1.6 ESE 3-Apr-2015 01:00 1.5 SE 3-Apr-2015 01:00 1.5 SE 3-Apr-2015 02:00 1.6 ESE 3-Apr-2015 03:00 1.6 SSE 3-Apr-2015 < | | <u> </u> | 1 | |
|--|------------|----------|-----|-----|
| 2-Apr-2015 | 2-Apr-2015 | 12:00 | 2.6 | SE |
| 2-Apr-2015 15:00 2.4 SE 2-Apr-2015 16:00 2.4 SE 2-Apr-2015 17:00 2.2 SSE 2-Apr-2015 18:00 2 E 2-Apr-2015 19:00 1.8 E 2-Apr-2015 20:00 1.9 ENE 2-Apr-2015 21:00 2 ESE 2-Apr-2015 22:00 1.8 ESE 2-Apr-2015 22:00 1.8 ESE 2-Apr-2015 22:00 1.8 ESE 2-Apr-2015 23:00 1.7 E 3-Apr-2015 00:00 1.6 ESE 3-Apr-2015 01:00 1.5 SE 3-Apr-2015 02:00 1.6 E 3-Apr-2015 03:00 1.6 SSE 3-Apr-2015 04:00 1.5 SSE 3-Apr-2015 05:00 1.4 ESE 3-Apr-2015 06:00 1.2 ESE 3-Apr-2015 | 2-Apr-2015 | 13:00 | 2.4 | ESE |
| 2-Apr-2015 | 2-Apr-2015 | 14:00 | 2.4 | E |
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| 10-Apr-2015 | 18:00 | 1.6 | N |
| 10-Apr-2015 | 17:00 | 1.7 | N |
| 10-Apr-2015 | 16:00 | 1.9 | SW |
| 10-Apr-2015 | 15:00 | 1.9 | NE |
| 10-Apr-2015 | 14:00 | 2 | ENE |
| 10-Apr-2015 | 13:00 | 2.3 | ENE |
| 10-Apr-2015 | 12:00 | 2.2 | ENE |
| 10-Apr-2015 | 11:00 | 1.8 | N |
| 10-Apr-2015 | 10:00 | 1.7 | WSW |
| 10-Apr-2015 | 09:00 | 1.6 | N |
| 10-Apr-2015 | 08:00 | 1.2 | N |
| 10-Apr-2015 | 07:00 | 0.9 | E |
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| 22-Apr-2015 | 17:00 | 2 | NW |
| 22-Apr-2015 | 18:00 | 1.9 | WNW |
| 22-Apr-2015 | 19:00 | 1.5 | W |
| 22-Apr-2015 | 20:00 | 1.5 | WSW |
| 22-Apr-2015 | 21:00 | 1.8 | SW |
| 22-Apr-2015 | 22:00 | 1.5 | WSW |
| 22-Apr-2015 | 23:00 | 1.7 | W |
| 23-Apr-2015 | 00:00 | 1.7 | WNW |
| 23-Apr-2015 | 01:00 | 1.9 | W |
| 23-Apr-2015 | 02:00 | 2.1 | W |
| 23-Apr-2015 | 03:00 | 2 | WNW |
| 23-Apr-2015 | 04:00 | 2.2 | W |
| 23-Apr-2015 | 05:00 | 2.2 | W |
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| 24-Apr-2015 | 18:00 | 1.9 | W |
| 24-Apr-2015 | 19:00 | 1.9 | WNW |
| 24-Apr-2015 | 20:00 | 1.5 | WNW |
| 24-Apr-2015 | 21:00 | 1.9 | NW |
| 24-Apr-2015 | 22:00 | 1.4 | W |
| 24-Apr-2015 | 23:00 | 1.6 | SSW |
| 25-Apr-2015 | 00:00 | 1.6 | SSE |
| 25-Apr-2015 | 01:00 | 1.5 | SSW |
| 25-Apr-2015 | 02:00 | 1.5 | SW |
| 25-Apr-2015 | 03:00 | 1.5 | SW |
| 25-Apr-2015 | 04:00 | 1.3 | SW |
| 25-Apr-2015 | 05:00 | 1.4 | SW |
| 25-Apr-2015 | 06:00 | 1.4 | W |
| 25-Apr-2015 | 07:00 | 1 | WNW |
| 25-Apr-2015 | 08:00 | 1.3 | W |
| 25-Apr-2015 | 09:00 | 1.7 | SW |
| 25-Apr-2015 | 10:00 | 2.3 | W |
| 25-Apr-2015 | 11:00 | 2.6 | ESE |
| 25-Apr-2015 | 12:00 | 2.6 | SW |
| 25-Apr-2015 | 13:00 | 2.5 | W |
| 25-Apr-2015 | 14:00 | 2.6 | WNW |
| | | | |

| | 1 | | |
|-------------|-------|-----|-----|
| 25-Apr-2015 | 15:00 | 2.4 | W |
| 25-Apr-2015 | 16:00 | 2 | SSW |
| 25-Apr-2015 | 17:00 | 1.6 | ESE |
| 25-Apr-2015 | 18:00 | 1.5 | WNW |
| 25-Apr-2015 | 19:00 | 1.2 | NE |
| 25-Apr-2015 | 20:00 | 1 | WNW |
| 25-Apr-2015 | 21:00 | 1.2 | WSW |
| 25-Apr-2015 | 22:00 | 1.1 | WSW |
| 25-Apr-2015 | 23:00 | 1.5 | SW |
| 26-Apr-2015 | 00:00 | 1.1 | WSW |
| 26-Apr-2015 | 01:00 | 1.1 | SE |
| 26-Apr-2015 | 02:00 | 0.9 | WSW |
| 26-Apr-2015 | 03:00 | 1 | WSW |
| 26-Apr-2015 | 04:00 | 0.9 | ENE |
| 26-Apr-2015 | 05:00 | 0.9 | ENE |
| 26-Apr-2015 | 06:00 | 0.8 | ENE |
| 26-Apr-2015 | 07:00 | 0.7 | ENE |
| 26-Apr-2015 | 08:00 | 1 | ENE |
| 26-Apr-2015 | 09:00 | 1.2 | SW |
| 26-Apr-2015 | 10:00 | 1.7 | WSW |
| 26-Apr-2015 | 11:00 | 1.9 | ENE |
| 26-Apr-2015 | 12:00 | 1.9 | SSW |
| 26-Apr-2015 | 13:00 | 2.1 | SW |
| 26-Apr-2015 | 14:00 | 1.9 | ENE |
| 26-Apr-2015 | 15:00 | 1.9 | ENE |
| 26-Apr-2015 | 16:00 | 1.8 | SSW |
| 26-Apr-2015 | 17:00 | 1.7 | WNW |
| 26-Apr-2015 | 18:00 | 1.4 | S |
| 26-Apr-2015 | 19:00 | 1.8 | ENE |
| 26-Apr-2015 | 20:00 | 1.4 | ENE |
| 26-Apr-2015 | 21:00 | 1.6 | ENE |
| 26-Apr-2015 | 22:00 | 1.3 | ENE |
| 26-Apr-2015 | 23:00 | 1.2 | SW |
| 27-Apr-2015 | 00:00 | 1 | WSW |
| 27-Apr-2015 | 01:00 | 1 | NNE |
| 27-Apr-2015 | 02:00 | 0.8 | SSW |
| 27-Apr-2015 | 03:00 | 0.9 | SSW |
| | | | |

| 27-Apr-2015 | 04:00 | 1.1 | SW |
|-------------|-------|-----|-----|
| 27-Apr-2015 | 05:00 | 1.2 | SW |
| 27-Apr-2015 | 06:00 | 1 | ESE |
| 27-Apr-2015 | 07:00 | 1 | SE |
| 27-Apr-2015 | 08:00 | 1.3 | SSE |
| 27-Apr-2015 | 09:00 | 1.6 | ESE |
| 27-Apr-2015 | 10:00 | 2 | П |
| 27-Apr-2015 | 11:00 | 1.9 | SW |
| 27-Apr-2015 | 12:00 | 2.2 | SW |
| 27-Apr-2015 | 13:00 | 2.3 | SW |
| 27-Apr-2015 | 14:00 | 2.1 | SSW |
| 27-Apr-2015 | 15:00 | 2 | SSW |
| 27-Apr-2015 | 16:00 | 2.1 | SSW |
| 27-Apr-2015 | 17:00 | 1.9 | SW |
| 27-Apr-2015 | 18:00 | 1.9 | SW |
| 27-Apr-2015 | 19:00 | 1.6 | SW |
| 27-Apr-2015 | 20:00 | 1.8 | SW |
| 27-Apr-2015 | 21:00 | 1.8 | W |
| 27-Apr-2015 | 22:00 | 1.8 | W |
| 27-Apr-2015 | 23:00 | 1.7 | WNW |
| 28-Apr-2015 | 00:00 | 1.6 | WSW |
| 28-Apr-2015 | 01:00 | 1.5 | SW |
| 28-Apr-2015 | 02:00 | 1.4 | SW |
| 28-Apr-2015 | 03:00 | 1.7 | WSW |
| 28-Apr-2015 | 04:00 | 1.6 | W |
| 28-Apr-2015 | 05:00 | 1.4 | WSW |
| 28-Apr-2015 | 06:00 | 1.3 | WSW |
| 28-Apr-2015 | 07:00 | 1.2 | SW |
| 28-Apr-2015 | 08:00 | 1.4 | WSW |
| 28-Apr-2015 | 09:00 | 1.5 | WSW |
| 28-Apr-2015 | 10:00 | 1.7 | SW |
| 28-Apr-2015 | 11:00 | 1.6 | SW |
| 28-Apr-2015 | 12:00 | 1.8 | ENE |
| 28-Apr-2015 | 13:00 | 1.9 | SSW |
| 28-Apr-2015 | 14:00 | 1.6 | SSW |
| 28-Apr-2015 | 15:00 | 1.7 | SW |
| 28-Apr-2015 | 16:00 | 1.9 | SW |
| | • | • | |

| 28-Apr-2015 | 17:00 | 2.1 | WSW |
|-------------|-------|-----|-----|
| 28-Apr-2015 | 18:00 | 2 | WNW |
| 28-Apr-2015 | 19:00 | 1.7 | WNW |
| 28-Apr-2015 | 20:00 | 1.6 | WNW |
| 28-Apr-2015 | 21:00 | 1.4 | WSW |
| 28-Apr-2015 | 22:00 | 1.5 | SW |
| 28-Apr-2015 | 23:00 | 1.5 | SW |
| 29-Apr-2015 | 00:00 | 1.2 | WSW |
| 29-Apr-2015 | 01:00 | 1.2 | SW |
| 29-Apr-2015 | 02:00 | 1.3 | SSW |
| 29-Apr-2015 | 03:00 | 1.6 | SW |
| 29-Apr-2015 | 04:00 | 1.6 | SW |
| 29-Apr-2015 | 05:00 | 1.8 | SW |
| 29-Apr-2015 | 06:00 | 1.8 | W |
| 29-Apr-2015 | 07:00 | 2 | N |
| 29-Apr-2015 | 08:00 | 2 | WSW |
| 29-Apr-2015 | 09:00 | 1.9 | W |
| 29-Apr-2015 | 10:00 | 1.9 | WSW |
| 29-Apr-2015 | 11:00 | 1.9 | WSW |
| 29-Apr-2015 | 12:00 | 1.9 | SW |
| 29-Apr-2015 | 13:00 | 1.7 | ENE |
| 29-Apr-2015 | 14:00 | 1.8 | E |
| 29-Apr-2015 | 15:00 | 1.8 | SSE |
| 29-Apr-2015 | 16:00 | 1.8 | NE |
| 29-Apr-2015 | 17:00 | 2 | ESE |
| 29-Apr-2015 | 18:00 | 1.8 | WSW |
| 29-Apr-2015 | 19:00 | 1.8 | W |
| 29-Apr-2015 | 20:00 | 1.7 | WSW |
| 29-Apr-2015 | 21:00 | 1.6 | S |
| 29-Apr-2015 | 22:00 | 1.6 | WNW |
| 29-Apr-2015 | 23:00 | 1.6 | WSW |
| 30-Apr-2015 | 00:00 | 1.5 | W |
| 30-Apr-2015 | 01:00 | 1.4 | SSW |
| 30-Apr-2015 | 02:00 | 1.8 | ENE |
| 30-Apr-2015 | 03:00 | 2 | SSE |
| 30-Apr-2015 | 04:00 | 2.3 | SSW |
| 30-Apr-2015 | 05:00 | 2 | SW |
| | | | |

| 30-Apr-2015 | 06:00 | 1.8 | NE |
|-------------|----------|-----|-----|
| 30-Apr-2015 | 07:00 | 1.5 | W |
| 30-Apr-2015 | 08:00 | 2.1 | SW |
| 30-Apr-2015 | 09:00 | 1.7 | SSW |
| 30-Apr-2015 | 10:00 | 2.1 | SW |
| 30-Apr-2015 | 11:00 | 2.2 | S |
| 30-Apr-2015 | 12:00 | 2 | WNW |
| 30-Apr-2015 | 13:00 | 1.4 | S |
| 30-Apr-2015 | 14:00 | 1.8 | ENE |
| 30-Apr-2015 | 15:00 | 2 | N |
| 30-Apr-2015 | 16:00 | 1.6 | WSW |
| 30-Apr-2015 | 17:00 | 1.6 | N |
| 30-Apr-2015 | 18:00 | 1.3 | NW |
| 30-Apr-2015 | 19:00 | 1.3 | N |
| 30-Apr-2015 | 20:00 | 1.5 | WNW |
| 30-Apr-2015 | 21:00 | 1.6 | SW |
| 30-Apr-2015 | 22:00 | 1.5 | SW |
| 30-Apr-2015 | 23:00 | 1.4 | SSE |
| ' | <u> </u> | | 1 |

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KLN/2010/03

Kai Tak Development - Stage 2 Infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities Impact Air and Noise Monitoring Schedule for April 2015

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------------|---------------|--------------|-------------|-------------------|----------|
| | , | | 1-Apr | 2-Apr | 3-Apr | 4-Apr |
| | | | | 1 hr TSP X3 | | |
| | | | Noise | | | |
| | | | (M1, M2) | | | |
| | | | | X . | | |
| | | | 24 hr TSP | Noise | | |
| | | | 24 Nr 15P | (M9) | | |
| 5-Apr | 6-Apr | 7-Apr | 8-Apr | 9-Apr | 10-Apr | 11-Apr |
| | | | 1 hr TSP X3 | - | | - |
| | | | | | | |
| | | | | | NT : | |
| | | | Noise | | Noise (M1, M2) | |
| | | 24 hr TSP | | | (W11, W12) | |
| | | 24 III 131 | (M3, M4, M9) | | | |
| 12-Apr | 13-Apr | 14-Apr | 15-Apr | 16-Apr | 17-Apr | 18-Apr |
| | | 11 map va | | | | |
| | | 1 hr TSP X3 | | | | |
| | Noise | | Noise | | | |
| | (M9) | Noise | (M1, M2) | | | |
| | 24 hr TSP | (M3, M4) | () | | 24 hr TSP | |
| | | | | | | |
| 19-Apr | 20-Apr | 21-Apr | 22-Apr | 23-Apr | 24-Apr | 25-Apr |
| | 1 hr TSP X3 | | | | 1 hr TSP X3 | |
| | 1 III 13P A3 | | | | 1 Hr 15P A3 | |
| | | | Noise | Noise | | |
| | Noise | | (M1, M2) | (M9) | | |
| | (M3, M4) | | , , | 24 hr TSP | | |
| | | | | | | |
| 26-Apr | 27-Apr | 28-Apr | 29-Apr | 30-Apr | | |
| | | | | 1 b. Ten V2 | | |
| | | | | 1 hr TSP X3 | | |
| | | Noise | Noise | | | |
| | | (M1, M2) | (M9) | Noise | | |
| | | , , , , , , , | 24 hr TSP | (M3, M4) | | |
| | | | | <u> </u> | | |

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

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

M1 - Buddhist Chi King Primary School

M2 - S.K.H. Kowloon Bay Kei Lok Primary School

M3 - Cognitio College

M4 - Lee Kau Yan Memorial School

M9 - Tak Long Estate

Contract No. KLN/2010/03

Kai Tak Development - Stage 2 Infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities Tentative Impact Air and Noise Monitoring Schedule for May 2015

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------------------------|----------------------------|-------------------|-------------------|--------------------------------|----------|
| | | 2 22 22 23 | | | 1-May | 2-May |
| | | | | | · | , |
| 3-May | 4-May | 5-May | 6-May | 7-May | 8-May | 9-May |
| | | | 1 hr TSP X3 | | , | , |
| | | Noise (M9) 24 hr TSP | Noise (M3, M4) | Noise (M1, M2) | | |
| 10-May | 11-May | 12-May | 13-May | 14-May | 15-May | 16-May |
| | | 1 hr TSP X3 | | | | |
| | Noise (M9) 24 hr TSP | Noise (M3, M4) | | | Noise (M1, M2) 24 hr TSP | |
| 17-May | 18-May | 19-May | 20-May | 21-May | 24 III 131 22-May | 23-May |
| | 1 hr TSP X3 Noise | Noise (M1, M2) | Noise (M9) | | 1 hr TSP X3 | |
| | (M3, M4) | | | 24 hr TSP | | |
| 24-May | 25-May | 26-May | 27-May | 28-May | 29-May | 30-May |
| | | | | 1 hr TSP X3 | | |
| | | Noise (M9) | 24 hr TSP | Noise (M3, M4) | Noise (M1, M2) | |
| 31-May | | | | | | |
| | | | | | | |

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

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

M1 - Buddhist Chi King Primary School

M2 - S.K.H. Kowloon Bay Kei Lok Primary School

M3 - Cognitio College

M4 - Lee Kau Yan Memorial School

M9 - Tak Long Estate

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

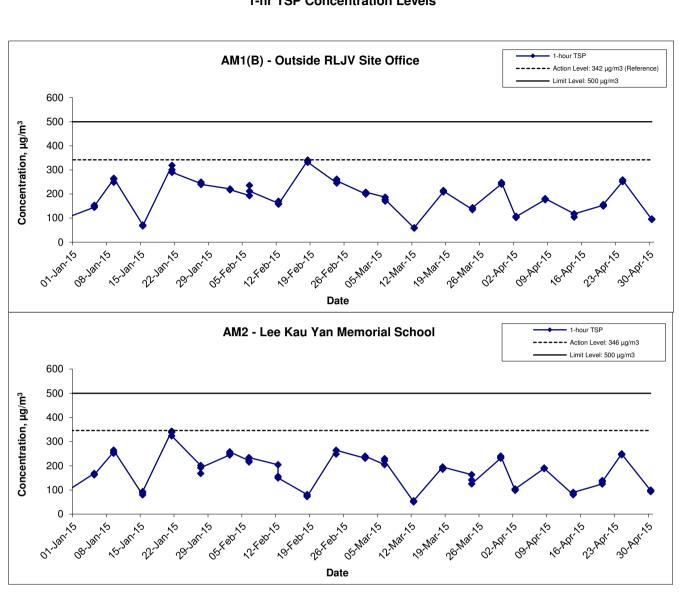
Appendix E - 1-hour TSP Monitoring Results

| Location AM1(E | 3) - Outside F | RLJV Site Office | |
|----------------|----------------|------------------|------------------------------------|
| Date | Time | Weather | Particulate Concentration (μg/m3) |
| 2-Apr-15 | 13:20 | Cloudy | 102.6 |
| 2-Apr-15 | 14:20 | Cloudy | 107.6 |
| 2-Apr-15 | 15:20 | Cloudy | 106.0 |
| 8-Apr-15 | 13:05 | Cloudy | 176.8 |
| 8-Apr-15 | 14:05 | Cloudy | 177.6 |
| 8-Apr-15 | 15:05 | Cloudy | 181.5 |
| 14-Apr-15 | 14:00 | Sunny | 117.9 |
| 14-Apr-15 | 15:00 | Sunny | 104.7 |
| 14-Apr-15 | 16:00 | Sunny | 117.2 |
| 20-Apr-15 | 13:00 | Cloudy | 153.4 |
| 20-Apr-15 | 14:00 | Cloudy | 150.5 |
| 20-Apr-15 | 15:00 | Cloudy | 156.6 |
| 24-Apr-15 | 13:20 | Cloudy | 251.3 |
| 24-Apr-15 | 14:20 | Cloudy | 258.9 |
| 24-Apr-15 | 15:20 | Cloudy | 258.2 |
| 30-Apr-15 | 8:55 | Sunny | 95.1 |
| 30-Apr-15 | 9:55 | Sunny | 95.6 |
| 30-Apr-15 | 10:55 | Sunny | 97.1 |
| | | Average | 150.5 |
| | | Maximum | 258.9 |
| | | Minimum | 95.1 |

| Location AM2 - | Location AM2 - Lee Kau Yan Memorial School | | | | | | | |
|----------------|--|---------|------------------------------------|--|--|--|--|--|
| Date | Time | Weather | Particulate Concentration (μg/m3) | | | | | |
| 2-Apr-15 | 13:00 | Cloudy | 98.7 | | | | | |
| 2-Apr-15 | 14:00 | Cloudy | 102.6 | | | | | |
| 2-Apr-15 | 15:00 | Cloudy | 103.9 | | | | | |
| 8-Apr-15 | 13:00 | Cloudy | 189.2 | | | | | |
| 8-Apr-15 | 14:00 | Cloudy | 191.1 | | | | | |
| 8-Apr-15 | 15:00 | Cloudy | 189.1 | | | | | |
| 14-Apr-15 | 13:00 | Sunny | 80.6 | | | | | |
| 14-Apr-15 | 14:00 | Sunny | 85.8 | | | | | |
| 14-Apr-15 | 15:00 | Sunny | 90.3 | | | | | |
| 20-Apr-15 | 8:55 | Cloudy | 124.9 | | | | | |
| 20-Apr-15 | 9:55 | Cloudy | 138.8 | | | | | |
| 20-Apr-15 | 10:55 | Cloudy | 134.0 | | | | | |
| 24-Apr-15 | 13:02 | Cloudy | 249.7 | | | | | |
| 24-Apr-15 | 14:02 | Cloudy | 245.4 | | | | | |
| 24-Apr-15 | 15:02 | Cloudy | 248.8 | | | | | |
| 30-Apr-15 | 13:00 | Sunny | 97.8 | | | | | |
| 30-Apr-15 | 14:00 | Sunny | 93.1 | | | | | |
| 30-Apr-15 | 15:00 | Sunny | 99.9 | | | | | |
| | | Average | 142.4 | | | | | |
| | | Maximum | 249.7 | | | | | |
| | | Minimum | 80.6 | | | | | |

MA11038/App E - 1hr TSP Cinotech

1-hr TSP Concentration Levels



Title Contract No. KL/2010/03
Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Graphical Presentation of 1-hour TSP Monitoring Results

Scale
N.T.S
No. MA11038
Date
Appendix
E

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)

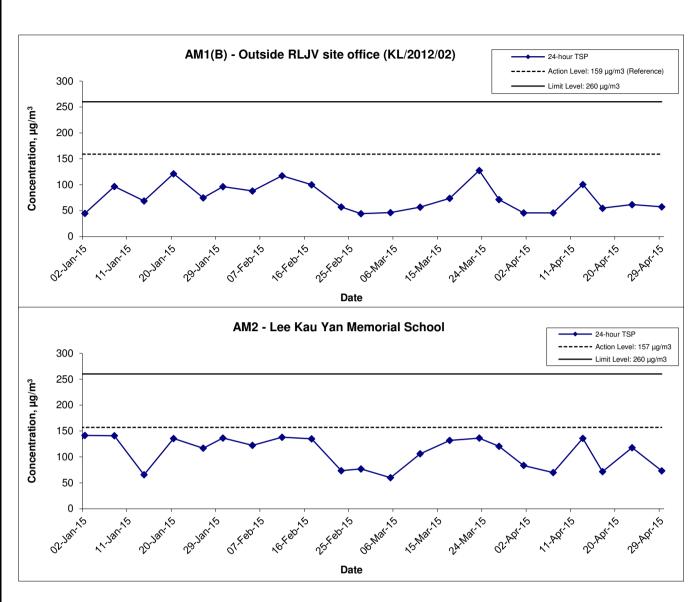
| Start Date | Weather | Air | Atmospheric | Filter W | eight (g) | Particulate | Elaps | e Time | Sampling | Flow Rate | e (m³/min.) | Av. flow | Total vol. | Conc. |
|------------|-----------|-----------|---------------------|----------|-----------|-------------|---------|--------|------------|-----------|-------------|-----------------------|-------------------|---------------|
| Start Date | Condition | Temp. (K) | Pressure, Pa (mmHg) | Initial | Final | weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m ³ /min) | (m ³) | $(\mu g/m^3)$ |
| 01-Apr-15 | Cloudy | 295.5 | 763.7 | 3.2286 | 3.3076 | 0.0790 | 4548.5 | 4572.5 | 24.0 | 1.20 | 1.20 | 1.20 | 1727.0 | 45.7 |
| 07-Apr-15 | Cloudy | 299.5 | 762.7 | 3.2609 | 3.3389 | 0.0780 | 4572.6 | 4596.6 | 24.0 | 1.19 | 1.19 | 1.19 | 1715.2 | 45.5 |
| 13-Apr-15 | Cloudy | 296.4 | 768.1 | 3.2572 | 3.4311 | 0.1739 | 4596.6 | 4620.6 | 24.0 | 1.20 | 1.20 | 1.20 | 1729.1 | 100.6 |
| 17-Apr-15 | Cloudy | 296.1 | 763.3 | 3.2797 | 3.3751 | 0.0954 | 4620.6 | 4644.6 | 24.0 | 1.21 | 1.21 | 1.21 | 1742.8 | 54.7 |
| 23-Apr-15 | Cloudy | 295.1 | 767.7 | 3.2713 | 3.3791 | 0.1078 | 4644.6 | 4668.6 | 24.0 | 1.22 | 1.22 | 1.22 | 1750.2 | 61.6 |
| 29-Apr-15 | Sunny | 300.3 | 761.9 | 3.2421 | 3.3415 | 0.0994 | 4668.6 | 4692.6 | 24.0 | 1.20 | 1.20 | 1.20 | 1730.3 | 57.4 |
| | | | | | | | | | | | | | Min | 45.5 |
| | | | | | | | | | | | | | Max | 100.6 |
| | | | | | | | | | | | | | Average | 60.9 |

Location AM2 - Lee Kau Yan Memorial School

| Start Date | Weather | Air | Atmospheric | Filter W | eight (g) | Particulate | Elaps | e Time | Sampling | Flow Rate | (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) | $(\mu g/m^3)$ |
| 01-Apr-15 | Cloudy | 295.5 | 763.6 | 3.2087 | 3.3533 | 0.1446 | 14592.4 | 14616.4 | 24.0 | 1.20 | 1.20 | 1.20 | 1733.0 | 83.4 |
| 07-Apr-15 | Cloudy | 299.4 | 762.4 | 3.2558 | 3.3757 | 0.1199 | 14616.4 | 14640.4 | 24.0 | 1.20 | 1.20 | 1.20 | 1721.2 | 69.7 |
| 13-Apr-15 | Sunny | 296.7 | 768.3 | 3.2705 | 3.5061 | 0.2356 | 14640.4 | 14664.4 | 24.0 | 1.20 | 1.20 | 1.20 | 1734.5 | 135.8 |
| 17-Apr-15 | Cloudy | 296.9 | 764.1 | 3.2342 | 3.3596 | 0.1254 | 14664.4 | 14688.4 | 24.0 | 1.22 | 1.22 | 1.22 | 1752.9 | 71.5 |
| 23-Apr-15 | Cloudy | 295.3 | 767.3 | 3.2341 | 3.4416 | 0.2075 | 14688.4 | 14712.4 | 24.0 | 1.22 | 1.22 | 1.22 | 1760.5 | 117.9 |
| 29-Apr-15 | Sunny | 300.5 | 762.3 | 3.2453 | 3.3727 | 0.1274 | 14762.7 | 14786.7 | 24.0 | 1.21 | 1.21 | 1.21 | 1741.4 | 73.2 |
| | | | | | | | | | | | | | Min | 69.7 |
| | | | | | | | | | | | | | Max | 135.8 |
| | | | | | | | | | | | | | Average | 91.9 |

MA11038/App F - 24hr TSP Cinotech

24-hr TSP Concentration Levels



Title

Contract No. KL/2010/03

Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Graphical Presentation of 24-hour TSP Monitoring Results

Scale

N.T.S

Project

No. MA11038

Date

Appendix

F

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

| Location M1 - | · Buddhist C | hi King Prima | ary School | | | | | | | |
|---------------|--------------|---------------|-----------------|-----------------------|-------|-----------------|--------------------------|--|--|--|
| | | | | Unit: dB (A) (30-min) | | | | | | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level | | | |
| | | | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | | |
| 1-Apr-15 | 14:30 | Sunny | 70.8 | 72.9 | 66.3 | | 69.7 | | | |
| 10-Apr-15 | 13:50 | Cloudy | 64.9 | 67.2 | 59.8 | | 55.3 | | | |
| 15-Apr-15 | 15:00 | Sunny | 67.4 | 70.1 | 62.6 | 64.4 | 64.4 | | | |
| 22-Apr-15 | 10:30 | Cloudy | 67.4 | 69.6 | 65.0 | | 64.4 | | | |
| 28-Apr-15 | 10:30 | Sunny | 63.2 | 65.1 | 60.9 | | 63.2 Measured ≦ Baseline | | | |

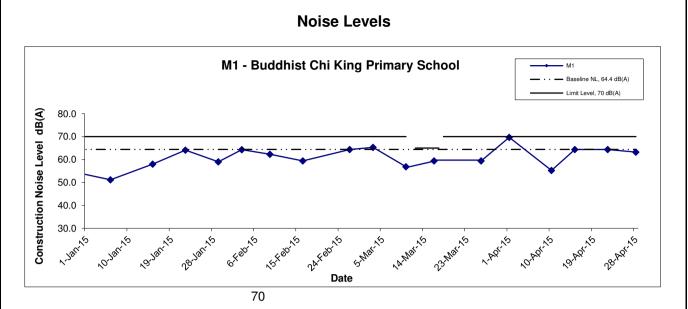
| Location M2 - S.K.H. Kowloon Bay Kei Lok Primary School | | | | | | | | | | | |
|---|-------|---------|-----------------|-----------------------|-------|-----------------|--------------------------|--|--|--|--|
| | | | | Unit: dB (A) (30-min) | | | | | | | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level | | | | |
| | | | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | | | |
| 1-Apr-15 | 13:45 | Sunny | 70.0 | 73.9 | 69.3 | | 69.4 | | | | |
| 10-Apr-15 | 13:00 | Cloudy | 68.6 | 79.8 | 65.4 | | 67.7 | | | | |
| 15-Apr-15 | 16:05 | Sunny | 67.1 | 68.8 | 63.8 | 61.3 | 65.8 | | | | |
| 22-Apr-15 | 11:30 | Cloudy | 67.8 | 69.9 | 65.2 | | 66.7 | | | | |
| 28-Apr-15 | 11:15 | Sunny | 63.9 | 65.0 | 61.1 | | 60.4 | | | | |

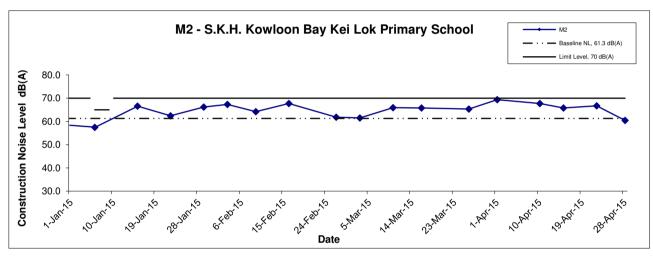
| Location M3 - Cognitio College | | | | | | | | | |
|--------------------------------|-------|---------|-----------------|-----------------|-------|--------------------|----------------------------|--|--|
| | | | | | Uni | t: dB (A) (30-min) | | | |
| Date | Time | Weather | Meas | sured Noise | _evel | Background Noise | Construction Noise Level | | |
| | | | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | |
| 8-Apr-15 | 15:20 | Cloudy | 78.0 | 79.4 | 76.9 | 77.4 | 69.1 | | |
| 14-Apr-15 | 15:05 | Sunny | 78.6 | 79.8 | 75.1 | 79.0 | 78.6 Measured ≤ Background | | |
| 20-Apr-15 | 15:05 | Cloudy | 79.7 | 81.0 | 78.0 | 79.6 | 63.3 | | |
| 30-Apr-15 | 15:14 | Sunny | 77.9 | 80.5 | 76.1 | 78.8 | 77.9 Measured ≤ Background | | |

| Location M4 - Lee Kau Yan Memorial School | | | | | | | | | |
|---|-------|---------|----------------------|-----------------|------|--------------------|--------------------------|--|--|
| | | | | | Uni | t: dB (A) (30-min) | | | |
| Date | Time | Weather | Measured Noise Level | | | Baseline Level | Construction Noise Level | | |
| | | | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | |
| 8-Apr-15 | 13:10 | Cloudy | 74.4 | 77.1 | 72.5 | | 74.4 Measured ≤ Baseline | | |
| 14-Apr-15 | 13:00 | Sunny | 73.8 | 74.4 | 71.6 | 76.7 | 73.8 Measured ≤ Baseline | | |
| 20-Apr-15 | 8:50 | Cloudy | 73.9 | 75.6 | 71.6 | 70.7 | 73.9 Measured ≤ Baseline | | |
| 30-Apr-15 | 13:10 | Sunny | 73.3 | 75.1 | 70.2 | | 73.3 Measured ≤ Baseline | | |

| Location M9 - | Location M9 - Tak Long Estate | | | | | | | | | |
|---------------|-------------------------------|---------|-----------------|-----------------|-------|--------------------|--------------------------|--|--|--|
| | | | | | Uni | t: dB (A) (30-min) | | | | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level | | | |
| | | | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | | |
| 2-Apr-15 | 9:15 | Cloudy | 65.4 | 67.7 | 61.2 | | 64.0 | | | |
| 8-Apr-15 | 10:10 | Cloudy | 67.4 | 68.0 | 62.6 | | 66.5 | | | |
| 13-Apr-15 | 9:00 | Sunny | 70.9 | 74.9 | 63.0 | 59.9 | 70.5 | | | |
| 23-Apr-15 | 9:15 | Cloudy | 67.9 | 69.9 | 63.7 | | 67.2 | | | |
| 29-Apr-15 | 9:10 | Sunny | 72.9 | 76.3 | 65.1 | | 72.7 | | | |

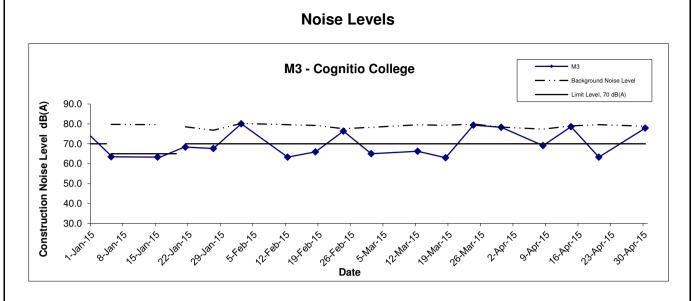
MA11038/App G - Noise Cinotech

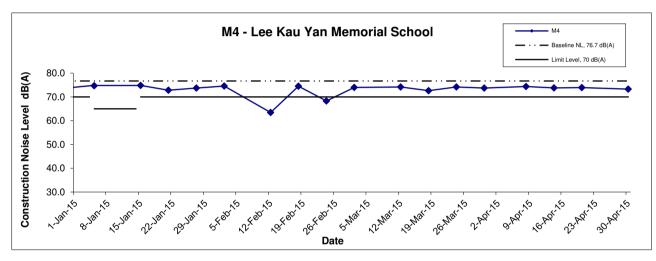




Remarks: M1 and M2: The construction noise levels in the Tables in Appendix G were adopted for plotting the graphs
The Limit level for M1 and M2 are 65dB(A) during the examination period

| Title | | Scale | | Project | |
|-------|--|-------|--------|------------|----------|
| | Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities | | N.T.S | No. MA1103 | CINOTECH |
| | Graphical Presentation of Construction Noise Monitoring | Date | | Appendix | |
| | Results | | Apr 15 | G | |







Remarks: The construction noise levels in the Tables in Appendix G were adopted for plotting the graphs

The Limit level for M3 and M4 are 65dB(A) during the examination period

Title Contract No. KL/2010/03

Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Graphical Presentation of Construction Noise Monitoring Results

Scale N.T.S

N.T.S

Project No. MA11038

Appendix

Apr 15

APPENDIX H SUMMARY OF EXCEEDANCE

Contract No. KL/2010/03

Kai Tak Development – Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. KL/2010/03

- (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

Contract No. KL/2010/03

Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 150401 |
|----------------------------|---------------|
| Date | 01 April 2015 |
| | 09:30-11:15 |

| D. C.N. | | 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 | |
| 150401-O02 | Stockpile of dusty materials should be covered. (next to PS1A) | C 7 |
| I | D. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Waste / Chemical Management | |
| 150401-O01 | Oil containers should be provided with drip trays. (next to PS1A) | E 9 |
| 150401-O03 | General refuse should be cleared in u-channel. (PS1A) | E 7 |
| | 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 site audit session (Ref. No. 150325), item 150325-O01 was remarked as 150401-O01 and item 150325-O02 was remarked as 150401-O02. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|---------------|
| Recorded by | Carrie Leung | Core | 02 April 2015 |
| Checked by | Dr. Priscilla Choy | WI | 02 April 2015 |

1

Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

| Checklist Reference Number | 150409 |
|----------------------------|---------------|
| | 09 April 2015 |
| Time | 10:30-12:00 |

| 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 | |
| 150409-O01 | Stockpile of dusty materials should be covered. (next to PS1A) | C 7 |
| | D. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| • • | E. Waste / Chemical Management | |
| 150409-O02 | General refuse should be cleared in u-channel. (PS1A) | E 7 |
| | 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 site audit session (Ref. No. 150401), item 150401-O02 was remarked as 150409-O01 and item 150401-O03 was remarked as 150409-O02. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|---------------|
| Recorded by | Carrie Leung | Care | 13 April 2015 |
| Checked by | Dr. Priscilla Choy | WI | 13 April 2015 |

Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

| Checklist Reference Number | 150417 |
|----------------------------|---------------|
| Date | 17 April 2015 |
| Time | 10:00-12:30 |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|---|---|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | B. Water Quality | |
| 150417-O01 | Sand bags should be placed to avoid water washed outside the site boundary. (Road L5) | B 16 |
| | 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 site audit session (Ref. No. 150409), no environmental deficiencies were identified during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|---------------|
| Recorded by | Carrie Leung | (9.0 | 20 April 2015 |
| Checked by | Dr. Priscilla Choy | WF | 20 April 2015 |

Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

| Checklist Reference Number | 150422 |
|----------------------------|---------------|
| Date | 22 April 2015 |
| Time | 09:30-11:30 |

| | | 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 | |
| 150422-O01 | Stockpile of dusty materials should be covered. (Near KTOB) | C 7 |
| | | |
| | 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 site audit session (Ref. No. 150417), no environmental deficiencies were identified during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|---------------|
| Recorded by | Carrie Leung | Care | 23 April 2015 |
| Checked by | Dr. Priscilla Choy | WIL | 23 April 2015 |
| | | | |

Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

| Checklist Reference Number | 150429 |
|----------------------------|---------------|
| Date | 29 April 2015 |
| Time | 09:30-11:30 |

| 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 | |
| 150429-O01 | Stockpile of dusty materials should be covered or sprayed with water. (Near KTOB) | C 7 |
| | 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 site audit session (Ref. No. 150422), item 150422-O01 was remarked as 150429-O01. | |

| "-"-"- | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Carrie Leung | Care | 04 May 2015 |
| Checked by | Dr. Priscilla Choy | WI | 04 May 2015 |

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

| ER | 2. Check Contractor's | implemented | undertake any necessary |
|----------------------|------------------------|-------------|-------------------------|
| 2. Increase | working method | | replacement |
| monitoring | 3. Discuss with ET and | | |
| frequency | Contractor on possible | | |
| 3. Discuss remedial | remedial measures | | |
| actions with IEC, | 4. Advise ER on | | |
| ER and Contractor | effectiveness of | | |
| 4. Monitor remedial | proposed remedial | | |
| actions until | measures | | |
| rectification has | 5. Supervise | | |
| been completed | implementation of | | |
| 5. If non-conformity | remedial measures. | | |
| stops, cease | | | |
| additional | | | |
| monitoring | | | |

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

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

| Types of Impacts | Mitigation Measures | Status |
|-------------------|---|--------|
| | 8 times daily watering of the work site with active dust emitting activities. | ٨ |
| | 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 before being loaded into the vehicle. Any vehicle with an open load carrying area should | ٨ |
| | have properly fitted side and tail boards. | ٨ |
| Construction Dust | Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin. | ٨ |
| | The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation. | ^ |
| | The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On- site unpaved roads should be compacted and kept free | ^ |
| | of lose materials. Vehicle washing facilities should be provided at every | ^ |
| | | |

| 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. | ۸ |
| 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. | ٨ |
| Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. | ۸ |
| • DWFI compound for JVBC: 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 |
| | |

| efficiency deodorizers before discharge to the atmosphere. Desilting compound for KTN: Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) 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 KTN and hence fully mitigate the potential odour emissions from the headspace of KTN 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 efficiency deodorizers before | N/A |
|---|-----|
| Decking or reconstruction of KTN within apron area: it is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with non-odorous fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with 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 | ^ |
|---|------------|
| 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. In-situ sediment treatment by bioremediation: Bioremediation would be applied to the entire KTAC and KTTS. | N/A 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 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 | ٨ |
| | (i) Provision of low noise surfacing in a section of Road L2; and | N/A |
| | (ii) Provision of structural fins | N/A |

| The state of the s | (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 pefore occupation of Site 1I1; 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 |
| | 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 |
| | (i) avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or (ii) provision of 17.5m high noise tolerant building | N/A |
| | 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. i) avoid any sensitive facades with openable window | N/A |
| | 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 |

| provided with sile (i) SPS (ii) ESS | entilation Shaft | N/A N/A N/A N/A |
|---|--------------------------------------|--------------------------|
| Installation of measures | retractable roof or other equivalent | N/A |

| | 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 | N/A N/A N/A |
|-------------------------------|---|-------------|
| Construction Water Quality | unmanned facilities. Construction Phase Marine-based Construction Capital and Maintenance Dredging for Cruise Terminal | |
| | Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging. | ۸ |
| | | |

| Fireboat Berth, Runway Opening and Road T2 | |
|---|---------|
| Fireboat Bertif, huriway Opening and hoad 12 | |
| 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 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. | ۸ |
| 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 2,000m³ per day using one grab dredger. | ^ |
| 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. | ۸ |
| | |
| | |

| 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 | |
| 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. | ^ |
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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 Λ have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. 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 Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped. Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 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. | ^ |
| 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. | ٨ |

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 Λ 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. | ۸ |
| | 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. | ۸ |
| | 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. | ۸ |
| | Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable. | ۸ |
| | | |

| 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. | ۸ |
|--|---|
| 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. | ۸ |
| Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea. | ۸ |
| Supervisory staff should be assigned to station on site to closely supervise and monitor the works | ٨ |
| Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation. | ۸ |
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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 | ^ |
| 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 | ٨ |
| A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) | ^ |
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| 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 | |
| 1940 C 1 M | |
| reduction include: | |
| Sort C&D waste from demolition of the remaining | ^ |
| structures to recover recyclable portions such as | |
| metals | |
| 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 | |
| | |
| Any unused chemicals or those with remaining | ^ |
| functional capacity should be recycled | |
| Proper storage and site practices to minimise the | ^ |
| potential for damage or contamination of | |
| construction materials | |
| 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) | |
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| disposal site | disposal site | The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would require either Type 1 - Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 - Special Treatment / Disposal and must be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated | ^ |
|---------------|---------------|---|---|
| | | the environment and disposed properly at the designated disposal site | |

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 · 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 Λ level that would cause the overflow of materials or sediment laden water during loading or transportation

| Construction and Demolitics Material | |
|---|---|
| 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 | |
| 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 leading upleading or transfer. | |
| prior to any loading, unloading or transfer | ^ |
| operation so as to maintain the dusty materials wet | |
| The height from which excavated materials are drapped about he controlled to a minimum. | ^ |
| dropped should be controlled to a minimum | |
| practical height to limit fugitive dust generation from unloading | |
| from unloading | |
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When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.

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

Λ

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

| CM1 All existing trees should be carefully protected during construction. | ۸ |
|---|--|
| 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. | ٨ |
| CM3 Control of night-time lighting. | N/A(1) |
| CM4 Erection of decorative screen hoarding. | ^ |
| | |
| | |
| | |
| | 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. CM3 Control of night-time lighting. |

| 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

Kai Tak Development – Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities

Reporting Month: April 2015

Contract No. KL/2010/03

| 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 WASTE GENERATED QUANTITY

Department: CEDD
Contract No.: KL/2010/03

Project: KAI TAK DEVELOPMENT – STAGE 2 Infrastructure Works at North Apron Area of Kai

Tak Airport for Residential Development and Government Facilities



Monthly Summary Waste Flow Table for 2015

As at 9 May 2015

| | Total | Actual Quantities Inert C & D Materials Generated Monthly | | | | | | Actual Quantities of C & D Wastes Generated Monthly | | | | |
|-------------|-----------------------|---|------------------------|-----------------|----------------------------|------------------|---------|---|---------|--------------|-----------|----------------------|
| Month | Quantity Generated | Broken Concrete | Reused in the Contract | Reused in other | Disposed as Public Fill | Imported Fill | Metals | Paper/ Cardboard | * | Chemica | l Waste | Others, e.g. general |
| | | | | Projects | | | | packaging | | | | refuse |
| | (in m³) | (in m³) | (in m³) | (in m³) | (in m³) | (in m³) | (in kg) | (in kg) | (in kg) | Battery(No.) | Oil(in L) | (in m³) |
| Accumulated | | | | | | | | | | | | |
| (Jul 11-Dec | 6124.71 | 8538 | 3500 | 0 | 871.59 | 0 | 0 | 0 | 0 | 0 | 0 | 215.12 |
| 14) | | | | | | | | | | | | |
| Jan'2015 | 537.88 | 530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.88 |
| Feb'2015 | 6.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.08 |
| Mar'2015 | 287.38 | 300 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.38 |
| Apr'2015 | 1094.61 | 1150 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.61 |
| May'2015 | | | | | | | | | | | | |
| Jun'2015 | | | | | | | | | | | | |
| Sub-total | | | | | | | | | | | | |
| (Jan 15-Jun | 1925.95 | 1980 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25.95 |
| 15) | | | | | | | | | | | | |
| Jul'2015 | | | | | | | | | | | | |
| Aug'2015 | | | | | | | | | | | | |
| Sep'2015 | | | | | | | | | | | | |
| Oct'2015 | | | | | | | | | | | | |
| Nov'2015 | | | | | | | | | | | | |
| Dec'2015 | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Forecast of Total Quantities of C&D Materials to be Generated from the Contract* | | | | | | | | | | | |
|--|--|------------------------|--------------------------|----------------------------|------------------|---------|----------------------------------|---------|--------------|-----------|-----------------------------------|
| Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ Cardboard packaging | ` | Chemica | l Waste | Others, e.g. general refuse |
| (in m³) | (in m³) | (in m³) | (in m³) | (in m³) | (in m³) | (in kg) | (in kg) | (in kg) | Battery(No.) | Oil(in L) | (in m³) |
| 4650 | 7000 | 3300 | 0 | 700 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |

Notes:

- 1 The performance targets are given in PS clause 25.20A(4)
- 2 The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
- 3 Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
- 4 The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20A(4)