

## EXECUTIVE SUMMARY

### Introduction

1. This is the 22<sup>nd</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Contract No. KLN/2013/16 - Environmental Monitoring Works for Kai Tak Development” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in December 2015.
  
2. During the reporting month, the following works contracts were undertaken within Kai Tak Site:
  - 1020EM12A - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package A)-Chilled Water Pipe Laying Works
  - 2477EM14A - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package B)-Water Pipe Laying Works
  - 2487EM14W - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package B)-Electrical and Mechanical Installation
  - 1107 - MTR Shatin to Central Link: Diamond Hill to Kai Tak Tunnels
  - 1108 - MTR Shatin to Central Link: Kai Tak Station and Associated Tunnels
  - 1108A - MTR Shatin to Central Link: Kai Tak Barging Point Facilities
  - 1109 - MTR Shatin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
  - 20140264 - Foundation for Home Ownership Scheme Development at Kai Tak 1G1(B)
  - 3/WSD/08, 6/WSD/08, 7/WSD/08 & 8/WSD/08 - Replacement and Rehabilitation of Water Mains Stages 2 & 3
  - CKL-KCT circuit 1&2 - CLPP (132kV cable installation)
  - DC/2011/04 - Reconstruction, Improvement and Rehabilitation of Kai Tak River from Wong Tai Sin Police Station to Tung Tau
  - KL/2011/01 - Kai Tak Development –Reconstruction and Upgrading of Kai Tak Nullah
  - KL/2012/02 - Kai Tak Development – Stage 3A Infrastructure at Former North Apron Area
  - KL/2012/03 - Kai Tak Development – Stage 4 Infrastructure at Former North Apron Area
  - KL/2013/01 - Site Formation for Kai Tak Cruise Terminal Development – Remaining Works
  - New Kowloon Inland Lot No. 6515 - Kai Tak Flat-For-Flat Development
  - New Kowloon Inland Lot No. 6516 & 6517 - Proposed Residential Development
  - New Kowloon Inland Lot No. 6525 - Residential Development at Kai Tak Area 1I Site 1
  - New Kowloon Inland Lot No. 6526 - Residential Development at Kai Tak Area 1I Site 2
  - New Kowloon Inland Lot No. 6527 - Residential Development at Kai Tak Area 1I Site 3
  - New Kowloon Inland Lot No. 6541 - Residential Development at Kai Tak Area 1H Site 3
  - SS A501 - Design and Construction of Centre of Excellence in Paediatrics
  - SS B507 - Construction of Two 30-classroom Primary Schools at Site 1A-3 and

Site 1A-4, Kai Tak Development

- Stockpiling of excavated & construction materials, storage of equipments, business in the recovery and recycling and car parks, etc are the major activities for short term tenancy (STT) / temporary government land allocation (TGLA).

**Environmental Monitoring Works**

- 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.
- Summary of the non-compliance in the reporting month for the Project is tabulated in Table 1.

**Table 1 Non-compliance Record for the Project in the Reporting Month**

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A
Noise	0	0	N/A

Remark: No complaint concerning construction noise was received in the time period of 0700 – 1900 hrs on normal weekdays.

**1-hour & 24-hour TSP Monitoring**

- All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- The air quality monitoring results in December 2015 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in December 2015 Monitoring Station**

Monitoring Station	Description	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )	24-hour TSP ( $\mu\text{g}/\text{m}^3$ )
AM1(B)	Outside Arup site office (KL/2012/02)	103 (12 - 236)	65 (52 - 82)
AM2	Lee Kau Yan Memorial School	103 (23 - 210)	72 (47 - 95)
AM3(A)	Holy Trinity Bradbury Centre	101 (16 - 219)	78 (41 - 121)

Monitoring Station	Description	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )	24-hour TSP ( $\mu\text{g}/\text{m}^3$ )
AM4(A)	EMSD Workshop	116 (17 - 252)	126 (98 - 144)
AM5(A)	Po Leung Kuk Ngan Po Ling College	115 (34 - 235)	40 (26 - 61)
AA1	Ching Long Shopping Centre	97 (30 - 232)	44 (23 - 62)
AA2	Tak Long Estate	95 (29 - 235)	93 (81 - 119)

### Construction Noise

9. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
10. The noise monitoring results in December 2015 are presented in Table 3.

**Table 3 Noise Monitoring Results in December 2015 Monitoring Station**

Monitoring Station	Description	Allowable Noise Level Leq (30min) dB (A)	Noise Level Leq (30min) dB (A)
M1	Buddhist Chi King Primary School	70	58 - 66
M2	SKH Kowloon Bay Kei Lok Primary School	70	62 - 68
M3	Rhythm Garden	75	72 - 75
M4	Cognitio College	78.7	62 - 78
M5	Lee Kau Yan Memorial School	76.7	70 - 76
M6(A)	Kowloon City District Kai Fong Association	75	68 - 72
M7(A)	Oblate Primary School	70	48 - 63
M8	CCC Kei To Secondary School	70	65 - 68
M9	Po Leung Kuk Ngan Po Ling College	70	57 - 66
M10	Tak Long Estate	75	52 - 69
MA1	Ching Long Shopping Centre	75	54 - 72

### Key Information in the Reporting Month

11. Summary of key information in the reporting month is tabulated in Table 4.

**Table 4 Summary Table for Key Information in the Reporting Month**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	2	Construction Noise during restricted hours	Investigation conducted by the Contractor	Closed	---
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

**Future Key Issues**

12. 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;
  - Watering for dust generating activity and on haul road;
  - Proper storage of construction materials on site;
  - Storage of chemicals/fuel and chemical waste/waste oil on site;
  - Accumulation of general and construction waste on site;
  - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
  - Runoff from exposed slope;
  - 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.

THE FULL VERSION EM&A REPORT FOR DECEMBER 2015 CAN BE VIEWED FROM THE ARCHIVED REPORT