

## EXECUTIVE SUMMARY

### Introduction

1. This is the 4<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Castco Testing Center Limited (CTCL) for the “Contract No. KLN/2016/09 - Environmental Monitoring Works for Kai Tak Development” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in June 2017.
  
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
  - 1109 - MTR Shatin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
  - 1114 - MTR Shatin to Central Link: Pedestrian Links at Tsz Wan Shan
  - 1123 - MTR Shatin to Central Link: Exhibition Station and Western Approach Tunnel
  - 20150362 - Construction of Home Ownership Scheme at Kai Tak Site 1G1(B)
  - 3/WSD/08, 6/WSD/08, 7/WSD/08 & 8/WSD/08 - Replacement and Rehabilitation of Water Mains Stages 2 & 3
  - 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/2014/01 - Kai Tak Development - Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway
  - KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway
  - KL/2015/02 - Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area
  - KL/2015/03 – Kai Tak Development – Stage 3B Infrastructure at Former North Apron Area
  - 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 E517 – Construction of a 30-classroom Secondary School at Kai Tak Development, Kowloon (Site 1A-2)
  - SS C503 – Design and Construction of Kowloon East Regional Headquarters and Operational Base cum Ngau Tau Kok Divisional Police Station at 105 Concorde Road, Kai Tak
  - HY/2014/18 – Provision of Barrier-Free Access Facilities for Highway Structures – Phase 3 Contract 7
3. Stockpiling of excavated & construction materials, storage of equipment, 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

4. 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.
5. 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***

6. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
8. The air quality monitoring results in June 2017 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in June 2017 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)	58 (43 – 74)	63 (37 – 82)
AM2	Lee Kau Yan Memorial School	46 (39 – 52)	56 (48 – 72)
AM3(A)	Holy Trinity Bradbury Centre	40 (19– 60)	32 (18 – 47)
AM4(C) <sup>1</sup>	NFS Pump Room	42 (21 – 59)	37 (22 – 50)
AM5(B) <sup>2</sup>	CCC Kei To Secondary School	69 (27 – 122)	70 (26 – 149)
AA1	Ching Long Shopping Centre	46 (23 - 73)	53 (28 – 88)
AA2	Tak Long Estate	67 (51 – 82)	72 (64 – 86)

<sup>1</sup> Air monitoring was carried out temporarily at AM4(C) – NFS Pump Room after demolition of AM4(A) - EMSD Workshops in December 2016 and temporary monitoring at AM4(B) - Ma Tau Kok Road (next to EMSD workshops).

<sup>2</sup> Air monitoring was conducted temporarily at AM5(B) CCC Kei To Secondary School after the owner of AM5(A) - Po Leung Kuk Ngan Po Ling College rejected the installation of HVS inside the premises in early April.

### **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 June 2017 are presented in Table 3.

**Table 3 Noise Monitoring Results in June 2017 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	53 – 64
M2	SKH Kowloon Bay Kei Lok Primary School	70	66 – 68
M3	Rhythm Garden	76.3	73 – 75
M4	Cognitio College	80	64– 79
M5	Lee Kau Yan Memorial School	76.7	75 – 76
M6(C) <sup>3</sup>	Mercy Grace's Home	76.7	64 – 76
M7(A)	Oblate Primary School	70	58 – 64

Monitoring Station	Description	Allowable Noise Level Leq (30min) dB (A)	Noise Level Leq (30min) dB (A)
M8	CCC Kei To Secondary School	70	62 – 69
M9	Po Leung Kuk Ngan Po Ling College	70	56 – 66
M10	Tak Long Estate	75	63 – 67
MA1	Ching Long Shopping Centre	75	63 – 64

<sup>3</sup> Noise monitoring was temporarily conducted at M6(C) - Mercy Grace's Home after rejected access to M6(A) - Kowloon City District Kai-Fong Welfare Association in October 2016 and temporary monitoring at M6(B) - HK Deaf People Christian Church.

### 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	5	Construction Noise and muddy water discharged	Investigation was 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 JUNE 2017 CAN BE VIEWED FROM THE ARCHIVED REPORT