

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 16<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Castco Testing Centre Limited (CTCL) “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 2018.
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
  - 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
  - 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. 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
  - New Kowloon Inland Lot No. 6562 – Residential Development at Kai Tak Area 1K Site 3
  - New Kowloon Inland Lot No. 6563 – Residential Development at Kai Tak Area 1L Site 1
  - New Kowloon Inland Lot No. 6564 – Residential Development at Kai Tak Area 1L Site 2
  - New Kowloon Inland Lot No. 6565 – Residential Development at Kai Tak Area 1L Site 3

- New Kowloon Inland Lot No. 6566 – Residential Development at Kai Tak Area 1K Site 2
  - New Kowloon Inland Lot No. 6567 – Residential Development at Kai Tak Area 1K Site 1
  - New Kowloon Inland Lot No. 6557 – Commercial Development at Kai Tak Area 1E Site 2
  - SS A501 – Design and Construction of Centre of Excellence in Paediatrics
  - SS E517 – Construction site of 30-classroom secondary school at Site 1A-2, Kai Tak
  - SS C503 – Design and Construction of Kowloon East Regional Headquarters and Operational Base cum Ngan 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
  - HY/2014/07 – Central Kowloon Route - Kai Tak West
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 I.

**Table I 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

#### 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 2018 are presented in Table2.

**Table 2 Air Quality Monitoring Results in June 2018 Monitoring Station**

Monitoring Station	Description	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )	24-hour TSP ( $\mu\text{g}/\text{m}^3$ )
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AM1(C)	Contractor's Site Office of KL/2015/03	65 - 110	43 - 111
AM2	Lee Kau Yan Memorial School	57 - 77	40 - 51
M3(A)	Holy Trinity Bradbury Centre	53 - 88	36 - 76
AM4(C)	NFS Pump Room	31 - 62	39 - 58
AM5(B)	CCC Kei To Secondary School	42 - 103	40 - 89
AA1	Ching Long Shopping Centre	55 - 123	39 - 83
AA2	Tak Long Estate	40 - 135	43 - 132

### *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 2018 are presented in Table3.

**Table 3 Noise Monitoring Results in June 2018 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	56.1 – 62.1
M2	SKH Kowloon Bay Kei Lok Primary School	70	60.2 – 62.8
M3	Rhythm Garden	76.3	66.1 – 76.1
M4	Cognitio College	80	60.4 – 66.4
M5	Lee Kau Yan Memorial School	76.7	60.4 – 69.1
M6(C)	Mercy Grace's Home	78	61 – 77.4
M7(A)	Oblate Primary School	70	52.4 – 63.7
M8	CCC Kei To Secondary School	70	60.9 – 62.5
M9	Po Leung Kuk Ngan Po Ling College	70	59.3 – 62.3
M10	Tak Long Estate	75	57.3 – 60.8

MA1	Ching Long Shopping Centre	75	60 – 65.5
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#### Key Information in the Reporting Month

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

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

Event	Event Details		Action taken	Status	Remark
	Number	Nature			
Complaint received	5	Construction Noise, Construction Dust and Odour	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 2018 CAN BE VIEWED FROM THE ARCHIVED REPORT