

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 4<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. EDO 5/2019 – Environmental Team for Kai Tak Development” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in September 2020.
2. During the reporting month, the following works contracts were undertaken within Kai Tak Site:
  - 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
  - 6/WSD/08 & 7/WSD/08 – Replacement and Rehabilitation of Water Mains Stages 2 & 3
  - SS G506 – Construction of Station Square at Kai Tak Phase I
  - 1389EM18A – District Cooling System (DCS) at Kai Tak Development (KTD) – Chilled Water Pipe Laying and Associated Works in North Apron
  - 2852EM17A – District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package D) – Water Pipe Laying Works
  - 2853EM17W – District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package D) – Electrical and Mechanical Installation
  - HY/2014/18 – Provision of Barrier-Free Access Facilities for Highway Structure – Phase 3 Contract 7
  - HY/2014/07 – Central Kowloon Route – Kai Tak West
  - SCL1109 - MTR Shatin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
  - SCL1121 – MTR Shatin to Central Link: Cross Harbour Tunnels
  - SCL1123 – MTR Shatin to Central Link: Exhibition Station and Western Approach Tunnel
  - New Kowloon Inland Lot No. 6556 – Residential Development at Kai Tak Area 1F Site 2
  - New Kowloon Inland Lot No. 6557 – Commercial Development at Kai Tak Area 1E Site 2
  - 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. 6568 – Residential Development at Kai Tak Area 1F Site 1
  - New Acute Hospital at Kai Tak Development Area - foundation, excavation and lateral support, and basement excavation works Site A – 8110059224
  - New Acute Hospital at Kai Tak Development Area – foundation, excavation and lateral support, and basement excavation works Site B – 8110059225
  - HAB/KTSP/01 – Design, Construction and Operation of the Kai Tak Sports Park at Kai Tak, Kowloon City District, Hong Kong

### Environmental Monitoring Works

3. 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.
4. 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*

5. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
6. The air monitoring station, AM4(C) – NFS Pump Room, was inaccessible since the Environmental Team (ET) took over from the previous ET as the Drainage Services Department (DSD) rejected the monitoring work in their building. Therefore, the 1-hour TSP monitoring location was relocated from the rooftop of the pump room to the ground level. The 24-hour TSP monitoring was suspended since mid-June 2020 until the alternative monitoring location has been confirmed. The last sampling date of 24-hour TSP at AM4(C) was 9 June 2020. While the Environmental Team (ET) are searching for a suitable alternative station, the 24-hour TSP monitoring at AM4(C) will be resumed when the alternative station was approved by the Independent Environmental Checker (IEC) and the Environmental Protection Department (EPD).
7. According to the past 24-hour TSP monitoring results at AM4(C), the measured TSP concentrations were stable and were much lower than the Action Level. As the 1-hr TSP concentration also has a large margin from the Action Level, no exceedance of the 24-hour TSP is anticipated.
8. All other 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
9. The air quality monitoring results in the reporting month are presented in Table II.

**Table II Air Quality Monitoring Results in the Reporting Month**

Monitoring Station	Description	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )	24-hour TSP ( $\mu\text{g}/\text{m}^3$ )
AM1(C)	Contractor's Site Office of KL/2015/03	22 - 97	29.7 - 99.5
AM2	Lee Kau Yan Memorial School	22 - 122	26.9 - 82.3
AM3(A)	Holy Trinity Bradbury Centre	20 - 54	30.0 - 57.5
AM4(C) <sup>(1)(2)</sup>	Near NFS Pump Room	22 - 65	N.A.
AM5(B)	CCC Kei To Secondary School	22 - 57	11.4 - 34.3
AA1	Ching Long Shopping Centre	36 - 90	26.4 - 64.4
AA2	Tak Long Estate	26 - 83	12.3 - 97.3
AA4	Hong Kong Children's Hospital	34 - 68	31.2 - 99.2

(1) The monitoring work was suspended from mid-June 2020 due to our high volume sampler (HVS) installation has been rejected by the facility's owner. The alternative monitoring station is to be confirmed

### ***Construction Noise***

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

11. The noise monitoring results in the reporting month are presented in Table III.

**Table III Noise Monitoring Results in the Reporting Month**

Monitoring Station	Description	Noise Level, Leq (30min) dB(A)
M1	Buddhist Chi King Primary School	58.5 – 64.0
M2	S.K.H. Kowloon Bay Kei Lok Primary School	63.1 – 66.4
M3	Rhythm Garden	60.0 – 76.2
M4	Cognitio College	73.5 – 77.9
M5	Lee Kau Yan Memorial School	74.3 – 76.1
M6(C)	Mercy Grace's Home	66.1 – 77.3

Monitoring Station	Description	Noise Level, Leq (30min) dB(A)
M7(A)	Oblate Primary School	55.2 – 62.5
M8	CCC Kei To Secondary School	58.0 – 61.7
M9	Near Chi Tun School	55.0 – 60.9
M10	Tak Long Estate Car Park	59.8 – 65.8
MA1	Ching Long Shopping Centre	54.4 – 65.4
MA3	Hong Kong Children's Hospital	67.5 – 71.0

### Key Information in the Reporting Month

12. Summary of key information in the reporting month is tabulated in Table IV.

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

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	9	Noise & Water	<p>The Contractor has already implement following mitigation measures for avoid potential water pollution (EPD ref. EP3/K10/RE/00020 364-20):</p> <ul style="list-style-type: none"> <li>- Footing of hoarding near the sea side has been re-sealed.</li> <li>- Regular checking of the water body quality and take the record of muddy water discharged from the box culvert.</li> <li>- Regular cleaning of the sedimentation tanks and treatment plants to comply with the water quality requirement.</li> <li>- Sedimentation ponds and tanks have been provided</li> </ul>	1 complaint has been closed, 8 complaints are under investigation	---

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
			for temporary waste water storage.		
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

### Future Key Issues

13. 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.

EM&A REPORT FOR SEPTEMBER 2020 (FULL VERSION)

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