

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 25<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Contract No. KLN/2010/04 - Environmental Monitoring Works for Kai Tak Development” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in January 2013.
2. During the reporting month, the following works contracts were undertaken within Kai Tak Site:
  - KL/2009/01 - Site Formation for Kai Tak Cruise Terminal
  - KL/2008/09 - Stage 1 Infrastructure works at North Apron
  - KL/2008/07 - Stage 1 Advance Infrastructure Works
  - DC/2008/12 - Sewage Interception Scheme in Kowloon City
  - DC/2010/03 - Kai Tak Nullah Improvement Works at Prince Edward Road East
  - DC/2009/21 - Provision of Interception Facilities at Jordan Valley Box Culvert
  - 20090097 - Public Rental Housing Development at Kai Tak Site 1A
  - 20090006 - Public Rental Housing Development at Kai Tak Site 1B
  - 3/WSD/08, 6/WSD/08, 7/WSD/08 & 8/WSD/08 - Replacement and Rehabilitation of Water Mains Stages 2 & 3
  - SS W 303 - Kai Tak Cruise Terminal Building and Ancillary Facilities
  - CKL-KCT circuit 1&2 - CLPP (132kV cable installation)
  - 1016EM10 - Chilled Water Pipe Laying Works at North Apron Area for District Cooling System at Kai Tak Development
  - 1017EM10 - Design-Build-Operate a District Cooling System (Phase II Works) at Kai Tak Development
  - KL/2010/02 - Kai Tak Development – Kai Tak Approach Channel and Kwun Tong Typhoon Shelter Improvement Works (Phase 1)
  - KL/2010/03 - Kai Tak Development – Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities)
  - 1049EM10 - Kai Tak Cruise Terminal Development – On-shore Sewage Collection, On-shore Fresh Water Supply, and Fire Hydrant Water Supply Systems
  - 1050EM10 - Design and Build of Seaport Passenger Boarding Bridges for the Kai Tak Cruise Terminal
  - 1140EM11M - Advance Works for the Apron Lighting System of the Kai Tak Cruise Terminal
  - DC/2011/04 - Reconstruction, Improvement and Rehabilitation of Kai Tak River from Wong Tai Sin Police Station to Tung Tau

- SS W304 – Design and Construction of Trade and Industry Tower in Kai Tak Development Area
  - 1048EM12M - Supply and Installation of Apron Low Voltage Power Supply Systems for the Kai Tak Cruise Terminal
  - SSA504 - Runway Park at Kai Tak, Kowloon City District - Phase 1
  - 1119EM12M – Apron Lighting System for Kai Tak Cruise Terminal
  - 1108A – Kai Tak Barging Point Facilities
  - 1109 – Sha Tin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
  - New Kowloon Inland Lot No. 6515 – Kai Tak Flat-For-Flat Development
3. Stockpiling of excavated & construction materials, storage of equipment, operation of concrete batching plant, 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 approved by Environmental Protection Department 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**

| <b>Parameter</b> | <b>No. of Exceedance Action Level</b> | <b>No. of Exceedance Limit Level</b> | <b>Action Taken</b> |
|------------------|---------------------------------------|--------------------------------------|---------------------|
| 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 & 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 January 2013 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in January 2013**

| Monitoring Station | Description                       | 1-hour TSP ( $\mu\text{g}/\text{m}^3$ ) | 24-hour TSP ( $\mu\text{g}/\text{m}^3$ ) |
|--------------------|-----------------------------------|---|--|
| AM1(A)             | Kai Tak Operational Base          | 126.1-314.1                             | 76.3-109.8                               |
| AM2                | Lee Kau Yan Memorial School       | 126.8-321.3                             | 83.6-139.9                               |
| AM3(A)             | Holy Trinity Bradbury Centre      | 150.9-330.6                             | 74.5-145.9                               |
| AM4(A)             | EMSD Workshop                     | 123.5-338.2                             | 36.7-83.7                                |
| AM5(A)             | Po Leung Kuk Ngan Po Ling College | 145.8-298.1                             | 37.0-98.4                                |

Note: The 1-hour and 24-hour TSP limit levels are 500 and 260  $\mu\text{g}/\text{m}^3$  respectively.

#### *Construction Noise*

7. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The noise monitoring results in January 2013 are presented in Table 3.

**Table 3 Noise Monitoring Results in January 2013**

| Monitoring Station | Description                               | Allowable Noise Level $L_{\text{eq}}$ (30min) dB (A) | Noise Level $L_{\text{eq}}$ (30min) dB (A) |
|--------------------|---|--|--|
| M1                 | Buddhist Chi King Primary School          | 70   | 56.1-63.1                                  |
| M2                 | SKH Kowloon Bay Kei Lok Primary School    | 70   | 57.8-68.7                                  |
| M3                 | Rhythm Garden                             | 76.3   | 62.4-69.1                                  |
| M4(A)              | Kai Tak Operational Base                  | 75   | 55.6-70.5                                  |
| M5                 | Lee Kau Yan Memorial School               | 76.7   | 64.9-72.5                                  |
| M6(A)              | Kowloon City District KaiFong Association | 75   | 64.6-70.5                                  |
| M7                 | Holy Carpenter Primary School             | 70   | 58.9-63.5                                  |
| M8                 | CCC Kei To Secondary School               | 70   | 60.1-65.5                                  |
| M9                 | Po Leung Kuk Ngan Po Ling College         | 70   | 57.3-67.0                                  |

### Key Information in the Reporting Month

8. 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  | Number of Events Happened | Nature of the Event | Action Taken | Status | Remark |
|--|---------------------------|---------------------|--------------|--------|--------|
| 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

9. 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 JANUARY 2013 CAN BE VIEWED FROM THE ARCHIVED REPORT