

Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Appendix N – Summary of Exceedance

Reporting Period: September 2021

(A) Exceedance Report for Air Quality

One (1) Limit Level and one (1) Action Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

Monitoring Station	Start Date	Conc. ($\mu\text{g}/\text{m}^3$)	Level exceeded
AM1	15 September 2021	<u>485.2</u>	Limit level
	28 September 2021	239.8	Action level

The investigation results for the exceedance are attached as below.

(B) Exceedance Report for Construction Noise

No Action/ Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

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NOE No. 210915_24hrTSP (AM1) **Exceedance Level:** Limit
 NOE No. 210928_24hrTSP (AM1) **Exceedance Level:** Action

Date of Air Quality Monitoring: 15 & 28 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – 24-hour TSP

Station	Location	Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
AM1	Tin Hau Temple	0900 (15 Sep 2021) – 0900 (16 Sep 2021)	Sunny	<u>485.2</u>	173.0	260.0	Limit
		0900 (28 Sep 2021) – 0900 (29 Sep 2021)		239.8			Action

Note: ***Bold Italic*** means Action Level exceedance
 Bold Italic with underline means Limit Level exceedance

Part B – Major Source of Parameter Monitored

Field Observation(s) and Finding(s)

<p>(a) Statement of exceedance(s) 24-hour TSP monitoring measured at AM1 on 15 and 28 September 2021 exceeded the limit and action level respectively.</p>
<p>(b) Cause of exceedance(s) According to the observation of our field staff, the major dust source(s) and/or reason(s) for exceedance identified at AM1 is/are as follow:</p> <ol style="list-style-type: none"> 1. Renovation of Tin Hau Temple began in mid-May 2021. 2. According to our field observation, piles of renovation material were scattered around Tin Hau Temple during the monitoring period (see the photo record). Frequent material transportation may cause dust nuisance to the surrounding 3. Dust generating activities (cement mixing) by renovation staff was observed on-site 4. Joss paper furnace was found right next to the HVS, which may affect the result if incense burning was conducted. 5. Non-project related construction works (TKOLTT project) 6. Road traffic along Cha Kwo Ling Road 7. RE and Contractor have confirmed that no construction activity was carried out in the vicinity of the Tin Hau Temple on 15-16 and 28-29 September 2021 under this contract.

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Photo Record (Photo Taken by ET)



Photo 1 – Recent condition of the High Volume Sampler (HVS) at AM1, Tin Hau Temple. Debris and waste were scattered around the HVS (Taken on 29 Sep 2021)

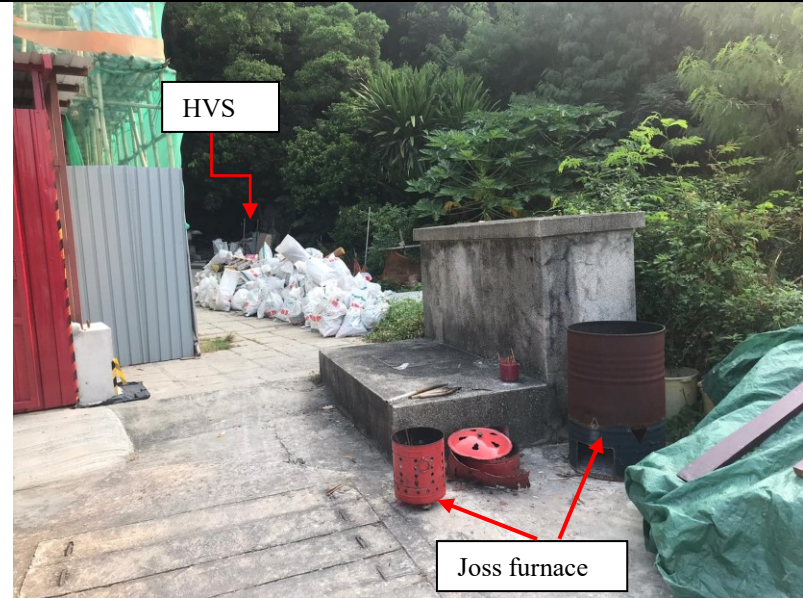


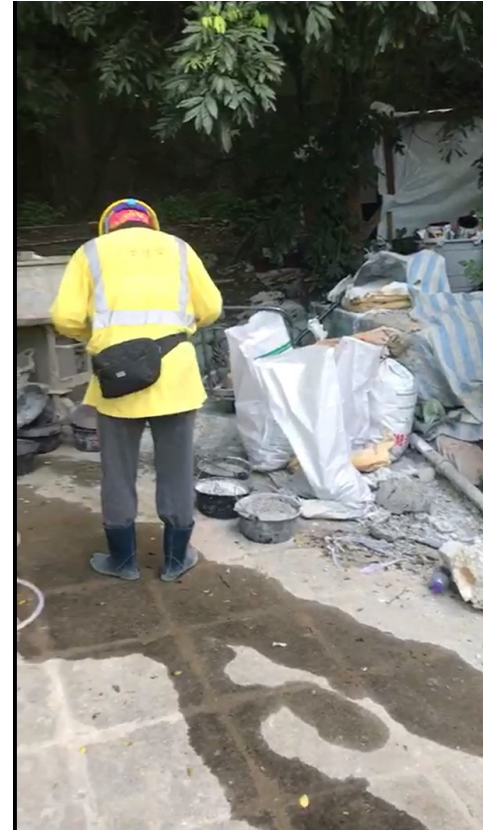
Photo 2 – The HVS was swallowed by bags of dusty materials and the joss furnace located near the HVS. (Taken on 29 Sep 2021)

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Video Screenshot 1 - Cement mixing carried out by the worker of Temple renovation work



Video Screenshot 2 - Cement mixing carried out by the worker of Temple renovation work

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Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level and Action Level exceedance of 24-hour TSP recorded at station AM1 on 15 & 28 September 2021 respectively are due to the non-project related influence. Therefore, the exceedance is considered as **non-project related**.

Part D – Recommendation

Although the exceedance is consider as non-project related, it is recommended that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

1. Watering of the construction areas 12 times per day to reduce dust emissions.
2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
3. Open stockpiles shall be avoided or covered.
4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.