

Contract No. ED/2018/04

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

Appendix I – Summary of Exceedance

Reporting Quarter: November 2021 – January 2022

(A) Exceedance Report for Air Quality

One (1) Action Level and two (2) Limit Level exceedance of 24hr TSP monitoring were recorded in this reporting quarter.

Monitoring Station	Start Date	Conc. ($\mu\text{g}/\text{m}^3$)	Level exceeded
AM1	04 November 2021	<u>318.4</u>	Limit level
	10 November 2021	<u>273.0</u>	
	16 November 2021	<u>175.6</u>	Action level

The investigation results for the exceedance are attached as below.

No Action/ Limit Level exceedance of 1hr TSP monitoring was recorded in this reporting quarter.

(B) Exceedance Report for Construction Noise

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

(C) Exceedance Report for Landfill Gas

(NIL in the reporting quarter)

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NOE No. 211104_24hrTSP (AM1) **Exceedance Level:** Limit
 NOE No. 211110_24hrTSP (AM1) **Exceedance Level:** Limit
 NOE No. 211116_24hrTSP (AM1) **Exceedance Level:** Action

Date of Air Quality Monitoring: 04, 10 & 16 November 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – 24-hour TSP

Station	Location	Time	Filter Weight (g) Initial	Filter Weight (g) Final	Particulate Weight	Particulate Concentration g/m3)	Action Level: (µg/m3)	Limit Level:	Level
AM1	Tin Hau Temple	0900 (04 Nov 2021) – 0900 (05 Nov 2021)	3.6632	4.2245	0.5613	<i><u>318.4</u></i>	173	260	Limit
		0900 (10 Nov 2021) – 0900 (11 Nov 2021)	3.7202	4.2060	0.4858	<i><u>273.0</u></i>			Limit
		0900 (16 Nov 2021) – 0900 (17 Nov 2021)	3.6956	4.0068	0.3112	<i><u>175.6</u></i>			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)

(a) Statement of exceedance(s)
 24-hour TSP monitoring measured at AM1 on 04 and 10 November 2021 exceeded the limit level and 16 November 2021 exceeded the action level.

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(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:

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 04 – 05, 10 - 11 and 16 - 17 November 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.
(Taken on 24 Nov 2021)



Photo 2 – Dust generating activities (cement mixing) by renovation staff at AM1, Tin Hau Temple.
(Taken on 24 Nov 2021)

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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 04&10 and 16 November 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.