

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: May 2021 - July 2021

(A) Exceedance Report for Air Quality

One (1) Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting quarter.

| Monitoring Station | Start Date | Conc. ($\mu\text{g}/\text{m}^3$) | Level exceeded |
|--------------------|--------------|------------------------------------|----------------|
| AM1 | 30 June 2021 | 702.0 | Limit level |

The investigation results for the exceedance are attached as below.

(B) Exceedance Report for Construction Noise

One (1) exceedance for daytime construction noise monitoring was recorded in the reporting quarter.

| Date | Monitoring Location | Measured Level (L_{eq} dB(A)) | Baseline Noise Level (L_{eq} dB(A)) | Construction Noise Level (L_{eq} dB(A)) | Limit Level |
|--------------|---------------------|---|---|---|-------------|
| 22 June 2021 | CM5 | 78.5 | 68.2 | <u>78</u> | 75 |

The investigation results for the exceedance are attached as below.

(C) Exceedance Report for Landfill Gas

(NIL in the reporting quarter)

Environmental Permit No.: EP-451/2013
Environmental Team for Trunk Road T2

- Notification of Exceedances

NOE No. 210630_24hrTSP (AM1) **Exceedance Level:** Limit

Date of Air Quality Monitoring: 30 June 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – 24-hour TSP

| Station | Location | Starting Time | Weather Condition | Conc. ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) | Level exceeded |
|---------|----------------|---------------|-------------------|---------------------------------------|--|---|-------------------|
| AM1 | Tin Hau Temple | 09:00 | Sunny | <u>702.0</u> | 173.0 | 260.0 | Limit |

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

Part B – Major Source of Parameter Monitored

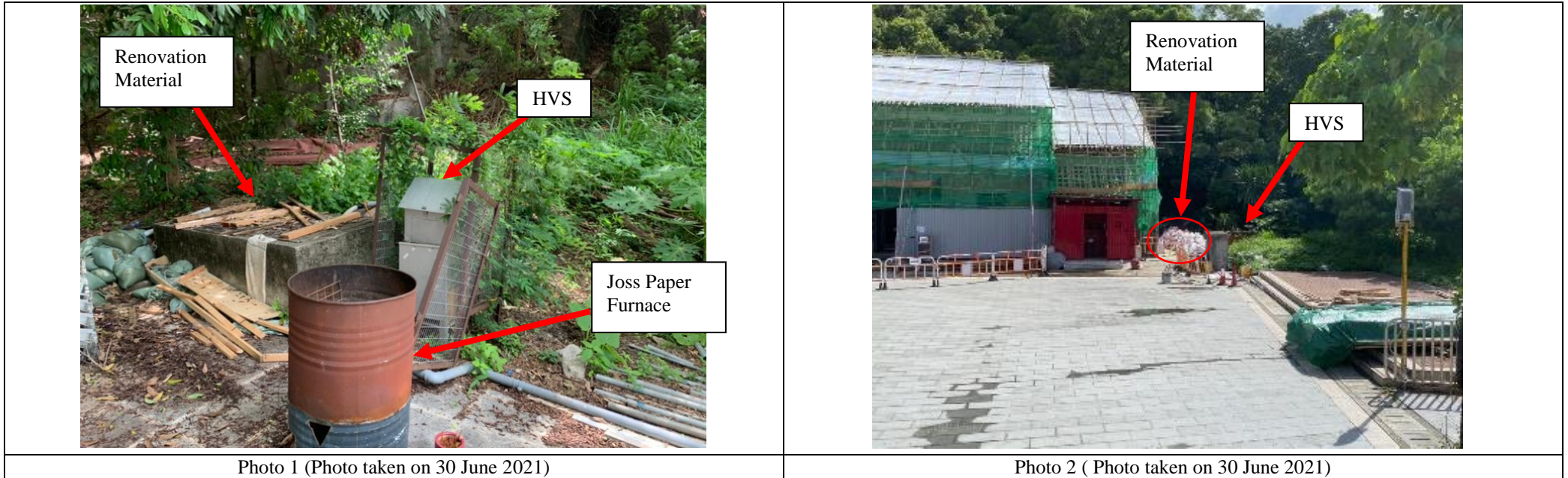
Field Observation(s) and Finding(s)

| |
|---|
| (a) Statement of exceedance(s) 24-hour TSP monitoring measured at AM1 on 30 June 2021 exceeded the limit level. |
| (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: <ol style="list-style-type: none"> 1. Renovation of Tin Hau Temple began in mid-May 2021. 2. Piles of renovation material were scattered around Tin Hau Temple during the monitoring period (See Photo 1 and 2). Frequent material transportation may cause dust nuisance to the surrounding. 3. Joss paper furnace was found right next to the HVS, which may affect the result if incense burning was conducted. 4. Non-project related construction works (TKOLTT project) 5. Road traffic along Cha Kwo Ling Road 6. RE and Contractor have confirmed that no construction activity was carried out in the vicinity of the Tin Hau Temple on 30 June 2021 - 1 July 2021 under this contract. |

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- Notification of Exceedances

Photo Record (Photo Taken by ET)



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Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the limit Level exceedance of 24-hour TSP recorded at station AM1 on 30 June 2021 is 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.

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- Notification of Exceedances

NOE No. 210622_noise (CM5) **Exceedance Level:** Limit

Time of Measurement: 16:32-17:34

Date of Noise Monitoring: 22 June 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Construction Noise

| Station | Location | Time | Measured Level (L _{eq} dB(A)) | Baseline Noise Level (L _{eq} dB(A)) | Construction Noise Level (L _{eq} dB(A)) | Action Level | Limit Level (L _{eq} dB(A)) | Level exceeded |
|---------|---------------------------------------|---------------|---|---|---|--|--|----------------|
| CM5 | CCC Kei Faat Primary School, Yau Tong | 16:32 – 17:34 | 78.5 | 68.2 | <u>78</u> | When one documented complaint is received. | 75 | Limit |

Field Observation(s) and Conclusion

| |
|---|
| <p>(a) Statement of exceedance(s)</p> <p>Construction noise measured at CM5 exceeded the construction noise (day time) limit level.</p> |
| <p>(b) Cause of exceedance(s)</p> <p>According to the observation of our field staff, the major noise source(s) and/or reason(s) for exceedance identified at CM5 is/are as follow:</p> <ol style="list-style-type: none"> 1. During both first time and repeated measurement, our field staff observed that breaking activity was carried out continuously on the site of TKOLTT. The noise generated by the breaker during breaking activity dominates the ambient or background noise. (See Photo 1) 2. Road traffic along Yau Tong Road. 3. Noise barriers were erected on the site of TKOLTT. 4. Noise barriers were erected on the site of Trunk Road T2. |

Environmental Permit No.: EP-451/2013
Environmental Team for Trunk Road T2

- Notification of Exceedances

Photo Record (Photo Taken by ET)

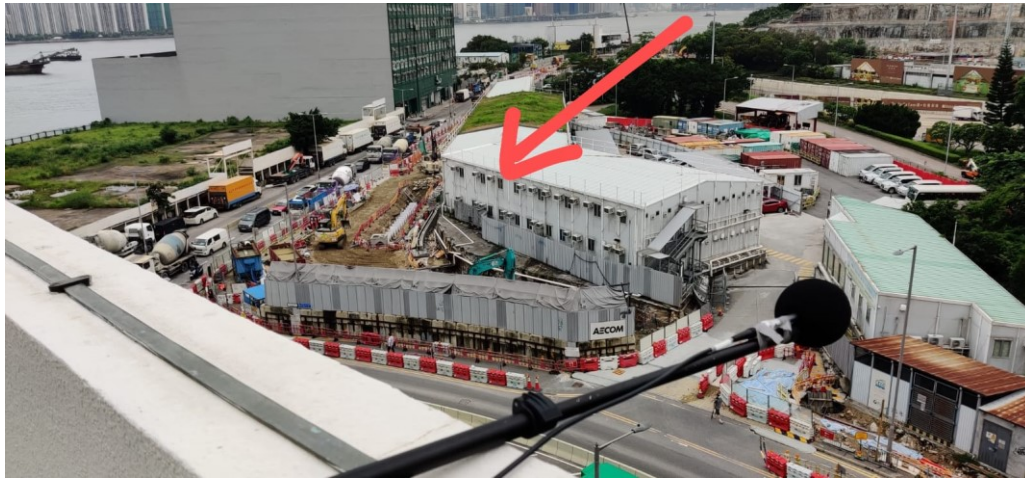


Photo 1



Photo 2

Environmental Permit No.: EP-451/2013

Environmental Team for Trunk Road T2

- Notification of Exceedances

Part B – Conclusion:

Based on the finding(s) and observation(s) above, the limit level exceedance of construction noise recorded at station CM5 on 22 June 2021 was due to the construction activities of the TKOLTT project. Therefore, the exceedance is considered as **non-project related**.

Part C – Recommendation:

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

1. Use of temporary or fixed noise barriers with a surface density of at least 10kg/m² to screen noise from movable and stationary plant;
2. Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc;
3. Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;
4. Mobile plant, if any, should be sited as far from NSRs as possible;
5. Use of site hoarding as a noise barrier to screen noise at low level NSRs;
6. Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and
7. Any material stockpiles and other structures should be effectively utilized, wherever practicable, to screen the noise from on-site construction activities.