

Appendix M

Investigation Report for Exceedances

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Investigation Report of Environmental Quality Exceedance(s)

Ref. No.: A140723_24TSP

Date	23 July 2014
Time	--
Monitoring Location	SR77
Parameter	24-Hr Total Suspended Particulate
Action / Limit Levels	Action Level: 170.3µg/m ³ Limit Level: 260µg/m ³
Measured Level	402.1µg/m ³ (Limit level being exceeded)
Possible reason for the exceedance	<p>The construction works being undertaken by another Contractor (under Contract No. DC/2010/10) has been observed within close proximity of the High Volume Sampler (HVS) of the air quality monitoring station at SR77 (refer to the attached photos).</p> <p>Observed construction works including excavation with an excavator (refer to the attached Photo 1) and some works conducted at the u-channel next to the HVS (refer to the attached Photo 2).</p> <p>Such construction works would release fugitive dust during the sunny weather and the emission would contribute to a higher TSP Level.</p> <p>Thus, these construction works are anticipated to cause the elevated TSP levels as have been measured by our HVS.</p> <p>Also, the HVS is located close to roadside. When there is traffic, the vehicles may cause disturbance to the nearby open excavation sites, generate dust impact and affect the TSP results recorded by the HVS.</p> <p>On the other hand, the construction works carried out for the Entrusted Portion during the monitoring period included backfilling works being carried out at northern side of the site and erection of noise barrier NB71, which were at a much farther distance from the air quality monitoring station at SR77 (refer to the attached location plan showing the works activities of the entrusted portion).</p> <p>In addition, proper mitigation measures for these construction works, including the use of water spraying and covering of exposed slopes where applicable, have been implemented and being monitored by an EM&A programme. No significant dust emission has been observed (refer to the attached Photo 3)</p> <p>As such, the exceedance was unlikely due to the construction works of the project.</p>

Action taken / to be taken	As the exceedance was non-project related, no further investigation and specific remedial measure(s) would be recommended for the Entrusted Works. Nevertheless, the following mitigation measures had been implemented on-site for dust suppression: 1. Exposed slopes near the river were covered with impervious sheets; 2. Any open stockpile of construction materials were covered with impervious sheet; and 3. Sufficient watering was applied along the haul road.
Remarks	-

Photo 1: Construction works observed within close proximity of SR77 (Date: 23 July 2014)



Photo 2: Construction works observed within close proximity of SR77 (Date: 23 July 2014)



Photo 3: Overview of the construction works site which significant dust emission was not observed (Date: 23 July 2014)





SETTING OUT POINTS

	EASTING	NORTHING
A	833867.6259	837368.5638
B	833945.6833	837375.1412
C	833721.8117	838310.5250
D	833782.3083	838375.1303

Location of construction works site by another contractor

Backfilling of soil to reach the same level as Fanling Highway

Construction of noise barrier NB71

SR77
 Air Monitoring Satation

