

CLEM7 in-tunnel air quality

Monthly trend report – November 2018

The table below sets out the in-tunnel air quality criteria for the Clem 7 tunnel as set out in the Coordinator General's Report.

- For the month of November 2018 no notable trends have emerged.

Table 1: In-tunnel air quality criteria

Parameter	Criteria
Carbon monoxide (CO)	70 ppm generally 90 ppm in peak traffic congestion
Nitrogen dioxide (NO ₂)	1 ppm (average)
Visibility coefficient (K)	0.005 m ⁻¹ for free flowing traffic (greater than 50km/hr) 0.007 m ⁻¹ otherwise

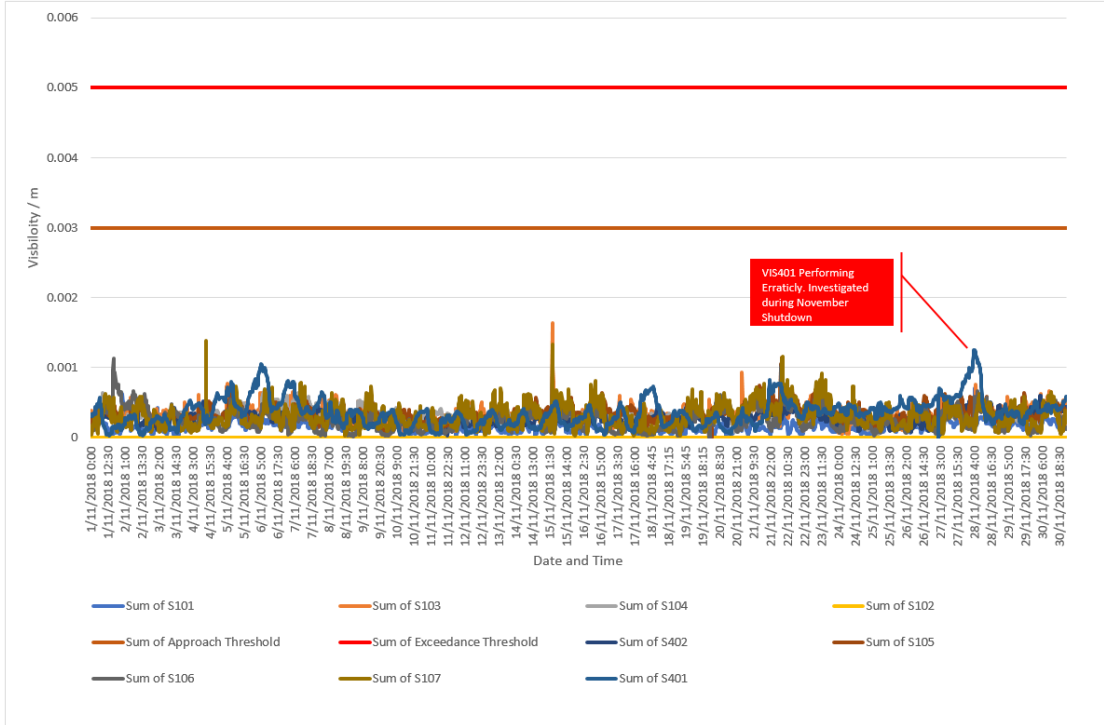
Notes:

1. Monitoring and measuring protocols for each criteria as set out in the PIARC guidelines, as current December 2009.
2. Peak traffic congestion occurs when traffic flows are less than 10 km/h.
3. Visibility coefficient (K-value) may fluctuate with peak conditions.

CLEM7 IN-TUNNEL AIR QUALITY

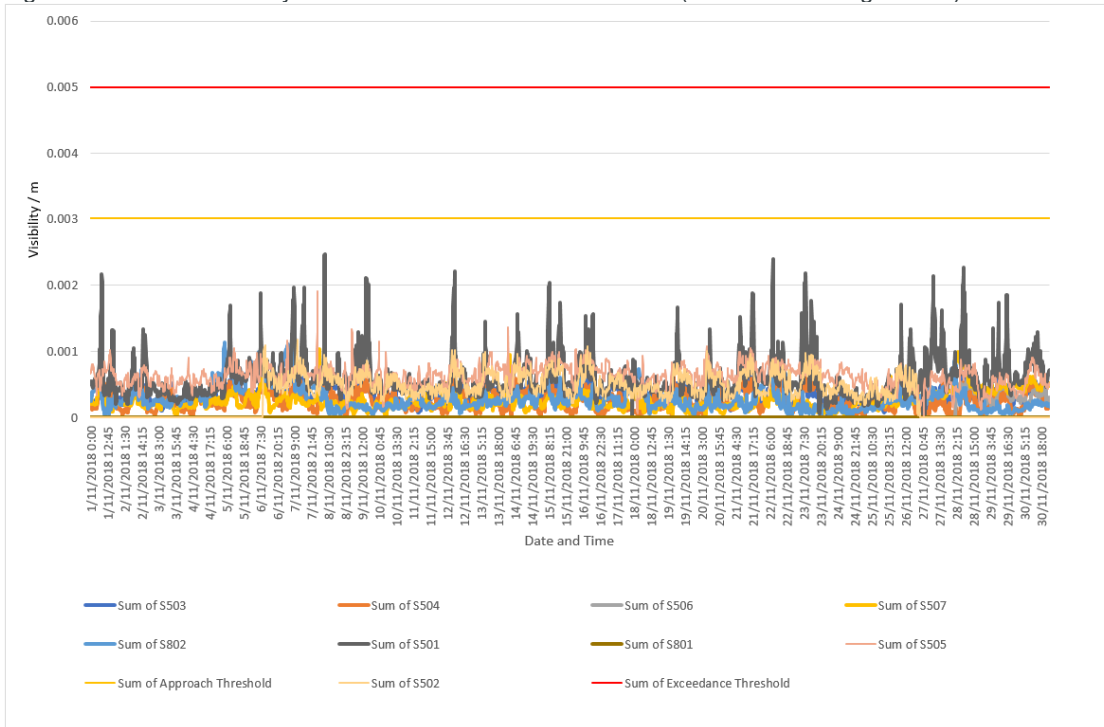
Visibility

Figure 1: In-tunnel visibility extinction coefficient – Northbound (15 minute averaged data)



S102 Reported with high / erratic levels. Maintenance undertaken during November shutdown
 S401 Reported with high / erratic levels. Maintenance undertaken during November shutdown

Figure 2: In-tunnel visibility extinction coefficient – Southbound (15 minute averaged data)

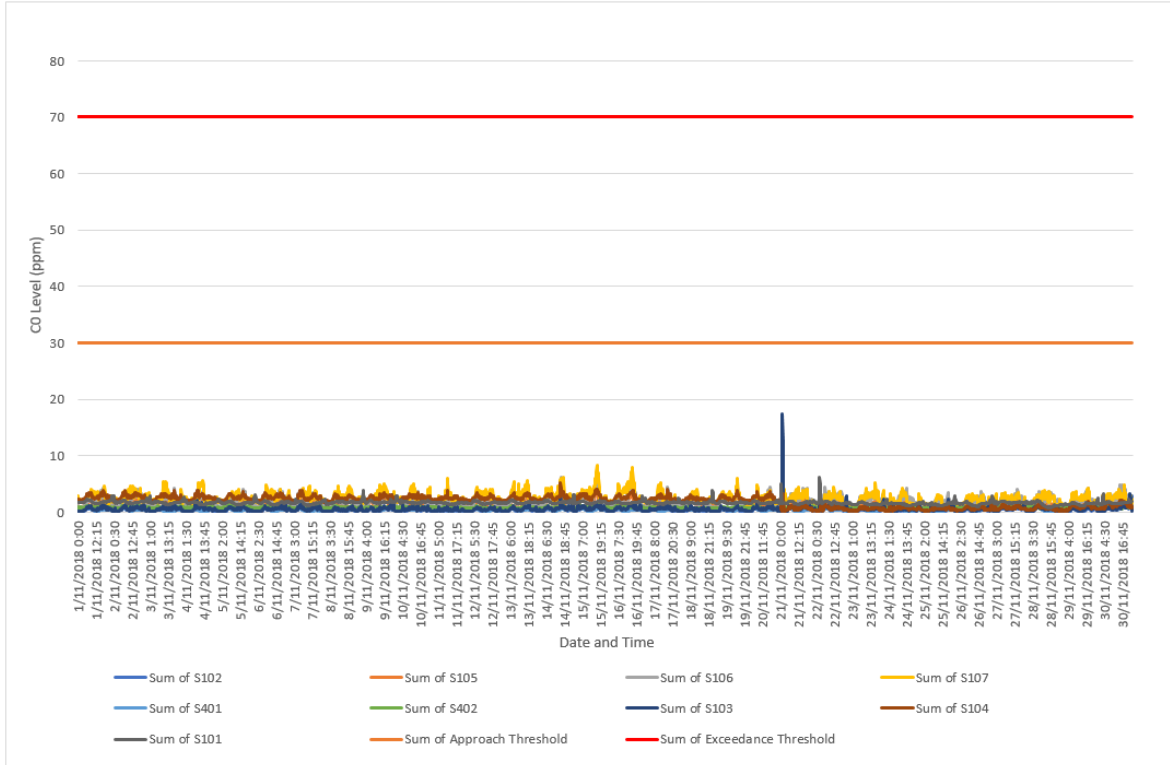


S502: Not powered during early November. Corrective maintenance attempted during November shutdown occurred. Unit removed for further testing.
 S506: Sensor displaying an erratic reading. Corrective maintenance occurred during November shutdown.
 S801: No data available. Corrective maintenance attempted during November shutdown occurred. Unit removed for further testing.

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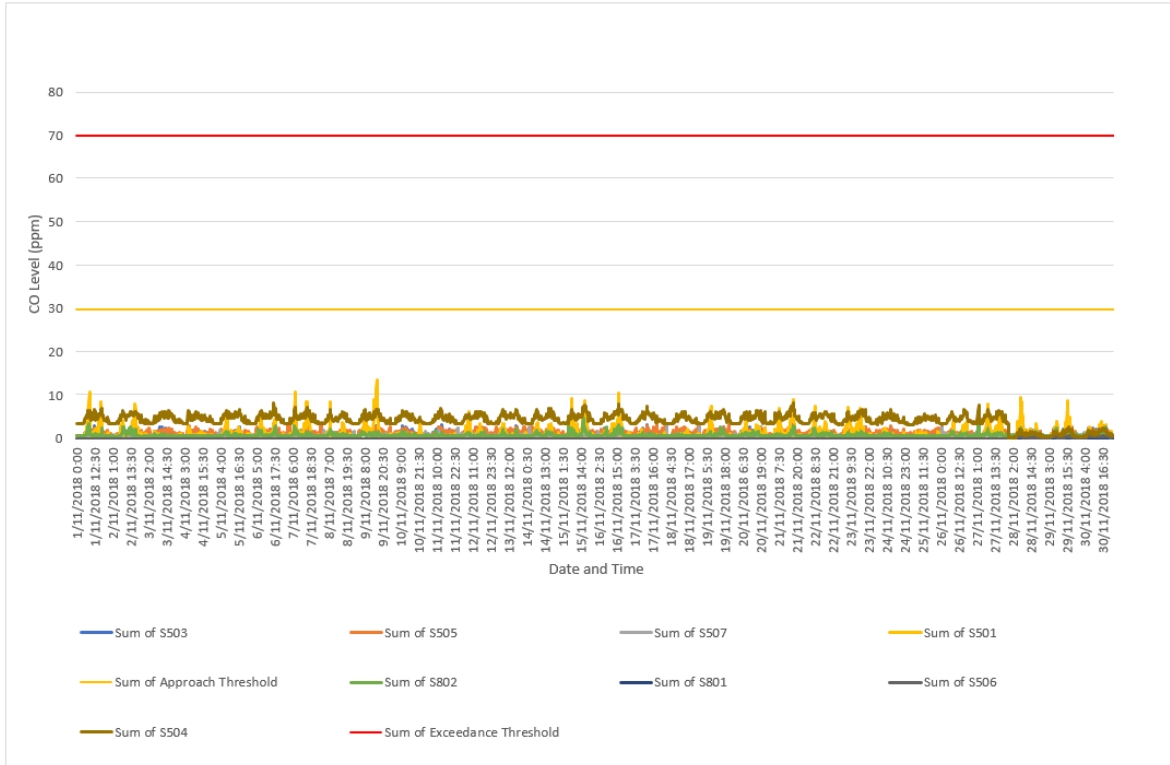
Carbon monoxide

Figure 3: In-tunnel Carbon Monoxide (CO) Concentrations - Northbound (15 minute averaged data)



No comments.

Figure 4: In-tunnel Carbon Monoxide (CO) Concentrations - Southbound (15 minute averaged data)

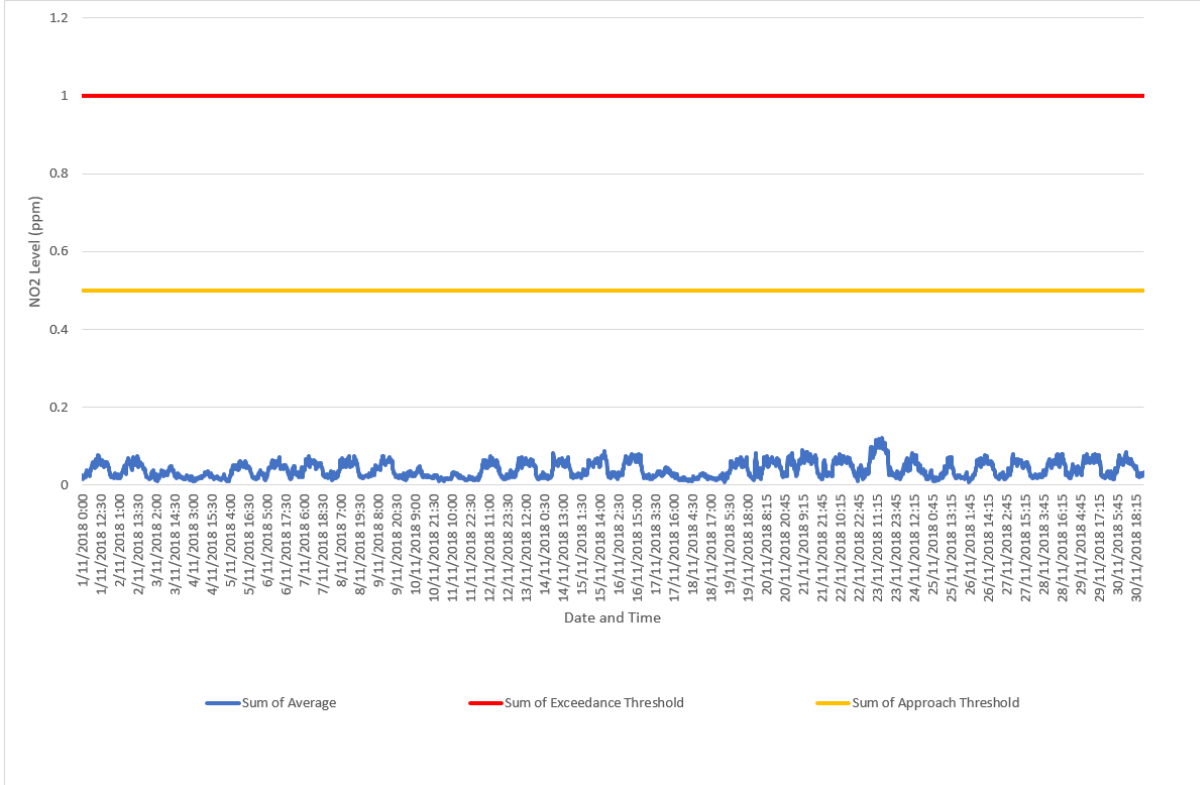


S502: Not powered during early November. Corrective maintenance attempted during November shutdown occurred. Unit removed for further testing.
 S504: Sensor displaying an erratic reading. Corrective maintenance occurred during November shutdown.
 S506: Sensor displaying an erratic reading. Corrective maintenance occurred during November shutdown.
 S801: Not powered during early November. Corrective maintenance attempted during November shutdown occurred. Unit removed for further testing.

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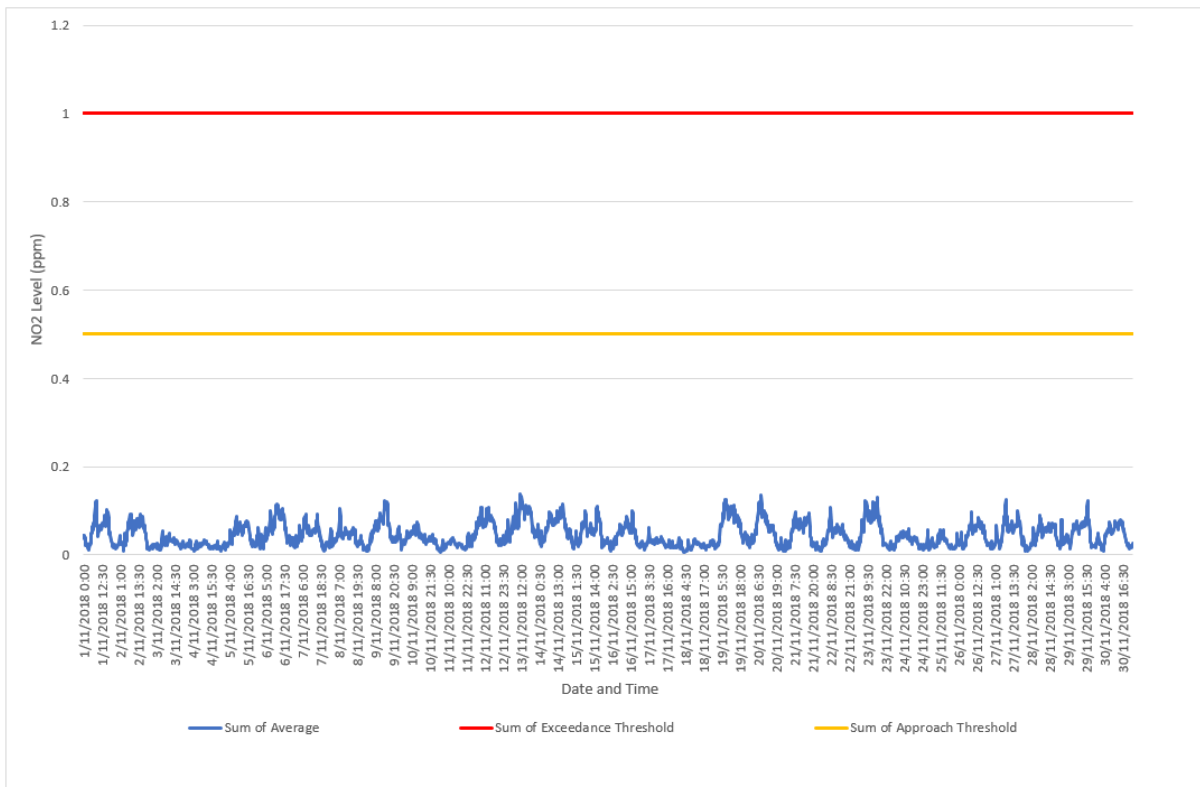
Nitrogen dioxide

Figure 5: In-tunnel Nitrogen Dioxide (NO₂) Concentrations - Northbound (15 minute averaged data)



No comments

Figure 6: In-tunnel Nitrogen Dioxide (NO₂) Concentrations - Southbound (15 minute averaged data)



No comments