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COMMUNICATE INNOVATE COLLABORATE FACILITATE NEGOTIATE MEDIATE EDUCATE

M8 Air Quality Community Consultative Committee (AQCCC) 1

Meeting: M8 Air Quality Community Consultative Committee (AQCCC) 1

Date: Tuesday 9 March 2021

Time: 6pm-7pm

Location: Meeting held via Zoom

Attendees: Independent Chair (IC)
Associate
WestConnex | Transurban
Fulton Hogan Egis O&M Contractor
Environmental Protection Authority (EPA)
Inner West Council
Canterbury Bankstown Council
Community Representatives

Stephen Lancken
Lynette Edwards

Apologies: Georges River Council
Bayside Council

Meeting Notes

Key Matters Discussed and Presented

1. Welcome and Introductions

1.1. No Questions.

2. Question on notice from Prior Meeting: Item 7.1 – FHEOM, answered in presentation (attached)

2.1. What does “23-hour average rounding due to midnight” mean?

2.1.1. The air quality goal is specified as a “24-hour average” goal of 24 micrograms per cubic metre for Particulate Matter (PM) 2.5 and for 50 micrograms per cubic metre for PM10

2.1.2. Exceedances are required to be published daily at midnight. The last hour of the day is not recorded as that hour is used to calculate the 23 hours of data from that day.

Exceedances are reported on raw data at the time of the report. That means that when the exceedance was first reported that the report was based on the previous 23 hours only.

2.1.3. The data is published generally 15 days into the following month. This is a full report which is adjusted to report the accurate 24-hour average of the readings. The raw data is verified by our appointed specialists, EMM, who verify the data and calculate the raw data into an accurate monthly reading for publishing.

2.2. Why does the system not roll the hour’s data between 11pm and 12pm forward into the following day and then recalculate the full 24 hours data?

2.2.1. **Taken on notice.**

2.3. Are the initial exceedance reports based on unvalidated data? If so, are the exceedances inaccurate?

2.3.1. Yes, the initial reports are based on unvalidated data. This simply means it is raw data. All exceedances are reported on unvalidated data by EMM. This means some exceedances recorded in the daily raw data could be due to errors in readings or equipment issues, which is why a more accurate monthly report is released by EcoTech.

2.3.2. The Condition of Approval state that all exceedances must be reported immediately or within 24 hours, depending on the exceedance.

2.3.3. EcoTech notify exceedances in validated reports which are produced 15 days into the following month. In validating the reporting EcoTech will take into account errors in instruments and other conditions at the time. The data is certified and during this process. EcoTech have the authority and qualification under a NATA certificate to modify data following certification.

2.3.4.The validation process can result in modification of an hourly average.

2.3.5.The contributing factors to the exceedance are outlined in the Ecotech report to The National Association of Testing Authorities (NATA) standards.

3. Community Update

3.1. M8 St Peters Green Link - Who maintains the mound and park at St Peters? The area has weeds growing around the mound and in the park.

3.1.1.The mound is a noise mound and is maintained by WestConnex|Transurban. The mound suffered soil slippage during a heavy rain last year. The soil on the mound needs to be re-established.

3.2. Council has received a few requests for facilities such as toilets and bins around Linear Park, to whom should this be referred?

3.2.1.This is not strictly within scope of the AQCCC. The community member who asked the question was referred to those persons who can answer this question so that it can be dealt with outside the meeting.

3.3. After all construction work has been completed who is responsible for maintenance of the park and infrastructure that is in Linear Park?

3.3.1. The area is divided into several jurisdictions between Westconnex, Transport for NSW and local Council. The Public Art is being delivered and managed by WestConnex | Transurban. Any requests for new facilities or public amenities (such as bathrooms and bins) is a Council issue.

3.3.2.The request for a plan or explanation of who is responsible for each area or asset was taken on notice to be dealt with before the next meeting.

3.3.3.For questions relating to responsibility for land maintenance or facilities the community can make enquiries by emailing info@westconnex.com.au

3.4. Was the in-tunnel complaint referred to in the presentation due to reduced visibility in the tunnel?

3.4.1.An overheating vehicle had stopped in the breakdown lane and there was smoke visible from the vehicle. A concerned motorist reported the incident. There was not enough smoke to impact visibility in the tunnel.

4. Operations and Maintenance update by FHEOM

4.1. What is the lifespan of the fans in the tunnel?

4.1.1.The fans are reasonably easy to maintain, motors can be maintained and replaced in situ. Redundancy is built into the tunnel so if one fan is not working the other fans can accommodate the ventilation needs of the tunnel.

4.1.2. Additionally, there are four (4) spare jet fans in storage and if necessary, the fans can be removed from the building and sent for repairs in a factory.

4.1.3. The Axial fans have an operational life of approximately 25 years.

4.2. What kind of incidents have FHEOM attended in the tunnel?

4.2.1. Generally, the incidents are breakdowns or motorists running out of fuel. Collisions and multi-vehicle incidents are rare.

4.2.2. When an incident occurs an “Advanced Vehicle Identification System” (AVIS) camera locks in on a parked or stationary vehicle and alerts incident response drivers and tow trucks to respond as required.

5. Air Quality Reporting

5.1. Do the Ambient Air Quality Audit, the Relative Accuracy Test Audit and In-Tunnel and External Air Quality Audit all relate to in-tunnel reports?

5.1.1. The reports cover in-tunnel air quality reporting, air quality reporting in the ventilation facilities and ambient air reporting.

6. Other business

6.1. No further questions.

6.2. Next meeting is 1 June 2021.

Meeting closed at 6:55pm

These minutes were accepted 29 March 2021 by



Stephen Lancken

Independent Chair

ACTIONS ARISING

Item	Actions Arising	Timeframe	Responsibility / Status Update	Response
2.2	Why does the system not roll the hour's data between 11pm and 12pm forward into the following day and then calculate and reprocess the full 24 hours data?		WestConnex Transurban	Taken on notice
3.3	After all construction work has been completed who is responsible for maintenance of the park and infrastructure that is in Linear Park?		WestConnex Transurban	Information to be provided prior to the next AQCCC

M8 AQCCC

TUESDAY 9 March 2021 – MEETING 1



Meeting Agenda

Item No.	Discussion	Time	Responsibility
1.	Welcome and introductions	5 mins	Independent Chair
2.	Project and Community Update	15 mins	Desiree Mousavi (WestConnex)
3.	Operations and Maintenance Update	15 mins	Justin Hazelbrook (FHE)
4.	Air Quality Reporting	25 mins	Kris Hinks (WestConnex)
5.	Other business & Questions on Notice	5 mins	Independent Chair

Questions on notice from prior meeting



- Item 7.1 - Regarding PM_{2.5} Exceedance Report for July 10, why are daily figures ‘revised following analysis of raw data’ as opposed to being correctly calculated to begin with.
 - Linkt website operates an hour in arrears and calculates the 24-hour average for PM₁₀ & PM_{2.5} from individual hourly averages.
 - The data averaging period is from midnight through to 11pm (12:00 – 23:00) whilst in the above-goal report, averages are calculated from 12:00 – 12:00.

Operation & Maintenance Update

Previous Questions

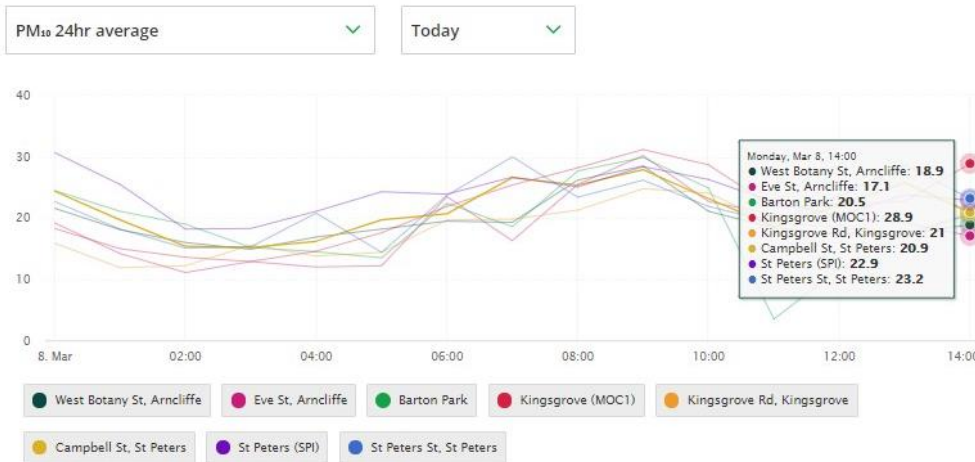
- Item 7.1 - Regarding PM2.5 Exceedance Report for July 10, why are daily figures ‘revised following analysis of raw data’ as opposed to being correctly calculated to begin with.

Current snapshot at 3pm

Monday, March 8, 2021 (AEDT)

Table gets updated 5 minutes past every hour

Air quality over time



- Item 7.2 – Regarding the ambient July report why are unrevised figures published when they have yet to be reviewed and changed.

- Condition E11 of the Infrastructure Approval states:

'The establishment and operation of the stations is to be undertaken in accordance with recognised Australian standards and undertaken by an organisation accredited by NATA for this purpose and approved by the Secretary in consultation with the EPA and the AQCCC. The quality of the monitoring results must be assured through a NATA accredited process prior to the data being considered as a basis for compliance/auditing purposes.'

- Validated data is provided by Ecotech on the 15th of the following month, this doesn't always align with the reporting requirements.
- Reports are prepared by the approved independent, Ronan Kellaghan from EMM.

Operation & Maintenance Update

Previous Questions

- 10th of July Ambient Above-Goal Notification

Notification of Ambient above-goal reading WestConnex M8	
<i>To be notified immediately to Project Company and TNSW. Project Company is to notify DPE, EPA and NSW Health within 24 hours.</i>	
Date	10 July 2020
Time (start and finish)	0000hrs to 0000hrs
Relevant location	<input type="checkbox"/> West Botany Street <input type="checkbox"/> Kingsgrove Road <input checked="" type="checkbox"/> Eve Street <input checked="" type="checkbox"/> Campbell Street <input checked="" type="checkbox"/> Barton Park <input checked="" type="checkbox"/> St Peters (SPI) <input type="checkbox"/> Kingsgrove (MOC1) <input checked="" type="checkbox"/> St Peters Street
Relevant goal	<input type="checkbox"/> CO – 8 hour rolling average of 9.0 ppm <input type="checkbox"/> NO ₂ – One hour average of 0.12 ppm (245 µg/m ³) <input type="checkbox"/> PM ₁₀ – 24 hour average of 50 µg/m ³ <input checked="" type="checkbox"/> PM _{2.5} – 24 hour average of 25 µg/m ³ <input type="checkbox"/> PM ₁₀ – Annual average of 25 µg/m ³ <input type="checkbox"/> PM _{2.5} – Annual average of 8 µg/m ³
Above-goal reading Detail the above-goal reading that was received	PM_{2.5} Eve Street: 26.2 µg/m ³ Barton Park: 25.4 µg/m ³ Campbell Street: 25.9 µg/m ³ St Peters (SPI): 27.0 µg/m ³ St Peters Street: 26.1 µg/m ³
Duration Detail the duration of the above-goal reading or event	24hrs
Nature of event Detail nature of the event that contributed to the above-goal reading	The elevated PM _{2.5} concentrations across the M8 ambient monitoring stations are consistent with the Sydney East DPI&E ambient network. At this stage, the above-goal PM _{2.5} readings at Eve Street, Barton Park, Campbell Street, SPI and St Peters Street can be attributed to an external event affecting the entire Greater Sydney basin.
Was the data valid? If unknown at this stage, please indicate. Refer section 5.2.1 of this Protocol.	Data is yet to be validated.
Was there an emergency? Refer section 3.1 of this Protocol. If this is unknown at this stage, please indicate.	No.
Measures employed Detail measures employed to minimise the concentration levels	All ventilation outlet and in-tunnel monitoring results for the 10/07/2020 were below the limits specified.
Commitment to prepare and submit a Report on Above-Goal Reading A Report on Above-Goal Reading will be prepared for this notification. Please note that a Report is not required in the event of an emergency.	
Person responsible for notification	Name: Peter Redwin Position: Head of Operations and Maintenance Organisation: WestConnex Transurban

Operation & Maintenance Update


Previous Questions

- Ecotech Validated July Monthly Report Figures

M8 Project
 Report No: DAT16106
 Fulton Hogan Egis Operations & Maintenance



M8 Project
 Report No: DAT16106
 Fulton Hogan Egis Operations & Maintenance



M8 Project
 Report No: DAT16106
 Fulton Hogan Egis Operations & Maintenance



Table 16: M8 Project Arncliffe 2 (Eve St)
 Exceedences Recorded for 6th July 2020 – 31st July 2020

Parameter	Time Period	Value of Exceedence	Date of Exceedence
NO ₂ (ppm)	1 hour	-	-
CO (ppm)	8-hour rolling	-	-
PM ₁₀ (µg/m ³)	24-hour	-	-
	Annual ^P	-	-
PM _{2.5} (µg/m ³)	24-hour	26.2	10/07/2020
	Annual ^F	-	-

Table 20: M8 Project St Peters 1 (Campbell St)
 Exceedences Recorded for 6th July 2020 – 31st July 2020

Parameter	Time Period	Value of Exceedence	Date of Exceedence
NO ₂ (ppm)	1 hour	-	-
CO (ppm)	8-hour rolling	-	-
PM ₁₀ (µg/m ³)	24-hour	-	-
	Annual ^{H1}	-	-
PM _{2.5} (µg/m ³)	24-hour	25.9	10/07/2020
		26.2	24/07/2020
		28.2	25/07/2020
	Annual ^{H2}	-	-

Table 17: M8 Project Barton Park
 Exceedences Recorded for 6th July 2020 – 31st July 2020

Parameter	Time Period	Value of Exceedence	Date of Exceedence
NO ₂ (ppm)	1 hour	-	-
CO (ppm)	8-hour rolling	-	-
PM ₁₀ (µg/m ³)	24-hour	-	-
	Annual ^P	-	-
PM _{2.5} (µg/m ³)	24-hour	25.4	10/07/2020
	Annual ^F	-	-

- Ecotech Validated July Monthly Report Figures

M8 Project
 Report No: DAT16106
 Fulton Hogan Egis Operations & Maintenance




Table 21: M8 Project St Peters 2 (SPI)
 Exceedences Recorded for 6th July 2020 – 31st July 2020

Parameter	Time Period	Value of Exceedence	Date of Exceedence
NO ₂ (ppm)	1 hour	-	-
CO (ppm)	8-hour rolling	-	-
PM ₁₀ (µg/m ³)	24-hour	-	-
	Annual ¹³	-	-
PM _{2.5} (µg/m ³)	24-hour	27.0	10/07/2020
		25.9	24/07/2020
		27.0	25/07/2020
	Annual ¹²	-	-

M8 Project
 Report No: DAT16106
 Fulton Hogan Egis Operations & Maintenance



Table 22: M8 Project St Peters 3 (St Peters St)
 Exceedences Recorded for 6th July 2020 – 31st July 2020

Parameter	Time Period	Value of Exceedence	Date of Exceedence
NO ₂ (ppm)	1 hour	-	-
CO (ppm)	8-hour rolling	-	-
PM ₁₀ (µg/m ³)	24-hour	-	-
	Annual ¹³	-	-
PM _{2.5} (µg/m ³)	24-hour	26.1	10/07/2020
		28.1	25/07/2020
	Annual ¹⁴	-	-

Community Update



WestConnex social media channels

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www.facebook.com/WestConnex



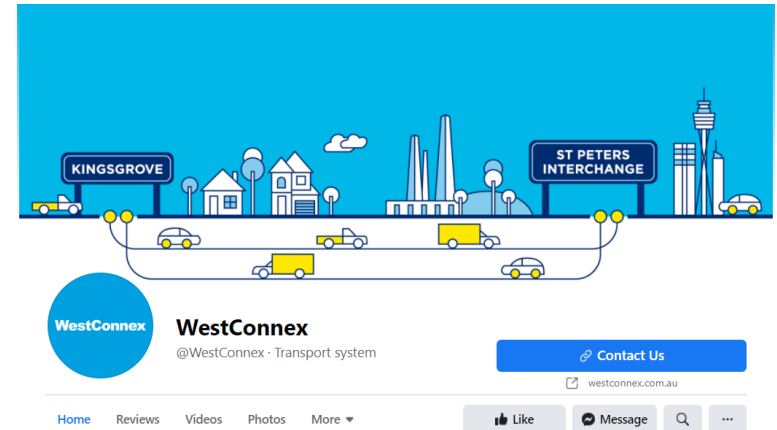
www.twitter.com/westconnex



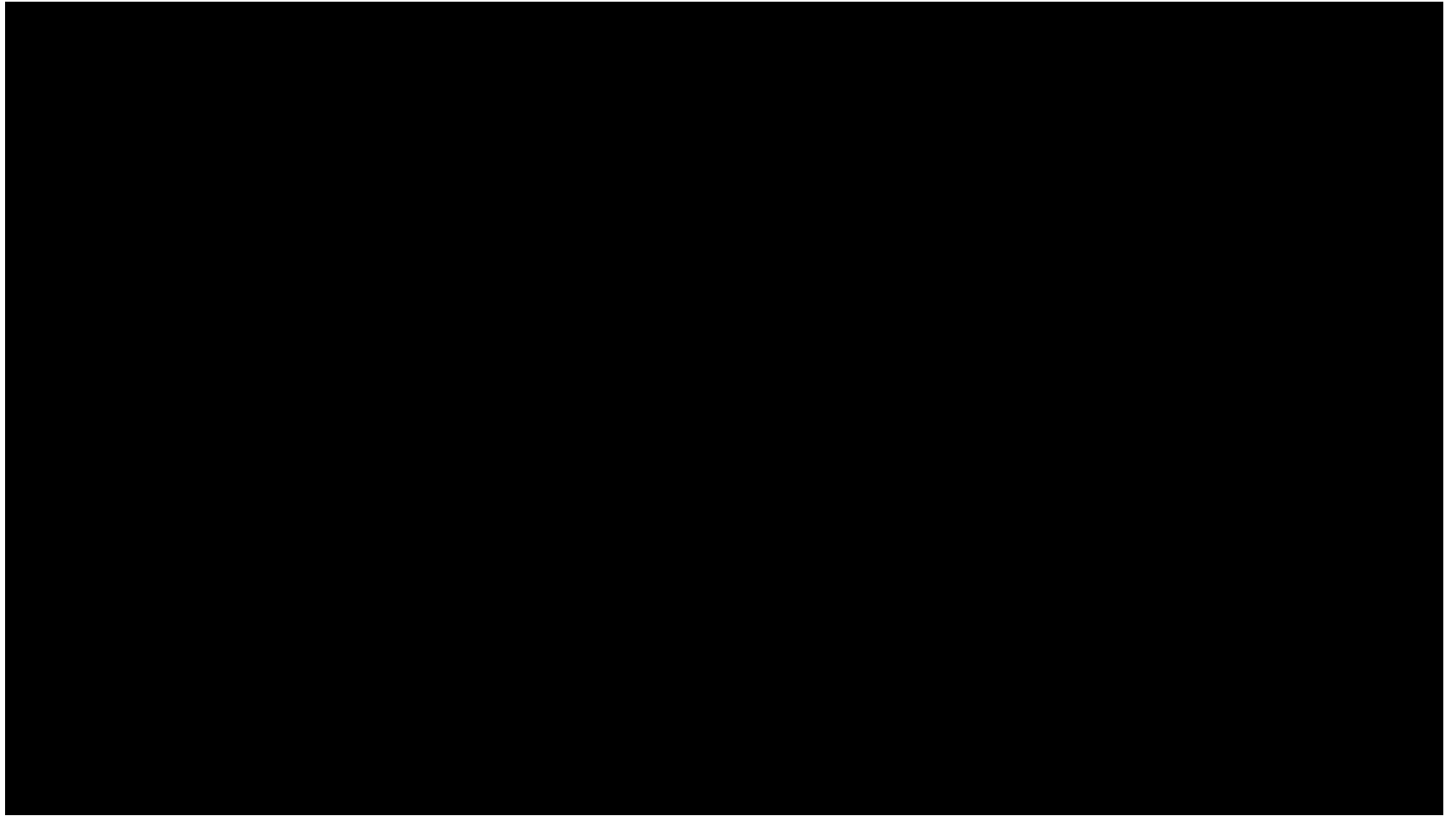
www.youtube.com/channel/UCVESYz2f3vCs2RryUkJLVQw



www.linkedin.com/showcase/westconnex/



M8 St Peters Green Link

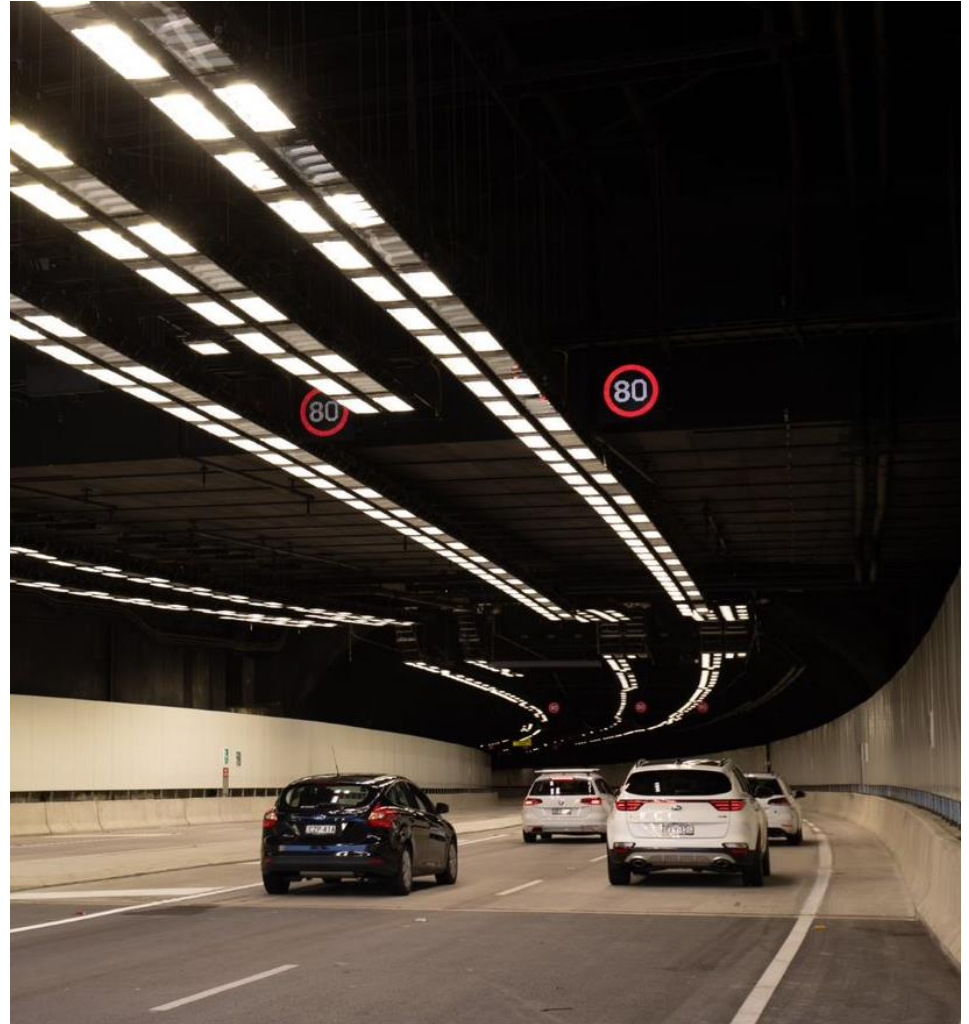


Public Art Update



Community issues

- One Community complaint has been received regarding in-tunnel air quality in the first quarter of 2021.
- This was related to a vehicle which overheated and had stopped in the breakdown bay in the westbound carriage on 5 March 2020.
- The incident was cleared by incident response crew and the smoke dispersed.



Operation and Maintenance Update



Operation & Maintenance Update

Incident Response

- 362 Incidents responded to
- Non - Peak Response Time
 - 7.3 minutes
- Peak Response Time
 - 7.1 minutes



Operation & Maintenance Update

Maintenance



Operation & Maintenance Update

Maintenance



Operation & Maintenance Update

Infrastructure Approval SSI-6788

- Audits
 - E12 – Ambient Air Quality Audit
 - E26 – Relative Accuracy Test Audit
 - E27 – In-tunnel & External Air Quality Audit



Air quality reporting

Kris Hincks



Air quality reporting

- Exceedances occurring since Last Meeting

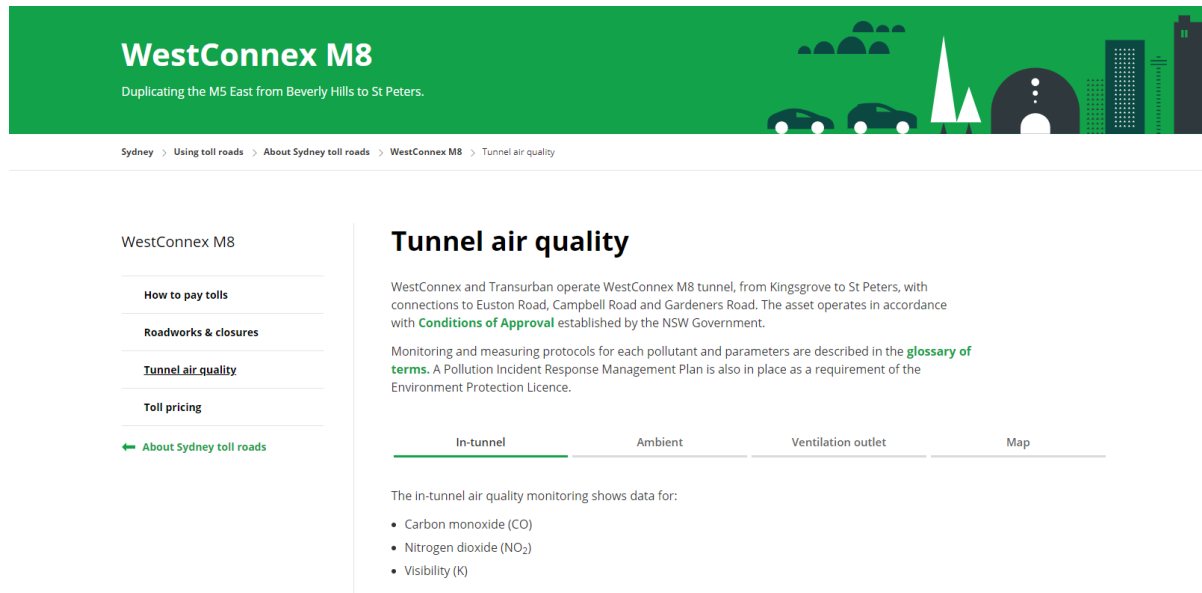
- **No Exceedances were recorded during the period between December 2020 and March 2021**

Air quality Real Time Reporting

- [Linkt Website](#)

Linkt Website

<https://www.linkt.com.au/sydney/using-toll-roads/about-sydney-toll-roads/westconnex-m8/tunnel-air-quality>



The screenshot shows the 'WestConnex M8' page on the Linkt website. The header features the title 'WestConnex M8' and the subtitle 'Duplicating the M5 East from Beverly Hills to St Peters.' Below this is a navigation breadcrumb: 'Sydney > Using toll roads > About Sydney toll roads > WestConnex M8 > Tunnel air quality'. The main content area is divided into two columns. The left column contains a sidebar with links: 'How to pay tolls', 'Roadworks & closures', 'Tunnel air quality' (highlighted), 'Toll pricing', and 'About Sydney toll roads'. The right column is titled 'Tunnel air quality' and contains the following text: 'WestConnex and Transurban operate WestConnex M8 tunnel, from Kingsgrove to St Peters, with connections to Euston Road, Campbell Road and Gardeners Road. The asset operates in accordance with **Conditions of Approval** established by the NSW Government. Monitoring and measuring protocols for each pollutant and parameters are described in the **glossary of terms**. A Pollution Incident Response Management Plan is also in place as a requirement of the Environment Protection Licence.' Below the text is a horizontal menu with four options: 'In-tunnel' (selected), 'Ambient', 'Ventilation outlet', and 'Map'. Under the 'In-tunnel' option, it states: 'The in-tunnel air quality monitoring shows data for:' followed by a bulleted list: 'Carbon monoxide (CO)', 'Nitrogen dioxide (NO₂)', and 'Visibility (K)'.

Other Business

