



# Ventia – EastLink Tunnel

## Ventilation Stack Air Quality Monitoring Validated Data Report

01 January 2026 to 31 March 2026

Ref: DR. 2026Q1.ETL

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Report prepared by: Tim Allfrey

## Document Control

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Format	Recipient	Details
PDF	George Vasiliadis	GVasiliadis@connecteast.com.au
PDF	Robbie Kristenson	kristenson@connecteast.com.au

Prepared by

Tim Allfrey  
29 April 2026

Approved by

Bruno Nourdine  
29 April 2026

## Norditech Accreditations

We operate a fully compliant NATA-approved lab, and our engineers are factory-trained in the repair and maintenance of most types of gas analysers on the market, including circuit board level repairs. Our instrument technicians' training is constantly updated to stay current with the latest gas analyser market trends.



Accreditation number: 19660

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## Glossary

The following terms and abbreviations are used in this report

<b>Abbreviation</b>	<b>Meaning</b>
°C	Degrees Celsius
%	Percent
CO	Carbon monoxide
eq.	Equivalents
kPa	kiloPascal
mg/m <sup>3</sup>	Milligrams per cubic meter at dry, standard temperature and pressure (0°C and 101.3 kPa)
NO	Nitric oxide
NO <sub>2</sub>	Nitrogen dioxide
NO <sub>x</sub>	Oxides of nitrogen
RH	Relative Humidity
PM10	Particles size ≤10µm
VOC	Volatile organic compounds
VSO	Ventilation Stack Outlet

## 1. Executive Summary

EastLink is a 39 km motorway running between Nunawading and Frankston, linking the Eastern, Monash Frankston and Peninsula Link freeways. Two 1.6 km tunnels pass under the Mullum Mullum Valley, with a ventilation stack at the end of each tunnel as an exit point for tunnel ventilation.

Two ventilation stacks provide ventilation for the tunnel, one at the western end of the tunnel at Discharge Point 1 (DP1), and one at the eastern end of the tunnel at Discharge Point 2 (DP2).

This report presents the monthly validated stack data for January 2026 to March 2026 to Ventia Pty Ltd for the EastLink Tunnel.

## 2. Introduction

### 2.1 Project Background

Norditech were contracted by Ventia Pty Ltd in August 2021 to provide continuous stack air quality monitoring and reporting services for the EastLink Tunnel. Ventia Pty Ltd are responsible for the operation and maintenance of the motorway.

Norditech is a NATA accredited organization (Accreditation Number: 19660)

Addresses of relevant parties:

**Norditech Pty Ltd**  
2/87 Station Rd  
Seven Hills NSW 2147

**Ventia Pty Ltd**  
2 Hillcrest Avenue  
Ringwood VIC 3134

This report presents the validated ventilation stack data for .

- Describe air quality measurements.
- Reports any readings above the Eastlink licence Limits.
- Compare monitoring results.
- It has been quality assured.

## 2.2 Outlet Monitor Locations

The locations of the EastLink Tunnel Western and Eastern ventilation stacks are detailed in Table 1 and **Error! Reference source not found.** below.

Location	Latitude	Longitude
Western Ventilation Stack	-37.801229°	145.196092°
Eastern Ventilation Stack	-37.808885°	145.212012°

Table 1. Outlet Coordinates

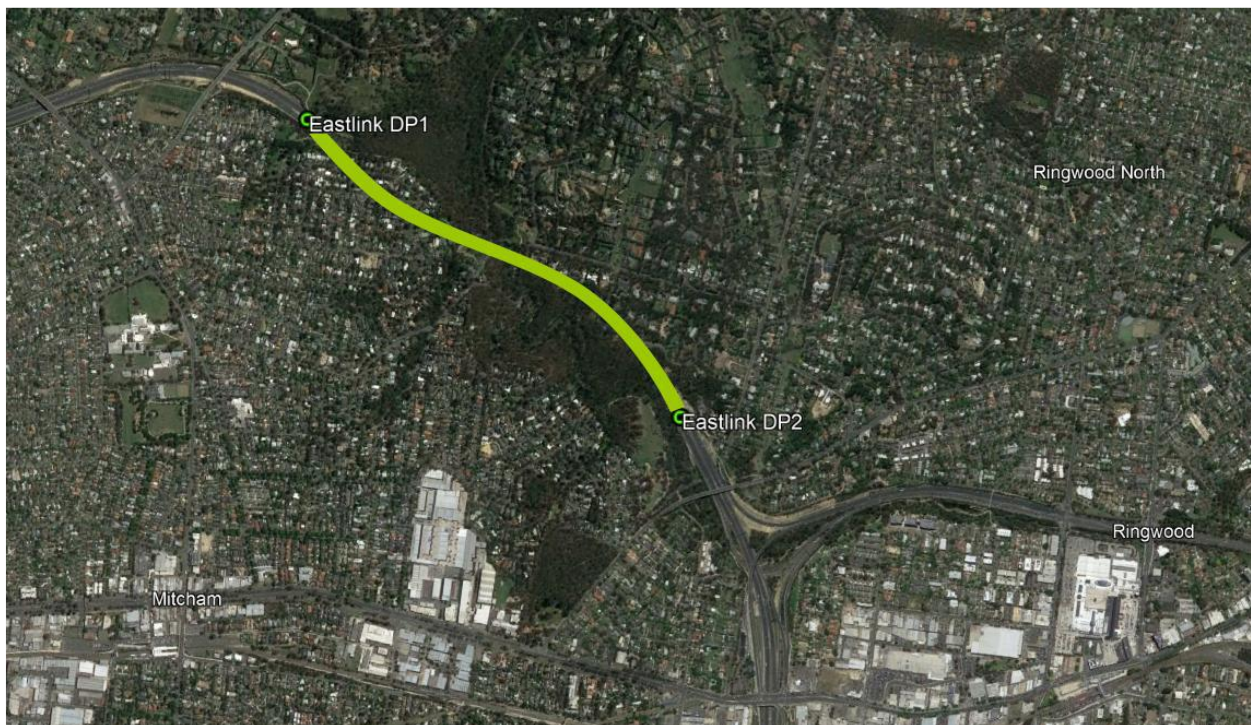


Figure 1.Outlet monitoring location coordinates

### 3. Air Quality Limits

Air quality limits are provided in Condition LI\_DA1.13 of the Environment Protection Authority (Victoria) Licence No 2043 for the EastLink Tunnel. The air quality limits for 1-hour mass rates are shown in Table below.

Pollutant / Parameter	Type of Measurement	Concentration Limit	Unit
NO <sub>2</sub>	Average – 1 hour block	3.98	kg/h
CO	Average – 1 hour block	112	kg/h
PM <sub>2.5</sub>	Average – 1 hour block	2.4	kg/h
PM <sub>10</sub>	Average – 1 hour block	2.6	kg/h

Table 2. Ventilation Outlet Air Quality Limits

The procedure for reporting particulate matter results from the TEOMs and assessment of licence compliance is detailed in the EastLink Particulate Matter Protocol (PMP) dated 17/06/2013. The PMP requires validated uncorrected TEOM one hour clock average data to be compared to the following TEOM mass rate compliance limits for both DP1 and DP2.

- PM2.5: 2.0 kg/h
- PM10: 2.0 kg/h

#### 3.1 Standards Compliance

Norditech’s NATA Accreditation does not cover the following parameters monitored at the EastLink Tunnel ventilation stack air quality monitoring stations.

- Measurement of Stack Flow.
- AS/NZS 3580.9.8 refers specifically to the monitoring of PM10.

## 4. Explanation of Monitoring

### 4.1 Methodology

In the tunnel air is discharged via two ventilation stacks – one located at the Western end of the tunnel (DP1), and one located at the Eastern end (DP2). For each stack, monitoring as per the requirements of EPA Licence 2043 is undertaken.

Gaseous parameters are sampled by an extractive sampling system. Oxides of nitrogen are measured using chemiluminescence. Carbon monoxide is measured using non-dispersive infra-red absorption.

Particulates PM10 and PM2.5 are measured using tapered element oscillating microbalances.

Stack gas velocity is measured using an optical flow sensor.

Monthly routine maintenance is undertaken by Norditech. Maintenance is performed as per the relevant Australian Standard or in house method. Maintenance cycles generally involve 1, 3, 6 and 12 monthly scheduled items.

The following instrumentation and methods are used in data collection:

EastLink Ventilation Stack Measurement Methods		
Pollutant / Parameter	Method	Instrument
PM <sub>10</sub>	AS/NZS 3580.9.8	Rupprecht & Patashnick TEOM
	In house method TP.005	
	AS 4323.1	
PM <sub>2.5</sub>	In house method TP.026	Rupprecht & Patashnick TEOM
	AS 4323.1	
NO	In house method TP.001	Thermo Scientific 42i
NO <sub>2</sub>	In house method TP.001	Thermo Scientific 42i
NO <sub>x</sub>	In house method TP.001	Thermo Scientific 42i
CO	In house method TP.003	Thermo Scientific 48i
Temperature	In house method TP.012	PT100
Stack Velocity	USEAP (CFR 40) Part 75	OSI OFS2000

Table 3. Measurement methods and instrumentation

## 5. Data Validation and Reporting

### 5.1 Data Collection

At each Air Quality Monitoring Station, data is logged to an EnviDAS data logger at 1 minute average intervals. Each 1-minute average is calculated from data sampled at 10 second intervals.

Data is transferred automatically to Norditech's data collection software via a TCP/IP link over 4G cellular network, at a frequency of not less than 1-hour. Two datasets are maintained by Norditech, one for data validation and reporting purposes, and a non-validated data set for reference purposes.

### 5.2 Data Validation

Data validation is performed as per Norditech's data validation procedure TP.022. The data validation process identifies any data that is deemed not to be valid. This data is flagged as invalid in the database and is removed from the reported data.

Data may be deemed invalid for several reasons, including but not limited to:

- Instrument fault.
- Instrument calibration out of tolerance.
- Maintenance activities.

For further details and explanations of reasons for invalidating data, please refer to Section 12 – Data Validation Explanations.

Initial visual inspection of data is performed by inspection of graphs to identify any anomalies in the data set.

Site visit logs and maintenance and calibration certificates are cross referenced to the data set and any data affected by maintenance activities are flagged.

Instrument drift and calibration tolerances are checked, and data flagged in the database as necessary as per NATA compliance requirements.

### 5.3 Reporting and Calculations

All calculations and averages are calculated from 1 minute average base data and are reported as 'end time' when the averaging periods of eight hours or less. IE the average data for 01:00 is the data from 00:00 through to 01:00. One-hour averages are calculated based on a clock hour. One day averages are calculated based on calendar days. All averages are based on a minimum of 75% valid readings within the averaging period.

All data is reported at Australian Eastern Standard Time.

Validated data for Quarter 1 Month 1 is presented in the Excel workbook named “202601 EastLink Q1M1 Validated data.xlsx”

The workbooks each consist of the following sheets:

- Sheet 1: Cover
- Sheet 2: M1 Data kg1h – Hourly data in kg/h
- Sheet 3: M1 Data g5m – 5-minute data in grams/5m
- Sheet 4: M1 Data mgm3 1h – 1-hour data in mg/m<sup>3</sup>
- Sheet 5: M1 Data mgm3 5m – 5-minute data in mg/m<sup>3</sup>
- Sheet 6: Eastern Validation Data
- Sheet 7: Western Validation Data

Validated data for Quarter 1 Month 2 is presented in the Excel workbook named “202602 EastLink Q1M2 Validated data.xlsx”

The workbooks each consist of the following sheets:

- Sheet 1: Cover
- Sheet 2: M2 Data kg1h – Hourly data in kg/h
- Sheet 3: M2 Data g5m – 5-minute data in grams/5m
- Sheet 4: M2 Data mgm3 1h – 1-hour data in mg/m<sup>3</sup>
- Sheet 5: M2 Data mgm3 5m – 5-minute data in mg/m<sup>3</sup>
- Sheet 6: Eastern Validation Data
- Sheet 7: Western Validation Data

Validated data for Quarter 1 Month 3 is presented in the Excel workbook named “202603 EastLink Q1M3 Validated data.xlsx”

The workbook consists of the following sheets:

- Sheet 1: Cover
- Sheet 2: M3 Data kg1h – Hourly data in kg/h
- Sheet 3: M3 Data g5m – 5-minute data in grams/5m
- Sheet 4: M3 Data mgm3 1h – 1-hour data in mg/m<sup>3</sup>
- Sheet 5: M3 Data mgm3 5m – 5-minute data in mg/m<sup>3</sup>
- Sheet 6: Eastern Validation Data
- Sheet 7: Western Validation Data

### 5.3.1 Data Availability

Data availability refers to the amount of available data for the reporting period. Data availability is calculated using the following formula:

$$\text{Data availability \%} = \frac{\text{sum of available data points}}{\text{sum of possible data points}} * 100$$

Where:

- Sum of available data points is the number of validated 1-hour average data points for the reporting period
- Sum of possible data points is the number of theoretically available data points for the reporting period

### 5.3.2 Unit Conversions

Stack velocity readings are converted to flow rate using the following stack areas:

- Western Stack area 35 m<sup>2</sup>
- Eastern Stack area 35 m<sup>2</sup>

Pollutant and flow data are reported at actual conditions.

## 6. Calibration and Maintenance

### 6.1 Units and Uncertainties

EastLink Ventilation Stack Instrument Units and Uncertainties				
Parameter	Units	Resolution	Uncertainty	Measurement Range
CO	mg/m <sup>3</sup>	0.01	± 8.2% of reading at 62.5mg/m <sup>3</sup> (k=1.96)	0 to 200
NO	mg/m <sup>3</sup>	0.01	± 8.1% of reading for range 25.7 – 32.8mg/m <sup>3</sup> (k=1.96)	0 to 150
NO <sub>2</sub>	mg/m <sup>3</sup>	0.01	± 8.5% of reading at 25.7mg/m <sup>3</sup> (k=1.96)	0 to 150
NO <sub>x</sub>	mg/m <sup>3</sup>	0.01	± 8.1% of reading for range 25.7 – 32.8mg/m <sup>3</sup> (k=1.96)	0 to 150
PM <sub>10</sub>	µg/m <sup>3</sup>	0.1	±5.0 µg/m <sup>3</sup> or 3.6% of reading, whichever is the greater. (k=1.96)	0 to 5000
PM <sub>2.5</sub>	µg/m <sup>3</sup>	0.1	±5.0 µg/m <sup>3</sup> or 3.6% of reading, whichever is the greater. (k=1.96)	0 to 5000
Temperature	°C	0.1	±2.0 °C <sup>1</sup>	-25 to 105
Stack Velocity	m/s	1	±0.1 m/s <sup>1</sup>	-40 to +40

Table 4. Measurement units and uncertainties

<sup>1</sup> Manufacturer’s stated accuracy

## 6.2 Automatic Instrument Calibration Checks

Table 5 below identifies the times at which the daily gaseous parameter automatic span and zero checks are performed.

This data is removed from the dataset, however, are not included in the data validation tables of data.

Location	Parameters	Daily Calibration Checks Times
Western (to 25/07/2024)	CO	00:00 - 00:34
	NO, NO <sub>2</sub>	01:00 - 01:44
Western (from 26/07/2024)	CO	01:00 - 01:44
	NO, NO <sub>2</sub>	
Eastern	CO	01:34 - 02:13
	NO, NO <sub>2</sub>	

Table 5. Daily Calibration Checks Times

## 6.3 Last Calibration and Maintenance Records

### 6.3.1 January 2026

EastLink Ventilation Stack Maintenance and Last Scheduled Calibration Dates – January 2026			
Western Ventilation Stack (Discharge Point 1)			
Sensor	Date of Last Scheduled Maintenance	Maintenance Type	Date of Last Scheduled Calibration
CO	13/01/2026	1 Monthly	13/03/2026
NO/NO <sub>2</sub>	13/01/2026	1 Monthly	13/03/2026
PM <sub>2.5</sub>	16/12/2025	6 Monthly	16/12/2025
PM <sub>10</sub>	16/12/2025	6 Monthly	16/12/2025
Temperature	16/12/2025	6 Monthly	16/12/2025
Stack Velocity	25/08/2025	12 Monthly	25/08/2025

Table 6. Last Scheduled Maintenance and Calibration Dates - Western Ventilation Stack (Discharge Point 1) – January

EastLink Ventilation Stack Maintenance and Last Scheduled Calibration Dates – January 2026			
East Ventilation Stack (Discharge Point 2)			
Sensor	Date of Last Scheduled Maintenance	Maintenance Type	Date of Last Scheduled Calibration
CO	13/01/2026	1 Monthly	13/01/2026
NO/NO <sub>2</sub>	13/01/2026	1 Monthly	13/01/2026
PM <sub>2.5</sub>	16/12/2025	6 Monthly	16/12/2025
PM <sub>10</sub>	16/12/2025	6 Monthly	16/12/2025
Temperature	16/12/2025	6 Monthly	16/12/2025
Stack Velocity	27/08/2025	12 Monthly	27/08/2025

Table 7. Last Scheduled Maintenance and Calibration Dates - East Ventilation Stack (Discharge Point 2) – January

### 6.3.2 February 2026

EastLink Ventilation Stack Maintenance and Last Scheduled Calibration Dates – February 2026			
Western Ventilation Stack (Discharge Point 1)			
Sensor	Date of Last Scheduled Maintenance	Maintenance Type	Date of Last Scheduled Calibration
CO	10/02/2026	1 Monthly	10/02/2026
NO/NO <sub>2</sub>	10/02/2026	1 Monthly	10/02/2026
PM <sub>2.5</sub>	16/12/2025	6 Monthly	16/12/2025
PM <sub>10</sub>	16/12/2025	6 Monthly	16/12/2025
Temperature	16/12/2025	6 Monthly	16/12/2025
Stack Velocity	25/08/2025	12 Monthly	25/08/2025

Table 8. Last Scheduled Maintenance and Calibration Dates - Western Ventilation Stack (Discharge Point 1) – February

EastLink Ventilation Stack Maintenance and Last Scheduled Calibration Dates – February 2026			
East Ventilation Stack (Discharge Point 2)			
Sensor	Date of Last Scheduled Maintenance	Maintenance Type	Date of Last Scheduled Calibration
CO	10/02/2026	1 Monthly	10/02/2026
NO/NO <sub>2</sub>	10/02/2026	1 Monthly	10/02/2026
PM <sub>2.5</sub>	16/12/2025	6 Monthly	16/12/2025
PM <sub>10</sub>	16/12/2025	6 Monthly	16/12/2025
Temperature	16/12/2025	6 Monthly	16/12/2025
Stack Velocity	27/08/2025	12 Monthly	27/08/2025

Table 9. Last Scheduled Maintenance and Calibration Dates - East Ventilation Stack (Discharge Point 2) -- February

### 6.3.3 March 2026

EastLink Ventilation Stack Maintenance and Last Scheduled Calibration Dates – March 2026			
Western Ventilation Stack (Discharge Point 1)			
Sensor	Date of Last Scheduled Maintenance	Maintenance Type	Date of Last Scheduled Calibration
CO	03/03/2026	3 Monthly	03/03/2026
NO/NO <sub>2</sub>	03/03/2026	3 Monthly	03/03/2026
PM <sub>2.5</sub>	03/03/2026	3 Monthly	03/03/2026
PM <sub>10</sub>	03/03/2026	3 Monthly	03/03/2026
Temperature	16/12/2025	6 Monthly	16/12/2025
Stack Velocity	25/08/2025	12 Monthly	25/08/2025

Table 10. Last Scheduled Maintenance and Calibration Dates - Western Ventilation Stack (Discharge Point 1) – March

EastLink Ventilation Stack Maintenance and Last Scheduled Calibration Dates – March 2026			
East Ventilation Stack (Discharge Point 2)			
Sensor	Date of Last Scheduled Maintenance	Maintenance Type	Date of Last Scheduled Calibration
CO	03/03/2026	3 Monthly	03/03/2026
NO/NO <sub>2</sub>	03/03/2026	3 Monthly	03/03/2026
PM <sub>2.5</sub>	03/03/2026	3 Monthly	03/03/2026
PM <sub>10</sub>	03/03/2026	3 Monthly	03/03/2026
Temperature	16/12/2025	6 Monthly	16/12/2025
Stack Velocity	27/08/2025	12 Monthly	27/08/2025

Table 11. Last Scheduled Maintenance and Calibration Dates - East Ventilation Stack (Discharge Point 2) -- March

## 7. Results

### 7.1 Exceedances

Instances of the ventilation stack pollutants exceeding the EPA Limits goals during the reporting period are presented in Table 12, Table 13, and Table 14 below. Maximum mass rates are provided for comparison to the limits.

There were nil exceedances of the prescribed limits during the reporting period.

EastLink Ventilation Stack Air Quality Limit Exceedances January 2026								
Location	Parameter	Time Period	Licence Limit	Units	Maximum Mass Rate	Number of exceedances	Value of Exceedance	Date and Time of exceedance
Western Ventilation Stack (Discharge Point 1)	NO <sub>2</sub>	1-hour	3.98	kg/h	0.32	-	-	-
	CO	1-hour	112	kg/h	3.97	-	-	-
	PM <sub>2.5</sub>	1-hour	2.4	kg/h	0.19	-	-	-
	PM <sub>10</sub>	1-hour	2.6	kg/h	0.46	-	-	-
Eastern Ventilation Stack (Discharge Point 2)	NO <sub>2</sub>	1-hour	3.98	kg/h	0.64	-	-	-
	CO	1-hour	112	kg/h	6.02	-	-	-
	PM <sub>2.5</sub>	1-hour	2.4	kg/h	0.16	-	-	-
	PM <sub>10</sub>	1-hour	2.6	kg/h	0.51	-	-	-

Table 12. January 2026 Exceedances of EPA Goals

EastLink Ventilation Stack Air Quality Limit Exceedances February 2026								
Location	Parameter	Time Period	Licence Limit	Units	Maximum Mass Rate	Number of exceedances	Value of Exceedance	Date and Time of exceedance
Western Ventilation Stack (Discharge Point 1)	NO <sub>2</sub>	1-hour	3.98	kg/h	0.44	-	-	-
	CO	1-hour	112	kg/h	3.60	-	-	-
	PM <sub>2.5</sub>	1-hour	2.4	kg/h	0.14	-	-	-
	PM <sub>10</sub>	1-hour	2.6	kg/h	0.59	-	-	-
Eastern Ventilation Stack (Discharge Point 2)	NO <sub>2</sub>	1-hour	3.98	kg/h	0.71	-	-	-
	CO	1-hour	112	kg/h	6.38	-	-	-
	PM <sub>2.5</sub>	1-hour	2.4	kg/h	0.24	-	-	-
	PM <sub>10</sub>	1-hour	2.6	kg/h	0.55	-	-	-

Table 13. February 2026 Exceedances of EPA Goals

EastLink Ventilation Stack Air Quality Limit Exceedances March 2026								
Location	Parameter	Time Period	Licence Limit	Units	Maximum Mass Rate	Number of exceedances	Value of Exceedance	Date and Time of exceedance
Western Ventilation Stack (Discharge Point 1)	NO <sub>2</sub>	1-hour	3.98	kg/h	0.34	-	-	-
	CO	1-hour	112	kg/h	2.94	-	-	-
	PM <sub>2.5</sub>	1-hour	2.4	kg/h	0.14	-	-	-
	PM <sub>10</sub>	1-hour	2.6	kg/h	0.33	-	-	-
Eastern Ventilation Stack (Discharge Point 2)	NO <sub>2</sub>	1-hour	3.98	kg/h	0.59	-	-	-
	CO	1-hour	112	kg/h	5.17	-	-	-
	PM <sub>2.5</sub>	1-hour	2.4	kg/h	0.41	-	-	-
	PM <sub>10</sub>	1-hour	2.6	kg/h	0.55	-	-	-

Table 14. March 2026 Exceedances of EPA Goals

## 7.2 Data Availability

Data availability for the ventilation stack outlet sensors is provided in the table below.

EastLink Ventilation Stack Data Availability January 2026								
Station	Parameter	NO	NO <sub>2</sub>	CO	PM <sub>2.5</sub>	PM <sub>10</sub>	Stack Velocity	Stack Temperature
Western	Data Availability	95.6%	95.6%	95.6%	97.4%	99.5%	100.0%	100.0%
	Collected Periods	711.0	711.0	711.0	725.0	740.0	744.0	744.0
	Available Periods	744.0	744.0	744.0	744.0	744.0	744.0	744.0
Eastern	Data Availability	95.6%	95.6%	95.6%	99.3%	99.6%	100.0%	100.0%
	Collected Periods	711.0	711.0	711.0	739.0	741.0	744.0	744.0
	Available Periods	744.0	744.0	744.0	744.0	744.0	744.0	744.0

Table 15. January 2026 Data Availability

EastLink Ventilation Stack Data Availability February 2026								
Station	Parameter	NO	NO <sub>2</sub>	CO	PM <sub>2.5</sub>	PM <sub>10</sub>	Stack Velocity	Stack Temperature
Western	Data Availability	95.1%	95.1%	95.1%	98.7%	98.7%	100.0%	100.0%
	Collected Periods	639.0	639.0	639.0	663.0	663.0	672.0	672.0
	Available Periods	672.0	672.0	672.0	672.0	672.0	672.0	672.0
Eastern	Data Availability	95.7%	95.7%	95.7%	98.5%	94.2%	100.0%	95.5%
	Collected Periods	643.0	643.0	643.0	662.0	633.0	672.0	642.0
	Available Periods	672.0	672.0	672.0	672.0	672.0	672.0	672.0

*Table 16. February 2026 Data Availability*

EastLink Ventilation Stack Data Availability March 2026								
Station	Parameter	NO	NO <sub>2</sub>	CO	PM <sub>2.5</sub>	PM <sub>10</sub>	Stack Velocity	Stack Temperature
Western	Data Availability	95.0%	95.0%	95.0%	89.7%	94.2%	100.0%	95.3%
	Collected Periods	707.0	707.0	707.0	667.0	701.0	744.0	709.0
	Available Periods	744.0	744.0	744.0	744.0	744.0	744.0	744.0
Eastern	Data Availability	95.6%	95.6%	95.6%	97.7%	97.8%	100.0%	100.0%
	Collected Periods	711.0	711.0	711.0	727.0	728.0	744.0	744.0
	Available Periods	744.0	744.0	744.0	744.0	744.0	744.0	744.0

*Table 17. March 2026 Data Availability*

Remarks: Data Availability is calculated with 1 hour average data

## 7.3 Tabulated Results

### 7.3.1 Statistical Summary of 1-hour Mass Rate Data Western and Eastern Ventilation Stacks

Table 18 presents 1-hour mass rate statistical data for the Western and Eastern ventilation stacks.

1-hour mass rates are calculated from 1 minute average data.

EastLink Ventilation Stack Summary January 2026					
Location	Parameter	1hr Average Maximum	1hr Average Minimum	Monthly Average	Monthly Total
Western Ventilation Stack	NO (kg/h)	2.77	0.00	0.46	329.50
	NO <sub>2</sub> (kg/h)	0.32	-0.00	0.06	45.32
	CO (kg/h)	3.97	0.00	1.00	708.47
	PM <sub>2.5</sub> (kg/h)	0.19	-0.00	0.02	17.99
	PM <sub>10</sub> (kg/h)	0.46	0.00	0.05	35.45
Eastern Ventilation Stack	NO (kg/h)	3.83	-0.00	0.58	415.56
	NO <sub>2</sub> (kg/h)	0.64	0.00	0.11	76.83
	CO (kg/h)	6.02	0.00	1.09	776.56
	PM <sub>2.5</sub> (kg/h)	0.16	0.00	0.03	21.86
	PM <sub>10</sub> (kg/h)	0.51	0.00	0.07	52.99

Table 18. January 2026 Summary Table

EastLink Ventilation Stack Summary February 2026					
Location	Parameter	1hr Average Maximum	1hr Average Minimum	Monthly Average	Monthly Total
Western Ventilation Stack	NO (kg/h)	3.18	0.00	0.65	415.82
	NO <sub>2</sub> (kg/h)	0.44	0.00	0.09	56.54
	CO (kg/h)	3.60	0.00	0.99	633.85
	PM <sub>2.5</sub> (kg/h)	0.14	-0.00	0.03	21.41
	PM <sub>10</sub> (kg/h)	0.59	-0.00	0.07	44.19
Eastern Ventilation Stack	NO (kg/h)	3.83	0.00	0.92	593.01
	NO <sub>2</sub> (kg/h)	0.71	0.00	0.15	94.57
	CO (kg/h)	6.38	0.00	1.33	854.74
	PM <sub>2.5</sub> (kg/h)	0.24	-0.00	0.03	21.73
	PM <sub>10</sub> (kg/h)	0.55	0.00	0.10	66.14

Table 19. February 2026 Summary Table

EastLink Ventilation Stack Summary March 2026					
Location	Parameter	1hr Average Maximum	1hr Average Minimum	Monthly Average	Monthly Total
Western Ventilation Stack	NO (kg/h)	2.57	0.00	0.57	402.48
	NO <sub>2</sub> (kg/h)	0.34	0.00	0.07	52.55
	CO (kg/h)	2.94	0.00	0.81	569.86
	PM <sub>2.5</sub> (kg/h)	0.14	-0.00	0.03	17.85
	PM <sub>10</sub> (kg/h)	0.33	0.00	0.05	36.00
Eastern Ventilation Stack	NO (kg/h)	3.95	0.00	0.80	568.59
	NO <sub>2</sub> (kg/h)	0.59	0.00	0.12	86.69
	CO (kg/h)	5.17	0.00	1.24	880.00
	PM <sub>2.5</sub> (kg/h)	0.41	-0.00	0.03	22.46
	PM <sub>10</sub> (kg/h)	0.55	0.00	0.09	62.01

Table 20. March 2026 Summary Table

EastLink Ventilation Stack Percentile Summary January 2026								
Location	Parameter	Maximum	99 <sup>th</sup> Percentile	98 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile
Western Ventilation Stack	NO (kg/h)	2.77	2.27	2.03	1.46	1.15	0.72	0.35
	NO <sub>2</sub> (kg/h)	0.32	0.27	0.23	0.18	0.15	0.11	0.05
	CO (kg/h)	3.97	3.28	2.87	2.58	2.20	1.64	1.07
	PM <sub>2.5</sub> (kg/h)	0.19	0.12	0.11	0.08	0.06	0.04	0.02
	PM <sub>10</sub> (kg/h)	0.46	0.29	0.24	0.14	0.11	0.07	0.04
Eastern Ventilation Stack	NO (kg/h)	3.83	2.94	2.61	2.19	1.71	0.87	0.37
	NO <sub>2</sub> (kg/h)	0.64	0.56	0.48	0.36	0.26	0.17	0.09
	CO (kg/h)	6.02	4.10	3.75	3.12	2.40	1.82	1.08
	PM <sub>2.5</sub> (kg/h)	0.16	0.13	0.12	0.10	0.08	0.05	0.02
	PM <sub>10</sub> (kg/h)	0.51	0.36	0.30	0.25	0.19	0.10	0.06

Table 21. January 2026 Percentile Summary of 1-hour mass rate pollutant data

EastLink Ventilation Stack Percentile Summary February 2026								
Location	Parameter	Maximum	99 <sup>th</sup> Percentile	98 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile
Western Ventilation Stack	NO (kg/h)	3.18	2.68	2.46	2.08	1.63	1.12	0.46
	NO <sub>2</sub> (kg/h)	0.44	0.32	0.30	0.25	0.19	0.15	0.08
	CO (kg/h)	3.60	3.03	2.86	2.47	2.13	1.62	1.10
	PM <sub>2.5</sub> (kg/h)	0.14	0.12	0.12	0.10	0.08	0.05	0.03
	PM <sub>10</sub> (kg/h)	0.59	0.36	0.30	0.22	0.15	0.10	0.05
Eastern Ventilation Stack	NO (kg/h)	3.83	3.38	3.11	2.86	2.53	1.73	0.52
	NO <sub>2</sub> (kg/h)	0.71	0.61	0.58	0.47	0.37	0.23	0.13
	CO (kg/h)	6.38	4.85	4.60	3.81	2.96	2.16	1.38
	PM <sub>2.5</sub> (kg/h)	0.24	0.13	0.12	0.10	0.08	0.06	0.02
	PM <sub>10</sub> (kg/h)	0.55	0.45	0.42	0.37	0.28	0.18	0.07

Table 22. February 2026 Percentile Summary of 1-hour mass rate pollutant data

EastLink Ventilation Stack Percentile Summary March 2026								
Location	Parameter	Maximum	99 <sup>th</sup> Percentile	98 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile
Western Ventilation Stack	NO (kg/h)	2.57	2.36	2.18	1.87	1.48	1.00	0.39
	NO <sub>2</sub> (kg/h)	0.34	0.28	0.26	0.22	0.17	0.13	0.07
	CO (kg/h)	2.94	2.35	2.27	2.04	1.79	1.33	0.93
	PM <sub>2.5</sub> (kg/h)	0.14	0.11	0.10	0.09	0.07	0.05	0.02
	PM <sub>10</sub> (kg/h)	0.33	0.26	0.23	0.16	0.12	0.08	0.04
Eastern Ventilation Stack	NO (kg/h)	3.95	2.97	2.78	2.49	2.22	1.53	0.47
	NO <sub>2</sub> (kg/h)	0.59	0.50	0.45	0.38	0.30	0.20	0.11
	CO (kg/h)	5.17	4.41	3.94	3.39	2.79	1.99	1.41
	PM <sub>2.5</sub> (kg/h)	0.41	0.12	0.11	0.10	0.09	0.06	0.02
	PM <sub>10</sub> (kg/h)	0.55	0.39	0.33	0.29	0.25	0.14	0.05

Table 23. March 2026 Percentile Summary of 1-hour mass rate pollutant data

## 7.4 Graphical Representations

### 7.4.1 Eastlink Ventilation Stack Outlet Monthly Charts

The following charts present ventilation stack outlet data for CO, NO<sub>x</sub>, VOC, PM10, Stack Temperature, Stack Pressure, Stack Velocity and Stack Moisture for Eastlink.

1-hour Averages are calculated from 1 minute average data.

### 7.4.2 January 2026

#### 7.4.2.1 January 2026 – Monthly 1-hour mass rate NO<sub>2</sub>

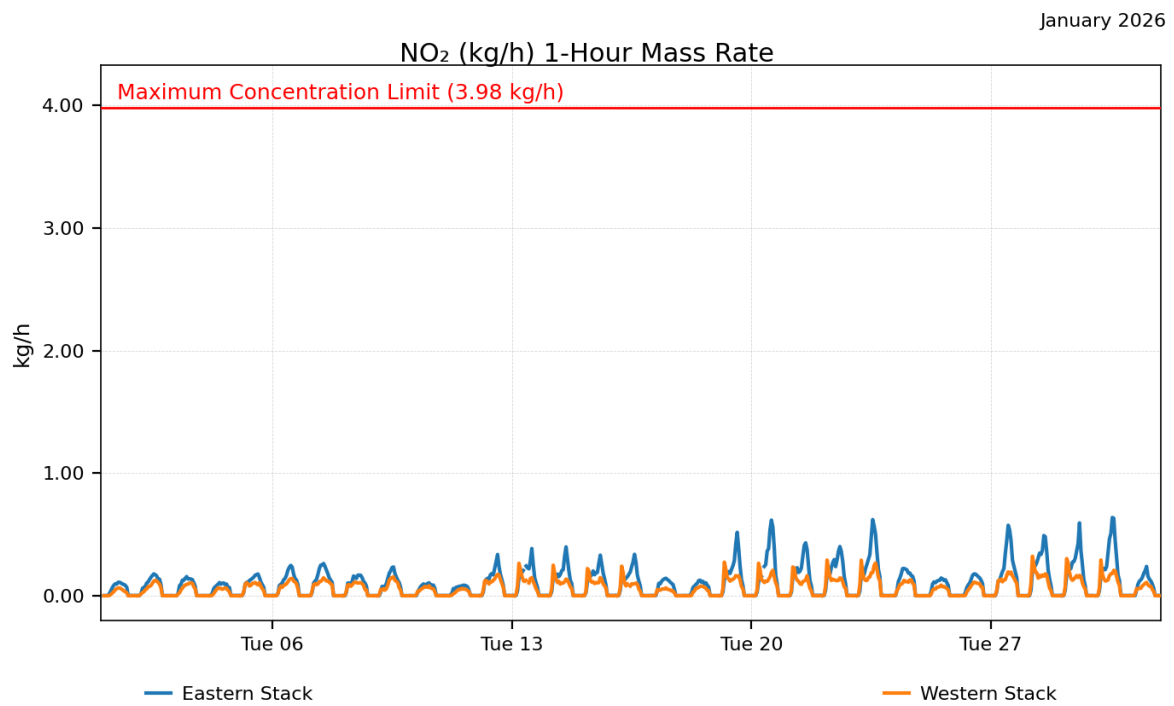


Figure 2. January 2026 Monthly 1-hour mass rate NO<sub>2</sub>

7.4.2.2 January 2026 – Monthly 1-hour mass rate NO

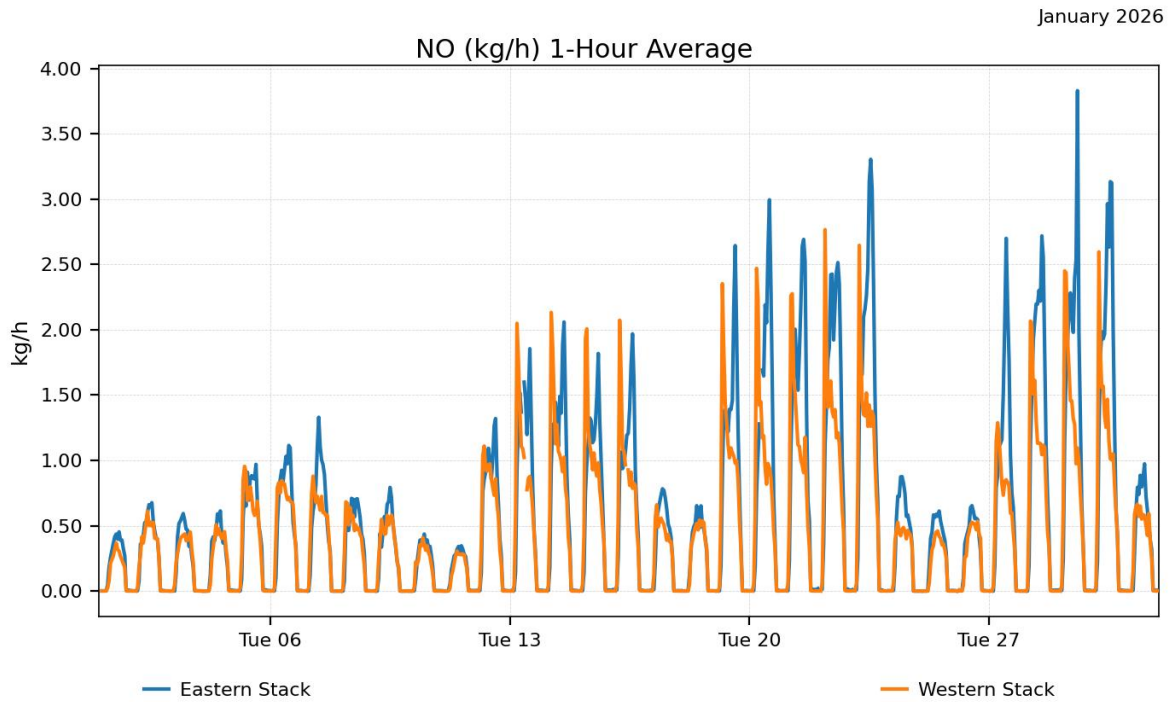


Figure 3. January 2026 Monthly 1-hour mass rate NO

7.4.2.3 January 2026 – Monthly 1-hour mass rate CO

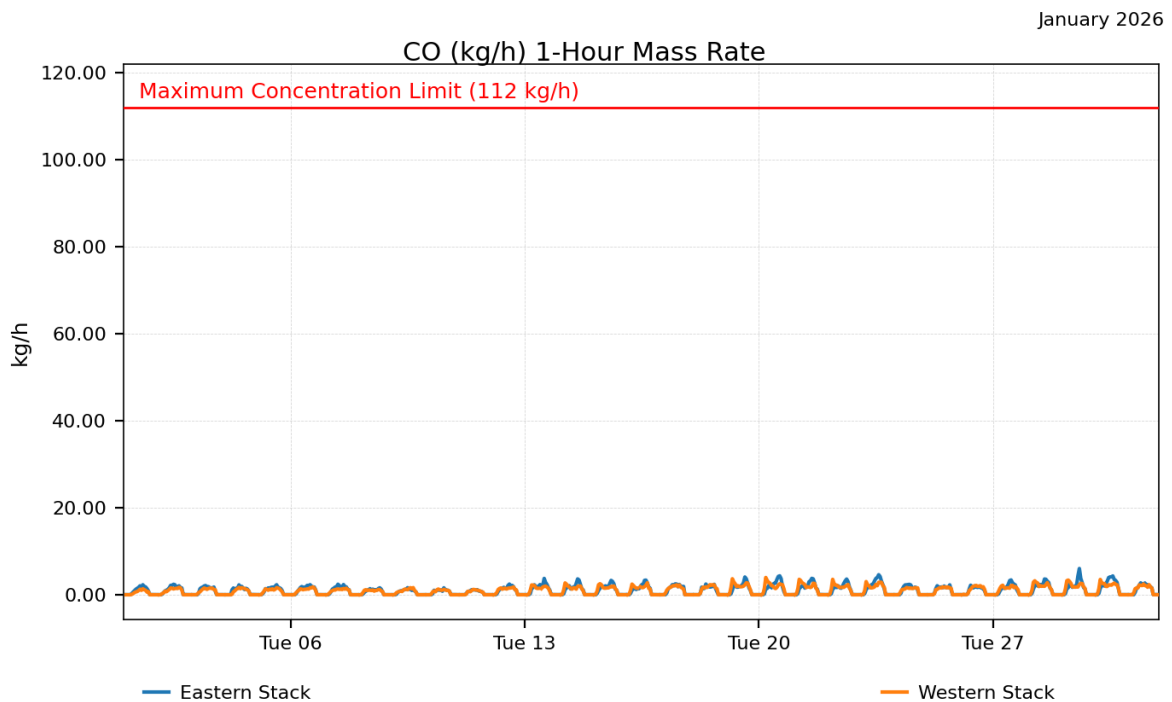


Figure 4. January 2026 Monthly 1-hour mass rate CO



7.4.2.6 January 2026 – Monthly 1-hour average stack velocity

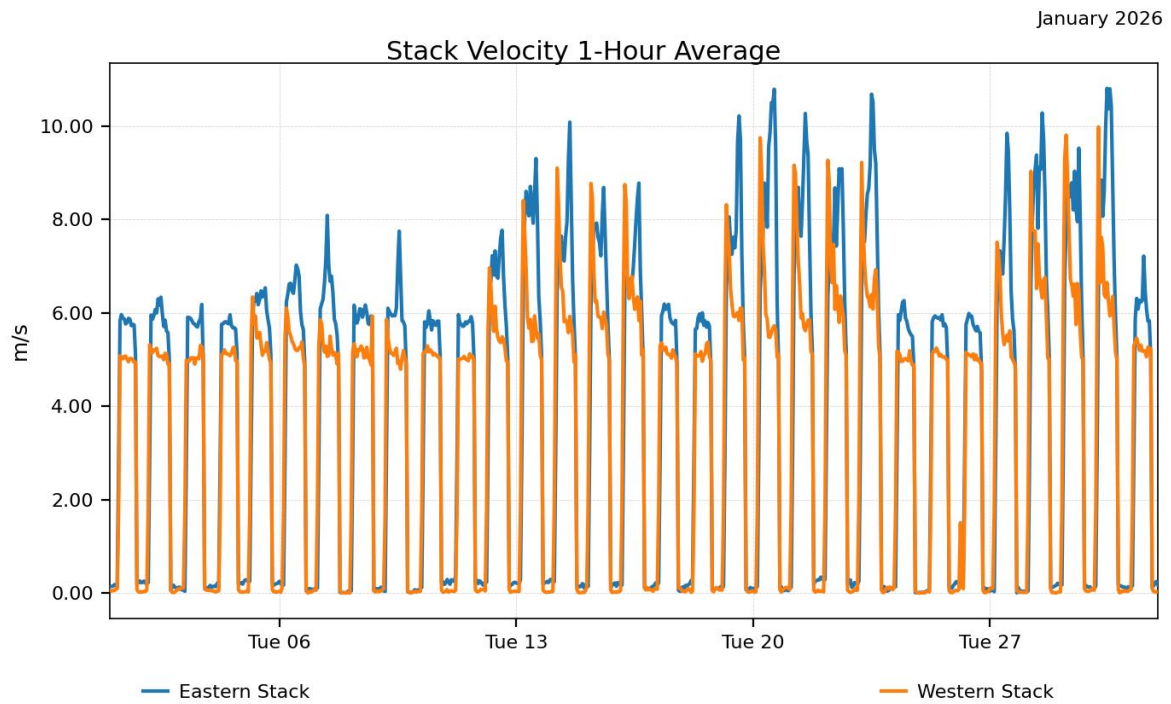


Figure 7. January 2026 Monthly 1-hour average stack velocity

7.4.2.7 January 2026 – Monthly 1-hour average stack temperature

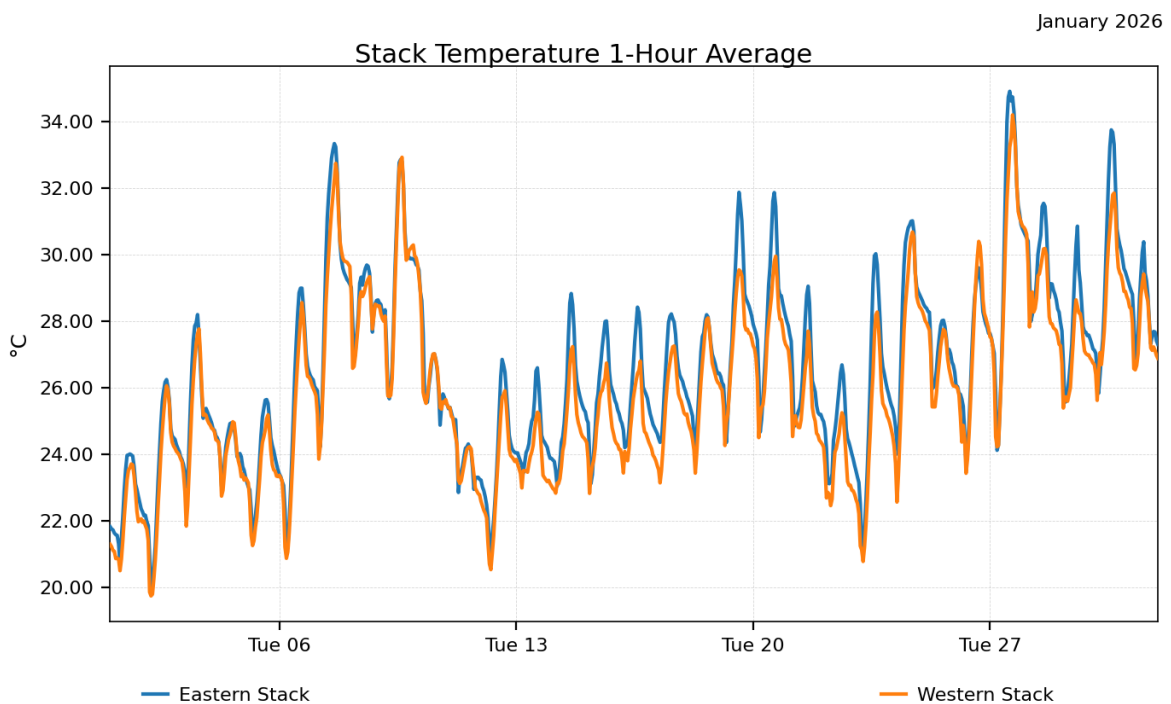


Figure 8. January 2026 Monthly 1-hour average stack temperature

7.4.3 February 2026

7.4.3.1 February 2026 – Monthly 1-hour mass rate NO<sub>2</sub>

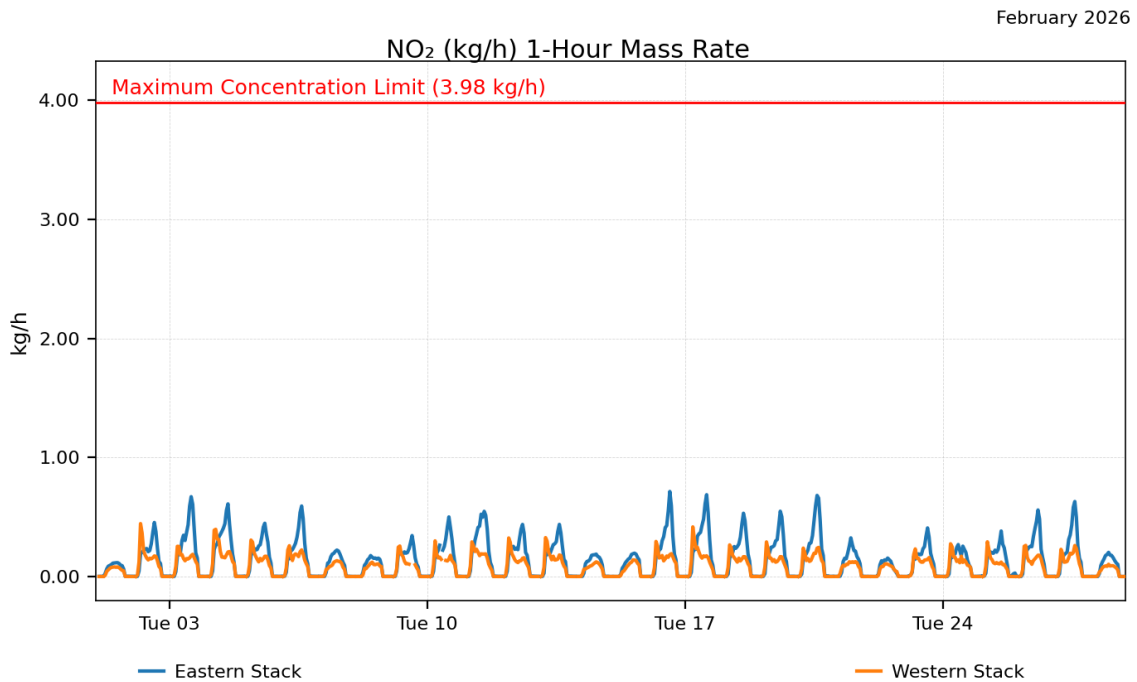


Figure 9. February 2026 Monthly 1-hour mass rate NO<sub>2</sub>

7.4.3.2 February 2026 – Monthly 1-hour mass rate NO

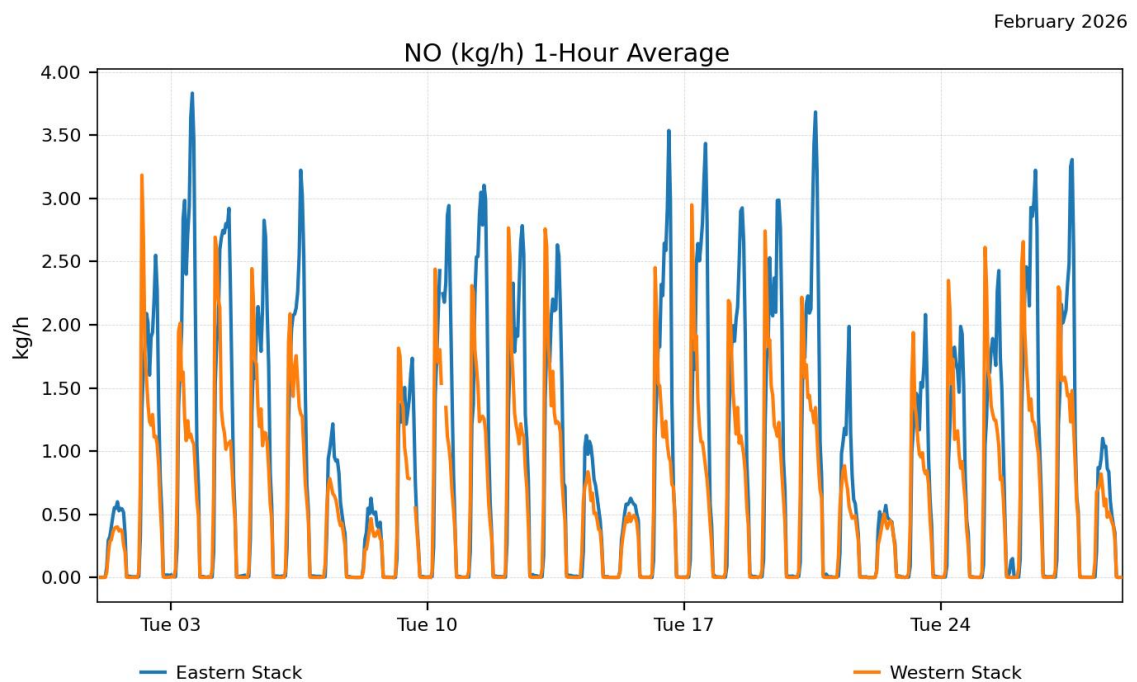


Figure 10. February 2026 Monthly 1-hour mass rate NO

7.4.3.3 February 2026 – Monthly 1-hour mass rate CO

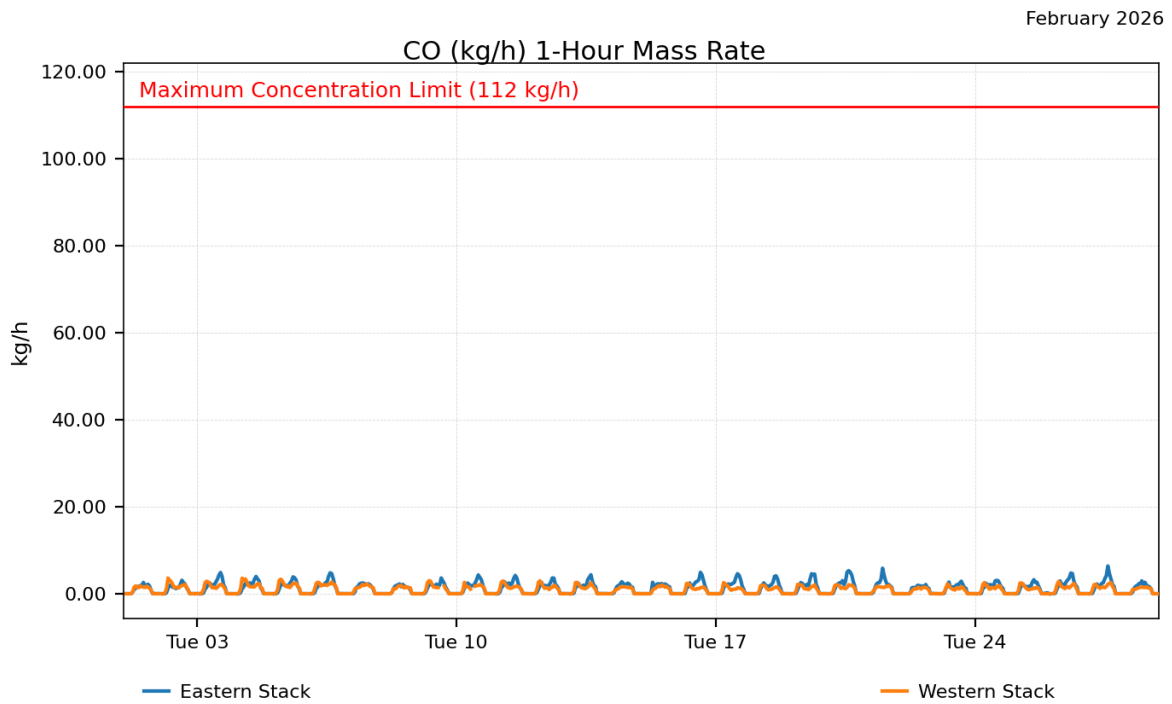


Figure 11. February 2026 Monthly 1-hour mass rate CO

7.4.3.4 February 2026 – Monthly 1-hour mass rate PM<sub>2.5</sub>

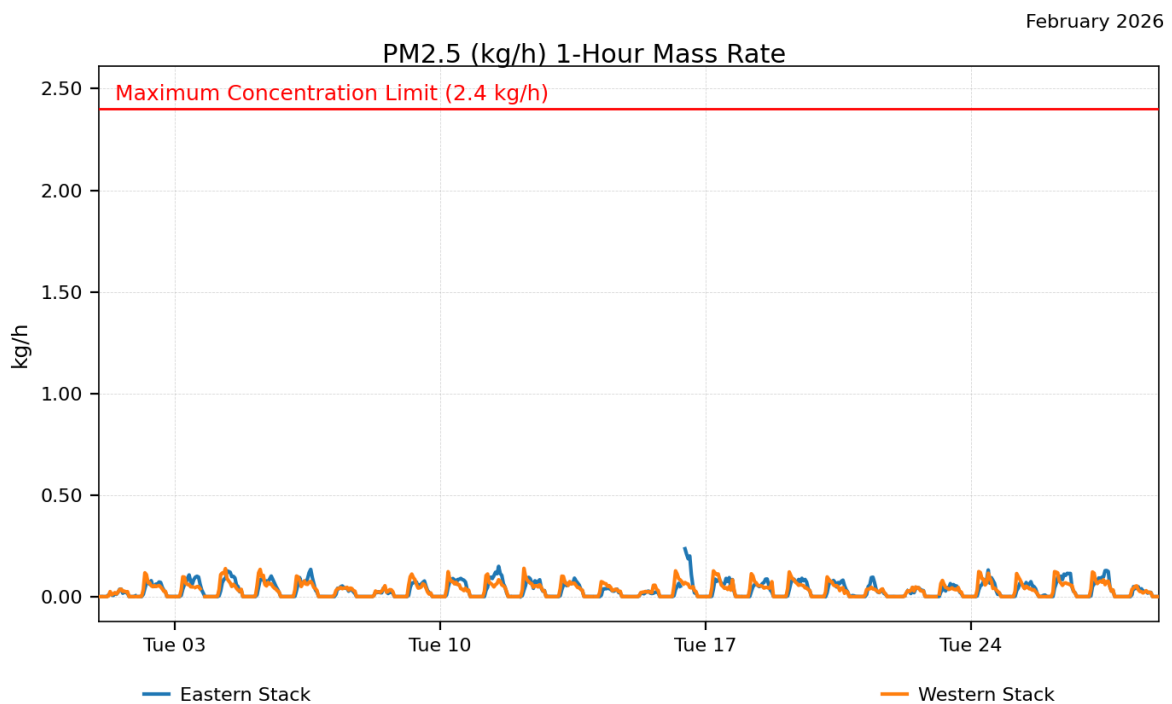


Figure 12. February 2026 Monthly 1-hour mass rate PM<sub>2.5</sub>



7.4.3.7 February 2026 – Monthly 1-hour average stack temperature

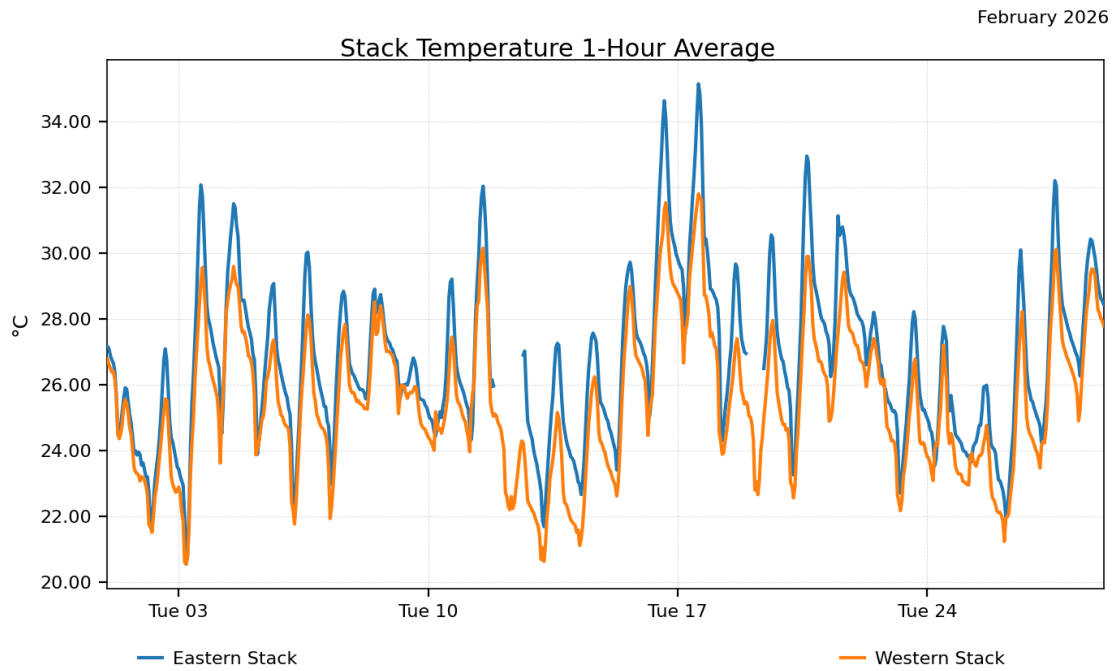


Figure 15. February 2026 Monthly 1-hour average stack temperature

7.4.4 March 2026

7.4.4.1 March 2026 – Monthly 1-hour mass rate NO<sub>2</sub>

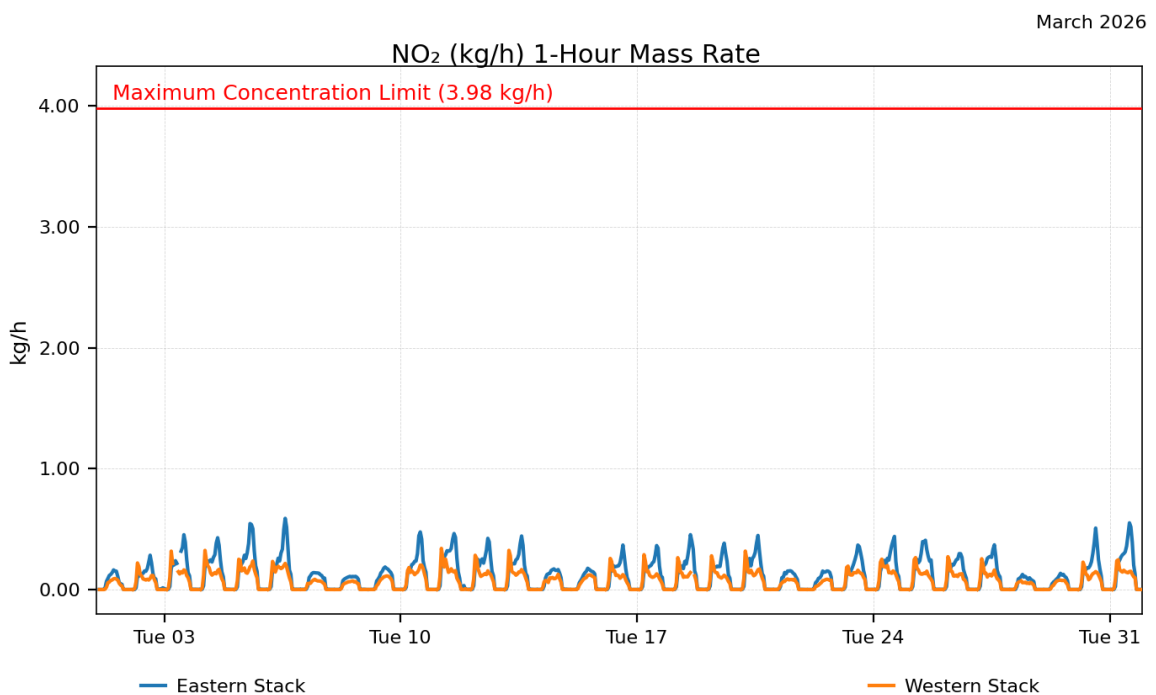


Figure 16. March 2026 Monthly 1-hour mass rate NO<sub>2</sub>

7.4.4.2 March 2026 – Monthly 1-hour mass rate NO

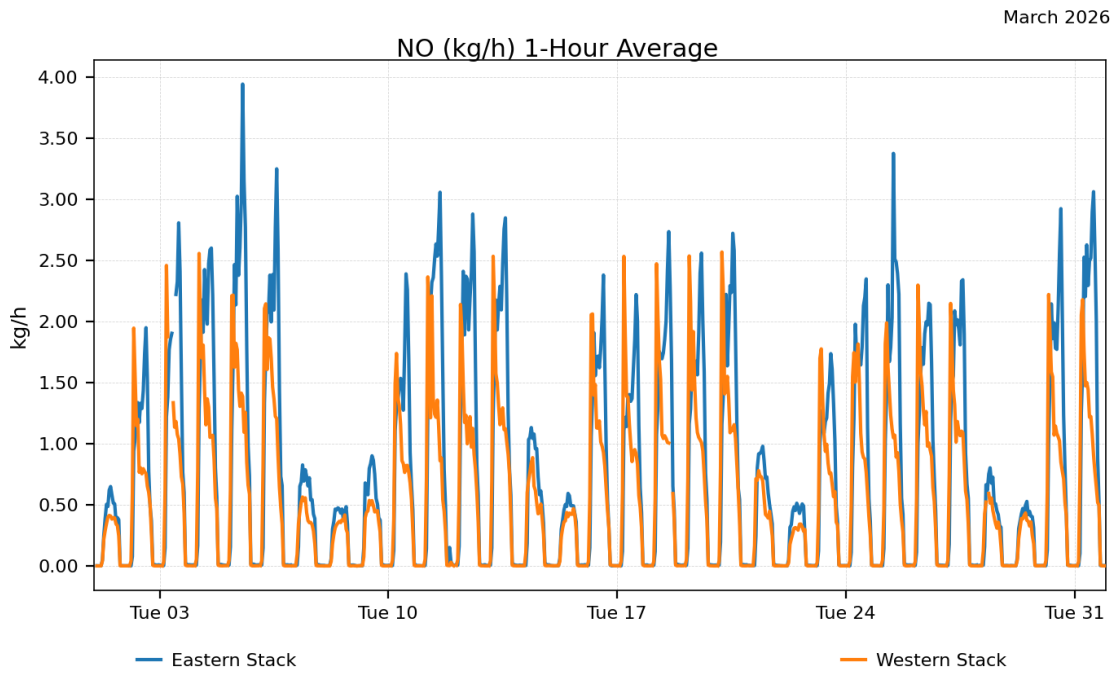


Figure 17. March 2026 Monthly 1-hour mass rate NO

7.4.4.3 March 2026 – Monthly 1-hour mass rate CO

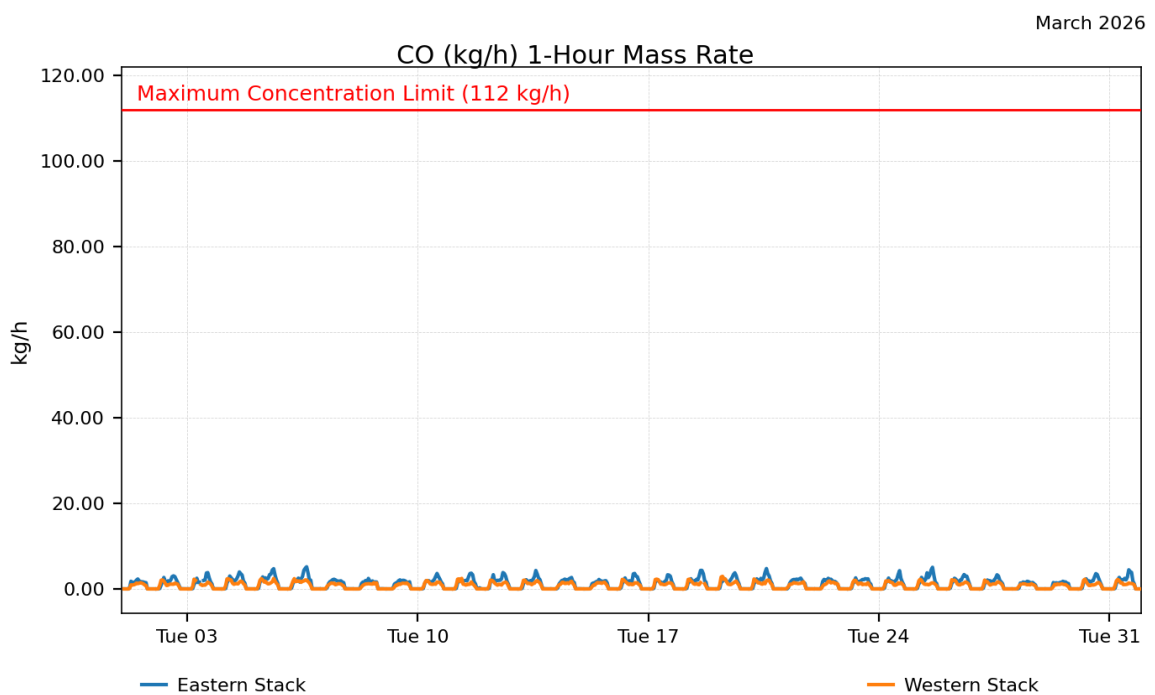


Figure 18. March 2026 Monthly 1-hour mass rate CO

7.4.4.4 March 2026 – Monthly 1-hour mass rate PM<sub>2.5</sub>

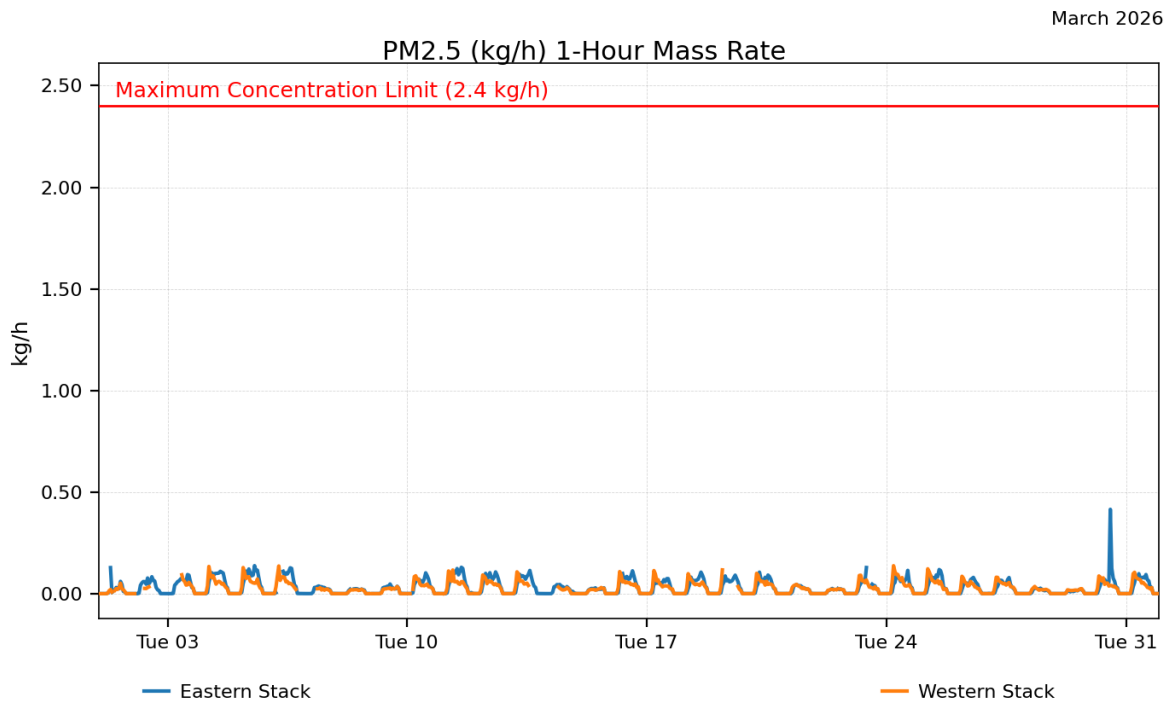


Figure 19. March 2026 Monthly 1-hour mass rate PM<sub>2.5</sub>

7.4.4.5 March 2026 – Monthly 1-hour mass rate PM<sub>10</sub>

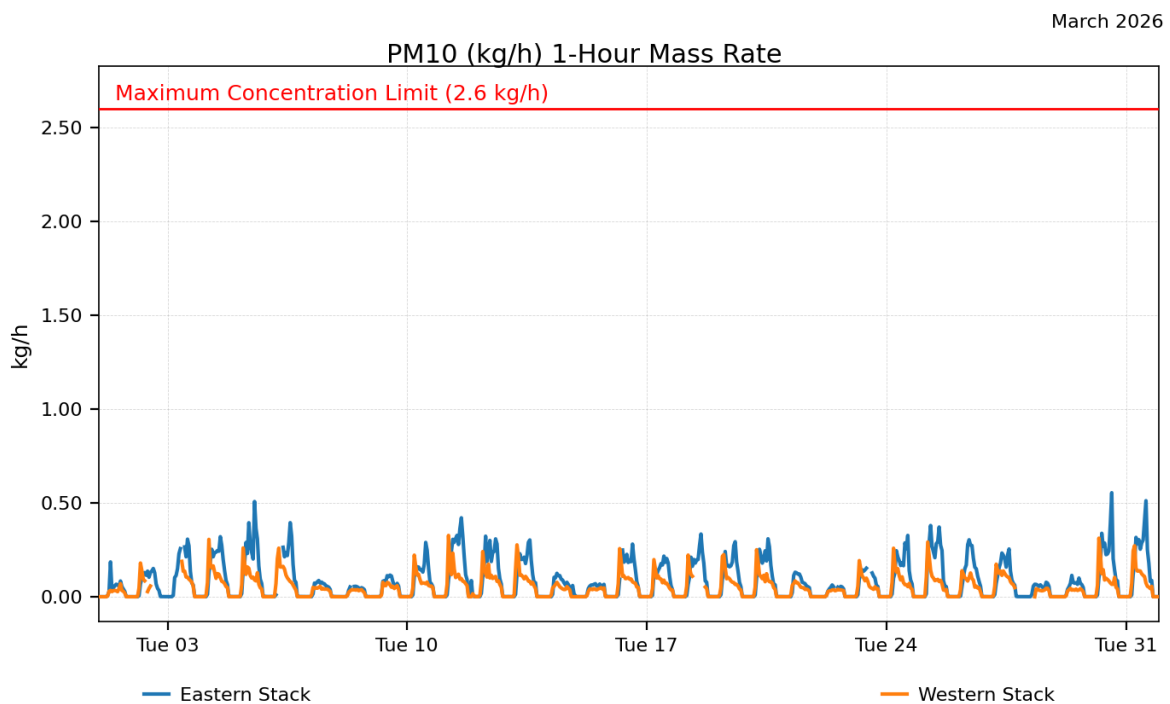


Figure 20. March 2026 Monthly 1-hour mass rate PM<sub>10</sub>

7.4.4.6 March 2026 – Monthly 1-hour average stack velocity

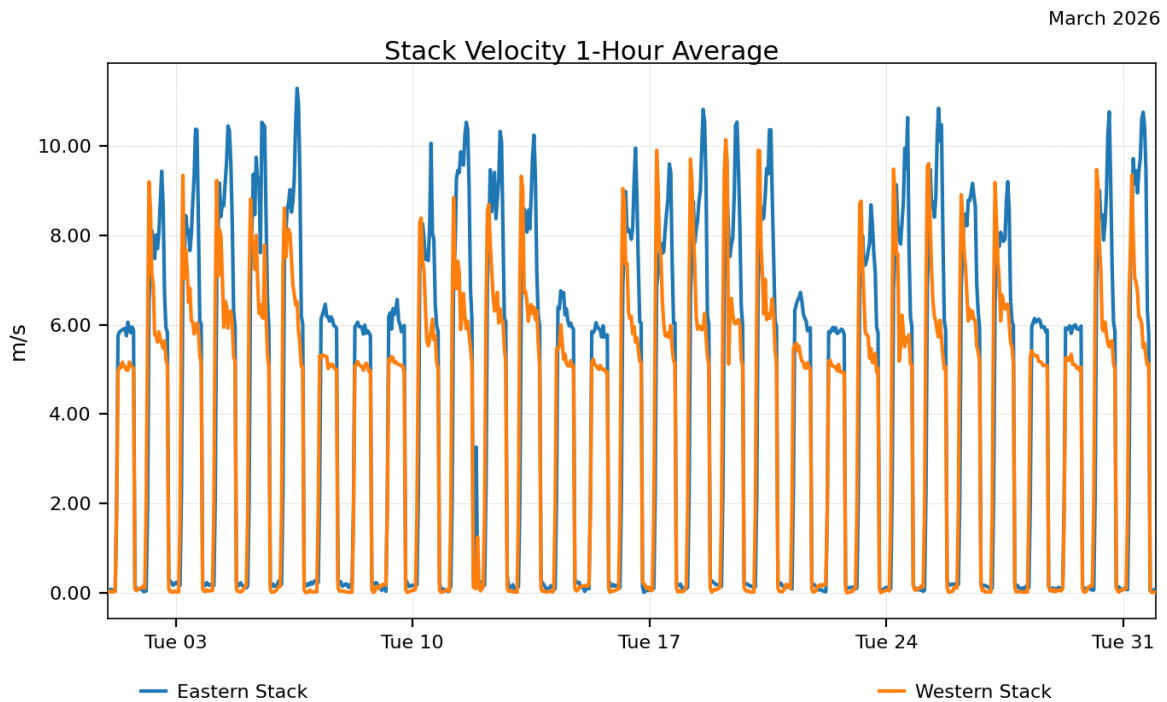


Figure 21. March 2026 Monthly 1-hour average stack velocity

7.4.4.7 March 2026 – Monthly 1-hour average stack temperature

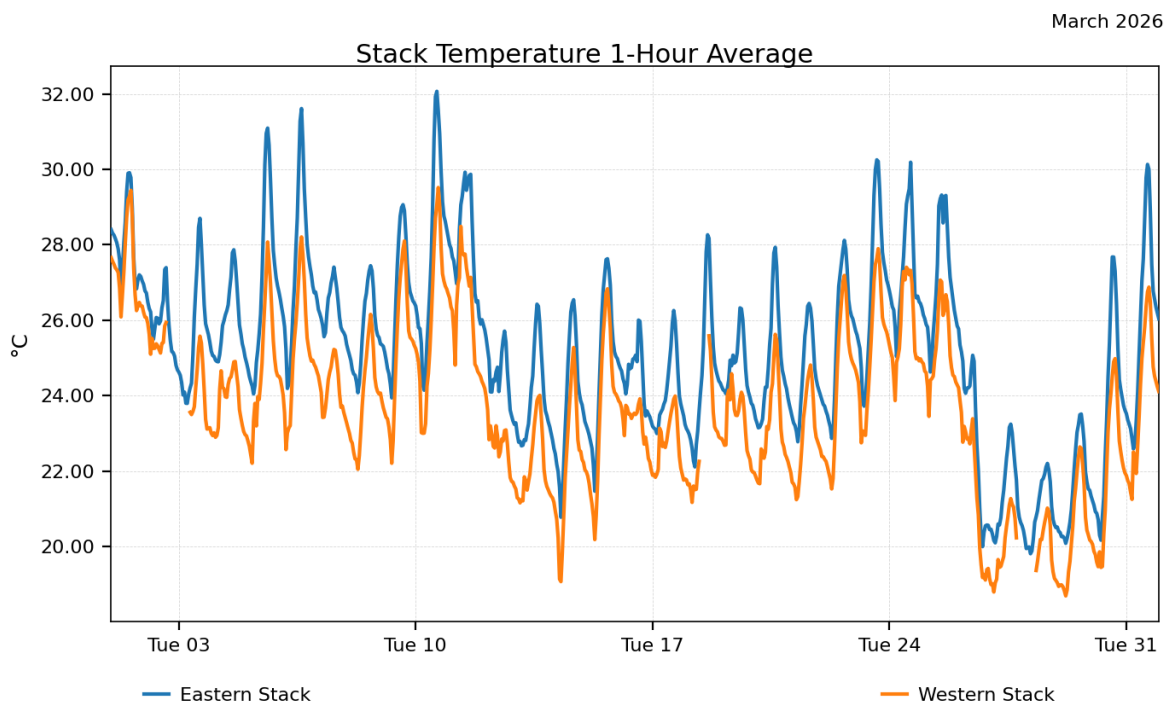


Figure 22. March 2026 Monthly 1-hour average stack temperature

## 8. Data Exceptions

This section outlines any issues noted with the monitoring equipment during the reporting period.

### 8.1 January 2026

#### 8.1.1 January 2026 Western Ventilation Stack

EastLink Ventilation Western Ventilation Stack Data Validation – 2026						
Start Date	End Date	Parameters	Reason	Hours affected	User Name	Changed Date
1/01/2026 0:00	10/02/2026 10:19	CO	Multiplier applied to data: Multiplier A: 0.980034 Multiplier B: 0.934203	N/A	TA	24/04/2026
1/01/2026 0:00	31/01/2026 23:59	NO, NO <sub>2</sub> , NO <sub>x</sub>	Offset applied to data: NO Offset A: 0.054 B: 0.054 NO <sub>2</sub> Offset A: -0.027 B: -0.027 NO <sub>x</sub> Offset A: 0.023 B: 0.023	N/A	TA	24/04/2026
2/01/2026 0:13	31/01/2026 23:53	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data - negative	N/A	TA	24/04/2026
3/01/2026 15:49	3/01/2026 16:58	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > PM <sub>10</sub>	1.1	TA	24/04/2026
13/01/2026 10:45	13/01/2026 11:33	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	0.8	TA	24/04/2026
22/01/2026 14:00	31/01/2026 23:59	CO	Offset applied to data: Offset A: -0.3 Offset B: -0.3	N/A	TA	24/04/2026
26/01/2026 3:50	26/01/2026 5:01	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > PM <sub>10</sub>	1.2	TA	24/04/2026
30/01/2026 16:00	31/01/2026 0:24	PM <sub>2.5</sub>	Unrealistic data - PM <sub>2.5</sub> > PM <sub>10</sub>	8.4	TA	24/04/2026

Table 24. January 2026 Western Ventilation Stack data validation

### 8.1.2 January 2026 Eastern Ventilation Stack

EastLink Ventilation Eastern Ventilation Stack Data Validation - 2026						
Start Date	End Date	Parameters	Reason	Hours affected	Username	Changed Date
8/01/2026 18:09	31/01/2026 23:15	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data - negative	N/A	TA	24/04/2026
13/01/2026 9:26	13/01/2026 10:08	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	0.7	TA	24/04/2026
18/01/2026 1:10	18/01/2026 3:55	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM2.5 > 10	2.8	TA	24/04/2026
20/01/2026 9:11	1/03/2026 0:00	CO	Offset applied to data: Offset A: -0.3 Offset B: -0.7	N/A	TA	24/04/2026

Table 25. January 2026 Eastern Ventilation Stack data validation

## 8.2 February 2026

### 8.2.1 February 2026 Western Ventilation Stack

EastLink Ventilation Western Ventilation Stack Data Validation – February 2026						
Start Date	End Date	Parameters	Reason	Hours affected	Username	Changed Date
1/02/2026 0:00	9/02/2026 13:08	CO	Offset applied to data: Offset A: -0.3 Offset B: -0.7	N/A	TA	24/04/2026
1/02/2026 0:00	28/02/2026 23:59	NO, NO <sub>2</sub> , NO <sub>x</sub>	Offset applied to data: NO Offset A: 0.05 B: 0.05 NO <sub>2</sub> Offset A: -0.02 B: -0.02 NO <sub>x</sub> Offset A: 0.03 B: 0.03	N/A	TA	24/04/2026
1/02/2026 0:06	28/02/2026 0:55	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data - negative	N/A	TA	24/04/2026
3/02/2026 11:58	3/02/2026 12:26	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM2.5 > PM10	0.5	TA	24/04/2026
3/02/2026 17:02	3/02/2026 18:24	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM2.5 > PM10	1.4	TA	24/04/2026
9/02/2026 13:08	9/02/2026 15:50	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	2.7	TA	24/04/2026
10/02/2026 10:19	10/02/2026 11:36	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	1.3	TA	24/04/2026
14/02/2026 1:12	14/02/2026 2:11	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM2.5 > PM10	1.0	TA	24/04/2026

Table 26. February 2026 Western Ventilation Stack data validation

### 8.2.2 February 2026 Eastern Ventilation Stack

EastLink Ventilation Eastern Ventilation Stack Data Validation – February 2026						
Start Date	End Date	Parameters	Reason	Hours affected	User Name	Changed Date
1/02/2026 0:34	27/02/2026 2:28	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data - negative	N/A	TA	24/04/2026
2/02/2026 0:35	2/02/2026 1:03	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	0.5	TA	24/04/2026
10/02/2026 8:56	10/02/2026 9:47	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	0.8	TA	24/04/2026
11/02/2026 20:40	12/02/2026 18:13	PM <sub>10</sub> , Stack Temp	Instrument fault	21.6	TA	24/04/2026
16/02/2026 9:21	16/02/2026 11:05	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	1.7	TA	24/04/2026
18/02/2026 22:02	19/02/2026 12:02	PM <sub>10</sub> , Stack Temp	Instrument fault	14.0	TA	24/04/2026

Table 27. February 2026 Eastern Ventilation Stack data validation

### 8.3 March 2026

#### 8.3.1 March 2026 Western Ventilation Stack

EastLink Ventilation Western Ventilation Stack Data Validation – March 2026						
Start Date	End Date	Parameters	Reason	Hours affected	User Name	Changed Date
1/03/2026 0:00	31/03/2026 23:59	NO, NO <sub>2</sub> , NO <sub>x</sub>	Offset applied to data: NO Offset A: 0.045 B: 0.045 NO <sub>2</sub> Offset A: -0.019 B: -0.019 NO <sub>x</sub> Offset A: 0.026 B: 0.026	N/A	TA	24/04/2026
1/03/2026 1:03	31/03/2026 23:18	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data - negative	N/A	TA	24/04/2026
2/03/2026 1:58	2/03/2026 7:46	PM <sub>2.5</sub>	Unrealistic data - PM <sub>2.5</sub> > PM <sub>10</sub>	5.8	TA	24/04/2026
2/03/2026 12:06	2/03/2026 12:44	PM <sub>2.5</sub>	Unrealistic data - PM <sub>2.5</sub> > PM <sub>10</sub>	0.6	TA	24/04/2026
2/03/2026 13:23	3/03/2026 9:22	PM <sub>2.5</sub> , PM <sub>10</sub> , Stack Temp	Instrument fault	20.0	TA	24/04/2026
3/03/2026 7:16	3/03/2026 9:22	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	2.1	TA	24/04/2026
3/03/2026 9:23	18/03/2026 15:17	CO	Multiplier applied to data: Multiplier A: 0.980034 Multiplier B: 0.940854	N/A	TA	24/04/2026
6/03/2026 19:13	7/03/2026 9:10	PM <sub>2.5</sub>	Instrument fault	14.0	TA	24/04/2026
13/03/2026 14:25	14/03/2026 10:01	PM <sub>2.5</sub>	Instrument fault	19.6	TA	24/04/2026
14/03/2026 1:46	18/03/2026 15:17	NO, NO <sub>2</sub> , NO <sub>x</sub>	Multiplier applied to data: Multiplier A: 1.076565 Multiplier B: 1.133941	N/A	TA	24/04/2026
18/03/2026 9:44	18/03/2026 17:01	PM <sub>10</sub> , Stack Temp	Instrument fault	7.3	TA	24/04/2026
18/03/2026 15:17	18/03/2026 16:23	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	1.1	TA	24/04/2026

EastLink Ventilation Western Ventilation Stack Data Validation – March 2026 - Continued						
Start Date	End Date	Parameters	Reason	Hours affected	User Name	Changed Date
18/03/2026 16:23	22/03/2026 1:45	NO, NO <sub>2</sub> , NO <sub>x</sub>	Multiplier applied to data: Multiplier A: 1.0 Multiplier B: 1.086694	N/A	TA	24/04/2026
18/03/2026 16:24	31/03/2026 23:59	CO	Offset applied to data: Offset A: -0.1 Offset B: -0.4	N/A	TA	24/04/2026
19/03/2026 6:36	19/03/2026 16:07	PM <sub>2.5</sub>	Instrument fault	9.5	TA	24/04/2026
22/03/2026 1:46	28/03/2026 8:07	NO, NO <sub>2</sub> , NO <sub>x</sub>	Multiplier applied to data: Multiplier A: 0.921893 Multiplier B: 0.921893	N/A	TA	24/04/2026
27/03/2026 18:59	28/03/2026 8:11	PM <sub>10</sub> , Stack Temp	Instrument fault	13.2	TA	24/04/2026
28/03/2026 8:07	28/03/2026 8:25	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	0.3	TA	24/04/2026

Table 28. March 2026 Western Ventilation Stack data validation

### 8.3.2 March 2026 Eastern Ventilation Stack

EastLink Ventilation Eastern Ventilation Stack Data Validation – March 2026						
Start Date	End Date	Parameters	Reason	Hours affected	User Name	Changed Date
1/03/2026 0:00	31/03/2026 23:59	CO	Offset applied to data: Offset A: -0.7 Offset B: -0.8	N/A	TA	24/04/2026
1/03/2026 7:42	26/03/2026 22:44	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data - negative	N/A	TA	24/04/2026
3/03/2026 10:08	3/03/2026 12:05	CO, NO, NO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> , PM <sub>10</sub>	Maintenance	1.9	TA	24/04/2026
6/03/2026 5:15	6/03/2026 8:44	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	3.5	TA	24/04/2026
8/03/2026 9:11	8/03/2026 10:54	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	1.7	TA	24/04/2026
8/03/2026 21:52	8/03/2026 23:46	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	1.9	TA	24/04/2026
16/03/2026 5:51	16/03/2026 6:28	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	0.6	TA	24/04/2026
22/03/2026 12:37	22/03/2026 14:10	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	1.6	TA	24/04/2026
23/03/2026 11:40	23/03/2026 13:40	PM <sub>2.5</sub> , PM <sub>10</sub>	Unrealistic data - PM <sub>2.5</sub> > 10	2.0	TA	24/04/2026

Table 29. March 2026 Eastern Ventilation Stack data validation

## 9. Report Summary

There were nil above-goal readings recorded during the reporting period.

## 10. Data validation explanations

**Automatic background check** refers to when analyser samples zero air and measures the level of the concentration voltage. This voltage is taken as the zero signal level and this value is subtracted from any subsequent readings as an active zero compensation. This is the analyser's fine zero measurement.

**Calibration check outside tolerance** refers to when the calibration values are outside the tolerance limits set for the precision check.

**Offset or Multiplier Applied to data** refers to an offset or multiplier applied to the data. This operation may be performed for a number of reasons including: (a) when a clear trend / drift outside the tolerance limit can be demonstrated by repeated operation precision checks, (b) when a correction is required on previously logged data due to a calibration check being outside the allowable tolerance

**Data transmission error** refers to a period of time when the instrument could not transmit data. This may be due to a communication fault between the logger and the instrument.

**Equipment malfunction/instrument fault** refers to a period of time when the instrument was not in the normal operating mode and did not measure a representative value of the existing conditions.

**Missing data/data not available** refers to a period of time when either data has been lost or could not be collected.

**Instrument Alarm** refers to an alarm produced by the instrument. A range of alarms can be produced depending on how the operation of the instrument is being affected.

**Instrument out of service** refers to an unavailability of data due to an instrument being shut down for repair, maintenance, or factory calibration.

**Logger error** refers to when an error occurs and instrument readings are not correctly recorded by the logger.

**Maintenance** refers to a period of time when the logger / instrument was unavailable due to maintenance.

**Overnight span/zero out of tolerance** refers to when the span/zero reading measured by the analyser during an automatic precision check falls outside of the expected concentration limits.

**Power Interruption** refers to no power to the station therefore no data was collected at this time.

**Remote Calibration** refers to when a technician remotely connects to the station and manually performs a span check.

**Warm up after power interruption** refers to the startup period of an instrument after power has been restored.