

Ground Level Particulate Notification Report - 27 January, 2026

Adelaide Brighton Cement, Birkenhead Works
62 Elder Road, Birkenhead, SA 501
EPA Licence No: 1126

Summary

The 24-hour average particulate matter monitoring data collected at the Community Park and Walton Street BAM monitoring sites during 27 January, 2026 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM_{10} concentration measured at Community Park BAM of $58.9 \mu\text{g}/\text{m}^3$ exceeded the EPP Air criterion of $50 \mu\text{g}/\text{m}^3$

Table 1: Monitoring Summary

Monitoring Location	Pollutant	24-hour average ($\mu\text{g}/\text{m}^3$)	EPP Air Criterion ($\mu\text{g}/\text{m}^3$)
Community Park BAM	PM_{10}	58.9	50
	$PM_{2.5}$	21.0	25
Walton Street	PM_{10}	43.5	50
	$PM_{2.5}$	14.2	25

ABC clinker plant is shutdown for major repairs, and activities likely to generate fugitive dust emissions are significantly reduced. Extended hot dry conditions in the regional air shed, and reduced flushing of the local Adelaide air shed, has resulted in generally high particulate levels. Particulate levels increased significantly following change in wind from an Easterly direction to a Southerly direction with increase in wind speed, - indicating a dust source to the South of ABC. Both community monitors were off-line for several hours for routine monthly maintenance/service, and dust levels are usually higher for several hours following service, until ambient monitoring station enclosure and equipment return to stable operating temperatures.

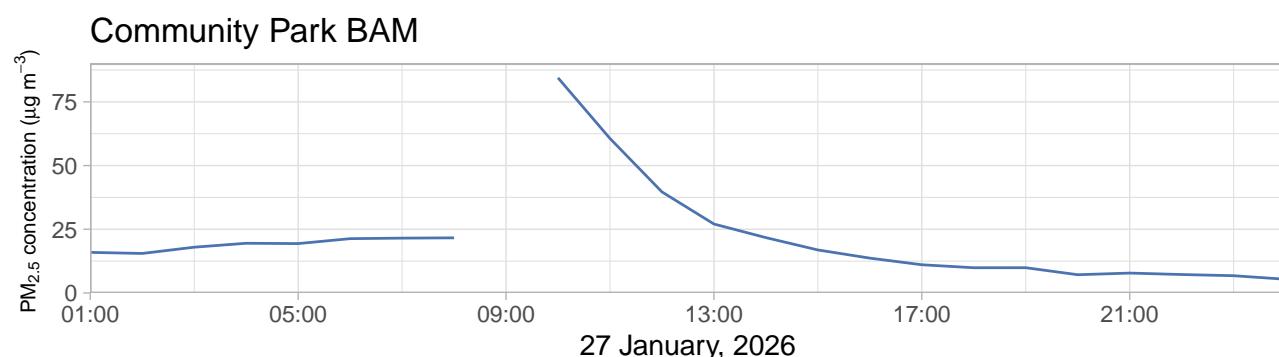
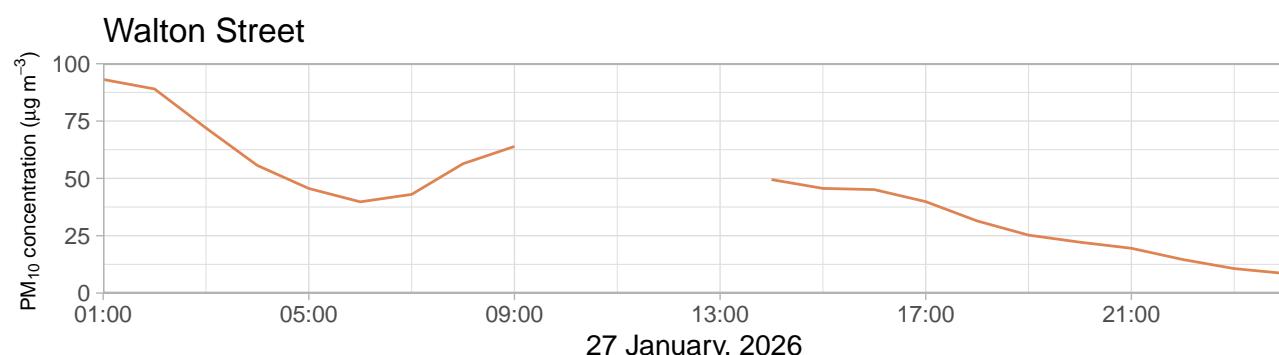
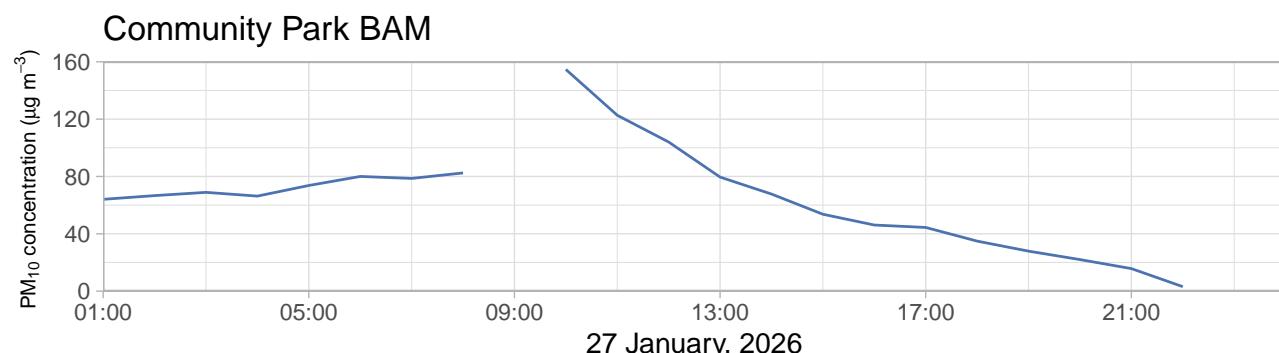
Community Monitoring

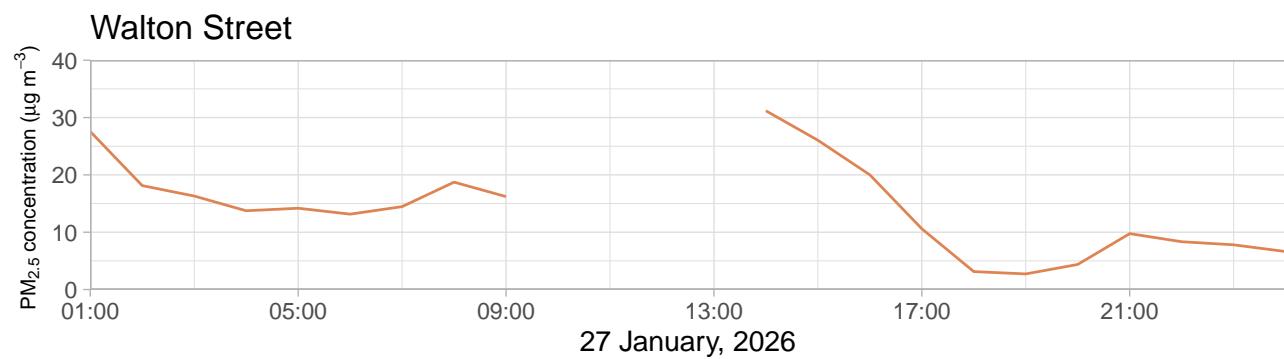
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM₁₀ and PM_{2.5} measured at each monitor, according to the average wind direction at the time of monitoring.

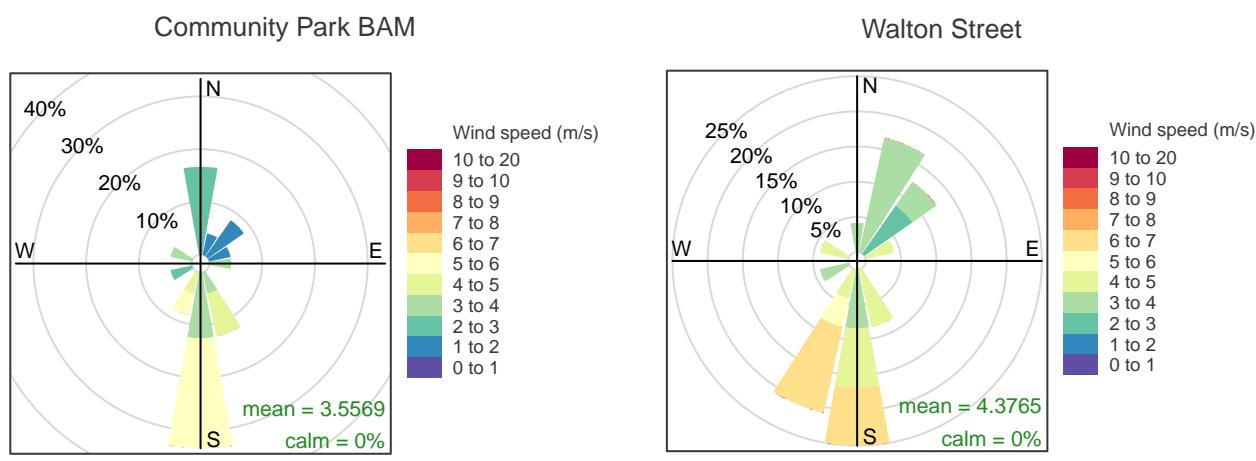
Monitoring Location	Direction	PM ₁₀ proportion (%)	PM _{2.5} proportion (%)
Community Park BAM	From direction of ABC (WD < 180)	48	41
Community Park BAM	From other direction (WD > 180)	52	59
Walton Street	From direction of ABC (WD < 180)	72	64
Walton Street	From other direction (WD > 180)	28	36

The figures below show the time series of 1-hour average measurements throughout 27 January, 2026





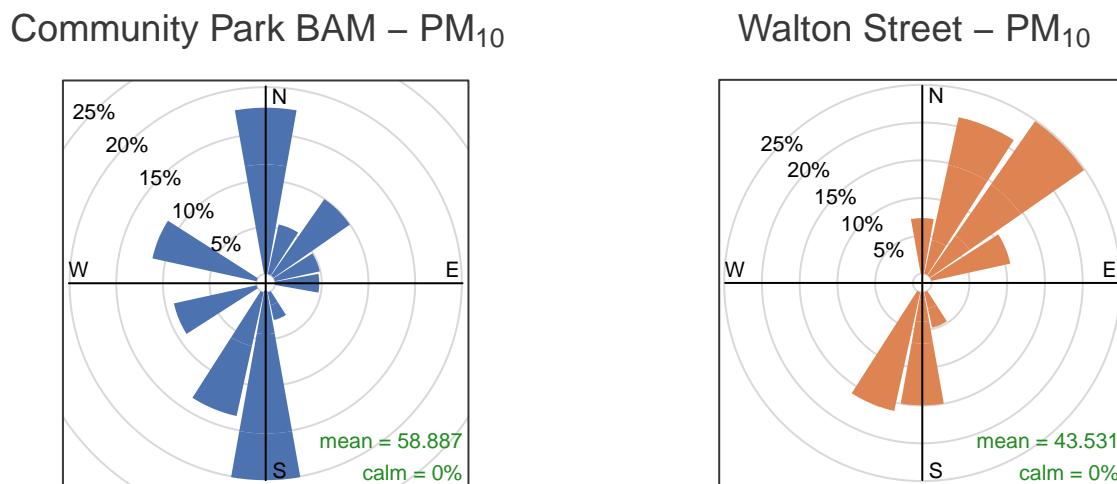
The figures below show wind roses summarising the period 27 January, 2026.



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

The figures below show dust roses summarising the period 27 January, 2026



Proportion contribution to the mean (%)

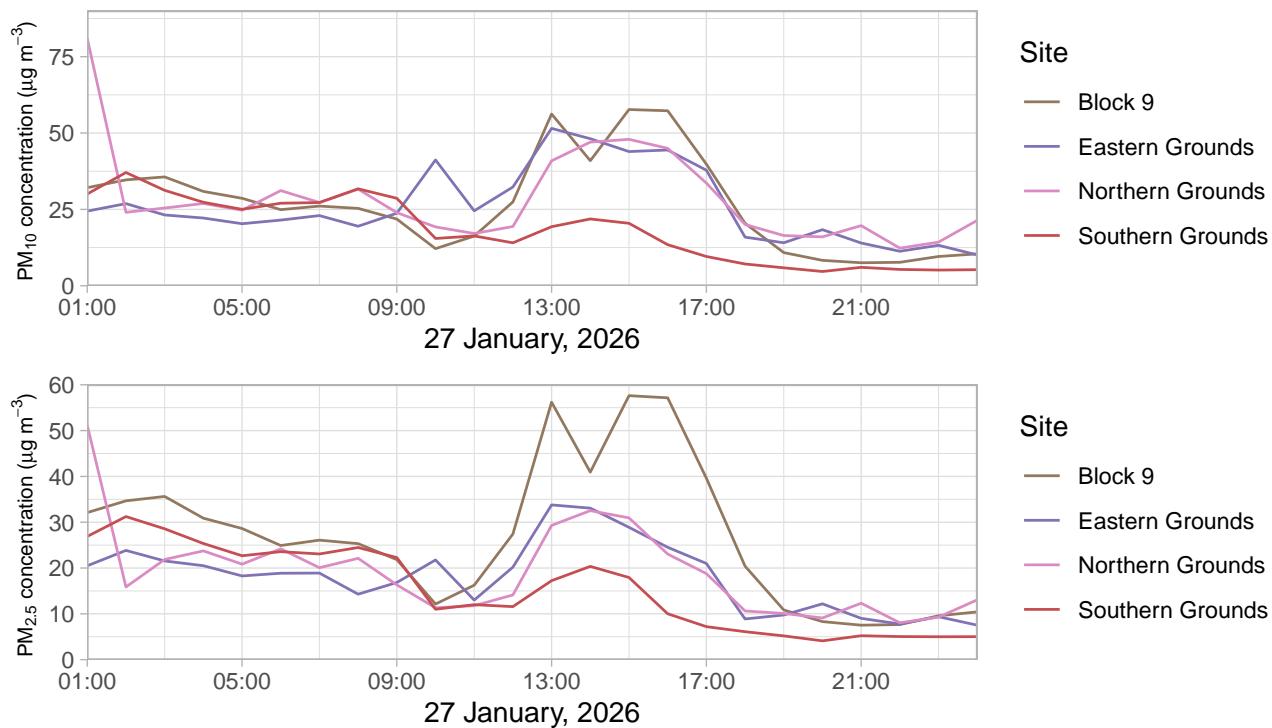
Proportion contribution to the mean (%)

Onsite Monitoring

Monitoring data collected at ABC's onsite monitors is presented in this section. The table below shows the 24-hour average concentrations measured at the onsite monitors.

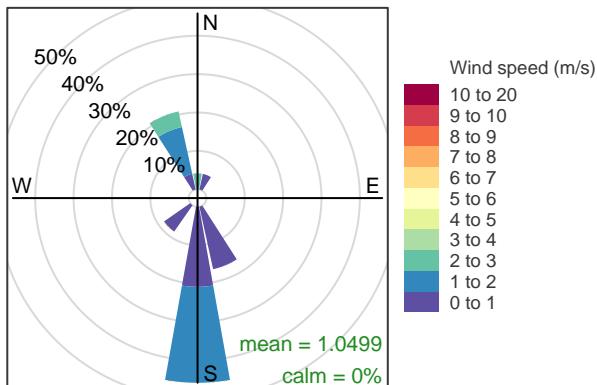
Monitoring Location	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)
Southern Grounds	18	15
Eastern Grounds	26	18
Block 9	27	27
Northern Grounds	29	19

The figure below shows the time series of 1-hour average measurements throughout 27 January, 2026 for each onsite monitor.

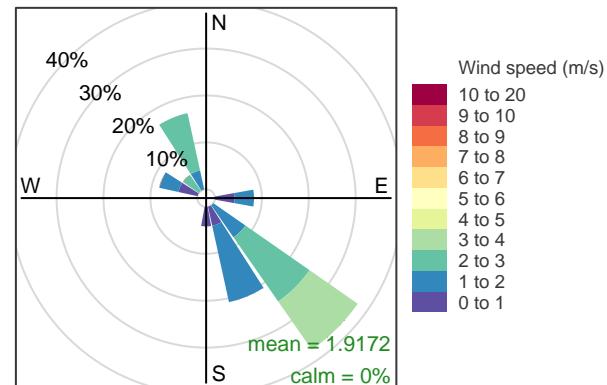


The figures below show wind and dust roses summarising the period 27 January, 2026 for each onsite monitor.

Southern Grounds



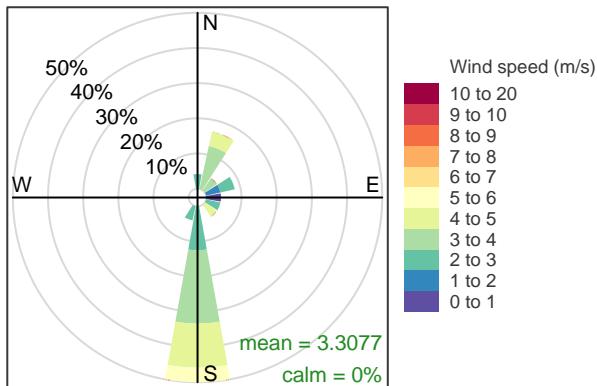
Eastern Grounds



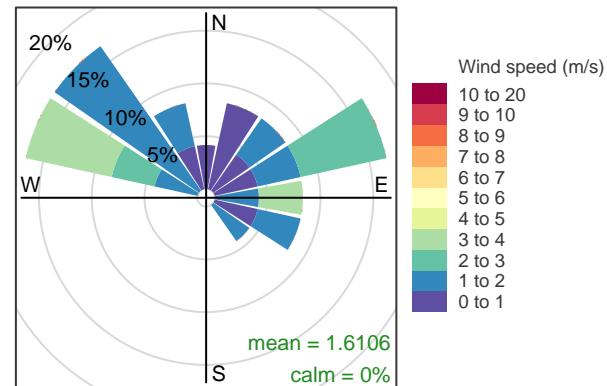
Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

Block 9



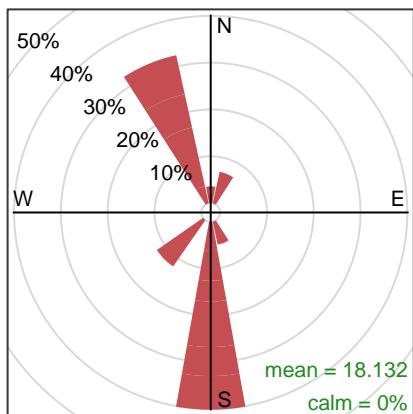
Northern Grounds



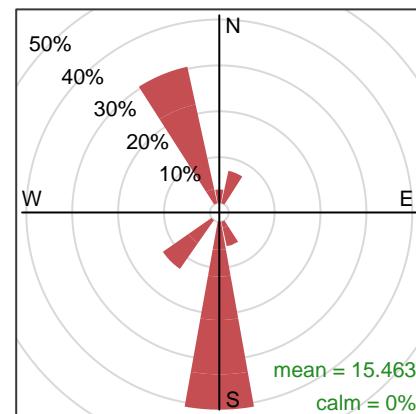
Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

Southern Grounds – PM₁₀

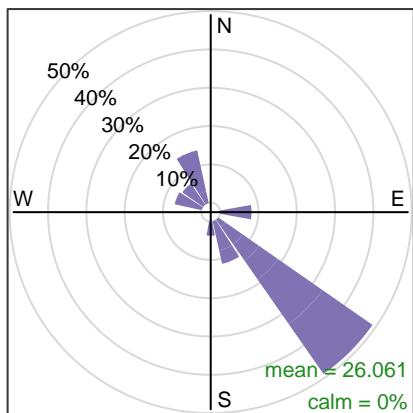


Southern Grounds – PM_{2.5}



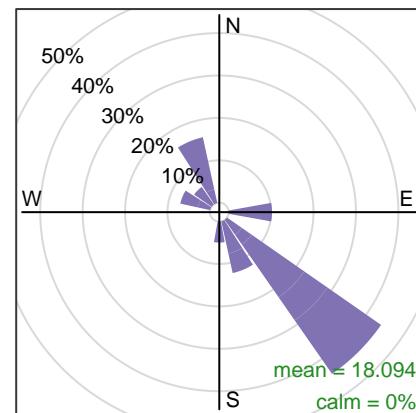
Proportion contribution to the mean (%)

Eastern Grounds – PM₁₀



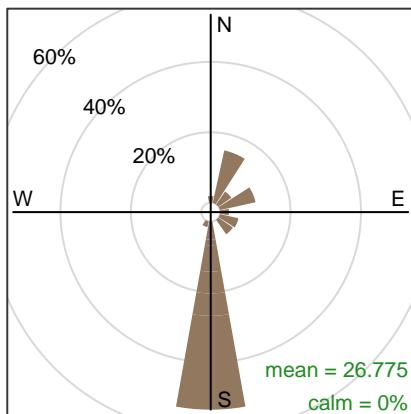
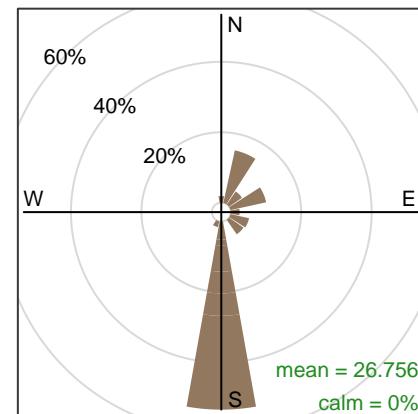
Proportion contribution to the mean (%)

Eastern Grounds – PM_{2.5}

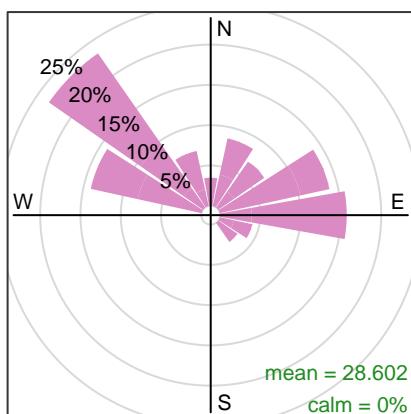


Proportion contribution to the mean (%)

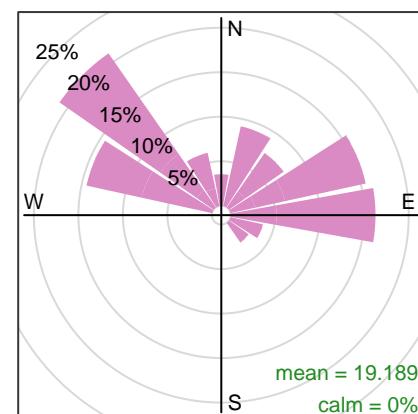
Proportion contribution to the mean (%)

Block 9 – PM₁₀Block 9 – PM_{2.5}

Proportion contribution to the mean (%)

Northern Grounds – PM₁₀

Proportion contribution to the mean (%)

Northern Grounds – PM_{2.5}

Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

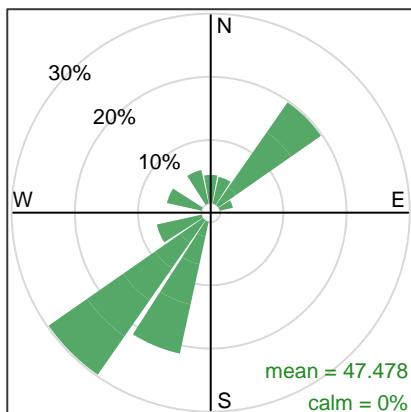
EPA Monitoring

The 24-hour average PM₁₀ and PM_{2.5} concentrations measured at the EPA monitoring sites are shown in the table below. Note that the data has not been validated.

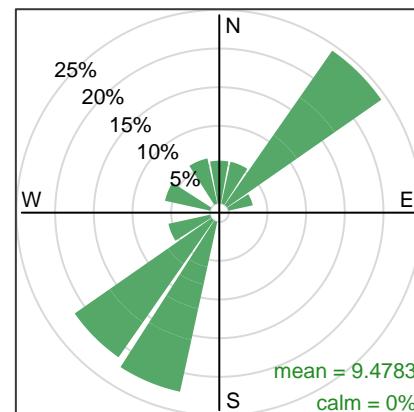
Site	Region	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)
CBD	Adelaide CBD	31	12
Christies	Southern Adelaide	38	-
Elizabeth	Northern Adelaide	42	10
Le Fevre 1	Northwestern Adelaide	46	9
Le Fevre 2	Northwestern Adelaide	35	8
Port Pirie Oliver St	Spencer Gulf	92	-
Whyalla Schulz Reserve	Spencer Gulf	98	-
Whyalla Walls St	Spencer Gulf	106	-

The dust roses below show the distribution of PM₁₀ and PM_{2.5} measured at Le Fevre 1 for the period 27 January, 2026.

Le Fevre 1 – PM₁₀



Le Fevre 1 – PM_{2.5}

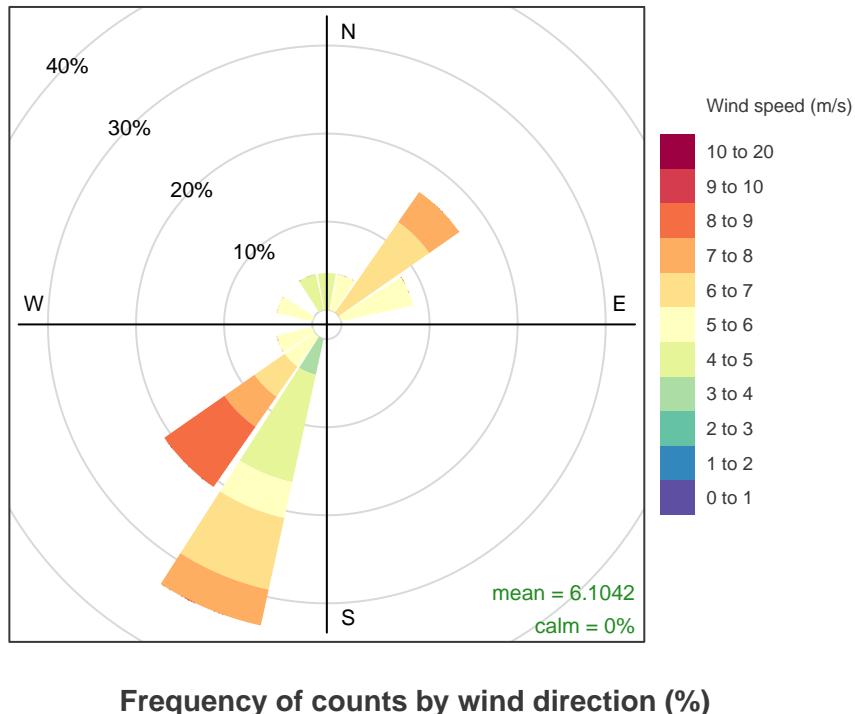


Proportion contribution to the mean (%)

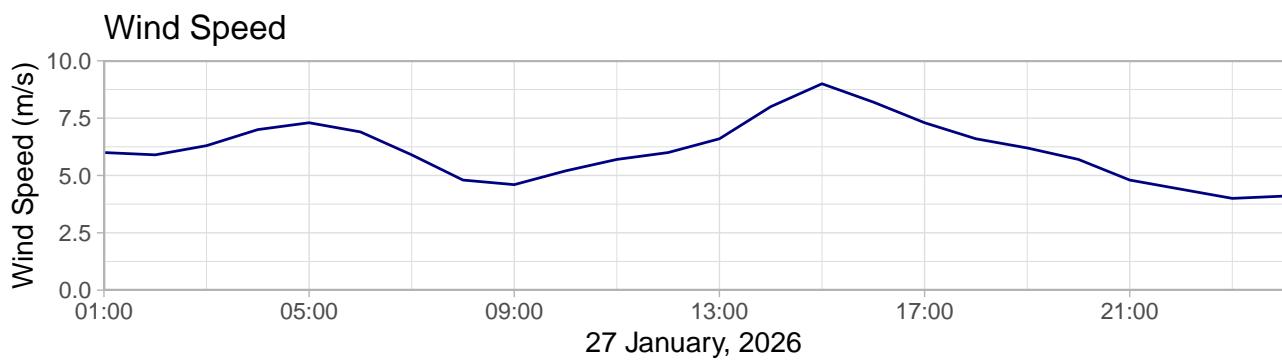
Proportion contribution to the mean (%)

Meteorological Monitoring

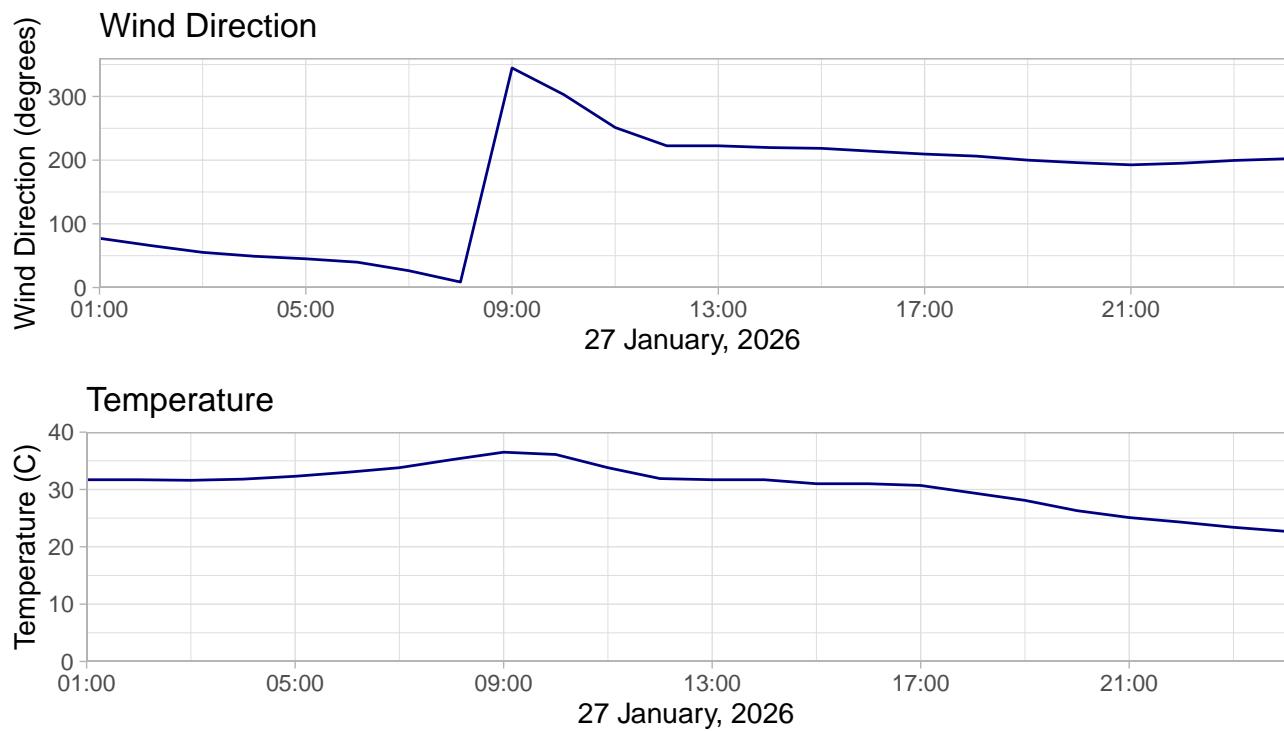
The following figures show meteorological parameters measured¹ throughout the day.



Frequency of counts by wind direction (%)



¹Powered by [Meteomatics](#)



Recent air quality data measured by ABC or EPA is indicative only and may be affected by instruments not working correctly, power failures and the like. Data is published directly from the monitors and will be validated at a later date.