

## Ground Level Particulate Notification Report - 15 May, 2019

**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 Gunn Street monitoring sites during 15 May, 2019 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM<sub>2.5</sub> concentration measured at Community Park of 27.5 µg/m<sup>3</sup> exceeded the EPP Air criterion of 25 µg/m<sup>3</sup>

**Table 1: Monitoring Summary**

Monitoring Location	Pollutant	24-hour average (µg/m <sup>3</sup> )	EPP Air Criterion (µg/m <sup>3</sup> )
Community Park	PM <sub>10</sub>	31.9	50
	PM <sub>2.5</sub>	27.5	25
Gunn Street	PM <sub>10</sub>	25.6	50
	PM <sub>2.5</sub>	24.0	25

Analysis of the particulate concentrations and wind direction measured on both the Community Park and Gunn Street monitors shows:

69% of the total PM<sub>2.5</sub> dust measured at the Community Park monitor throughout the 15th May 2019 came from wind that was blowing from a direction other than from ABC.

76% of the total PM<sub>2.5</sub> dust measured at the Gunn Street monitor, throughout the 15th May 2019, came from wind that was blowing from a direction other than from ABC.

This indicates that the majority of the measured particulate concentrations on both the Community Park and Gunn Street monitors came from sources other than ABC.

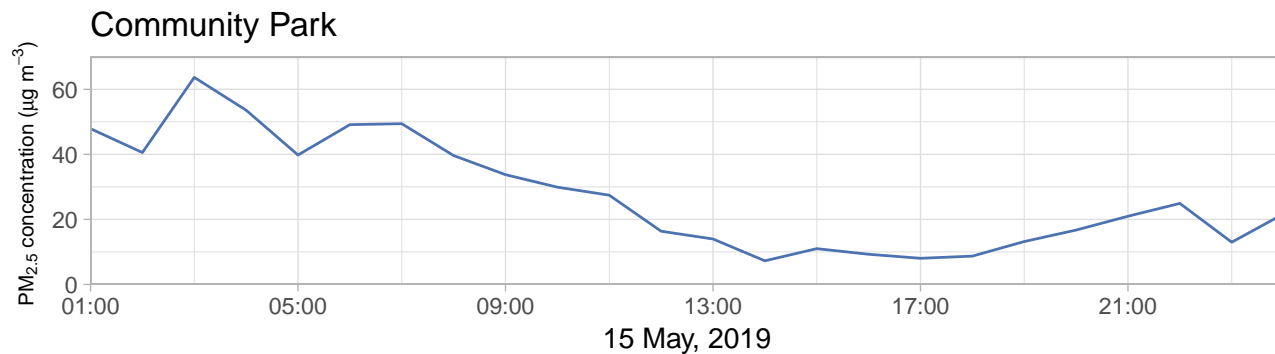
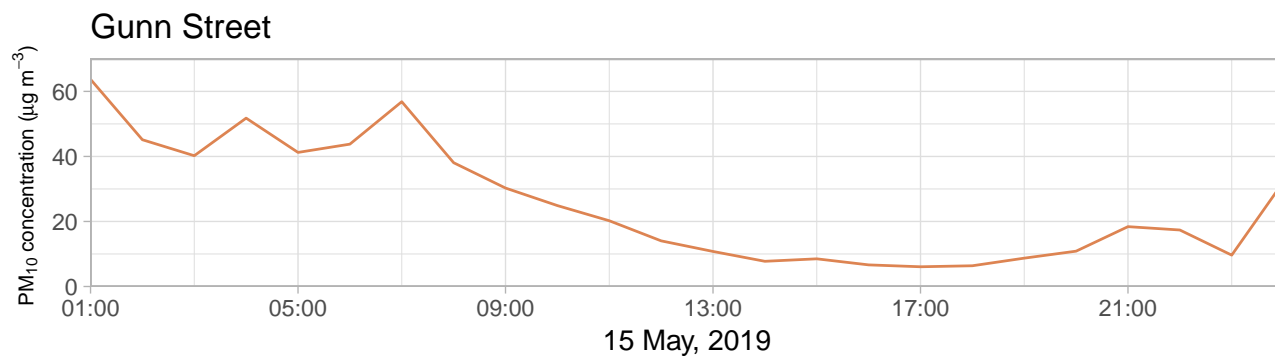
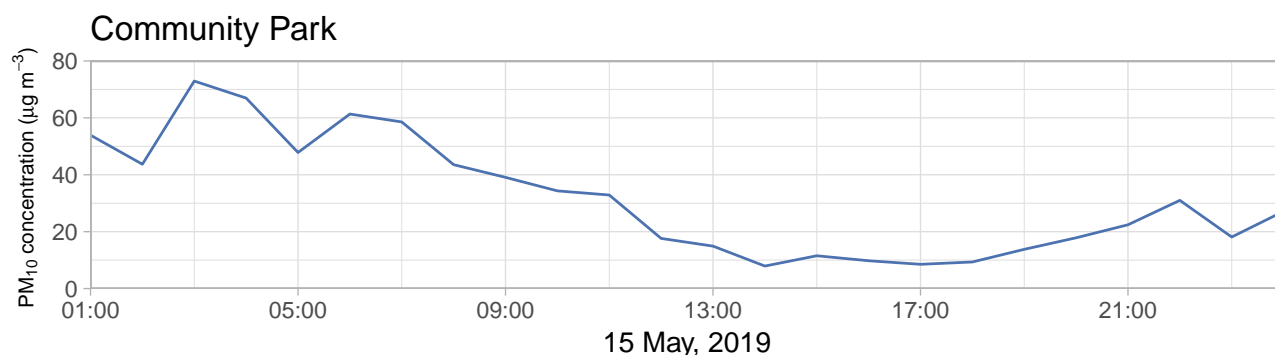
## Community Monitoring

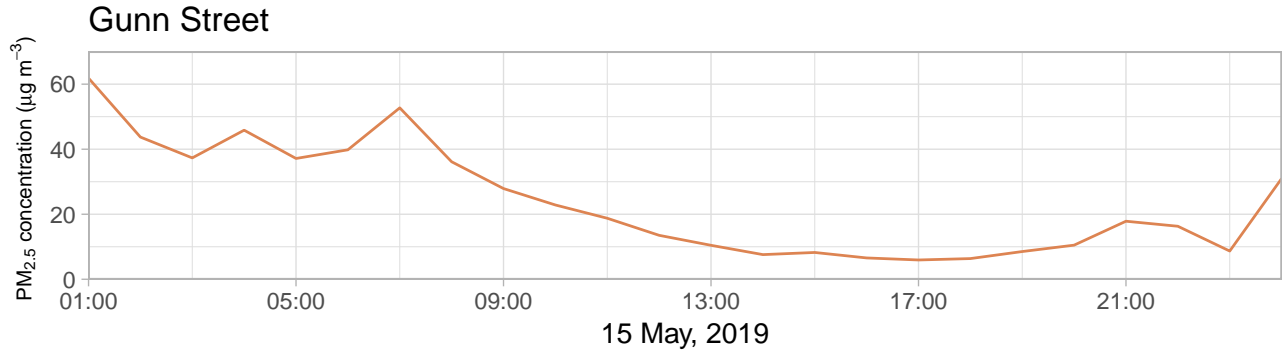
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM<sub>10</sub> and PM<sub>2.5</sub> measured at each monitor, according to the average wind direction at the time of monitoring.

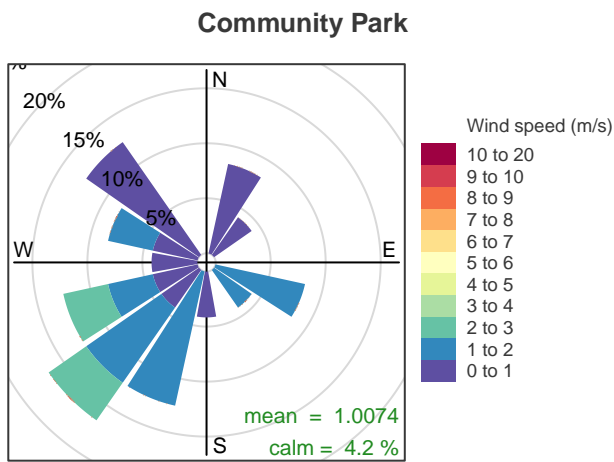
Monitoring Location	Direction	PM <sub>10</sub> proportion (%)	PM <sub>2.5</sub> proportion (%)
Community Park	From direction of ABC (WD < 180)	31	31
Community Park	From other direction (WD > 180)	69	69
Gunn Street	From direction of ABC (WD < 180)	24	24
Gunn Street	From other direction (WD > 180)	76	76

The figures below show the time series of 1-hour average measurements throughout 15 May, 2019

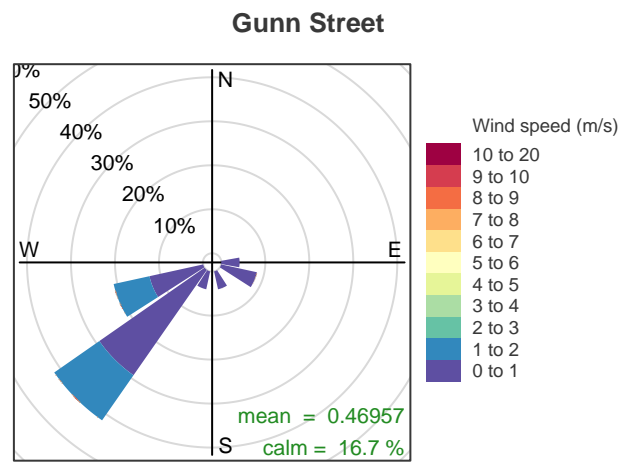




The figures below show wind roses summarising the period 15 May, 2019.



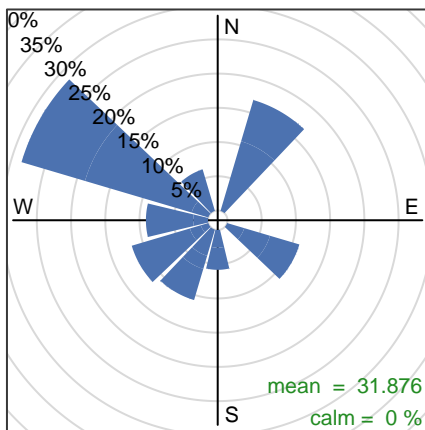
Frequency of counts by wind direction (%)



Frequency of counts by wind direction (%)

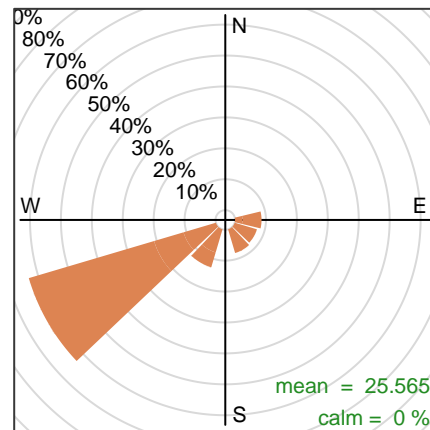
The figures below show dust roses summarising the period 15 May, 2019

### Community Park – PM<sub>10</sub>



Proportion contribution to the mean (%)

### Gunn Street – PM<sub>10</sub>



Proportion contribution to the mean (%)

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*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.*