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QUARTERLY GROUND LEVEL PARTICULATE MONITORING REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 31/07/24 - Quarter 2, 2024 EPA Licence 1126: Ground Level Particulate Monitoring and Reporting plan (U - 1555)

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 31 July 2024

Version Number: 1



Report Submitted by: Advisor Environment (C&L (SA/NSW/NT)

Glossary

Term	Definition
μg/m³	micrograms per cubic metre
μm	micrometre
°C	degrees Celsius
m	metre
m^3	cubic metre
m³/s	cubic metres per second
Nomenclature	Definition
PM ₁₀	Particulate matter with a diameter less than 10 micrometres
$PM_{2.5}$	Particulate matter with a diameter less than 2.5 micrometres
24 hour average	Calendar day (midnight to midnight)
Abbreviations	Definition
ABC Air EPP GLPMRP EPA	Adelaide Brighton Cement South Australian Environment Protection (Air Quality) Policy 2016 ABC's Ground Level Particulate Monitoring and Reporting Plan Environment Protection Authority

Sampling Locations

• Map showing sampling locations, major infrastructure, sensitive environmental receptors, and north arrow



Sampling locations are indicated by colour-coded dots on the above map.

NB: Four sampling points are located on the Birkenhead Works site; the other sampling points are in the community (Community Park).

The property (not owned by ABC), on which the Gunn Street Monitor was located, was sold for redevelopment and was no longer available for use. As a consequence the monitor was removed on 28 June 2022. A new monitoring location is currently being determined.

Monitoring Objective

To provide monitoring and reporting of ground level particulate concentrations (PM10 and PM2.5), from a network of monitors located within and external to the site premises.

- Monitoring data for each monitor (on site and off site) shall include:
 - Monthly wind rose showing the distribution of wind directions
 - o Monthly dust rose showing the distribution of PM₁₀ concentration
 - o Monthly dust rose showing the distribution of PM_{2.5} concentration
 - o Monitoring data for each ABC monitor (on site and off site) including EPA monitor (Le Fevre 1) for comparison as follows:
 - Monthly time series graph of 24-hour average PM₁₀ concentration reported against the Air EPP for PM₁₀ of 50 micrograms per cubic metre (24-hour average).
 - Monthly time series graph of 24-hour average PM_{2.5} concentration reported against the Air EPP for PM_{2.5} of 25 micrograms per cubic metre (24-hour average).

Monitoring Plan

This monitoring report has been prepared in compliance with the Ground Level Particulate Monitoring and Reporting Plan (GLPMRP), approved 16 October 2023 by the South Australian EPA.

The Plan is available on the ABC Birkenhead Community Website: https://adelaidebrightoncommunity.com.au/

Monitoring data for each ABC monitor

Monitoring reports for April, May and June, provide for each monitor the following:

- PM_{2.5}, PM₁₀, 24-hour averages
- PM_{2.5}, PM₁₀ monthly wind & dust rose

The property (not owned by ABC), on which the Gunn Street Monitor was located, was sold for redevelopment and was no longer available for use. As a consequence the monitor was removed on 28 June 2022. A new monitoring location is currently being determined.

Mains power to Northern Grounds Monitor was restored 3.30pm 15 April after it was disconnected 8.30am, 12 April.

Insufficient data was collected for a valid 24 hr average (loss of six hours data collection), on Block 9 (solar powered monitor), when the monitoring station battery voltage dropped below 11.3 V, between 2am – 8am on the 6th to 9th April. The issue was rectified by replacing the battery.

There were two 24-hour exceedances of the $PM_{2.5}$ Air (EPP) criteria on ambient particulate monitor in the community park, during this reporting period. These exceedances ocurred on the 10 May and 12 May, and are summarised in the tables below: The full reports are included in the appendix

Table 1: 10 May 2024

Monitoring Location	Pollutant	24-hour average (μg/m³)	EPP Air Criterion (μg/m³)
Community Park	PM ₁₀	27.7	50
	PM _{2.5}	26.8	25
Gunn Street	PM ₁₀		50
	PM _{2.5}		25

Comment:

The 24-hour average PM2.5 concentration measured at Community Park of 26.8 μ g/m3 exceeded the EPP Air criterion of 25.0 μ g/m3. All ABC monitors (on site and off site), showed similar particulate levels and trends. This indicates the particulate level was from a localised air shed condition, rather than related to any specific site activity. Low wind speeds and overnight temperatures resulted in increased particulate levels overnight / early morning, which dropped during the day as wind speed and temperatures increased. PM2.5 particulate is commonly produced from combustion sources (vehicles/ heaters). PM2.5 particulate levels/trends are indicative of low night time temperatures, low wind speeds and reduced reduced air shed flushing.

Table 2: 12 May 2024

Monitoring Location	Pollutant	24-hour average ($\mu \mathrm{g/m^3}$)	EPP Air Criterion (μ g/m ³)
Community Park	PM ₁₀	30.3	50
	$PM_{2.5}$	29.7	25
Gunn Street	PM_{10}		50
	PM _{2.5}		25

Comment:

The 24-hour average PM2.5 concentration measured at Community Park of 29.7 µg/m3 exceeded the EPP Air criterion of 25.0 µg/m3. All ABC monitors (on site and off site), showed similar particulate levels and trends. This indicates the particulate level was from a localised air shed condition, rather than related to any specific site activity. Also the wind movement for this 24 hr period was predominantly (75% of the day) blowing towards ABC. Low wind speeds and overnight temperatures resulted in increased particulate levels overnight / early morning, which dropped during the day as wind speed and temperatures increased. PM2.5 particulate is commonly produced from combustion sources (vehicles/ heaters). PM2.5 particulate levels/trends are indicative of low night time temperatures, low wind speeds and reduced reduced air shed flushing.

Appendix	April, May and June Monitoring Reports
	10 May PM2.5 Exceedance Report
	12 May PM2.5 Exceedance Report

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Ionitoring Summary (01 Apr, 2024 - 30 Apr, 2024)					
Public Monitors		1			
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EPA Monitoring		12			

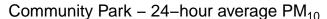
Monitoring Summary (01 Apr., 2024 - 30 Apr., 2024)

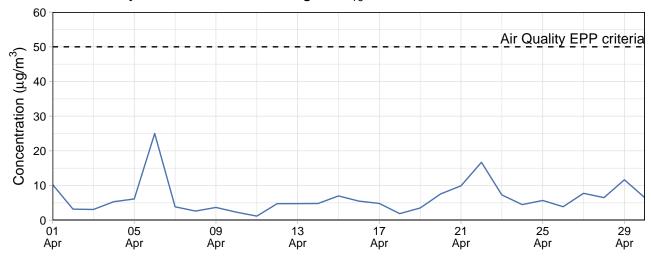
Public Monitors

Table 1: Summary of 24-hour average data collected at public monitors ($\mu \mathrm{g/m^3}$)

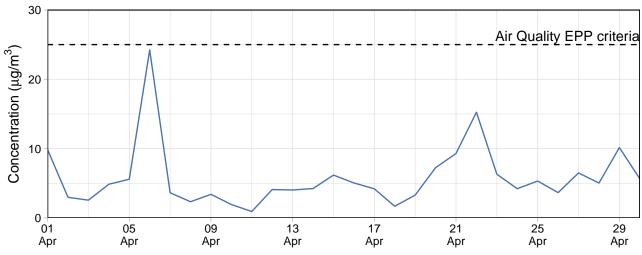
		PM	10		PM _{2.5}			
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Community Park	1.2	6.4	25	100	0.9	5.8	24.2	100

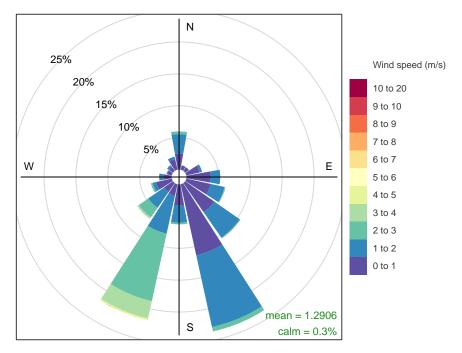
Community Park



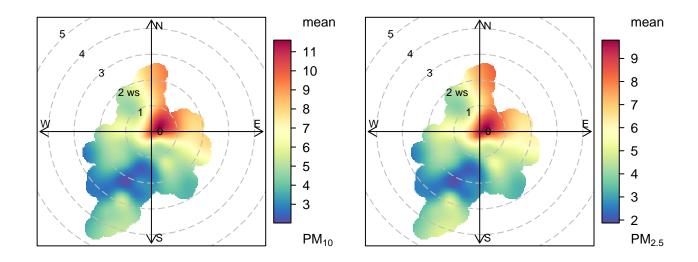


Community Park – 24–hour average PM_{2.5}





Frequency of counts by wind direction (%)



Gunn Street

No data available for the reporting period.

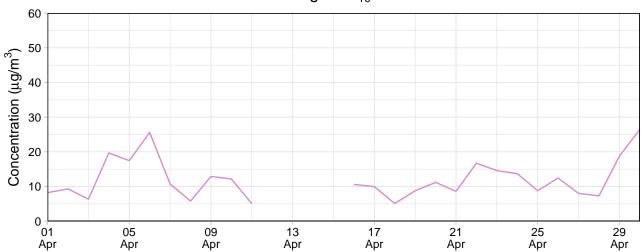
Internal Monitors

Table 2: Summary of 24-hour average data collected at internal monitors ($\mu g/m^3$)

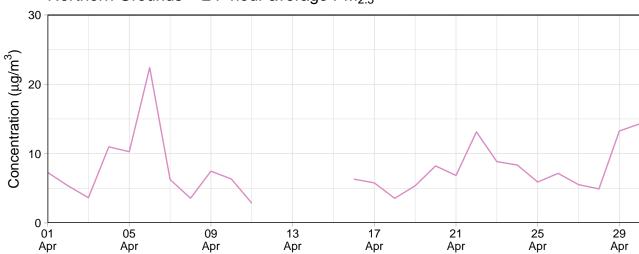
	•	PM:	10		PM _{2.5}			
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Southern Grounds	1.4	5.8	22.4	100.0	1.3	5.3	21.8	100.0
Eastern Grounds	7.2	11.4	26.3	100.0	5.1	8.8	24.7	100.0
Block 9	3.6	9.1	28.9	93.3	2.1	6.2	24.8	93.3
Northern Grounds	5.0	12.1	26.4	86.7	2.9	7.8	22.4	86.7

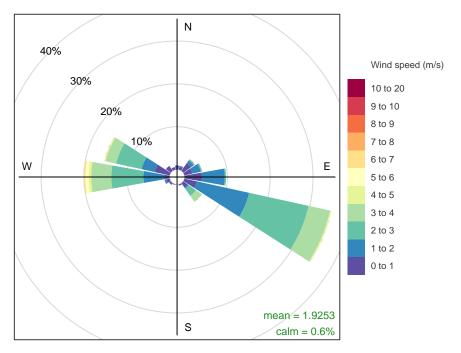
Northern Grounds

Northern Grounds – 24–hour average PM₁₀

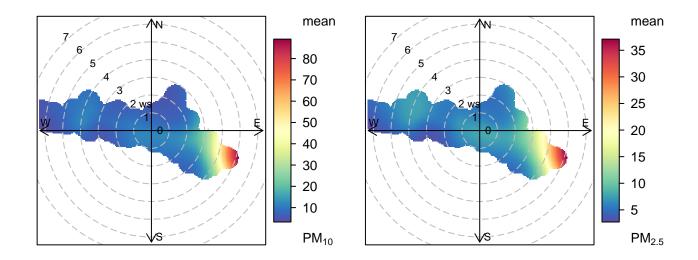


Northern Grounds – 24–hour average PM_{2.5}



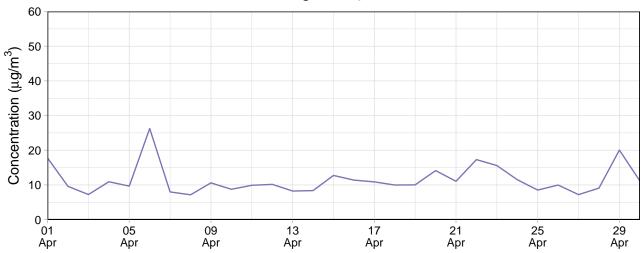


Frequency of counts by wind direction (%)

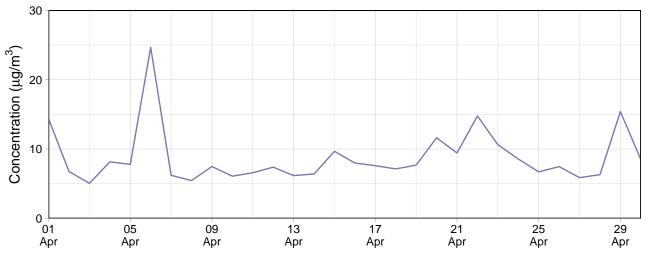


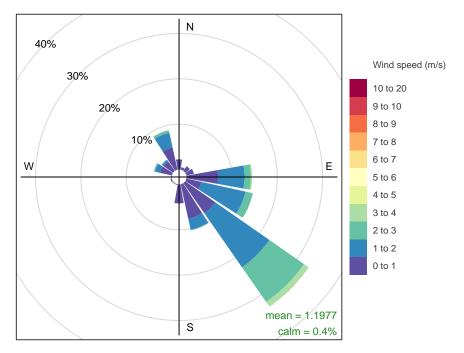
Eastern Grounds

Eastern Grounds – 24-hour average PM₁₀

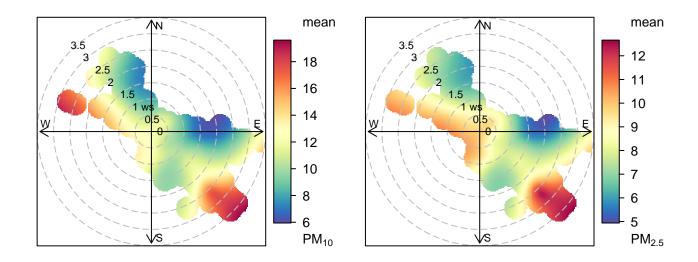


Eastern Grounds – 24–hour average PM_{2.5}



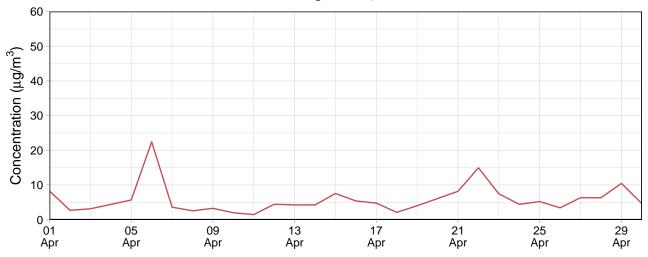


Frequency of counts by wind direction (%)

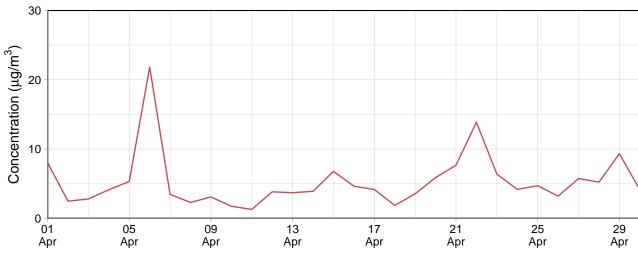


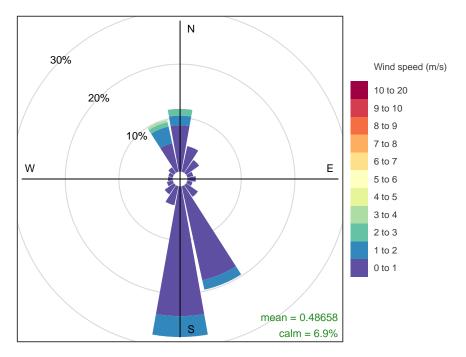
Southern Grounds

Southern Grounds – 24-hour average PM₁₀

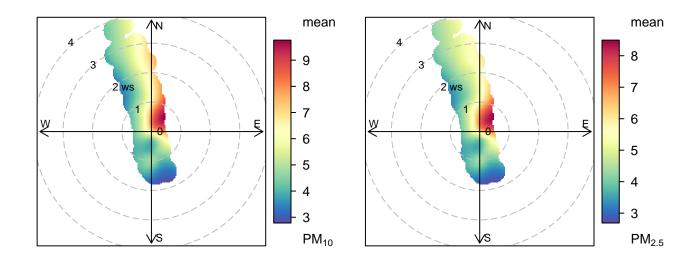


Southern Grounds – 24–hour average PM_{2.5}

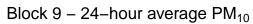


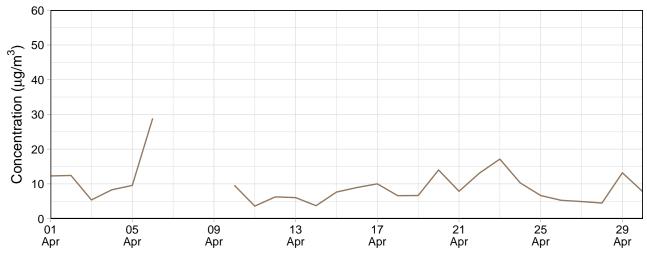


Frequency of counts by wind direction (%)

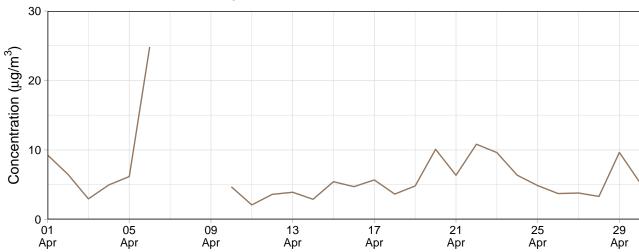


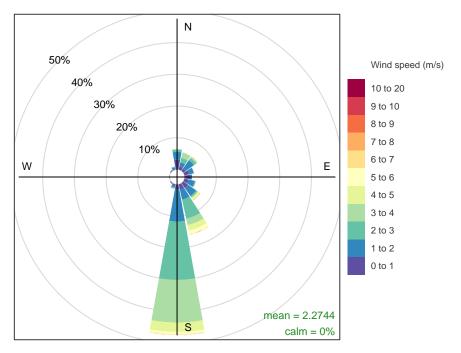
Block 9



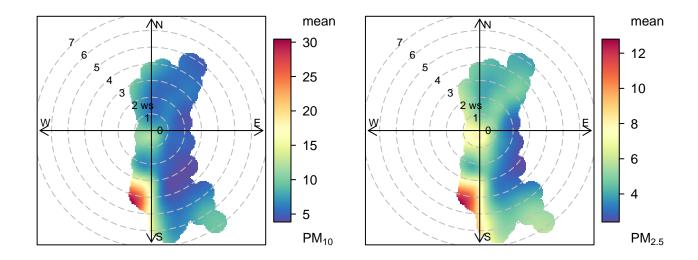


Block 9 – 24-hour average PM_{2.5}





Frequency of counts by wind direction (%)

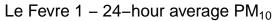


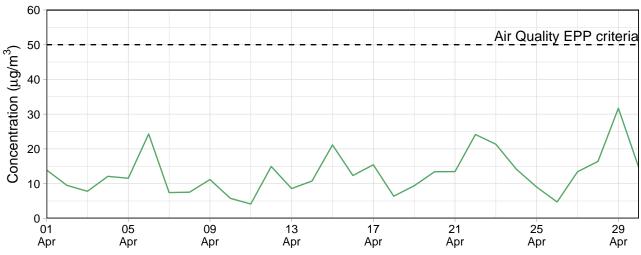
EPA Monitoring

Le Fevre 1

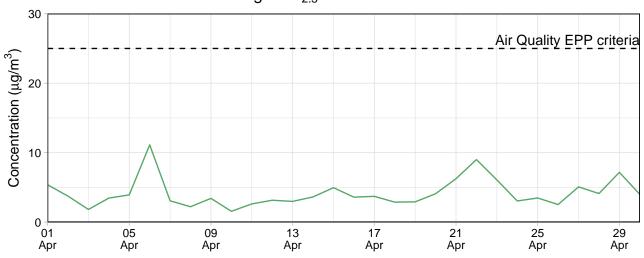
Table 3: Summary of 24-hour average data collected at EPA monitors ($\mu g/m^3$)

		PM	10		$PM_{2.5}$			
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Le Fevre 1	4.1	13	31.7	100	1.6	4.2	11.1	100





Le Fevre 1 – 24-hour average PM_{2.5}



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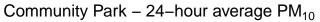
Monitoring Summary (01 May, 2024 - 31 May, 2024)

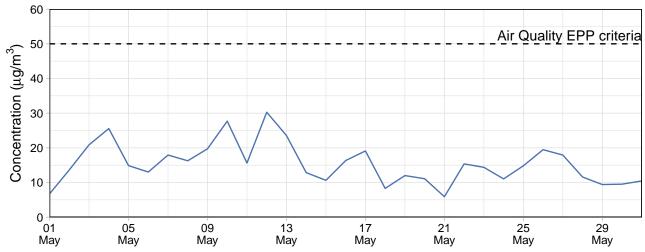
Public Monitors

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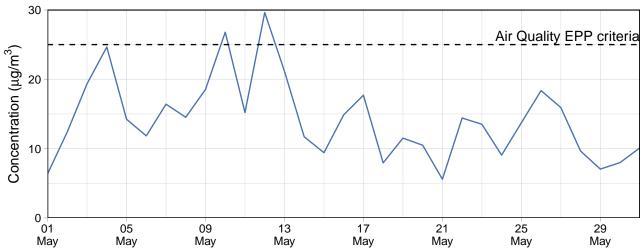
		PM	10		PM _{2.5}			
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Community Park	5.9	15.4	30.3	100	5.6	14.2	29.6	100

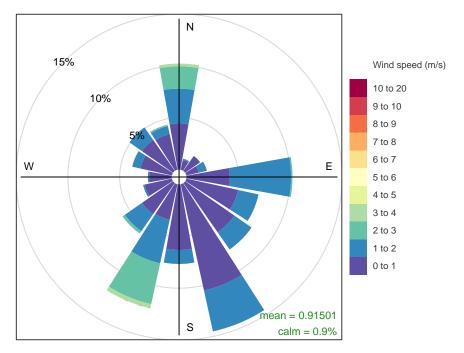
Community Park



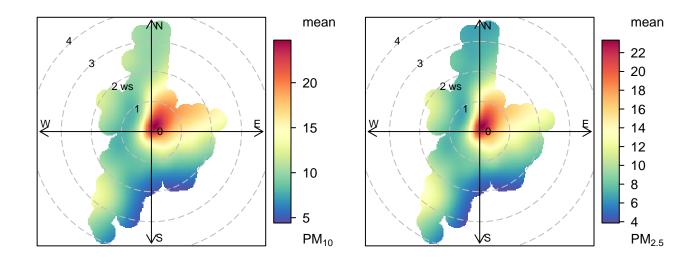


Community Park – 24-hour average PM_{2.5}





Frequency of counts by wind direction (%)



Gunn Street

No data available for the reporting period.

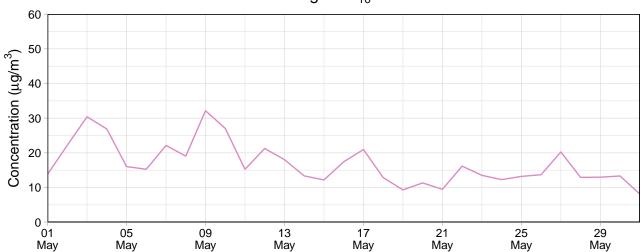
Internal Monitors

Table 2: Summary of 24-hour average data collected at internal monitors ($\mu g/m^3$)

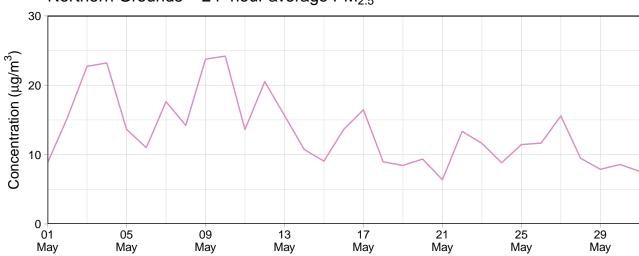
	<u> </u>	PM:	10		PM _{2.5}			
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Southern Grounds	4.8	13.6	24.1	100	4.6	12.6	23.1	100
Eastern Grounds	8.6	16.4	29.6	100	6.9	14.1	26.6	100
Block 9	4.8	13.4	28.3	100	4.2	11.3	24.2	100
Northern Grounds	8.1	16.9	32.1	100	6.4	13.3	24.2	100

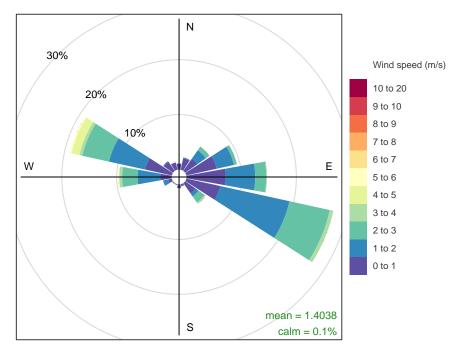
Northern Grounds

Northern Grounds – 24-hour average PM₁₀

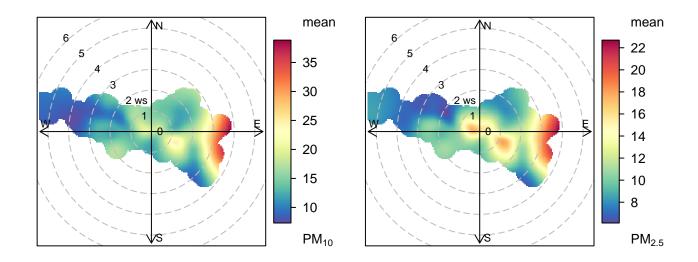


Northern Grounds – 24–hour average PM_{2.5}



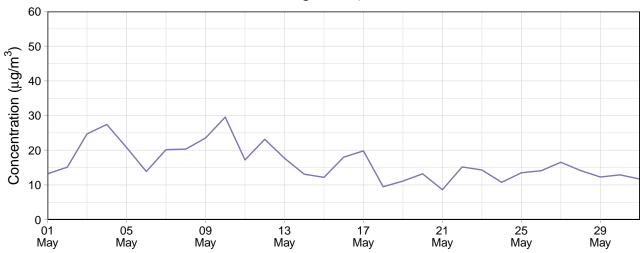


Frequency of counts by wind direction (%)

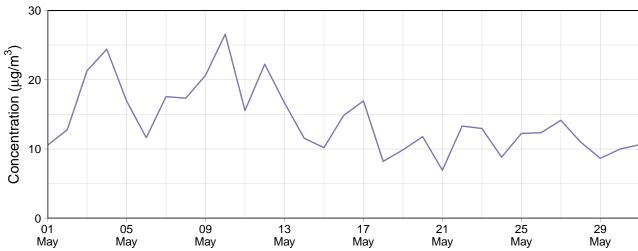


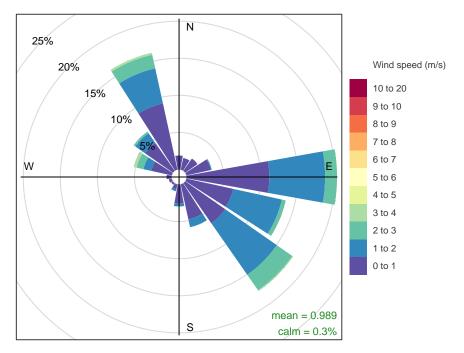
Eastern Grounds

Eastern Grounds – 24-hour average PM₁₀

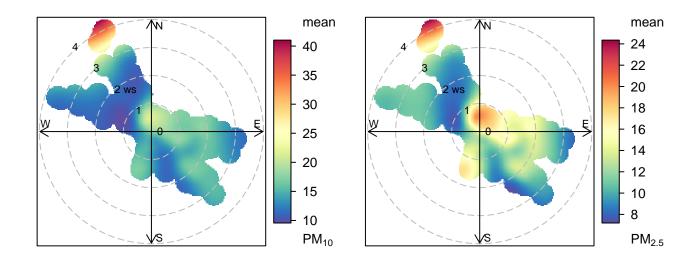


Eastern Grounds – 24-hour average PM_{2.5}



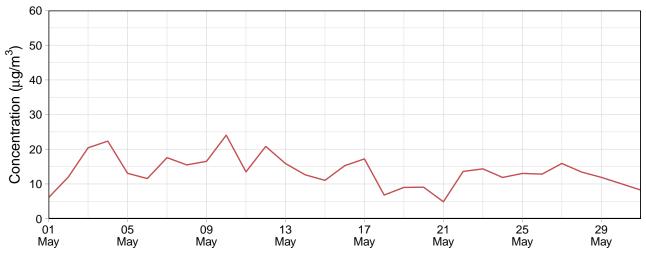


Frequency of counts by wind direction (%)

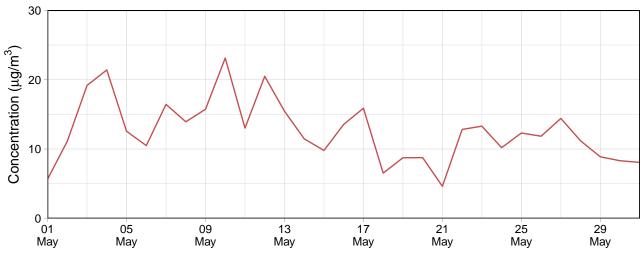


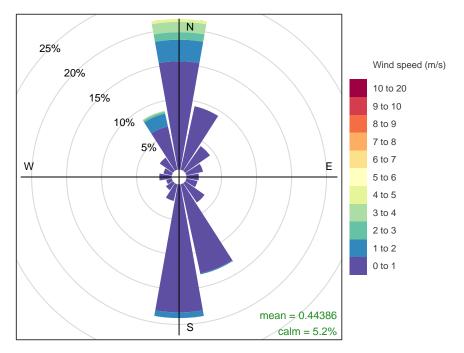
Southern Grounds

Southern Grounds – 24–hour average PM₁₀

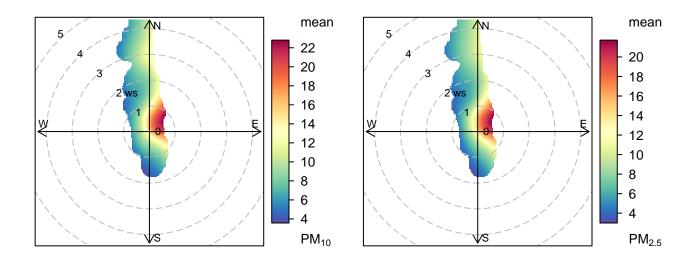


Southern Grounds – 24–hour average PM_{2.5}



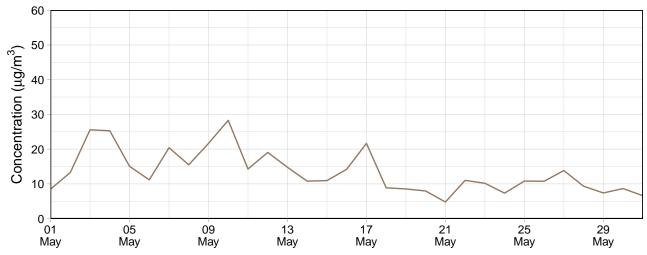


Frequency of counts by wind direction (%)

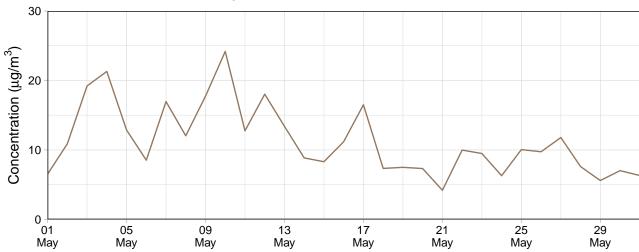


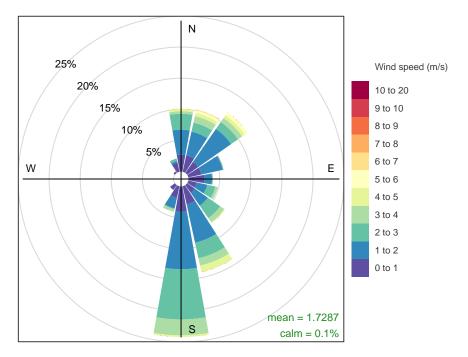
Block 9



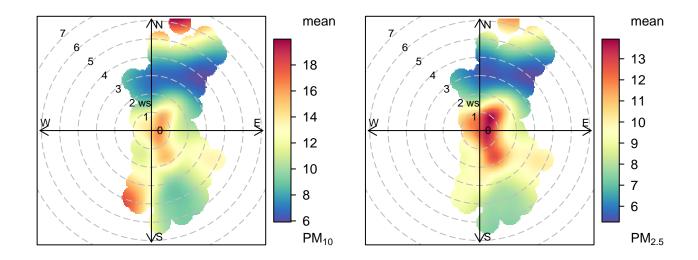


Block 9 – 24-hour average PM_{2.5}





Frequency of counts by wind direction (%)

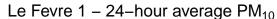


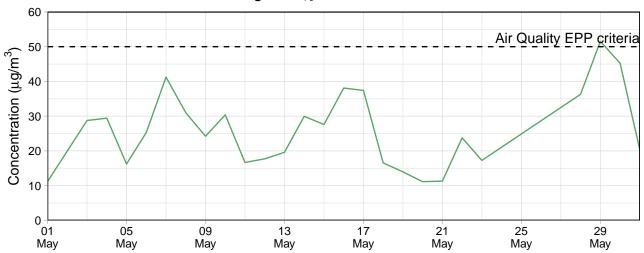
EPA Monitoring

Le Fevre 1

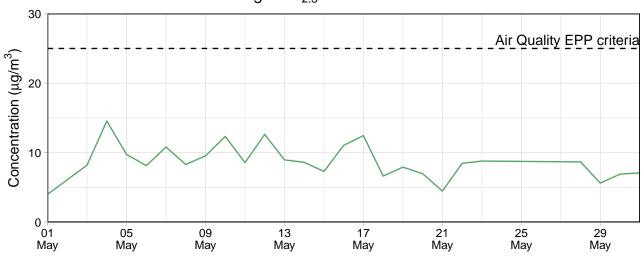
Table 3: Summary of 24-hour average data collected at EPA monitors ($\mu g/m^3$)

		PM	10			PM ₂	1.5	
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Le Fevre 1	11.1	25.8	51.5	100	4	8.7	14.5	100





Le Fevre 1 – 24-hour average PM_{2.5}



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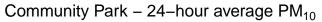
Monitoring Summary (01 Jun, 2024 - 30 Jun, 2024)

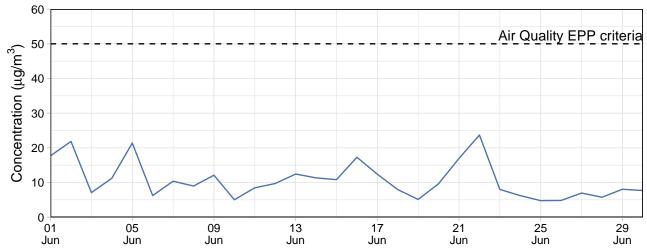
Public Monitors

Table 1: Summary of 24-hour average data collected at public monitors ($\mu \mathrm{g/m^3}$)

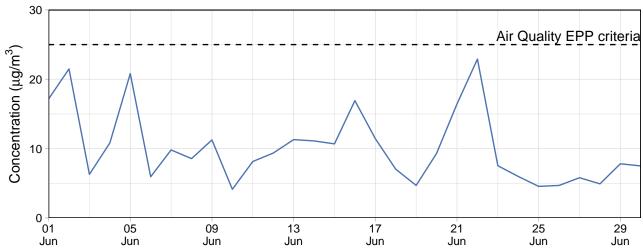
	PM ₁₀				$PM_{2.5}$				
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)	
Community Park	4.8	10.7	23.7	100	4.1	10.1	22.9	100	

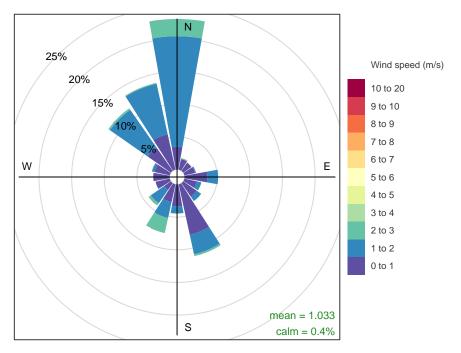
Community Park



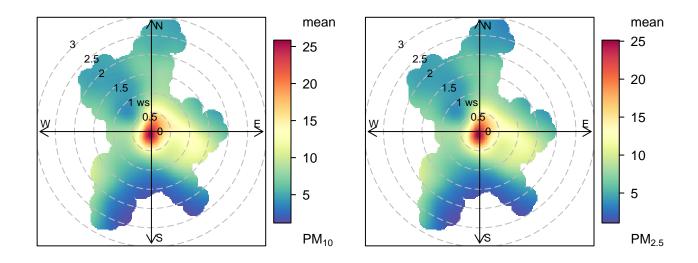


Community Park – 24–hour average PM_{2.5}





Frequency of counts by wind direction (%)



Gunn Street

No data available for the reporting period.

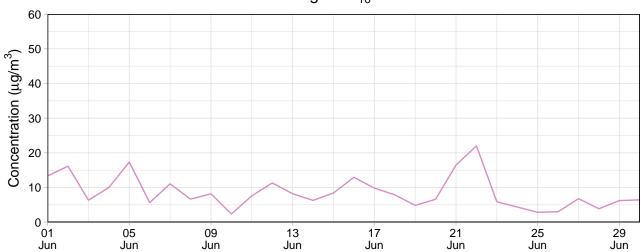
Internal Monitors

Table 2: Summary of 24-hour average data collected at internal monitors ($\mu g/m^3$)

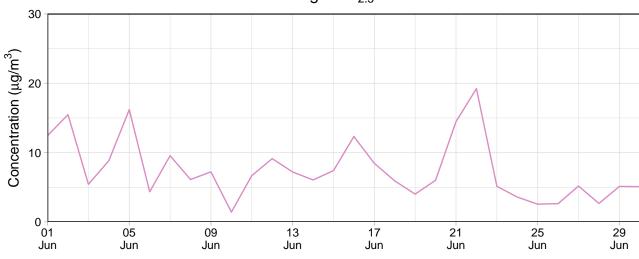
	PM ₁₀				PM _{2.5}				
Site	Min	Min Avg Ma		Capture (%)	Min	Avg	Max	Capture (%)	
Southern Grounds	3.6	8.7	20.4	100	3.4	8.2	19.7	100	
Eastern Grounds	3.9	10.1	22.7	100	3.6	9.1	21.3	100	
Block 9	2.1	6.6	16.0	100	2.0	6.2	15.4	100	
Northern Grounds	2.4	8.6	22.0	100	1.4	7.5	19.2	100	

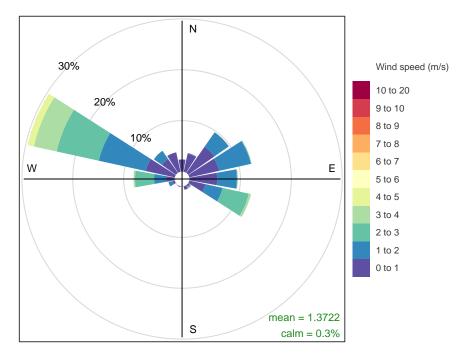
Northern Grounds

Northern Grounds – 24-hour average PM₁₀

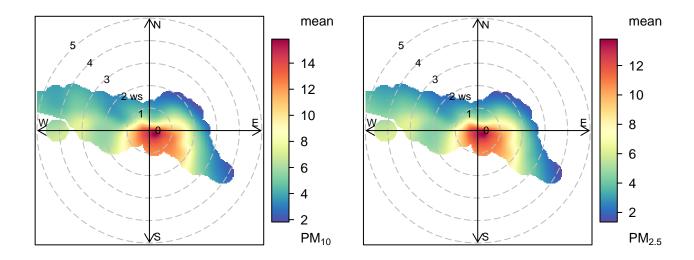


Northern Grounds – 24–hour average PM_{2.5}



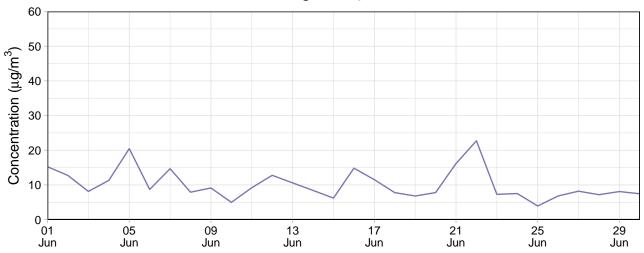


Frequency of counts by wind direction (%)

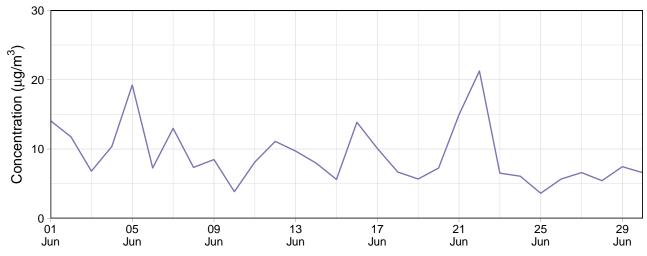


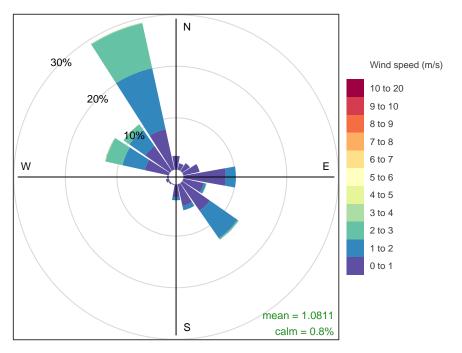
Eastern Grounds

Eastern Grounds – 24-hour average PM₁₀

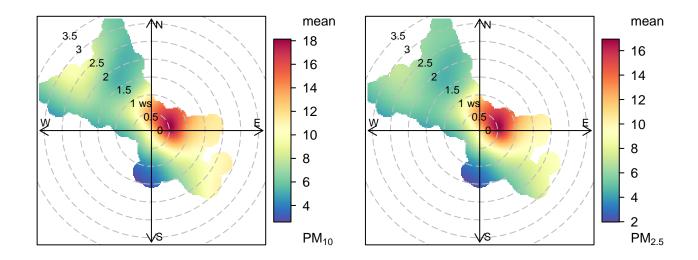


Eastern Grounds – 24–hour average PM_{2.5}



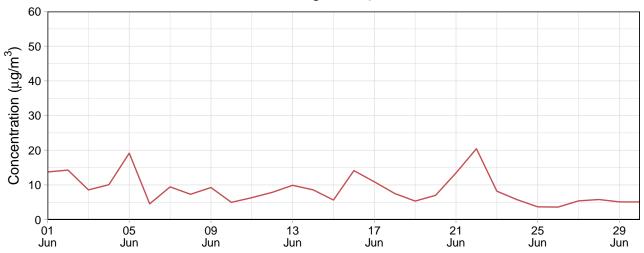


Frequency of counts by wind direction (%)

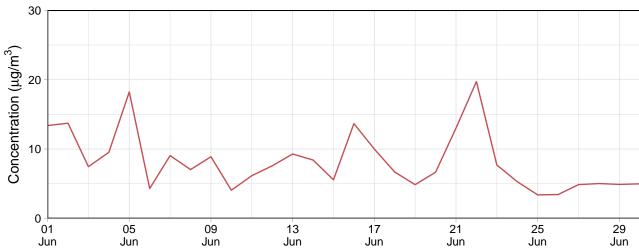


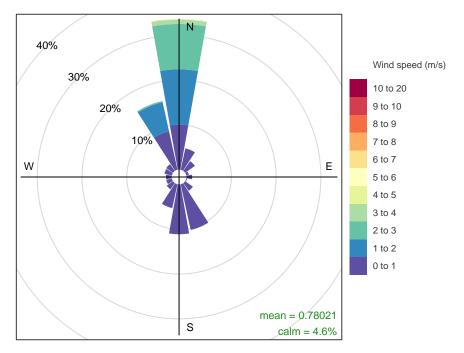
Southern Grounds

Southern Grounds – 24–hour average PM_{10}

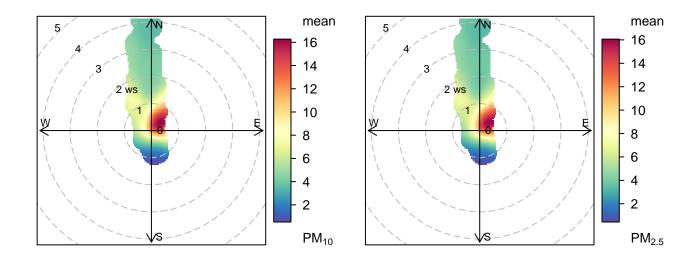


Southern Grounds – 24–hour average PM_{2.5}

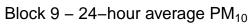


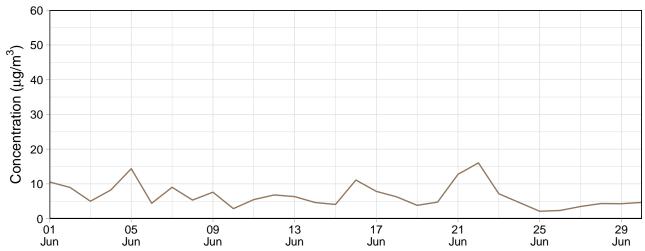


Frequency of counts by wind direction (%)

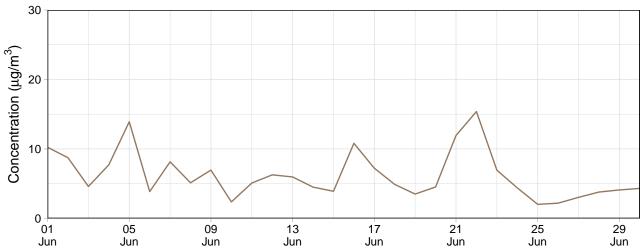


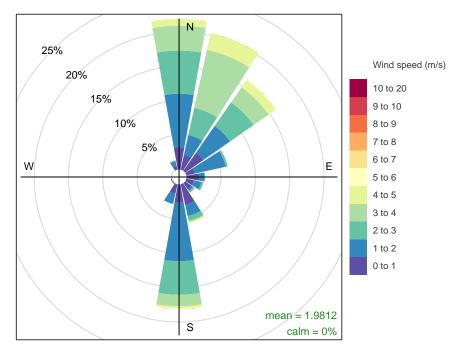
Block 9



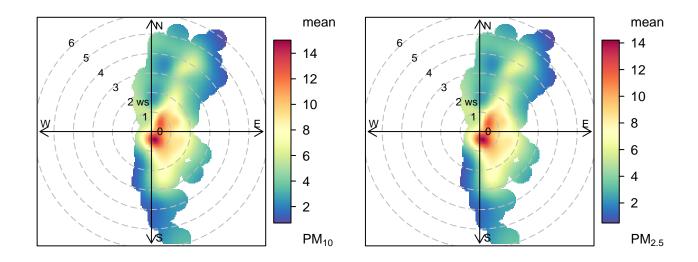


Block 9 – 24-hour average PM_{2.5}





Frequency of counts by wind direction (%)

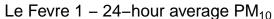


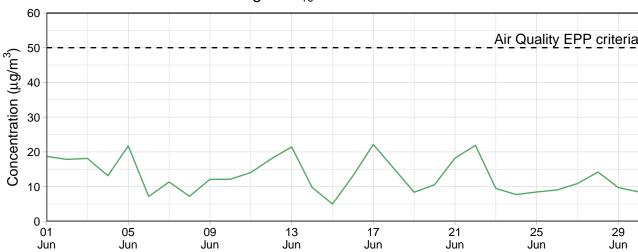
EPA Monitoring

Le Fevre 1

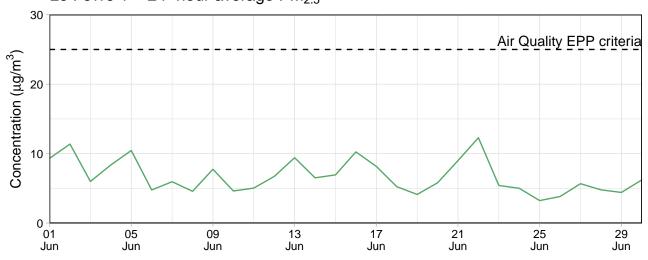
Table 3: Summary of 24-hour average data collected at EPA monitors ($\mu g/m^3$)

	PM_{10}		PM _{2.5}					
Site	Min	Avg	Max	Capture (%)	Min	Avg	Max	Capture (%)
Le Fevre 1	5	13.2	22.1	100	3.2	6.7	12.3	100





Le Fevre 1 – 24-hour average PM_{2.5}



Ground Level Particulate Notification Report - 10 May, 2024

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 10 May, 2024 is shown in Table 1 below. The data indicates that:

■ The 24-hour average PM_{2.5} concentration measured at Community Park of 26.8 $\mu g/m^3$ exceeded the EPP Air criterion of 25 $\mu g/m^3$

Table 1: Monitoring Summary

Monitoring Location	Pollutant	24-hour average ($\mu \mathrm{g/m^3}$)	EPP Air Criterion ($\mu g/m^3$)
Community Park	PM ₁₀	27.7	50
	$PM_{2.5}$	26.8	25
Gunn Street	PM_{10}		50
	$PM_{2.5}$		25

The 24-hour average PM2.5 concentration measured at Community Park of $26.8~\mu g/m3$ exceeded the EPP Air criterion of $25.0~\mu g/m3$. All ABC monitors (on site and off site), showed similar particulate levels and trends. This indicates the particulate level was from a localised air shed condition, rather than related to any specific site activity. Low wind speeds and overnight temperatures resulted in increased particulate levels overnight / early morning, which dropped during the day as wind speed and temperatures increased. PM2.5 particulate is commonly produced from combustion sources (vehicles/ heaters). PM2.5 particulate levels/trends are indicative of low night time temperatures, low wind speeds and reduced reduced air shed flushing.

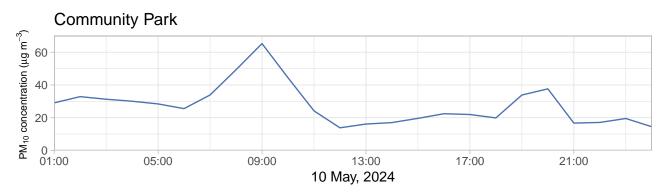
Community Monitoring

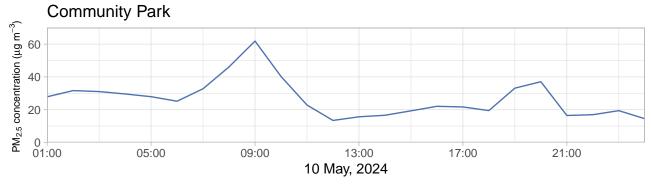
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM_{10} 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	From direction of ABC (WD $<$ 180)	40	39
Community Park	From other direction (WD > 180)	60	61

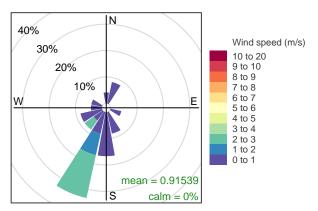
The figures below show the time series of 1-hour average measurements throughout 10 May, 2024





The figures below show wind roses summarising the period 10 May, 2024.

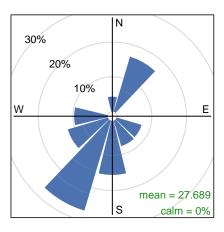




Frequency of counts by wind direction (%)

The figures below show dust roses summarising the period 10 May, 2024

Community Park – PM₁₀



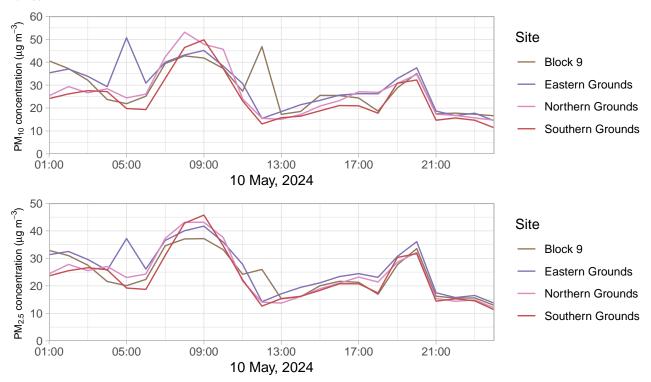
Proportion contribution to the mean (%)

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.

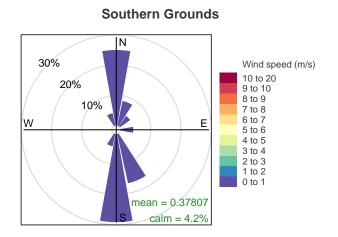
Monitoring Location	$PM_{10} \; (\mu g/m^3)$	$PM_{2.5} (\mu g/m^3)$
Southern Grounds	24	23
Eastern Grounds	30	27
Block 9	28	24
Northern Grounds	27	24

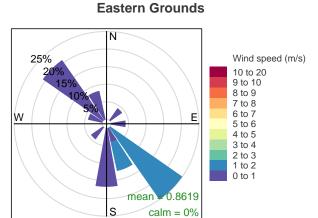
The figure below shows the time series of 1-hour average measurements throughout 10 May, 2024 for each onsite monitor.



The figures below show wind and dust roses summarising the period 10 May, 2024 for each onsite monitor.

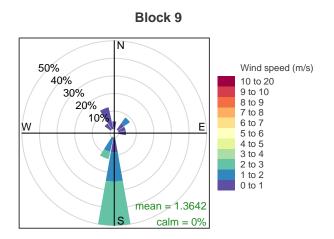
4

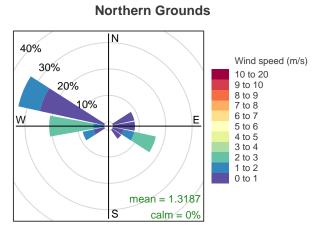




Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)



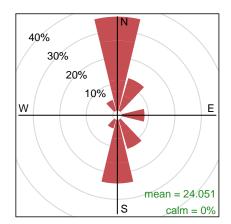


Frequency of counts by wind direction (%)

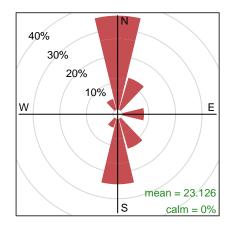
Frequency of counts by wind direction (%)

5

Southern Grounds - PM₁₀

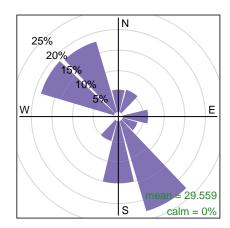


Southern Grounds – $PM_{2.5}$



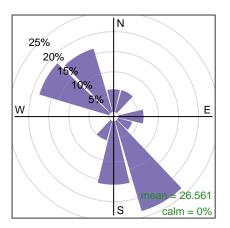
Proportion contribution to the mean (%)

Eastern Grounds - PM₁₀



Proportion contribution to the mean (%)

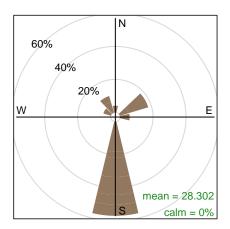
Eastern Grounds - PM_{2.5}



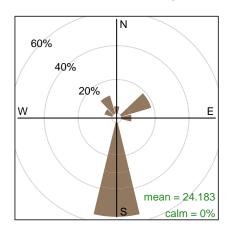
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 - PM₁₀

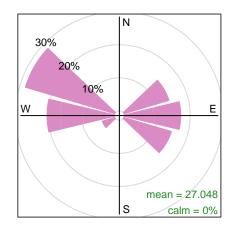


Block 9 - PM_{2.5}



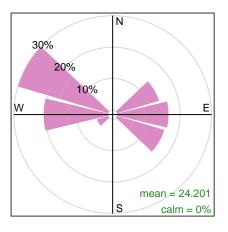
Proportion contribution to the mean (%)

Northern Grounds - PM₁₀



Proportion contribution to the mean (%)

Northern Grounds - PM_{2.5}



Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

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.

Ground Level Particulate Notification Report - 12 May, 2024

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 12 May, 2024 is shown in Table 1 below. The data indicates that:

■ The 24-hour average PM_{2.5} concentration measured at Community Park of 29.7 μ g/m³ exceeded the EPP Air criterion of 25 μ g/m³

Table 1: Monitoring Summary

Monitoring Location	Pollutant	24-hour average ($\mu \mathrm{g/m^3}$)	EPP Air Criterion ($\mu g/m^3$)
Community Park	PM ₁₀	30.3	50
	$PM_{2.5}$	29.7	25
Gunn Street	PM_{10}		50
	$PM_{2.5}$		25

The 24-hour average PM2.5 concentration measured at Community Park of $29.7~\mu g/m3$ exceeded the EPP Air criterion of $25.0~\mu g/m3$. All ABC monitors (on site and off site), showed similar particulate levels and trends. This indicates the particulate level was from a localised air shed condition, rather than related to any specific site activity. Also the wind movement for this 24 hr period was predominantly (75% of the day) blowing towards ABC. Low wind speeds and overnight temperatures resulted in increased particulate levels overnight / early morning, which dropped during the day as wind speed and temperatures increased. PM2.5 particulate is commonly produced from combustion sources (vehicles/ heaters). PM2.5 particulate levels/trends are indicative of low night time temperatures, low wind speeds and reduced reduced air shed flushing.

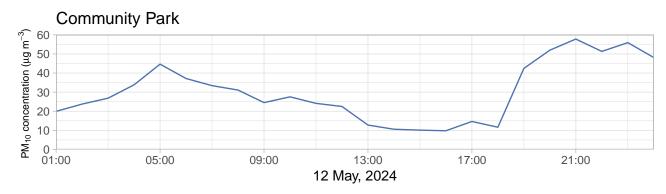
Community Monitoring

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

The table below shows the proportion of PM_{10} and $PM_{2.5}$ measured at each monitor, according to the average wind direction at the time of monitoring.

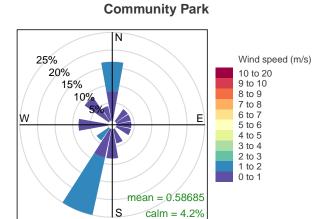
Monitoring Location	Direction	PM ₁₀ proportion (%)	PM _{2.5} proportion (%)
Community Park	From direction of ABC (WD $<$ 180)	25	25
Community Park	From other direction (WD > 180)	75	75

The figures below show the time series of 1-hour average measurements throughout 12 May, 2024





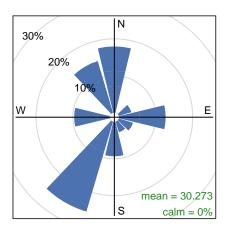
The figures below show wind roses summarising the period 12 May, 2024.



Frequency of counts by wind direction (%)

The figures below show dust roses summarising the period 12 May, 2024

Community Park - PM₁₀



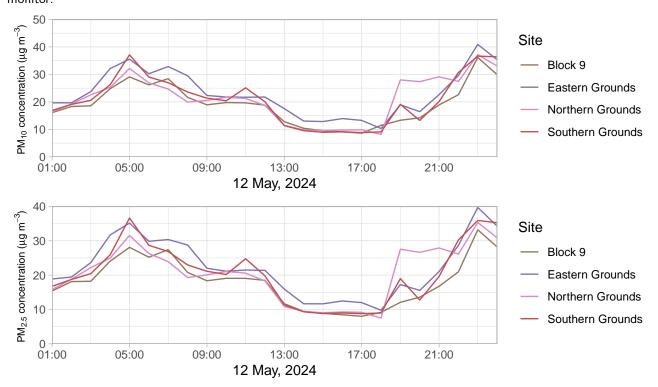
Proportion contribution to the mean (%)

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	$PM_{10} \left(\mu g/m^3\right)$	$PM_{2.5} (\mu g/m^3)$
Southern Grounds	21	20
Eastern Grounds	23	22
Block 9	19	18
Northern Grounds	21	21

The figure below shows the time series of 1-hour average measurements throughout 12 May, 2024 for each onsite monitor.



The figures below show wind and dust roses summarising the period 12 May, 2024 for each onsite monitor.

Eastern Grounds

25%

W

Southern Grounds 25% Wind speed (m/s) 20% 10 to 20 15% 9 to 10 10% 8 to 9 7 to 8 6 to 7 Ė 5 to 6 4 to 5 3 to 4 2 to 3 1 to 2 0 to 1 mean = 0.29179s calm = 0%

Ν Wind speed (m/s) 20% 10 to 20 15% 9 to 10 8 to 9 10% 7 to 8 6 to 7 5 to 6 4 to 5 3 to 4

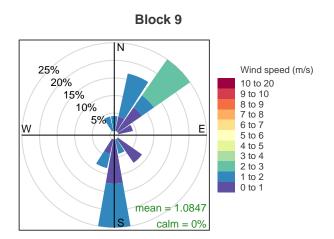
2 to 3 1 to 2

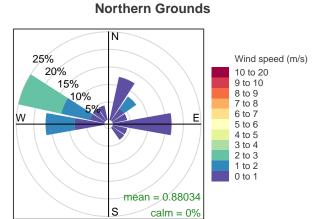
0 to 1

Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

mean = 0.62143calm = 0%

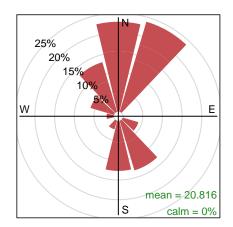




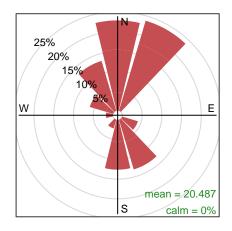
Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

Southern Grounds - PM₁₀

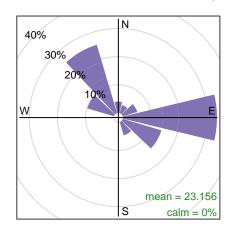


Southern Grounds - PM_{2.5}



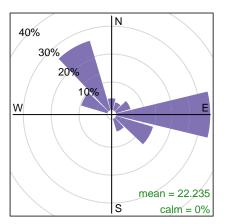
Proportion contribution to the mean (%)

Eastern Grounds - PM₁₀



Proportion contribution to the mean (%)

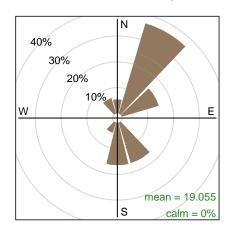
Eastern Grounds – PM_{2.5}



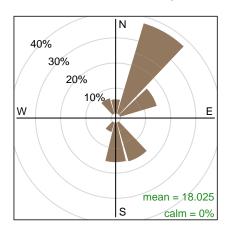
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 - PM₁₀

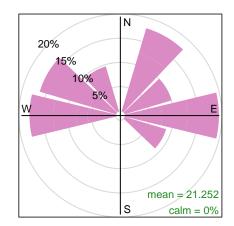


Block 9 - PM_{2.5}



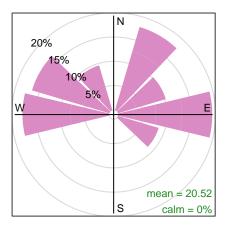
Proportion contribution to the mean (%)

Northern Grounds - PM₁₀



Proportion contribution to the mean (%)

Northern Grounds – PM_{2.5}



Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

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