



*Adelaide Brighton Cement Ltd*

ABN 96 007 870 199

## ANNUAL GROUND LEVEL PARTICULATE MONITORING REPORT FOR BIRKENHEAD WORKS

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**COMPLIANCE DATE: 31/01/21 - 2020 Annual report**

**EPA Licence 1126: Ground Level Particulate Monitoring and  
Reporting plan (U-729)**

**Licensed site: Adelaide Brighton Cement, Birkenhead Works**

**62 Elder Road, Birkenhead, SA 5015**

**Date of Submission: 29 January 2021**

**Version Number: 1**



Report Submitted by: Environmental Engineer


*I certify that I have reviewed this report and to the best of my knowledge and ability that all the information provided in this report is a true and accurate reflection of the regulatory monitoring.*

## Glossary

<b>Term</b>	<b>Definition</b>
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
$\mu\text{m}$	micrometre
$^{\circ}\text{C}$	degrees Celsius
m	metre
$\text{m}^3$	cubic metre
$\text{m}^3/\text{s}$	cubic metres per second

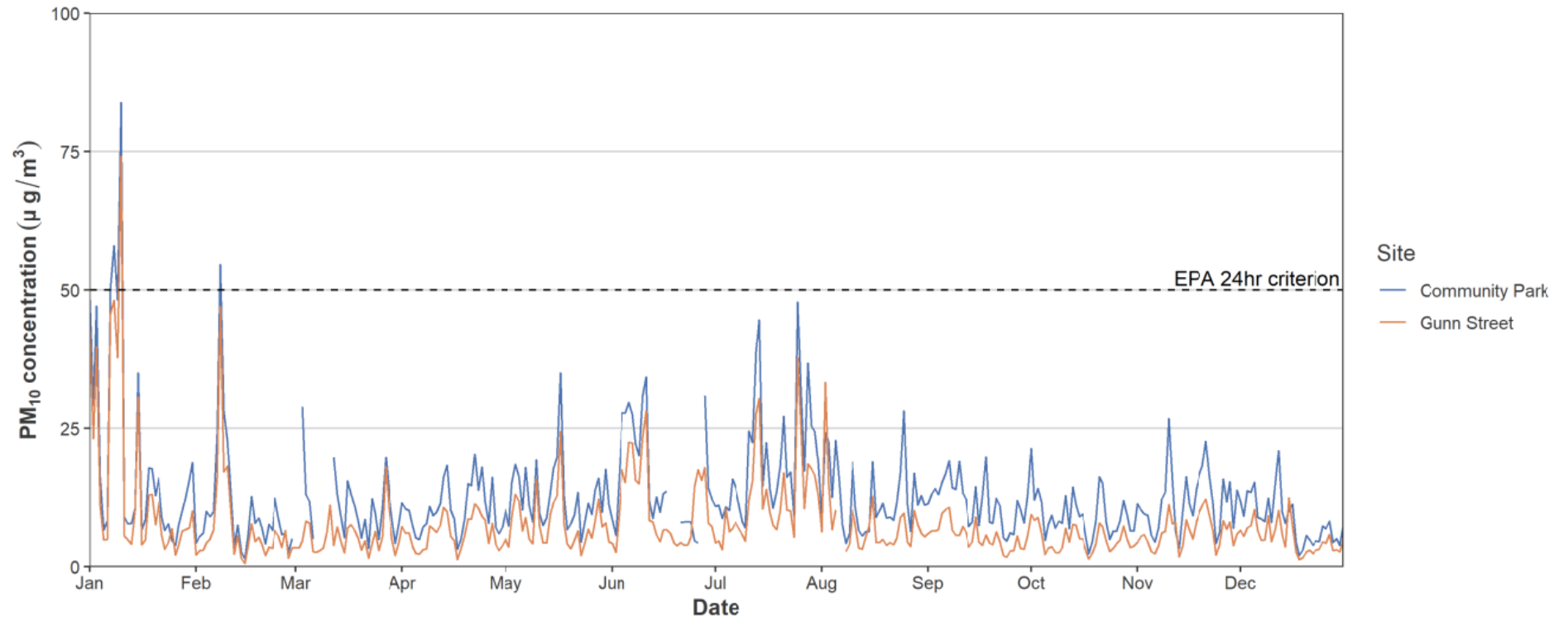
<b>Nomenclature</b>	<b>Definition</b>
PM <sub>10</sub>	Particulate matter with a diameter less than 10 micrometres
PM <sub>2.5</sub>	Particulate matter with a diameter less than 2.5 micrometres
24-hour average	Calendar day (midnight to midnight)

<b>Abbreviations</b>	<b>Definition</b>
ABC	Adelaide Brighton Cement
Air EPP	South Australian Environment Protection (Air Quality) Policy 2016
GLPMRP	ABC's Ground Level Particulate Monitoring and Reporting Plan
EPA	Environment Protection Authority

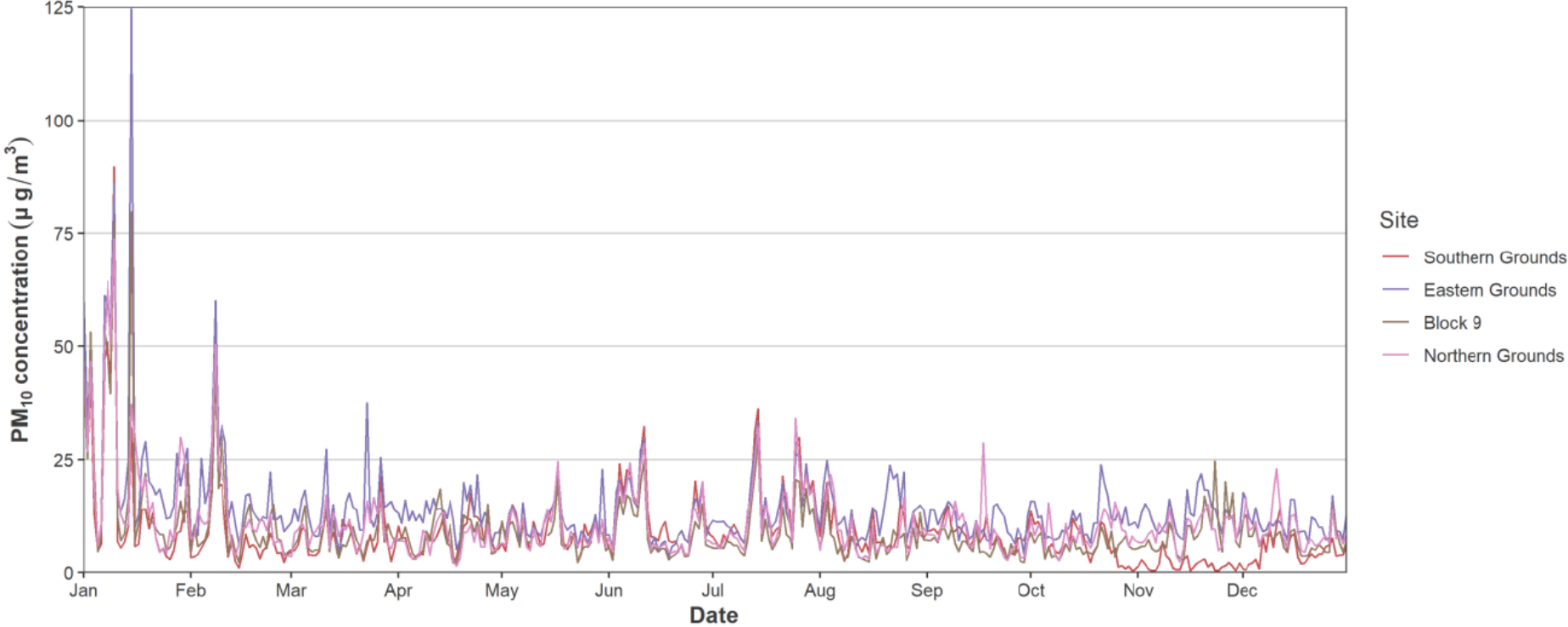
<p><b>Sampling Locations</b></p>	<ul style="list-style-type: none"> <li>• Map showing sampling locations, major infrastructure, sensitive environmental receptors, and north arrow</li> </ul>  <p>Sampling locations are indicated by colour-coded dots on the above map.  <b>NB:</b> Four sampling points are located on the Birkenhead Works site; the other sampling points are in the community (corner of Gunn/ Well streets and Community Park).</p>
<p><b>Monitoring Objective</b></p>	<p>Annual report to include the following:</p> <p>Monitoring data for each monitor (on site and off site) including EPA monitor (Le Fevre 1) for comparison as follows</p> <ul style="list-style-type: none"> <li>• Yearly time series graph of 24-hour average PM<sub>10</sub> concentrations reported against the Air EPP for PM<sub>10</sub> of 50 micrograms per cubic metre (24-hour average).</li> <li>• Yearly time series graph of 24-hour average PM<sub>2.5</sub> concentrations reported against the Air EPP for PM<sub>2.5</sub> of 25 micrograms per cubic metre (24-hour average).</li> </ul>
<p><b>Monitoring Plan</b></p>	<p>This monitoring report has been prepared in compliance with the Ground Level Particulate Monitoring and Reporting Plan, approved 18 June 2018 by the South Australian EPA.</p> <p>The Plan is available on the ABC Birkenhead Community Website:  <a href="http://www.birkenheadcommunity.com.au/">http://www.birkenheadcommunity.com.au/</a></p>
<p><b>Monitoring Data</b></p>	<p>This report contains monitoring data only. For analysis of the monitoring data, refer to the following;</p> <ul style="list-style-type: none"> <li>• 2020 Quarterly Ground Level Particulate Monitoring Reports</li> <li>• 2020 Quarterly Dust Management Reports.</li> </ul>

**PM<sub>10</sub>  
trends  
(24-hour  
Averages)**

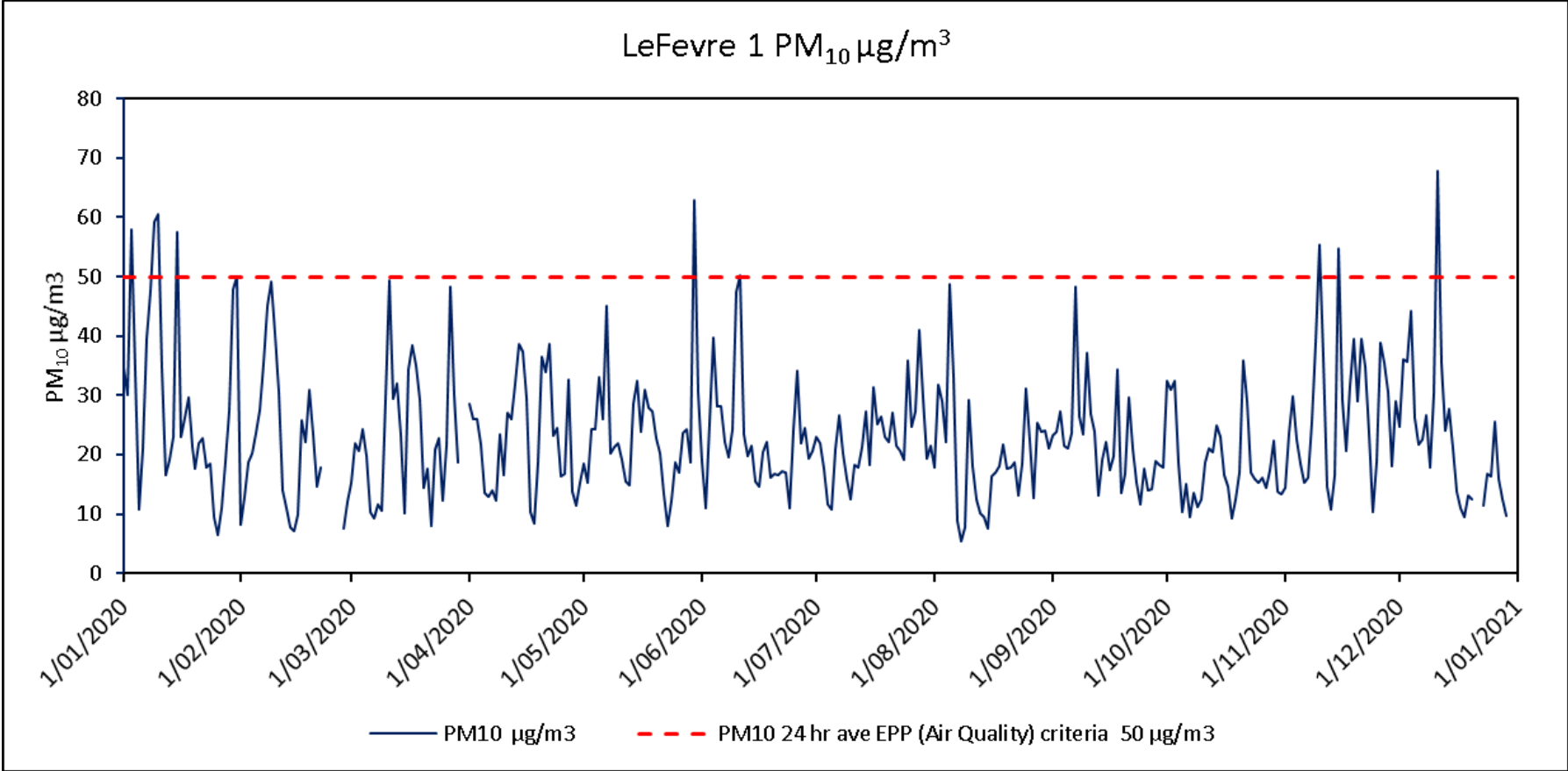
**ABC Community Monitors**



**ABC Onsite Monitors**

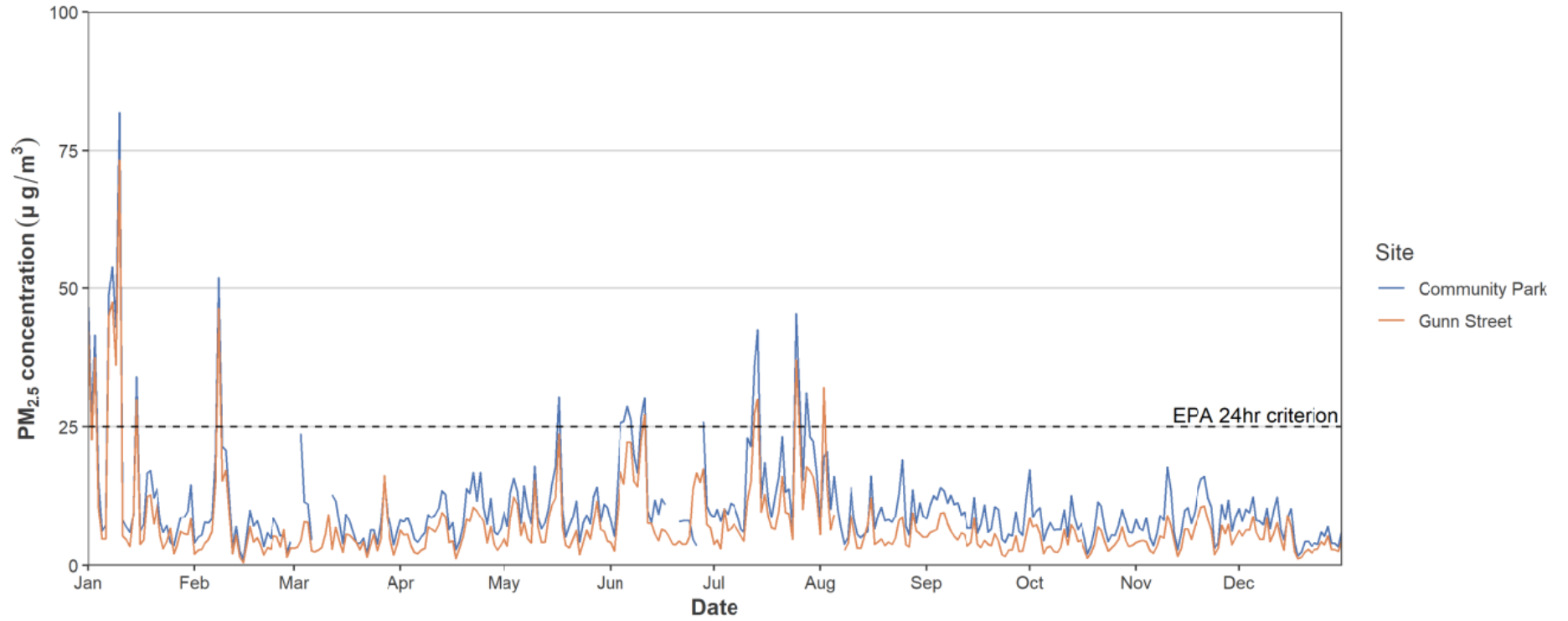


**EPA LeFevre 1 Monitor**

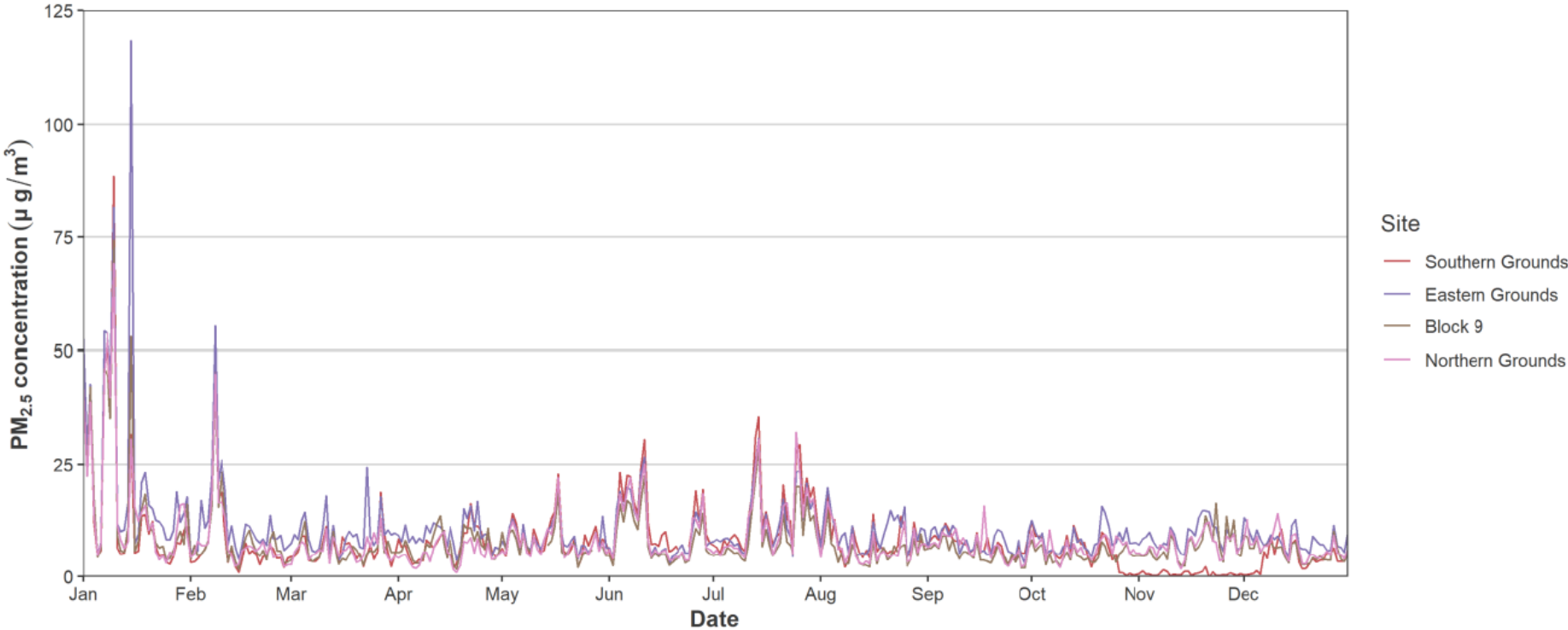


**PM<sub>2.5</sub>  
trends  
(24-hour  
Averages)**

**ABC Community Monitors**



**ABC Onsite Monitors**





EPA LeFevre 1 Monitor

