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## ANNUAL GROUND LEVEL PARTICULATE MONITORING REPORT FOR BIRKENHEAD WORKS

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**COMPLIANCE DATE: 31/01/23 – 2022 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: 31 January 2023**

**Version Number: 1**



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

## 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>
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$\text{PM}_{10}$	Particulate matter with a diameter less than 10 micrometres
$\text{PM}_{2.5}$	Particulate matter with a diameter less than 2.5 micrometres
24-hour average	Calendar day (midnight to midnight)

<b>Abbreviations</b>	<b>Definition</b>
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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

**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 (corner of Gunn/ Well streets and Community Park).

**Monitoring Objective**

Annual report to include the following:

Monitoring data for each monitor (on site and off site) including EPA monitor (Le Fevre 1) for comparison as follows

- 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).
- 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).

**Monitoring Plan**

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.

The Plan is available on the ABC Birkenhead Community Website:  
<http://www.birkenheadcommunity.com.au/>

**Monitoring Data**

This report contains monitoring data only. For analysis of the monitoring data, refer to the following;

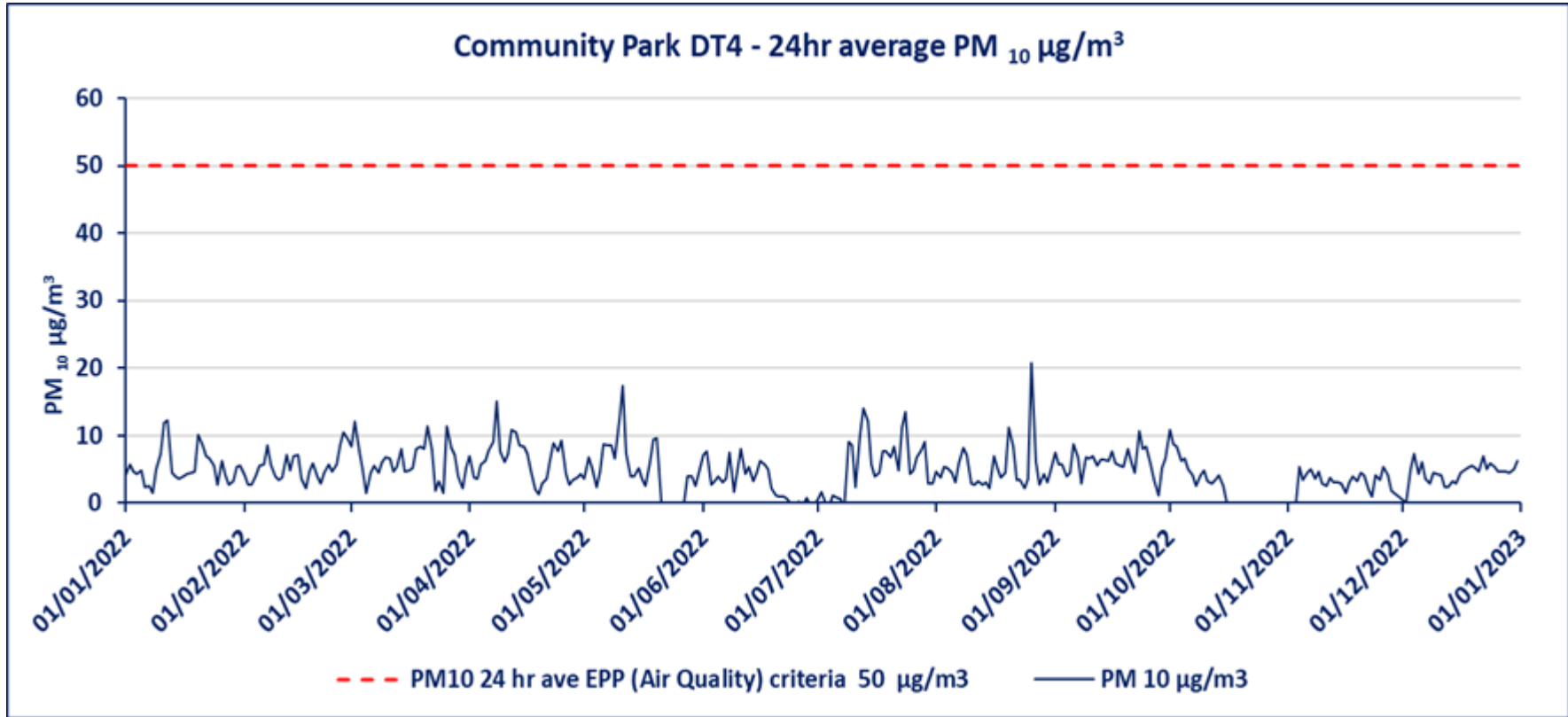
- 2022 Quarterly Ground Level Particulate Monitoring Reports
- 2022 Quarterly Dust Management Reports.

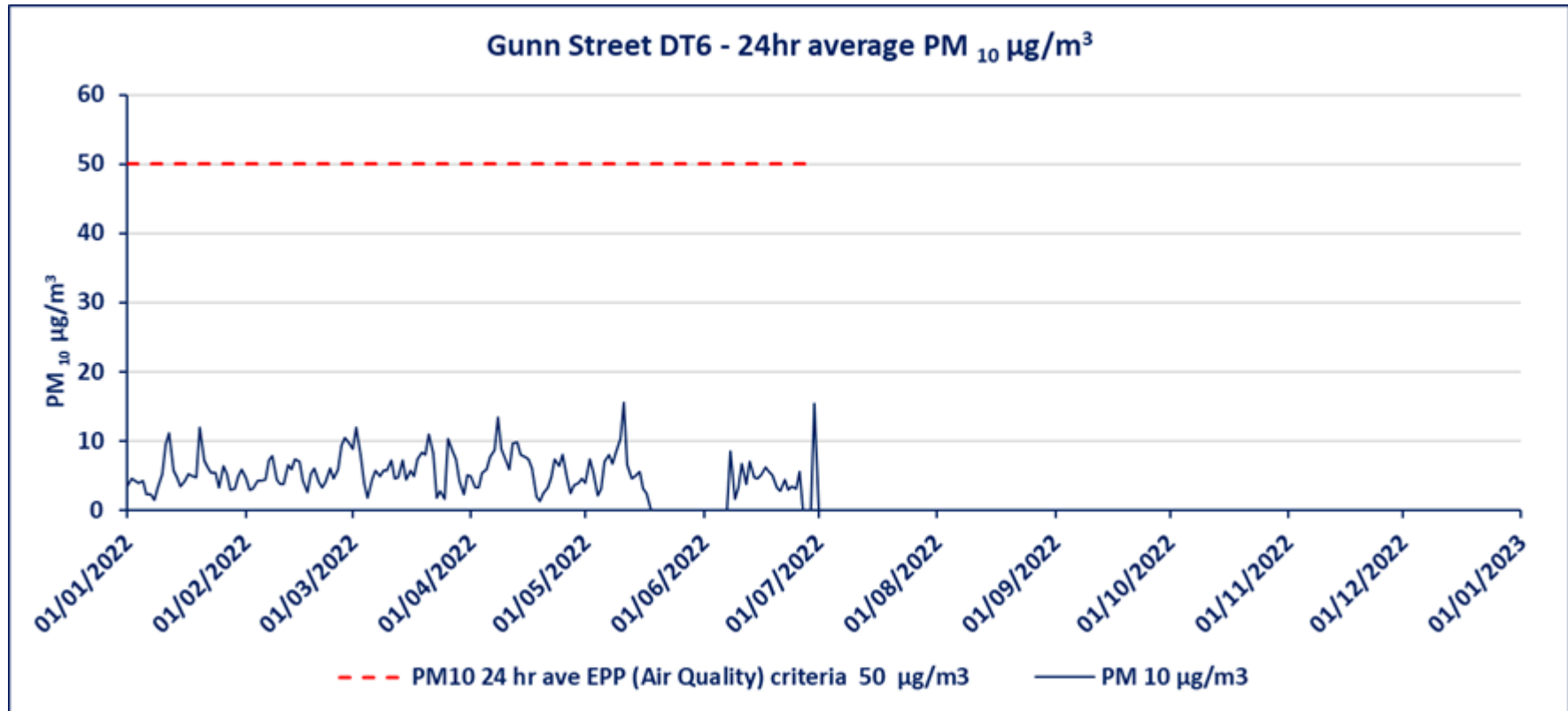
There has been an intermittent problem with data transfer from the monitors to the Katestone FTP server. The equipment supplier Kenelec and Katestone have been involved in an ongoing investigation to identify the cause. ABC engaged the services of IndustrialNow, a company that provides specialist engineering capabilities with integrating and supporting both legacy and the latest automation technologies to resolve the issue of intermittent data transfer from ambient dust monitors. ABC understands the intermittent data transfer issue was resolved in December 2022, by reconfiguring the telstra Access Point Name (APN) settings.

There were no 24-hour exceedances of PM<sub>10</sub> and PM<sub>2.5</sub> Air (EPP) criteria on ABC ambient particulate monitors in the community, indicating good ambient air quality.

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

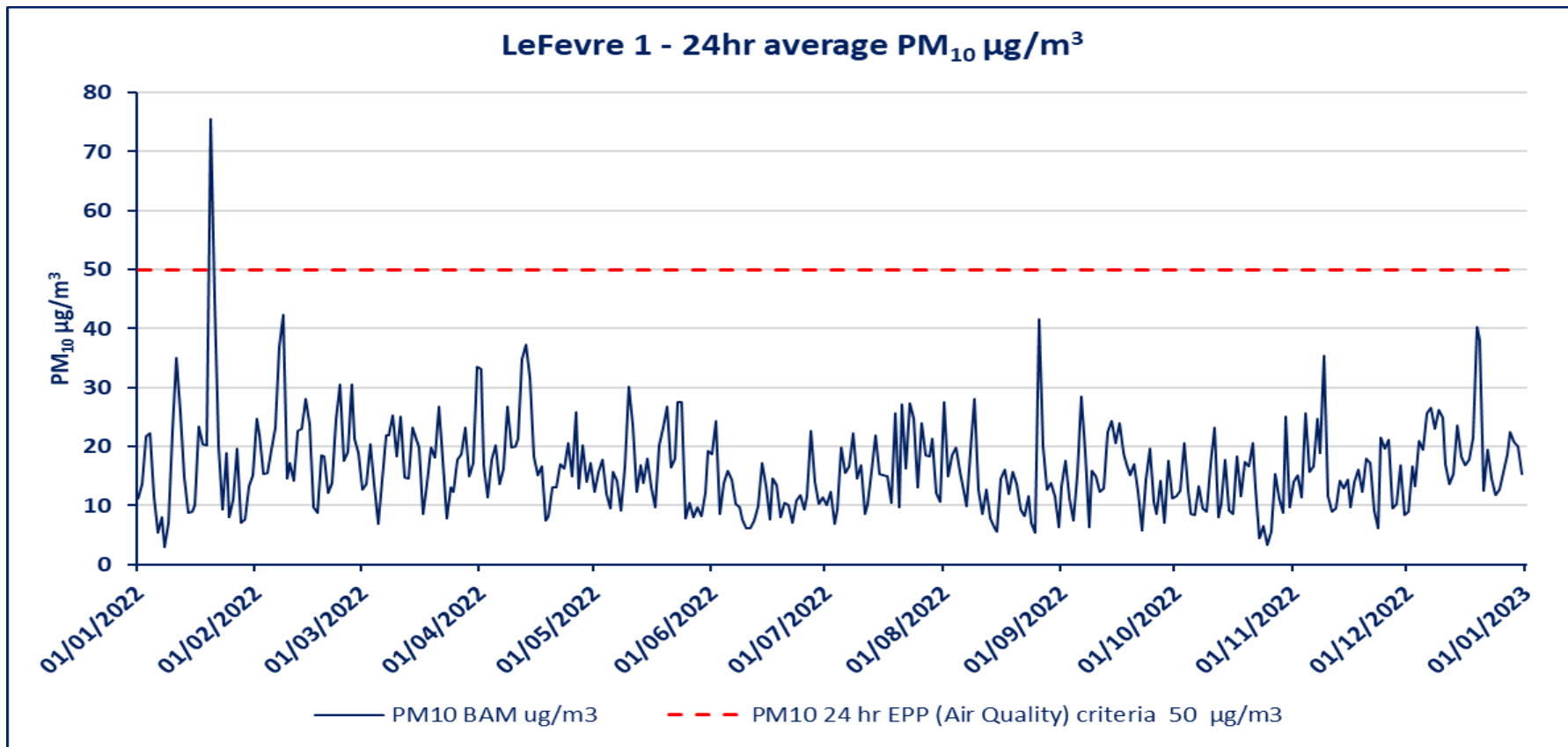
ABC Community Monitors



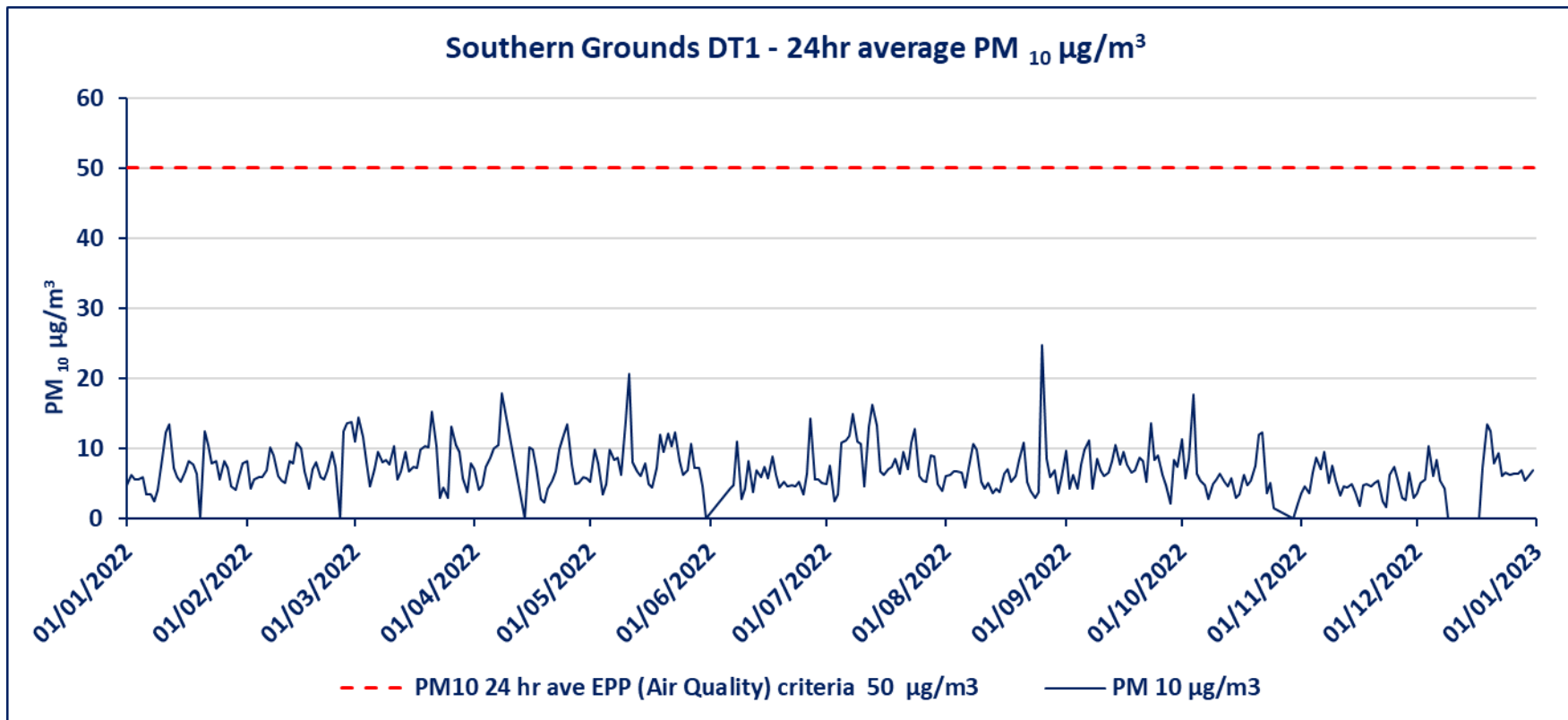


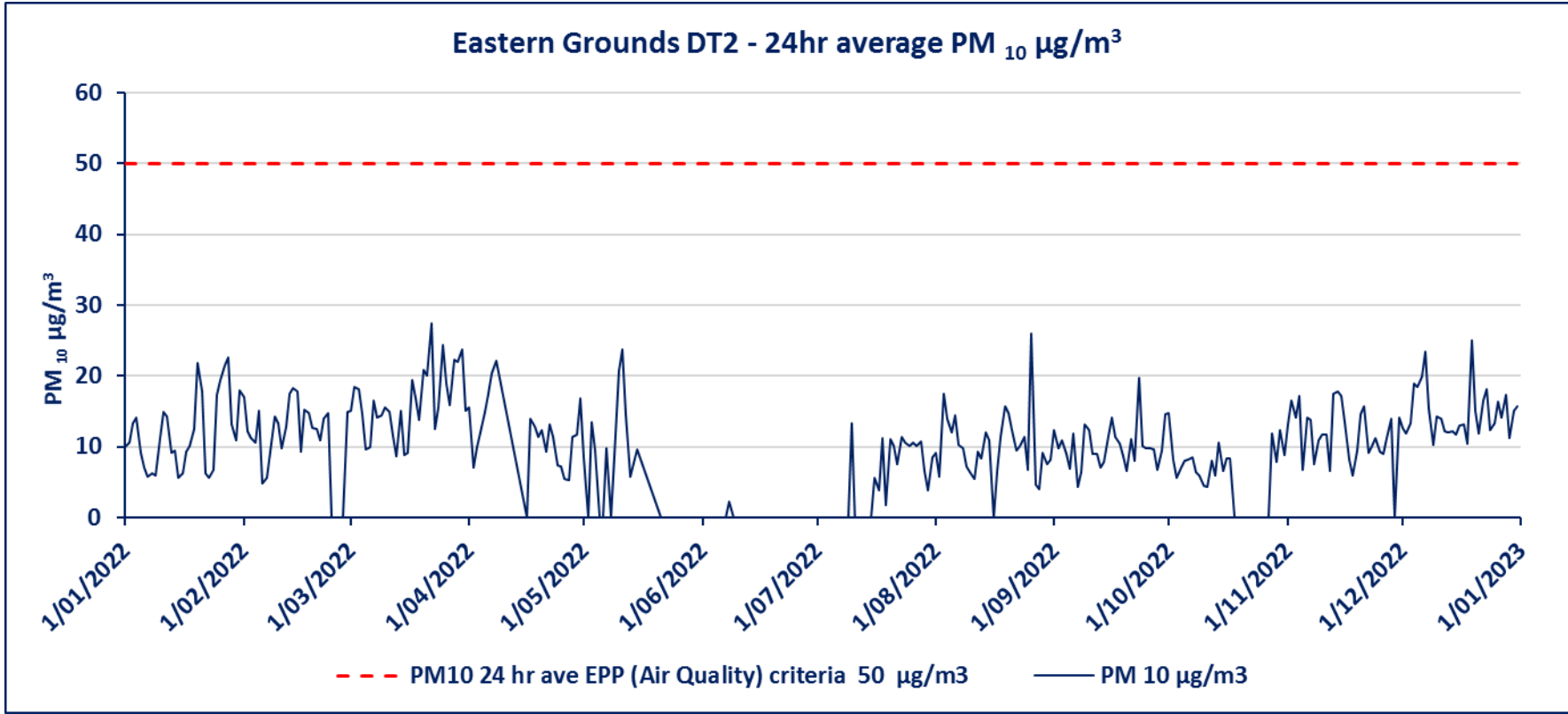
The property (not owned by ABC), on which the Gunn Street Monitor was located, was sold for redevelopment and was no longer available for use from the 30/6/2022. As a consequence the monitor was removed on 28 June 2022. A new monitoring location is currently being determined.

EPA LeFevre 1 Monitor

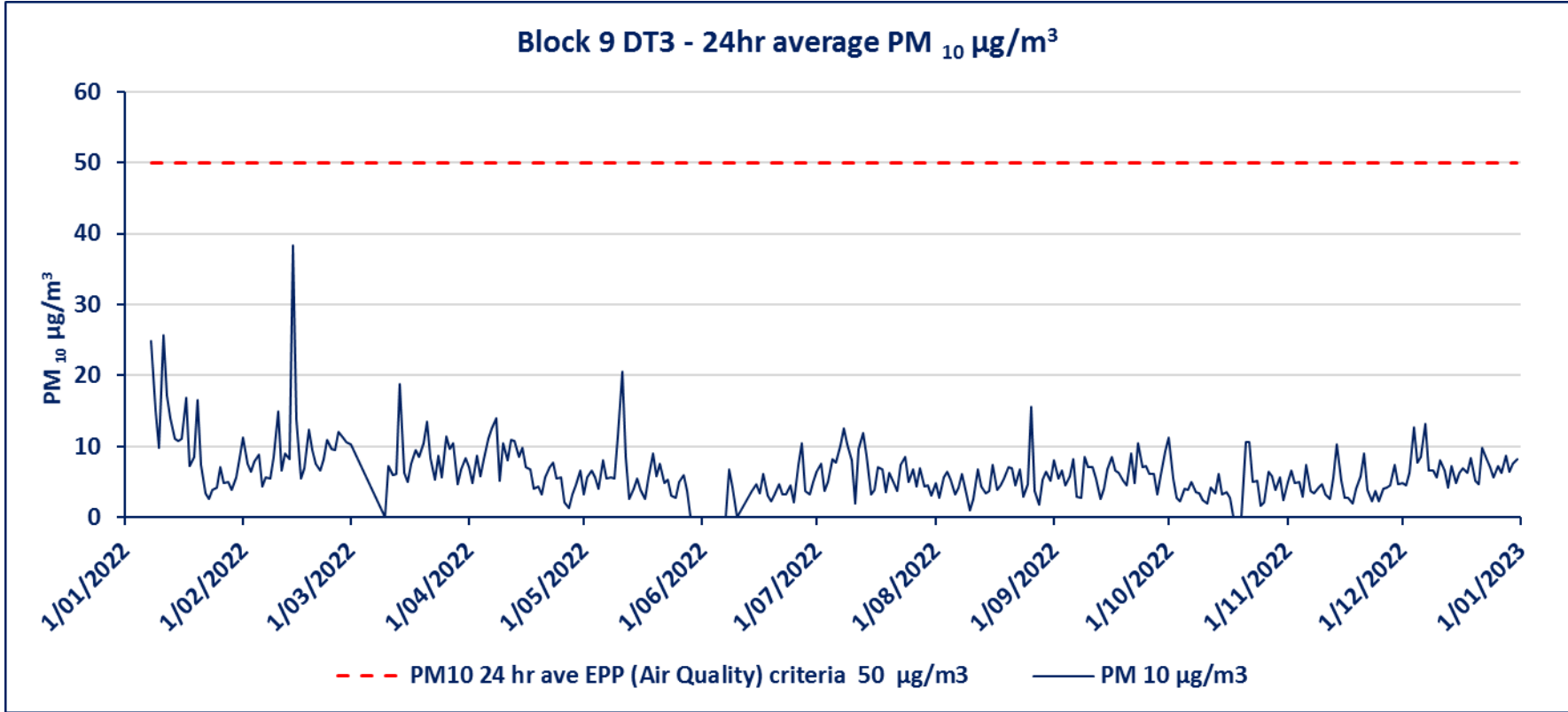


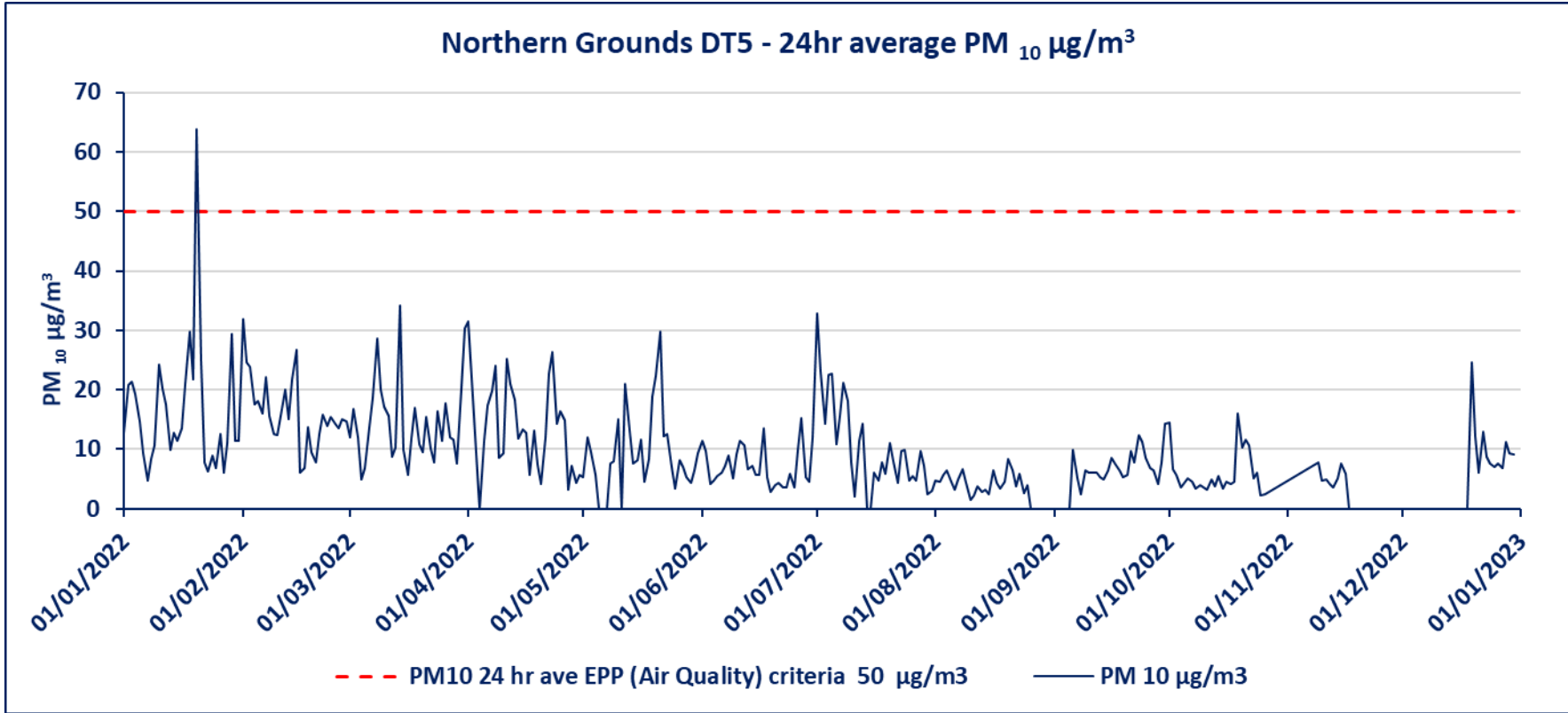
ABC Onsite Monitors





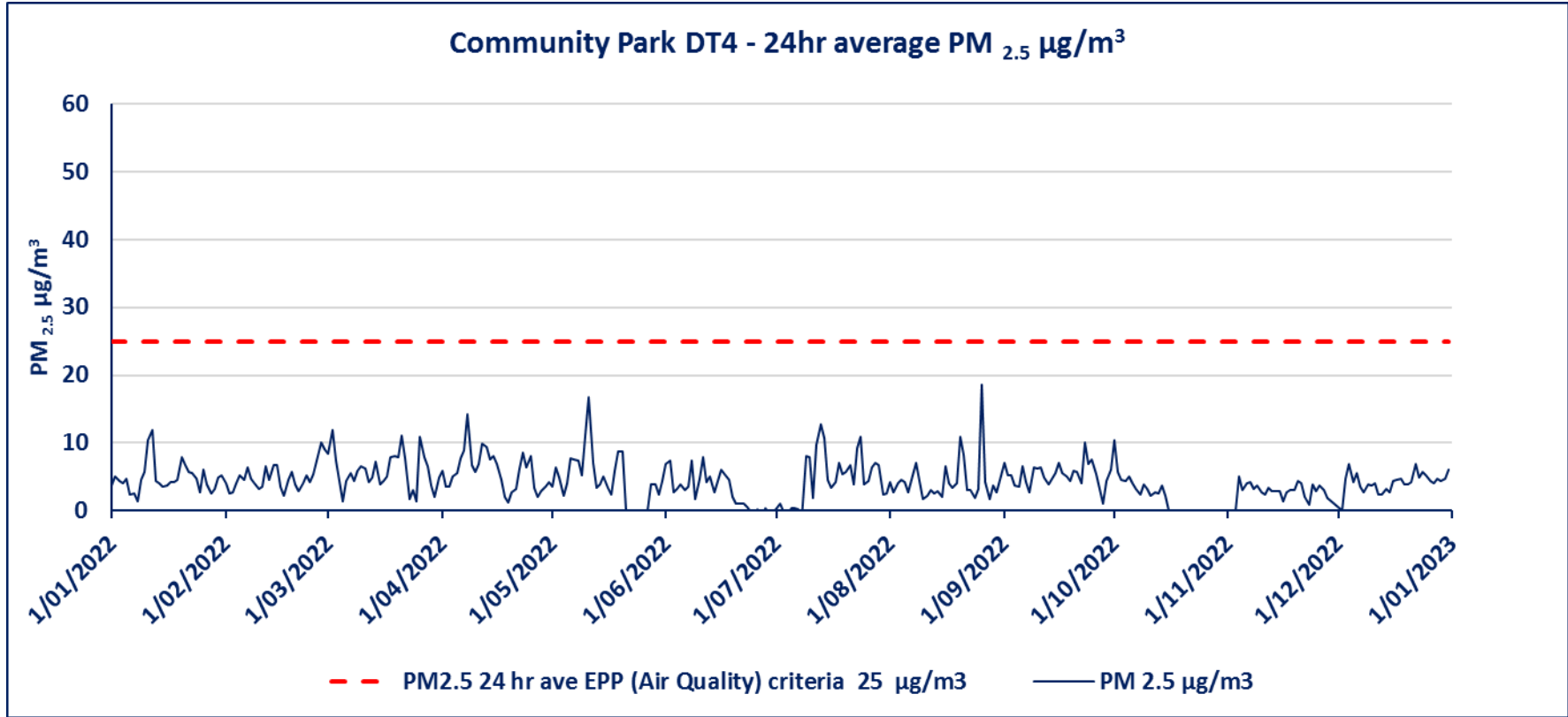


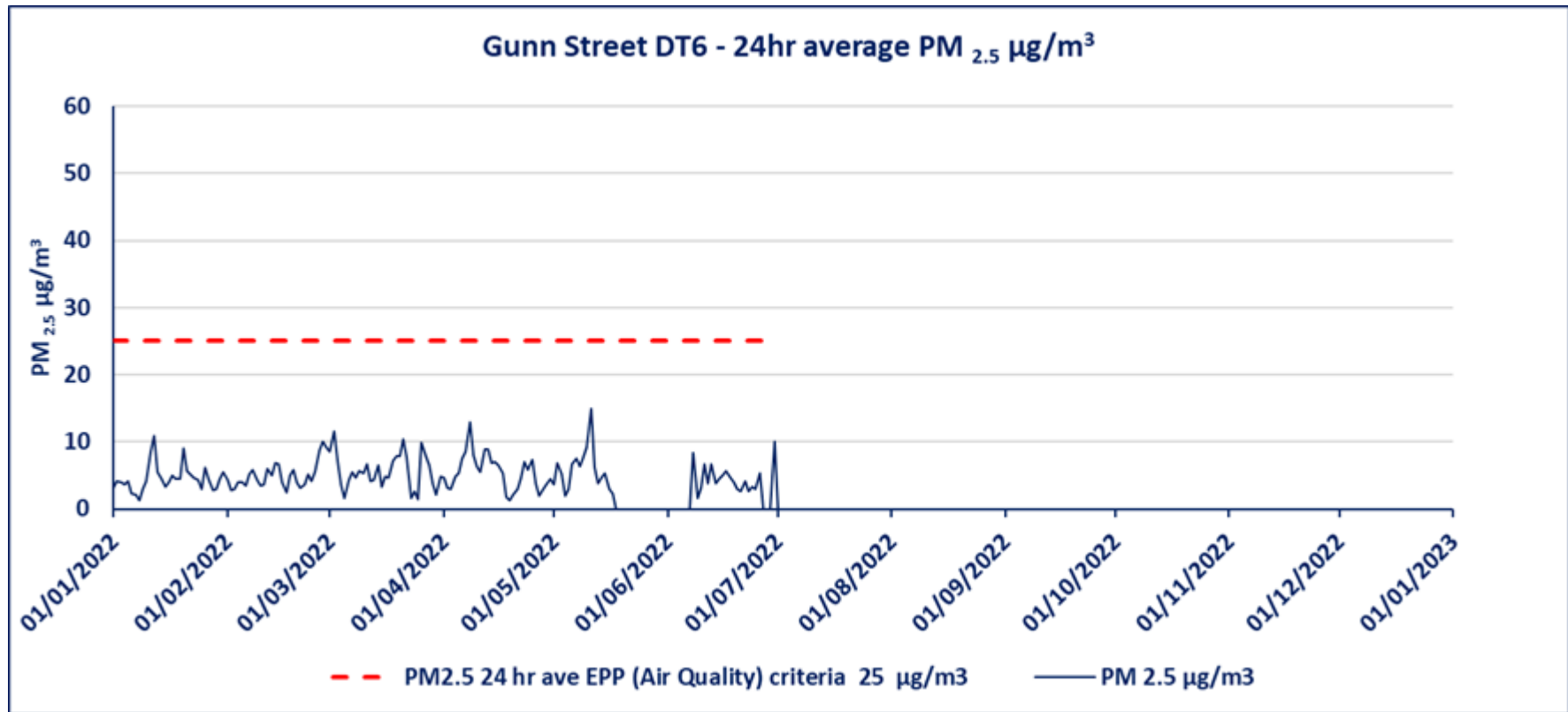




PM<sub>2.5</sub>  
trends  
(24-hour  
Averages)

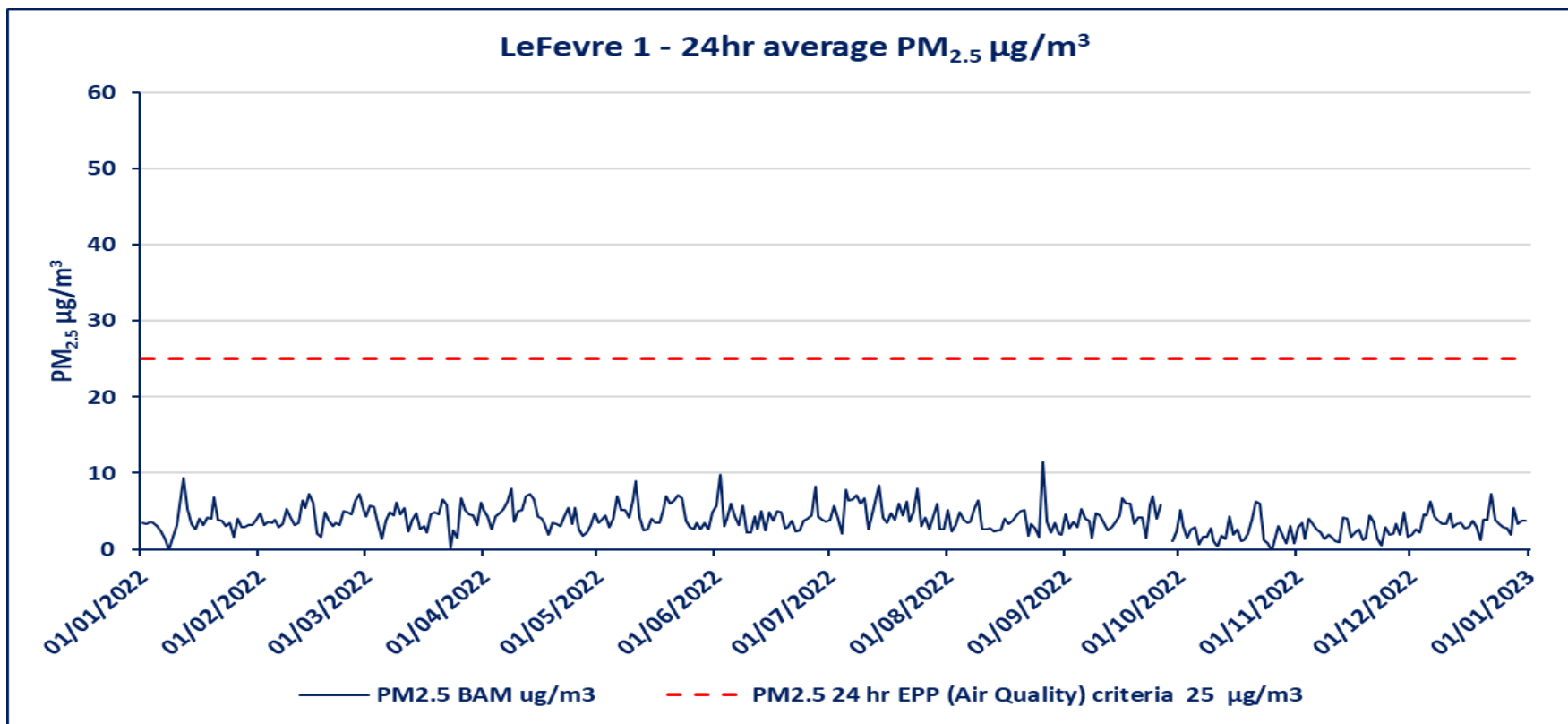
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EPA LeFevre 1 Monitor



ABC Onsite Monitors

