



Adelaide Brighton Cement Ltd

ABN 96 007 870 199

ANNUAL GROUND LEVEL PARTICULATE MONITORING REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 31/01/22 – 2021 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 2022

Version Number: 1



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


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

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

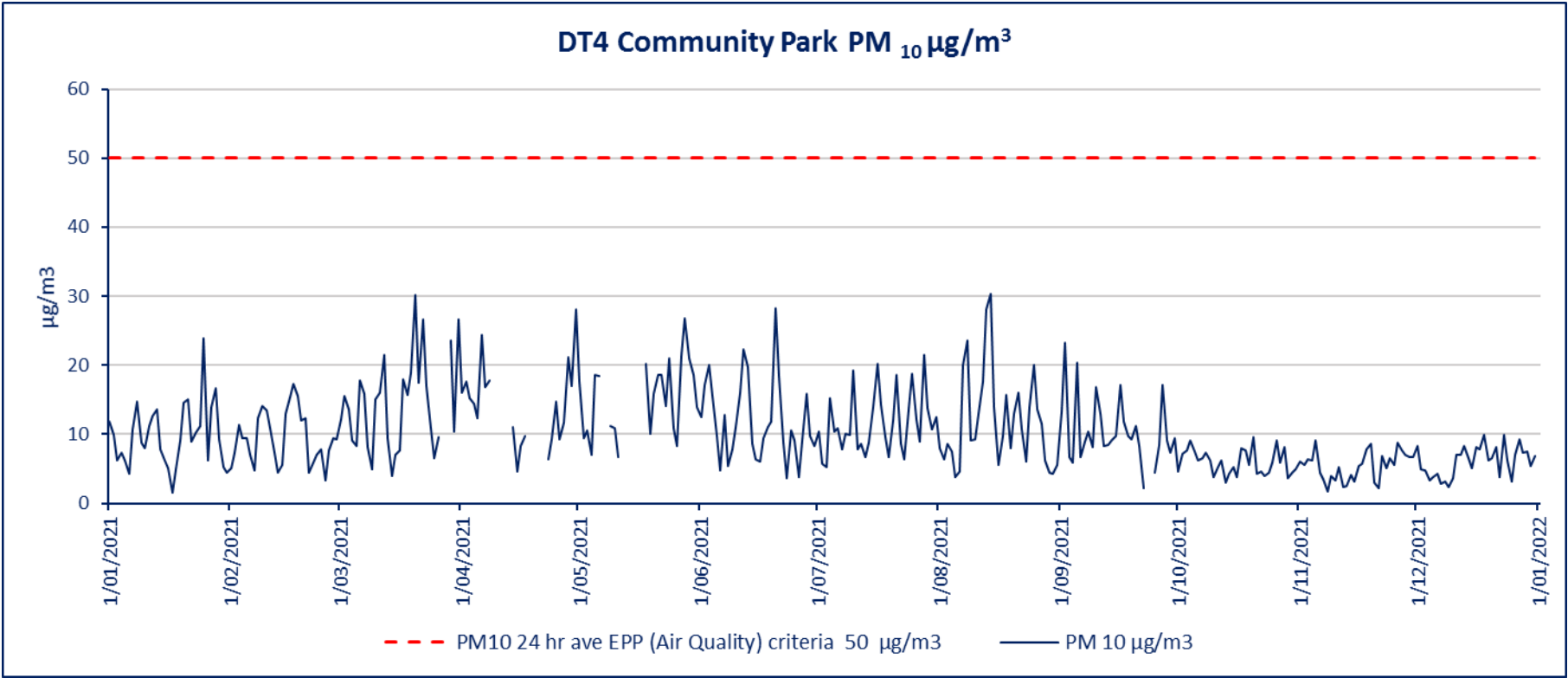
Nomenclature	Definition
PM_{10}	Particulate matter with a diameter less than 10 micrometres
$\text{PM}_{2.5}$	Particulate matter with a diameter less than 2.5 micrometres
24-hour average	Calendar day (midnight to midnight)

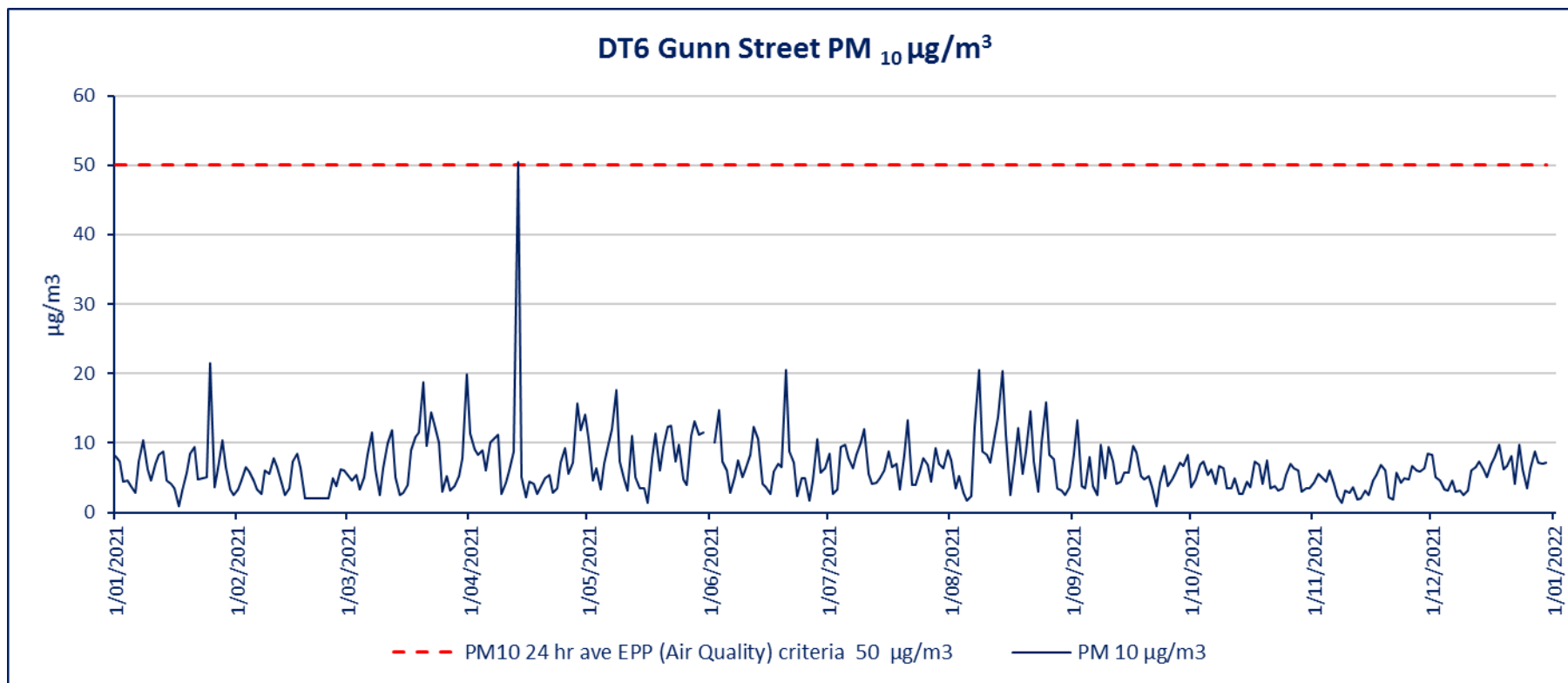
Abbreviations	Definition
ABC	Adelaide Brighton Cement
Air EPP	South Australian Environment Protection (Air Quality) Policy 2016
GLPMRP	ABC's Ground Level Particulate Monitoring and Reporting Plan
EPA	Environment Protection Authority

Sampling Locations	<ul style="list-style-type: none"> Map showing sampling locations, major infrastructure, sensitive environmental receptors, and north arrow  <p>Sampling locations are indicated by colour-coded dots on the above map.</p> <p>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).</p>
Monitoring Objective	<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"> Yearly time series graph of 24-hour average PM₁₀ concentrations reported against the Air EPP for PM₁₀ of 50 micrograms per cubic metre (24-hour average). Yearly time series graph of 24-hour average PM_{2.5} concentrations reported against the Air EPP for PM_{2.5} of 25 micrograms per cubic metre (24-hour average).
Monitoring Plan	<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: http://www.birkenheadcommunity.com.au/</p>
Monitoring Data	<p>This report contains monitoring data only. For analysis of the monitoring data, refer to the following;</p> <ul style="list-style-type: none"> 2021 Quarterly Ground Level Particulate Monitoring Reports 2021 Quarterly Dust Management Reports.

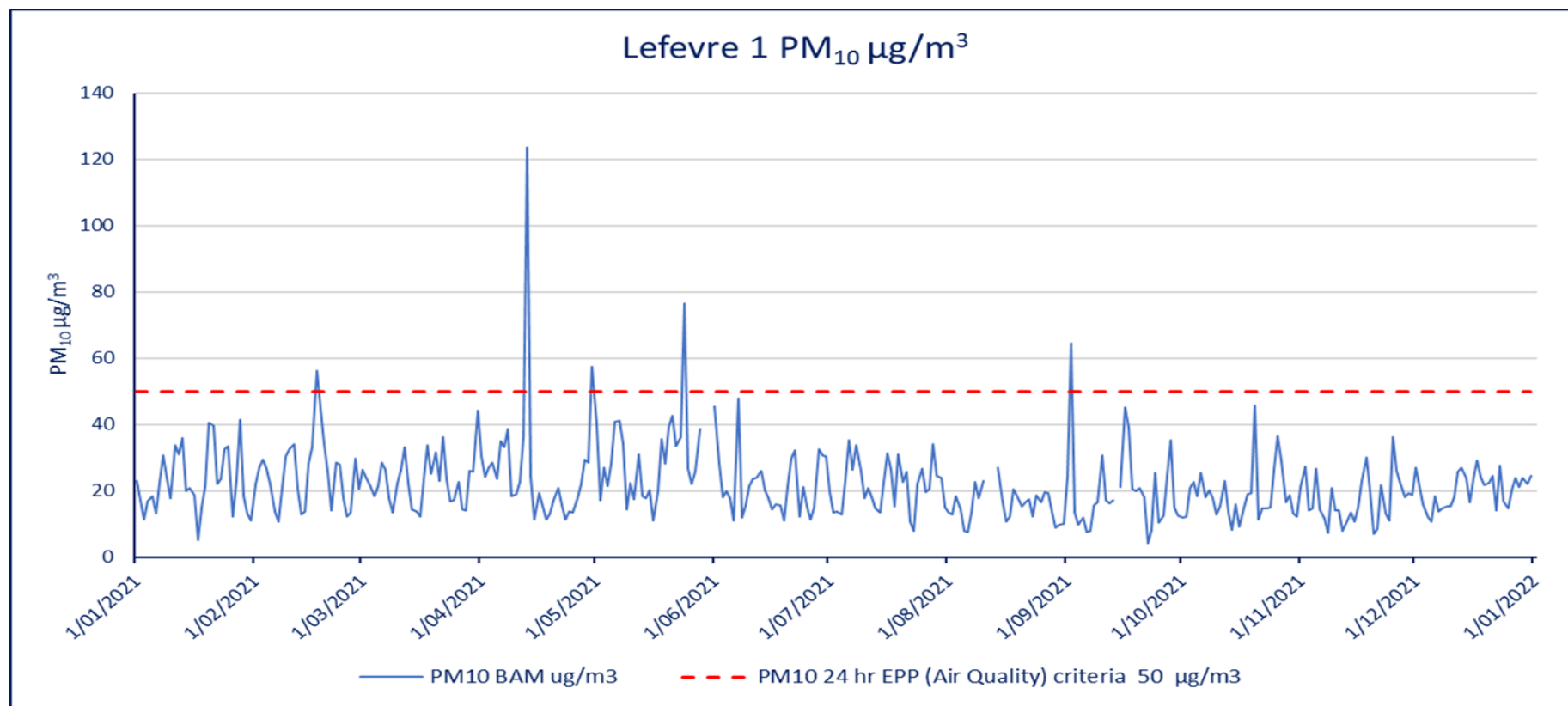
PM₁₀
trends
(24-hour
Averages)

ABC Community Monitors

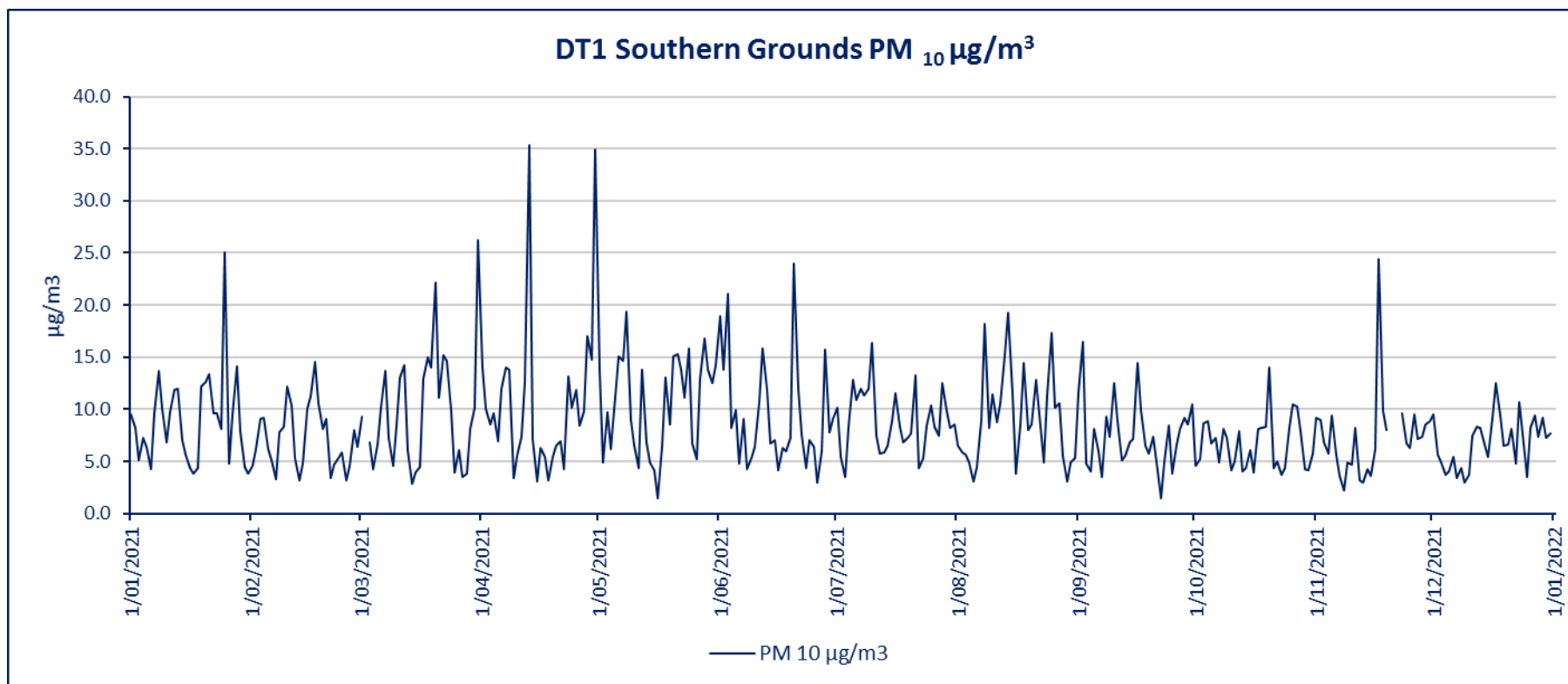


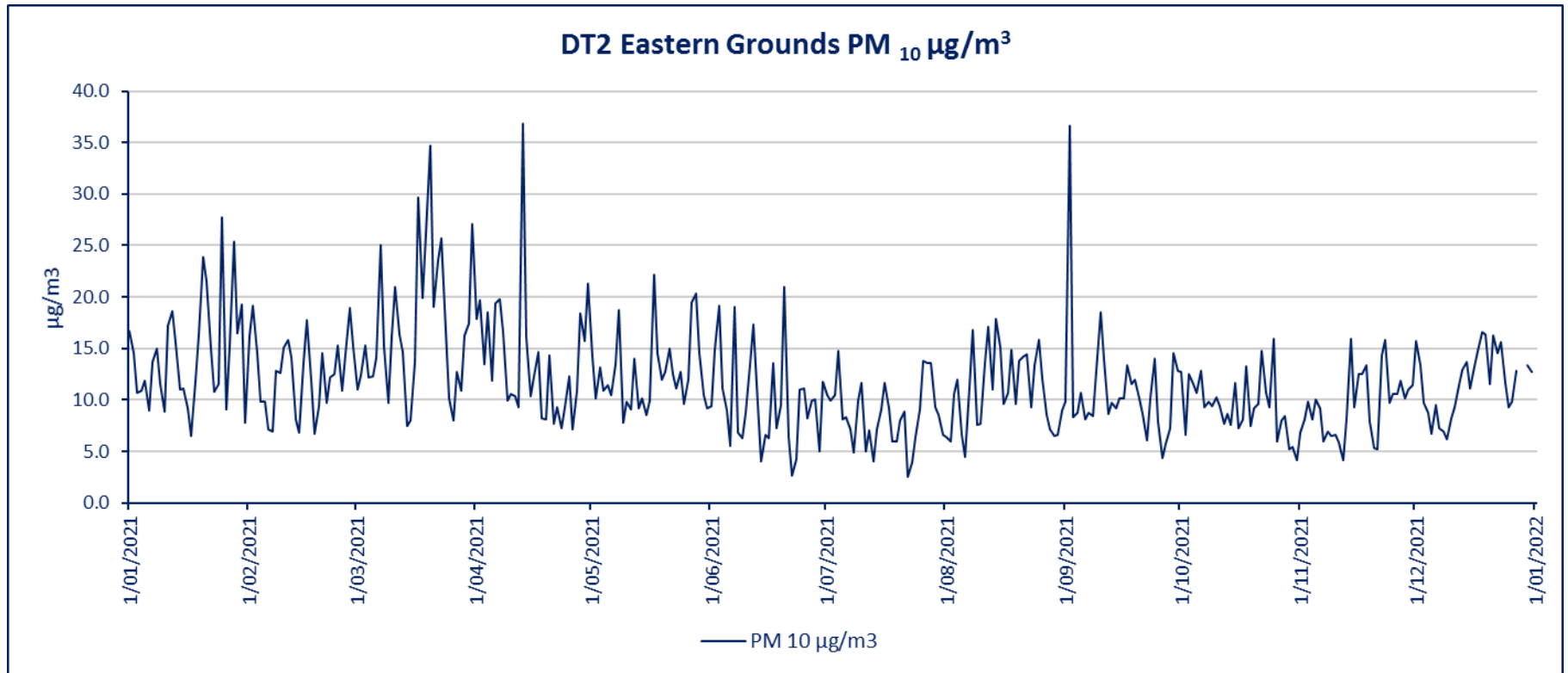


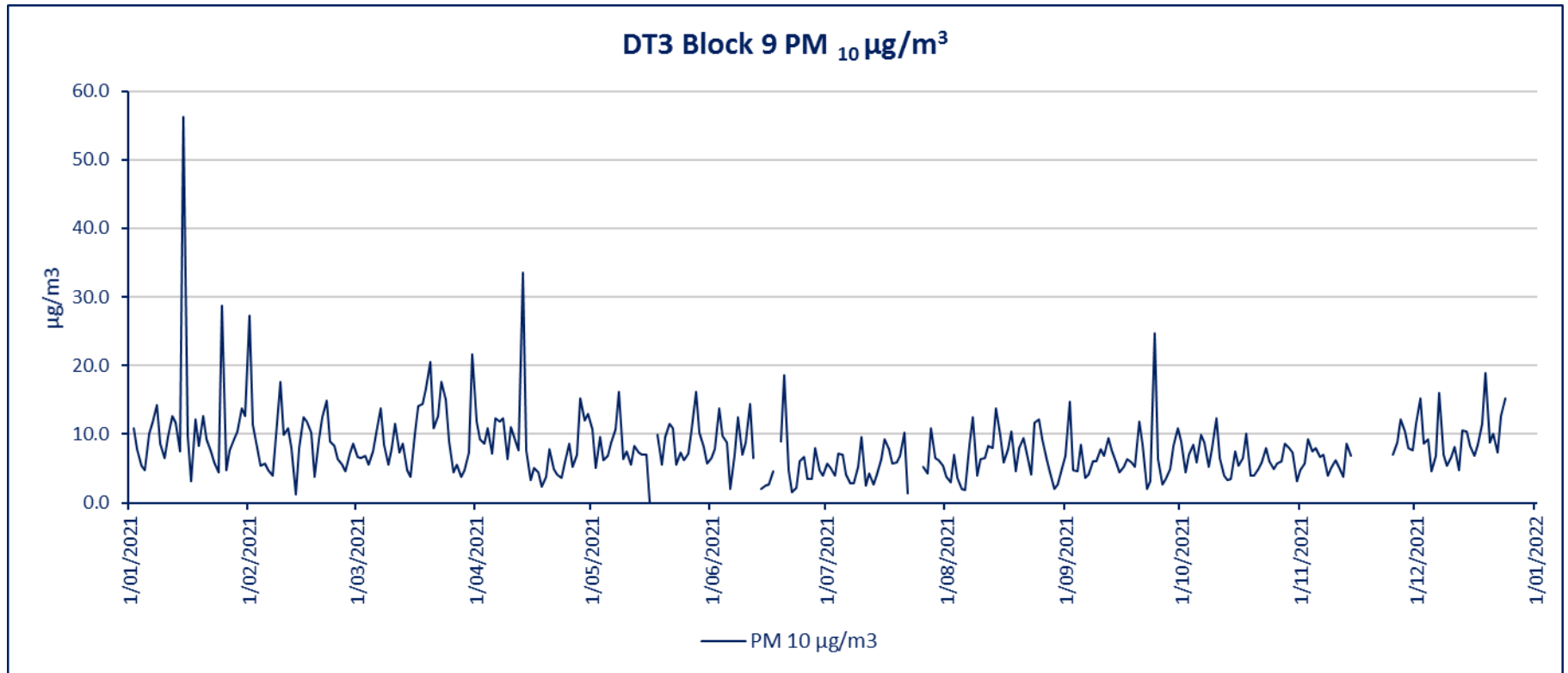
EPA Lefevre 1 Monitor

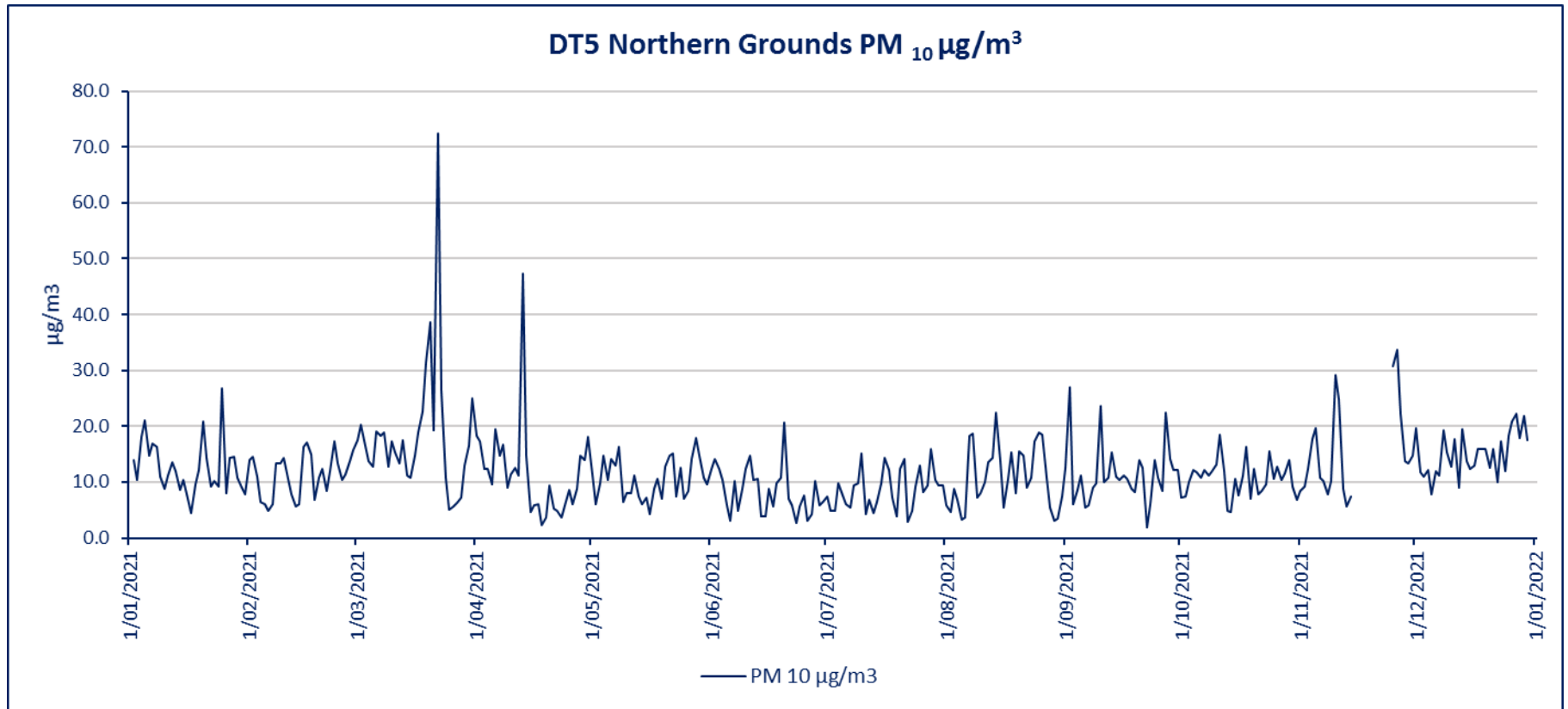


ABC Onsite Monitors



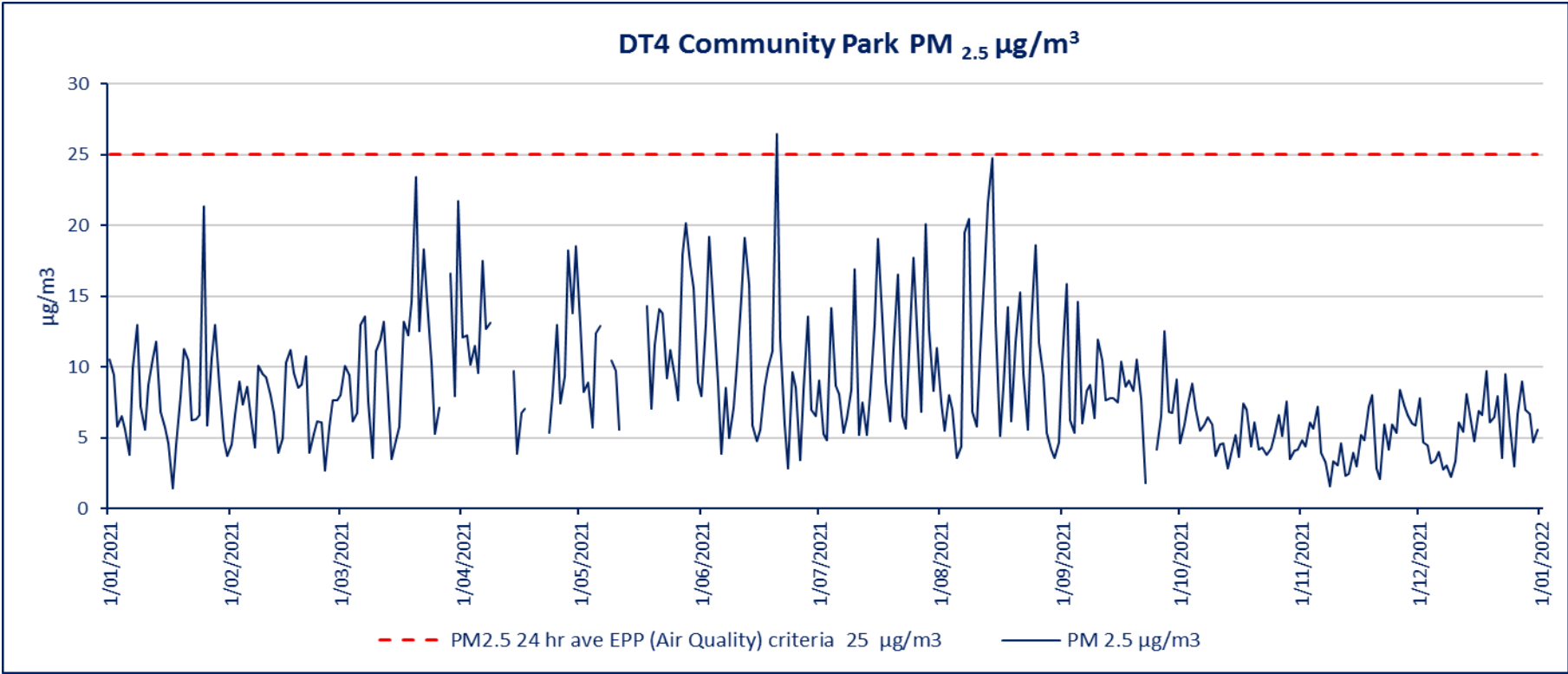


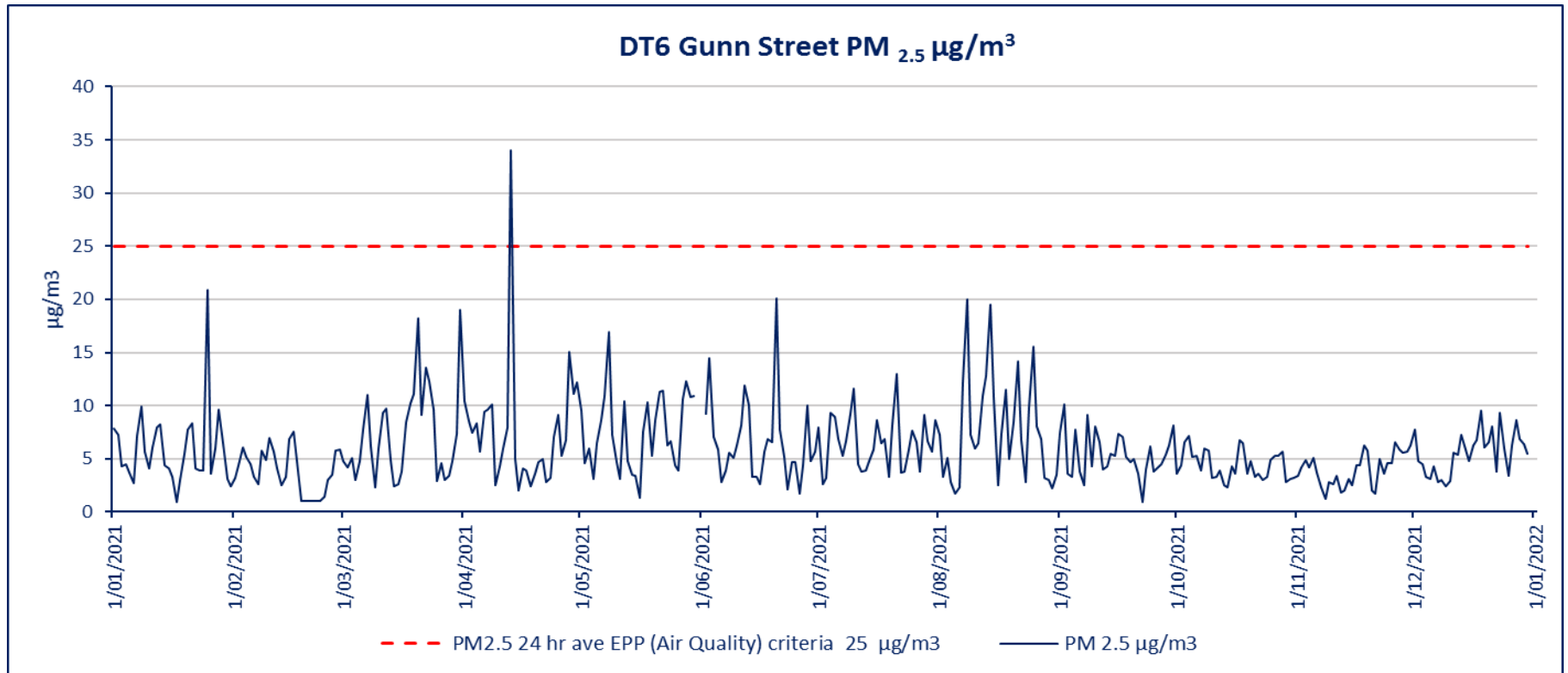




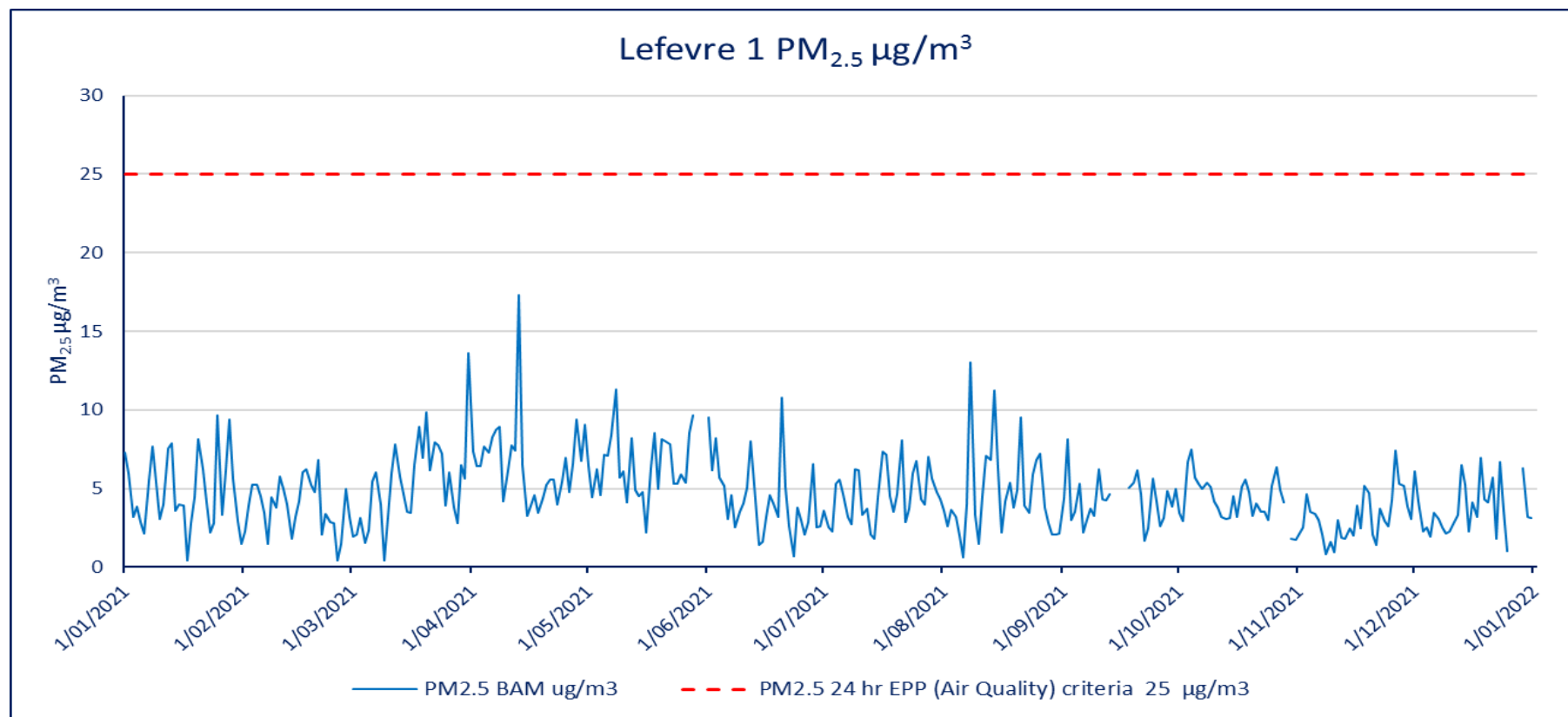
PM_{2.5}
trends
(24-hour
Averages)

ABC Community Monitors





EPA LeFevre 1 Monitor



ABC Onsite Monitors

