

PM₁₀ Monitoring Report

July 2021

248-250 Camden Road, London

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PM₁₀ Monitoring Report for July 2021

240-250 Camden Road, London (NW1 9HE)

London Borough of Camden

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1. Monitoring Programme

Introduction

- 1.1 Phlorum Limited has been commissioned by the London Borough of Camden (LBC) to undertake PM₁₀ dust monitoring at 248 – 250 Camden Road, London (NW1 9HE).
- 1.2 Dust monitoring is required for the redevelopment of the 240 – 250 Camden Road site, which includes the demolition of the existing hostel building followed by the subsequent construction of a 4-6 storey (plus basement) hostel building along with associated access, landscaping, and parking (planning application reference: **2020/3737/P**).
- 1.3 Real-time monitoring of particulate matter (PM₁₀) is required at two locations on-site throughout the circa 98-week build programme, including a three-month period of baseline monitoring. Monthly reports are required to be supplied to the LBC air quality team throughout the construction of the proposed development.
- 1.4 Both monitors were installed on site on 23rd July 2021. Therefore, this report provides details of the monitoring programme and associated results and covers the first monitoring period, as detailed below:

🕒 23rd July 2021 to the 31st July 2021, inclusive.

Guidance and Consultation

- 1.5 The dust monitoring programme follows guidance set out in the Greater London Authority (GLA) *Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance (SPG)*¹, as well as the Institute of Air Quality Management (IAQM) *Guidance on Monitoring in the Vicinity of the Demolition and Construction Sites*².
- 1.6 The approach to the monitoring programme, as outlined below, was agreed with the air quality officer at LBC in advance of the installation.

Dust Monitoring Units

- 1.7 As requested during consultation with LBC, two 'MCERTS' indicative real-time PM₁₀ monitors were installed on site, connected to power and began transmitting data on the 23rd July 2021.

1 GLA Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance, 2014:
https://www.london.gov.uk/sites/default/files/gla_migrate_files_destination/Dust%20and%20Emissions%20SPG%208%20July%202014.pdf

2 IAQM Guidance on Monitoring in the Vicinity of the Demolition and Construction Sites, 2018:
https://iaqm.co.uk/text/guidance/guidance_monitoring_dust_2018.pdf

- 1.8 Full details of the dust monitoring units, including service history, calibration, and installation dates, are provided below in Table 1.1.




Table 1.1: Dust Monitor Details.

Item	Monitor 1 – North-East Corner	Monitor 2 – South-West Corner
	ID: s/n 1664 #185 MP1	ID: s/n 1665 #186 MP2
Dust Monitor	Aeroqual Dust Sentry (MCERTS certified)	Aeroqual Dust Sentry (MCERTS certified)
Serial Number	DS 17062021-1664	DS 17062021-1665
Location	51.547168°N, -0.130715°E	51.547008°N, -0.130956°E
Inlet Height	c. 2.5m	c. 2.5m
Last Calibrated	July 21 st 2021	July 21 st 2021
Calibration Due	July 21 st 2023	July 21 st 2023
Installation	23 rd July 2021	23 rd July 2021

- 1.9 A map of the dust monitoring locations has been provided in Figure 1. Photographs of the Dust Sentry units installed on site are provided in Figures 2 and 3.

Trigger Levels

- 1.10 The following trigger levels were set at the request of LBC's air quality officer:

-  'Warning' level: 150µg.m⁻³ (15-minute average);
-  'Action' level: 250µg.m⁻³ (15-minute average);
-  'Action' level: 190µg.m⁻³ (1-hour average).

2. Monitoring Results

Monitoring Period

- 2.1 The results presented in this section of the dust monitoring report relate to the monitoring period 23rd July to 31st July 2021, inclusive.

Details of Works During Monitoring Period

- 2.2 Demolition and construction works are yet to commence on site and the results presented for July 2021 relate to the first period of baseline monitoring.

Summary of Data During Monitoring Period

- 2.3 The data in Table 2.1, below, provides a summary of exceedances of the trigger levels, as well as average concentrations and valid data capture.

Table 2.1: Summary table of exceedances of trigger levels.

Item	Monitor 1 – North-East Corner	Monitor 2 – South-West Corner	Explanation
	ID: s/n 1664 #185 MP1	ID: s/n 1665 #186 MP2	
Data Capture	90.0%	98.6%	No major connectivity issues during this monitoring period.
Average Daily Mean PM ₁₀ Concentration (µg.m ³)	7.8	9.1	-
15-Minute mean Trigger Level Exceedances	0	0	There were no exceedances of the 15-minute mean trigger level during July 2021.
1-Hour mean Trigger Level Exceedances	0	0	There were no exceedances of the 1-Hour mean trigger during July 2021

- 2.4 Graph 1 provides the 15-minute average PM₁₀ time-series for the monitoring period. It shows that there were no exceedances of the 15-minute 'Warning' level at either monitor during July 2021.

- 2.5 There were no exceedances of the 15-minute 'Action' trigger level at either monitor during this period. Overall, there is good agreement in the trend lines for both monitors which suggests that there are few significant localised dust sources in close proximity to either monitor.
- 2.6 Graph 2 provides the 1-hour average PM₁₀ time-series for the monitoring period. It shows that there are no exceedances of the 'Action' trigger level. Again, there is good agreement in the trend lines for both monitors, suggesting that there are few significant localised dust sources in close proximity to either monitor.

Summary of Monitoring Results

- 2.7 There were no exceedances of either the 15-minute 'Warning' level or the 'Action' trigger levels at either Monitor 1 or Monitor 2 throughout this monitoring period.
- 2.8 There were no exceedances of the 1-hour mean 'Action' trigger level during the monitoring period.
- 2.9 Overall, there is good agreement in the trend line for both monitors, however, it is worth noting that there were some brief, localised spikes in PM₁₀ concentrations observed at both monitors.
- 2.10 Demolition and construction works are yet to commence on site. Therefore, the results presented within this report for July 2021 relate to the first period of baseline monitoring.

Figure 1: Map of Monitoring Locations

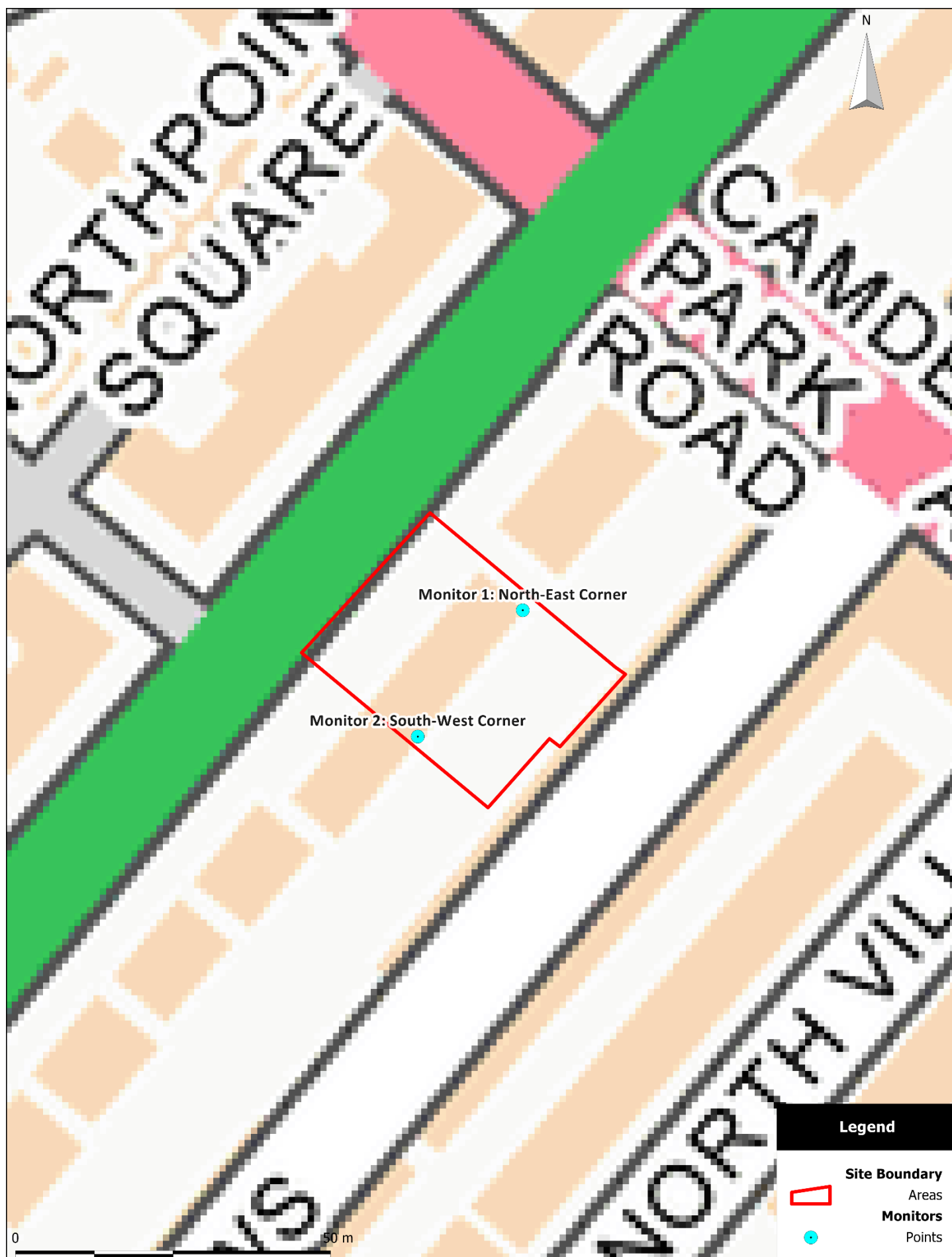


Figure 1: Monitoring Locations

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Figure 2: Monitor 1 – North-East Corner

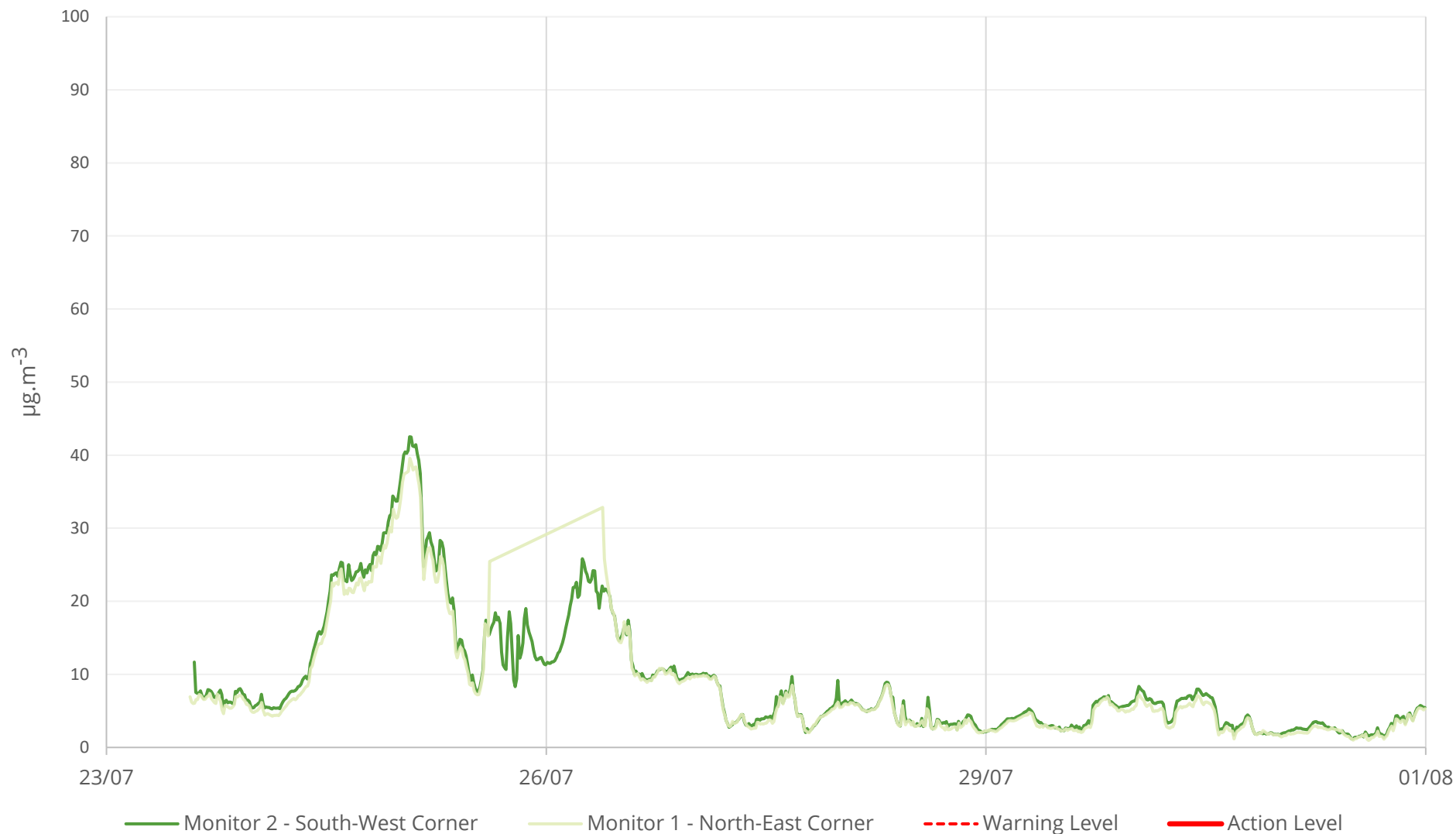


Figure 3: Monitor 2 – South-West Corner



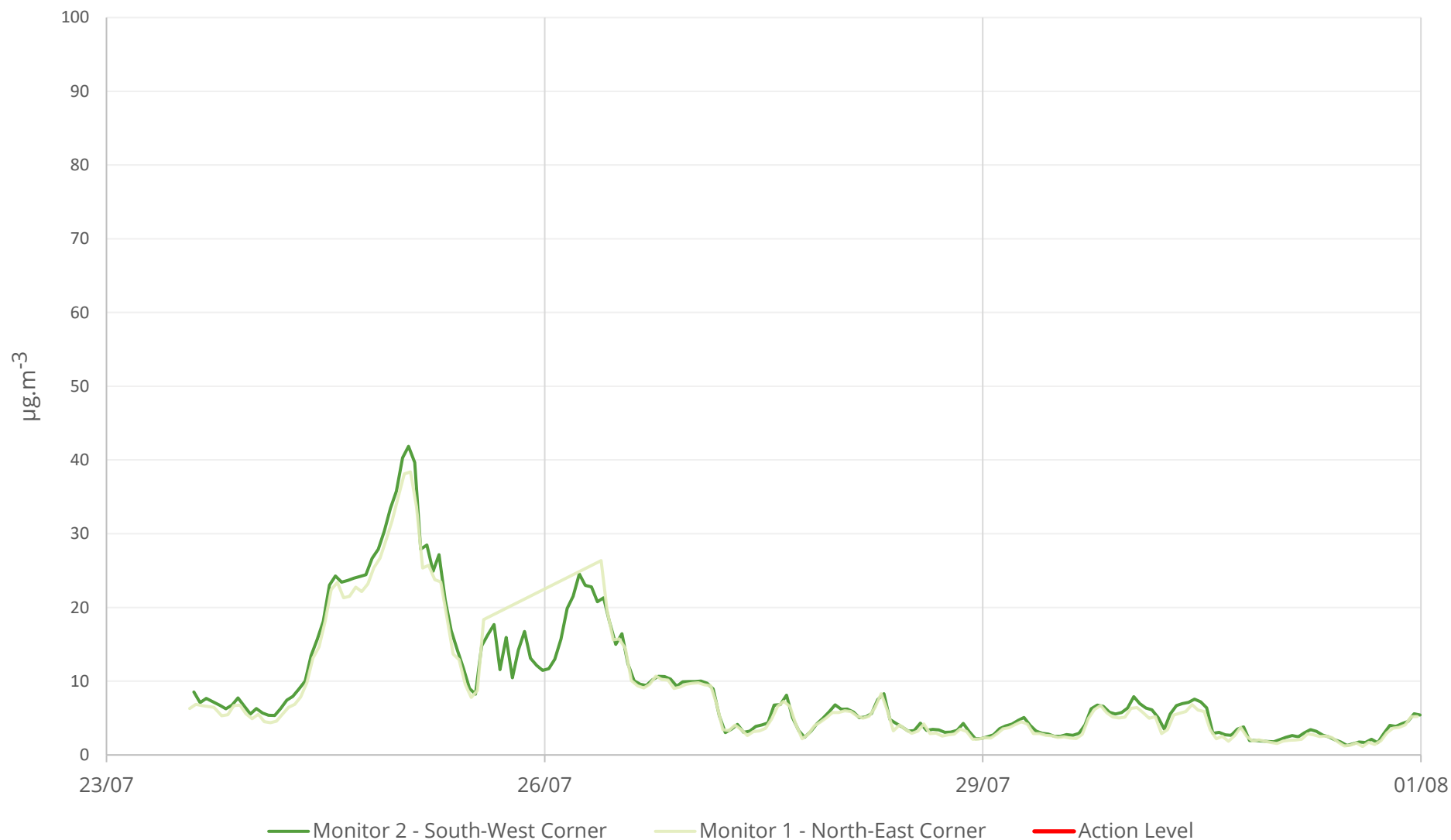
Graph 1: 15-minute mean time-series

Dust Monitoring at 240-250 Camden Road, London (15 Minute Averages for PM₁₀)



Graph 2: 1-hour mean time-series

Dust Monitoring at 240-250 Camden Road, London (Hourly Averages for PM₁₀)





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