



PM₁₀ Monitoring Report

(March 2020)

Highgate Newtown Community Centre

April 2020

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London Borough of Camden (LBC)

5 Pancras Square
London
N1C 4AG

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Phlorum Limited

Southern Office: Unit 12, Hunns Mere Way, Woodingdean, Brighton, East Sussex, BN2 6AH
T: 01273 307 167 E: info@phlorum.com W: www.phlorum.com

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1. Monitoring Programme

Introduction

- 1.1 Phlorum Ltd has been commissioned by the London Borough of Camden (LBC) to undertake PM₁₀ dust monitoring at Highgate Newtown Community Centre, 25 Bertram St, Highgate, London N19 5DQ.
- 1.2 Dust monitoring is required for the demolition of existing buildings on site and a mixed-use re-development of the site incorporating new blocks for residential and community use (planning ref **2018/5774/P**).
- 1.3 PM₁₀ dust monitoring is required throughout the circa 98 week build programme, including a period of baseline monitoring. Monthly reports are required throughout this phase to be supplied to the LBC air quality team.
- 1.4 This report provides details of the monitoring programme and associated results and covers the monitoring period:

🕒 2nd March 2020 to the 31st March 2020, 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 Sites².
- 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 on Friday 28th February 2020 and were connected to power and began transmitting data on 2nd March 2020.
- 1.8 Full details of the dust monitoring units, including service history, calibration and installation dates, are provided below in Table 1.1.

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

Table 1.1: Dust monitor details

Item	Monitor 1 – SW Residential	Monitor 2 – NE Courtyard
	ID: s/n 447 #08 MP2	ID: s/n 203 #03 MP1
Dust Monitor	Aeroqual Dust Sentry (MCERTS certified)	Aeroqual Dust Sentry (MCERTS certified)
Serial Number	DS 25102016-447	DS 26062015-203
Location (lat,long)	51.5628°N, -0.1434°E	51.5628°N, -0.1434°E
Inlet Height	c. 1.5m	c. 3m
Last Calibrated	July 1 st 2019	January 30 th 2019
Calibration Due	June 30 th 2021	January 29 th 2021
Installation	28 th February 2020 / 2 nd March 2020	28 th February 2020 / 2 nd March 2020

1.9 A map of the dust monitoring locations is provided in Figure 1, with recent photographs of the units installed on site 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 2nd March to 31st March 2020, inclusive.

Details of works during monitoring period

- 2.2 No demolition / construction works have commenced on site, and monitoring relates to the baseline period.
- 2.3 It should be noted that between 2nd March and 11th March, the power supply for Monitor 2 in the courtyard had to be manually disconnected between approximately 5pm – 9am for health and safety reasons. An alternative power supply was established on 11th March and there were no further connectivity issues in the monitoring period.

Summary data during monitoring period

- 2.4 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

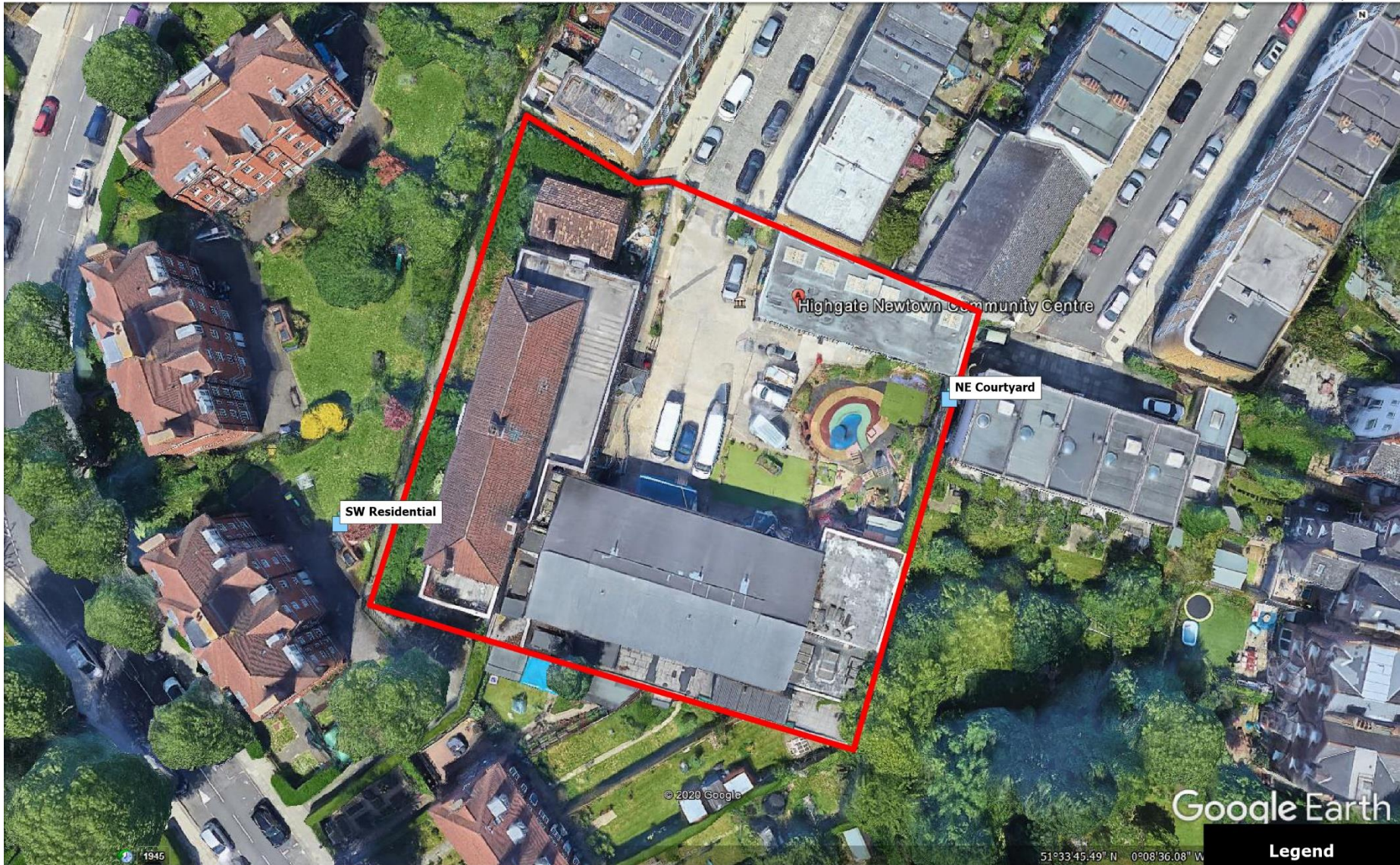
Item	Monitor 1 – SW Residential	Monitor 2 – NE Courtyard	Explanation
	ID: s/n 447 #08 MP2	ID: s/n 203 #03 MP1	
Data Capture	99.4%	91.6%	Overnight power outages for Health & Safety reasons (2 nd – 11 th March)
Average Daily Mean PM ₁₀ Concentration (µg.m ³)	7.05	7.15	-
15-Minute mean Trigger Level Exceedances	0	0	Works not yet commenced
1-Hour mean Trigger Level Exceedances	0	0	Works not yet commenced

- 2.5 Graph 1 toward the end of this report provides the 15-minute average PM₁₀ time-series for the monitoring period. It shows that there are no exceedances of either the 'Warning' or 'Action' trigger levels and overall, there is good agreement in the trendline for both monitors which suggests there are no significant localised dust sources in close proximity to either monitor.
- 2.6 Graph 2 toward the end of this report provides the 1-hour average PM₁₀ time-series for the monitoring period. Again, it shows that there are no exceedances of the 'Action' trigger level and overall, there is good agreement in the trendline for both monitors.

Summary of results

- 2.7 There were no exceedances of the 15-minute or 1-hour mean PM₁₀ trigger levels during the monitoring period, and overall, there is good agreement in the trendline for both monitors, which suggests there are no significant localised dust sources in close proximity to either monitor.
- 2.8 This monitoring period includes data during the COVID-19 lockdown period which came into force on the 23rd March 2020.
- 2.9 No works have commenced on site and the results presented relate to the baseline monitoring period for March 2020.

Figure 1: Map of monitoring locations



Legend

-  Site Boundary
-  Dust Monitors

Figure 2: Monitor 1 – SW Residential

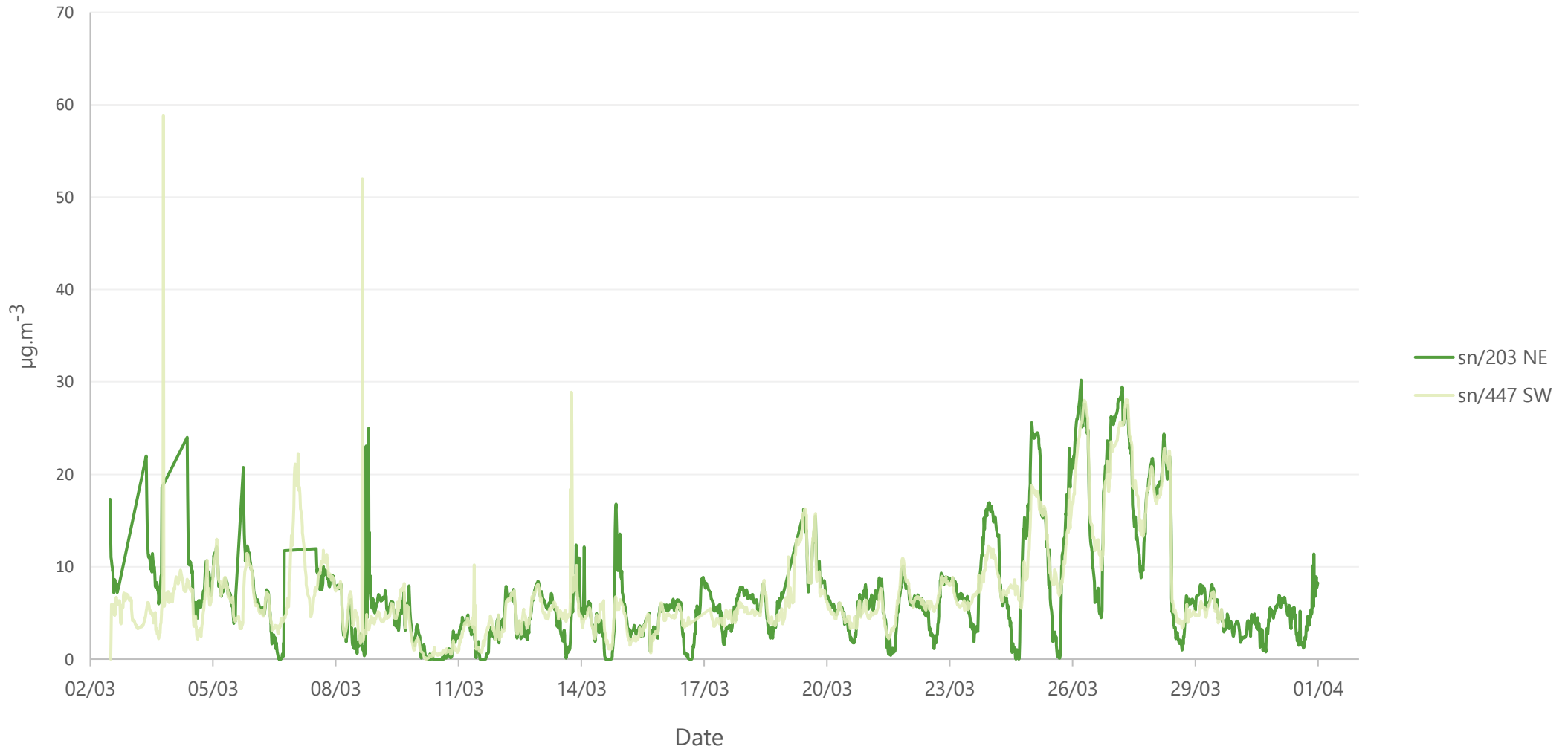


Figure 3: Monitor 2 – NE Courtyard



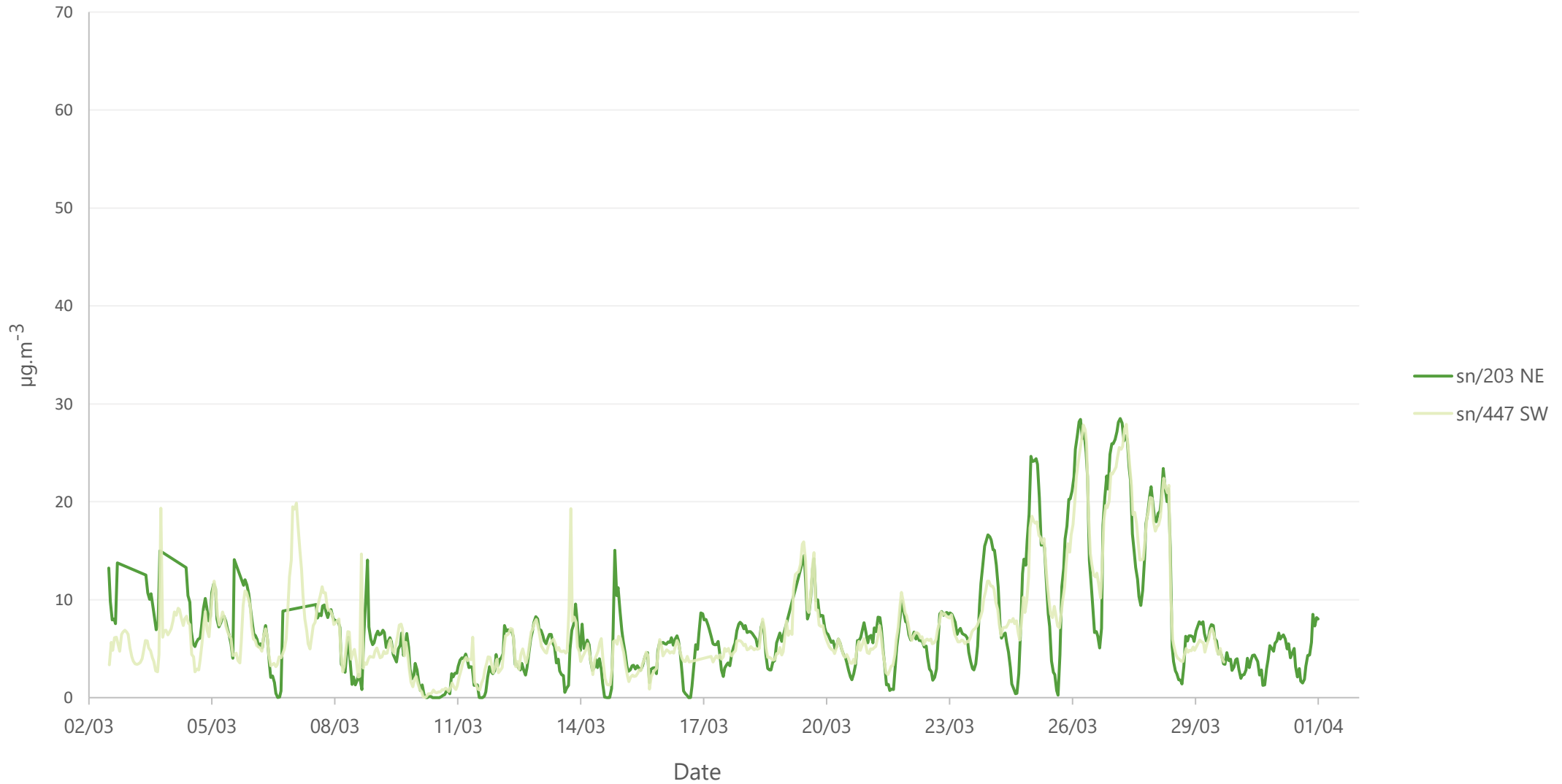
Graph 1: 15-minute mean time-series

Dust Monitoring at Highgate Newtown Community Centre (15 Minute Averages for PM₁₀)



Graph 2: 1-hour mean time-series

Dust Monitoring at Highgate Newtown Community Centre (Hourly Averages for PM₁₀)





Phlorum Limited

Head Office & Registered Office:

Unit 12
Hunns Mere Way
Woodingdean
Brighton
East Sussex
BN2 6AH
T: 01273 307 167

Northern Office:

Ground Floor
Adamson House
Towers Business Park
Wilmslow Road
Didsbury
Manchester
M20 2YY
T: 0161 955 4250

Western Office:

One Caspian Point
Pierhead Street
Cardiff Bay
Cardiff
CF10 4DQ
T: 029 2092 0820

info@phlorum.com
www.phlorum.com