Report: July 2022

MONTHLY DUST MONITORING REPORT

Construction Stage: Construction

Contract

Agar Phase 1C (T19 075)

Client

Camden Council

Site Address:

Agar Grove, Camden NW1 9SS

Monitoring report for the period

1st - 29th July 2022

DISTRIBUTION

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Approved by : **Danny Man** Signed D. Man Date 29/07/22

1.0 Introduction

1.1 London Borough of Camden requirements

Camden's requirements for dust monitoring and control measure are covered in contract document Appendix 32 Air Quality Report rev 2, dated 2013 (Project ref: 28732/004), Employers Requirements & Contract documents. These have been reviewed and covered in our CMP and Dust Policy as per previous phase (Phases 1A and Phase 1B). These requirements are triggered when an Air Quality Assessment (AQA) for a proposed development finds that there is a medium or high risk of dust impacts (without considering mitigation measures) during demolition or construction.

Dust monitoring can be used to enable effective on-site management of the air quality impacts of demolition and construction activities through comprehensive preventative dust mitigation and, in the case of triggering a dust alert from the monitoring equipment, through the application of additional reactive dust mitigation measures.

Ultimately, the purpose of dust monitoring is to ensure that the air quality impacts of demolition and construction activities are minimised as far as possible for the protection of amenity and health, both for local residents, the general public, and operatives on-site.

1.2 Development information

As stated in our Construction Management Plan Hill will undertake noise and dust monitoring during the demolition and construction of the residential development of Agar Phase 1C, NW1, London. The site location is shown in Appendix A.

Planning permission for the site was granted by Camden Council on 4th August 2014 (planning reference 2019/4280/P) subject to a number of planning conditions. Of relevance to this report are air quality (planning condition DP32).

The working hours for demolition and construction activities, as detailed in the planning permission, are presented below:

- Monday to Friday: 8am – 6pm
- Saturday: 8am – 1pm
- Sunday and Public Holidays: no work permitted

Dust monitoring is being undertaken in order to protect nearby sensitive receptors from the effects of dust exposure as a consequence of the ongoing construction works.

This report presents the monthly results of the dust monitoring during the report period and highlights any exceedance of the trigger/action levels.

A 24-Hour phone hotline has been set up so that residents can complain about high dust or PM10 levels directly to Hill displayed on newsletters & our hoarding.

Danny Man
Project Manager

Contact our resident and community liaison team

☎ 0800 032 6760 (free phone) 8am to 8pm, seven days a week

✉ residents@hill.co.uk

The Power House
Gunpowder Mill
Powdermill Lane
Waltham Abbey
Essex, EN9 1BN

Registered site
www.ccscheme.org.uk

2.0 Site updates and works taken place during this monitoring period

Camden issued Hill with vacant site possession on 8th February 2021.

As previously agreed on phases 1A & 1B with the 'Air Quality' and 'Planning' departments of Camden Council, the dust monitors have installed as per locations shown in appendix A.

- Works in progress within the report period:
- Reinforcement concrete frame which is up to 5th floor/ roof level
- Scaffold
- Blockwork
- Mechanical & Electrical 1st fix
- Picture of overview below

3.0 Monitoring summary for the report period

There were (xxx) exceedances of the 15-min site action trigger level, and no exceedances of the one-hour site action trigger levels at monitoring position 1, 2, 3 and 4.

4.0 Methodology

(xxx)

4.1 Monitoring equipment

For dust (PM10) monitoring at the Agar Phase 1C site, we have been using Turnkey Osiris dust monitors at four locations. These monitors were last serviced and calibrated on 19th May 2021 (next service due date is 19th May 2022).

4.2 Monitoring locations

The monitoring locations are shown on the site plan in appendix A which are located within the four corners of the site.

Measurement Position 1: PM10 dust monitor 01 (TNO3649) is located by the site turnstile adjacent Wrothem road and residents at Cranborne. This is installed inside the timber hoarding at level 32.210 (2m above current ground level).

Measurement Position 2: PM10 dust monitor 02 (TNO3650) is located by block I adjacent Lulworth and Hazelbury way 1-7. This is installed inside the timber hoarding at level 31.824 (2m above current ground level).

Measurement Position 3: PM10 dust monitor 03 (TNO4124) is located by block I adjacent Agar Grove. This is installed inside the timber hoarding at level 33.140 (2m above current ground level).

Measurement Position 4: PM10 dust monitor 04 (TNO3651) is located by block JKL adjacent Agar Grove, tree protection zone by the zebra crossing to Nisa Local. This is installed inside the timber hoarding at level 34.380 (2m above current ground level).

4.3 Trigger and action levels

As per previous phases our early warning 'alert' and 'action' levels have been set and are presented in table below. The incident response procedure should a trigger or action level be exceeded is presented in the CMP/ dust policy.

Table 1 - Trigger and Action Level for PM10

Trigger / Action Level	Trigger / Action Dust Level (µg/m3)
Alert level (as a 15 minute average)	150 µg/m3
Action Level (as a 15 minute average)	250 µg/m3
Action Level (as a 1-hour average)	190 µg/m3

5.0 Dust monitoring results

A summary of hourly average PM10 levels is presented in Tables 1 to 4 below for Measurement Positions 1 to 4.

Table 1: Summary of dust monitoring results (Measurement Position 1)

W/C	Max (µg/m3)	Min (µg/m3)	Average (µg/m3)	Number of Exceedance≥ 190µg/m3 (1 Hour Mean)	Number of Exceedance ≥ 150 µg/m3 Trigger Level	Number of Exceedance ≥ 250 µg/m3 Action Level	Data Capture (%)
01/07/22	0	0	0	0	0	0	100%
04/07/22	0	0	0	0	0	0	100%
11/07/22	0	0	0	0	0	0	100%
18/07/22	0	0	0	0	0	0	100%
25/07/22							

Table 1: Summary of dust monitoring results (Measurement Position 2)

W/C	Max (µg/m3)	Min (µg/m3)	Average (µg/m3)	Number of Exceedance≥ 190µg/m3 (1 Hour Mean)	Number of Exceedance ≥ 150 µg/m3 Trigger Level	Number of Exceedance ≥ 250 µg/m3 Action Level	Data Capture (%)
01/07/22	0	0	0	0	0	0	100%
04/07/22	0	0	0	0	0	0	100%
11/07/22	0	0	0	0	0	0	100%
18/07/22	0	0	0	0	0	0	100%
25/07/22	0	0	0	0	0	0	100%

Table 1: Summary of dust monitoring results (Measurement Position 3)

W/C	Max (µg/m3)	Min (µg/m3)	Average (µg/m3)	Number of Exceedance≥ 190µg/m3 (1 Hour Mean)	Number of Exceedance ≥ 150 µg/m3 Trigger Level	Number of Exceedance ≥ 250 µg/m3 Action Level	Data Capture (%)
01/07/22	0	0	0	0	0	0	100%
04/07/22	0	0	0	0	0	0	100%
11/07/22	0	0	0	0	0	0	100%
18/07/22	0	0	0	0	0	0	100%
25/07/22	0	0	0	0	0	0	100%

Table 1: Summary of dust monitoring results (Measurement Position 4)

W/C	Max (µg/m3)	Min (µg/m3)	Average (µg/m3)	Number of Exceedance≥ 190µg/m3 (1 Hour Mean)	Number of Exceedance ≥ 150 µg/m3 Trigger Level	Number of Exceedance ≥ 250 µg/m3 Action Level	Data Capture (%)
01/07/22	0	0	0	0	0	0	100%
04/07/22	0	0	0	0	0	0	100%
11/07/22	0	0	0	0	0	0	100%
18/07/22	0	0	0	0	0	0	100%
25/07/22	0	0	0	0	0	0	100%

6.0 Dust monitoring conclusions

(xxx)

6.1 15-minute average period

The results presented in section 5 indicate that during the monitoring period there were no exceedances of the 15-minute alert level and no exceedances of the action level at Measurement Positions 1-4.

Table: Summary of dust exceedance (Measurement Position) Trigger and action level

Exceedance date	Maximum Concentrations (µg/m3)	Exceedance of 150 (µg/m3) Trigger Level (Y/N)	Exceedance of 250 (µg/m3) Action Level (Y/N)	During Working Hours (Y/N)
NA	NA (Monitor 00)	N (Monitor 00)	N (Monitor 00)	N (Monitor 00)
NA	NA (Monitor 00)	N (Monitor 00)	N (Monitor 00)	N (Monitor 00)
NA	NA (Monitor 00)	N (Monitor 00)	N (Monitor 00)	N (Monitor 00)
NA	NA (Monitor 00)	N (Monitor 00)	N (Monitor 00)	N (Monitor 00)

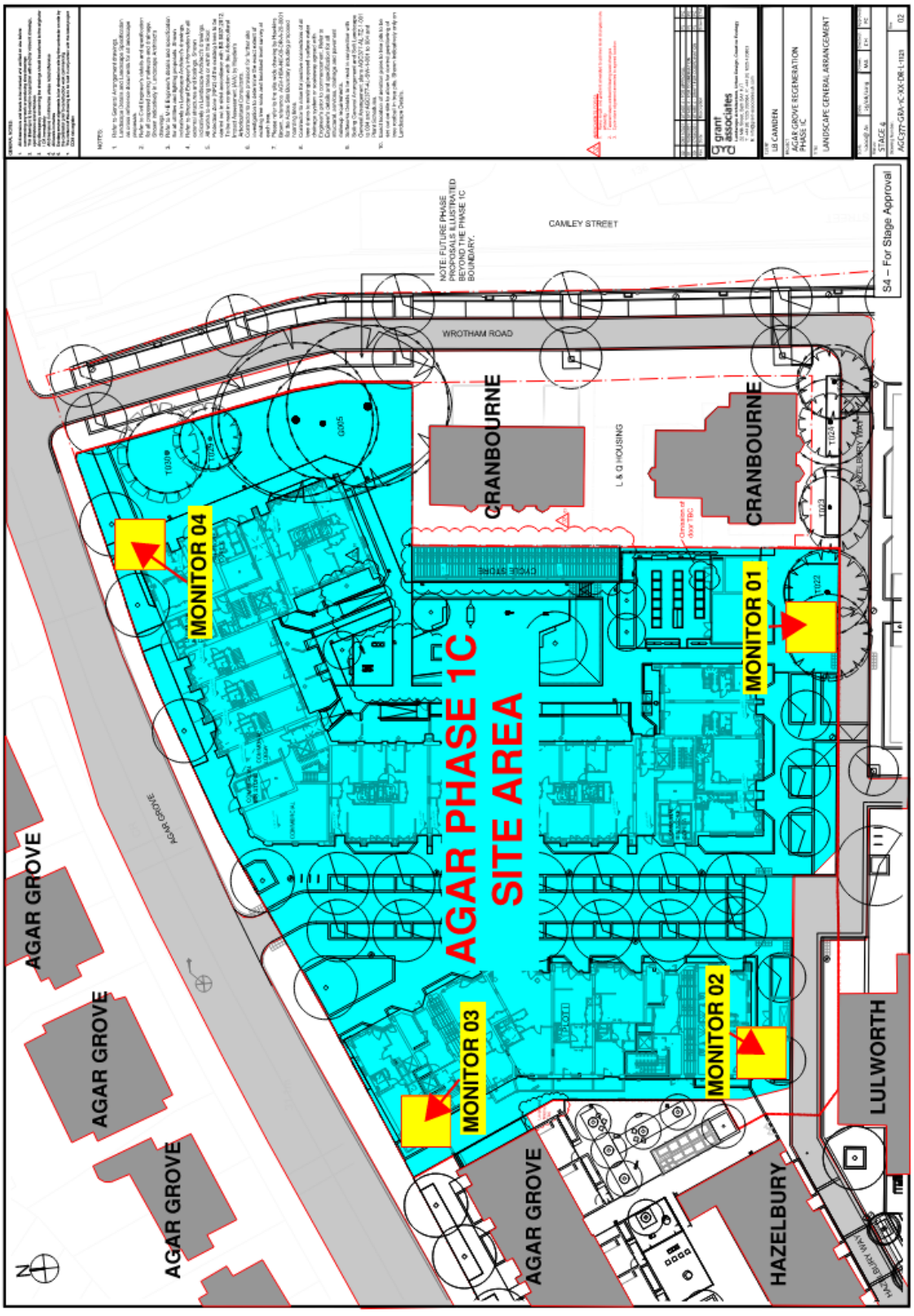
6.2 One-hour average period

The results presented indicate that during the monitoring period there (xxx) of the 24-hour limit value for PM10 (150µg/m3) at Measurement Position 1-4

6.3 24-hour average period

The results presented indicate that during the monitoring period there (xxx) of the 24-hour limit value for PM10 (50µg/m3) at Measurement Position 1-4

Appendix A: Site plan and location of measurement positions



Appendix B: Dust Monitor Photographs

Monitor 1

Monitor 2

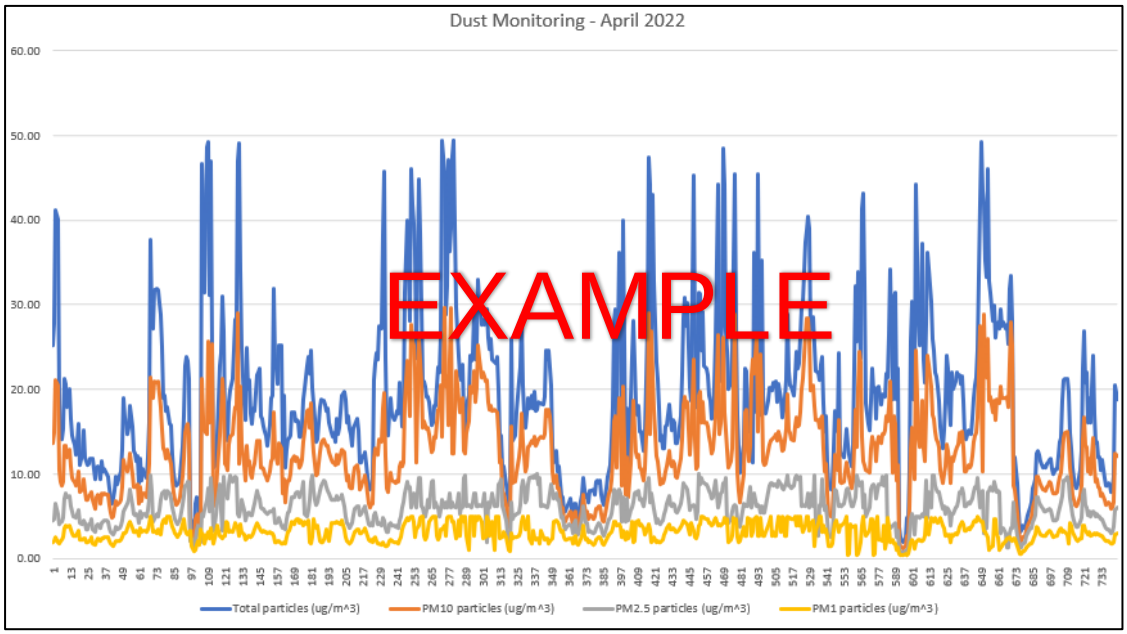
Monitor 3

Monitor 4

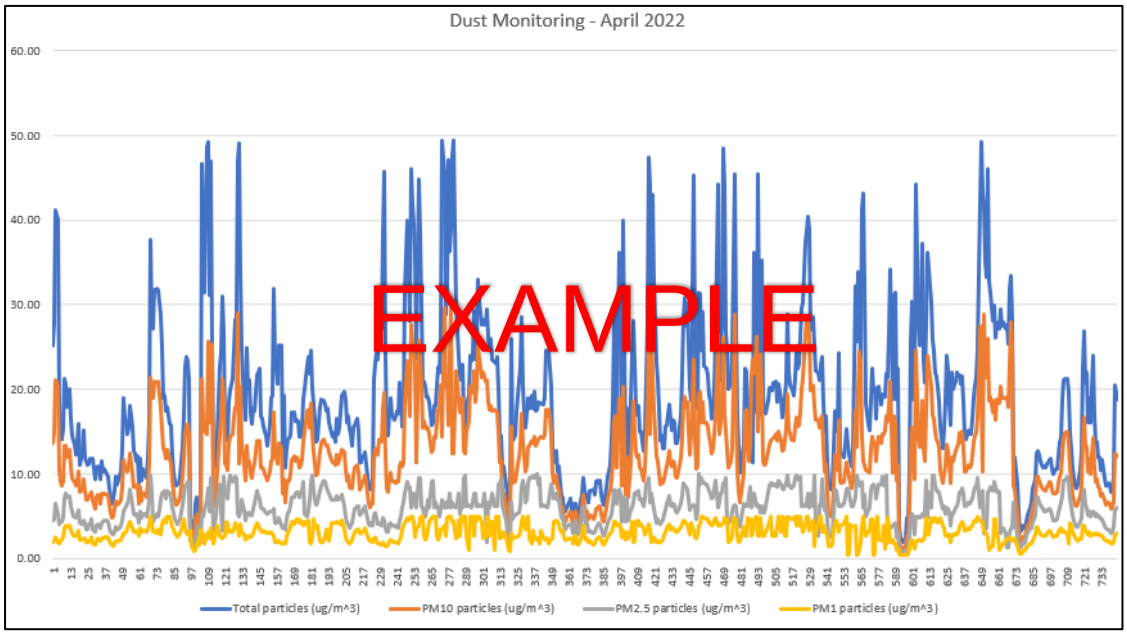
Appendix C: Dust monitoring results:

One-hourly average graphs:

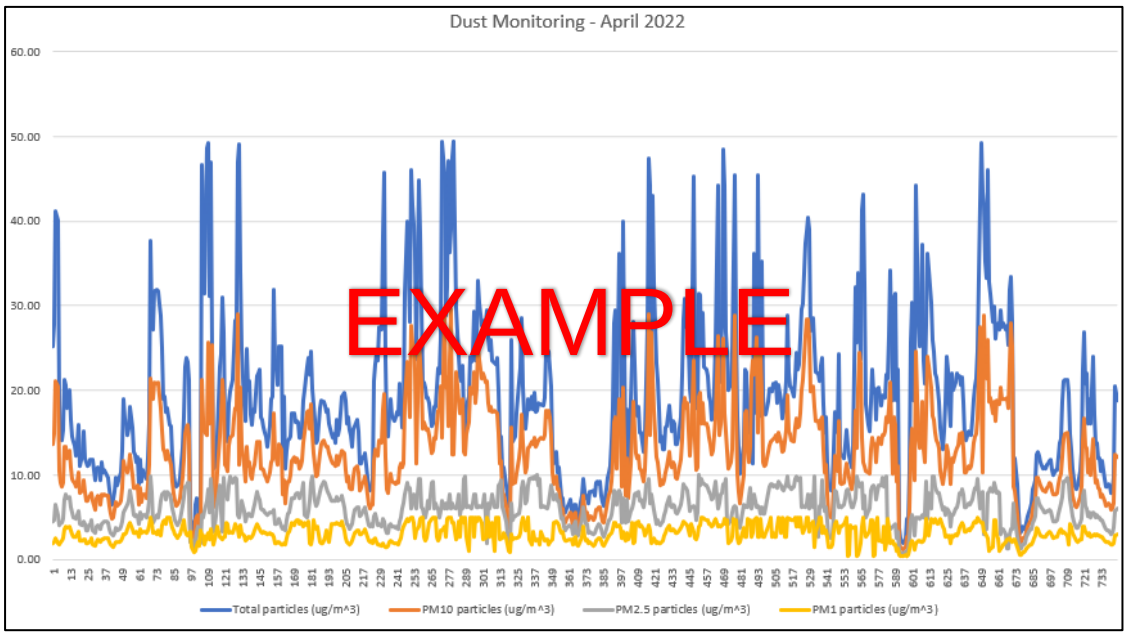
Monitoring point 1



Monitoring point 2



Monitoring point 3



Monitoring point 4