

## Air Quality and Dust Monitoring Monthly Report – June 2025

Birmingham City Council



## Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

High Speed Two (HS2) Limited,  
Two Snowhill  
Snow Hill Queensway  
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: [HS2enquiries@hs2.org.uk](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2025, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v3.0. To view this licence, visit [www.nationalarchives.gov.uk/doc/open-government-licence/version/3](http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3) **OGI** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: [psi@nationalarchives.gsi.gov.uk](mailto:psi@nationalarchives.gsi.gov.uk). Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



# Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken within Birmingham City Council (BCC) during June 2025.
- 1.1.2 Figure 1 to Figure 3 in Appendix A present the current worksites together with the dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from [www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2](http://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2), which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current worksites, as presented in Appendix A, Figure 1 to Figure 3, include:

## **Sublot 4**

### Washwood Heath

- Traffic on main site haul road, including haul road maintenance with excavator, Articulated Dump Trucks (ADTs), dozer and roller to compact.
- Vehicle delivery check area, including reversing vehicles and loading / unloading plant / material deliveries.
- Small tools works installing Vehicle Restraint System (VRS) fencing.
- Stockpile management area including tipping and loading of ADTs and wagons, excavators and dozers.
- Tarmac batching plant operations, including delivery of aggregates, operating plant and concrete wagons.

### Curzon Street

- Pier and deck construction.
- Underground drainage works.
- Tripod dismantling and installations.
- Excavator, tower crane, mobile crane and roller working at site.
- Concrete works.
- Traffic on main site haul road, including haul road maintenance with excavator, roller to compact.
- Vehicle delivery check area, including reversing vehicles and loading / unloading plant / material deliveries.

## **Bromford East Tunnel Portal (Sublot 1B)**

- Operation and maintenance of Tunnel Boring Machine (TBM) 2.

- Operation and maintenance of Slurry Treatment Plant (STP) 1.
- Operation and maintenance of Grout Batching Plant 1 and 2.
- Decommissioning of Slurry Treatment Plant 2.
- Construction of permanent drainage for Head House.
- Construction of the aerodynamic dynamic structure.
- Muck Haulage down the Sublot 1B haul road into Sublot Delta.
- Deliveries of equipment and segments using Heavy Goods Vehicles.

#### Curzon Street Station – Pre-main works

- Stripping of weathering layer
- Pile matt construction
- Installation of temporary haul road.

- 1.1.5 Eight (8) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor, presented in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.
- 1.1.7 The trigger level for PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)*' has been applied.
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 3.
- 1.1.9 Data capture was below 90% for the WHD003 monitor due to a fault investigation site visit was done on 26th June 2025.
- 1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

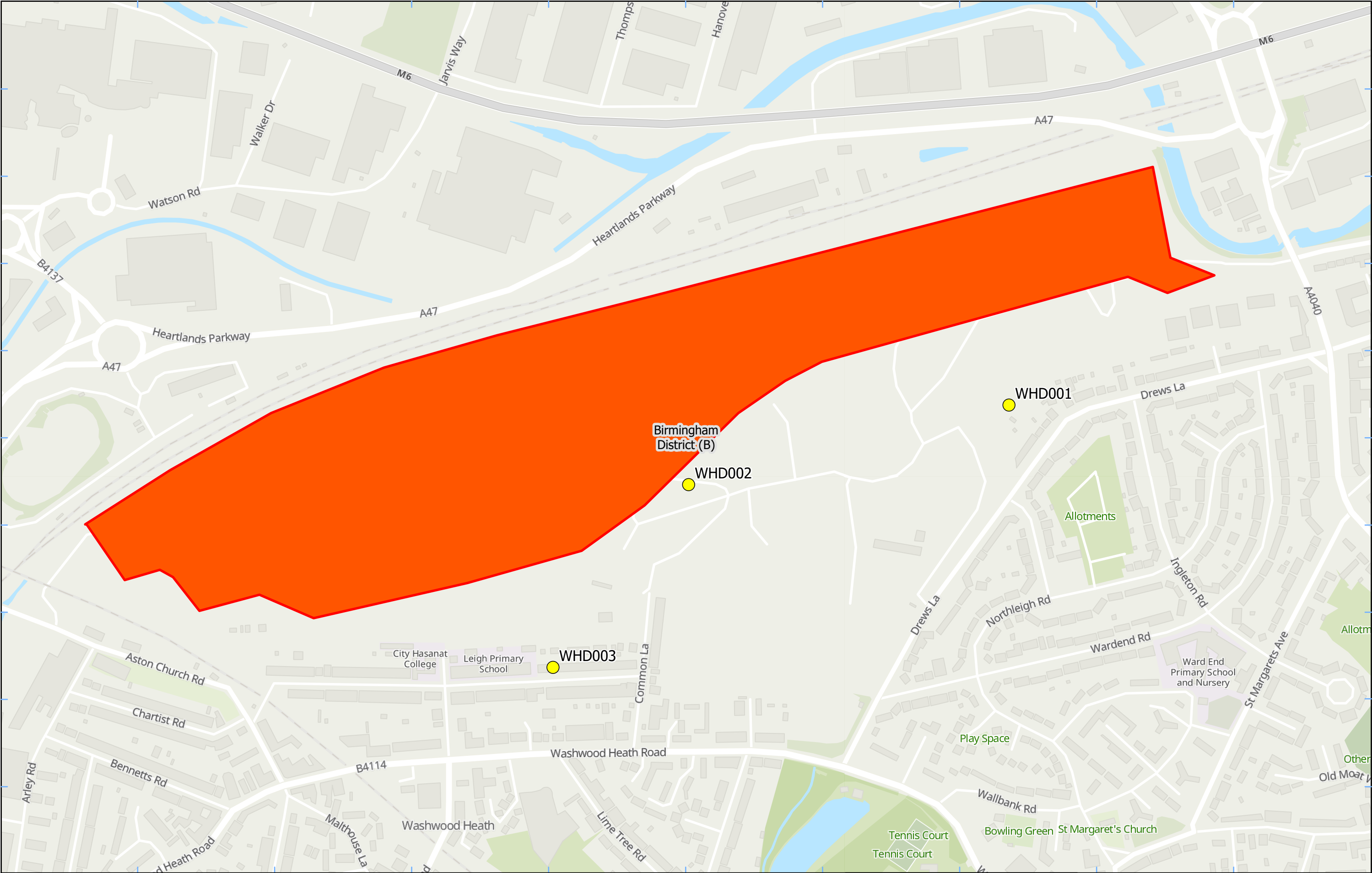
Table 1: Summary of complaints received during June 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46496-C	N/A	Car covered in dust.	Still under investigation at the time of running report.
HS2-25-46517-C	N/A	Dust on personal property.	All mitigation measures in place to reduce dust on site, all monitors checked no



			exceedances recorded. Sahara dust events have affected most of the UK leaving a reddish residue. Resident has been informed.
--	--	--	--


# Appendix A – Worksites and Monitoring Locations

Figures 1 - 3: Worksites and Monitoring Locations within BCC



**Legend**

 District Borough Unitary Boundaries  Worksite


 Dust Monitor

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023  
Contains data from OS Zoomstack

Map Number

Map Name  
**Worksite and Monitoring Locations  
In BCC (Sheet 1)**


**Birmingham City Council**



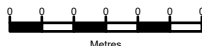
Registered in England. Registration number 06791686.  
Registered office: 2 Snowhill, Queensway,  
Birmingham B4 6GA.

© Crown copyright and database rights 2024.  
Ordnance Survey Licence Number 100049190.

**Doc Number:**



Scale at A3: 1:5,000



Metres

**Date: 22/01/24**



**Legend**

District Borough Unitary Boundaries Worksite

Dust Monitor

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023  
Contains data from OS Zoomstack

Map Number

Map Name

**Worksite and Monitoring Locations  
In BCC (Sheet 2)**

**Birmingham City Council**

HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.  
Registered office: 2 Snowhill, Queensway,  
Birmingham B4 6GA.

© Crown copyright and database rights 2024.  
Ordnance Survey Licence Number 100049190.

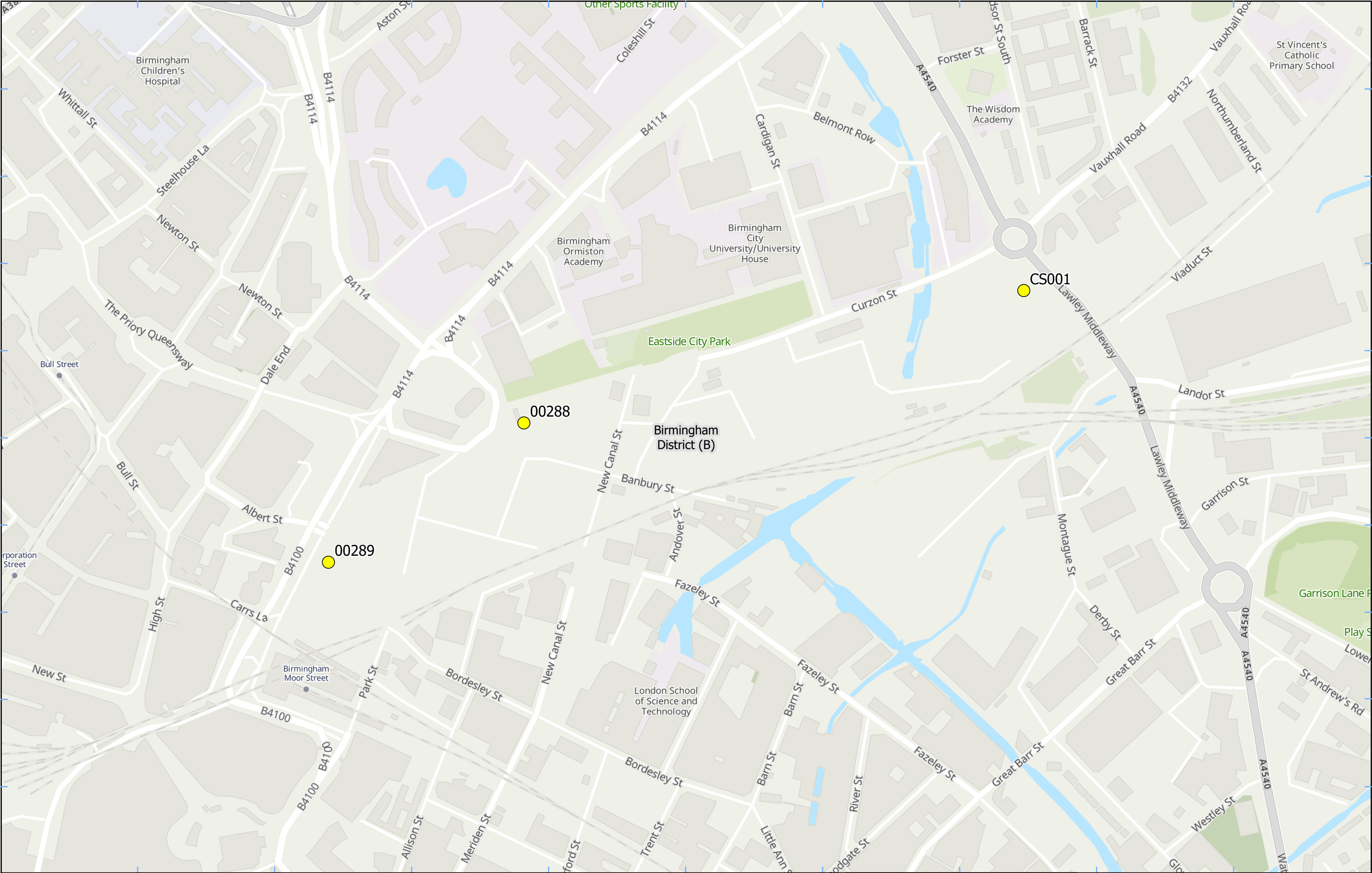
**Doc Number:**

Scale at A3: 1:4,000


Metres


**Date: 22/01/24**







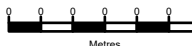
**Legend**

 Dust Monitor

 District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023  
Contains data from OS Zoomstack

Map Number
Map Name
<b>Monitoring Locations In BCC (Sheet 3)</b>
<b>Birmingham City Council</b>

 <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>	<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> 
<small>© Crown copyright and database rights 2024. Ordnance Survey Licence Number 100049190.</small>	<small>Scale at A3: 1:4,000</small>  <small>Metres</small>
<b>Doc Number:</b>	<b>Date: 02/07/24</b>

## Appendix B – Dust Monitoring Results

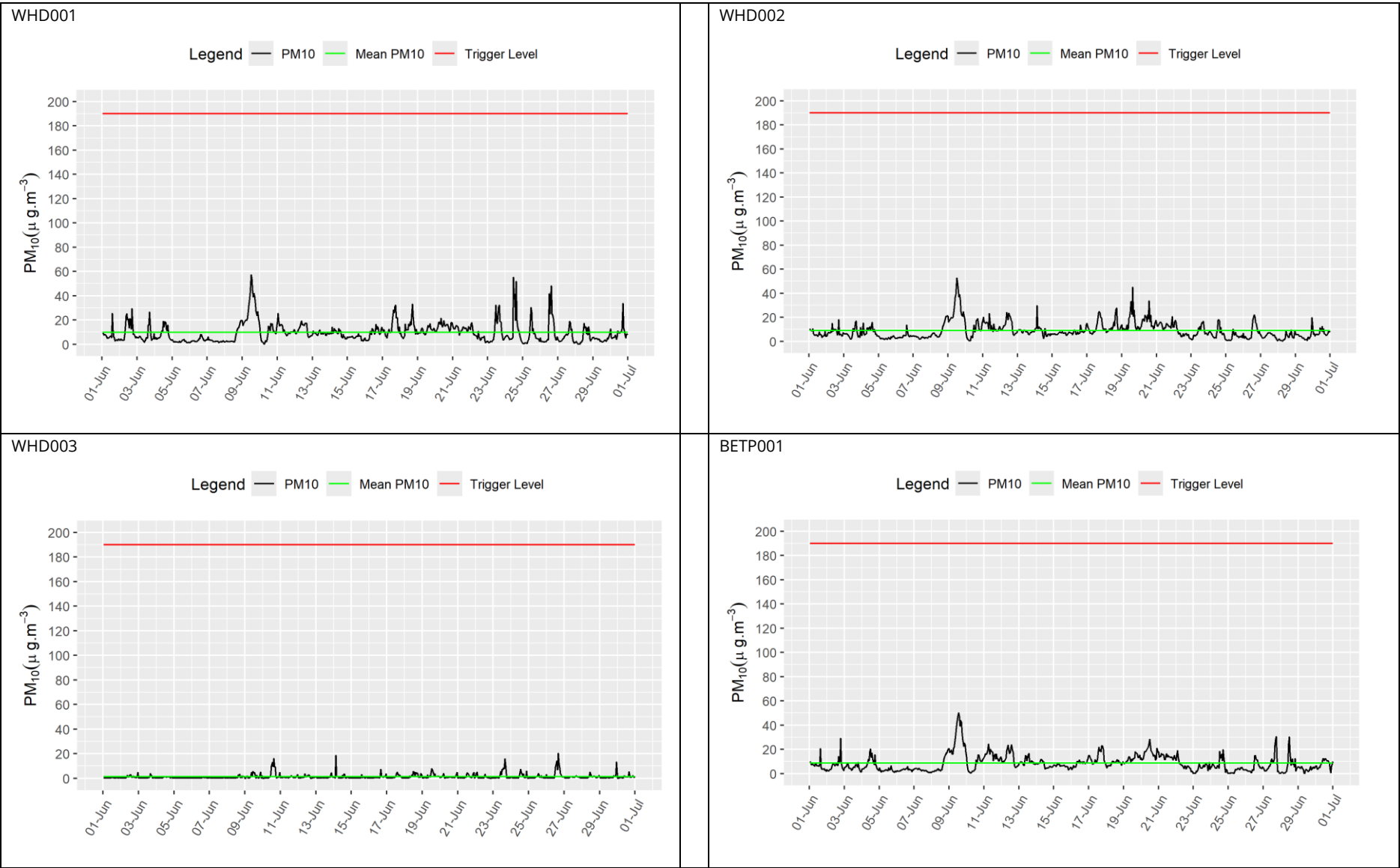
Table 2: Dust Monitoring Locations and Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM10 concentration (µg/m3)	Minimum 1-hour PM10 concentration (µg/m3)	Maximum 1-hour PM10 concentration (µg/m3)	Number of 1-hour periods exceeding trigger level of 190 µg/m3	Data capture (%)
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	M	Yes	No	9.7	0.1	57.1	0	100.0
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	9.0	0.1	52.6	0	100.0
WHD003	410562, 288866	Washwood Heath Depot, near receptors on Warren Road	M	Yes	No	1.2	0.1	20.4	0	86.7
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	8.7	0.1	50.0	0	99.7
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	8.2	0.7	49.2	0	100.0
CS001	408254, 287210	University Locks, Curzon Street	M	Yes	No	10.2	0.2	57.0	0	100.0
00288	407676, 287057	Curzon St – East Side City Park	M	Yes	No	8.4	0.1	105.6	0	93.6
00289	407450, 286896	Curzon St – Moor St Queensway	M	Yes	No	11.1	1.0	236.6	1	99.2

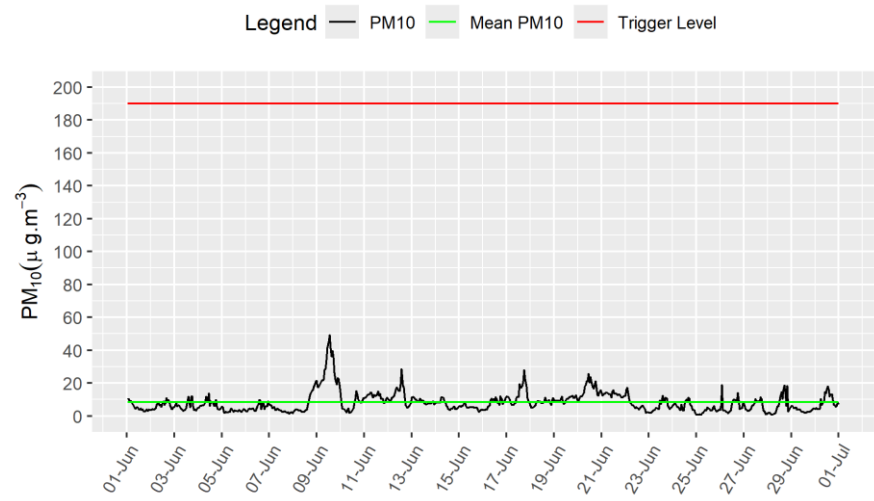
Table 3: Summary of exceedances during period (June 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
00289	19/06/2025 13:01 – 14:00; 236.6 µg/m <sup>3</sup>	At the time of the trigger no significant dust visible on site and dust management controls were in operation (dust cannons and bowsers on haul roads).	Controls already in place to manage dust on site during warm weather.

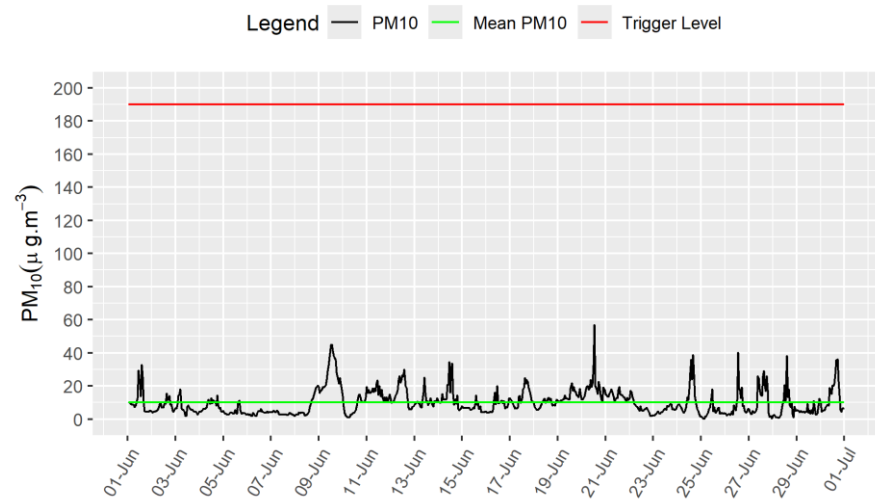
Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



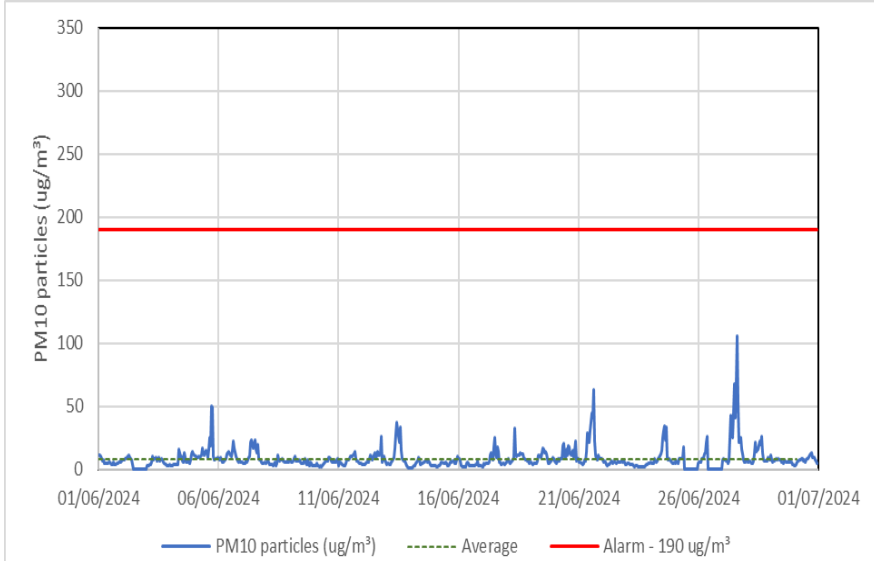
BETP002



CS001



00288



00289

