

## Air Quality and Dust Monitoring Monthly Report – November 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.

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

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# 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 November 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, ADTs, dozer and roller to compact.
- Vehicle delivery check area, including reversing vehicles and loading/unloading plant/material deliveries.
- Installing drainage line close to site hoarding
- De-veg works along site boundary
- Stockpile management and crushing/screening activities
- Tarmac batching plant operations, including delivery of aggregates, operating plant and concrete wagons.

### Curzon Street

- Underground drainage works
- Tripod dismantling and installations
- Excavators, Mobile crane, Roller, Dumper working at site
- Pier construction works
- 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)**

- STP1 de-commissioning
- Supporting Deliveries
- Site Generator
- Site offices - maintenance/deliveries etc.
- Road sweeping & Dust suppression
- Operation of 1 No. Mechanical Workshop
- Muck away to SL Delta – Haul Roads
- Operation of TBM material store
- Aerodynamic Structure
- Building Construction: Tower Crane operation
- Tunnel strip out (including ground treatment and batching plant operation)
- Concrete batching plant operational 24/7.

### **Curzon Street Station**

- Installation of bearing and secant piles
- Import of materials required for piling activities
- Export of excavated materials – including commencement of bulk dig
- Earthworks required for installation of site compound
- Excavation and construction of pile caps
- Movement and stockpiling of excavated materials within the site boundary.

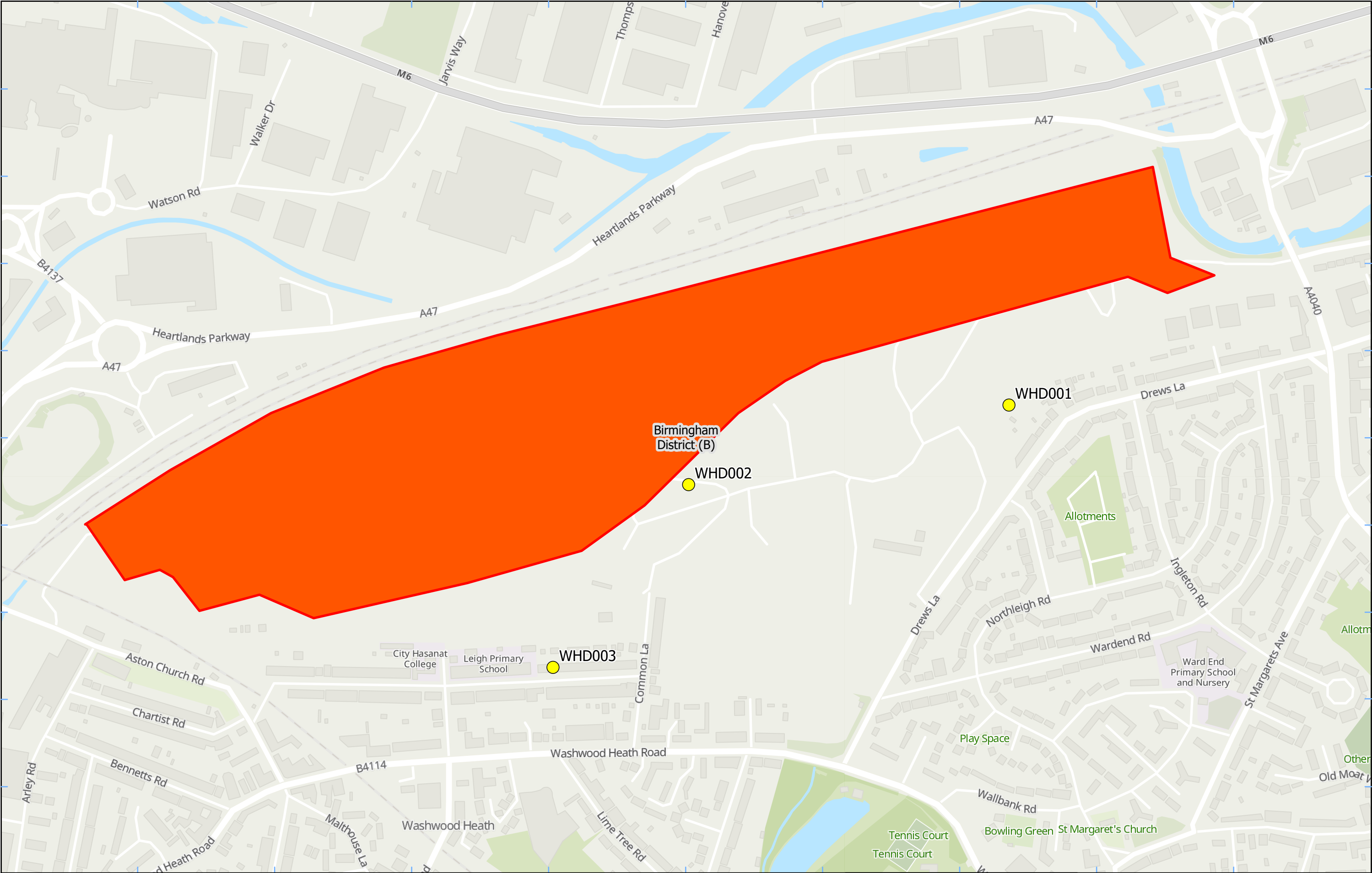
- 1.1.5 Eight (8) dust monitors are installed around these worksites, where works are underway. These sites returned a low to high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented 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 2.
- 1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor BETP001 – The solar panel was damaged at this monitor. A new solar system was installed on 18th November 2025, after which the issues were resolved.
- Monitor WHD002 - A battery refresh took place on 1st December 2025. After the site visit, the issues were resolved.

1.1.10 There were no (0) complaints received during the reporting period (November 2025).

# Appendix A – Worksites and Monitoring Locations

Figures 1 - 3: Worksites and Monitoring Locations within BCC



**Legend**

District Borough Unitary Boundaries Worksite

Dust Monitor

Map Number

Map Name

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

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Metres

**Date: 22/01/24**

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**Legend**

District Borough Unitary Boundaries Worksite

Dust Monitor

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Map Number

Map Name

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

**Birmingham City Council**

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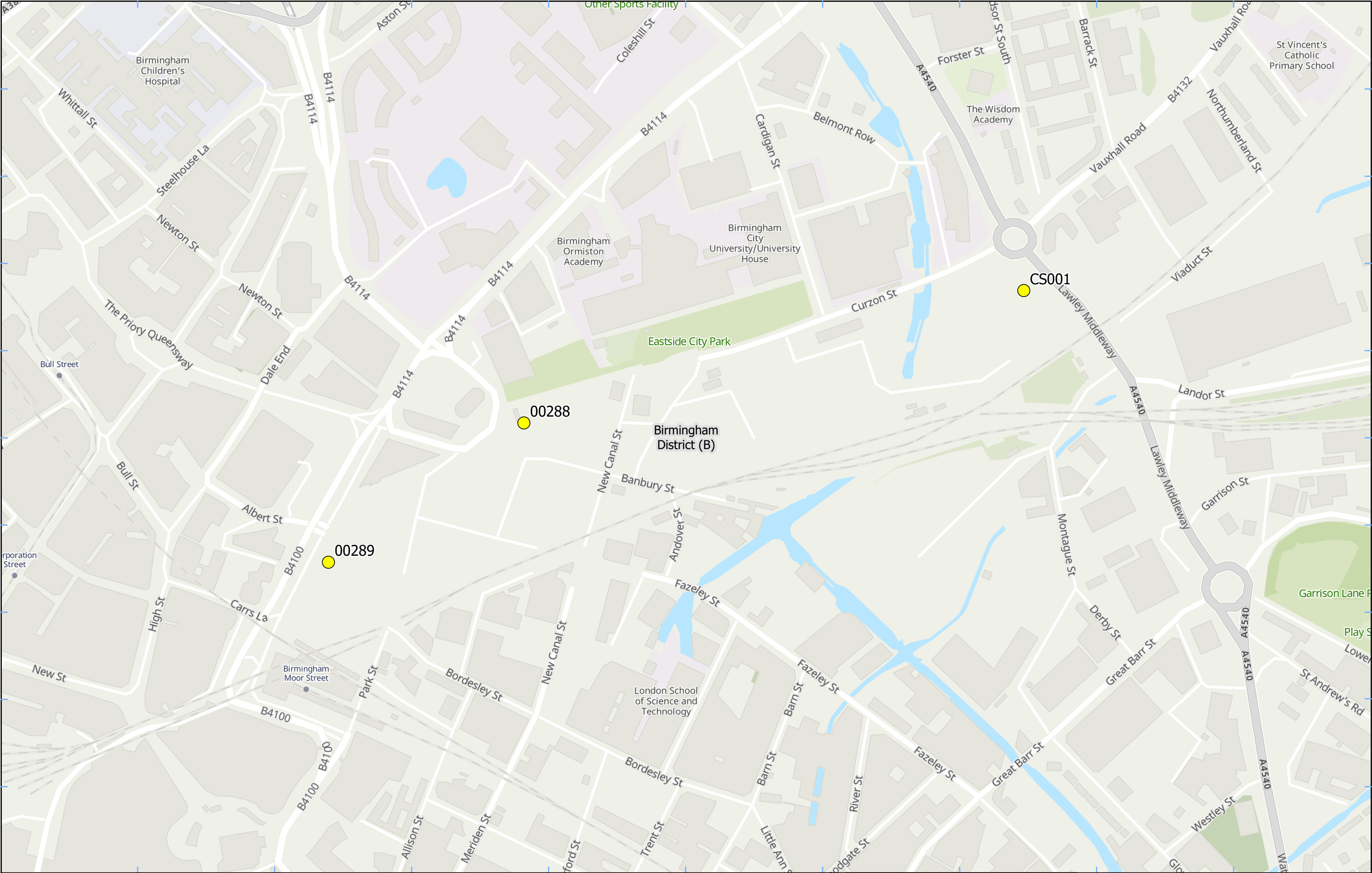
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Metres


**Date: 22/01/24**







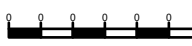
**Legend**

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number
Map Name
<b>Monitoring Locations In BCC (Sheet 3)</b>
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Doc Number:

## Appendix B – Dust Monitoring Results

Table 1: 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	1.6	0.1	18.0	0	97.8
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	6.1	0.2	41.5	0	93.6
WHD003	410562, 288866	Washwood Heath Depot, near receptors on Warren Road	M	Yes	No	1.0	0.1	29.4	0	90.0
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	1.9	0.1	14.2	0	38.5
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	2.6	0.1	215.5	1	92.1
CS001	408254, 287210	University Locks, Curzon Street	M	Yes	No	0.7	0.1	32.0	0	96.9
00288	407676, 287057	Curzon St – East Side City Park	H	Yes	No	10.7	0.6	54.6	0	93.8
00289	407450, 286896	Curzon St – Moor St Queensway	H	Yes	No	60.1	3.2	395.9	19	99.4

Table 2: Summary of exceedances during period (November 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
BETP002	08/11/2025 20:01 – 21:00; 215.5 µg/m <sup>3</sup>	Caused by bonfires in the area.	N/A
00289	09/11/2025 00:01 – 01:00; 220.0 µg/m <sup>3</sup> 01:01 – 02:00; 362.1 µg/m <sup>3</sup> 02:01 – 03:00; 283.6 µg/m <sup>3</sup> 03:01 – 04:00; 317.6 µg/m <sup>3</sup> 04:01 – 05:00; 229.6 µg/m <sup>3</sup> 05:01 – 06:00; 230.4 µg/m <sup>3</sup> 06:01 – 07:00; 263.2 µg/m <sup>3</sup> 07:01 – 08:00; 266.7 µg/m <sup>3</sup>  11/11/2025 07:01 – 08:00; 206.4 µg/m <sup>3</sup> 08:01 – 09:00; 223.3 µg/m <sup>3</sup> 09:01 – 10:00; 208.4 µg/m <sup>3</sup>  28/11/2025 23:01 – 00:00; 204.4 µg/m <sup>3</sup> 01:01 – 02:00; 192.1 µg/m <sup>3</sup> 04:01 – 05:00; 216.0 µg/m <sup>3</sup> 05:01 – 06:00; 235.8 µg/m <sup>3</sup> 06:01 – 07:00; 227.5 µg/m <sup>3</sup> 07:01 – 08:00; 266.4 µg/m <sup>3</sup> 08:01 – 09:00; 395.9 µg/m <sup>3</sup> 09:01 – 10:00; 207.9 µg/m <sup>3</sup>	Exceedances not a result of works on site.	Monitor 00289 to be investigated due to the high readings despite weather conditions and the comparatively low readings on monitor 00288.

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



