

Air Quality and Dust Monitoring Monthly Report – December 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 December 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, 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 excavators, Articulated Dump Trucks (ADTs), dozers and rollers to compact.
- Vehicle delivery check area, including reversing vehicles and loading / unloading plant / material deliveries.
- Installing drainage line close to site hoarding.
- De-vegetation works along site boundary.
- De-weeding works.
- Stockpile management and crushing / screening activities.
- Tarmac batching plant operations, including delivery of aggregates, operating plant and concrete wagons.

Curzon Street

- No works occurred during December 2025.

Bromford East Tunnel Portal (Sublot 1B)

- STP1 decommissioning.
- Supporting deliveries.
- Site generator.
- Site offices – maintenance / deliveries.
- Road sweeping and 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).

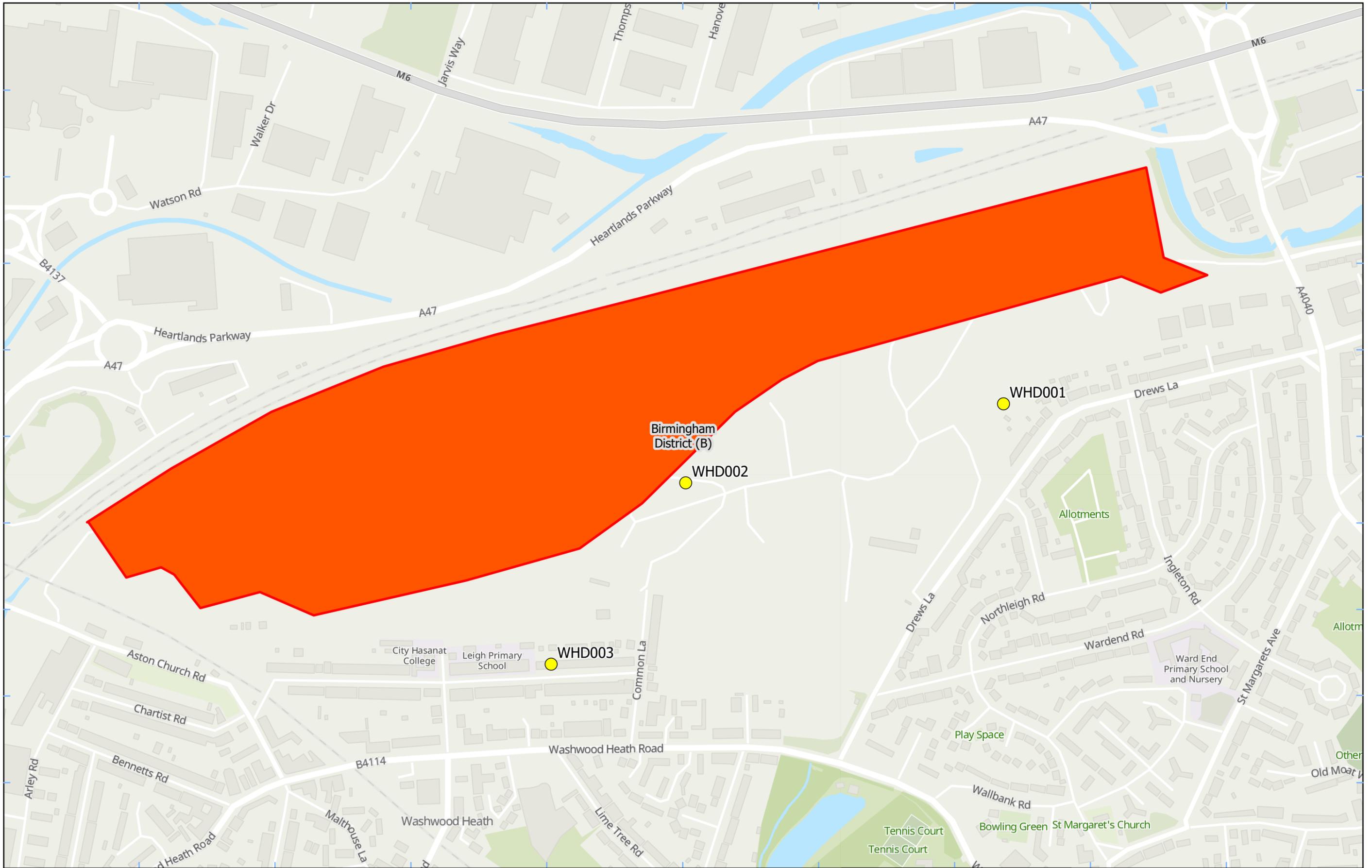
Curzon Street Station – Main works

- 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 PM₁₀ concentrations of 190 µg/m³, 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 No (0) dust trigger alerts were recorded during the monitoring period (December 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- The data for monitor CSS_D_01 prior to 17/12/2025 has been disregarded due to a fault monitor. Both dust monitors were replaced on the 17/12/2025.
 - Monitor BETP001 – A battery refresh is scheduled for 9th January 2026.
 - Monitor BETP002 – A battery refresh is scheduled for 14th January 2026.
 - Monitor WHD002 – A battery refresh is scheduled for 14th January 2026.
 - Monitor CS001 – A monitor swap out took place on 6th January 2026. The technical issues are under investigation.
 - Monitor WHD003 – A dust full workup is being scheduled.
- 1.1.10 There were no (0) complaints received during the reporting period (December 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1 - 3: Worksites and Monitoring Locations within BCC



Legend
 [Red outline] District Borough Unitary Boundaries [Red fill] Worksite
 [Yellow dot] Dust Monitor

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Map Number
 Map Name
**Worksite and Monitoring Locations
 In BCC (Sheet 1)**
 Birmingham City Council


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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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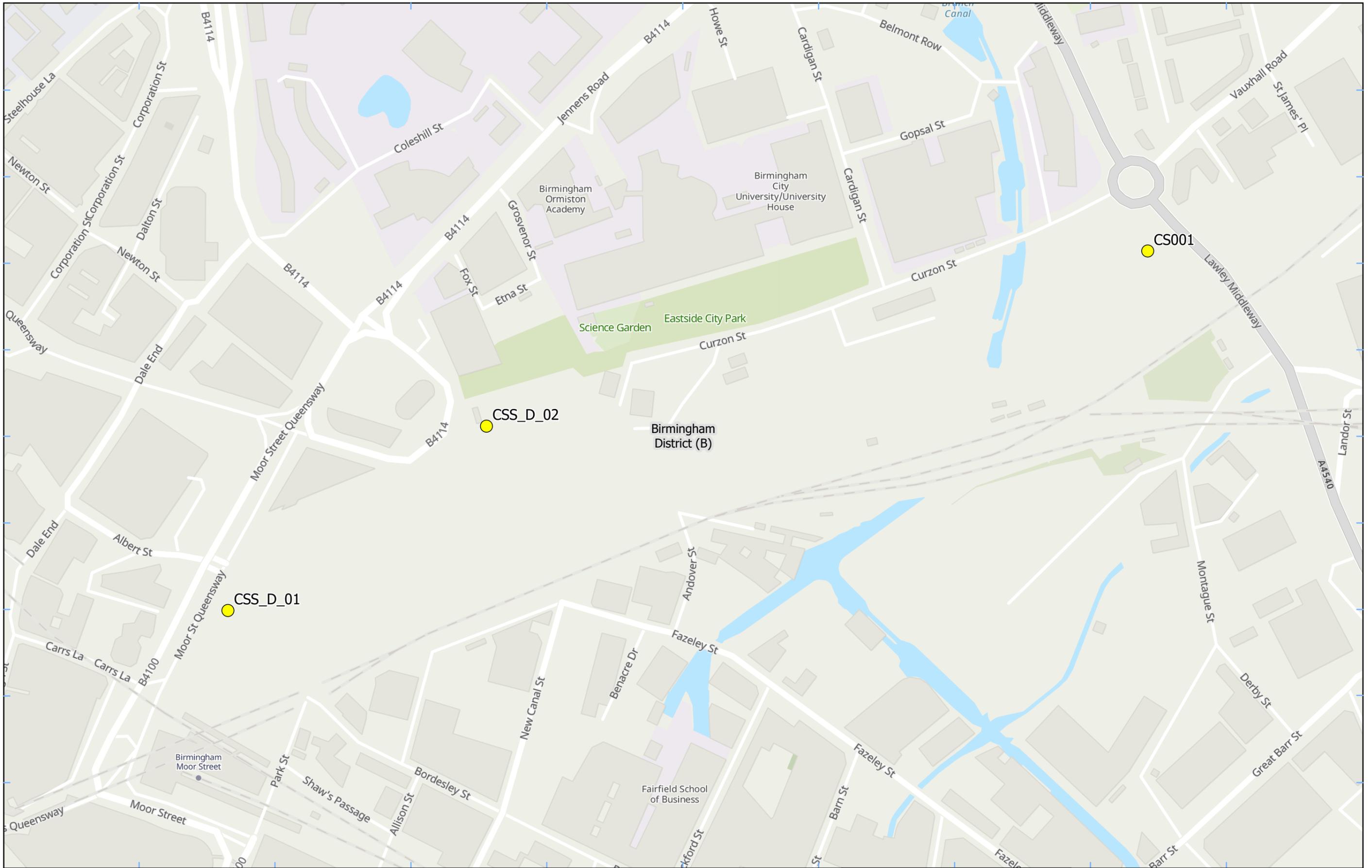
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Legend
 Dust Monitor
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations
 In BCC (Sheet 3)**
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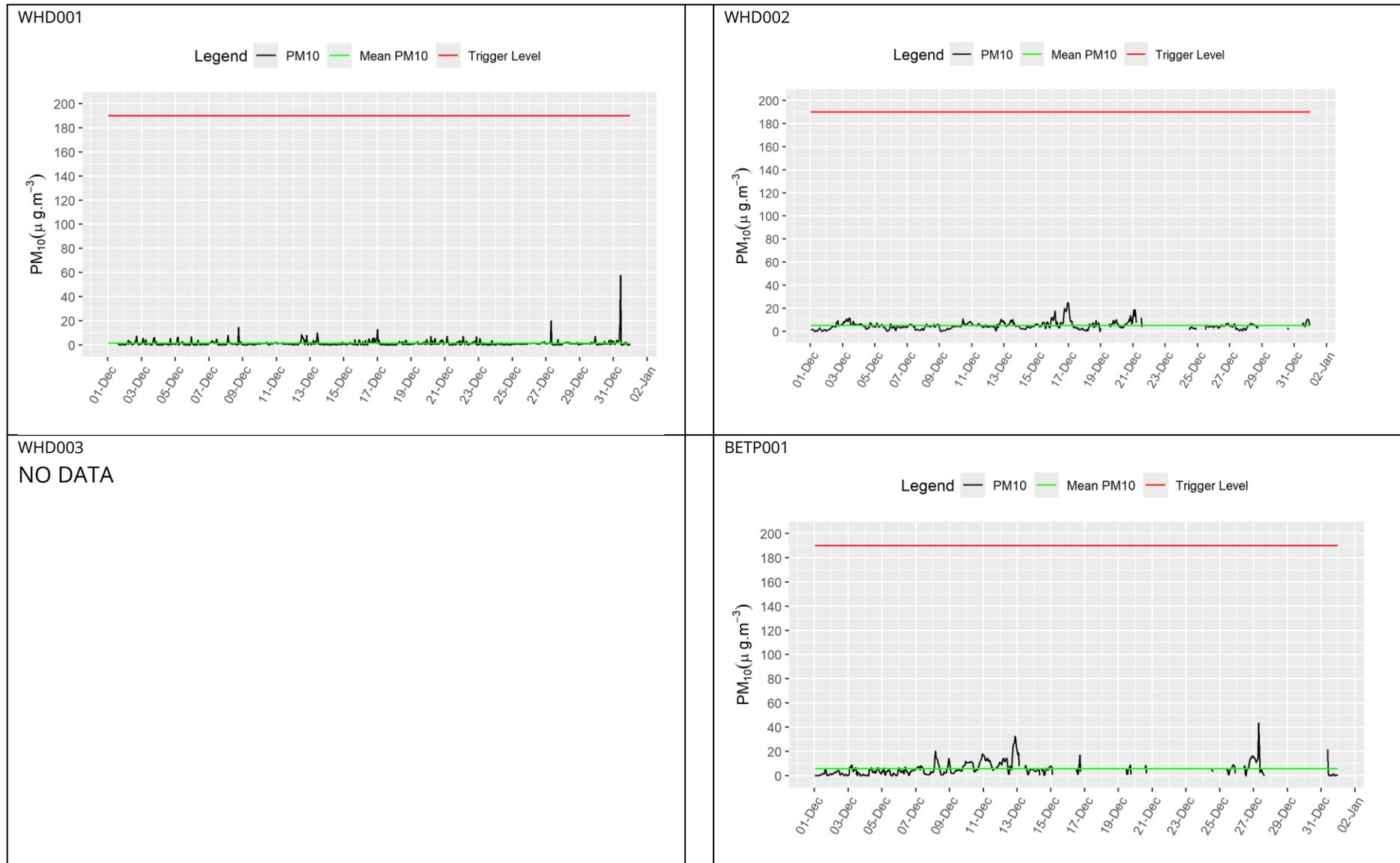
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

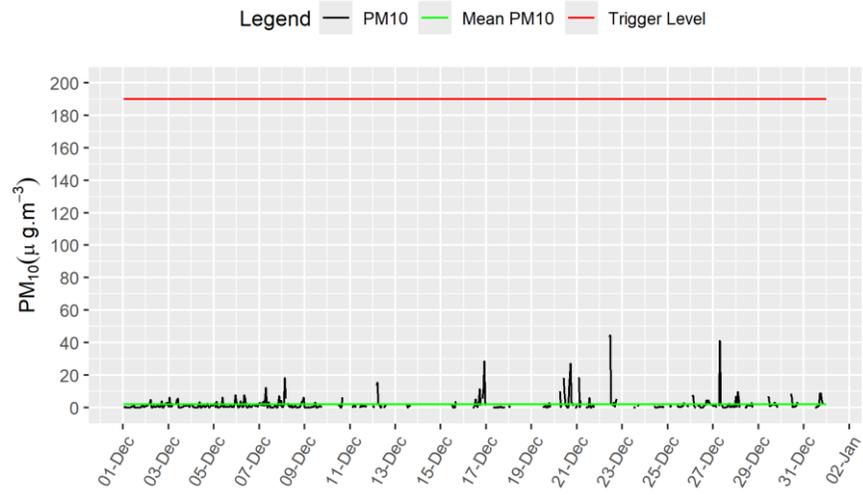
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM10 concentration (µg/m3)	Minimum 1-hour PM10 concentration (µg/m3)	Maximum 1-hour PM10 concentration (µg/m3)	Number of 1-hour periods exceeding trigger level of 190 µg/m3	Data capture (%)
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	M	Yes	Yes	1.5	0.1	57.8	0	96.5
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	5.2	0.1	25.4	0	78.2
WHD003	410562, 288866	Washwood Heath Depot, near receptors on Warren Road	M	Yes	No	-	-	-	-	-
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	5.7	0.1	43.5	0	54.8
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	2.2	0.1	44.7	0	57.3
CS001	408254, 287210	University Locks, Curzon Street	M	Yes	No	-	-	-	-	-
CSS_D_01	407450, 286896	Curzon St – Moor Street Queensway (GL01)	H	Yes	No	12.9	1.0	86.3	0	99.9

CSS_D_02	407676, 287057	Curzon St - East Side City Park (GL7.5/08)	H	Yes	No	17.9	1.7	184.0	0	47.2
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Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



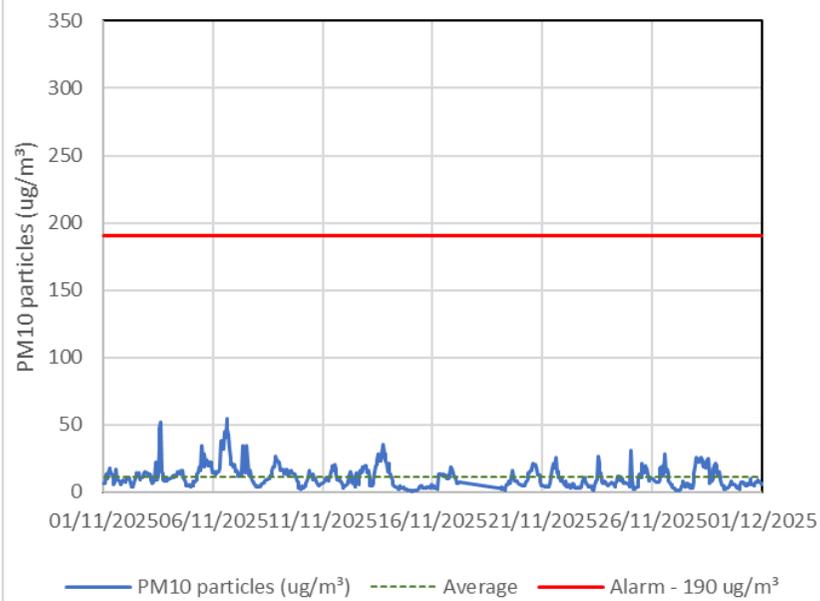
BETP002



CS001

NO DATA

00288



00289

