January 2023



# Air Quality and Dust Monitoring Monthly Report - January 2023

Birmingham City Council



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

Website: www.gov.uk/hs2

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 air quality and dust monitoring undertaken within Birmingham City (BCC) during January 2023.
- 1.1.2 Figures 1-3 in Appendix A indicates the current worksites together with the dust monitoring locations for January 2023.

This summary should be read in conjunction with the overview monitoring report monthly available from <a href="https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2">www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2</a>, 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.

1.1.3 The current worksites as presented in Appendix A, Figures 1-3, include:

#### Washwood Heath (Sublot 4)

- Setup of the compound area and haulage routes; and
- Demolition and crushing of existing concrete foundations on site.

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

- STP2 slab works;
- Gantry assembly at STP2 area;
- National Grid ducting works;
- Ducting works at road crossing car park;
- Installation of noise container at Generator Park;
- Installation of oil interceptor at the pond at Generator Park; and
- WPD ducting works for tunnelling.

#### **Curzon Street Station**

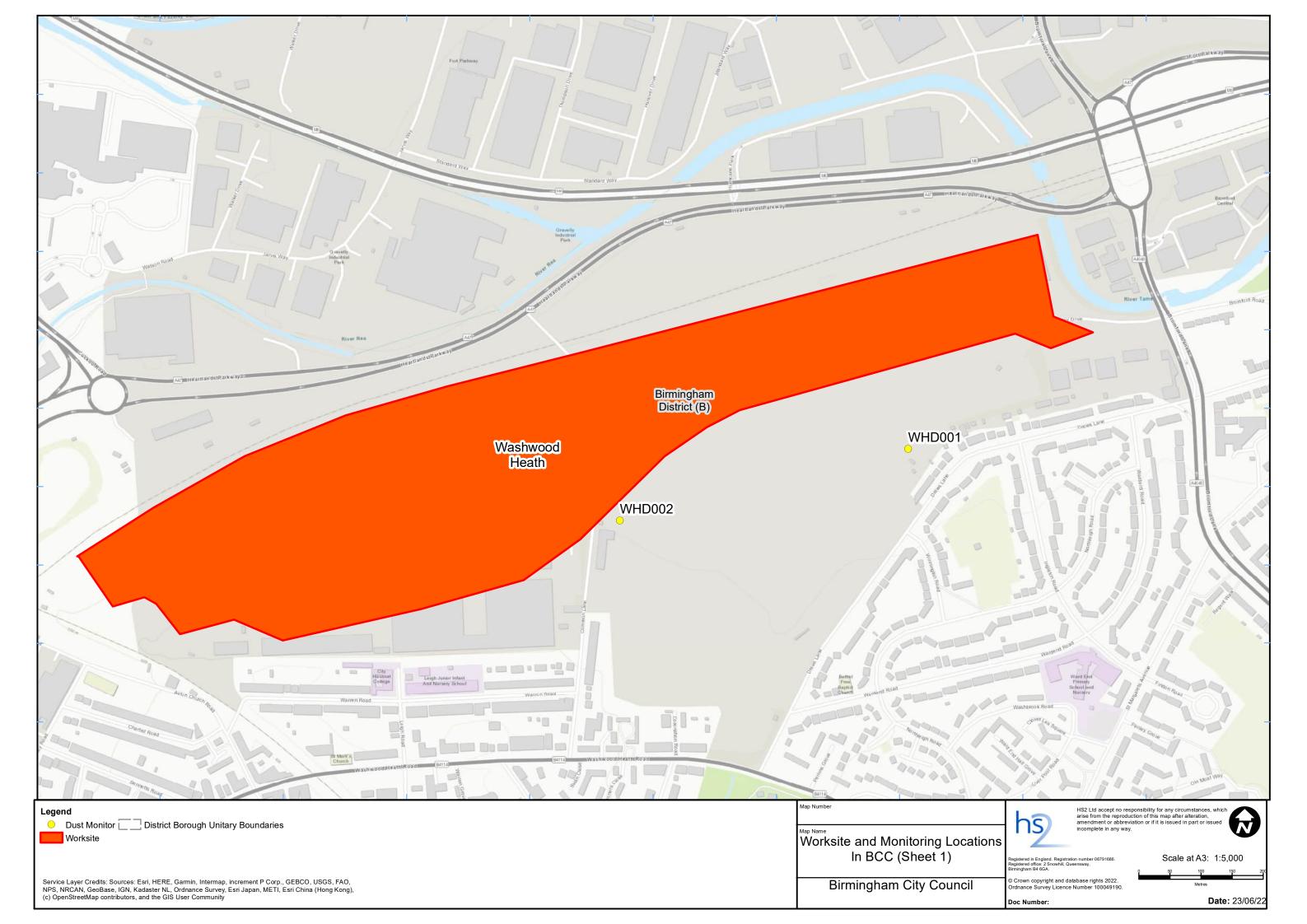
- Ground remediation; and
- Utility diversion works.
- 1.1.4 Seven (7) dust monitors have been installed at worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.5 The dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors 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

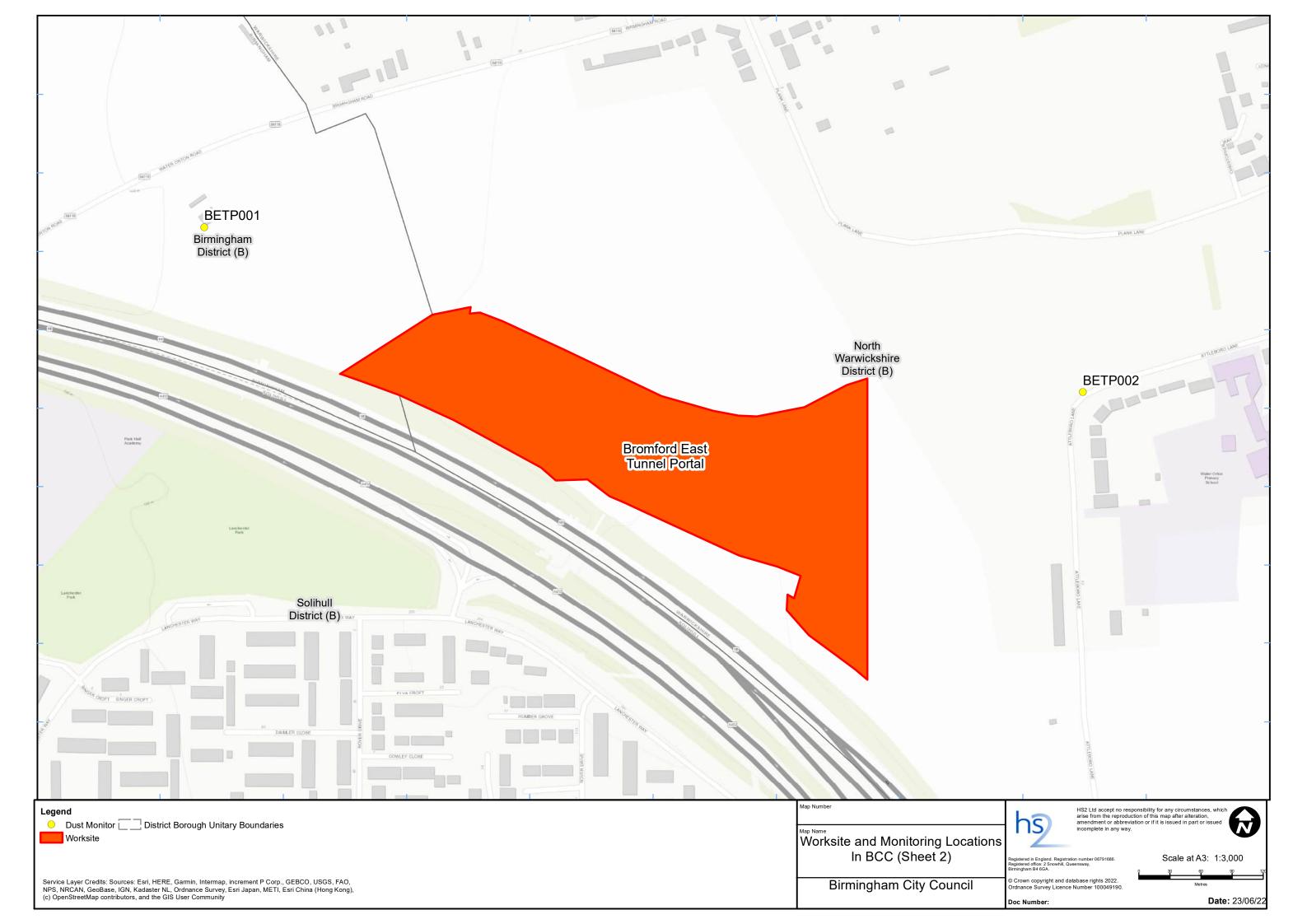
uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigations.

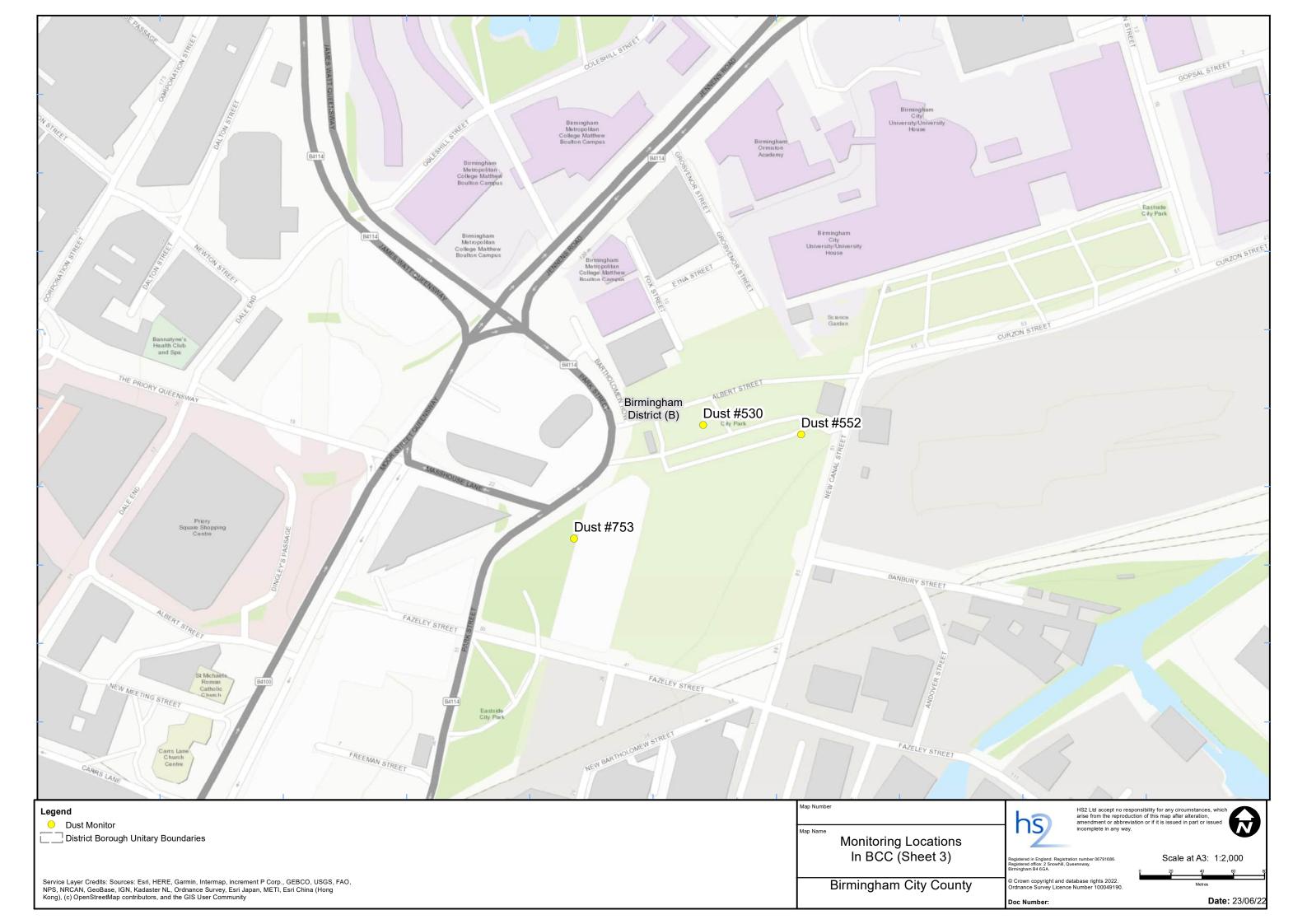
- 1.1.6 The trigger level for  $PM_{10}$  concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)' has been applied.
- 1.1.7 There were no (0) dust trigger alerts recorded during the monitoring period (January 2023).
- 1.1.8 Data capture was below 90% for multiple monitors due to power supply issues.
- 1.1.9 No (0) complaints were received during the reporting period.

## **Appendix A - Worksites and Monitoring Locations**

Figures 1-3: Worksites and Monitoring Locations within the BCC







## **Appendix B - Dust Monitoring Results**

Table 1: Dust monitoring locations and January 2023 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 PM <sub>10</sub> concentration (μg/m³)	Minimum 1-hour PM <sub>10</sub> concentration (µg/m³)	Maximum 1- hour PM <sub>10</sub> 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	М	Yes	No	10.9	0.0	72.5	0	99.9
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	М	Yes	No	19.7	0.0	175.7	0	81.1
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	М	Yes	No	2.7	0.0	35.8	0	92.0
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	М	Yes	No	8.6	0.0	74.2	0	99.9
Dust #530 (old #555)	407702, 287079	Curzon Street Station HS2 Site	Н	N/A	N/A	6.2	0.1	38.3	0	99.9
Dust #753	407619, 287006	Curzon Street Station HS2 Site	Н	N/A	N/A	4.3	0.1	32.3	0	71.0
Dust #552	407765, 287073	Curzon Street Station HS2 Site	Н	N/A	N/A	7.7	0.1	44.8	0	84.5

Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors

