May 2022



Air Quality and Dust Monitoring Monthly Report - May 2022 Birmingham City Council

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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 May 2022.
- 1.1.2 Figure 1 to 3 in Appendix A indicates the BCC worksite together with dust monitoring locations for May 2022.
- 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 first phase of works commenced within BCC during November 2018 and it is completed in 2020. The current worksites, as presented in Appendix A, Figure 1 to 3, include:

Curzon Street Station

- Ground remediation; and
- Utility diversion works.

Washwood Heath

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

Bromford East Tunnel Portal (BETP)

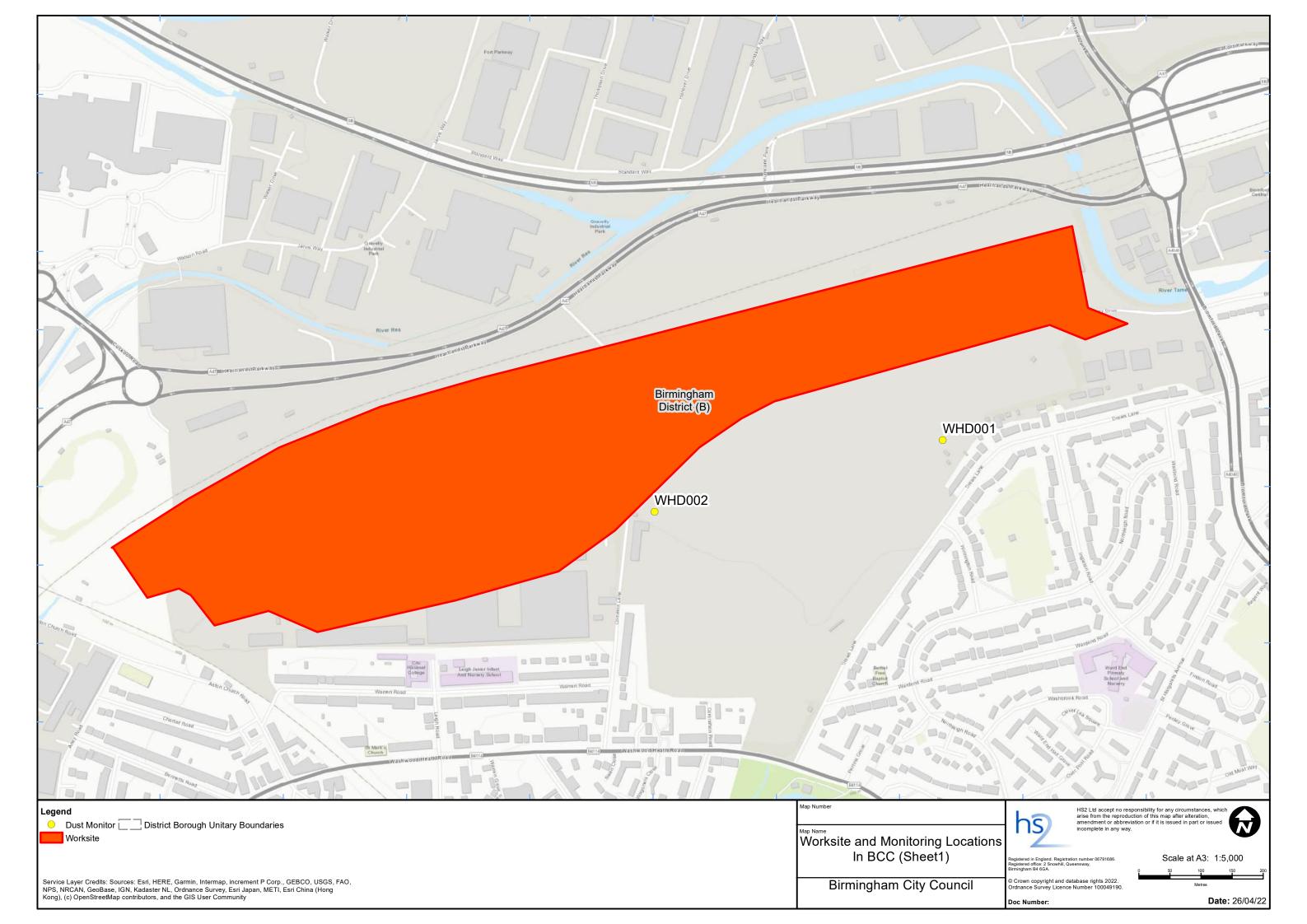
- On-site slurry treatment.
- 1.1.5 Seven (7) dust monitors are installed around the worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results for May 2022 are presented in Appendix B, Table 2 together with line charts for 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

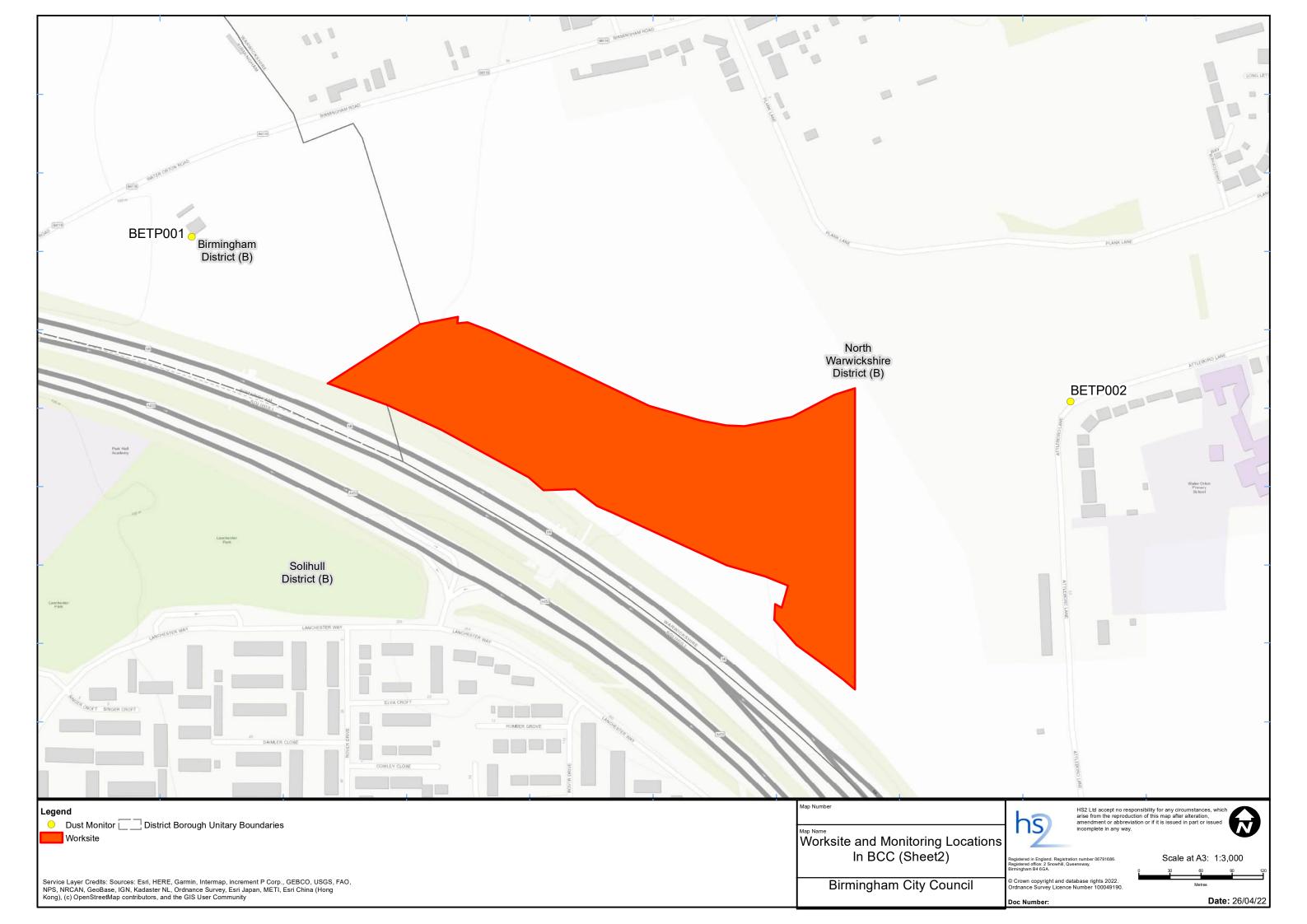
human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

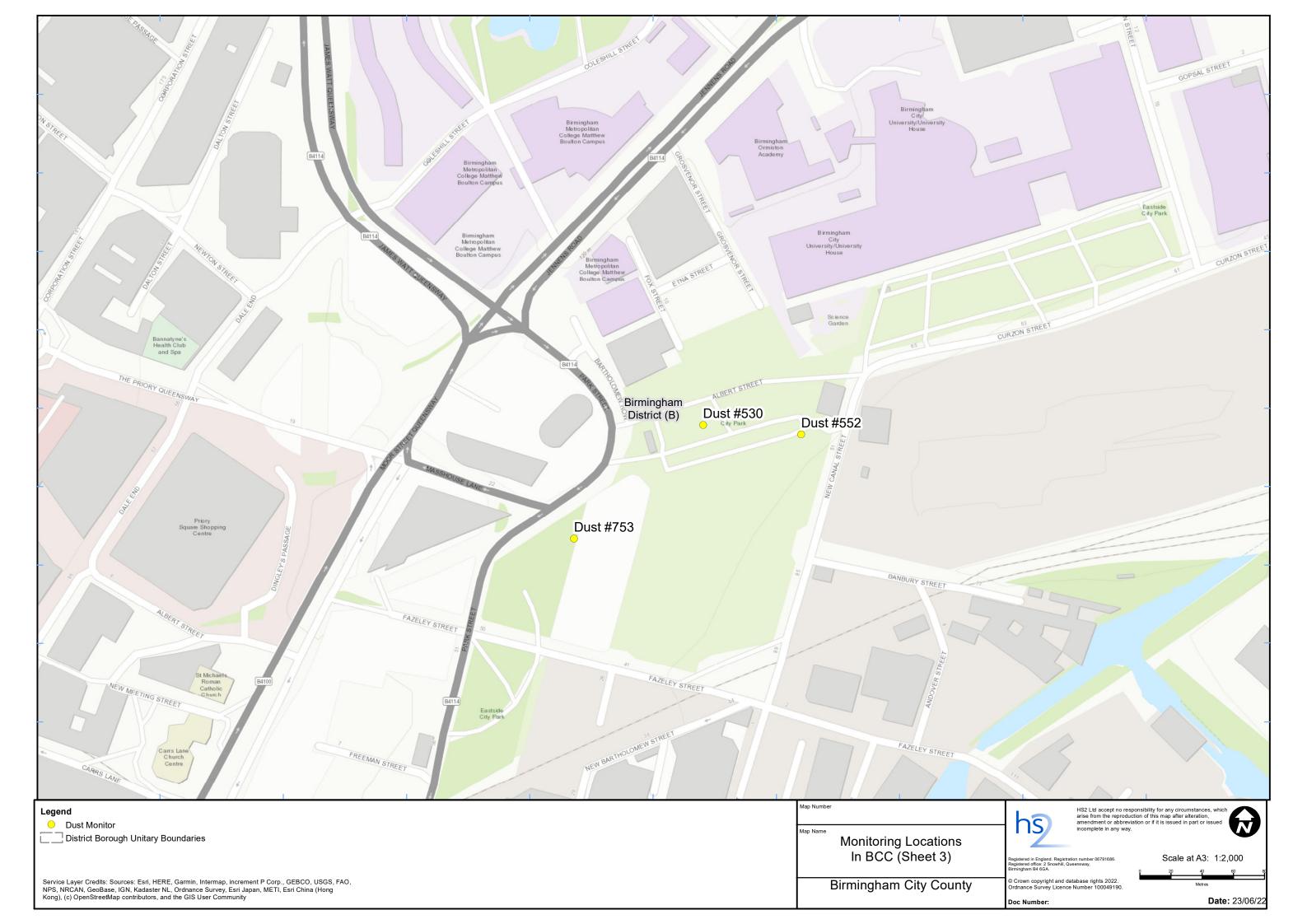
- 1.1.7 The trigger level for PM_{10} concentrations of 190 $\mu g/m^3$, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (November 2018)' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (May 2022).
- 1.1.9 No (0) complaints were recorded during the reporting period.

Appendix A - Worksite and Dust Monitoring Locations

Figure 1 to 3: Worksites and monitoring locations within the BCC







Appendix B - Dust Monitoring Results

Table 1: Dust monitoring locations and May 2022 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 ₁₀ concentration (μg/m³)	Minimum 1-hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (μg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture rate (%)
Dust #530 (old #555)	407702, 287079	Curzon Street Station HS ₂ Site	Н	N/A	N/A	5.0	0.1	37.6	0	95.4
Dust #753	407619, 287006	Curzon Street Station HS2 Site	Н	N/A	N/A	4.5	0.1	35.3	0	91.4
Dust #552	407765, 287073	Curzon Street Station HS2 Site	Н	N/A	N/A	6.8	1.1	50.1	0	100.0
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	М	Yes	No	11.9	0.9	168.2	0	100.0
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	М	Yes	No	1.7	0.1	83.7	0	95.3
BETP001	416620, 290808	Bromford East Tunnel Portal, Twisted Oak Stables	М	Yes	No	6.5	0.7	34.7	0	100.0
BETP002	417467, 290649	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	6.9	1.0	94.5	0	100.0

Figure 4: Construction dust hourly mean indicative PM₁₀ concentration for all monitors

