

Air Quality and Dust Monitoring Monthly Report – August 2021 Birmingham City Council



Department for Transport

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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 Council (BCC) during August 2021.
- 1.1.2 Figure 1 and Figure 2 in Appendix A present the current worksites within BCC together with the dust monitoring locations for August 2021.
- 1.1.3 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.
- 1.1.4 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.
- 1.1.5 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.
- 1.1.6 The current phase of works at Washwood Heath commenced in October 2020 and are expected to continue for five years, they are presented in Appendix A, Figure 1. Activities during August 2021 include: setup of the compound area and haulage routes, and the demolition and crushing of existing concrete foundations on site.
- 1.1.7 Three (3) dust monitors are installed for the current phase of works within BCC. Two (2) dust monitors are at locations of relevant exposure between the worksite and the nearest sensitive receptors to the works on Drews Lane and Common Lane, as presented in Figure 1. This site returned a medium risk rating for dust soiling and health effects. One (1) dust monitor has been installed at Bromford east tunnel portal (BETP) which returned a low-risk rating for dust soiling and health effects. The dust monitor has been installed as a condition for an environmental permit for the operation of on-site slurry treatment plants at BETP. The dust monitor has been installed at Twisted Oak Stables, which is the nearest sensitive receptor to the STP, presented in Appendix A, Figure 2.

- 1.1.8 Data capture at monitoring site BETP001 was below 90% -because the monitor was installed on 10/08/2021.
- 1.1.9 There were no (0) dust trigger alerts recorded during the monitoring period (August 2021).
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (August 2021).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations at Washwood Heath within BCC during August 2021

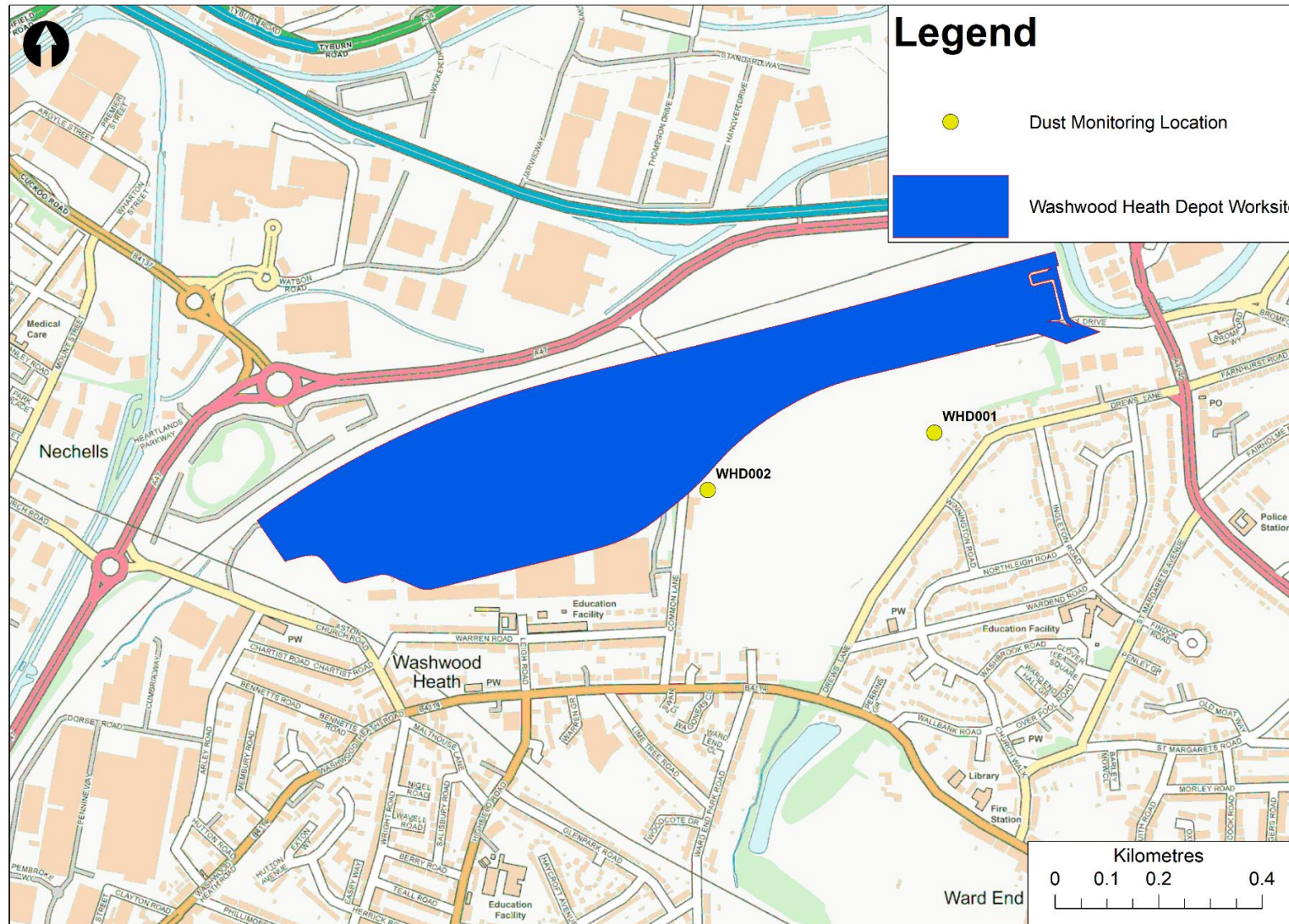
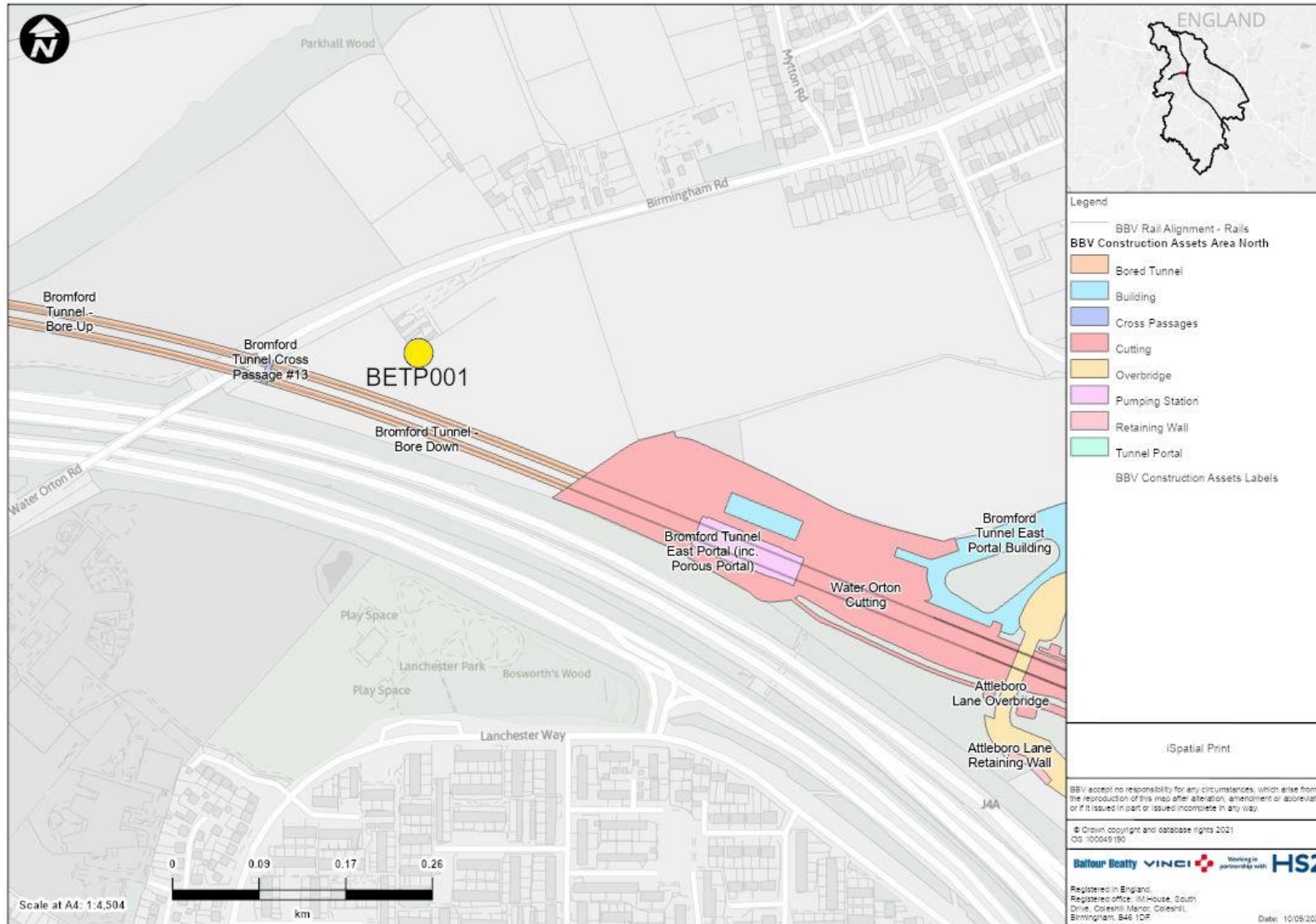


Figure 2: Worksites and Monitoring locations at Bromford east tunnel portal within BCC during August 2021



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and August 2021 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/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	M	Yes	No	5.2	1.1	22.8	0	100.0
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	2.1	0.1	32	0	100.0
BETP001	416620, 290808	Bromford Tunnel East Portal, Twisted Oak Stables	L	Yes	No	8.7	1.1	62.8	0	68.8

