

Air Quality and Dust Monitoring Monthly Report – July 2021

Solihull Metropolitan Borough Council



Department for Transport

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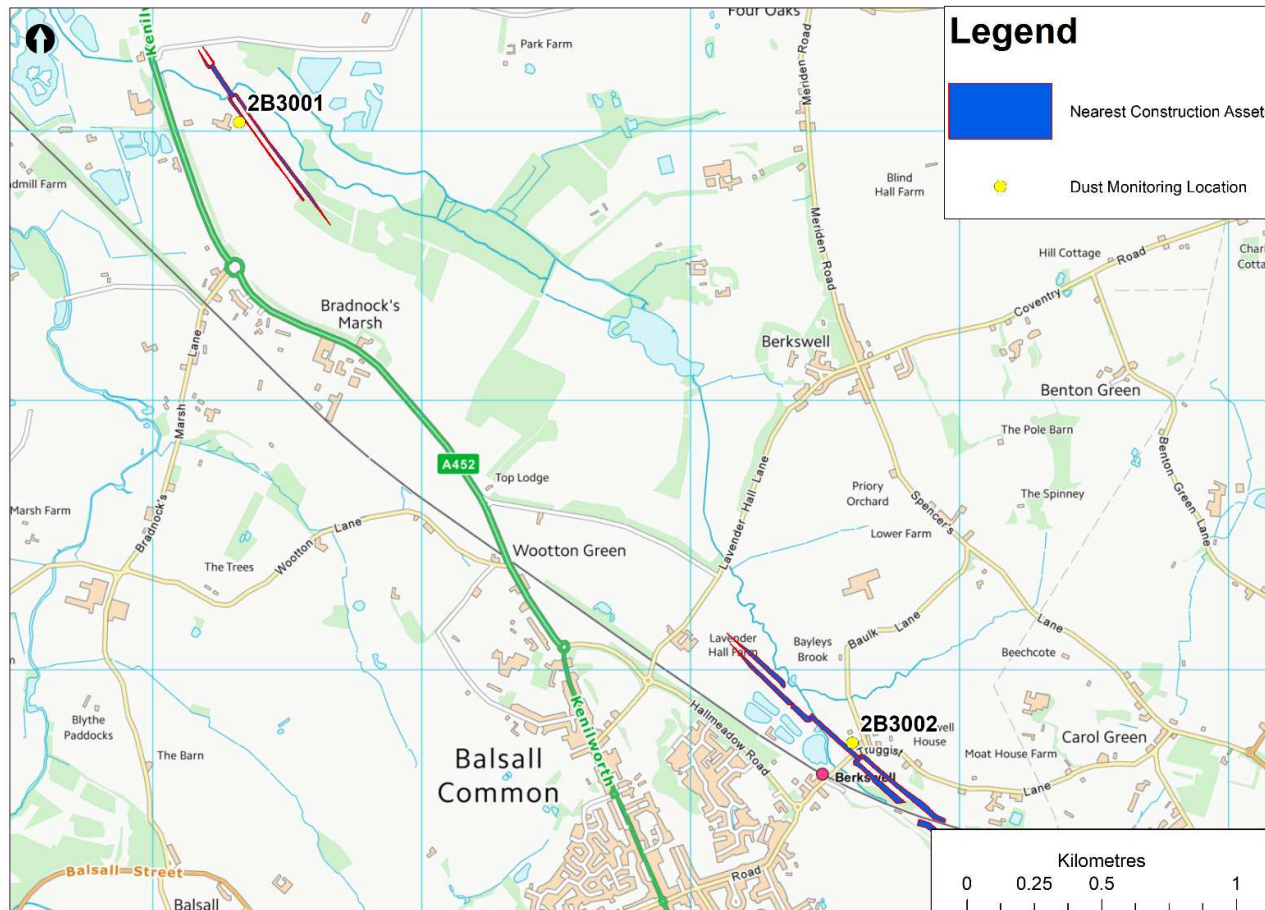
Monthly Summary

- 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 in Solihull Metropolitan Borough Council during July 2021.
- 1.1.2 Figure 1 in Appendix A presents the current worksites together with the dust monitoring locations for July 2021.
- 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 phase of works (Sublot 2B3), within Solihull Metropolitan Borough Council, commenced in September 2020 and is expected to be completed by 2026. The subplot 2B3 works comprises several construction assets including: Balsall Common Viaduct, Lavender Hall Embankment, Park Lane Cutting, Lavender Hall Lane Overbridge, Footpath M214 Overbridge, A452/Park Lane Roundabout, Footpath M215 Overbridge, and Bradnock ATS Compound, and include earthworks consisting of soil stripping for haul road construction, drainage pond construction and stockpiling.
- 1.1.5 Two (2) dust monitors are installed at Marsh Farm and Cherry Tree Cottage which are the nearest properties to the earthworks and haul road. The 2B3 area returned a medium dust risk rating for human health effects.
- 1.1.6 Dust monitoring locations and results for July 2021 are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitor presented in Figure 2. 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.
- 1.1.7 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 There were no (0) dust trigger alerts recorded during the reporting period (July 2021).

- 1.1.9 Data capture was less than 90% at monitor 2B3002, because the monitor was only installed on 23/07/2021.
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (July 2021).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations within Warwick District Council during July 2021



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and July 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 (%)
2B3001	422322, 280034	Sublot 2B3, at Mash Farm	M	Yes	No	8.5	0.4	37.6	0	100.0
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	8.7	1.4	26.9	0	25.8*

* Monitor installed on 23/07/2021

Figure 2: Construction dust 1-hour mean mean indicative PM₁₀ concentration for dust monitor 2B3001

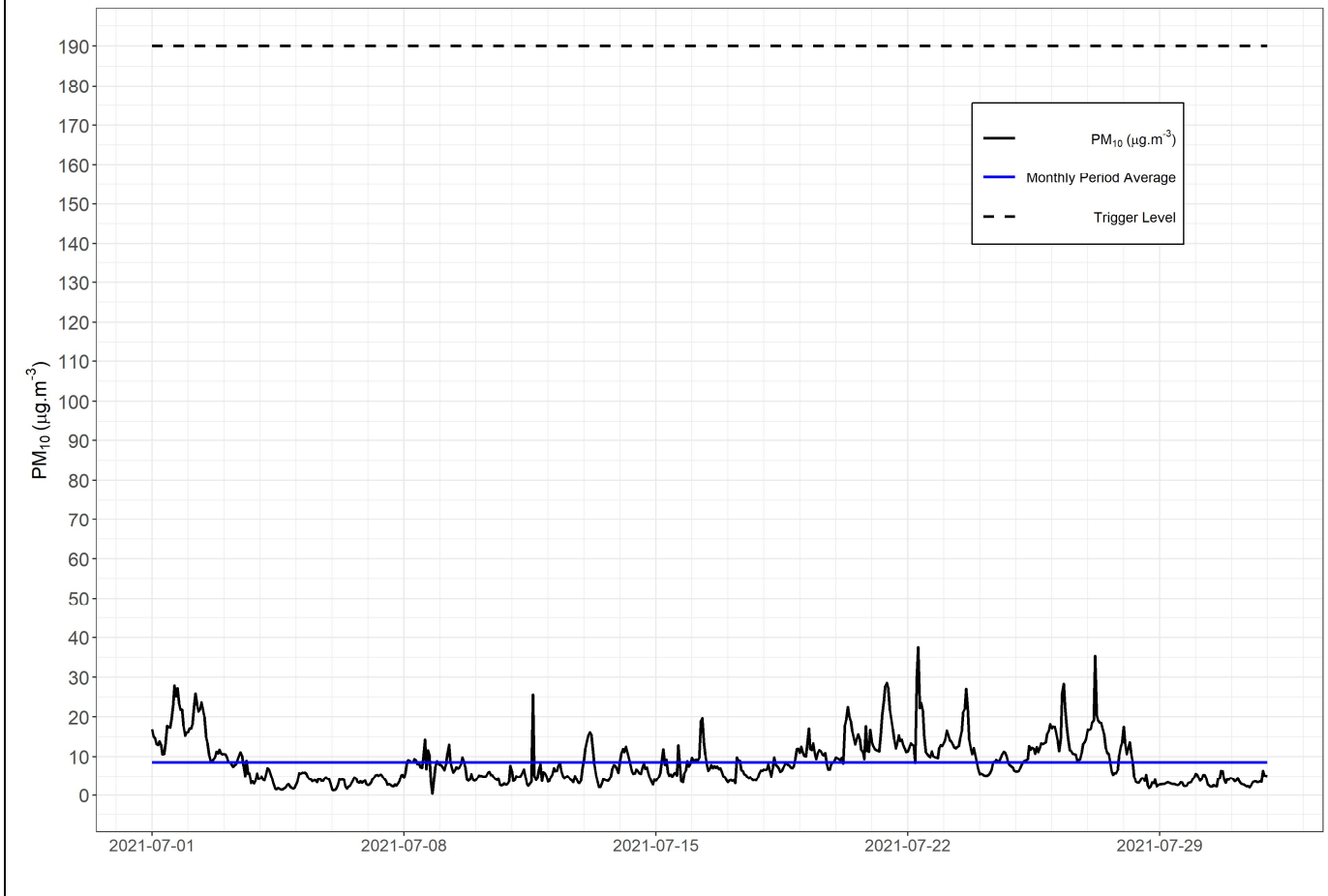


Figure 3: Construction dust 1-hour mean mean indicative PM₁₀ concentration for dust monitor 2B3002

