

Air Quality and Dust Monitoring Monthly Report – August 2022 Lichfield District Council



Department for Transport

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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 air quality and dust monitoring undertaken in Lichfield District Council (LDC) during August 2022.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring locations for August 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 current worksites, as presented in Appendix A, Figure 1, include:

Sublot 8.2

- Construction of the haul road land clearance; and
- Construction of the embankment.

Sublot 8.3

- Site clearance,
- Earthworks and
- Construction works (piling, concrete deliveries).

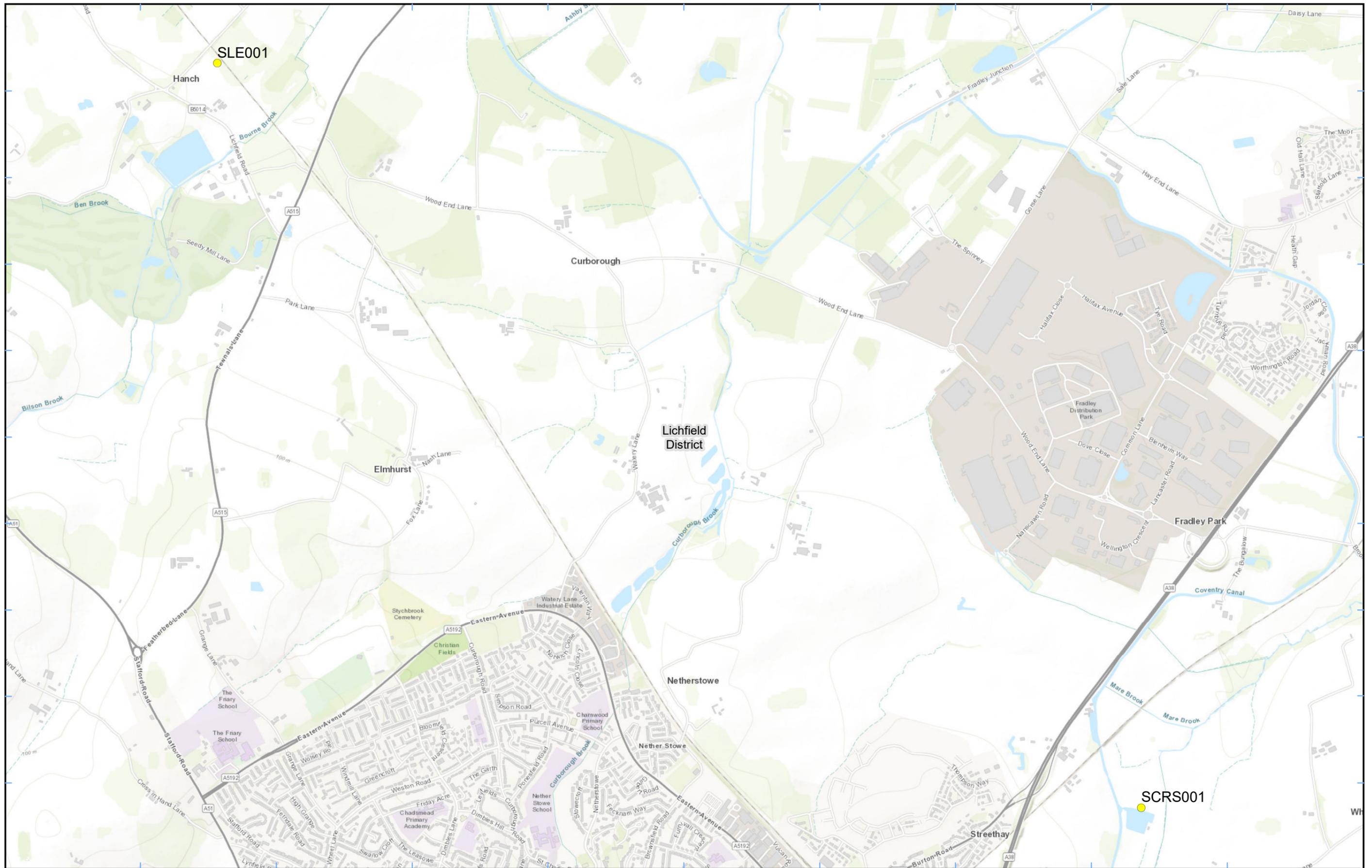
- 1.1.5 Two (2) dust monitors are installed at the worksite, where works are underway, following complaints of dust at this location. These sites returned a low dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors 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 Dust trigger alerts were recorded during the monitoring period (August 2022) are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for monitor SLE001 in August 2022, as it was only installed on the 4th of August.
- 1.1.10 There were no (0) dust complaints received during the monitoring period.

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and monitoring locations within the LDC





Legend

- Lichfield_Monitoring
- District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In LDC (Sheet 1)**

Lichfield District

hs2

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Scale at A3: 1:17,000

0 170 340 510 680 Metres

Doc Number:

Date: 27/09/22

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and August 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/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 (%)
SLE001	410383, 314186	Spinney Nurseries, Shaw Lane Embankment	L	Yes	No	6.7	0.5	35.0	0	88.7
SCRS001	414963, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	No	8.9	0.5	283.7	1	100.0

Table 2: Summary of exceedances during period (August 2022)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
SCRS001	09/08/22 21:00 - 21:59; 283.7 µg/m ³	Outside of construction core hours when there were no construction activities. The source of the exceedance is likely due to a local source near to the monitoring location.	N/A

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

