

Air Quality and Dust Monitoring Monthly Report – March 2023 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 (LDC) during March 2023.

1.1.2 Figure 1 in Appendix A indicate the current worksites together with the dust monitoring locations for March 2023.

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:

Shaw Lane Embankment and Underbridge (Sublot 8.2)

- Raw Water Diversion - Adj A515:
- Whip replacement works in the mitigation sites
- CLD Fencing Installation
- Mains water connection
- Easement Fencing Standardization
- Site Maintenance
- Fencing EAP finishes

Streethay Cutting Retaining Structure (Sublot 8.3)

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

1.1.5 Four (4) dust monitor are installed at these worksites, where works are underway. These sites returned a low dust risk rating.

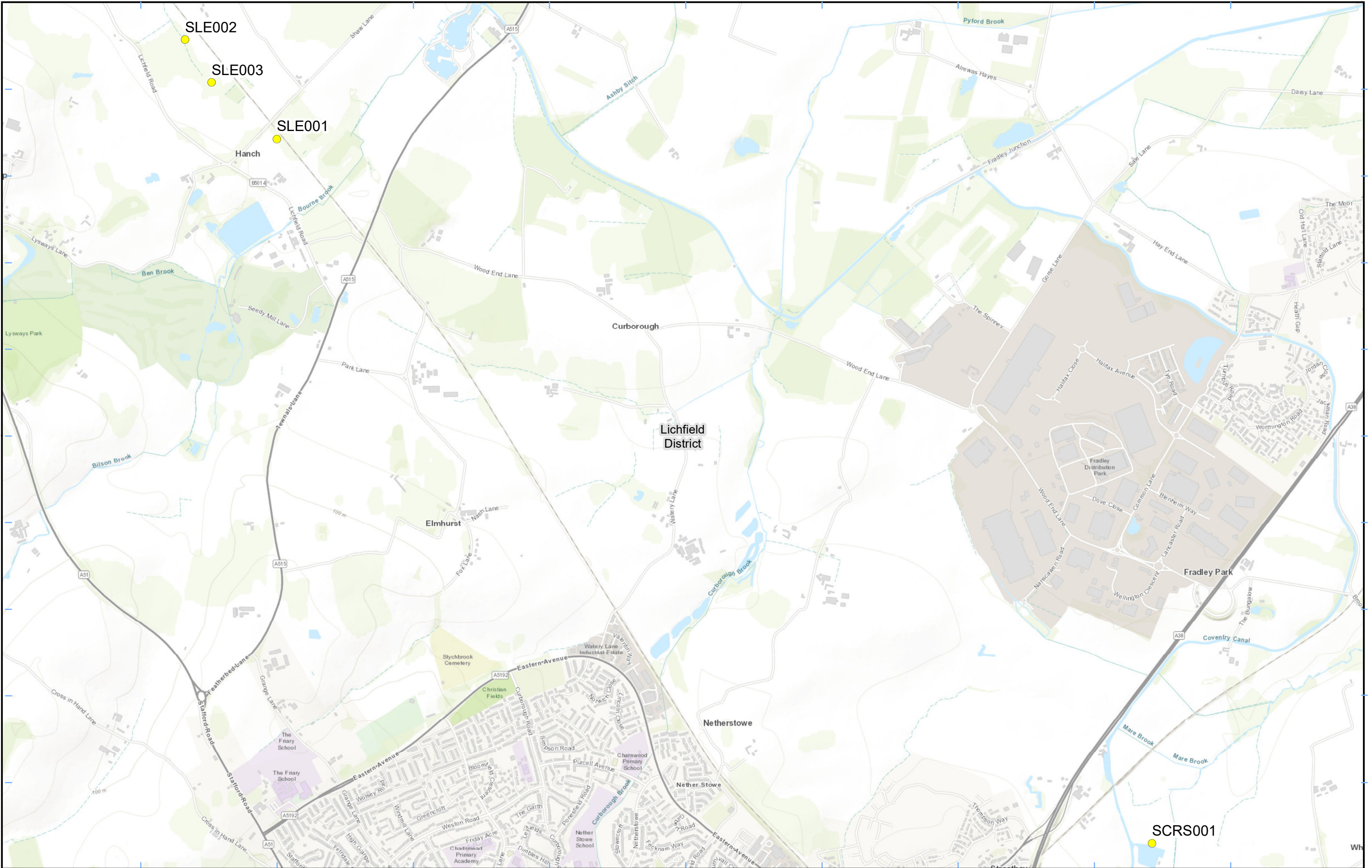
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors presented in Figure 2. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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 There were no (0) dust trigger alerts recorded during the monitoring period (March 2023).
- 1.1.9 There were no (0) complaints received during this reporting period (March 2023).
- 1.1.10 Data capture was below 90% for SLE002 due to a fault with the monitor. It is planned to be swapped out.

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within the LDC





Legend
 Dust Monitor
 District Borough Unitary Boundaries

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Map Number
 Map Name
Monitoring Locations In LDC (Sheet 1)
Lichfield District

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Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and March 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 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 for Month (%)
SLE001	410383, 314185	Spinney Nurseries, Shaw Lane Embankment	L	Yes	No	7.9	1.0	46.2	0	99.7
SLE002	409903, 314705	New Farm Produce 1, Shaw Lane Embankment	L	Yes	No	0.7	0.1	8.1	0	83.6
SLE003	410041, 314481	New Lane Produce 2, Shaw Lane Embankment	L	Yes	No	5.3	0.4	23.7	0	99.7
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	No	2.0	0.1	50.2	0	93.3

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

