

December 2023

Air Quality and Dust Monitoring Monthly Report – December 2023 Lichfield District 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 air quality and dust monitoring undertaken in Lichfield District Council (LDC) during December 2023.
- 1.1.2 Figure 1 in Appendix A presents the current worksites together with the dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from <u>www.gov.uk/government/collections/monitoring-the-</u> <u>environmental-effects-of-hs2</u>, 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)

- Re-drilling boreholes by Ground Investigation team Borehole Driller.
- Capping beam construction including: Formwork installation, steel fixing, hand tools (compressors, impact drives), concrete pumps, crawler crane. Ongoing deliveries and collections.
- Earthworks activities: Excavation using excavators, dumpers, road going tippers.

Streethay Cutting Retaining Structure (Sublot 8.3)

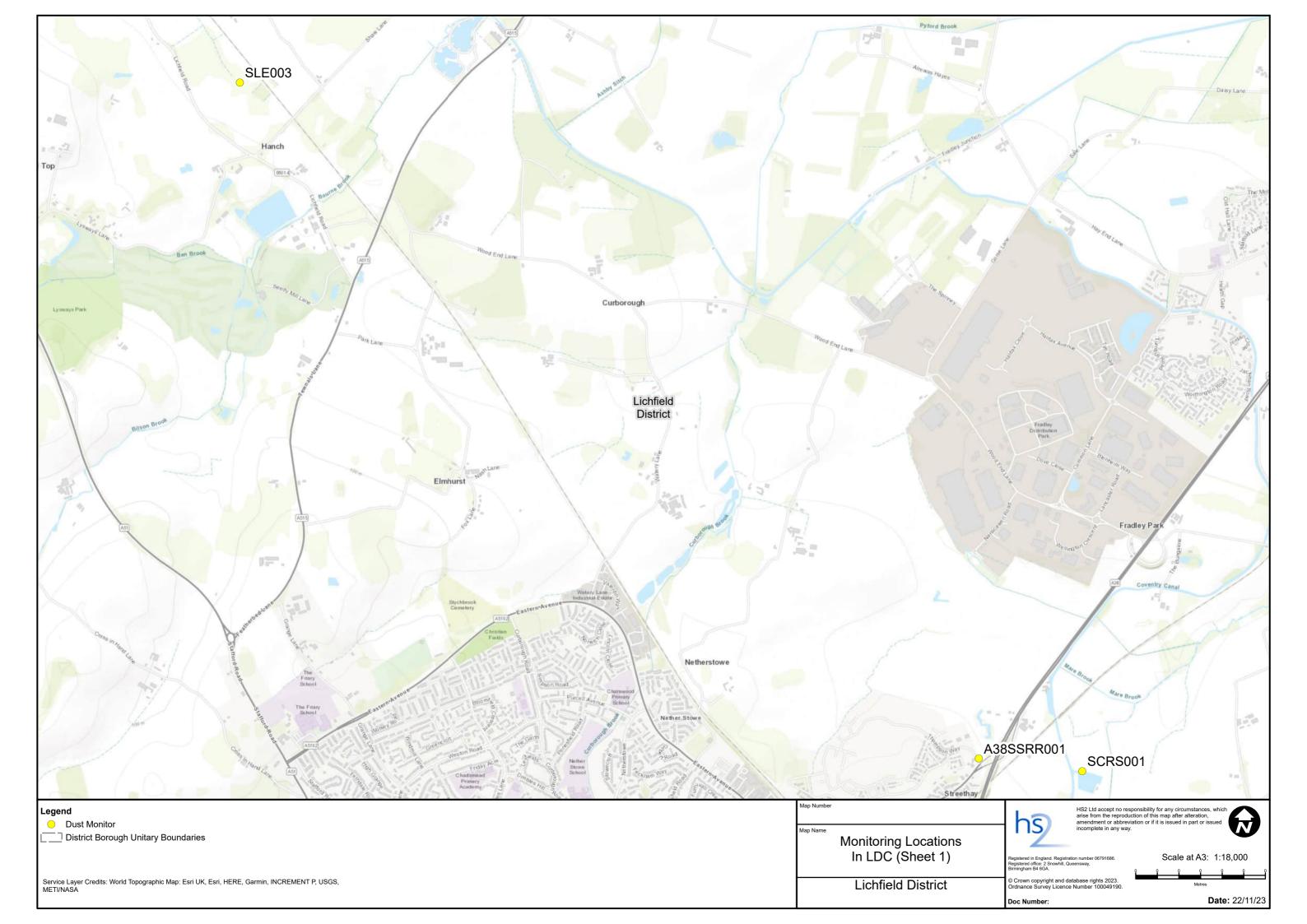
- Footpath 6 Construction, deliveries, road sweepers, drainage installation Small teams of plant, including plate compacters, excavators and dumpers.
- Capping beam construction including: Formwork installation, steel fixing, hand tools (compressors, impact drives), concrete pumps, crawler crane. Ongoing deliveries and collections.
- Earthworks activities: Excavation using excavators, dumpers, road going tippers.
- 1.1.5 Three (3) dust monitors are installed around 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 mitigation.

- 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 No (0) dust trigger alerts were recorded during the monitoring period (December 2023).
- 1.1.9 Data capture was below 90% for the SLE003 monitor due to a lack of solar charge.
- 1.1.10 There were no (0) complaints received during the reporting period (December 2023).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within LDC



Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and 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/m ³ | Data capture for Month (%) |
|-----------------------|----------------------|---|---------------------------------------|---|--|---|---|---|---|----------------------------------|
| SLE003 | 410041, 314481 | New Lane Produce South, Shaw Lane Embankment | L | Yes | No | 4.4 | 0.1 | 30.8 | 0 | 87.9 |
| SCRS001 | 414913, 310498 | Streethay Cutting Retaining Structure, King's Orchard Marina | L | Yes | No | 8.1 | 0.1 | 130.2 | 0 | 95.4 |
| A38SSRR001 | 414315, 310571 | Thompson Way, Streethay, Fradley and Streethay | L | Yes | No | 5.9 | 0.1 | 30.2 | 0 | 93.3 |



