

Air Quality and Dust Monitoring Monthly Report – September 2024

Lichfield District Council



Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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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 September 2024.
- 1.1.2 Figures 1 and Figure 2 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 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, Figures 1 and 2, include:

Whittington Common Cutting (Sublot 8.1)

- Whittington Heath Embankment construction.

Shaw Lane Embankment and Underbridge (Sublot 8.2)

Streethay Area 3/4/5 works

- Construction of a piling platform including excavation with excavator, excavated material removal with tipper trucks, stone delivery with lorries, installation of stone with dozer, excavator, dumper, compaction of stone with 13 tonne roller.

Streethay Area 1 works

- Deliveries and collection.
- Road sweepers.
- Maintenance.
- Strimming.
- Small items of plant including plate compacters, excavators and dumpers, excavator and strimming machine.

Sublot 8.3

Streethay Area 3/4/5 works

- Construction of a piling platform including excavation with excavator, excavated material removal with tipper trucks, stone delivery with lorries, installation of stone with dozer, excavator, dumper, compaction of stone with 13 tonne roller.

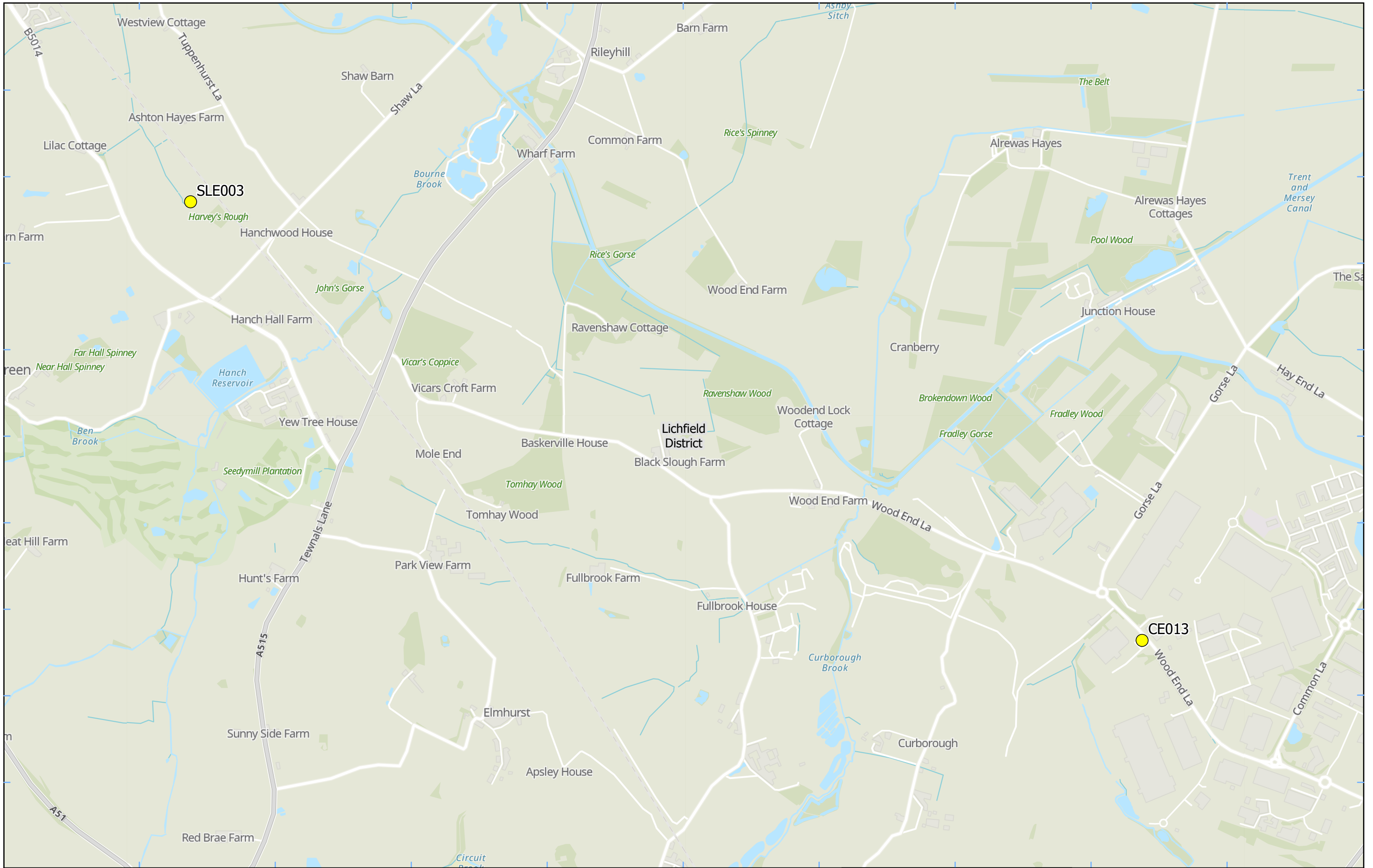
Streethay Area 7 works

- Deliveries and collection.
- Road sweepers.
- Maintenance.
- Strimming.
- Small items of plant including plate compacters, excavators and dumpers, excavator and strimming machine.

- 1.1.5 Six (6) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium 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 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 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 (September 2024).
- 1.1.9 There were no (0) complaints received during the reporting period (September 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1-2: Worksites and Monitoring Locations within LDC



Legend
 Dust Monitor
 District Borough Unitary Boundaries

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 Contains data from OS Zoomstack

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

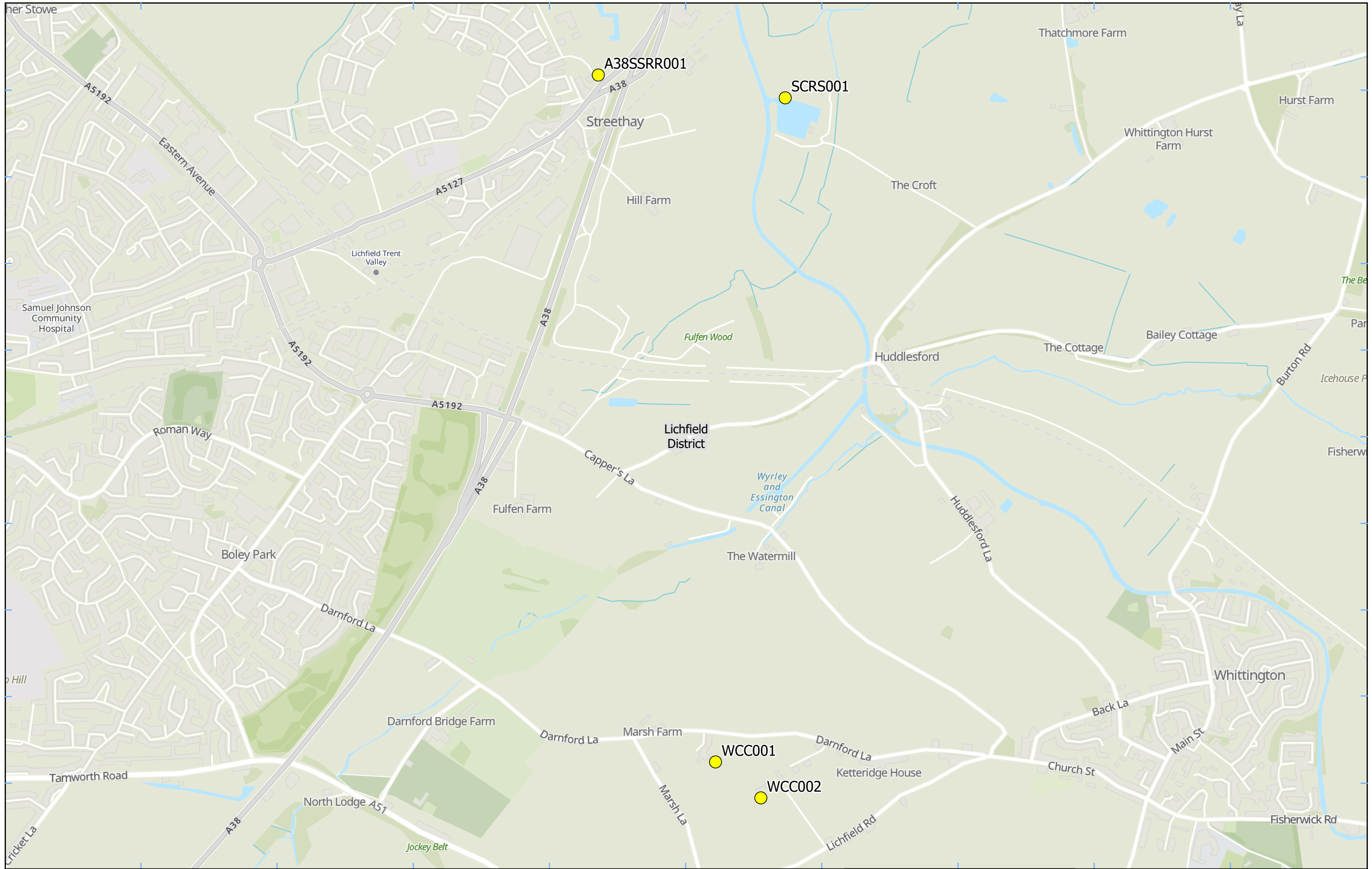
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Doc Number:



Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name
**Monitoring Locations
In LDC (Sheet 2)**

Lichfield District Council

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Metres

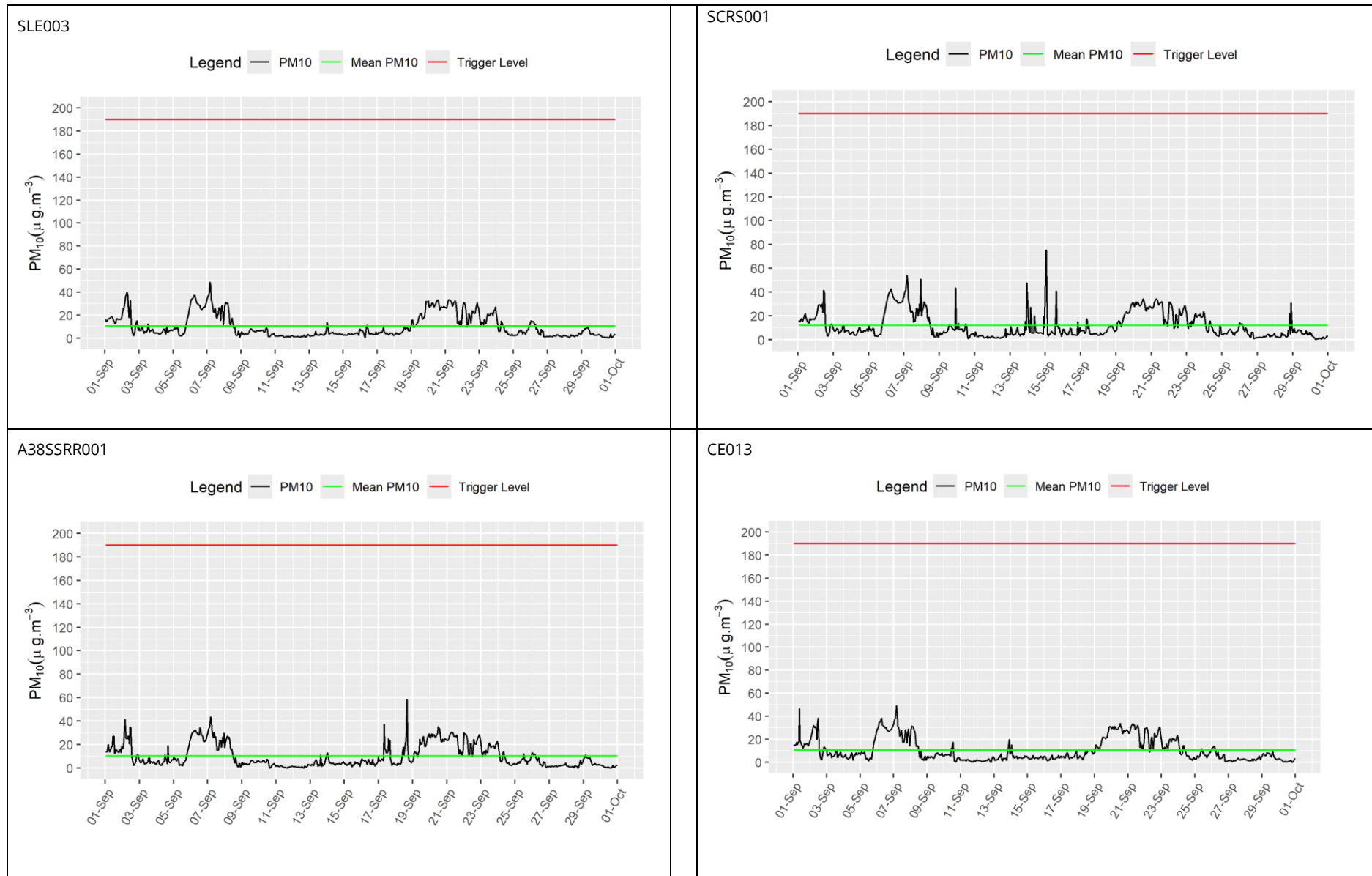
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Appendix B – Dust Monitoring Results

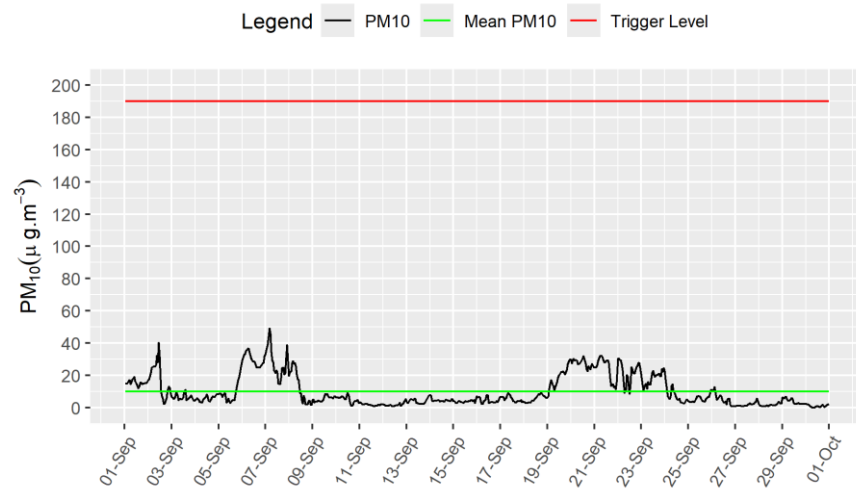
Table 1: Dust Monitoring Locations and Results

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/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 (%)
SLE003	410041, 314481	New Lane Produce South, Shaw Lane Embankment	N	Yes	No	10.6	0.4	48.7	0	100.0
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	12.2	0.5	75.2	0	100.0
A38SSRR001	414315, 310571	Thompson Way, Streethay, Fradley and Streethay	M	Yes	No	10.3	0.1	58.4	0	100.0
CE013	414198, 312565	Midlands Karting, Wood End Lane	M	Yes	No	10.7	0.2	49.3	0	100.0
WCC001	414690, 308373	Whittington Hill Farm, Darnford Lane	L	Yes	No	10.2	0.1	49.2	0	100.0
WCC002	414835, 308258	Ellfield House, Darnford House	L	Yes	No	9.8	0.1	46.1	0	100.0

Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



WCC001



WCC002

