

Air Quality and Dust Monitoring Monthly Report – October 2025

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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No. of Review	Reviewer (s)	Date
1 st review (EDP)	Sophie Emmerton / David Wright	02/12/2025
	SS Rohekar	04/12

Phase 1: Air Quality and Dust Monitoring Summary Report for Lichfield District Council

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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 October 2025.

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:

Sublot 8.1

Whittington Common Cutting

- No works occurred in October 2025.

Swinfen Cutting South

- Construction of A5 overbridge.

Sublot 8.2

Streethay Area 3/4/5/6 works

- Platform maintenance.
- Technical backfill installation.
- Excavation to road formation level.
- Road build up including stone deliveries with lorries, stone removal with excavators, compaction with roller and wacker plates.
- Fibre reinforced concrete (FRC) works.
- Construction of A38 overbridge.
- Deliveries with wagon (such as steel, tools and containers), offloading with 90 tonne crane, items lifting with 90 tonne crane and forklift.
- Formwork make up and installation.
- Carpentry works.
- Concrete deliveries and installation with pump, compaction with vibrating tool.

Streethay Area 1 works

- Deliveries and collections, road sweepers, maintenance and strimming.
- Small items of plant used on site, including plate compacters, excavators and dumper, excavator and strimming machine.

Sublot 8.3

Streethay Area 3/4/5/6 works

- Platform maintenance
- Technical backfill installation
- Excavation to road formation level
- Road build up including stone deliveries with lorries, stone removal with excavators, compaction with roller and wacker plates.
- FRC Works
- Construction of A38 overbridge
- Deliveries with wagon (such as steel, tools and containers), offloading with 90 tonne crane, items lifting with 90 tonne crane and forklift.
- Formwork make up and installation.
- Carpentry works.
- Concrete deliveries and installation with pump, compaction with vibrating tool.

Streethay Area 1 works

- Deliveries and collections, road sweepers, maintenance and strimming.
- Small items of plant used on site, including plate compacters, excavators and dumper, excavator and strimming machine.

Sublot 8.4

Shaw Lane Embankment

- Decommissioning works.

1.1.5 Seven (7) 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 (October 2025).

1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor CE013 – A battery refresh was carried out on 24th October 2025. After the site visit, the power supply issues were resolved.
- Monitor WCC002 – A field calibration and battery refresh is scheduled for 12th November 2025.
- Monitor SCS001 – A field calibration and battery refresh is scheduled for 12th November 2025.
- Monitor TRO001 – A field calibration and battery refresh is scheduled for 12th November 2025.
- Monitor WCC001 – A full dust work up was carried out on 2nd October 2025. A monitor swap out for investigation was carried out on 4th November 2025.

1.1.10 There were no (0) complaints received during the reporting period (October 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1-2: Worksites and Monitoring Locations within LDC



Placeholder for Fig 1



Placeholder for Fig 2

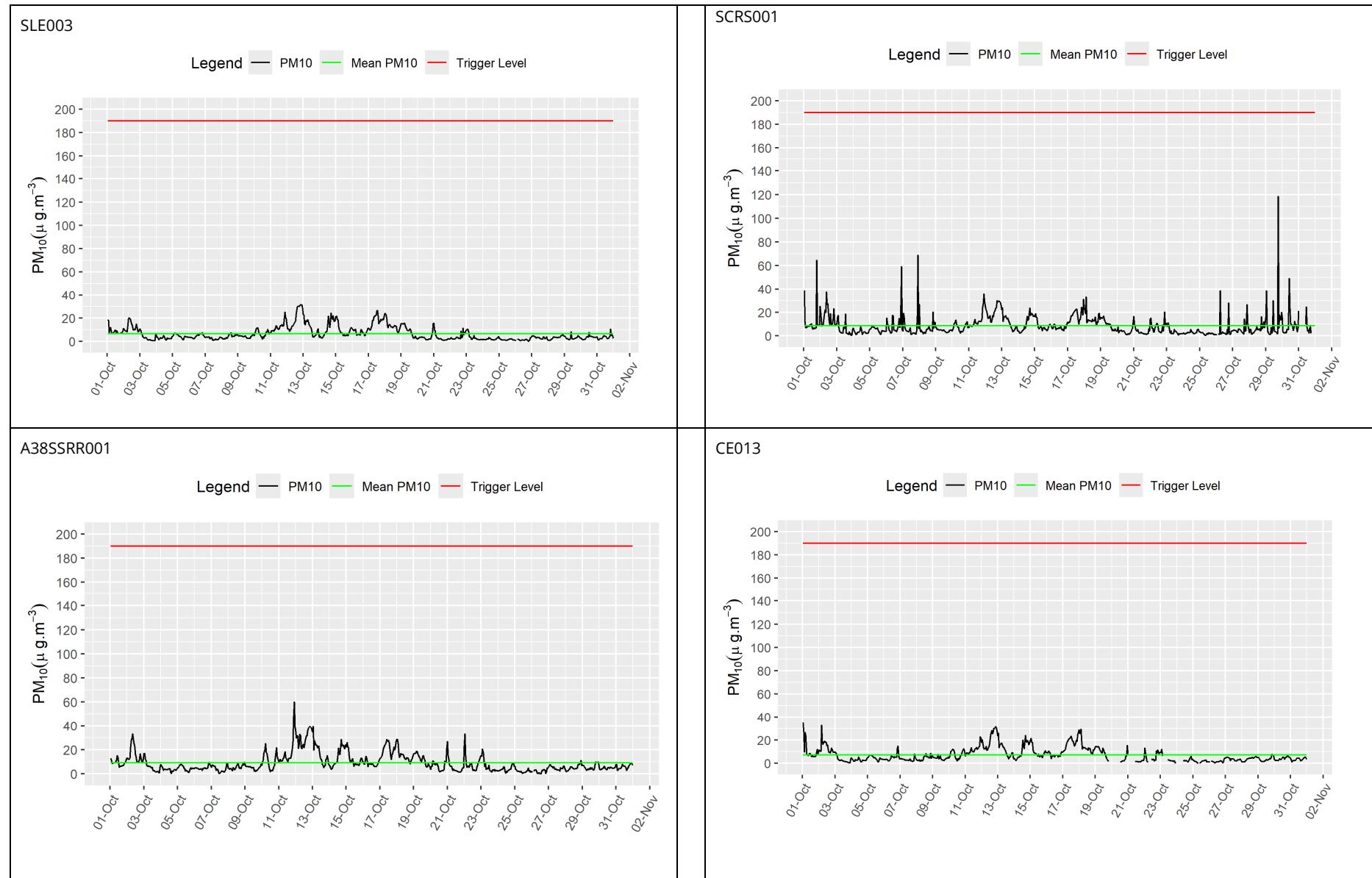


Appendix B – Dust Monitoring Results

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	410077, 314464	New Farm Produce South, Shaw Lane Embankment	L	Yes	No	6.6	0.1	31.6	0	99.9
SCRS001	414895, 310500	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	8.5	0.1	118.5	0	98.3
A38SSRR001	414345, 310607	Thompson Way, Streethay, Fradley and Streethay	M	Yes	No	9.0	0.1	60.1	0	99.7
CE013	413915, 312581	Midlands Karting, Wood End Lane	L	Yes	No	7.1	0.1	35.1	0	93.3
WCC001	414682, 308298	Whittington Hill Farm, Darnford Lane	M	Yes	No	-	-	-	-	-
WCC002	414856, 308274	Ellfield House, Darnford House	M	Yes	No	6.2	0.1	28.6	0	89.4
SCS001	415081, 303691	The Lodge, Rock Hill	M	Yes	No	6.2	0.1	35.1	0	86.4
TRO001	414617, 307246	South Lodge	M	Yes	No	5.2	0.1	22.9	0	87.6

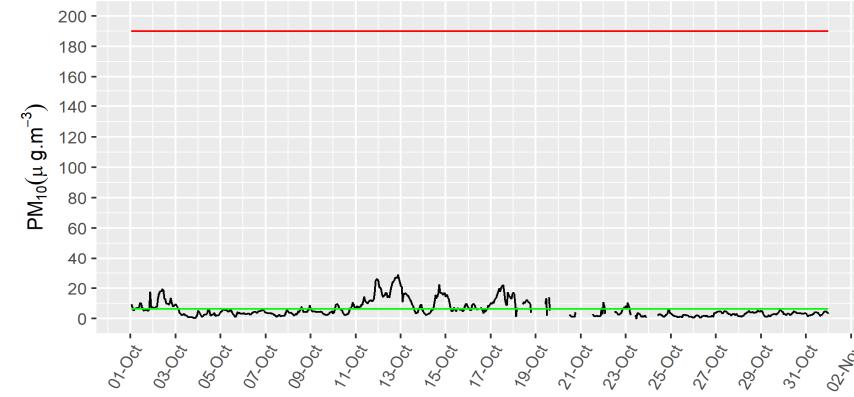
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



WCC001
NO DATA

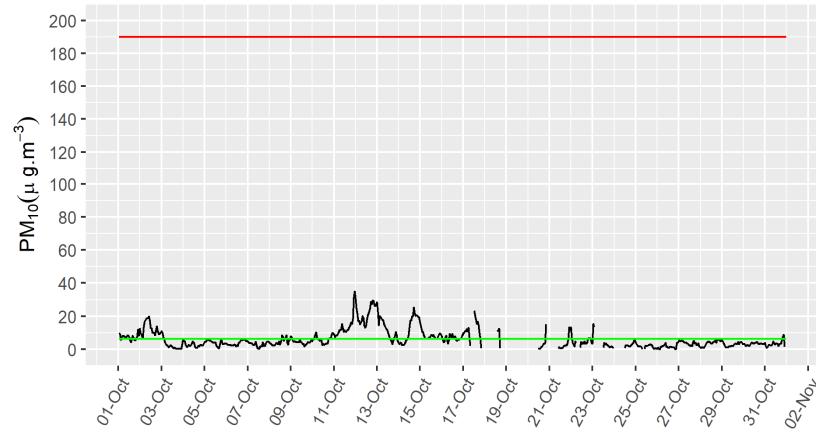
WCC002

Legend — PM10 — Mean PM10 — Trigger Level



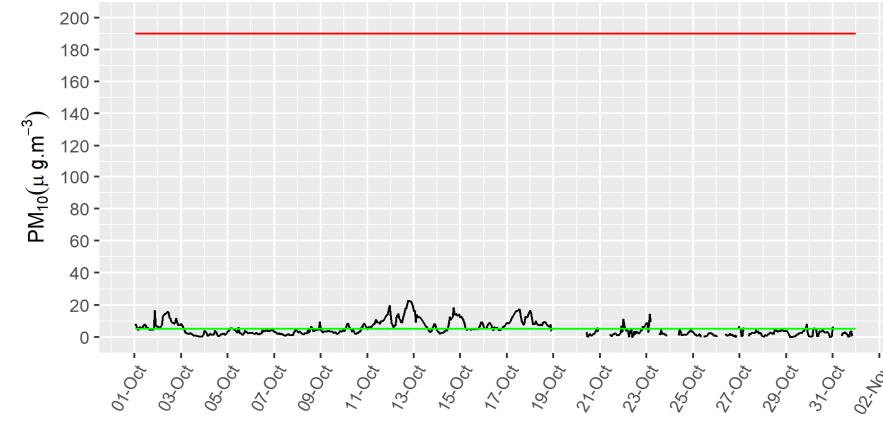
SCS001

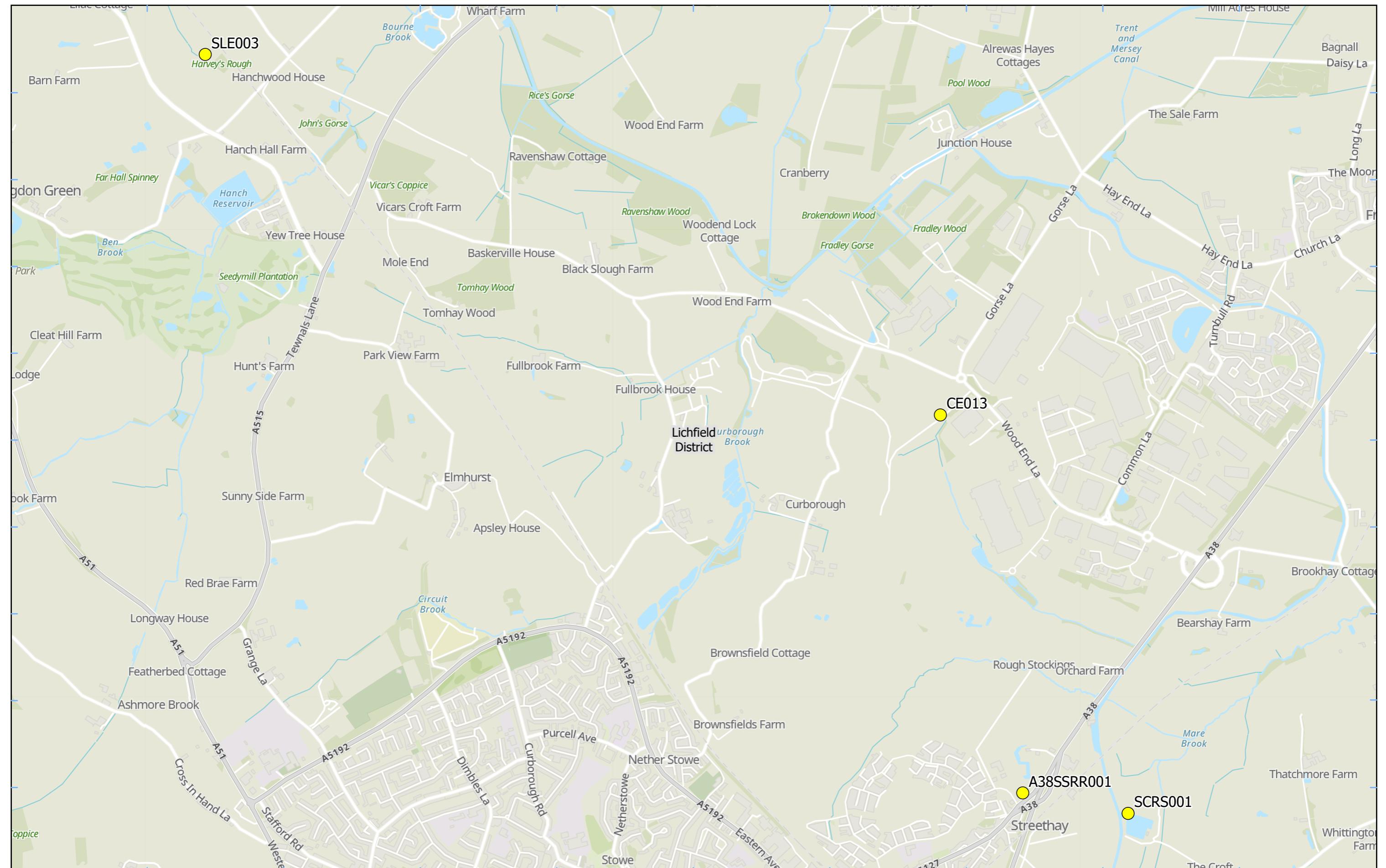
Legend — PM10 — Mean PM10 — Trigger Level



TRO001

Legend — PM10 — Mean PM10 — Trigger Level





Legend

Dust Monitor

1 District Borough Unitary Boundaries

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



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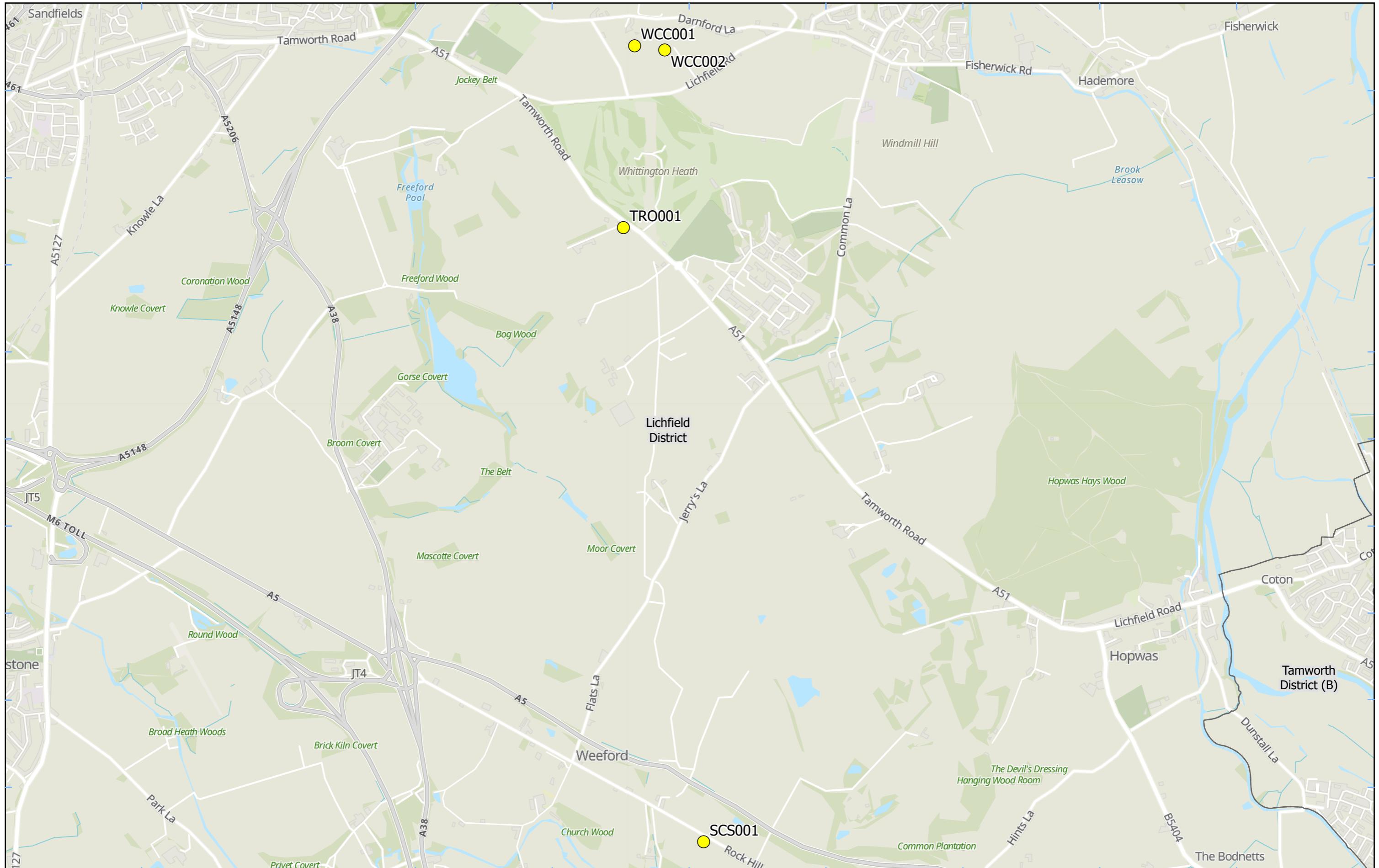
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Legend

● 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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