

Air Quality and Dust Monitoring Monthly Report – May 2025

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 May 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

- Construction of Darnford Lane Overbridge.

Swinfen Cutting South

- A5 piling works.

Sublot 8.2

Streethay Area 3/4/5/6 works

- Platform maintenance with stone deliveries lorries, stone removal and installation with use of excavator, compaction with roller and wacker plates.
- Excavation for civil works and pile cropping (excavation with excavator, ground-breaking (concrete, tarmac) with breaker, ground movements with Articulated Dump Trucks (ADT) and tippers, compaction with 4 tonne roller and wacker plates).
- Deliveries with lorries and HIAB, offloading with 90 tonne crane and lifting items with crane and forklift.
- Pile cropping with 5 tonne excavator with breaker, 40 tonne excavator, drilling tool, milling tool and link cropper.
- Pile hand breaking and burning, carpentry works and formwork makeup and installation.
- Concrete deliveries and installation with pump. Compaction with vibrating tool.

- 8-day blockade of WCML using 4No. Engineering trains and 2No. DTS Tampers, RRV excavators and bulldozers.
- Fibre-Reinforced Concrete (FRC) works.
- Construction of A38 Rykneld Street Overbridge.

Streethay Area 1 works

- Deliveries and collections, road sweepers, maintenance and strimming.
- Small items of plant used, including plate compacters, excavators and dumpers, excavator and strimming machine.
- Platform maintenance with stone deliveries lorries, stone removal and installation with use of excavator, compaction with roller and wacker plates.

Sublot 8.3

Streethay Area 3/4/5/6 works

- Platform maintenance with stone deliveries lorries, stone removal and installation with use of excavator, compaction with roller and wacker plates.
- Excavation for civil works and pile cropping (excavation with excavator, ground-breaking (concrete, tarmac) with breaker, ground movements with Articulated Dump Trucks (ADT) and tippers, compaction with 4 tonne roller and wacker plates).
- Deliveries with lorries and HIAB, offloading with 90 tonne crane and lifting items with crane and forklift.
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- Platform maintenance with stone deliveries lorries, stone removal and installation with use of excavator, compaction with roller and wacker plates.

Sublot 8.4

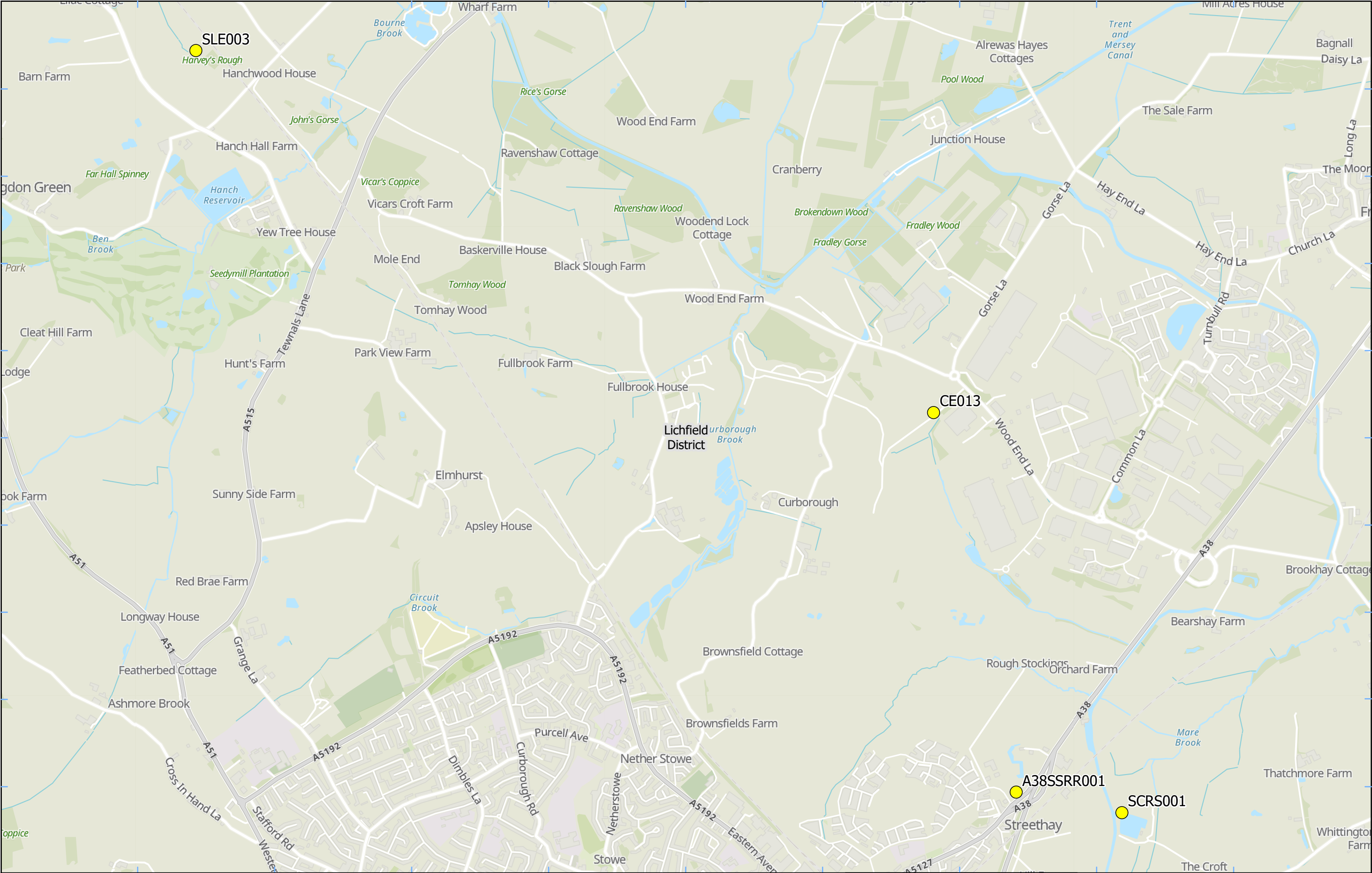
Shaw Lane Embankment

- Stockpiling material from Curzon Street.

- 1.1.5 Eight (8) 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 (May 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor TRO001 - the monitor was installed and commissioned on 6th May 2025. Data capture for the period since installation was 100%.
 - Monitor SCRS001 – A field calibration was done on 14th May 2025. A fault investigation site visit is scheduled for 17th June 2025.
 - Monitor WCC001 – A monitor swap out was done on 6th May 2025. After this site visit, the monitor issues were resolved.
- 1.1.10 There were no (0) complaints received during the reporting period (May 2025).

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

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

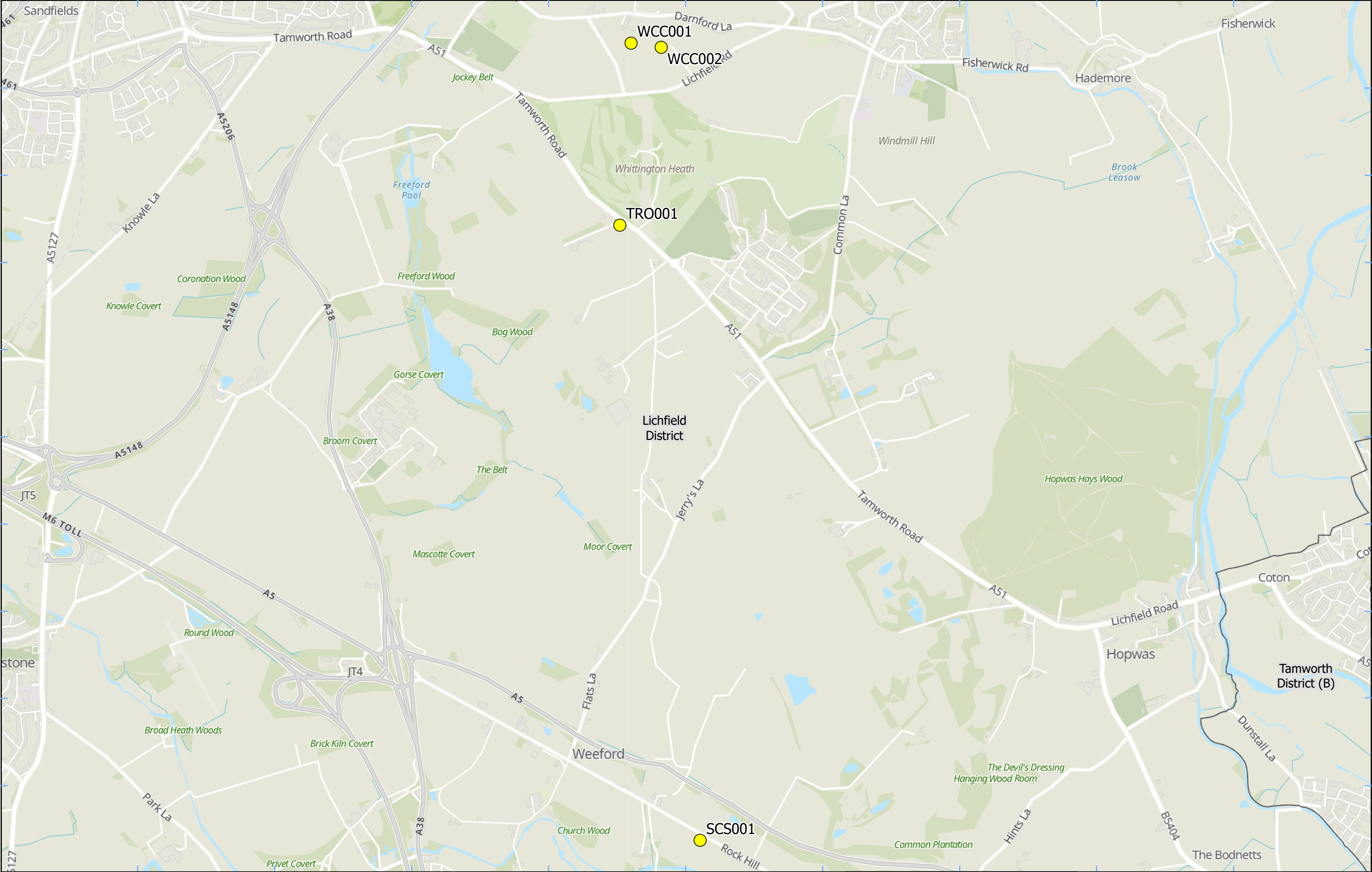
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Doc Number:

Scale at A3: 1:18,000

Metres

Date: 19/12/24



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 2)**

Lichfield District Council

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

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Doc Number:

Scale at A3: 1:20,000

Metres

Date: 10/06/25

Appendix B – Dust Monitoring Results

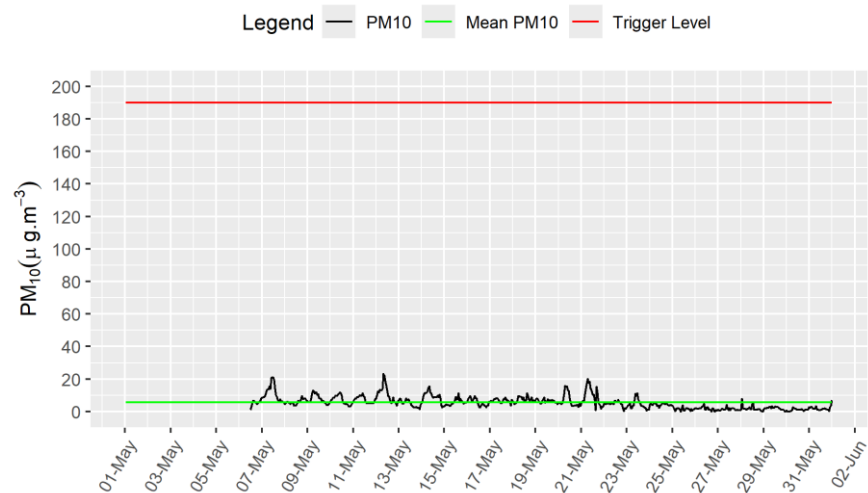
Table 1: Dust Monitoring Locations and Results

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	8.0	0.5	39.0	0	100.0
SCRS001	414895, 310500	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	13.2	4.4	50.8	0	8.2
A38SSRR001	414345, 310607	Thompson Way, Streethay, Fradley and Streethay	M	Yes	No	9.4	0.1	50.2	0	100.0
CE013	413915, 312581	Midlands Karting, Wood End Lane	L	Yes	No	5.8	0.1	30.2	0	100.0
WCC001	414682, 308298	Whittington Hill Farm, Darnford Lane	M	Yes	No	5.6	0.1	23.5	0	81.6
WCC002	414856, 308274	Ellfield House, Darnford House	M	Yes	No	6.6	0.4	36.8	0	100.0
SCS001	415081, 303691	The Lodge, Rock Hill	M	Yes	No	8.4	0.1	49.2	0	100.0
TRO001	414617, 307246	South Lodge,	M	Yes	N/A	7.9	0.2	28.1	0	82.5

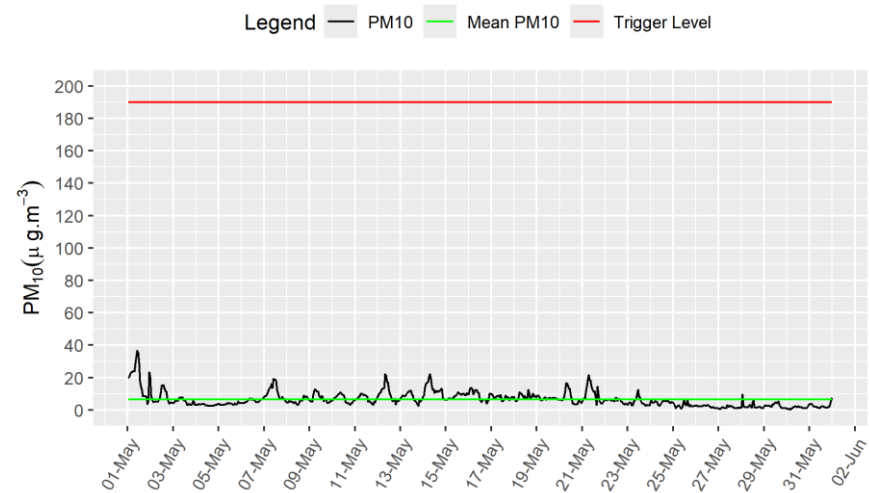
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



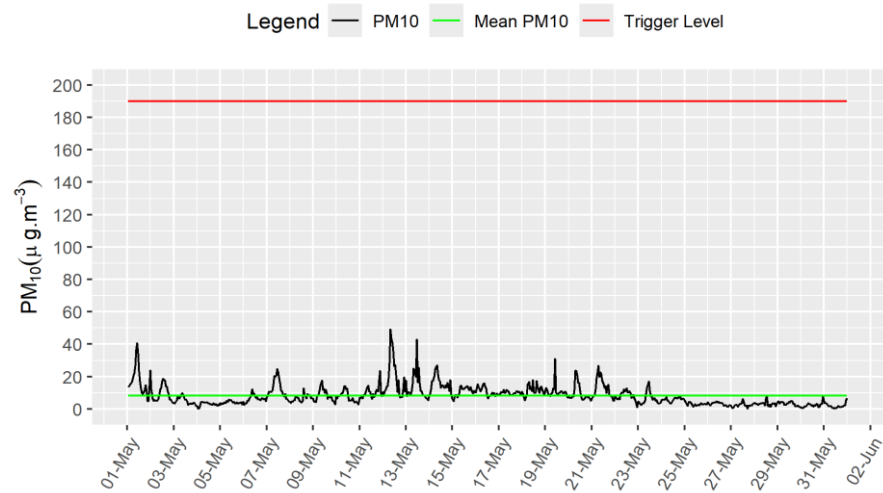
WCC001



WCC002



SCS001



TRO001

