

Air Quality and Dust Monitoring Monthly Report – January 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 January 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:

Whittington Common Cutting (Sublot 8.1)

- Maintenance of site V-ditches.
- Removal of built up of silt / rematting.
- Soil stripping.
- Soil stripping and stone placing for laydown area, compound set up, and access construction.
- Earthing and bonding.
- Technical Backfill.
- Excavation for west and east piers and abutments.
- Tractor and bowser for localised water management.
- Control station construction.
- Site maintenance works on existing haul road, accesses, pond levels and silt fencing.
- Installation of fencing (including silt fencing and Heras fencing).

Streethay Cutting Retaining Structure (Sublot 8.2)

Streethay Area 3/4/5/6 works

- Piling works including excavation with piling rig, installation and removal of casings, use of crane for different lifting activities, concrete deliveries, cages deliveries and others, and removal with arisings with excavator and lorries.
- Piling platform maintenance.
- Stone deliveries with lorries.
- Stone removal and installation with use of excavator, and compaction with roller.

Streethay Area 1 works

- Deliveries and collections.
- Road sweepers.
- Maintenance.
- Strimming.
- Small items of plant used including: plate compacters, excavators, dumpers and a strimming machine.

Sublot 8.3

Streethay Area 3/4/5/6 works

- Piling works including excavation with piling rig, installation and removal of casings, use of crane for different lifting activities, concrete deliveries, cages deliveries and others, and removal with arisings with excavator and lorries.
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- Stone deliveries with lorries.
- Stone removal and installation with use of excavator, and compaction with roller.

Streethay Area 1 works

- Deliveries and collections.
- Road sweepers.
- Maintenance.
- Strimming.
- Small items of plant used including: plate compacters, excavators, dumpers and a strimming machine.

- 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 (January 2025).

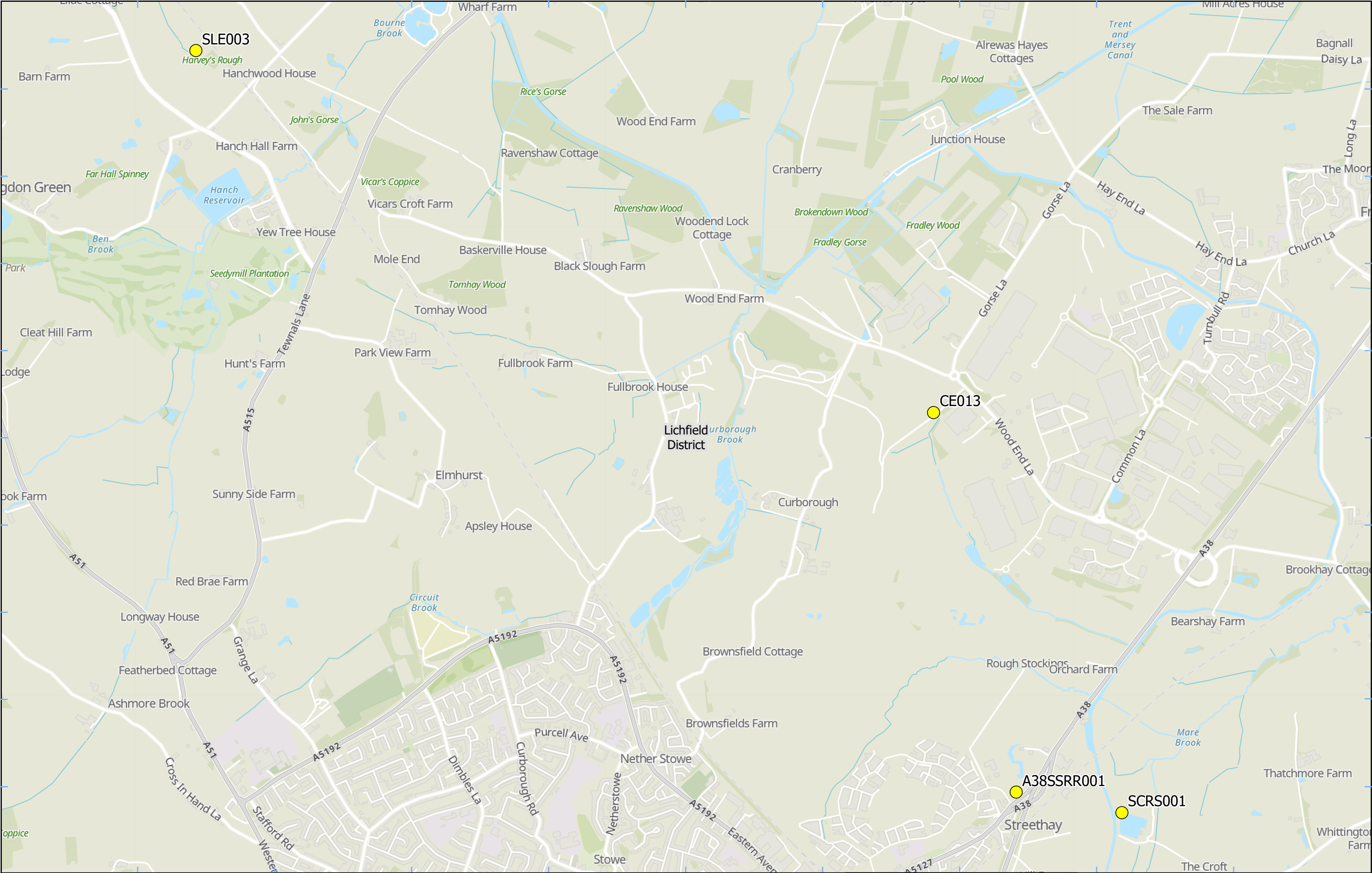
1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor CE013 – A field calibration and battery refresh is scheduled for 14th February 2025.
- Monitor WCC002 – A field calibration and battery refresh is scheduled for 10th February 2025.
- Monitor SCS001 – A battery refresh was done on 23rd January 2025. After the battery refresh, the power supply issues were resolved.
- Monitor SCRS001 – A monitor swap out was done on 17th January 2025. A field calibration is scheduled for 14th February 2025.
- Monitor WCC001 – A battery refresh and field calibration is scheduled for 10th February 2025.

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

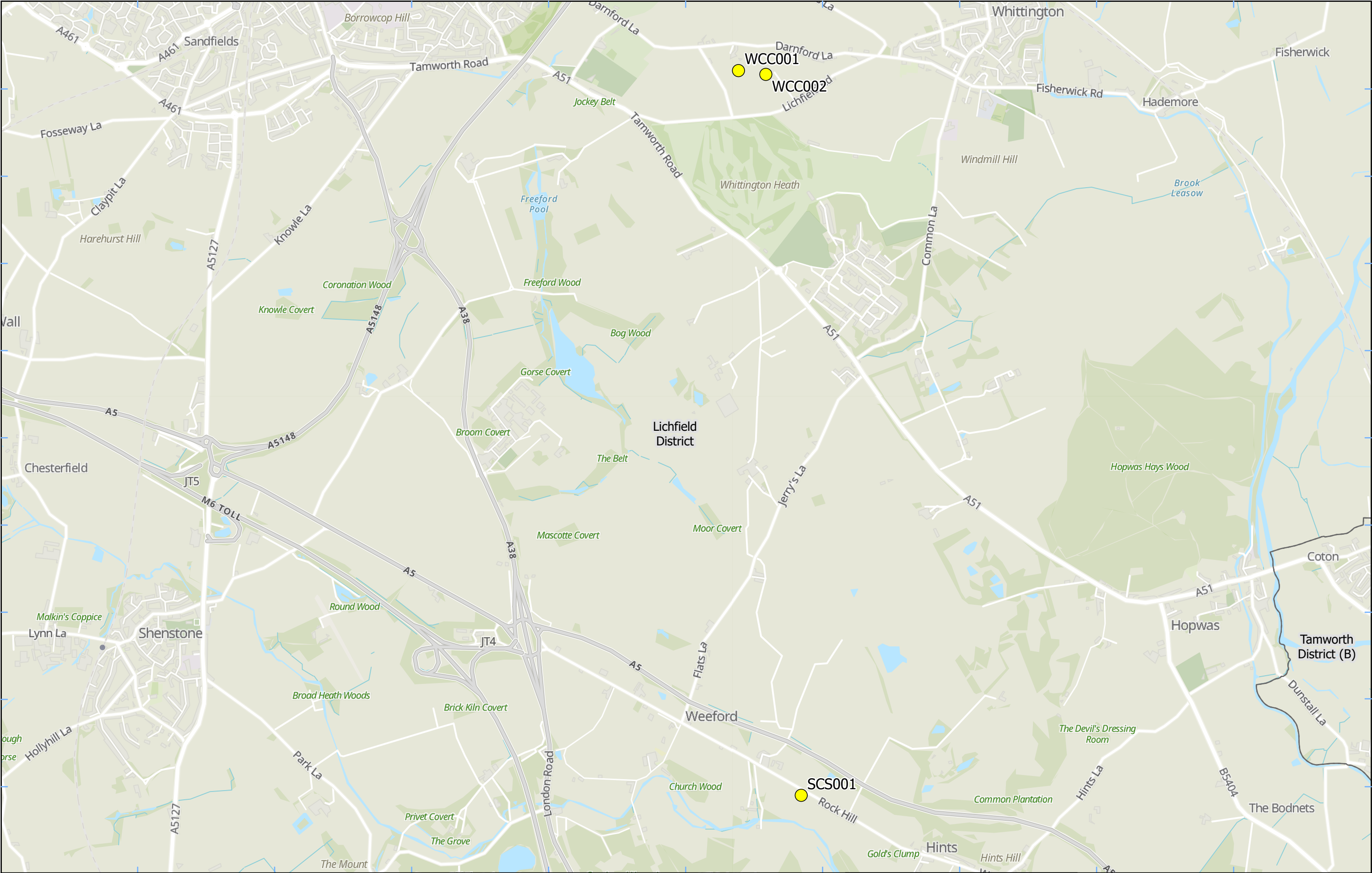
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Doc Number:

Scale at A3: 1:18,000

Metres

Date: 19/12/24



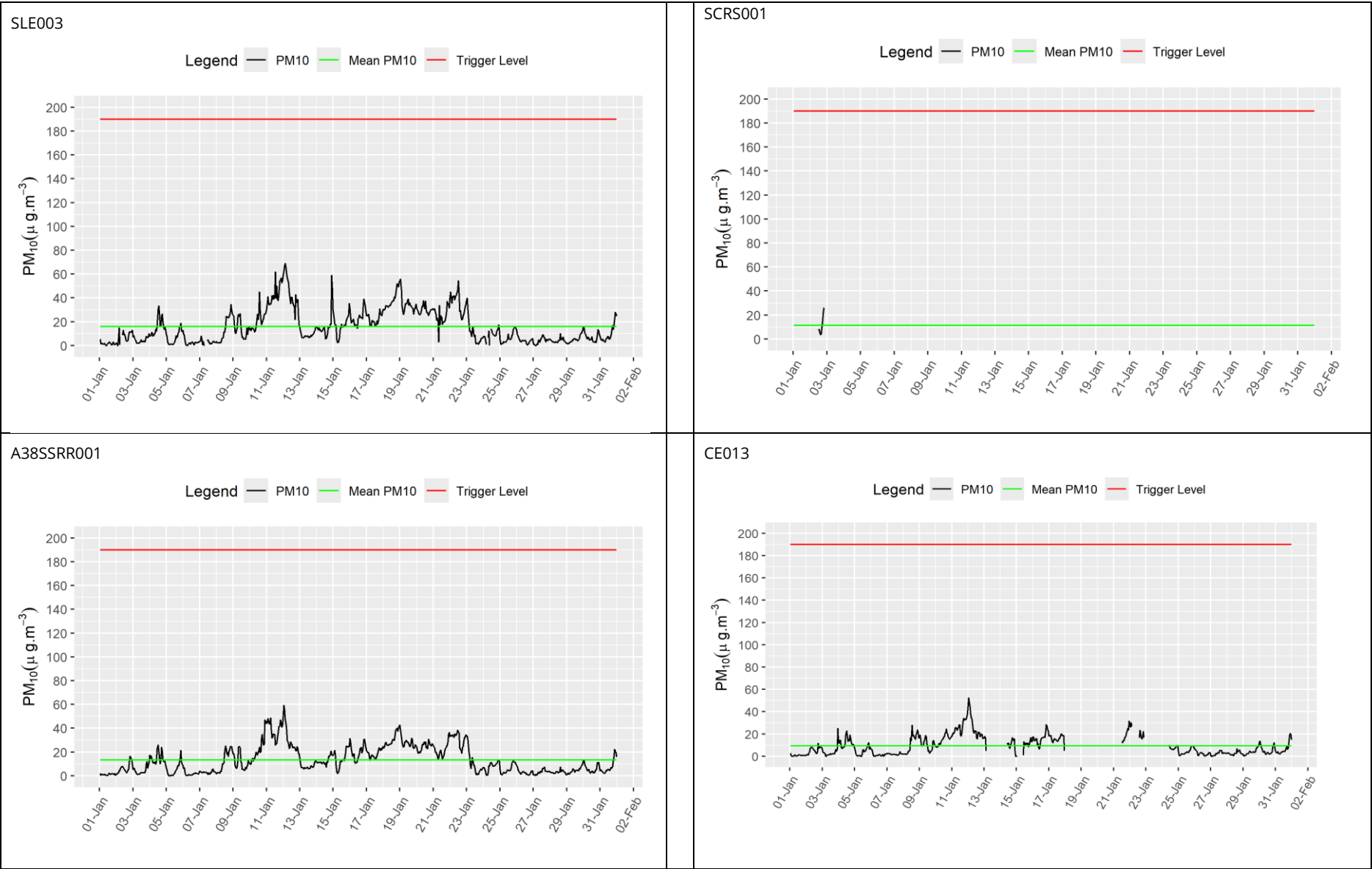
Legend Dust Monitor District Borough Unitary Boundaries	Map Number	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.
	Map Name	
	Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023 Contains data from OS Zoomstack	Monitoring Locations In LDC (Sheet 2)
	Lichfield District Council	Scale at A3: 1:22,000 Metres Doc Number: Date: 19/12/24

Appendix B – Dust Monitoring Results

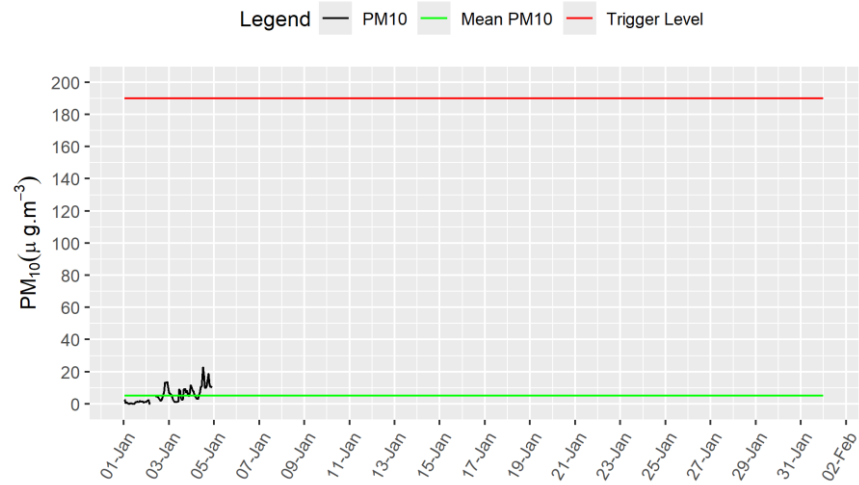
Table 1: Dust Monitoring Locations and Results

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 Lane Produce South, Shaw Lane Embankment	N	Yes	No	16.0	0.1	69.0	0	98.4
SCRS001	414895, 310500	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	11.3	3.6	26.1	0	1.2
A38SSRR001	414345, 310607	Thompson Way, Streethay, Fradley and Streethay	L	Yes	No	13.4	0.2	59.3	0	99.7
CE013	413915, 312581	Midlands Karting, Wood End Lane	L	Yes	No	9.3	0.1	52.5	0	76.5
WCC001	414682, 308298	Whittington Hill Farm, Darnford Lane	M	Yes	No	5.2	0.1	22.9	0	11.7
WCC002	414856, 308274	Ellfield House, Darnford House	M	Yes	No	8.2	0.1	44.4	0	47.0
SCS001	415081, 303691	The Lodge, Rock Hill	M	Yes	No	10.3	0.1	50.1	0	63.3

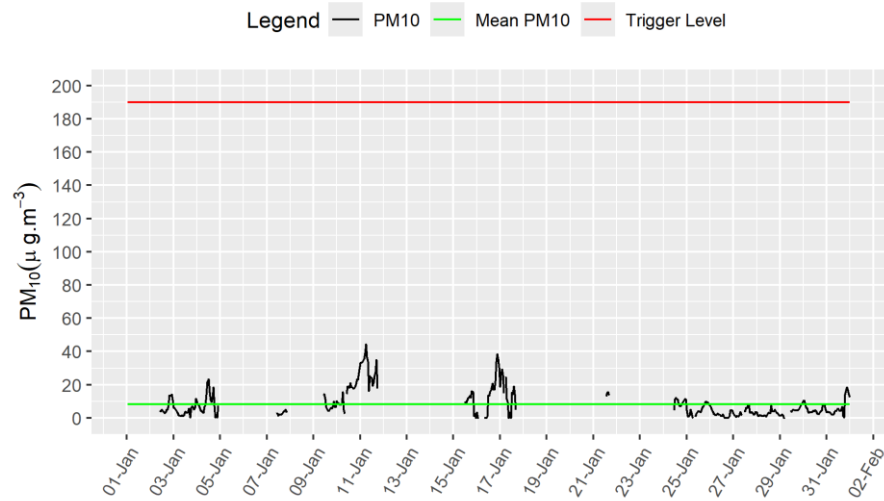
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



WCC001



WCC002



SCS001

