

## Air Quality and Dust Monitoring Monthly Report – March 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 March 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](http://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

- Darnford Lane Overbridge construction.

### Swinfen Cutting South

- Mobilisation of Joint Venture Team of Bachy Soletache and Balfour Beatty Ground Engineering (SB3) to A5.

## **Sublot 8.2**

### Streethay Area 3/4/5/6 works

- Excavation for civil works and pile cropping, with an excavator, ground breaking (concrete, tarmac) with a breaker, ground movements with Articulated Dump Trucks (ADTs) and tippers, and compaction with a 4 tonne roller and wacker plates.
- Sheetpiles installation with rig, crane and MEWP. Vibro hammer and impact hammer used to install the sheetpiles as per the depth required by the Temporary Works (TW).
- Platform maintenance with stone delivery lorries, stone removal and installation with use of an excavator and a roller for compaction.
- Deliveries with lorries and hiab.
- Pile cropping with a 5-tonne excavator with breaker, a 40-tonne excavator, a drilling tool, a milling tool, and a link cropper.

#### Streethay Area 1 works

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

#### **Sublot 8.3**

#### Streethay Area 3/4/5/6 works

- Excavation for civil works and pile cropping, with a excavator, ground breaking (concrete, tarmac) with a breaker, ground movements with Articulated Dump Trucks (ADTs) and tippers, and compaction with a 4 tonne roller and wacker plates.
- Sheetpiles installation with rig, crane and MEWP. Vibro hammer and impact hammer used to install the sheetpiles as per the depth required by the Temporary Works (TW).
- Platform maintenance with stone delivery lorries, stone removal and installation with use of an excavator and a roller for compaction.
- Deliveries with lorries and hiab.
- Pile cropping with a 5-tonne excavator with breaker, a 40-tonne excavator, a drilling tool, a milling tool, and a link cropper.

#### Streethay Area 1 works

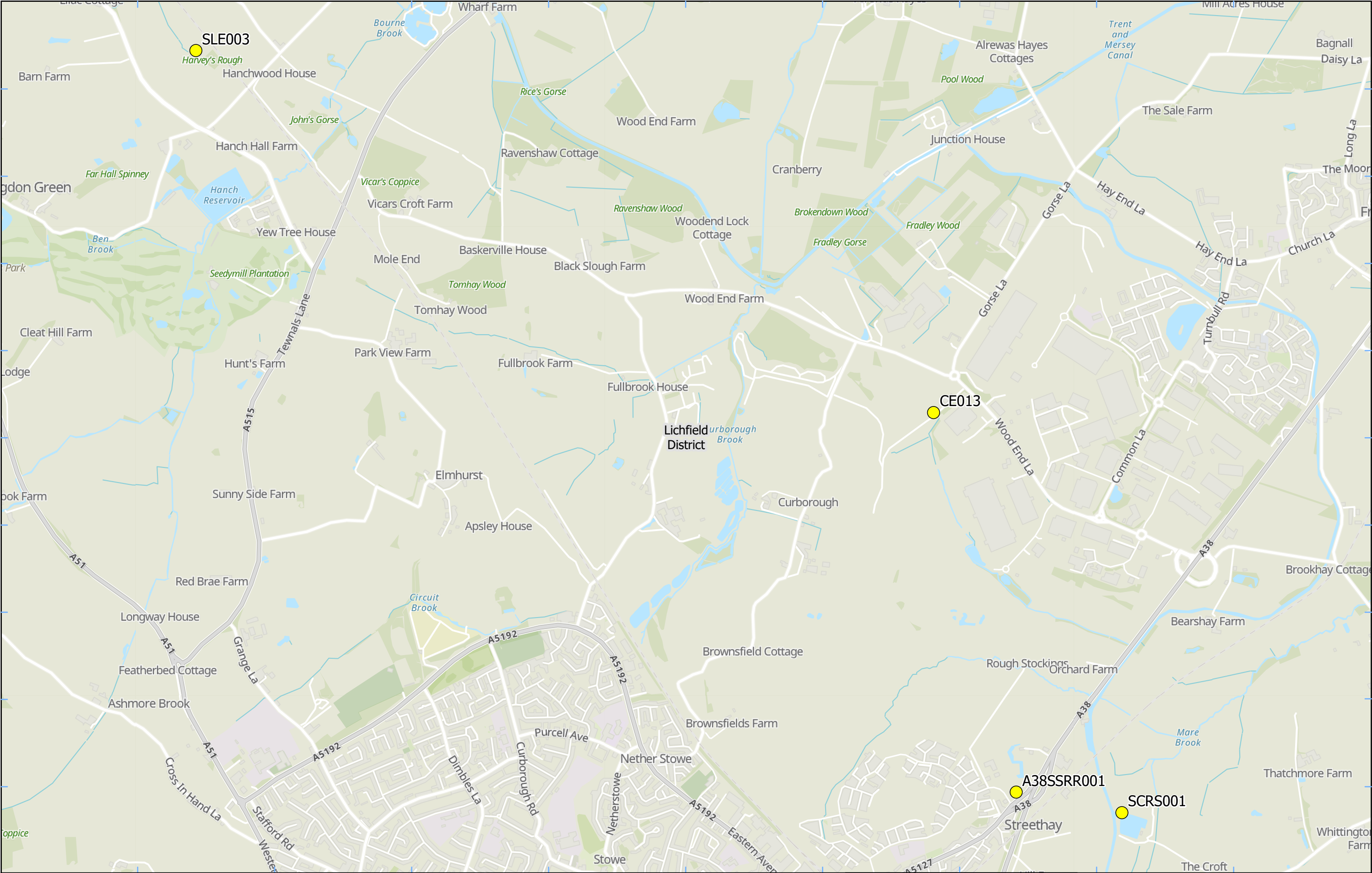
- Deliveries and collections.
- Road sweepers.
- Maintenance.
- Strimming.
- Plant used: Small items of plants including plate compacters, excavators, dumpers and a strimming machine.

- 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 PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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 (March 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor SLE003 – A field calibration and fault investigation site visit were done on 6th March 2025, and a monitor swap out was done on 21st March 2025. A lab calibration swap out is scheduled for 15th April 2025.
  - Monitor WCC001 – A site visit is to be scheduled to resolve the monitor issues.
- 1.1.10 There were no (0) complaints received during the reporting period (March 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
<b>Monitoring Locations In LDC (Sheet 1)</b>
<b>Lichfield District Council</b>




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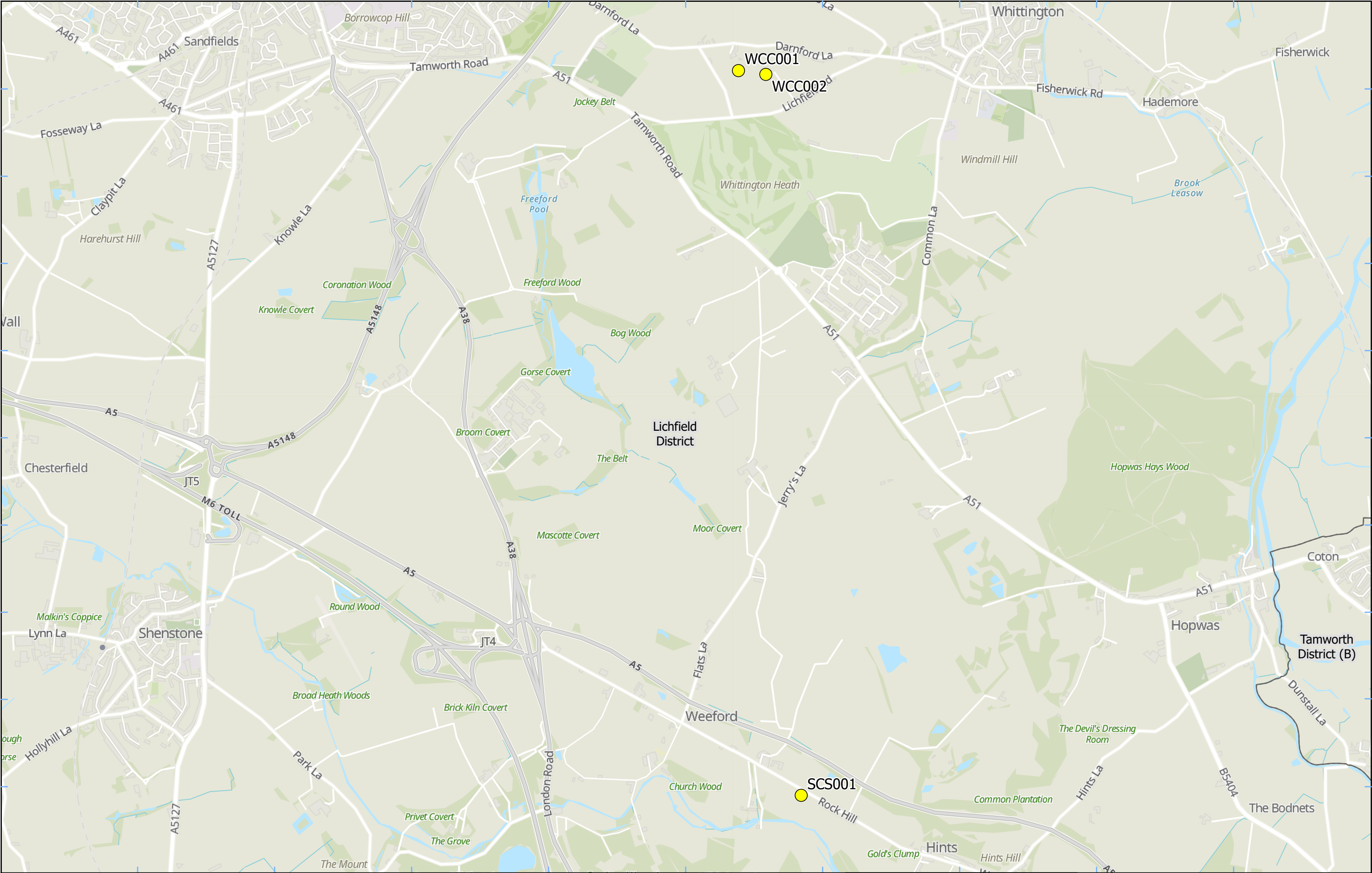
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Metres

**Date:** 19/12/24





<b>Legend</b> 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: <span style="float: right;">Date: 19/12/24</span>

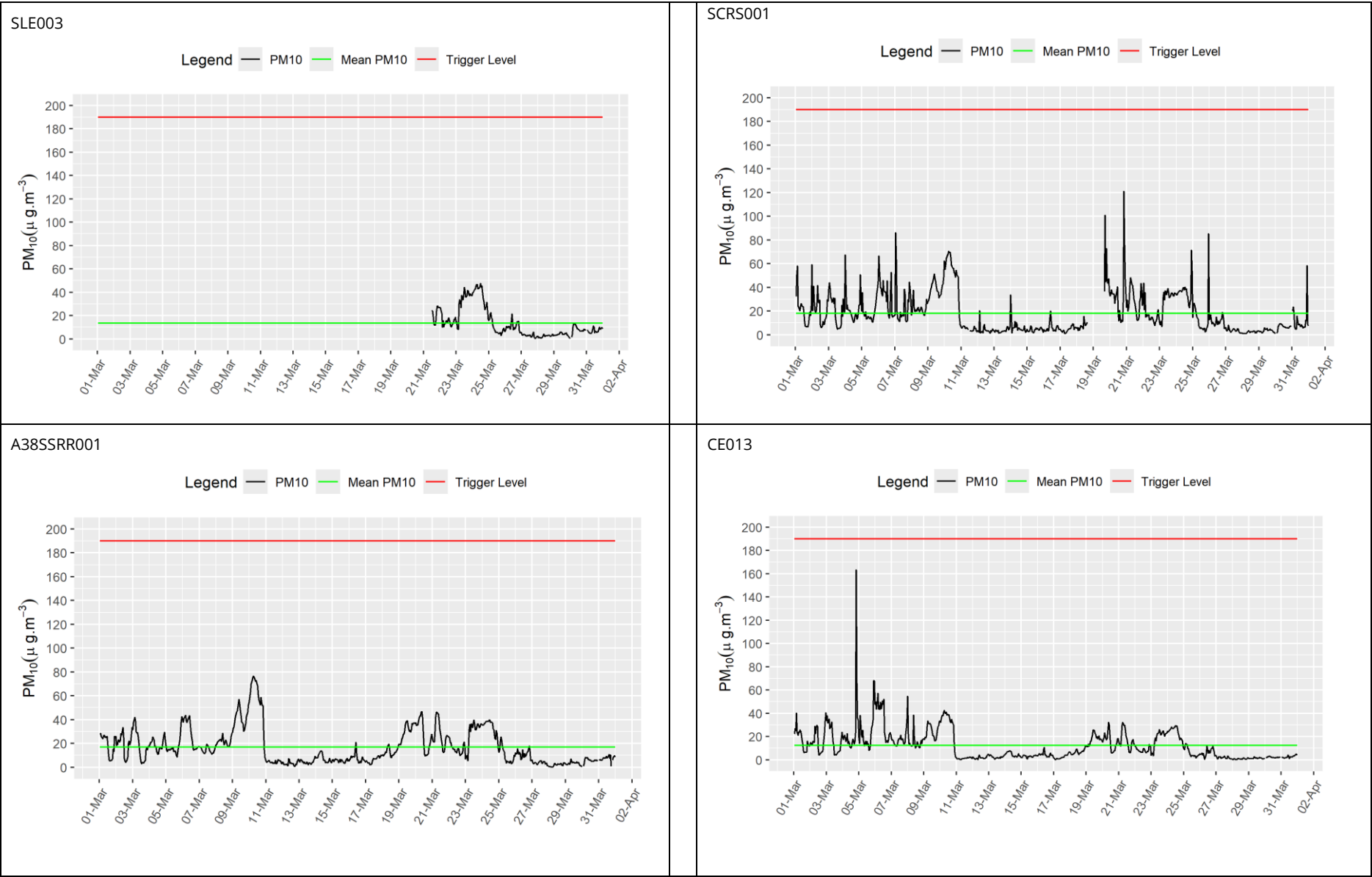


## Appendix B – Dust Monitoring Results

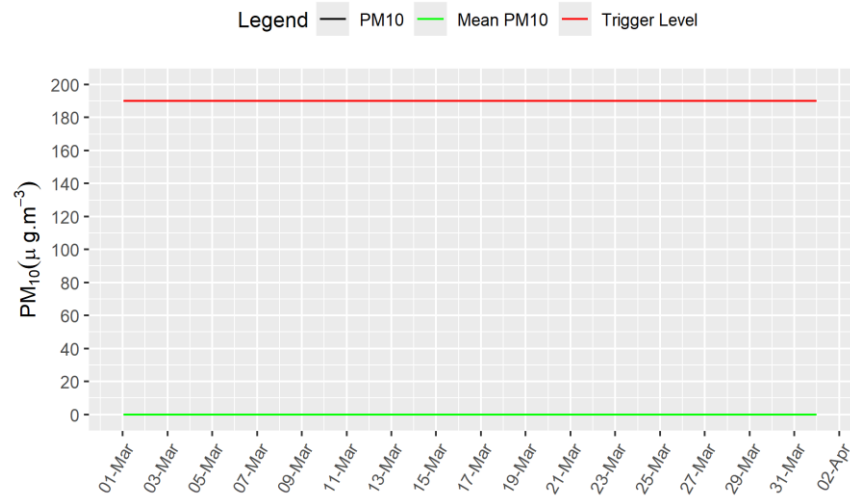
Table 1: Dust Monitoring Locations and Results

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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture for Month (%)
SLE003	410077, 314464	New Farm Produce South, Shaw Lane Embankment	L	Yes	No	13.5	0.5	47.5	0	33.7
SCRS001	414895, 310500	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	17.9	0.9	121.2	0	96.4
A38SSRR001	414345, 310607	Thompson Way, Streethay, Fradley and Streethay	L	Yes	No	16.8	0.1	76.6	0	99.6
CE013	413915, 312581	Midlands Karting, Wood End Lane	L	Yes	No	12.3	0.1	163.4	0	99.7
WCC001	414682, 308298	Whittington Hill Farm, Darnford Lane	M	Yes	No	-	-	-	-	-
WCC002	414856, 308274	Ellfield House, Darnford House	M	Yes	No	15.7	0.7	75.3	0	99.7
SCS001	415081, 303691	The Lodge, Rock Hill	M	Yes	No	16.5	0.1	82.8	0	99.7

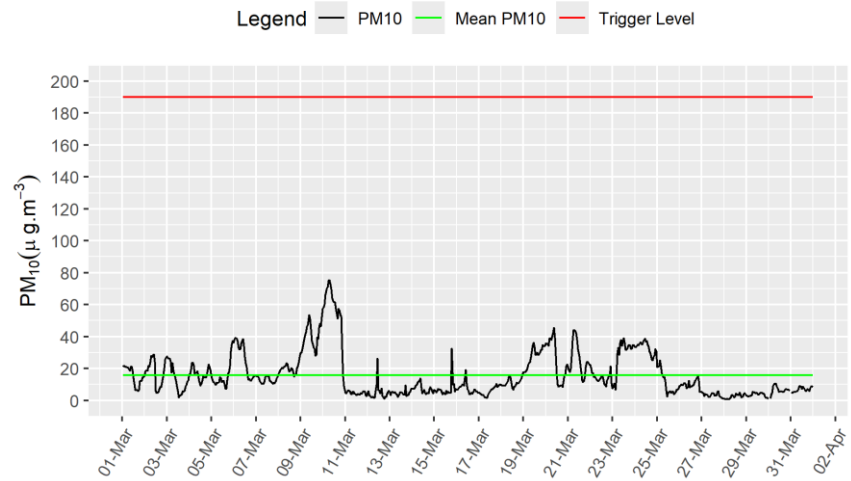
Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



WCC001



WCC002



SCS001

