

## Air Quality and Dust Monitoring Monthly Report – December 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 December 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

- No works occurred in December 2025.

### Swinfen Cutting South

- Construction of A5 overbridge.

## **Sublot 8.2**

### Streethay Area 6 works

- Road works
- Technical backfill installation.
- Excavation to road formation level.
- Road build-up including stone deliveries with lorries, stone removal with excavators, stone installation with excavators, compaction with roller and wacker plates.
- Asphalt installation on top of the deck with paver, compaction with roller, delivery with wagon.

### Streethay Area 7 works

- Compound construction: excavation for foundation construction with excavator and dumper, compaction with roller, drainage, concrete pour.
- Maintenance with excavator, strimming machine, tractor.

#### Streethay Area 1 works

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

#### **Sublot 8.3**

#### Streethay Area 1 works

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

#### Streethay Area 6 works

- Road works and sheet pile installation.
- Technical backfill installation.
- Excavation to road formation level.
- Road build-up including stone deliveries with lorries, stone removal with excavators, stone installation with excavators, compaction with roller and wacker plates.
- Asphalt installation on top of the deck with paver, compaction with roller, delivery with wagon.
- Installation of new sheet piles with leader rig fitted with vibro hammer and impact hammer. Pre-augering done with Continuous Flight Auger (CFA) rig. Liftings done with 70 tonne crane.

#### Streethay Area 7 works

- Compound construction: excavation for foundation construction with an excavator and a dumper, compaction with a roller, drainage and concrete pours.
- Maintenance with an excavator, a strimming machine and a tractor.

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 (December 2025).

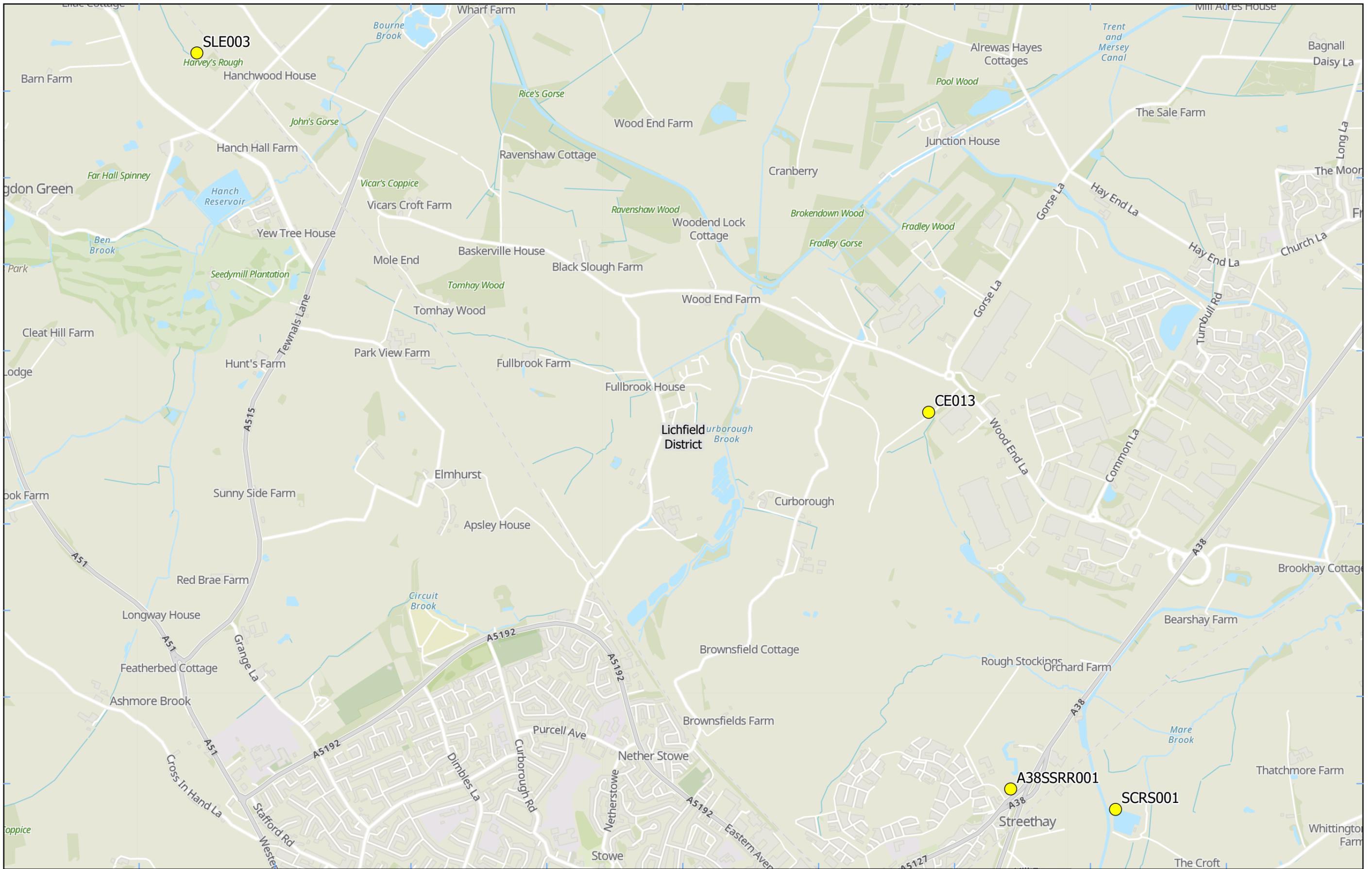
1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor CE013 – A battery refresh is scheduled for 21st January 2026.
- Monitor SCRS001 – A battery refresh is scheduled for 16th January 2026.
- Monitor SLE003 – The power supply issues have been resolved.
- Monitor WCC001 – The power supply issues have been resolved.
- Monitor WCC002 – The power supply issues have been resolved.
- Monitor SCS001 – A battery refresh took place on 19th December 2025. After the site visit, the issues were resolved.
- Monitor TRO001 – A battery refresh is being scheduled.

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

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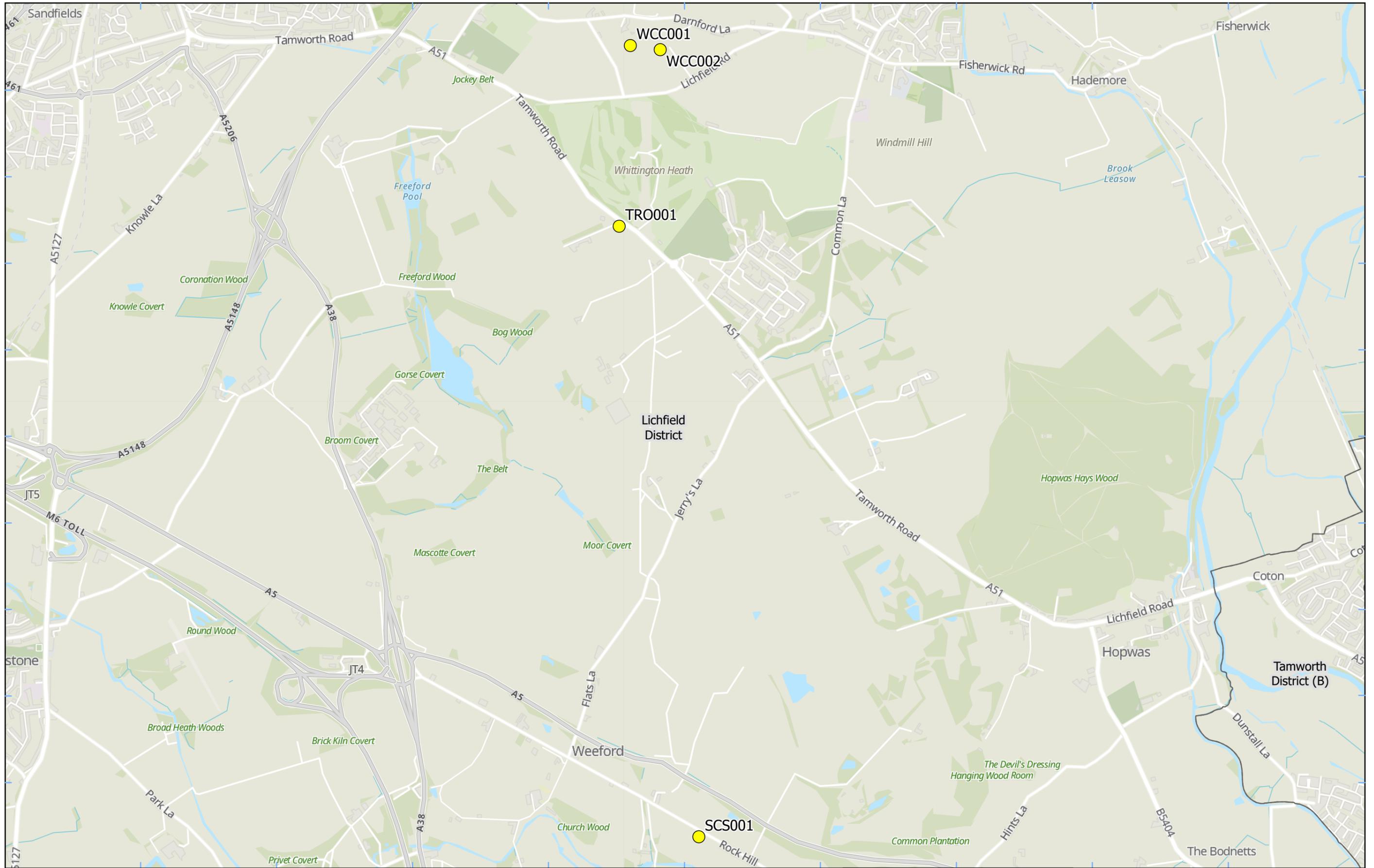
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Metres

Date: 19/12/24



**Legend**  
 Dust Monitor  
 District Borough Unitary Boundaries

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Map Number	
Map Name	<b>Monitoring Locations In LDC (Sheet 2)</b>
	<b>Lichfield District Council</b>

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Scale at A3: 1:20,000

Metres

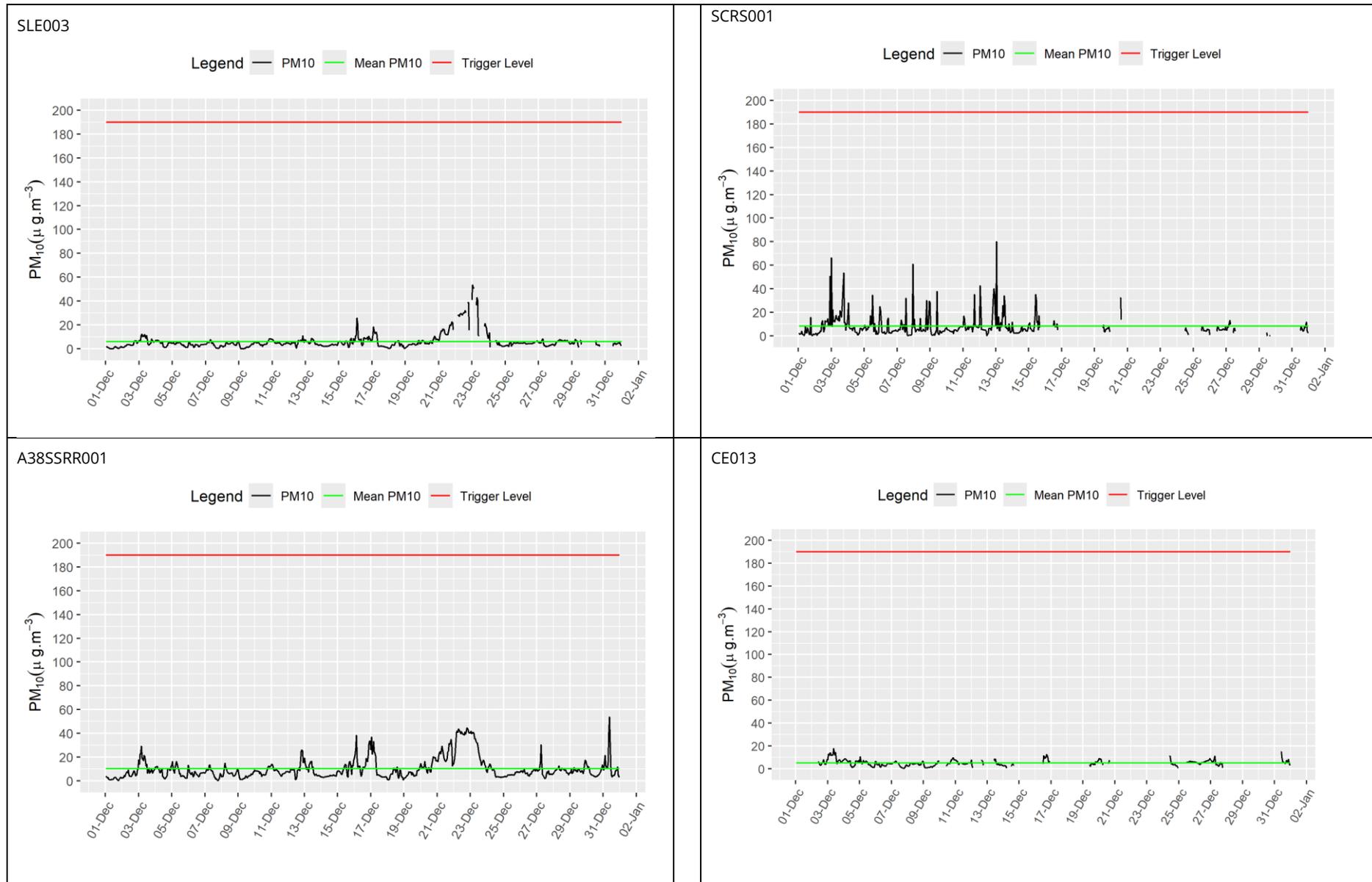
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## Appendix B – Dust Monitoring Results

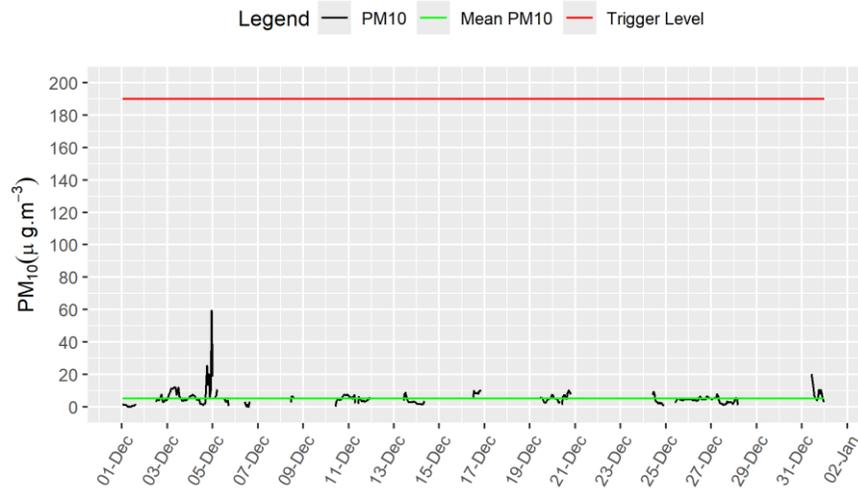
Table 1: Dust Monitoring Locations and Results

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 <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	6.1	0.1	53.5	0	92.1
SCRS001	414895, 310500	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	8.3	0.1	80.0	0	58.7
A38SSRR001	414345, 310607	Thompson Way, Streethay, Fradley and Streethay	M	Yes	No	10.4	0.3	53.8	0	100.0
CE013	413915, 312581	Midlands Karting, Wood End Lane	L	Yes	No	5.3	0.3	17.8	0	50.1
WCC001	414682, 308298	Whittington Hill Farm, Darnford Lane	M	Yes	No	5.4	0.1	59.6	0	39.7
WCC002	414856, 308274	Ellfield House, Darnford House	M	Yes	No	3.9	0.1	30.4	0	58.3
SCS001	415081, 303691	The Lodge, Rock Hill	M	Yes	No	6.6	0.1	29.6	0	79.8
TRO001	414617, 307246	South Lodge	M	Yes	No	5.1	0.1	37.4	0	45.6

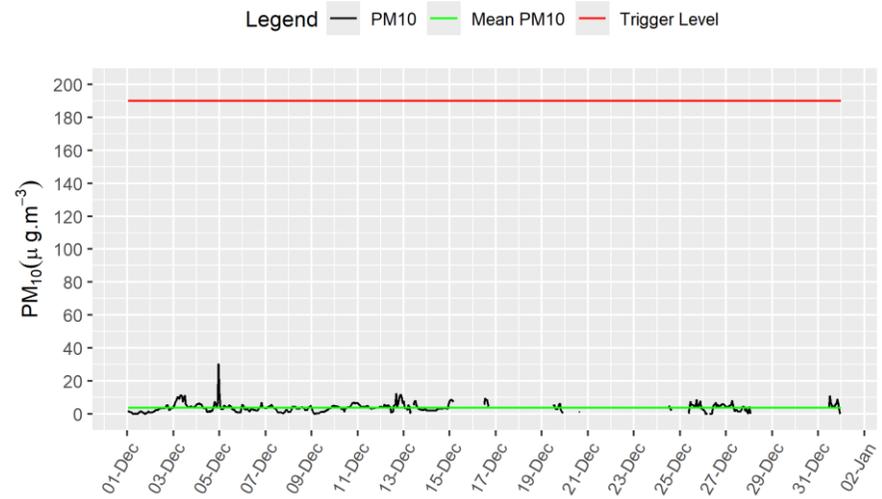
Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



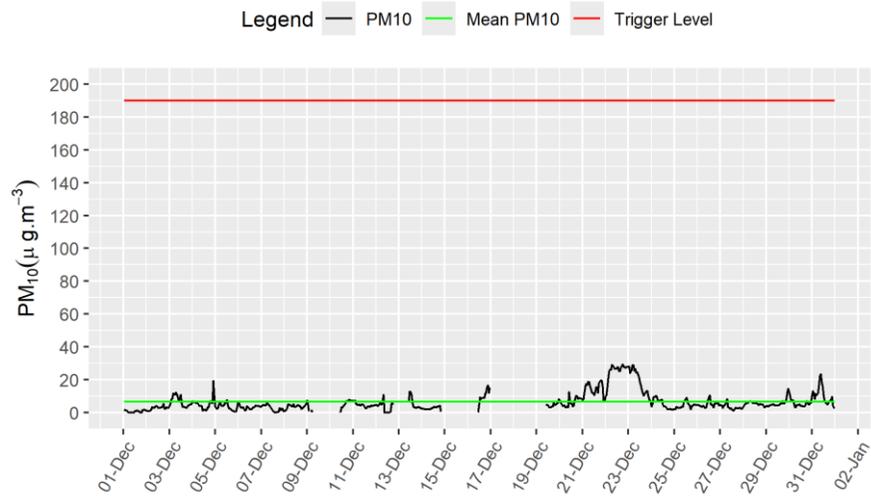
WCC001



WCC002



SCS001



TRO001

