

Air Quality and Dust Monitoring Monthly Report – December 2021

Stratford-on-Avon 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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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 the Stratford-on-Avon District Council (SoADC) during December 2021.

1.1.2 Figure 1 and 2 in Appendix A indicate the current worksites together with the dust monitoring locations for December 2021.

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 1A

- Assembly and commissioning of the Tunnel Boring Machine (TBM);
- TBM drive and logistics;
- Operation of the Slurry Treatment Plant; and
- Operation of the Water Treatment Plant

Sublot 2A2

- Topsoil stripping;
- Haul roads construction; and
- Earthworks cutting

Southam Worksite (Harp Farm)

- Further establishment of the temporary and main site compound
- Installation of drainage and culverts, excavation of ponds
- Topsoil stripping and material movement
- Demolition works (Greenleaf Nursery) and associated crushing works
- De-vegetation works
- Establishment of the site access road

1.1.5 Three (3) dust monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.

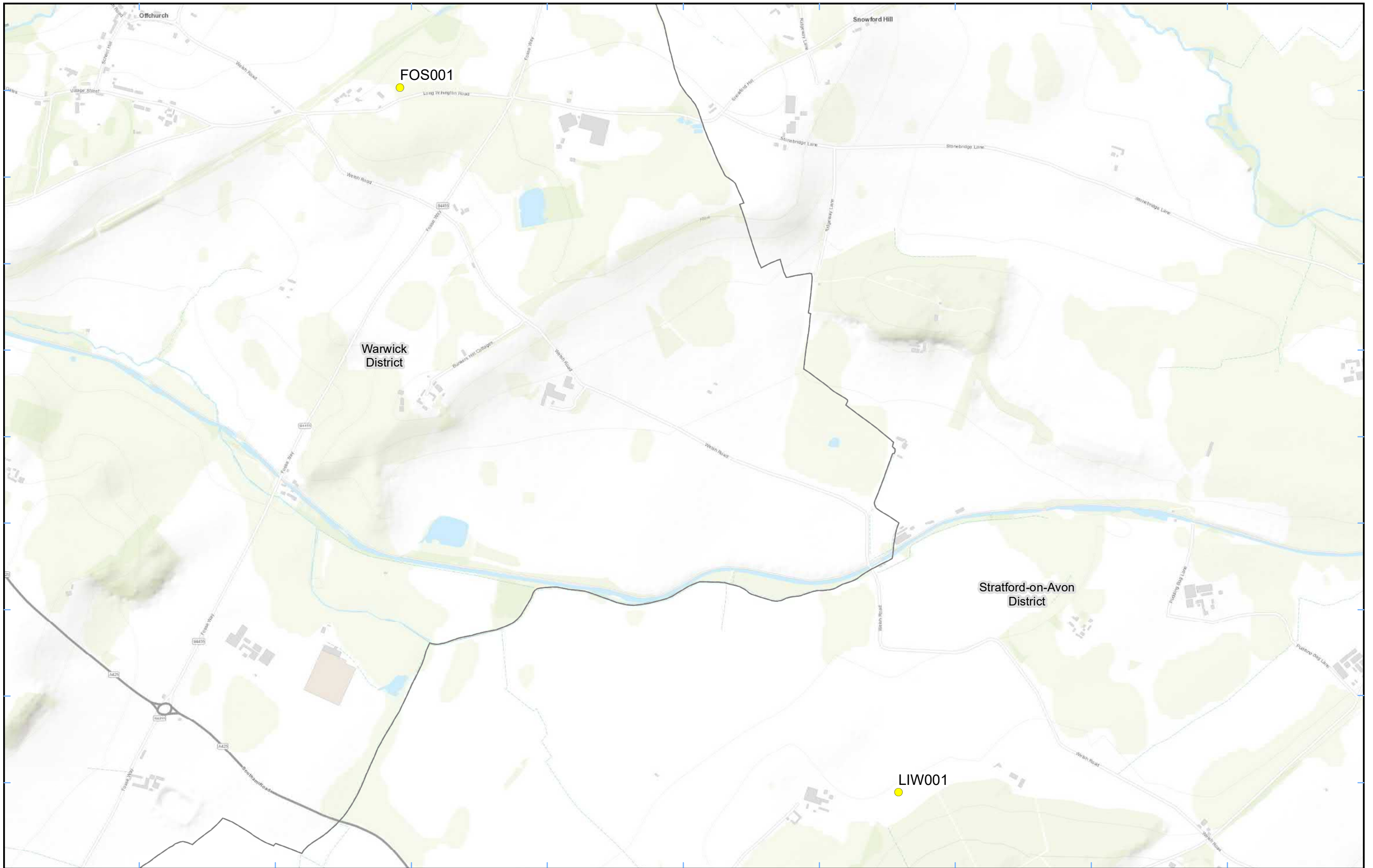
1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitor presented in Figure 3. All continuous

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 mitigations.

- 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 (December 2021).
- 1.1.9 Data capture was below 90% for all monitors due to sim errors and power supply issues.
- 1.1.10 There were no (0) complaints received during this reporting period.

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 2: Worksites and monitoring locations within the SoADC



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries

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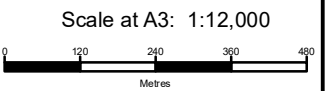
Map Number
 Map Name
**Worksite and Monitoring Locations
 In SoADC (Sheet 1)**
 Stratford-on-Avon District Council



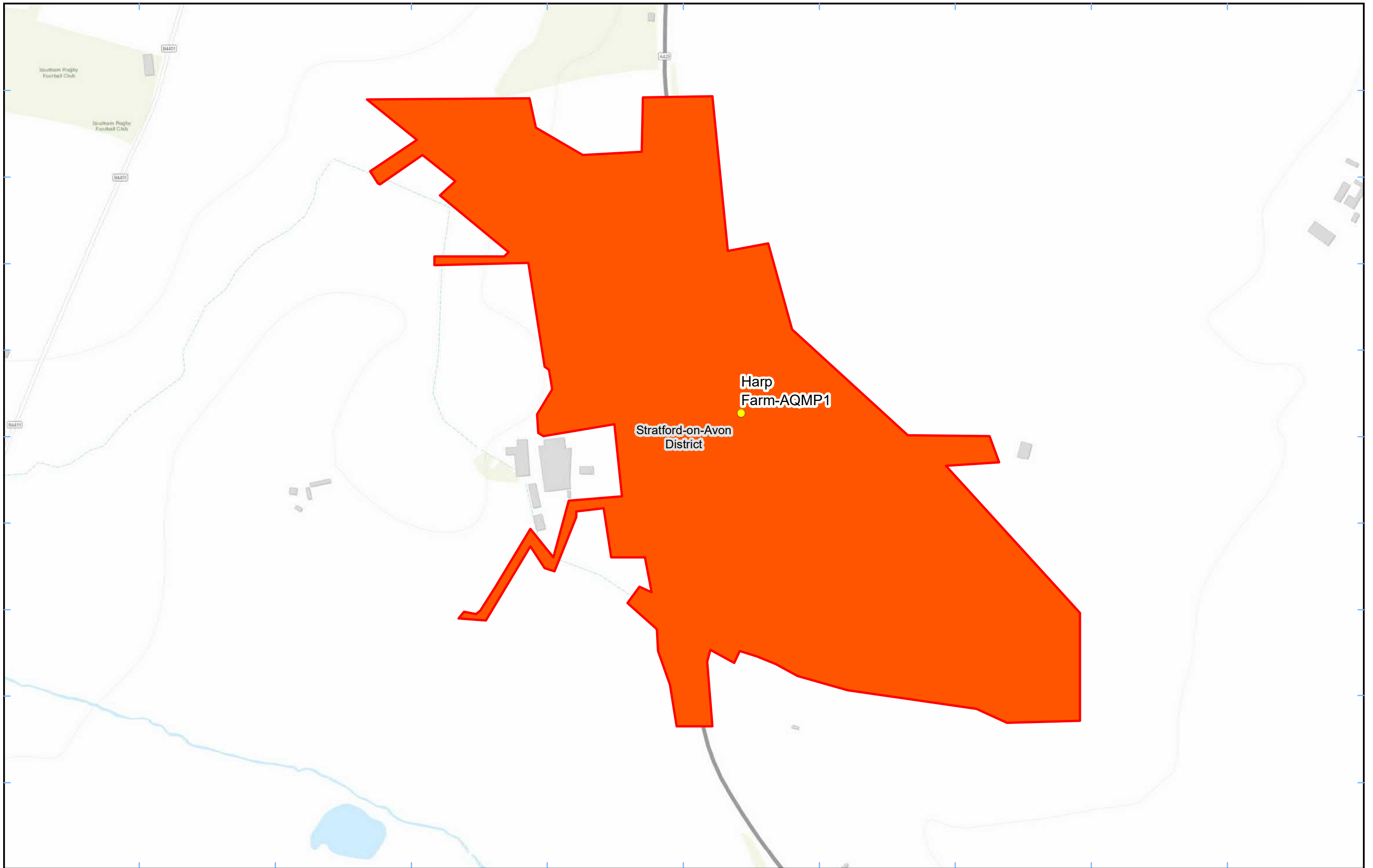
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- Legend**
- Dust Monitor
 - Worksite
 - District Borough Unitary Boundaries

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Map Number
Map Name Worksite and Monitoring Locations In SoADC (Sheet 2)
Stratford-on-Avon District Council

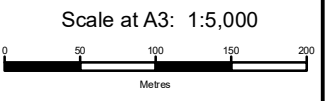


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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and December 2021 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 (%)
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	0.5	0.1	10.1	0	63.2
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	4.3	0.1	22.0	0	32.5
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	6.2	0.1	36.0	0	49.3

Figure 4: Construction dust 1-hour mean mean indicative PM₁₀ concentration for all dust monitors

