

Air Quality and Dust Monitoring Monthly Report – December 2022

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 dust monitoring undertaken in the Stratford-on-Avon District Council (SoADC) during December 2022.
- 1.1.2 Figure 1 and 2 in Appendix A present the current worksite together with the dust monitoring location for December 2022.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report 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:

Southam worksite

- Installation of drainage and culverts, excavation of ponds
- Topsoil stripping and material movement
- Further establishment of the site access road
- Bulk earthworks on Windmill Hill and Ladbroke Cutting
- Earthworks and piling platform at Ladbroke Grove FAOB, Lower Radbourne FAOB.
- Piling at A423 OB.
- Earthworks and abutment works for Kineton Road Overbridge
- Kineton Road and A423 surveys
- HDD works at Southam

The Long Itchington Wood North Portal site (Sublot 1A)

- 24/7 tunnel boring works;
- Operation of the Slurry Treatment Plant; and
- Operation of the Water Treatment Plant.

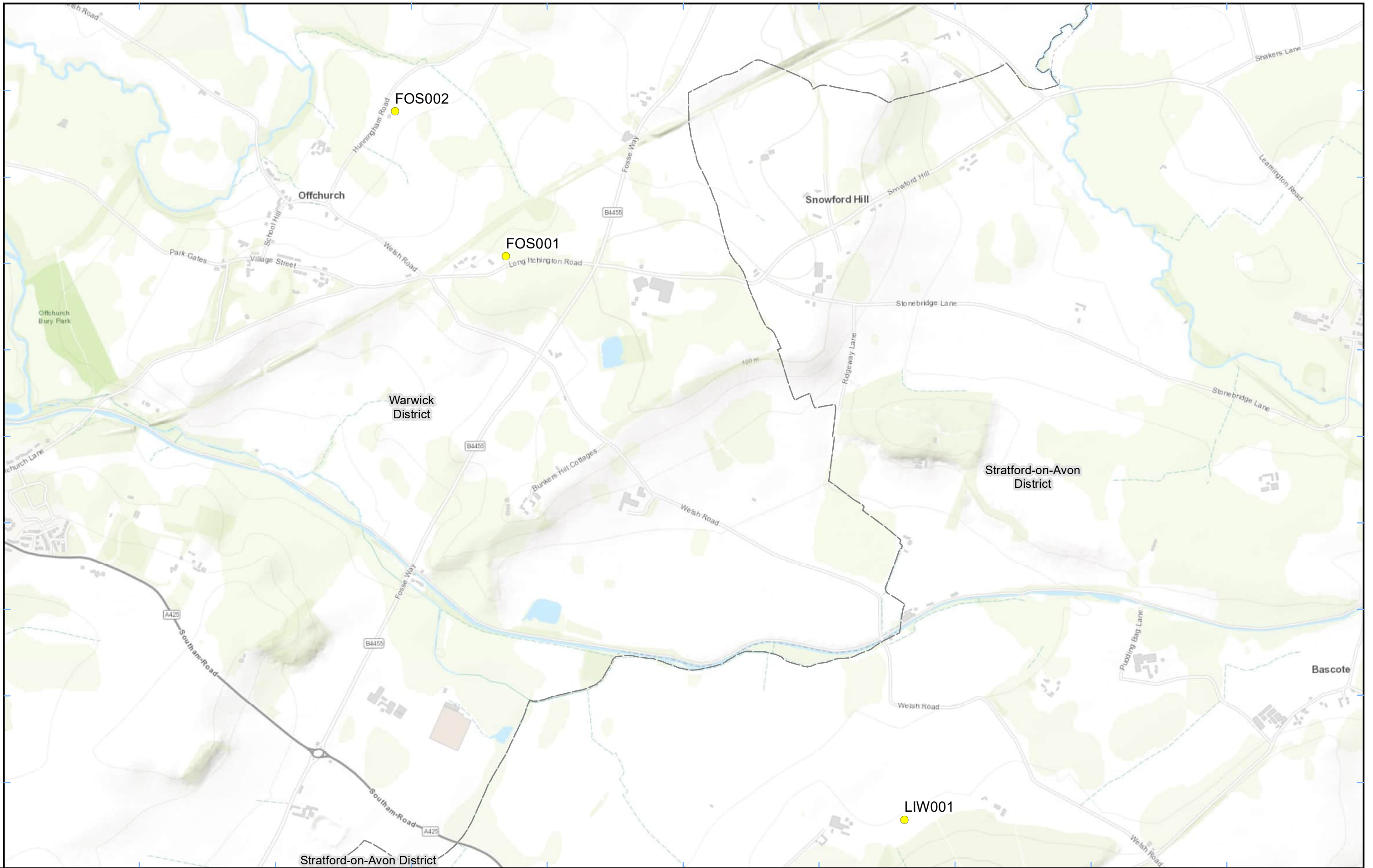
The Fosse Way Compound site (Sublot 2A2)

- Topsoil stripping;
- Haul roads construction; and
- Earthworks cutting (transporting material to River Leam embankment via haul road).

- 1.1.5 Five (5) dust monitors are installed at the worksite, 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 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 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 (December 2022).
- 1.1.9 Data capture was below 90% for multiple monitors due to lack of solar charge.
- 1.1.10 No (0) complaints were received during the reporting period (December 2022).

Appendix A –Monitoring Locations


Figures 1 and 2: Worksite and Monitoring locations within the SoADC



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries


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

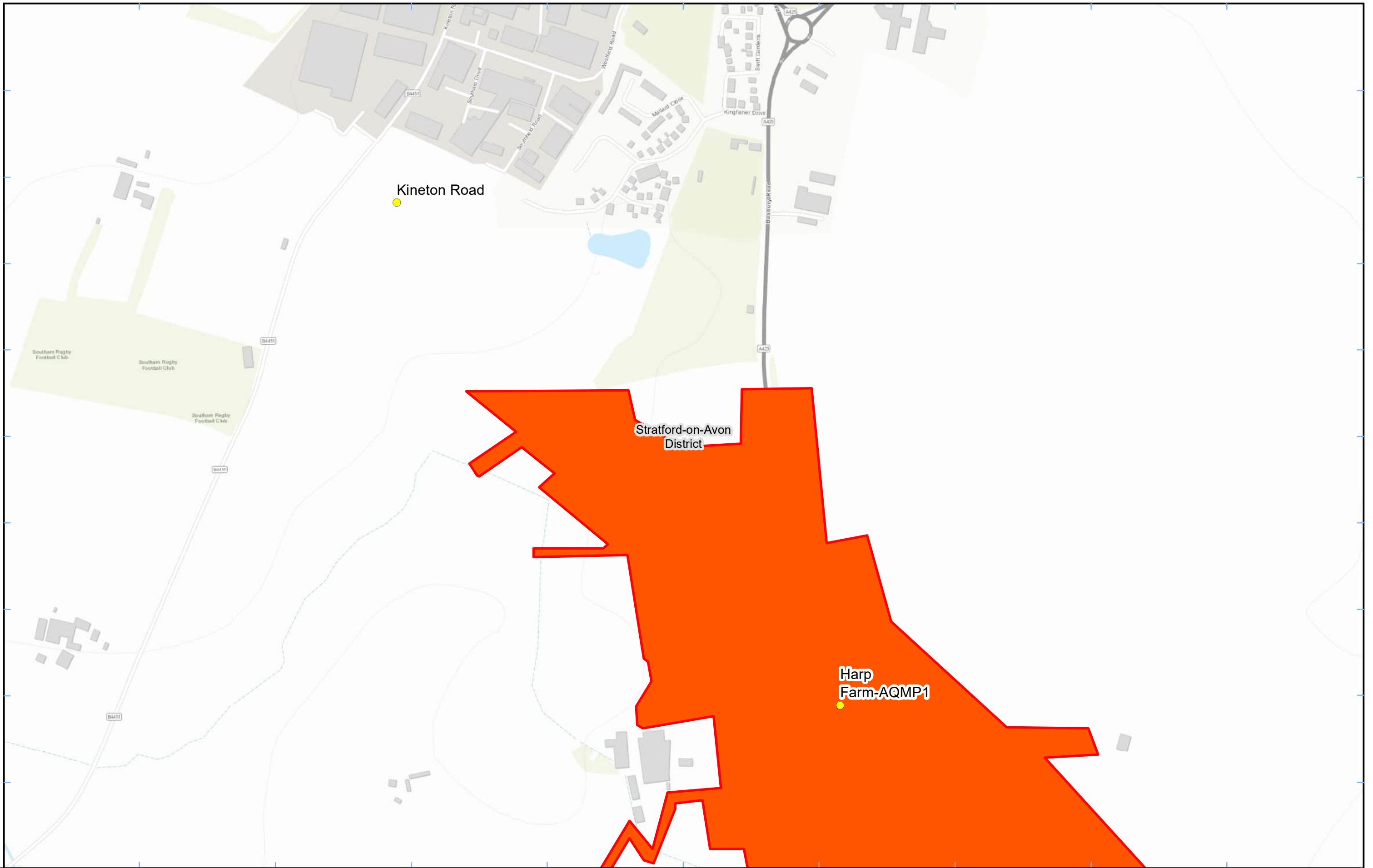

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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name
**Worksite & 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 2022 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	1-hour data capture (%)
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	12.5	1.0	54.0	0	64.2
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	10.5	1.0	107.0	0	59.8
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	10.0	0.1	33.1	0	96.6
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	No	11.5	0.1	41.7	0	82.8
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	No	2.4	0.1	28.6	0	52.8

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

