

## Air Quality and Dust Monitoring Monthly Report – October 2022

Stratford-on-Avon 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 dust monitoring undertaken in the Stratford-on-Avon District Council (SoADC) during October 2022.
- 1.1.2 Figures 1 and 2 in Appendix A present the current worksite together with the dust monitoring location for October 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](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:

## **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.

## **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).

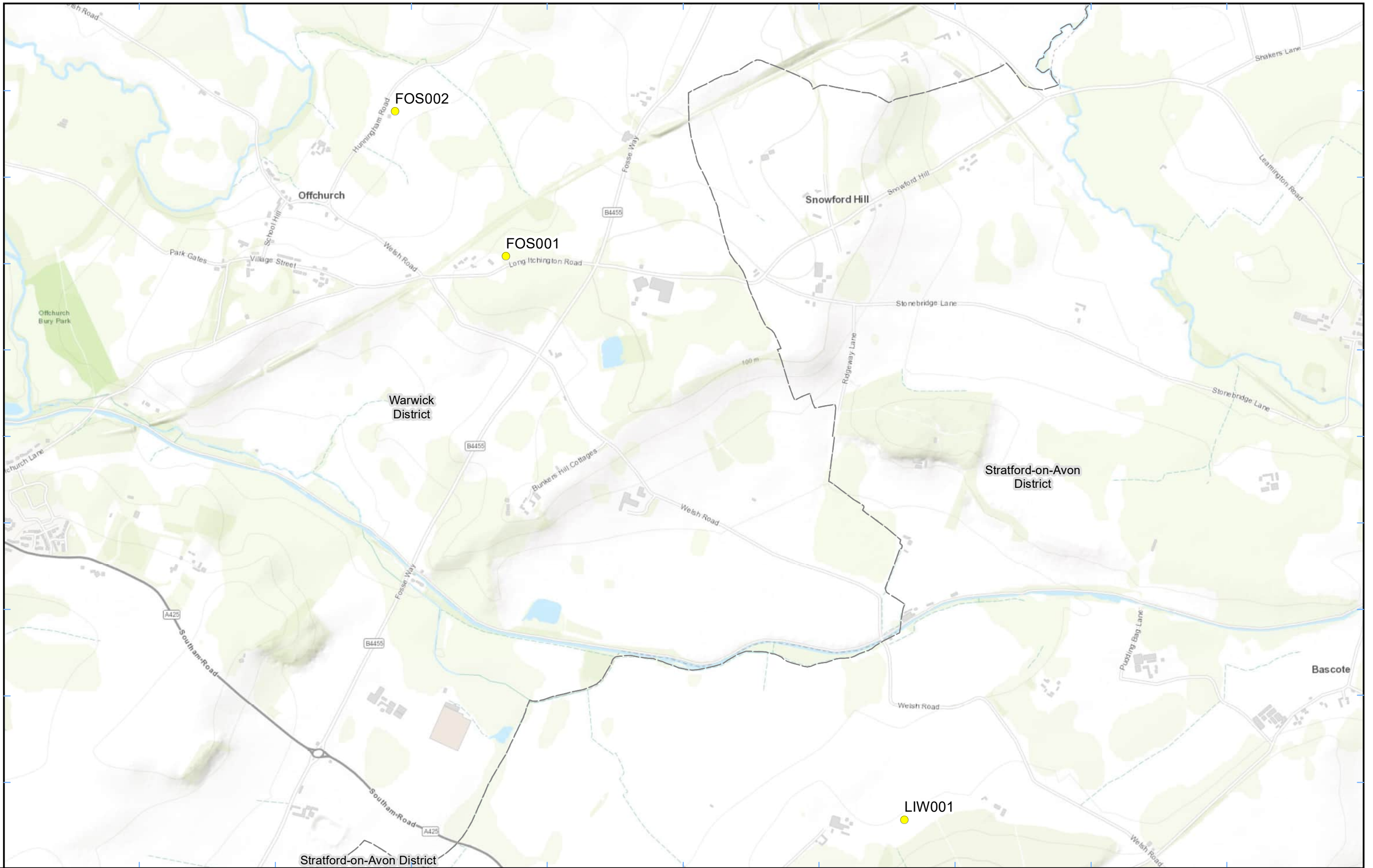
## **Kineton Road worksite**

- Piling works and preparation of piling mats
- Bulk earthworks for cutting
- Landscape fill for embankments
- Stockpiling and Stockpile maintenance
- Site Traffic
- Drainage – ditches and ponds, general maintenance

- 1.1.5 Five (5) dust monitors are installed at 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.
- 1.1.9 No (0) complaints were received during the reporting period (October 2022).
- 1.1.10 Data capture for FOS002 was below 90% due to it being newly installed in October.

# 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

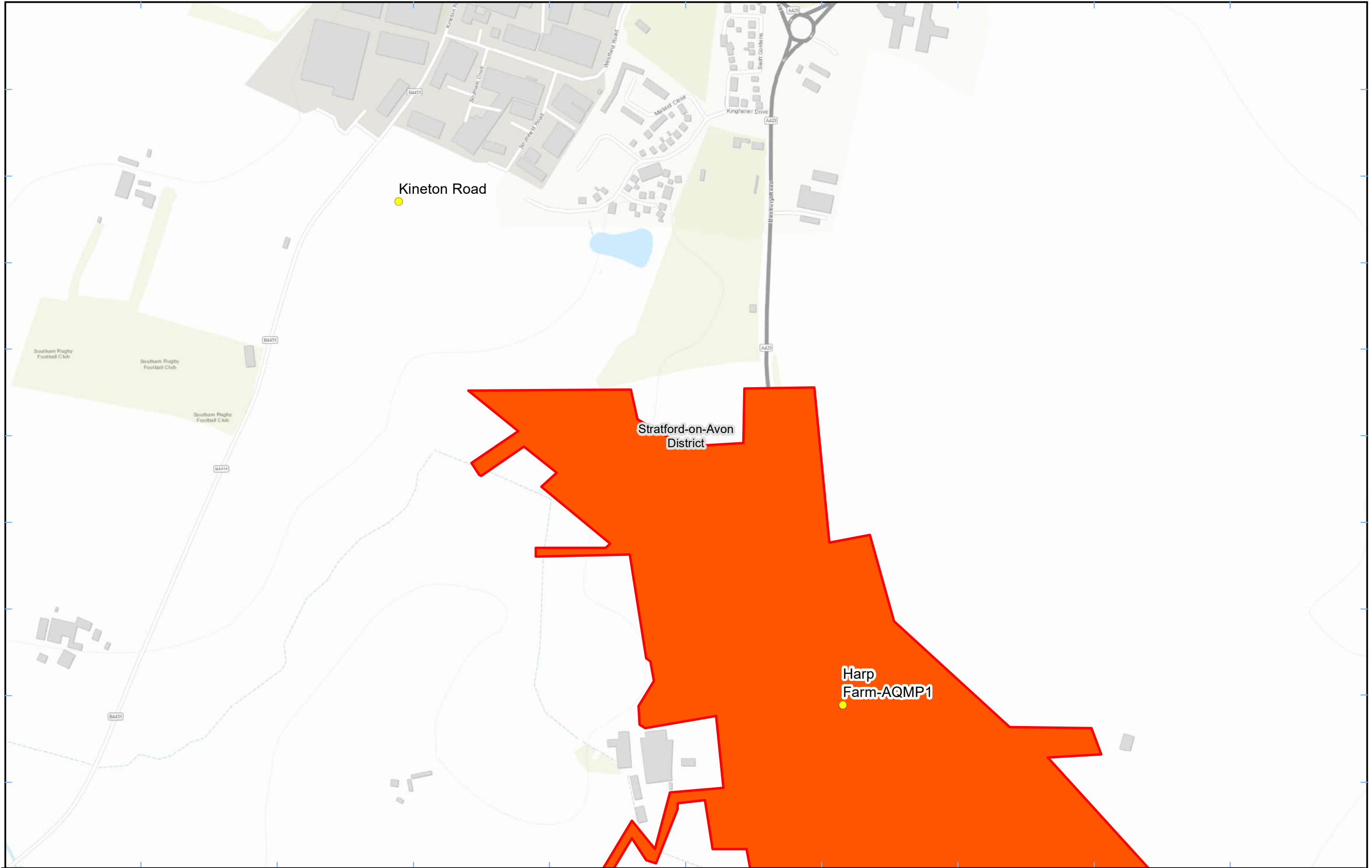

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 0 150 300 450 600 Metres

Doc Number: \_\_\_\_\_ Date: 30/11/22



**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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**Date: 30/11/22**



## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and October 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 <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> | 1-hour data capture (%) |
|--------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|-------------------------|
| Harp Farm-AQMP1    | 441738, 260075    | Site boundary adjacent property on Harp Farm  | M                         | Yes                                  | Yes   | 6.8   | 1.0  | 38.0   | 0   | 99.6                    |
| Kineton Rd         | 441092, 260808    | Adjacent to Kineton Road roundabout   | M                         | Yes                                  | Yes   | 6.3   | 1.0  | 37.0   | 0   | 99.1                    |
| LIW001             | 438656, 263180    | Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI. | M                         | Yes                                  | No  | 5.1   | 0.1  | 186.5  | 0   | 99.6                    |
| FOS001             | 436914, 265643    | Fosse Way Compound, on Long Itchington Road   | L                         | Yes                                  | No  | 4.4   | 0.4  | 24.7   | 0   | 99.9                    |
| FOS002             | 436429, 266276    | Valley Fields, Fosse Way Main   | L                         | Yes                                  | No  | 0.3   | 0.1  | 5.5  | 0   | 57.3                    |



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

