

Air Quality and Dust Monitoring Monthly Report – January 2024

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 air quality and dust monitoring undertaken in Stratford-on-Avon District (SoADC) during January 2024.

1.1.2 Figure 1 in Appendix A present 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, 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, Figure 1, include:

Long Itchington Wood North Portal (Sublot 1A)

- Reservoir new shape and line.
- Muck bin wall removal.
- Cross passages first stage concrete ongoing.
- Long-hole viaduct works.

Southam worksite

- Installation of drainage and culverts
- Piling works at Oxford Canal
- Topsoil stripping and material movement
- Bulk earthworks Southam Cutting, Windmill Hill & Ladbrooke Cutting
- Southam Embankment and Oxford Canal bulk earthworks
- Earthworks for piling platform works at River Itchen Viaduct.
- Earthworks for piling platform works at Lower Radbourne Farm AOB.
- Pouring of pile cap at Lower Radbourne North and South Viaduct.

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

1.1.6 The dust monitoring location and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 2. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of

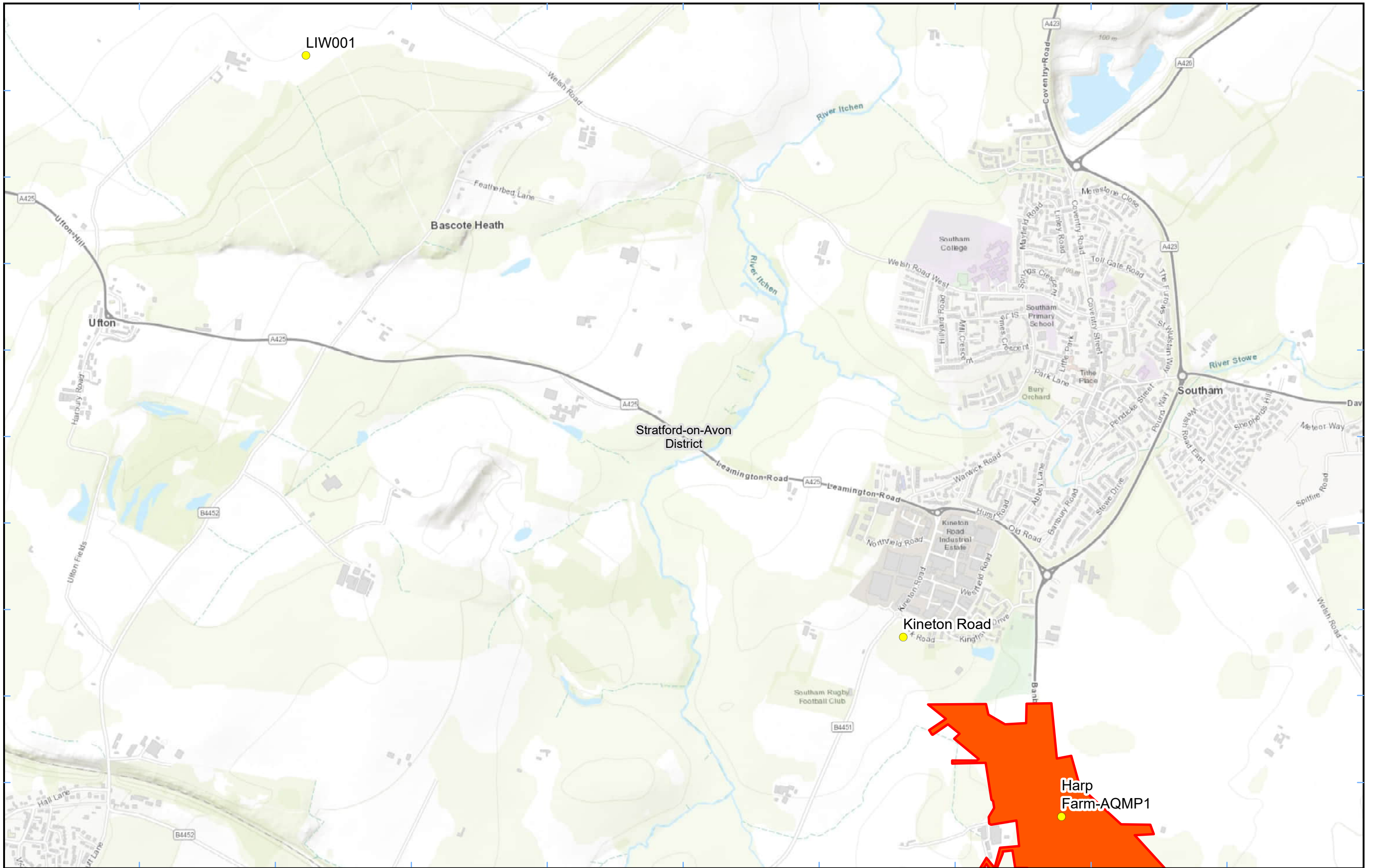
uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

- 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 (January 2024).
- 1.1.9 Data capture was below 90% for multiple monitors due to the Kineton Road monitor having a power fault. LIW001 monitor had the solar panels that charge the batteries stolen on 29th December 2023 and this theft was not discovered until 12th January 2024 due to site safety and access issues over the Christmas break. The remaining equipment (frames and poles) was collected on 30th January 2024.
- 1.1.10 There were no (0) complaints received during the reporting period (January 2024).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within SoADC





Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries
 ■ Worksite

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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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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 PM10 concentration (µg/m3)	Minimum 1-hour PM10 concentration (µg/m3)	Maximum 1-hour PM10 concentration (µg/m3)	Number of 1-hour periods exceeding trigger level of 190 µg/m3	Data capture (%)
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	No	No	-	-	-	-	-
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	8.8	1.0	36.0	0	85.6
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	No	Yes	-	-	-	-	-

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

