

Air Quality and Dust Monitoring Monthly Report – June 2024

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 Stratford-on-Avon District (SoADC) during June 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:

Southam worksite

- Installation of drainage and culverts
- Pond maintenance
- Topsoil stripping and material movement
- Further establishment of the site access road
- Bulk earthworks Southam Cutting, Windmill Hill & Ladbroke Cutting
- Southam Embankment bulk earthworks
- Embankment fill
- Earthworks for piling platform works at Ladbroke Grove Farm AOB.
- Earthworks for piling platform works at Lower Radbourne Farm AOB.
- Pouring of pilecap at Lower Radbourne Farm AOB
- Earthworks for piling platform works at Lower and Upper Radbourne viaducts
- Southam Culvert excavations

Hall Farm

- Bulk earthworks
- Structures
- Utilities
- Installation of drainage and culverts
- Pond maintenance and water management
- Topsoil stripping and material movement
- Further establishment of the site access road and haul road
- Embankment fill

- Kineton Road & Radbourne Formworks
- Oxford Canal Viaduct – south side piling
- River Itchen piling platform

Kineton Road

- Bulk earthworks
- Structures
- Utilities
- Installation of drainage and culverts
- Pond maintenance and water management
- Topsoil stripping and material movement
- Further establishment of the site access road and haul road
- Embankment fill
- Kineton Road & Radbourne Formworks
- Oxford Canal Viaduct – south side piling
- River Itchen piling platform

1.1.5 Two (2) 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 (June 2024).

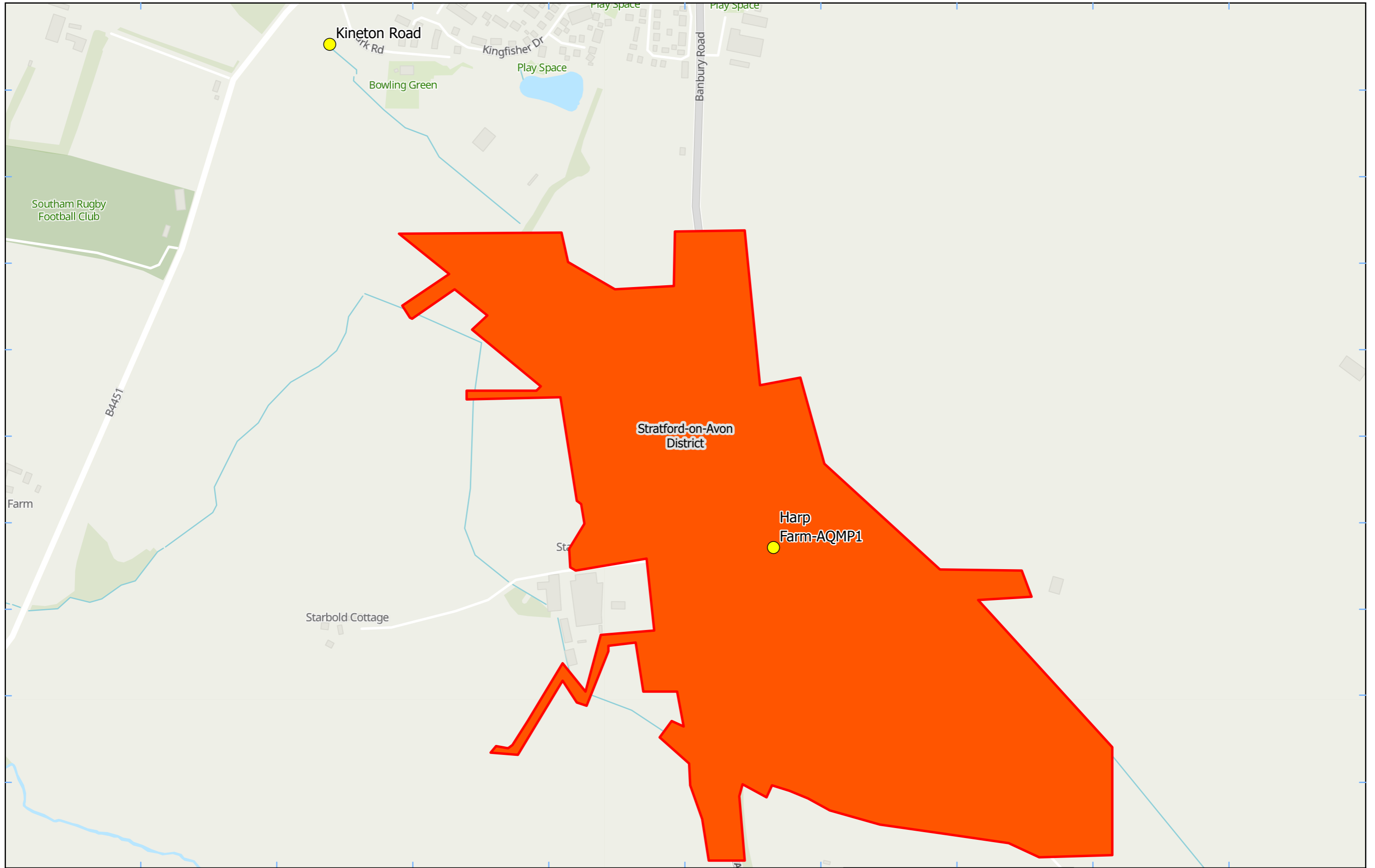
1.1.9 Data capture was below 90% for the Kineton Road monitor due to the monitor being offline from 26th June due to connectivity issues. The supplier tried to remotely troubleshoot but to no avail. The monitor has been retrieved on 2nd July for thorough inspection and a replacement unit has been installed on 2nd July.




1.1.10 There were no (0) complaints received during the reporting period (June 2024).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within SoADC







Legend
 Dust Monitor  District Borough Unitary Boundaries
 Worksite

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023
 Contains data from OS Zoomstack

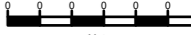
| |
|---|
| Map Number |
| Map Name |
| Worksite and Monitoring Locations In SoADC (Sheet 1) |
| Stratford-on-Avon District Council |

Doc Number:


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Scale at A3: 1:5,000

 Metres

Date: 26/03/24

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 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 (%) |
|--------------------|-------------------|--|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| Harp Farm-AQMP1 | 441738, 260075 | Site boundary adjacent property on Harp Farm | M | Yes | Yes | 5.4 | 1.0 | 36.0 | 0 | 100.0 |
| Kineton Rd | 441092, 260808 | Adjacent to Kineton Road roundabout | M | Yes | Yes | 5.1 | 1.0 | 37.0 | 0 | 83.9 |

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

