

Air Quality and Dust Monitoring Monthly Report – October 2023

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 October 2023.
- 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)

- 2nd visit Conveyor Recycle Collection (EMR) SL2 Only.
- Concrete arising muck away - Including GUC Slab.
- Welsh Road Embankment – SL2 Earthworks.
- Tunnel Segment Repairs.
- Gantry Transport to Bromford.
- Begin to clear filter press bays ready for PJD works.

Southam worksite

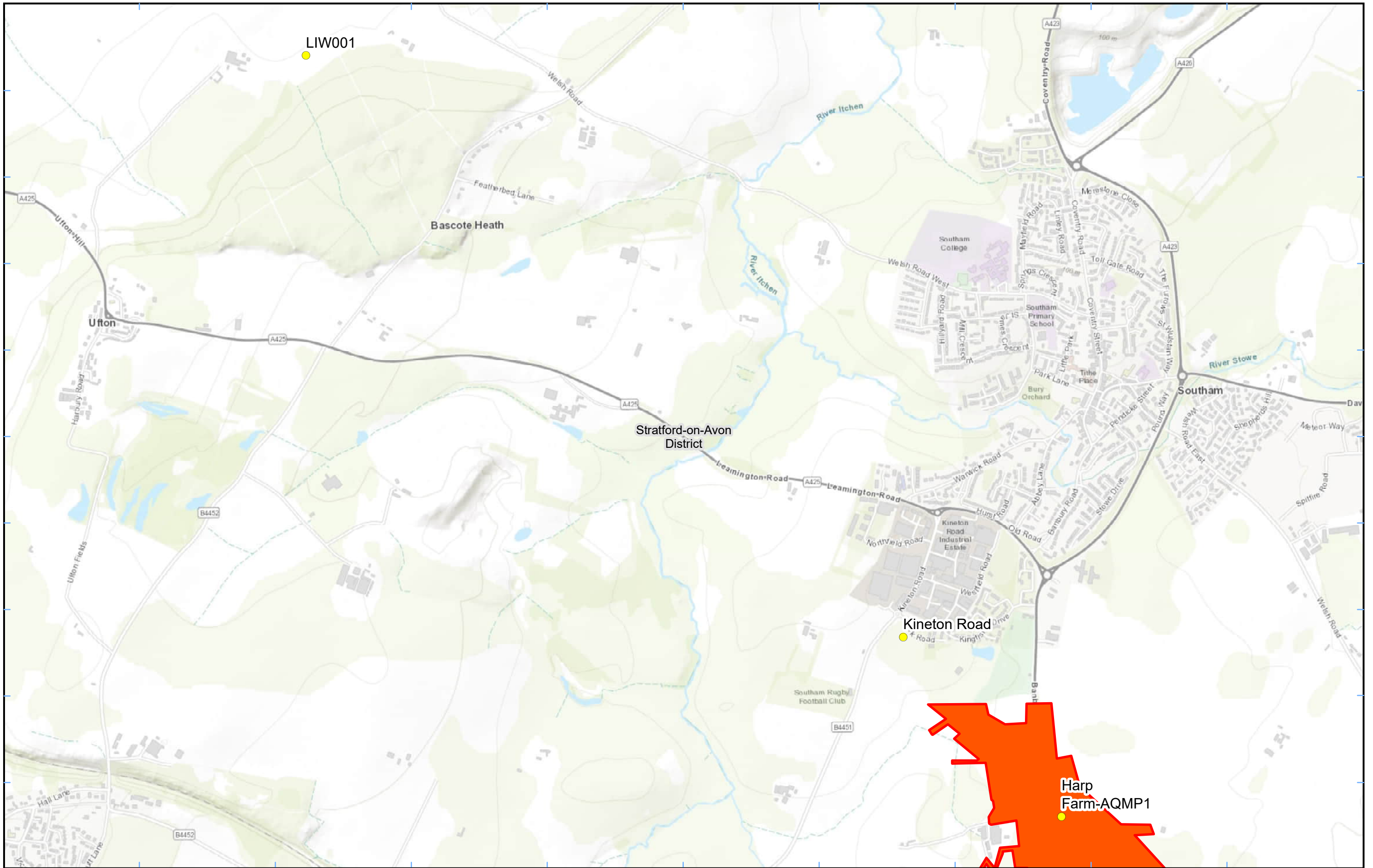
- Installation of drainage and culverts
- Pond maintenance
- Topsoil stripping and material movement
- Deconstruction of inadequate sections of Site Access Road (SAR)
- Bulk earthworks Windmill Hill & Ladbroke Cutting , Earthworks season approaching end
- FRC Formwork at structures including Banbury Road Overbridge, Kineton Road Overbridge, Ladbroke Grove Farm AOB, Lower Radbourne Farm AOB
- Earthworks for piling platform works at Windmill Hill Farm AOB.
- Earthworks and concrete pouring of pile caps at Lower Radbourne North and South Viaduct
- Piling operations at Oxford Canal viaduct.
- Southam Culverts precast and cast in situ culverts

- 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 (October 2023).
- 1.1.9 Data capture was below 90% for the Kineton Road monitor due to the monitor being retrieved from site for calibration. Intermittent data was collected prior to this due to the connections of the monitor being rusted, these have been cleaned following calibration.
- 1.1.10 There were no (0) complaints received during the reporting period (October 2023).

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	Yes	No	6.3	0.4	25.8	0	99.9
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	6.0	1.0	33.0	0	93.5
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	5.8	1.0	31.0	0	78.9

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

