

Air Quality and Dust Monitoring Monthly Report – **October** 2020

Stratford-on-Avon District Council



Department for Transport

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High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

A report prepared by BBV JV (Balfour Beatty VINCI JV) on behalf of HS2 Ltd.

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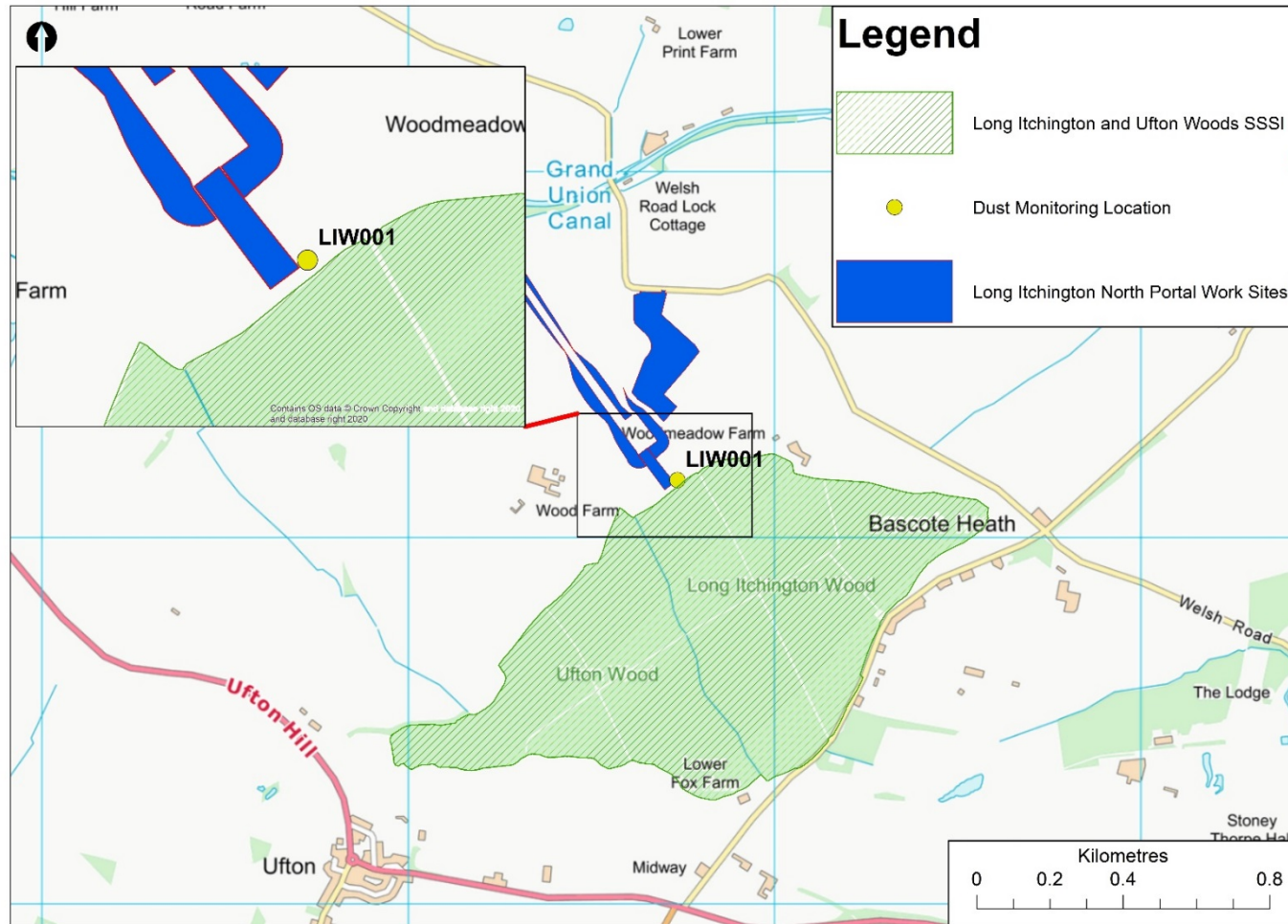
Monthly Summary

- 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 the Stratford-on-Avon District Council during October 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for October 2020.
- 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 phase of works at the Long Itchington Wood North Portal site commenced within the Stratford-on-Avon District Council and is currently ongoing. The Long Itchington Wood North Portal worksite as presented in Appendix A, Figure 1, includes ongoing tunnel boring works.
- 1.1.5 One dust monitor is installed at the Long Itchington Wood North Portal site, where tunnel boring works are underway. This site returned a medium dust risk rating for ecological impacts relating to the Long Itchington and Ufton Woods Site of Special Scientific Interest (SSSI) and a low risk for dust soiling and health effects. As such, the dust monitor has been located at the boundary of the SSSI as close to the North Portal tunnel boring works as practicable.
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the 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 mitigations.
- 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 There were no (0) dust trigger alerts recorded during the monitoring period (October 2020). All other results were in line with expected ranges.

- 1.1.9 Data capture for monitor LIW001 was below 90% for the month of October 2020. This was due to the loss of continuous site power to the monitoring location. Power was restored and monitoring resumed.
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (October 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations within Stratford-on-Avon District Council during October 2020



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and October 2020 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 (%)
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	4.1	0.1	22.5	0	83

Figure 2: Construction dust 1-hour mean mean indicative PM10 concentration for dust monitor LIW001

