

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

Cherwell 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 Cherwell District Council (CDC) during October 2022.
- 1.1.2 Figure 1 in Appendix A presents 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 phase of works commenced in October 2022. The current worksites as presented in Appendix A, Figure 1, include:

## **A4421 Overbridge worksite**

- Ditch diversion;
- Excavation of railway embankment (A4421 South);
- Moving stockpile material to Calvert;
- Vegetation clearance/deposit;
- Site access road diversion (A4421 South);
- Stockpile relocation;
- Skip relocation; and
- Trial pits.

## **A421 Overbridge worksite**

- Deliveries of 6NS for the Piling platform;
- Topsoil stockpile relocation;
- Piling platform;
- Offices foundations;
- Drainage;
- Utilities;
- Embankment formation (A421 Temporary overbridge);
- Barrier installation; and
- Pond excavated.

- 1.1.5 One (1) dust monitor is installed at the worksite, where works are underway. This site returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations 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 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 Data capture was below 90% for the A421 monitor due to a faulty solar controller which has now been repaired.
- 1.1.9 No (0) dust trigger alerts were recorded during the monitoring period (October 2022).

# Appendix A –Monitoring Locations

Figure 1: Worksite and monitoring locations within the CDC






- Legend**
- Dust Monitor
  - District Borough Unitary Boundaries

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Map Number	
Map Name	<b>Monitoring Locations In T2G, Cherwell DC (Sheet 1)</b>
	<b>Cherwell District Council</b>




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**Scale at A3: 1:4,000**



Metres

**Date: 25/10/22**

## 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 (%)
Newton Purcell - Finmere	462904, 231144	Site boundary adjacent property on A4421	M	Yes	Yes	6.7	1.0	50.0	0	95.3
A421 North	462156, 233290	A421	M	Yes	Yes	-	-	-	-	-

Figure 2: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for Newton Purcell-Finmere for October 2022

