

## Air Quality and Dust Monitoring Monthly Report – December 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 December 2022.
- 1.1.2 Figure 1 in Appendix A presents the current worksite together with the dust monitoring location for December 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 worksites, as presented in Appendix A, Figure 1, include:

## **A4421 Overbridge works**

- Haul road repair and preparation for site shutdown
- Internal drainage
- Ditch diversion for Newton Purcell Culvert
- De-veg and preparation for platform extension
- Pond excavation

## **A421 Overbridge worksite**

- Piling platform-west side
- Topsoil stripping and preparation of works
- Formation testing
- Piling platform reinforcement/formation
- Piling platform fill
- Transport 6N stockpile
- Stumps mulching
- Piling abutment A3 (11 no. piles completed)
- Construction of utilities protection slab type 2 to protect the SSE cable
- Platform build up type 1 to prep for surfacing works
- Ducting installation for M&E works
- Lampposts installation for M&E works and inspection chambers install
- Welfare cabins fit-out commenced

- 1.1.5 Two (2) dust monitors are installed at the worksite, where works are underway. These sites 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 No (0) dust trigger alerts were recorded during the monitoring period (December 2022).
- 1.1.9 Data capture was below 90% at both monitors due to lack of solar charge.
- 1.1.10 No (0) complaints were received during the reporting period.

# 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  
**Monitoring Locations  
 In T2G, Cherwell DC (Sheet 1)**  
 Cherwell District Council



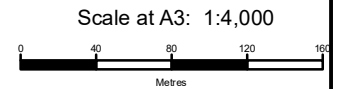
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## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and December 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	12.2	1.0	48.0	0	27.6
A421 North	462156, 233290	A421	M	Yes	Yes	11.9	1.0	44.0	0	67.9

Figure 2: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all monitors

