

## Air Quality and Dust Monitoring Monthly Report – December 2021

Cherwell 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 dust monitoring undertaken in the Cherwell District Council (CDC) area during December 2021.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with dust monitoring locations.
- 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 April 2021 and is expected to be completed by March 2022. The current worksite, as presented in Appendix A, Figure 1, includes:
- Finmere bridge installation (North and South);
  - Stone deliveries (North and South);
  - Stockpiling;
  - Removal of the existing railway embankment (South); and
  - Trial foundation backfill (South).
- 1.1.5 One (1) dust monitor is installed at the worksite, where works are underway. The 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 No (0) dust trigger alerts were recorded during the monitoring period (December 2021).
- 1.1.9 Data capture was below 90% for monitor Newton Purcell-Finmere in December 2021, due to power supply issues.

1.1.10 There were no (0) complaints received during this reporting period.

## Appendix A – Monitoring Locations

Figure 1: Worksite and monitoring locations during December 2021 – within the CDC.



## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and December 2021 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	10.4	1.0	83.0	0	23.9

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

