

Air Quality and Dust Monitoring Monthly Report – **May** 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

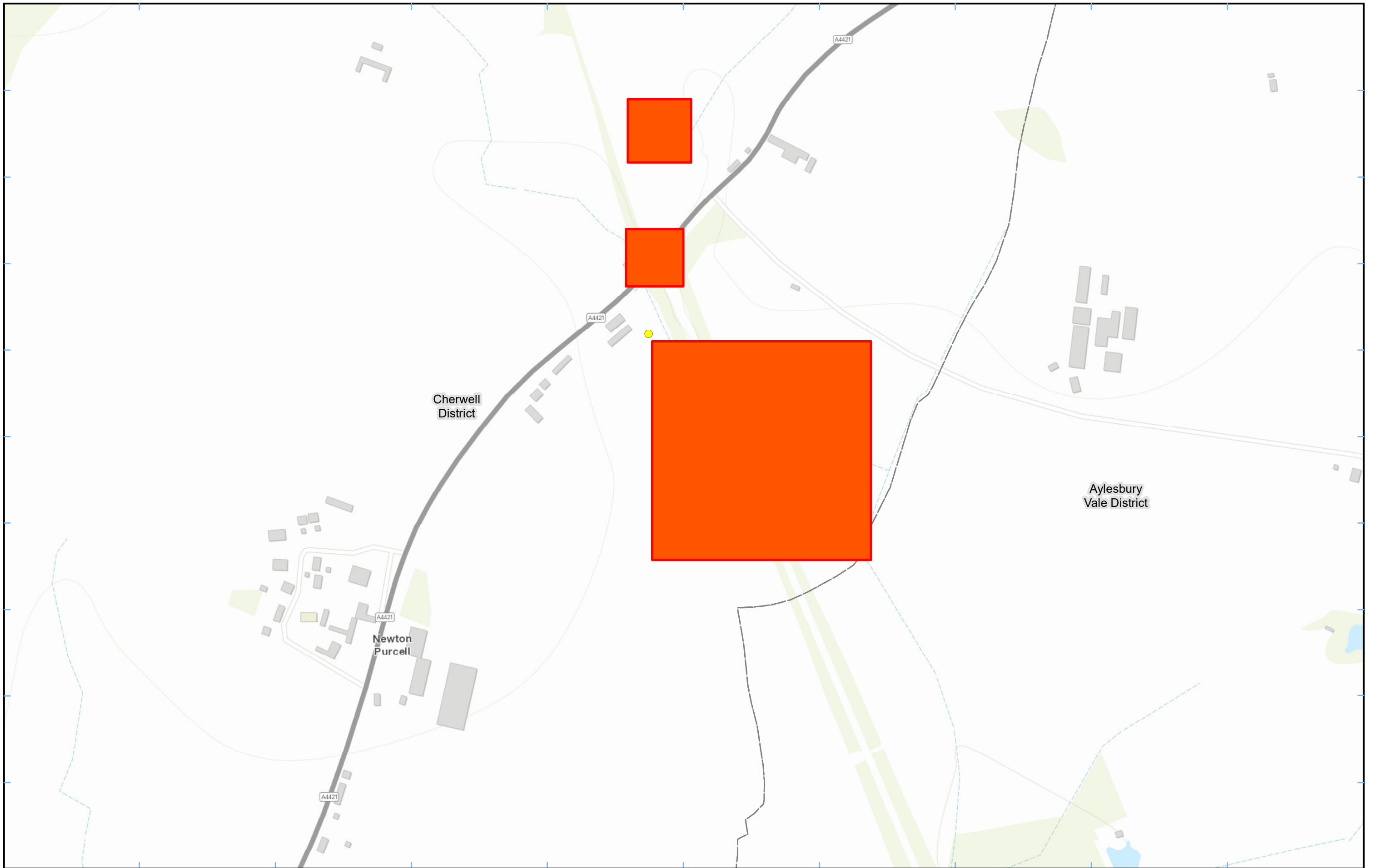
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken in the Cherwell District Council (CDC) area during May 2021.
- 1.1.2 Figures 1 in Appendix A presents the current worksites together with the dust monitoring location for May 2021.
- 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, 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 A4421 Overbridge worksite falls within the administrative boundary of CDC. Figure 1 in Appendix A presents the current worksite together with the dust monitoring location for May 2021.
- 1.1.5 The current phase of works at the A4421 worksite, within the administrative boundary of CDC, commenced in April 2021. The current A4421 Overbridge worksite, as presented in Appendix A, Figure 1, included the following activities:
- Compound: including the replacement of broken fence panels at site entrance, the upgrade of the access road to two-way system, RB2000 barriers installed, plate bearing tests on link road, culvert installed, ramp upgrade and additional DCP tests on link road, finish stone placement on Ramp;
 - Structure: including the embankment widening, stone placement on pile mat and filter drain installed on pile mat; and
 - Earthworks: including excavating a pond on the east side of the old rail embankment, backfilling the trail pit with limestone aggregates, stabilising limestone aggregates in trail pit with cement, compacting material in pit and the construction of an access road on east side of old rail embankment.
- 1.1.6 One (1) dust monitor is installed at the worksite, where preparation for concrete using hand tools and a small excavator, and concreting activities are underway. Dust Risk Assessments for each worksite returned a medium dust risk rating.
- 1.1.7 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.

- 1.1.8 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.
- 1.1.9 There were no (0) dust trigger alerts recorded during the monitoring period (May 2021).
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (May 2021).

Appendix A –Monitoring Locations


Figure 1: Worksite and Monitoring locations during May 2021 – TG2-AQMP1



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries
 ■ Worksite


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Map Number
 Worksite and 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 May 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 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 (%)
TG2-AQMP1	462904, 231144	Site boundary adjacent property on A4421	M	Yes	Yes	6.3	0.7	160.6	0	98

Figure 2: Continuous dust 1-hour mean indicative PM₁₀ concentration for T2G-AQMP1 for May 2021

