

Air Quality and Dust Monitoring Monthly Report – January 2020

Oxfordshire County Council



Department for Transport

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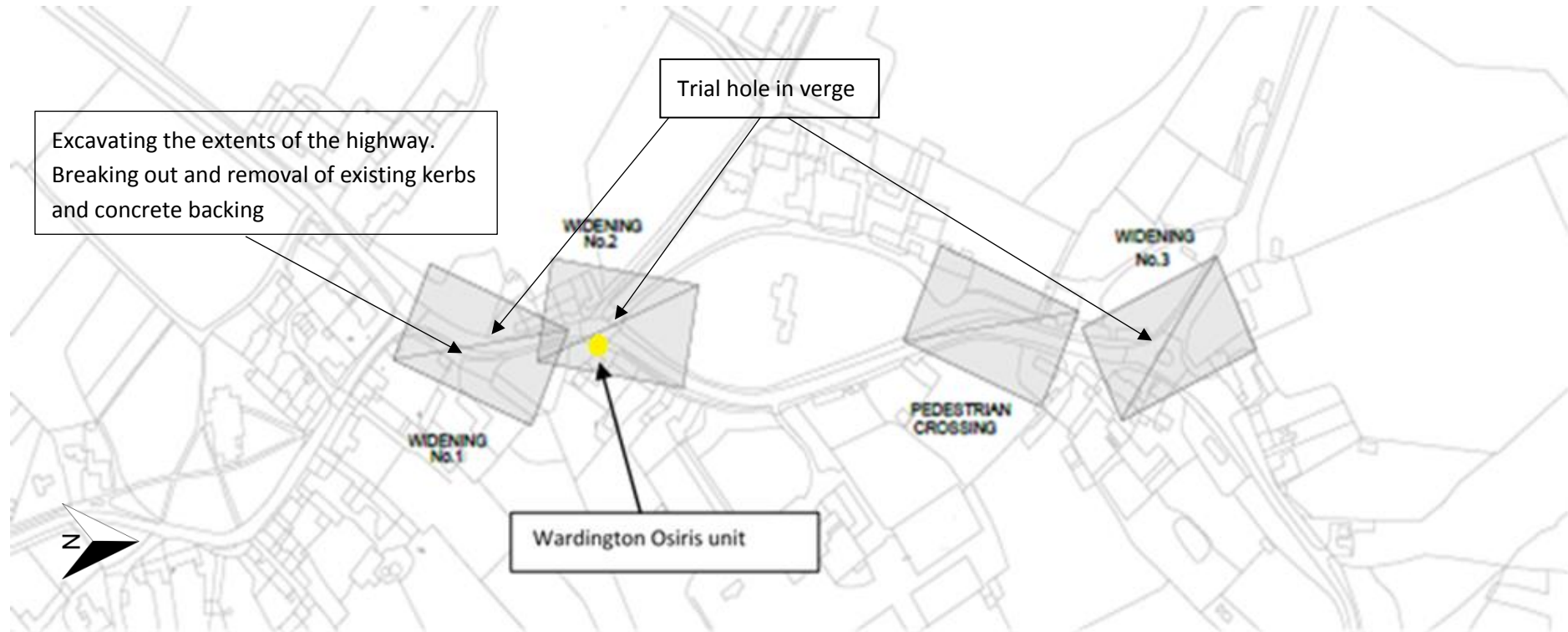
Monthly Summary

- 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 Oxfordshire County Council (OCC) during January 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for January 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 out 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 during November 2019 and are expected to be completed by July 2020. No dust-related activities, and consequently no dust monitoring, were undertaken between the 1st January 2020 - 5th January 2020. Therefore, this Summary Report covers the period 6th January 2020 – 31st January 2020. The current works form part of Wardington road-widening item of the DC3A Work Package and, as presented in Appendix A, Figure 1, include:
- Site surveys;
 - Trial hole in verge (at widenings 1, 2 and 3); and
 - Excavating the extents of the highway at widening 1 (via hand dig). As well as the breaking out and removal of existing kerbs and concrete backing.
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These sites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from this 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 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 was one (1) dust trigger alert recorded during the monitoring period (January 2020). Exceedances are presented in Appendix B, Table 2. All other results were in line with expected ranges.
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during this monitoring period (January 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations during January 2020 within Oxfordshire County Council



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results (6th January – 31st January 2020)

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 (%)
AQ002	449064, 246552	Secured to a lamppost opposite the entrance to Wardington House (outside of house number 3 on the A361)	M	Yes	Yes	11.2	1.0	357	1	96

Table 2: Summary of exceedances of trigger level in January 2020

Period exceeding trigger level	Worksite reference	Monitoring site ID	Complaint reference number (if applicable)	Reason	Resolution
21/01/2020 00:00 – 01:00	Wardington road-widening	AQ002	n/a	On investigation there were no signs of any activity which could have caused the trigger. The alert occurred on 22/01/2020 01:00, prior to the monitor powering off due to low battery.	n/a

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor AQ002

