

Air Quality and Dust Monitoring Monthly Report – July 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 July 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for July 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 August 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 the following works in this period:
- Placing and compacting type 1 material at Wardington widening 3;
 - Placing tarmac at Wardington widening 3; and
 - Installing kerbs at Wardington widening 3.
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These worksites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results for July 2020 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 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.
- 1.1.8 Data capture for dust monitor AQ002 was below 90% for the month of July 2020. This was due to unexpected power outages. There were seven (7) occasions over the monitoring period

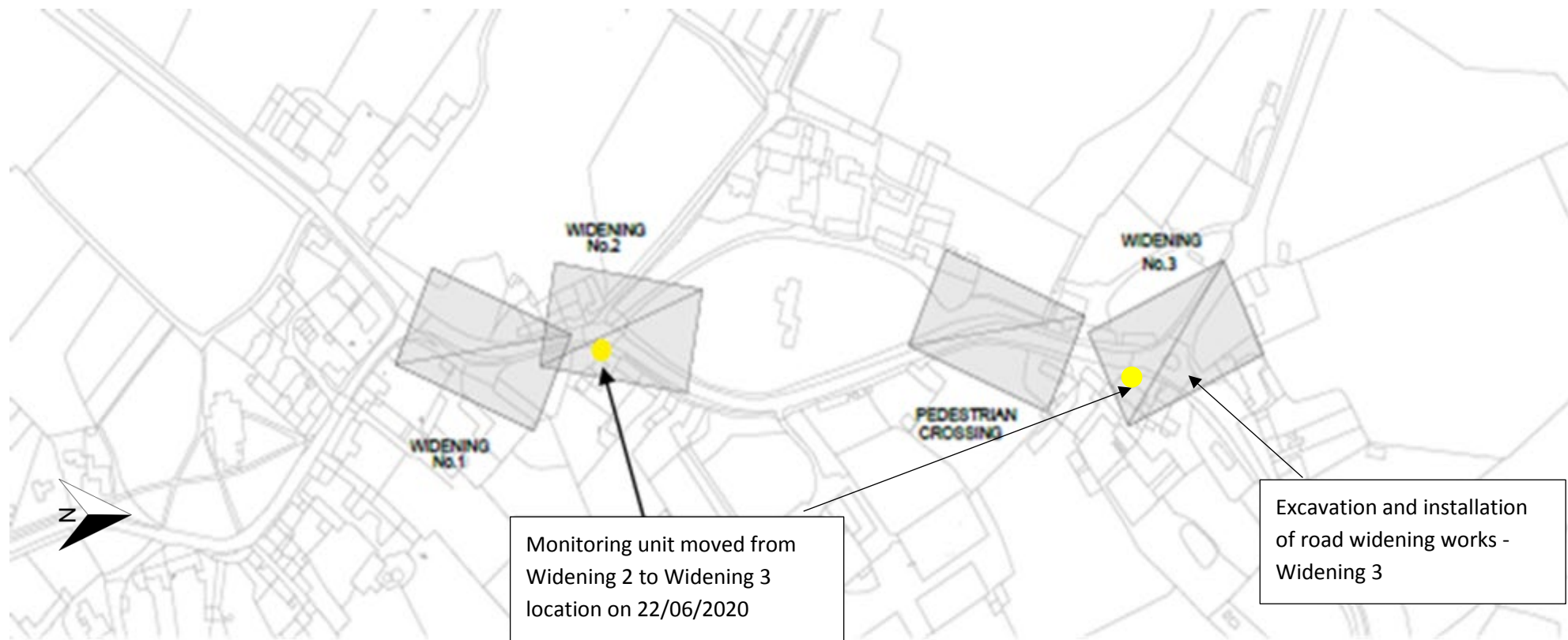
where the batteries that are used to power the Osiris monitor had run out and were unable provide the minimum required power. This has since been rectified.

1.1.9 There were no (0) dust trigger alerts recorded during this monitoring period (July 2020).

1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (July 2020).

Appendix A – Worksites and Monitoring Locations

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



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results (July 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	449087, 246831	Secured to road sign post (Adjacent to property named "The Old Butchers on the A361)	M	Yes	No	8.2	0.7	88.6	0	87.9

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

