

## **Air Quality and Dust Monitoring Monthly Report – April 2020**

**Oxfordshire County 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 Fusion on behalf of HS2 Ltd.

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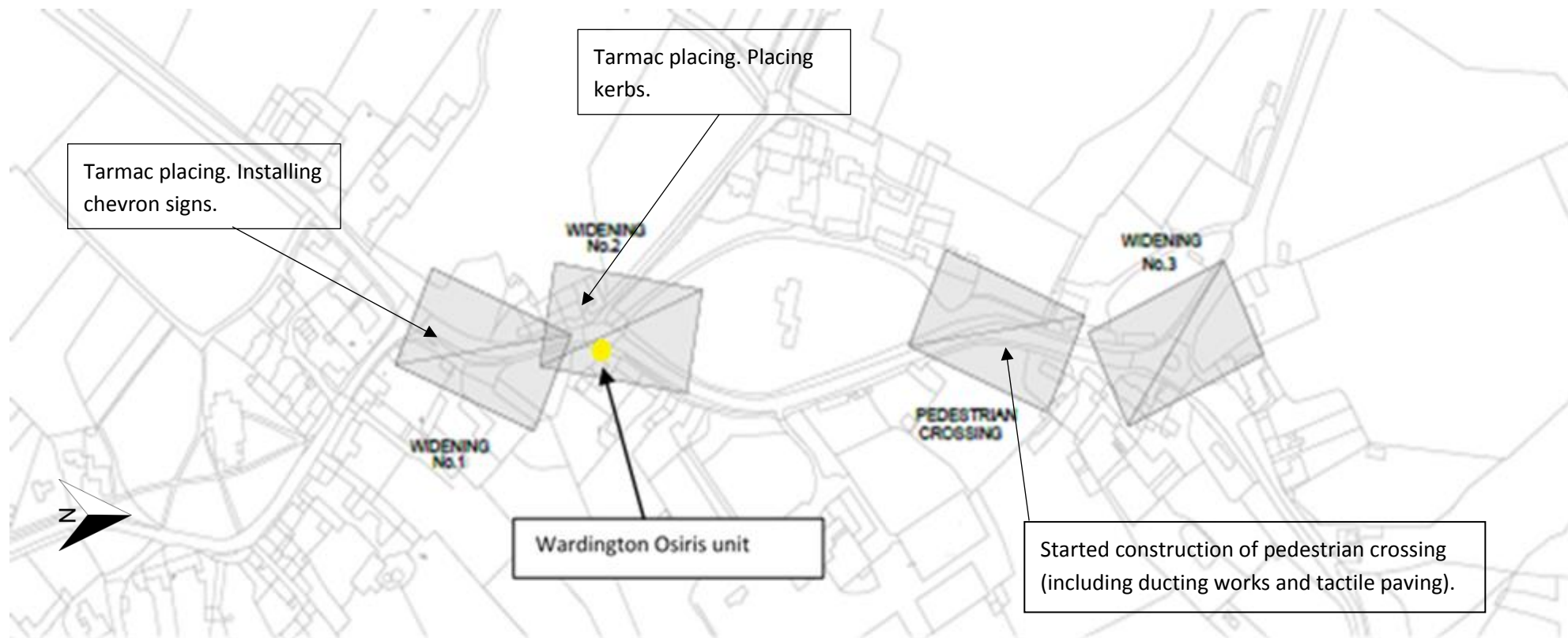
# Monthly Summary

- 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 Oxfordshire County Council (OCC) during April 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for April 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](http://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. The current works form part of Wardington road-widening item of the DC3A Work Package and, as presented in Appendix A, Figure 1, include:
- Tarmac placing at Wardington widening 2;
  - Placing kerbs at Wardington widening 2;
  - Tarmac placing at Wardington widening 1;
  - Installing chevron signs at Wardington widening 1; and
  - Starting construction of new pedestrian crossing (including ducting works and tactile paving).
- 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). It was not possible to connect the monitor to the mains power supply therefore the monitor is powered using two 12V batteries, which are changed three times a week by a member of the Fusion site team.
- 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 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 There were no (0) dust trigger alerts recorded during this monitoring period (April 2020).
- 1.1.9 Data capture for dust monitor AQ002 was below 90% for the month of April 2020. This was due to improper battery changeover causing equipment failure. As a result, there were five (5) occasions where the batteries that are used to power the Osiris monitor had run out and were unable provide the minimum required power. The battery was changed after each outage and the monitoring was resumed.
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this monitoring period (April 2020).

# Appendix A – Worksites and Monitoring Locations

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



## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results (1<sup>st</sup> April – 30<sup>th</sup> April 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 <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>	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	No	18.8	1.7	106.9	0	86.5

Figure 2: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitor AQ002

