

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

**South Northamptonshire District 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

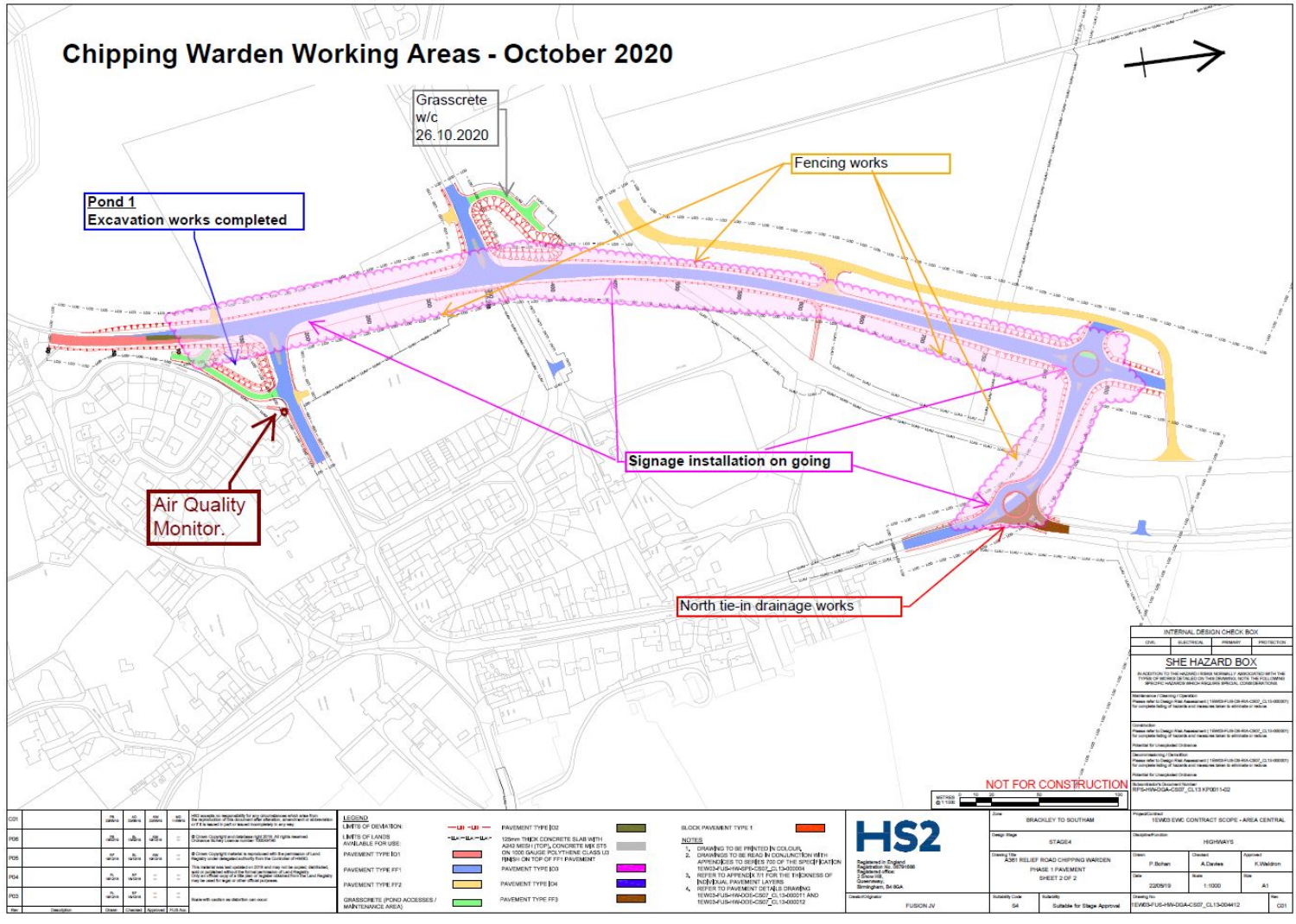
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken in South Northamptonshire District Council (SNDC) during October 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current work sites together with the dust monitoring location in October 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: 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 within SNDC during October 2019 and is expected to be completed by December 2020. The current works form part of Chipping Warden road-widening item of the DC3A Work Package and, as presented in Appendix A, Figure 1, include:
- Ground preparation and seeding;
  - Fencing;
  - Pond 1: Excavation works completed;
  - Drainage ditch re-profile;
  - Main line: Topsoil dressing and headwalls;
  - Water connection pipework;
  - North tie drainage works;
  - Signage Installation; and
  - Grasscrete.
- 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). The dust monitoring location is described in Appendix B. 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 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 instruments categorised as indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors have a wider measurement 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 verify 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 the monitoring period (September 2020). All results were in line with expected ranges.
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during this reporting period (October 2020).

# Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations during October 2020 within South Northamptonshire District Council



# Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results (1<sup>st</sup> October 2020 – 31<sup>st</sup> October 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 (%)
AQ001	449728, 248774	Secured to a lamppost by a footpath connecting Banbury Road to Allens Orchard	M	Yes	No	7.8	0.6	46.4	0	94.6

Figure 2: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitor AQ001

