

## Air Quality and Dust Monitoring Monthly Report – December 2021

North Warwickshire Borough 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 EWCs and MWCCs on behalf of HS2 Ltd.

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# Monthly Summary

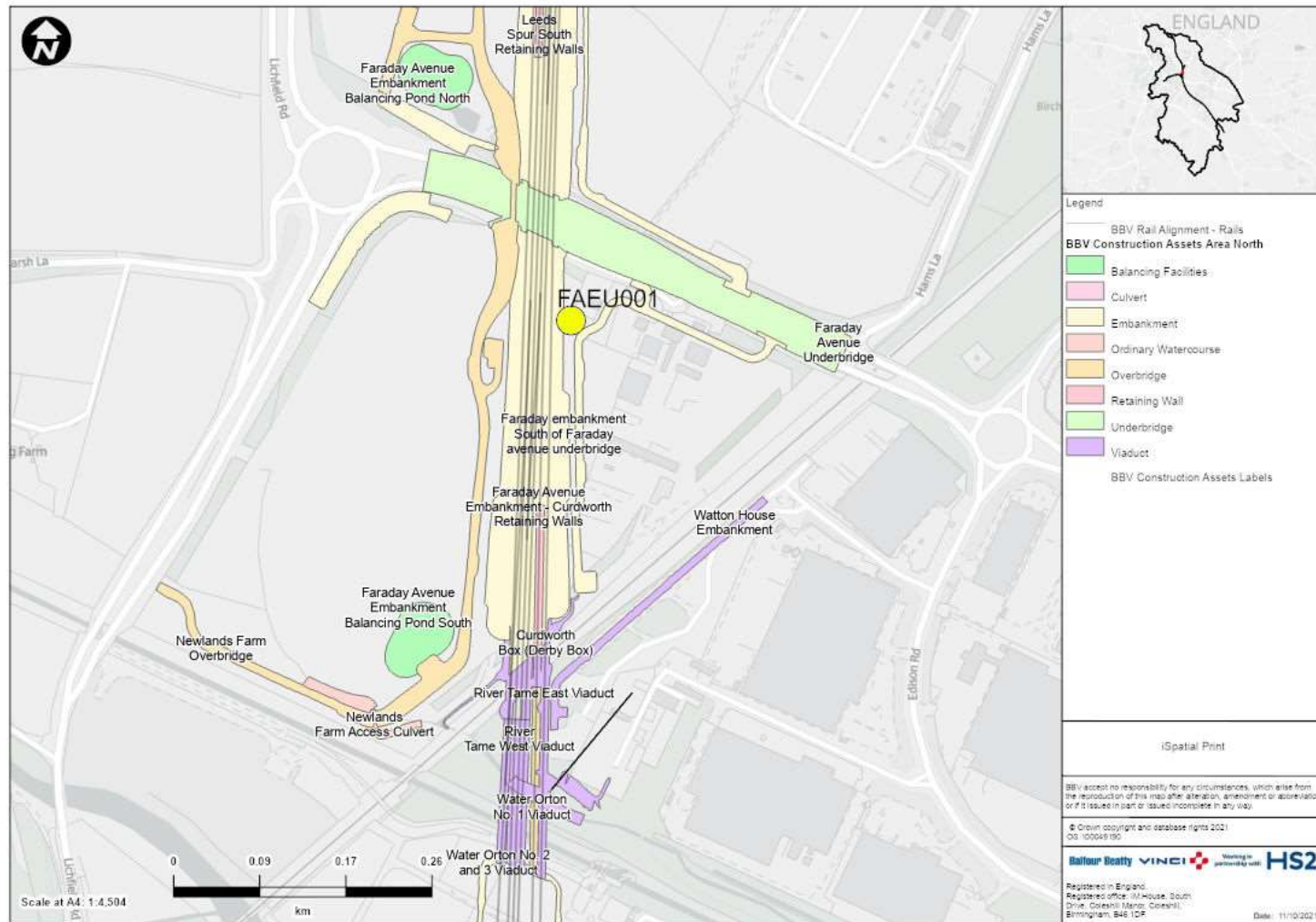
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in North Warwickshire Borough Council (NWBC) during December 2021.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for December 2021.
- 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 in September 2021. The current worksites, as presented in Appendix A, Figure 1, includes topsoil stripping.
- 1.1.5 One (1) dust monitor is installed at the worksite, where works are underway. The site returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor, 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 mitigations.
- 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 No (0) dust trigger alerts were recorded during the monitoring period (December 2021).
- 1.1.9 Data capture was below 90% for monitor FAEU001 in December 2021 due to power supply issues.
- 1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period (December 2021), together with the findings of any related investigations.

Table 1: Summary of complaints received during December 2021

<b>Complaint Reference No.</b>	<b>Worksite Reference</b>	<b>Description of complaint</b>	<b>Results of investigation</b>
HS2-21-43003-C	N/A	Dust pollution from white powder being allowed to escape into atmosphere from site.	Dust monitors installed onto the site in December to allow close monitoring. Water cannons added to area to dampen air/dust. It was also explained to the stakeholder that wind speeds and direction are monitored by those on site and methodologies change if these cause issue with dust.

# Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and monitoring locations within the NWBC.



## Appendix B – Dust Monitoring Results

Table 2: Dust monitoring location and December 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 <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 (%)
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	4.6	0.3	23.5	0	35.2

