

Air Quality and Dust Monitoring Monthly Report – January 2019

North Warwickshire Borough Council



Department for Transport

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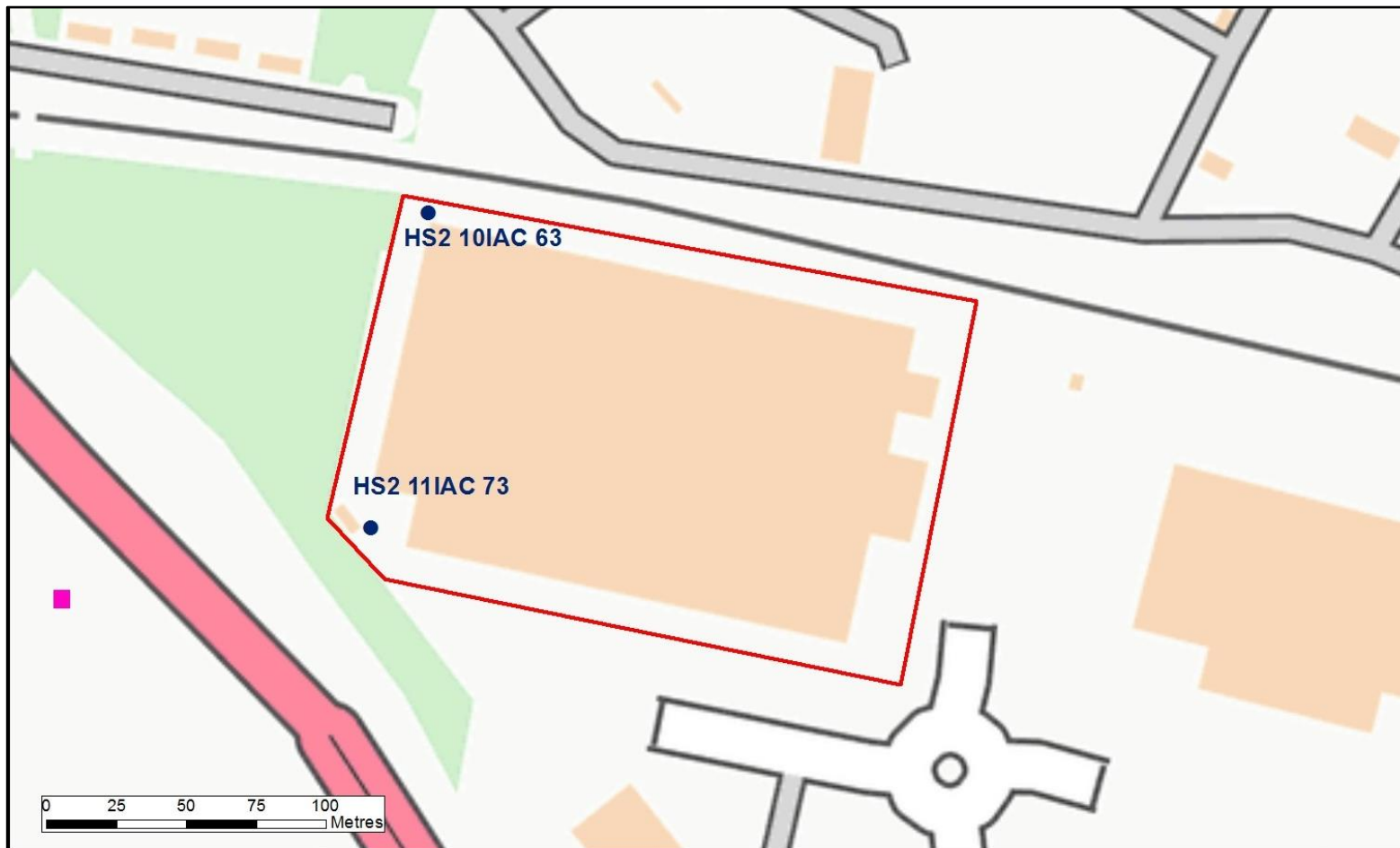
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Monthly Summary

- 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 within North Warwickshire Borough Council (NWBC) during January 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with dust monitoring locations for January 2019.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report available from 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 NWBC during January 2019 at the IAC building Site, and will continue to run into the Spring/Summer.
- 1.1.5 The current monitoring locations at the IAC building worksite, as presented in Appendix A, Figure 1, include demolition of the existing buildings. The building to be demolished is constructed of metal cladding on a steel frame. Crushing of the demolished material will not take place at this site, however there will be excavation to the underside of the slab, which has the potential to be dusty.
- 1.1.6 Two (2) dust monitors (DM11s) were installed for the current phase of work. The demolition and pre-demolition works are underway at this site. The site was previously classified with a Medium to Low dust risk rating.
- 1.1.7 Dust monitoring locations and results for January 2019 are presented in Appendix B, Table 1, together with line charts for January from each dust monitor.
- 1.1.8 The trigger levels within this January report are in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (IAQM, October 2018)*'. Therefore, a trigger level of 190 $\mu\text{g}/\text{m}^3$, measured as a 1-hour mean has been applied. No exceedances of the dust trigger level were recorded during the monitoring period.
- 1.1.9 During January, the data capture was below 90% for monitors 63 and 73. The monitors were installed on 24th January and they started recording PM₁₀ concentrations from 28th January onwards, with some periods of missing data.
- 1.1.10 There were no complaints received, relating to dust or air quality, during this monitoring period.

Appendix A – Worksite and Dust Monitoring Locations

Figure 1: IAC Building Dust Monitoring Locations January 2019 in NWBC.



<p>Figure Name:</p>	<p>Legends/Notes:</p> <ul style="list-style-type: none"> ■ IAC Building Site Boundary ● Construction Dust Monitoring Locations 	<p>HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.</p>	
<p>IAC Building Dust Monitoring Locations January 2019 in NWBC</p>			

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and January 2019 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 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 rate (%)
HS2 10 IAC 63	419096,291171	Monitor secured on a stand	Medium to Low	Yes	N/A	21.5	4.0	52.1	None	79.3
HS2 11 IAC 73	419075,291052	Monitor secured on a stand	Medium to Low	Yes	N/A	19.0	10.2	35.0	None	79.0

Figure 1: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 10 IAC 63 (January 2019)

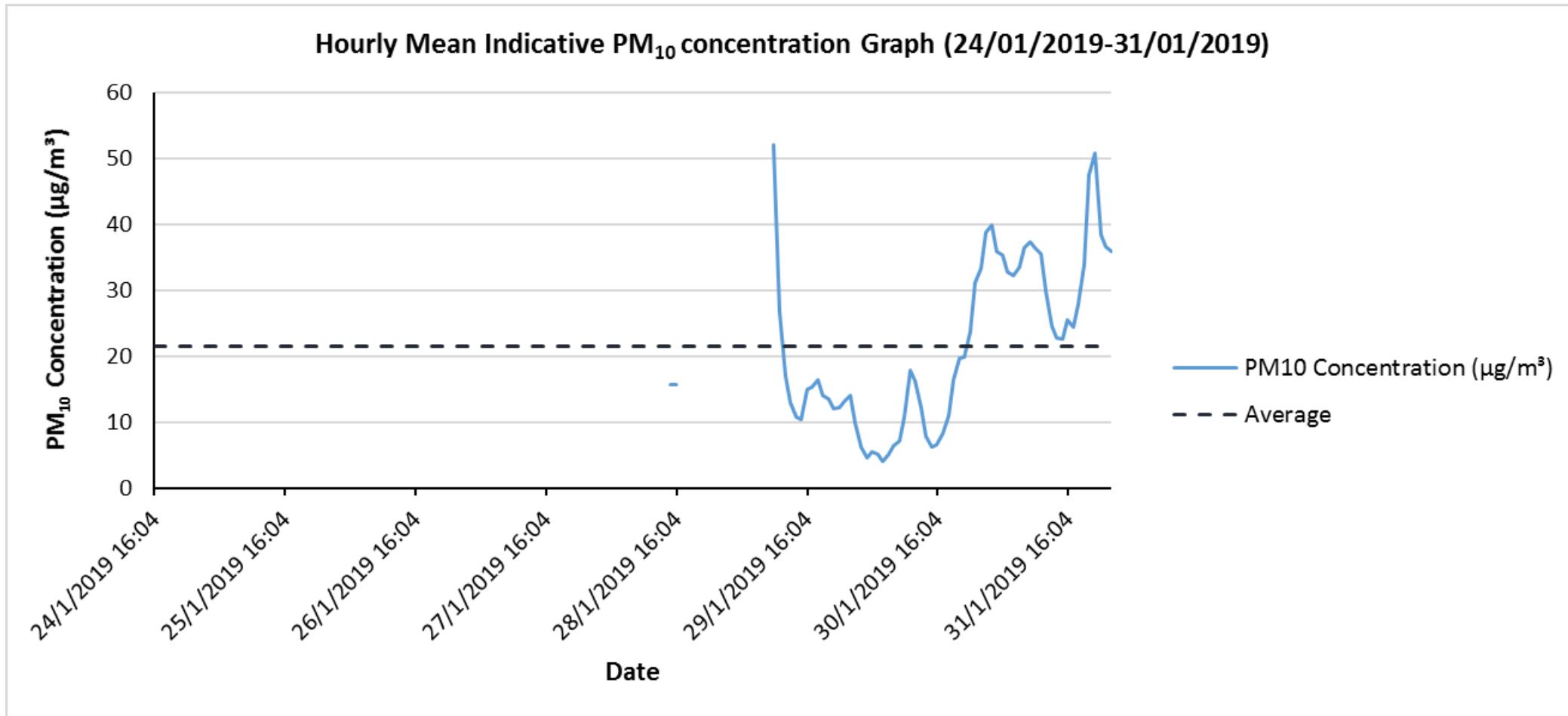


Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 11 IAC 73 (January 2019)

