

## **Air Quality and Dust Monitoring Monthly Report – March 2019**

**North Warwickshire Borough Council**



## Department for Transport

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A report prepared by LM on behalf of HS2 Ltd.

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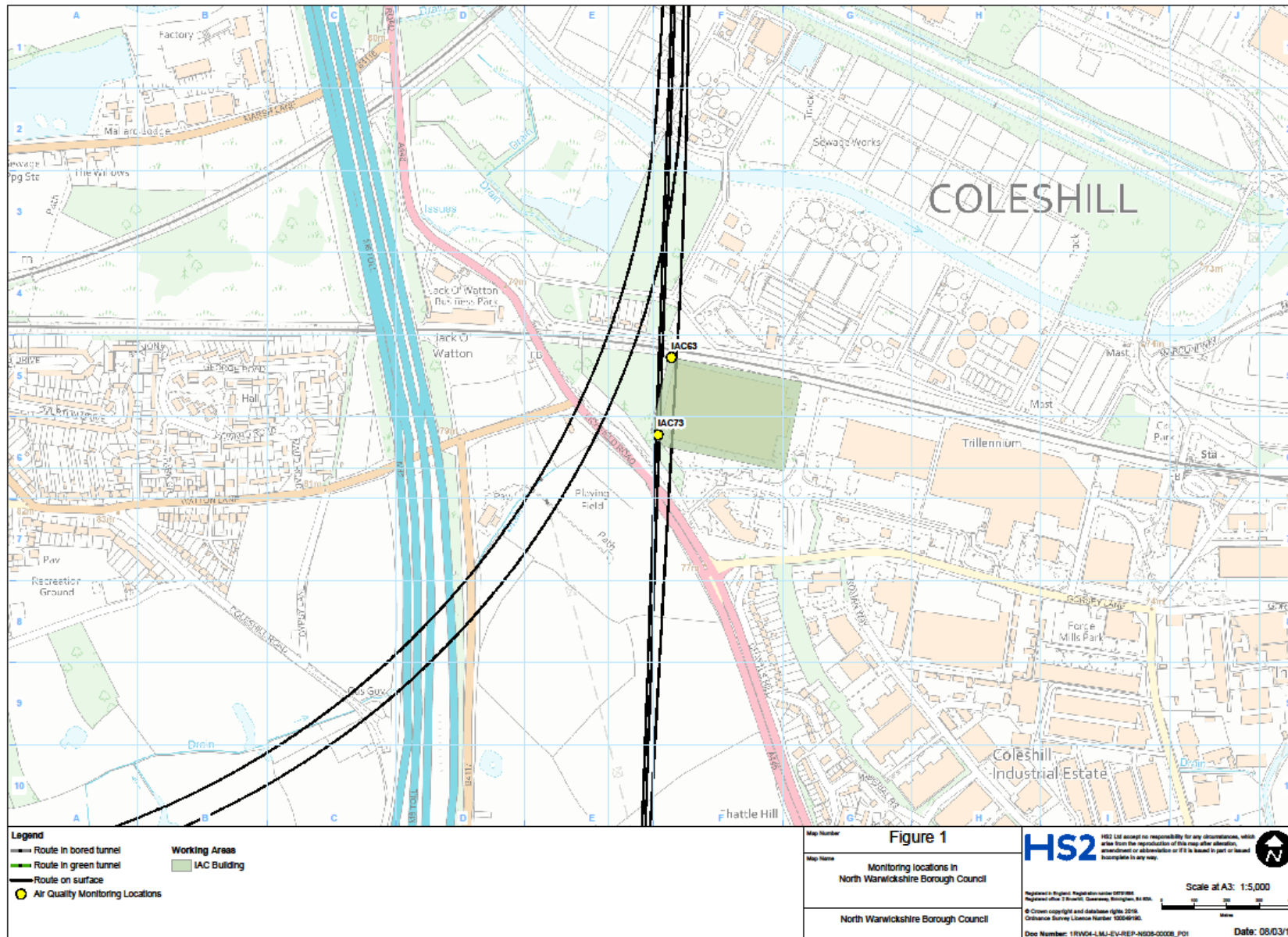
# Monthly Summary

- 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 within North Warwickshire Borough Council (NWBC) during March 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current work site together with dust monitoring locations for March 2019.
- 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 NWBC during January 2019 at the IAC building Site, and will continue to run into the Spring/Summer 2019.
- 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 March 2019 are presented in Appendix B Table 1, together with line charts for March from each dust monitor.
- 1.1.8 The trigger level of 190  $\mu\text{g}/\text{m}^3$  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. No triggers were recorded during the monitoring period.
- 1.1.9 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 Worksite and Monitoring locations during March 2019





## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and March 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 <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 rate (%)
HS2 10 IAC 63	419096,291171	Monitor secured on a stand	Medium to Low	Yes	N/A	22.5	9.9	92.0	None	99.9
HS2 11 IAC 73	419075,291052	Monitor secured on a stand	Medium to Low	Yes	N/A	18.0	9.4	57.3	None	99.9

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

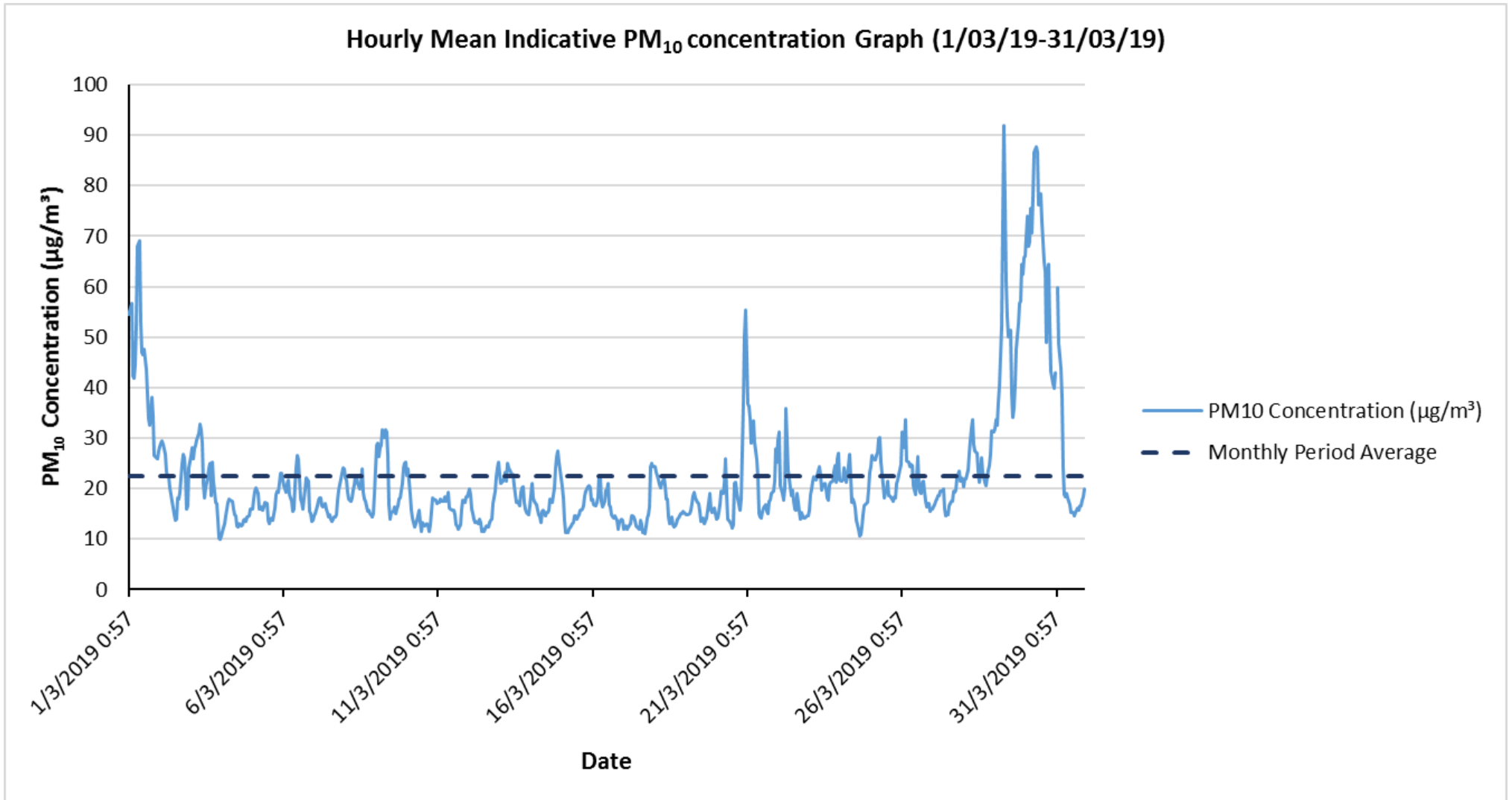


Figure 2: Construction dust hourly mean indicative PM10 concentration for WSP HS2 11 IAC 73 (March 2019)

