

Air Quality and Dust Monitoring Monthly Report – February 2020

Chiltern District Council



Department for Transport

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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 the Chiltern District Council (CDC) during February 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with the dust monitoring locations for February 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, 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 that commenced within CDC during February 2020 is expected to be completed by May 2021. The current worksite at the Chalfont St. Peter Compound is presented in Appendix A, Figure 1. Activities undertaken in February included:
- Topsoil and subsoil stripping;
 - Removal of bulk material and deliveries of Type 1 material;
 - Formation of the area required for site offices, parking and roads;
 - Installation of site offices, permanent perimeter fencing and drainage; and
 - Vegetation clearance.
- 1.1.5 Two (2) dust monitors are installed around the worksite, where earthworks, construction and trackout activities are underway. These sites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with a line chart of monthly data from each dust monitor presented in Figures 2 and 3. 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 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.

- 1.1.8 There were no (0) dust trigger alerts recorded during the February 2020 monitoring period. All results were in line with expected ranges.
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during the monitoring period (February 2020).

Appendix A –Monitoring Locations

Figure 1: Worksites and Monitoring locations during February 2020



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and February 2020 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 (%)
CHSP-AQMP1-CDC	500114, 193104	On the eastern boundary of the site with Chesham Lane	M	Yes	Yes	10.2	0.3	62.6	0	100
CHSP-AQMP2-CDC	499981, 193224	On the eastern boundary of the site	M	Yes	Yes	11.5	0.3	71.8	0	100

Figure 2: Continuous dust 1-hour mean indicative PM₁₀ concentration for AQMP1 for February 2020

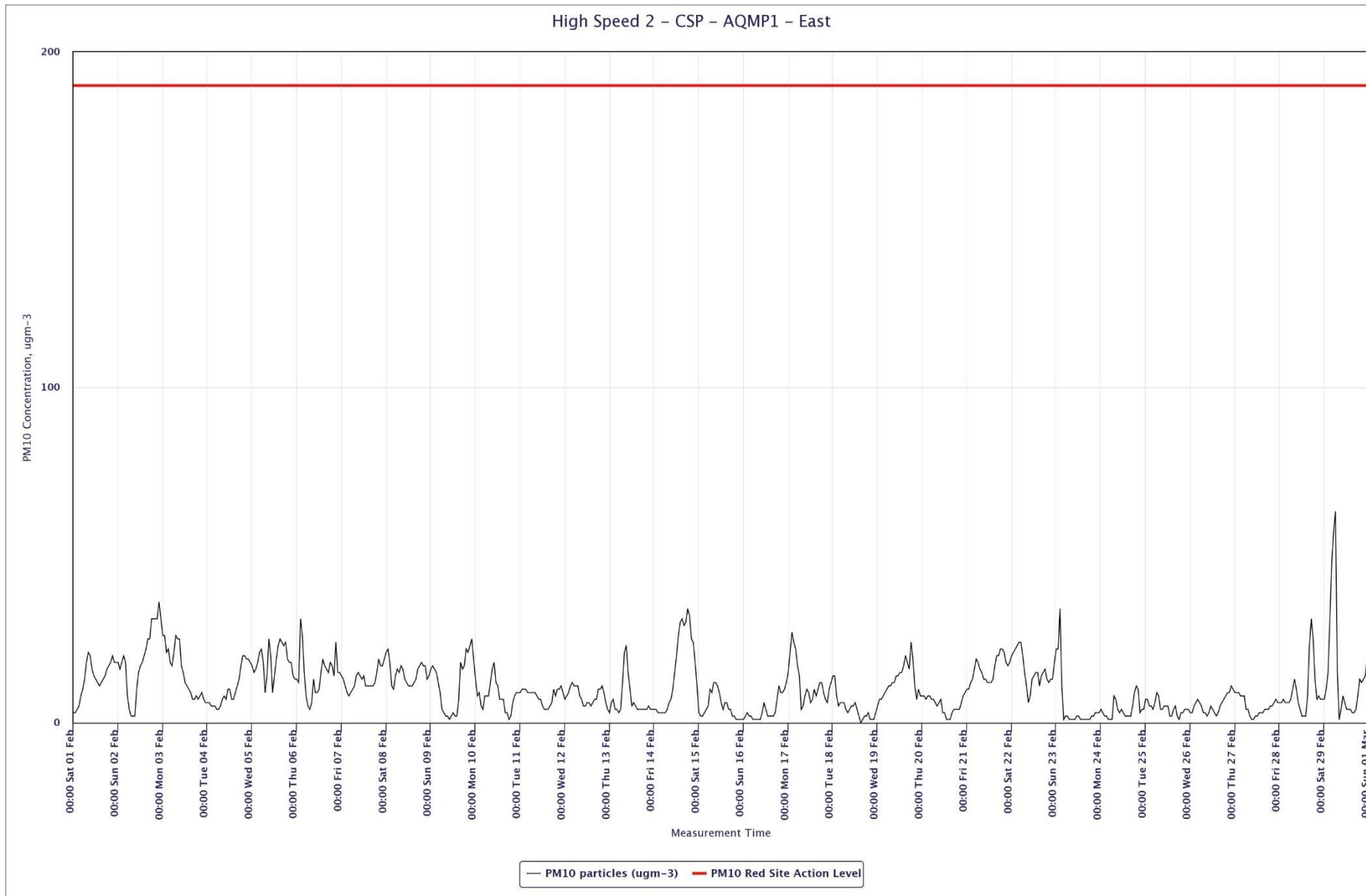


Figure 3: Continuous dust 1-hour mean indicative PM₁₀ concentration for AQMP2 for February 2020

