

Air Quality and Dust Monitoring Monthly Report – March 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 March 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with the dust monitoring locations for March 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 and is expected to be completed by May 2021. The current worksites at the Chalfont St. Peter Compound and Chalfont St. Giles are presented in Appendix A, Figure 1 and 2. Activities in March included:
- Works at Chalfont St. Peter Compound, including the installation of fencing; installation of site drainage, temporary pond and site office foul water/septic tank; construction of concrete walkways for site offices; topsoil and subsoil stripping; platform extension and storage platform works; and construction of car park hardstanding and surfacing of roads; and
 - Site set-up for works at the access road along Bottom House Farm Lane in Chalfont St. Giles, which will include earthworks, topsoil stripping, installation of ducting and drainage, and installation works for a temporary bridge.
- 1.1.5 Three (3) dust monitors are installed around the worksites, 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 3, 4 and 5. 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 for PM₁₀ concentrations of 190 µg/m³, 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 March 2020 monitoring period. All results were in line with expected ranges.
- 1.1.9 There were no (0) dust trigger alerts recorded at CHSP-AQMP2-CDC caused by site activities during the March 2020 monitoring period.
- 1.1.10 Data capture for 3252Dust2 was below 90% for the month of March 2020, as the monitor was installed on 24 March 2020.
- 1.1.11 There were no (0) complaints, relating to dust or air quality, received during the monitoring period (March 2020).

Appendix A –Monitoring Locations

Figure 1: Worksites and Monitoring locations near Chalfont St. Peter during March 2020



Figure 2: Worksites and Monitoring locations near Chalfont St. Giles during March 2020



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and March 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	10.1	0.3	110.8	0	97
CHSP-AQMP2-CDC	499981, 193224	On the western boundary of the site	M	Yes	Yes	7.7	0.4	58.7	0	100
3252Dust2	498390, 195434	On the boundary with Elm Tree Cottage, Bottom House Farm Lane	M	Yes	No	13.4	6.01	31.0	0	23.9

Figure 3: Continuous dust 1-hour mean indicative PM₁₀ concentration for CHSP-AQMP1-CDC for March 2020

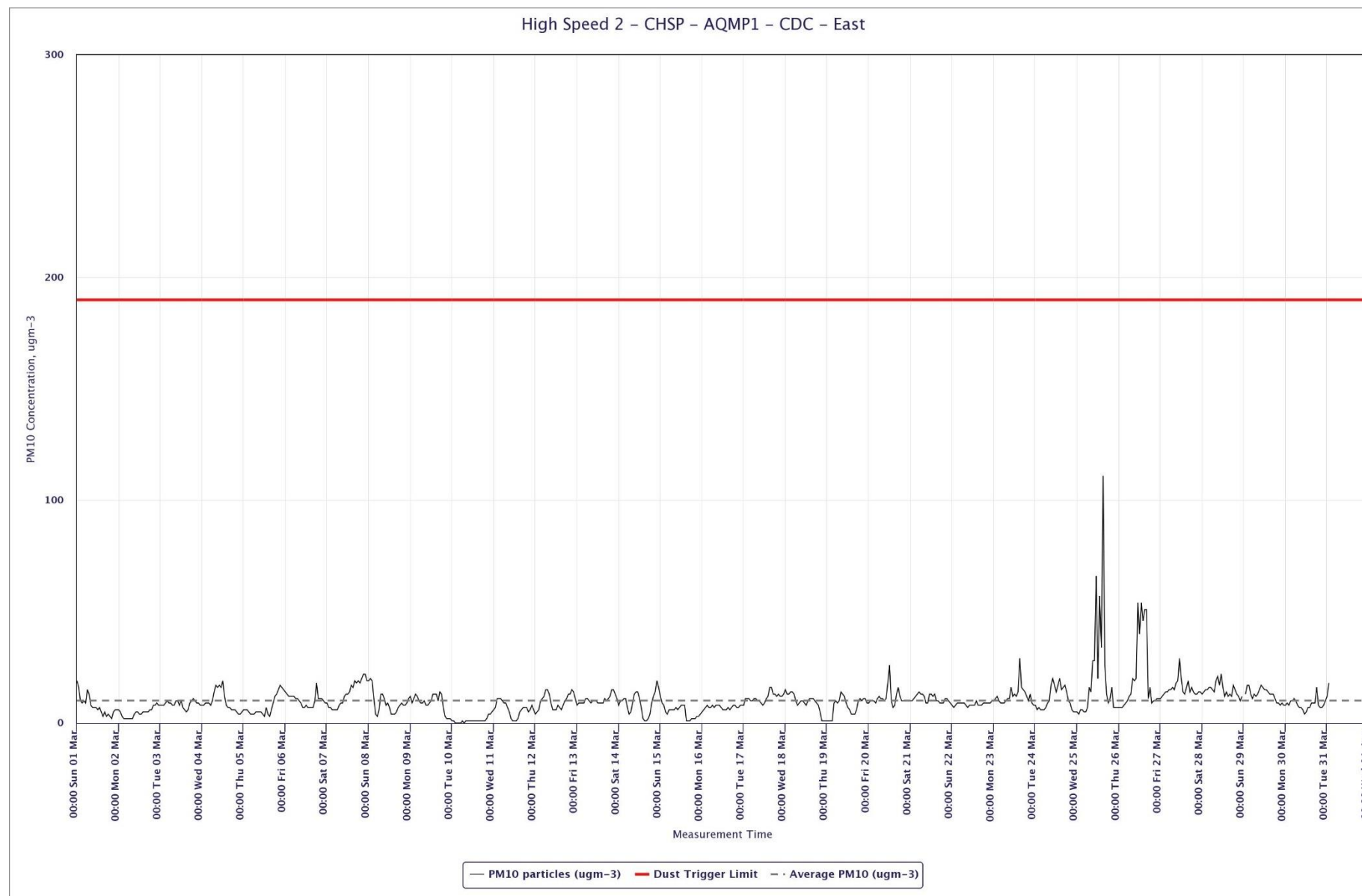


Figure 4: Continuous dust 1-hour mean indicative PM₁₀ concentration for CHSP-AQMP2-CDC for March 2020

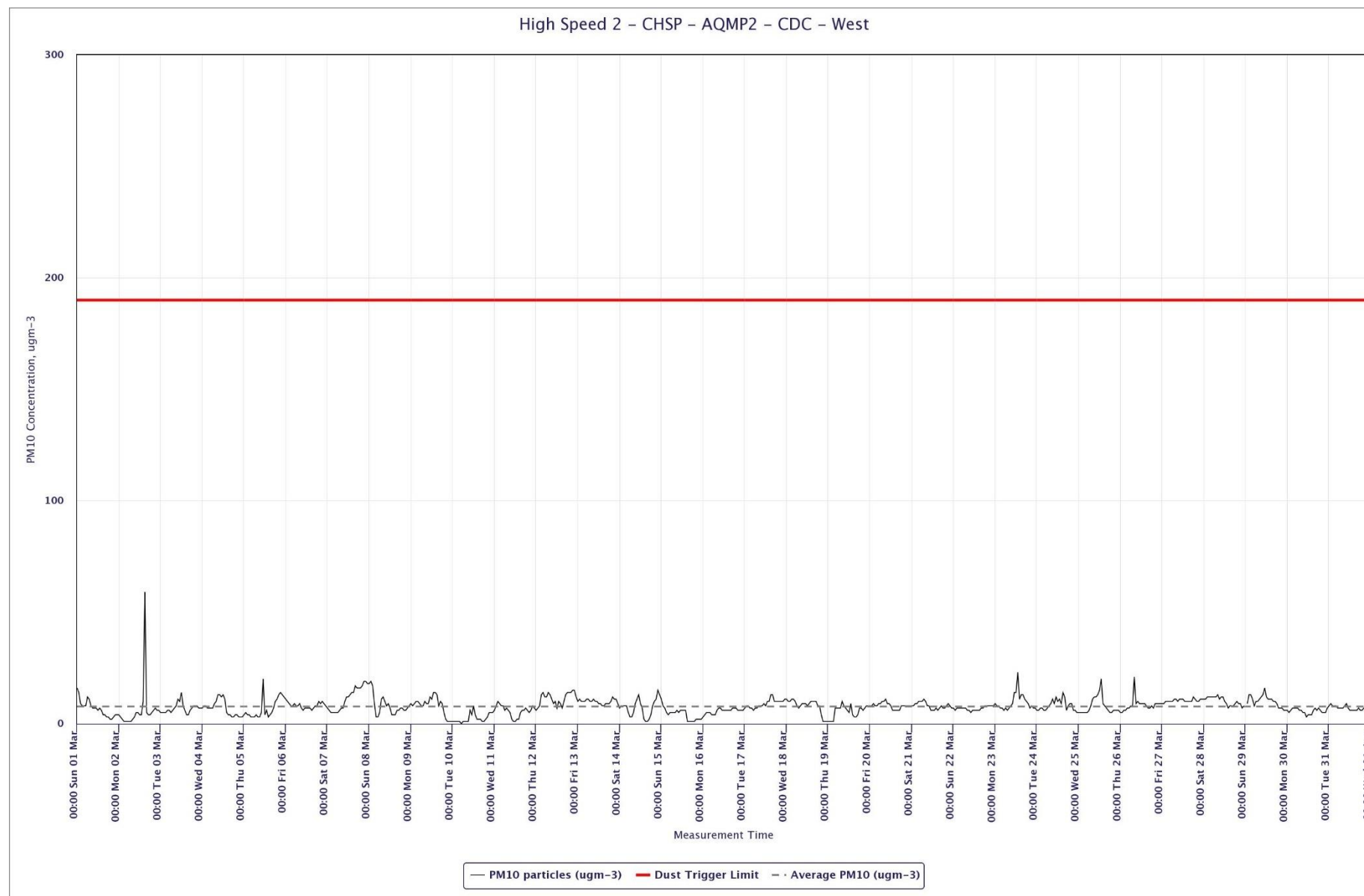


Figure 5: Continuous dust 1-hour mean indicative PM₁₀ concentration for 3252Dust2 for March 2020

