

Air Quality and Dust Monitoring Monthly Report – September 2018

Birmingham City 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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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 Birmingham City Council (BCC) during September 2018.
- 1.1.2 Figure 1 in Appendix A indicates the current work site together with dust monitoring locations for September 2018.
- 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 monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current phase of works commenced in BCC during July 2018 at the UK Mail Site and September at the Washwood Heath Site. The works were completed by the end of September 2018 at the UK Mail Site, but will continue to run into 2019 at the Washwood Heath Site. At Washwood Heath, whilst the dust monitors were in place in August, electrical power was not made available until September, therefore no monitoring data is available for August. There have been several instances of power failure across both sites which is represented by the poor data capture at monitors 262 (UK Mail) and 274, 277 and 280 (Washwood Heath) all of which had data capture less than 75%. We are currently looking into resolving these power issues. It should be noted that demolition works have yet to start at Washwood Heath, however, they are expected to begin in October 2018.
- 1.1.5 The current worksite (UK Mail), as presented in Appendix A, Figure 1, includes demolition of the existing UK Mail building. The majority of the building to be demolished is constructed of metal cladding (95%) with the remaining 5% brick work. Crushing of the material will not take place at this site and there will be no works taking place at the site below slab level.
- 1.1.6 The current worksite (Washwood Heath), as presented in Appendix A, Figure 2, includes demolition of the existing Washwood Heath buildings. The majority of the building to be demolished is constructed of metal cladding with some brick work. Crushing of the material will take place at this site however there will be no works taking place at the site below slab level.
- 1.1.7 Six (6) dust monitors (DM11) were installed around both worksites; two at UK Mail and four at Washwood Heath where pre-demolition works were underway. The sites were classified with a medium and High dust risk rating (UK Mail and Washwood Heath respectively).
- 1.1.8 Dust monitoring locations and results for September 2018 are presented in Appendix B, Table 1, together with line charts for September from each dust monitor.

1.1.9 No exceedances of the dust trigger level were recorded during the monitoring period.

1.1.10 No complaints were received for air quality during the monitoring period (September 2018).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksite and Monitoring locations during September 2018 (UK Mail)

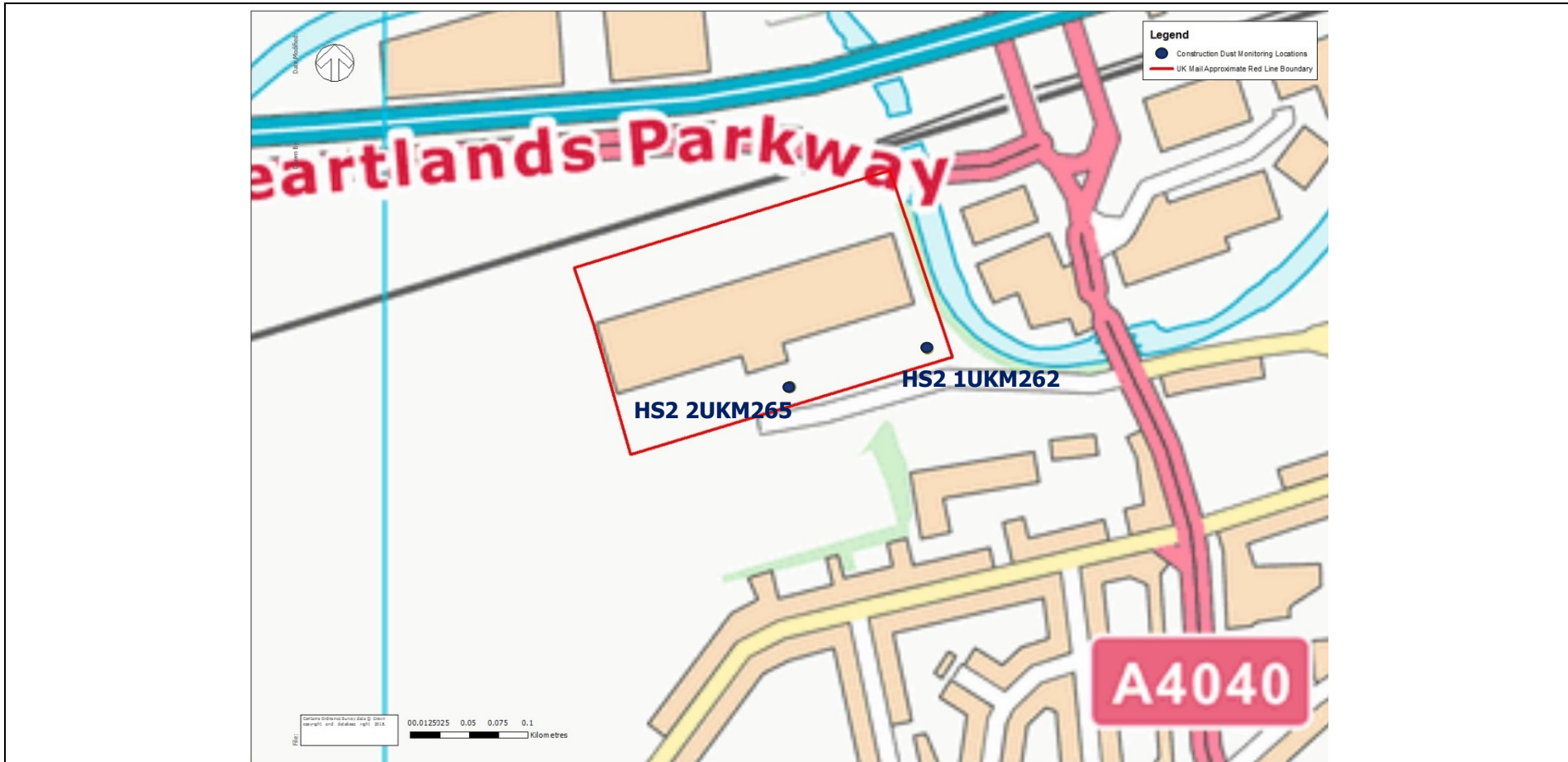


Figure Name

Monitoring locations during September 2018 in BCC

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Figure 2: Worksite and Monitoring locations during September 2018 (Washwood Heath)

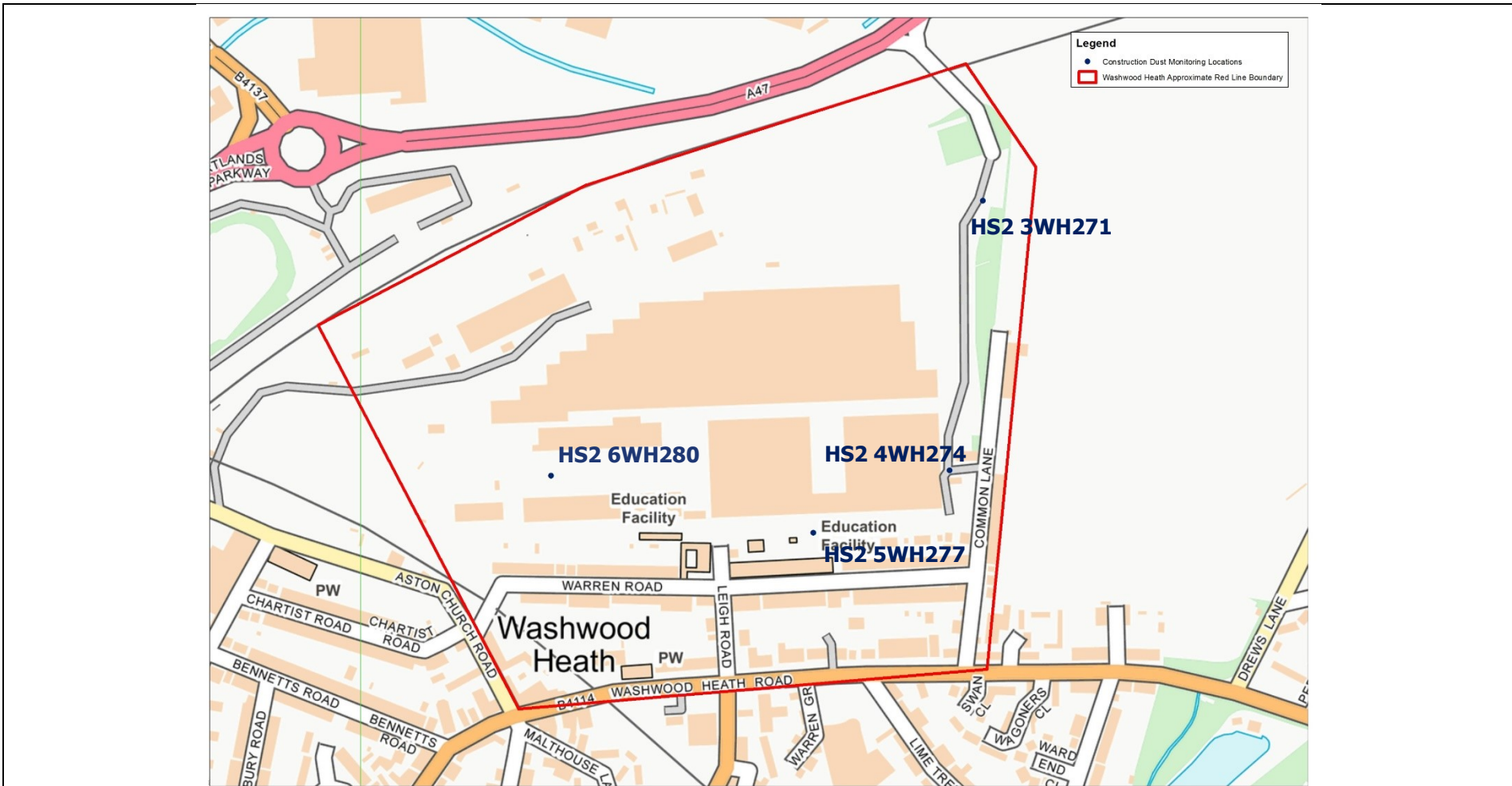


Figure Name

Monitoring locations during September 2018 in BCC

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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and September 2018 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 15-minute PM ₁₀ concentration (µg/m ³)	Minimum 15-minute PM ₁₀ concentration (µg/m ³)	Maximum 15-minute PM ₁₀ concentration (µg/m ³)	Number of 15-min periods exceeding trigger level of 250 µg/m ³	Data capture rate (%)
HS2 1UKM262	411460,289480	Monitor secured to yellow barrier to the south east of the UK Mail building	Medium	Yes	No	10.1	6.2	55.4	0	45.3
HS2 2UKM 265	411344,289446	Monitor secured to the yellow barrier to the south of the UK Mail building	Medium	Yes	No	10.4	4.5	43.1	0	79.9
HS2 3 WH 271	410698,289273	Monitor secured to the barrier	High	Yes	N/A	5.5	0.1	53.2	0	87.7
HS2 4WH 274	410661,288971	Monitor secured to the barrier	High	Yes	N/A	3.9	0.2	48.3	0	67.3
HS2 5WH 277	410508,288901	Monitor secured to the barrier	High	Yes	N/A	5.4	0	134.9	0	62.8
HS2 6WH 280	410214,288965	Monitor secured to the barrier	High	Yes	N/A	5.5	0.1	56.8	0	63.5

Figure 3: Construction dust 15-minute mean indicative PM₁₀ concentration for HS2 262 1UKM (September 2018)

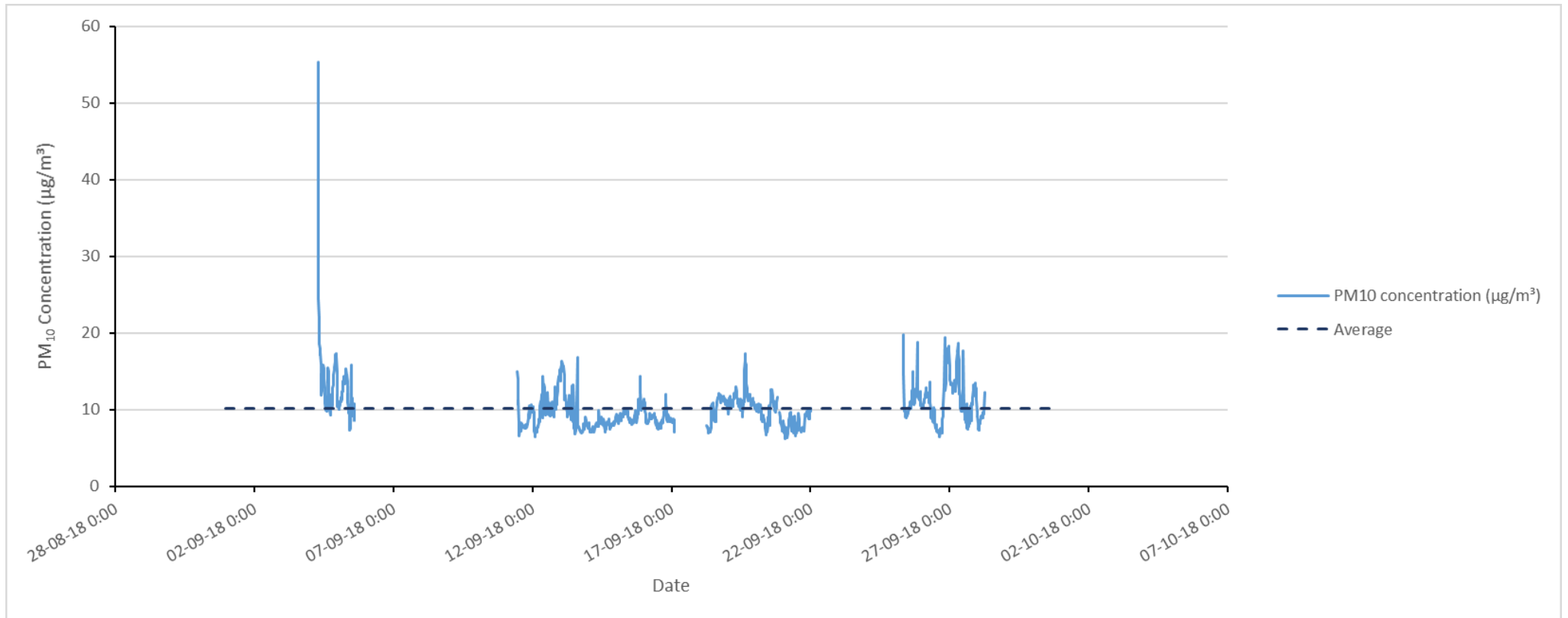


Figure 4: Construction dust 15-minute mean indicative PM₁₀ concentration for HS2 265 2UKM (September 2018)

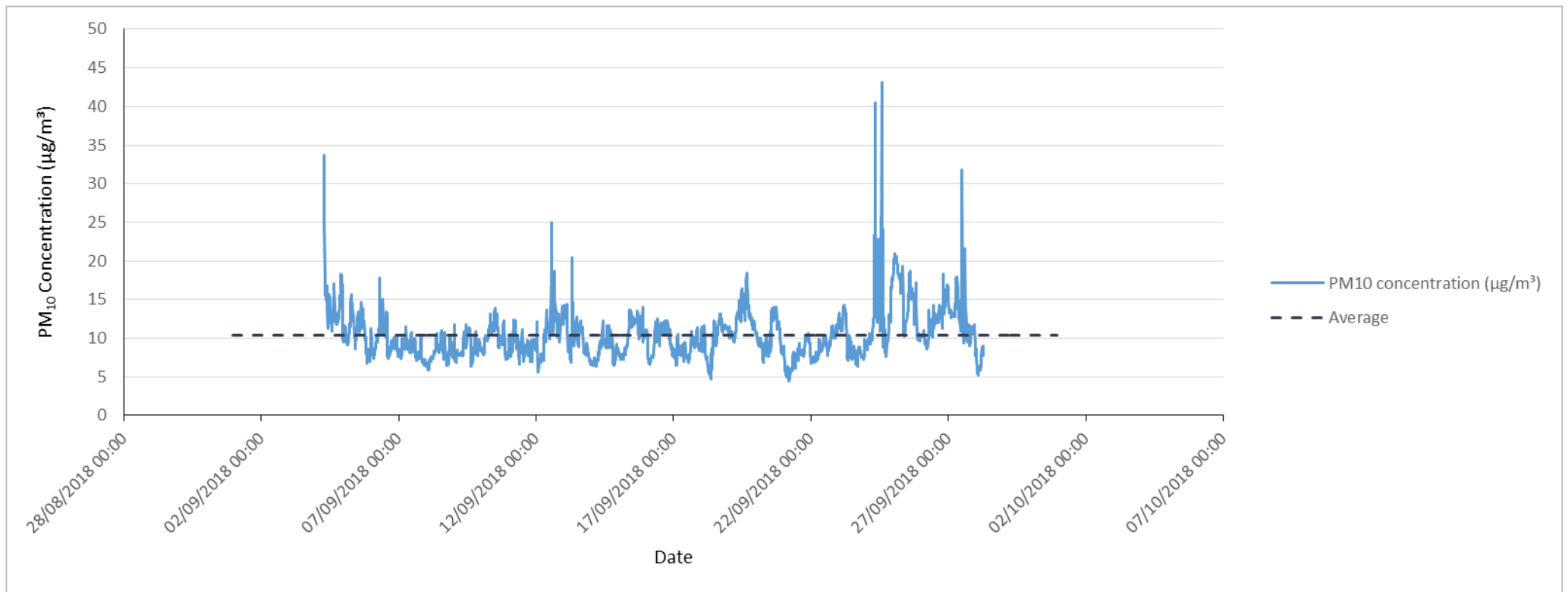


Figure 5: Construction dust 15-minute mean indicative PM₁₀ concentration for WSP HS2 3WH 271 (September 2018)

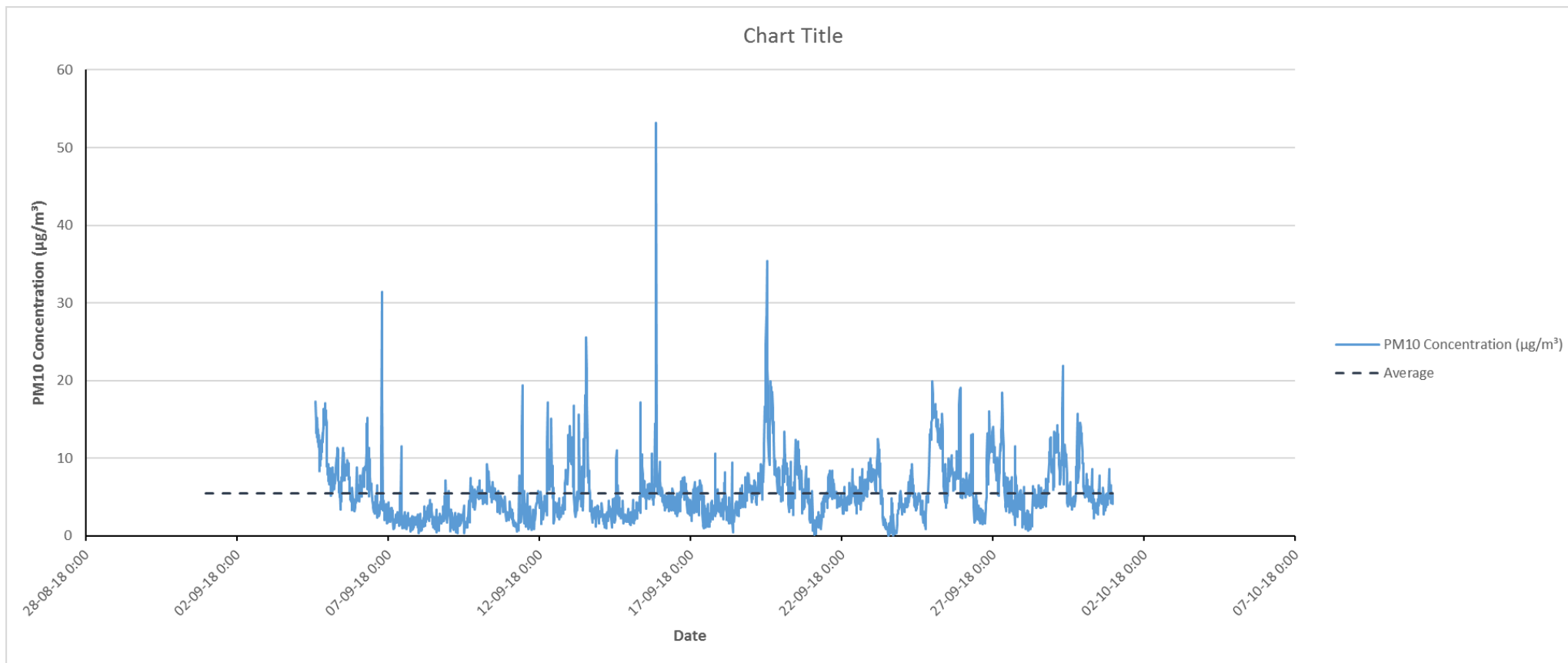


Figure 6: Construction dust 15-minute mean indicative PM₁₀ concentration for WSP HS2 4WH 274 (September 2018)

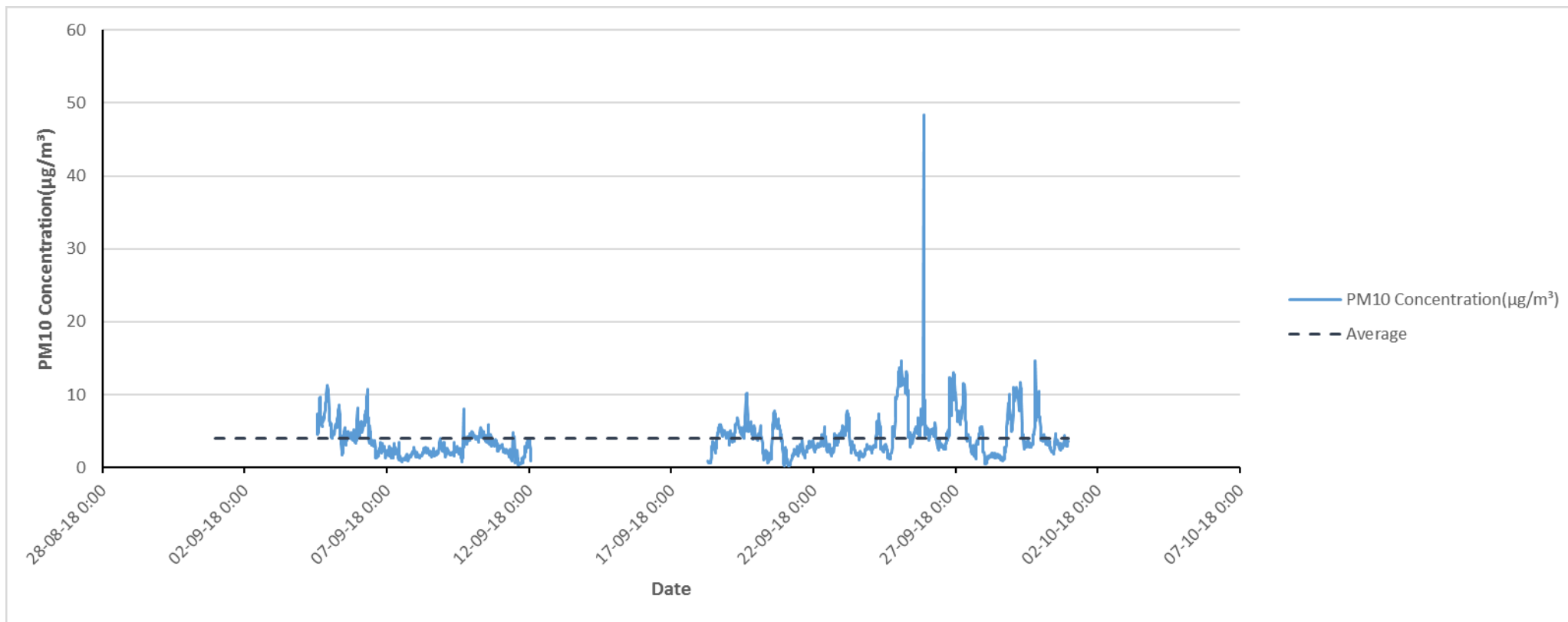


Figure 7: Construction dust 15-minute mean indicative PM₁₀ concentration for WSP HS2 5WH 277 (September 2018)

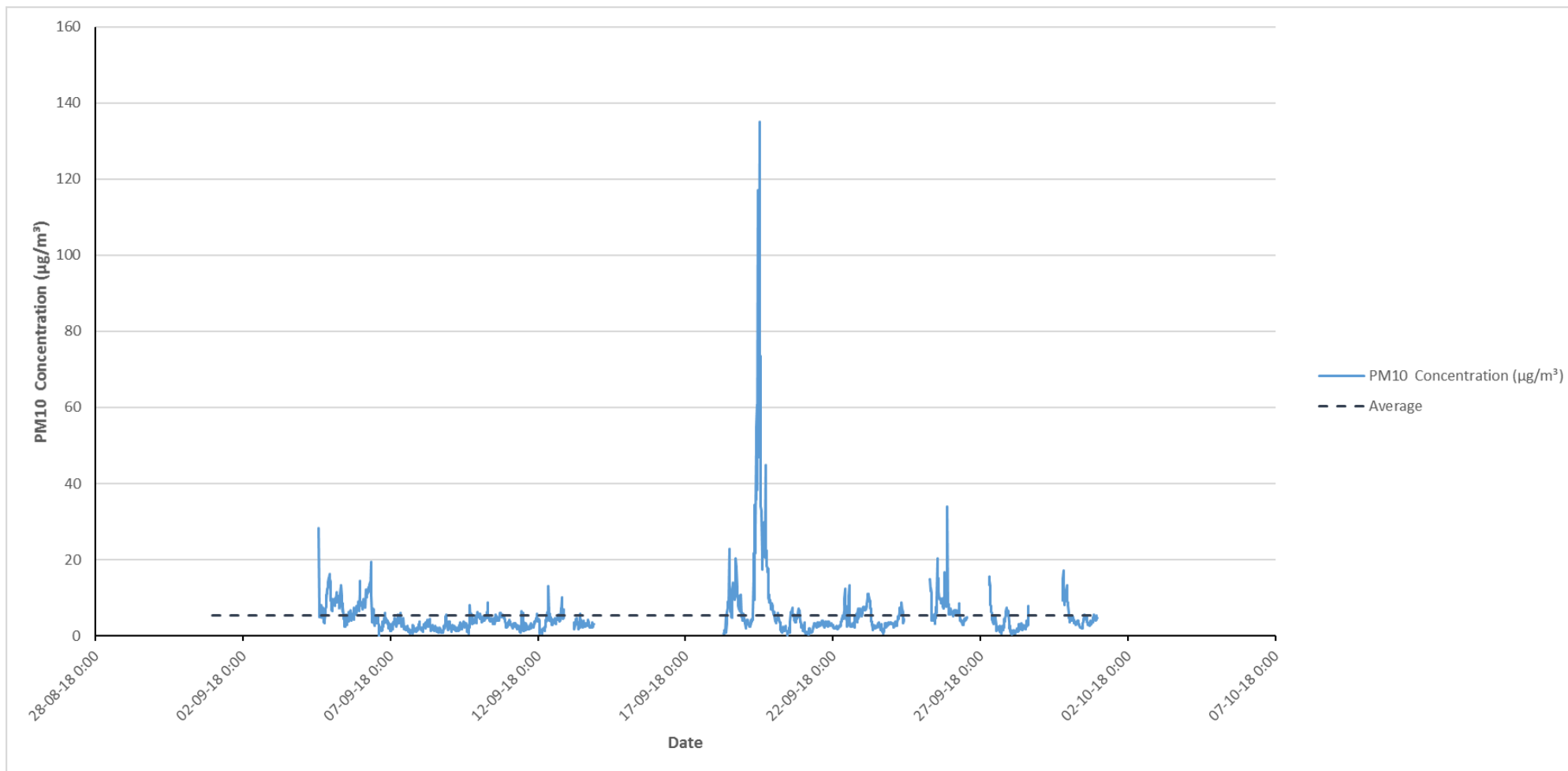


Figure 8: Construction dust 15-minute mean indicative PM₁₀ concentration for WSP HS2 6WH 280 (September 2018)

