

Air Quality and Dust Monitoring Monthly Report – November 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.

High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

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 Birmingham City Council (BCC) during November 2018.
- 1.1.2 Figure 1 in Appendix A indicates the current work site together with dust monitoring locations for November 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 September at the Washwood Heath Site and will continue to run into 2019. Following completion of the demolition works at the UK Mail Site in September 2018, the dust monitoring was decommissioned (monitoring ID: HS21UKM262 and HS2 2UKM265).
- 1.1.5 The current worksite (Washwood Heath), as presented in Appendix A, Figure 1, 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.
- 1.1.6 Four (4) dust monitors (DM11) were installed at the Washwood Heath site, where demolition and pre-demolition works were underway. The sites were previously classified with a High dust risk rating, in accordance with the methodology described in the Overview Monitoring Report, available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, in line with the IAQM Guidance (2014) on the assessment of dust from demolition and construction activities.
- 1.1.7 Dust monitoring locations and results for November 2018 are presented in Appendix B, Table , together with line charts for November from each dust monitor.
- 1.1.8 No exceedances of the 15-minute dust trigger level of either 190 mg/m³ were recorded during the monitoring period.

1.1.9 No complaints were received for air quality during the monitoring period (November 2018).

Appendix A – Washwood Heath Worksite and Dust Monitoring Locations

Figure 1: Washwood Heath Worksite and Monitoring locations during November 2018

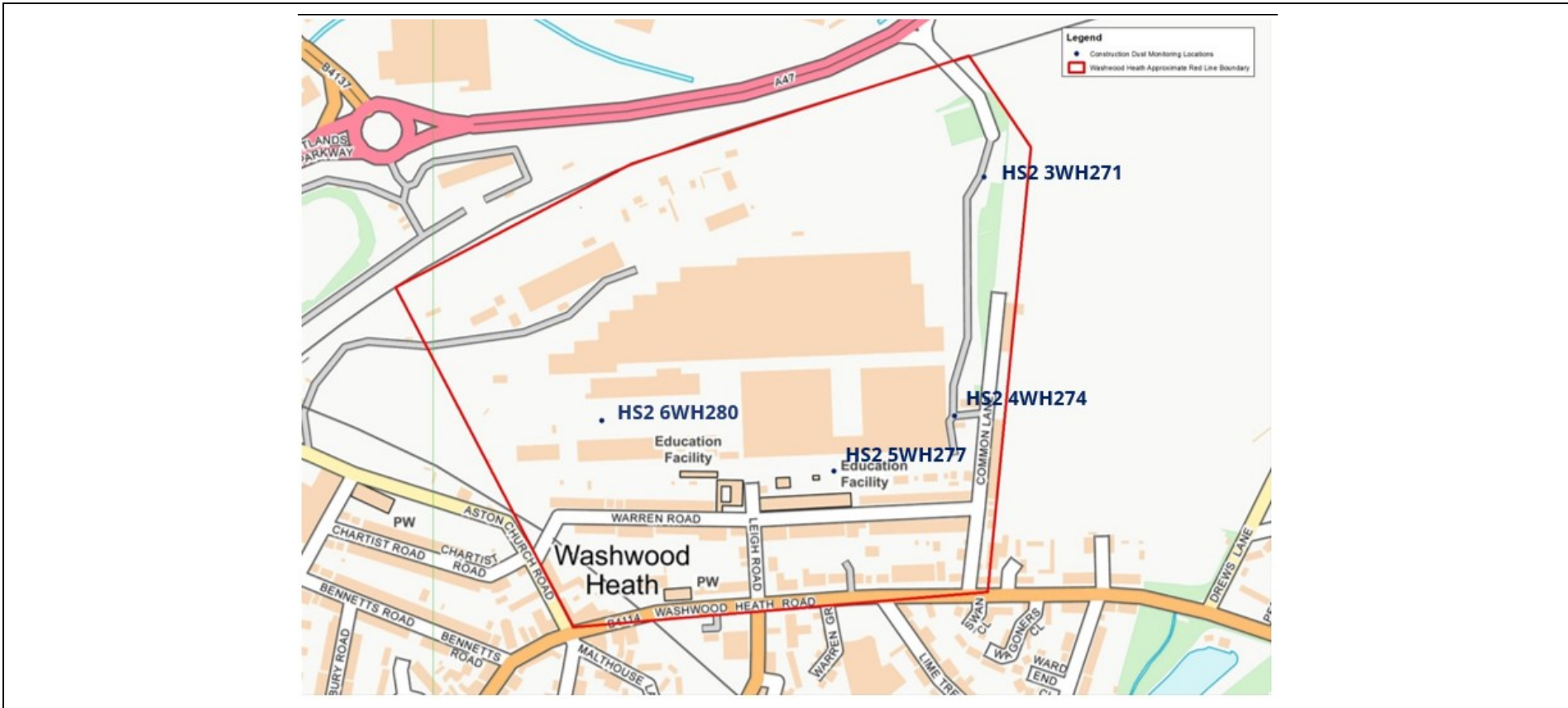




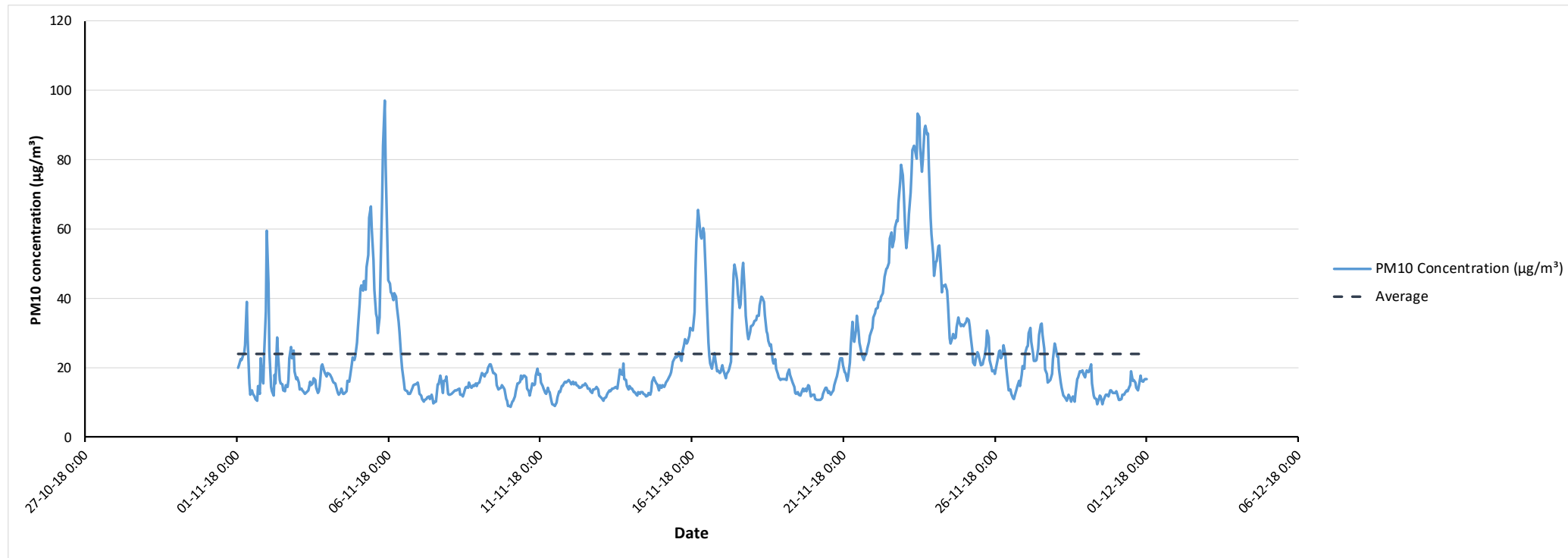
Figure Name	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	 
Washwood Heath Dust Monitoring Locations November 2018 in BCC		

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and November 2018 Results

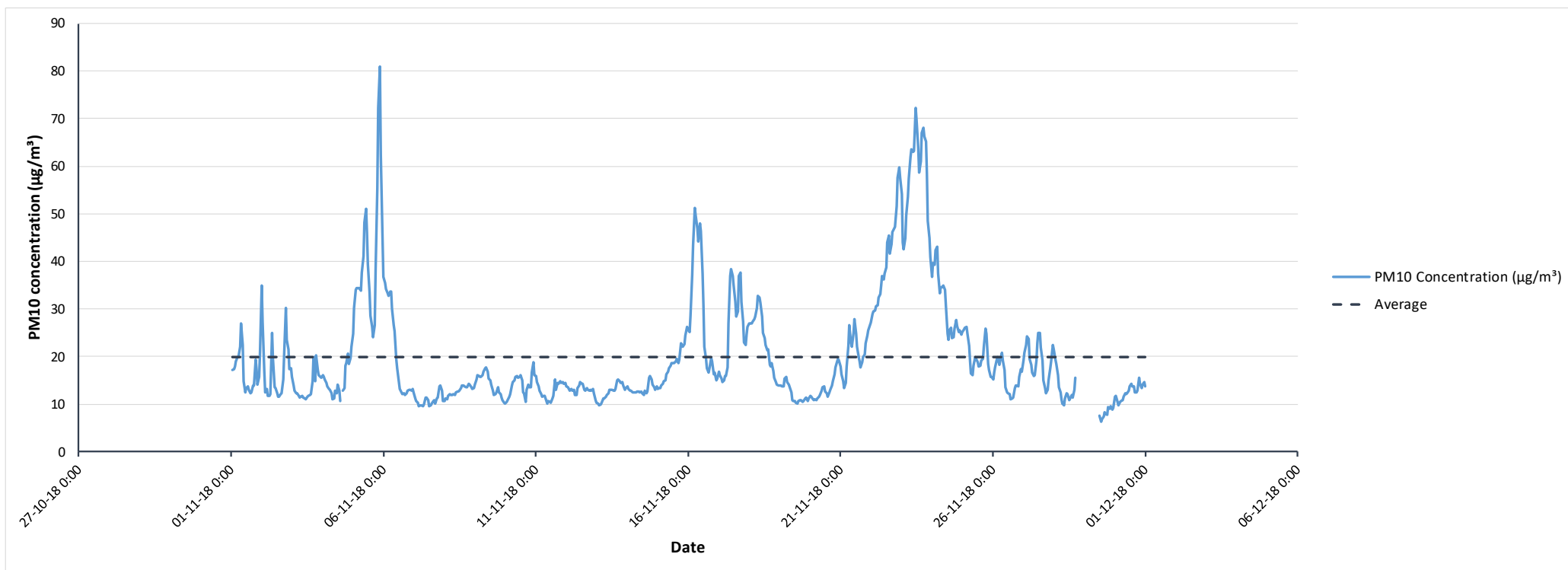
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture rate (%)
HS2 3 WH 271	410698,289273	Monitor secured to the barrier	High	Yes	N/A	23.9	8.8	97.1	None	100
HS2 4WH 274	410661,288971	Monitor secured to the barrier	High	Yes	N/A	19.9	6.3	81	None	97
HS2 5WH 277	410508,288901	Monitor secured to the barrier	High	Yes	N/A	24.2	8.6	91.3	None	85
HS2 6WH 280	410214,288965	Monitor secured to the barrier	High	Yes	N/A	21.2	8.1	84.6	None	80

Figure 1: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 3WH 271 (November 2018)



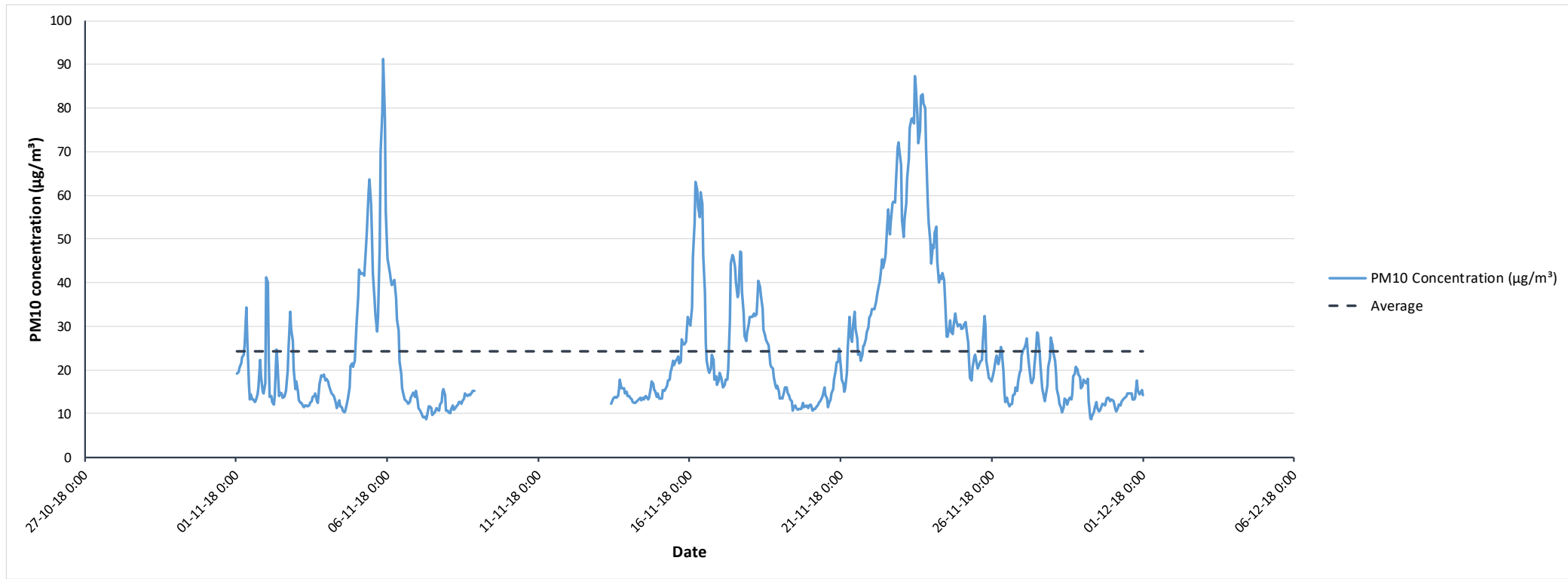
Monthly summary	
Monthly Maximum hourly Average Concentration (µg/m ³)	97.0914
Monthly Mean hourly Average Concentration (µg/m ³)	23.8573044
Monthly Minimum hourly Average Concentration (µg/m ³)	8.79118
Monthly Data Capture	100.00

Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 4WH 274 (November 2018)



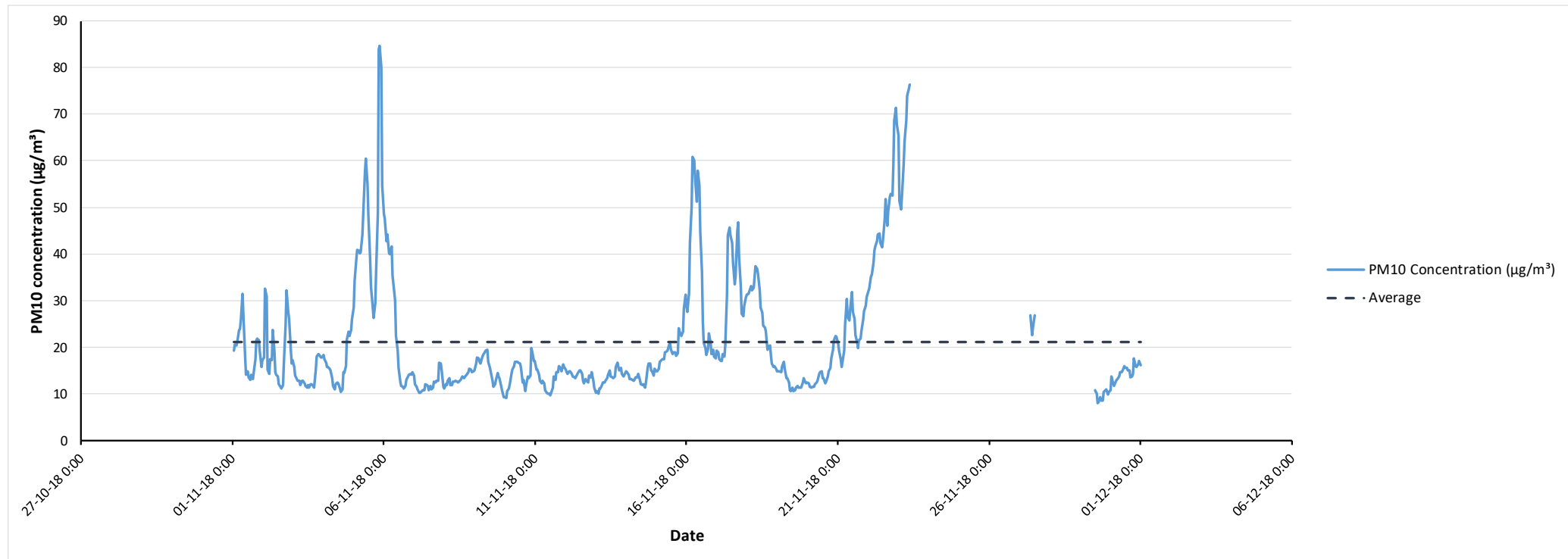
Monthly summary	
Monthly Maximum hourly Average Concentration (µg/m ³)	80.9852
Monthly Mean hourly Average Concentration (µg/m ³)	19.94494491
Monthly Minimum hourly Average Concentration (µg/m ³)	6.26615
Monthly Data Capture	97.36

Figure 3: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 5WH 277 (November 2018)



Monthly summary		
Monthly Maximum	hourly Average Concentration (µg/m ³)	91.3496
Monthly Mean	hourly Average Concentration (µg/m ³)	24.2246331
Monthly Minimum	hourly Average Concentration (µg/m ³)	8.63874
Monthly Data Capture		85.00

Figure 4: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 6WH 280 (November 2018)



Monthly summary		
Monthly Maximum	hourly Average Concentration (µg/m ³)	84.5682
Monthly Mean	hourly Average Concentration (µg/m ³)	21.16139997
Monthly Minimum	hourly Average Concentration (µg/m ³)	8.08129
Monthly Data Capture		80.28