

Air Quality and Dust Monitoring Monthly Report – March 2019

**London Borough of Hammersmith and
Fulham**



SKANSKA



Department for Transport

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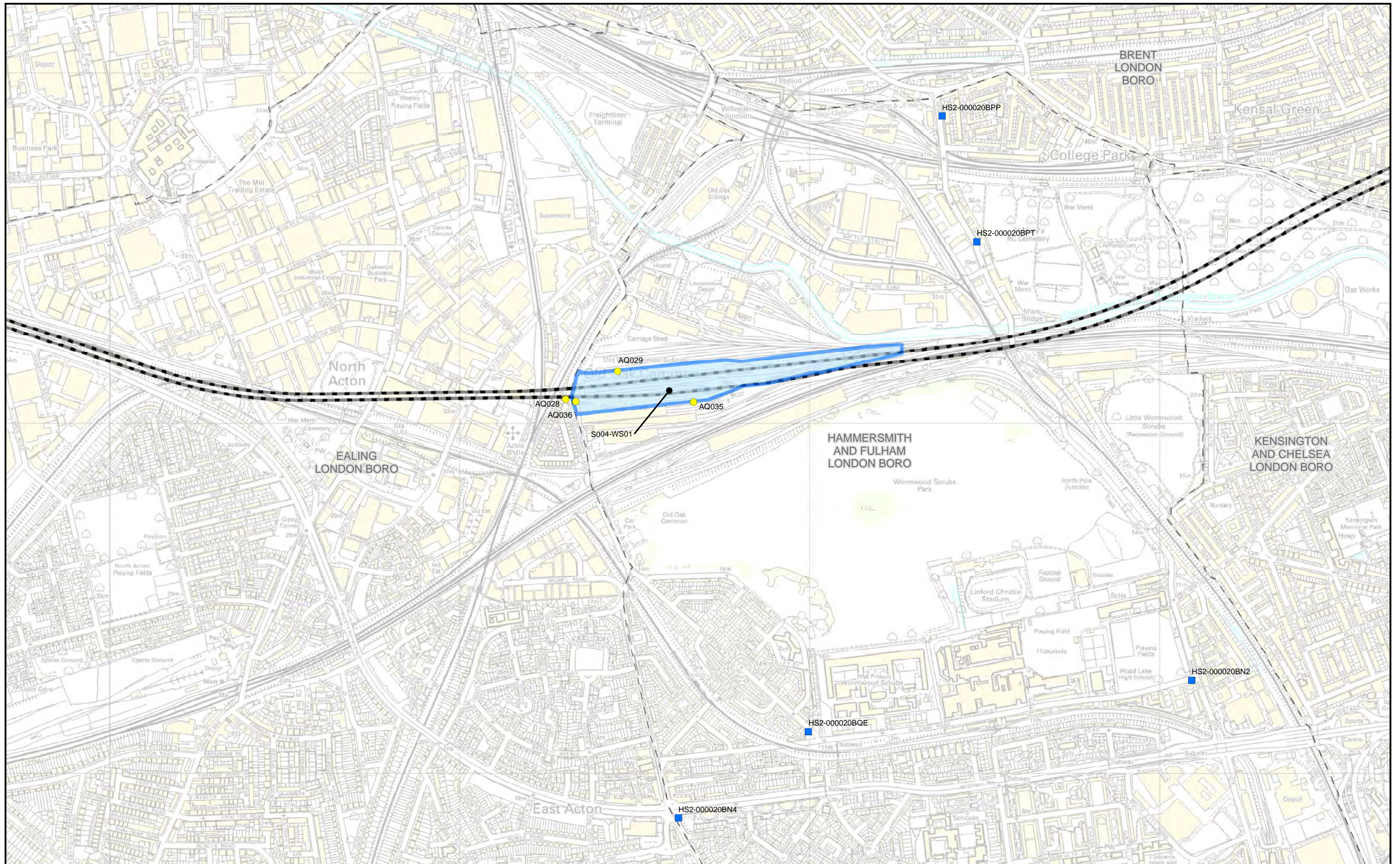
Monthly Summary

- 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 air quality and dust monitoring undertaken in the London Borough of Hammersmith and Fulham (LBHF) during February 2019 and March 2019 respectively.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current work sites together with air quality and dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report 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 commenced within the LBHF during May 2018, and are expected to be completed by July 2019. The current worksite, as presented in Appendix A, Figure 1, includes:
- Demolition and groundworks at Old Oak Common Depot, worksite ref. S004-WS01.
- 1.1.5 Four (4) dust monitors were installed around the worksite, where pre-demolition works are underway. This site returned a high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor in Figure 3.
- 1.1.7 There were no (0) exceedances of the dust trigger level during the month of March 2019.
- 1.1.8 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at seven (7) locations in February 2019, around highways within the LBHF as part of the management of air quality where significant effects may occur as a result the scheme.
- 1.1.9 Diffusion tube monitoring results are provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.
- 1.1.10 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2019 running mean.

1.1.11 There were no complaints received, relating to dust or air quality, during this monitoring period.


Appendix A – Worksites and Monitoring Locations


Figure 1 and 2: Worksites and monitoring locations within the LBHF



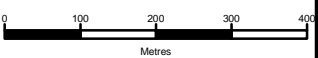
Legend	
	Route in tunnel
	Route on surface
	Dust monitoring location
	Diffusion tube monitoring location
	Old Oak Common worksite

Figure Number	
Figure Name	Worksites and Monitoring locations in LBHF (sheet 1)
	London Borough of Hammersmith and Fulham


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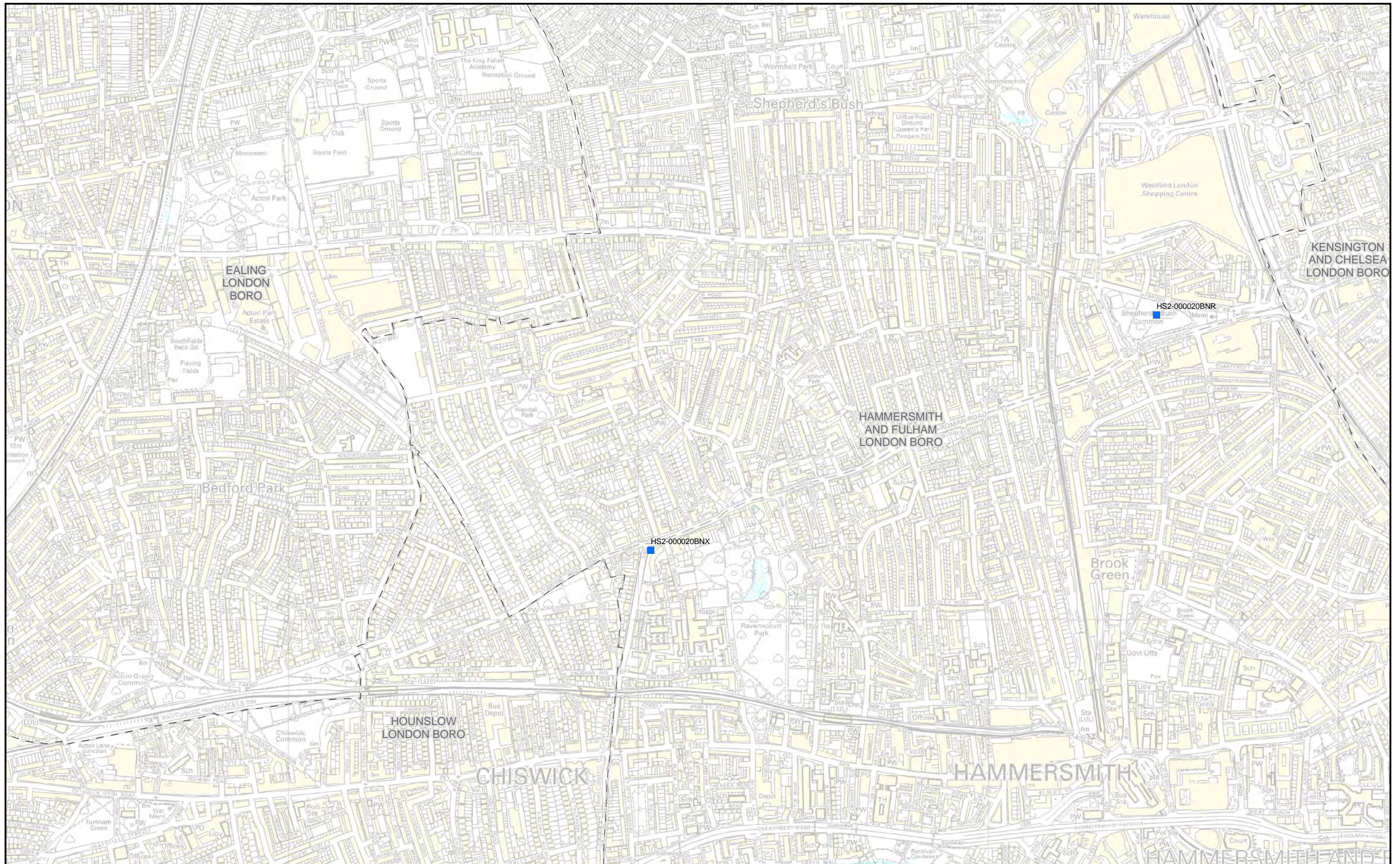


Scale at A3: 10,000



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- Legend**
-  Route in tunnel
 -  Route on surface
 -  Diffusion tube monitoring location

Figure Number


Figure Name
Worksites and Monitoring locations in LBHF (sheet 2)

London Borough of Hammersmith and Fulham

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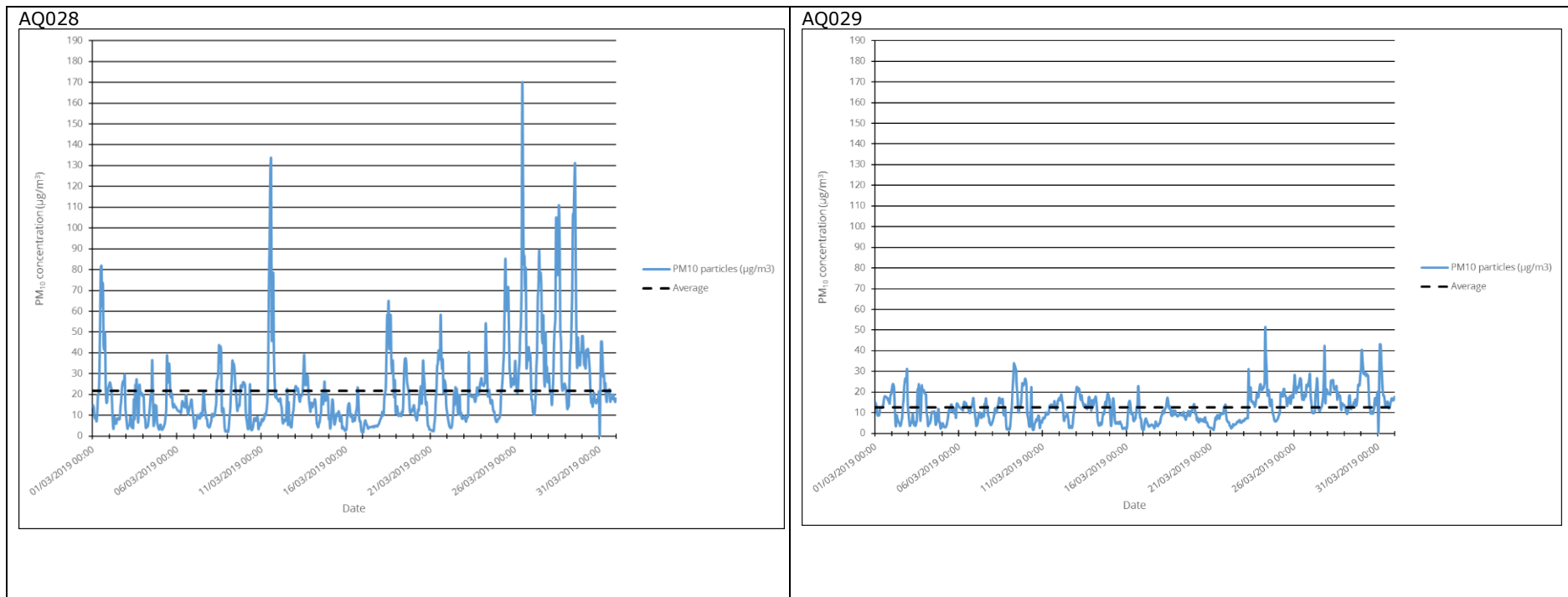
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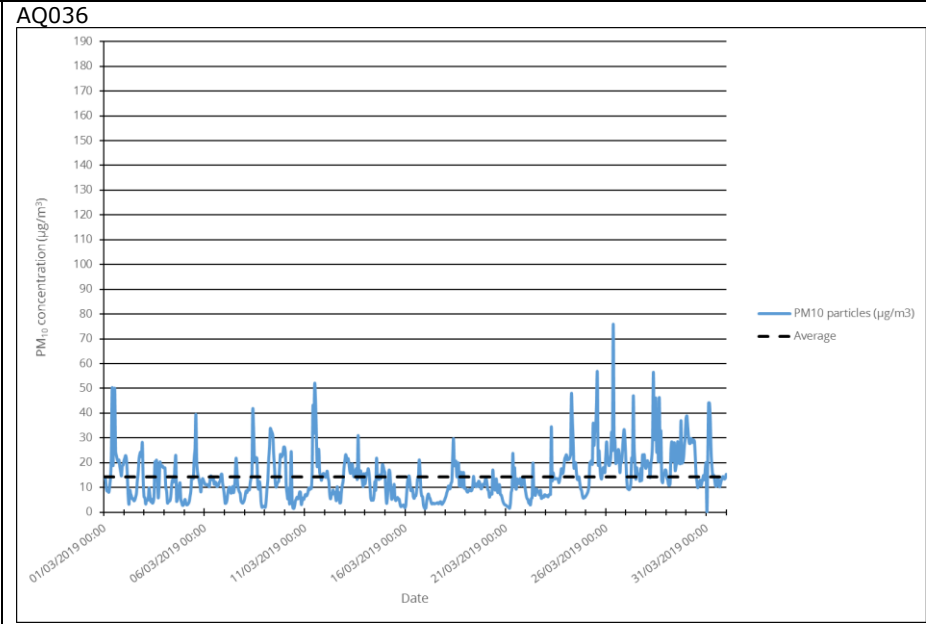
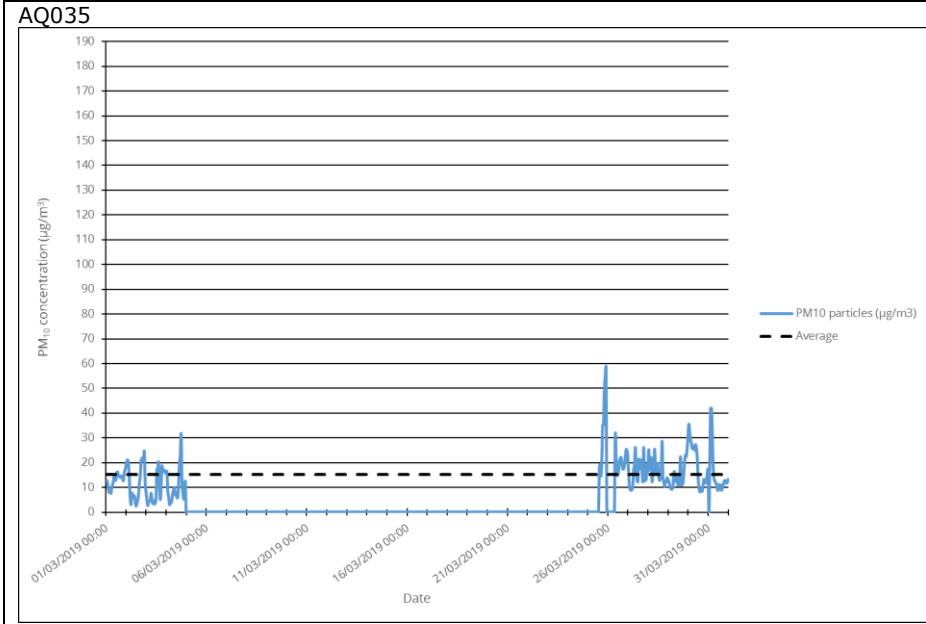
Appendix B – Dust Monitoring Results

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 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	1-hour data capture (%)
AQ028	521302, 182067	Wells House Road	H	Yes	N	21.8	1.9	168.8	0	99.9
AQ029	521451, 182148	Old Oak Common	H	Yes	N	12.5	1.7	51.2	0	99.9
AQ035	521668, 182060	Old Oak Common	H	Yes	N	15.3	2.4	58.5	0	32.1
AQ036	521331, 182061	Old Oak Common	H	Yes	N	14.3	1.6	76.0	0	99.9

Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitors





Appendix C – Air Quality Monitoring Results

Table 2: NO₂ monitoring locations around highways NO₂ concentrations and monthly monitoring results with running mean for 2019 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BN2	Lamp post on Du Cane Road	523092, 181264	53	61											57
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	52	56											54
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	52	50											51
HS2-000020BNX	Signpost on A402 Goldhawk Road	522035, 179199	48	45											46
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	60	64											62
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	49	65											57
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	No data	43											43

¹ Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual mean presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.