

Air Quality and Dust Monitoring Monthly Report – January 2024

London Borough of Hammersmith and Fulham



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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A report prepared by EWCs and MWCCs 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 air quality and dust monitoring undertaken in the London Borough of Hammersmith and Fulham (LBHF) during December 2023 and January 2024 respectively.

1.1.2 Figure 1 and Figure 2 in Appendix A present the current worksites 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 worksites, as presented in Appendix A, Figure 1 and Figure 2, include:

Old Oak Common Depot

- General Site - Conveyor operation, Concrete batching, materials management and haulage.
- Station Box - Concrete, D-Wall breakdown, steel fixing and excavation.
- Station Access Retaining Wall – Steel and shutters fixing
- Great Western Main line – Piling operations.
- Shared Accommodation Building – Excavations and drainage installations
- Site haul roads and public roads adjacent to site - Cleaning with a road sweeper.
- Old Oak Common East – Contiguous piling, Steel Fixing and haul road excavation.

Scheme 6

- Civil works
- OLE works

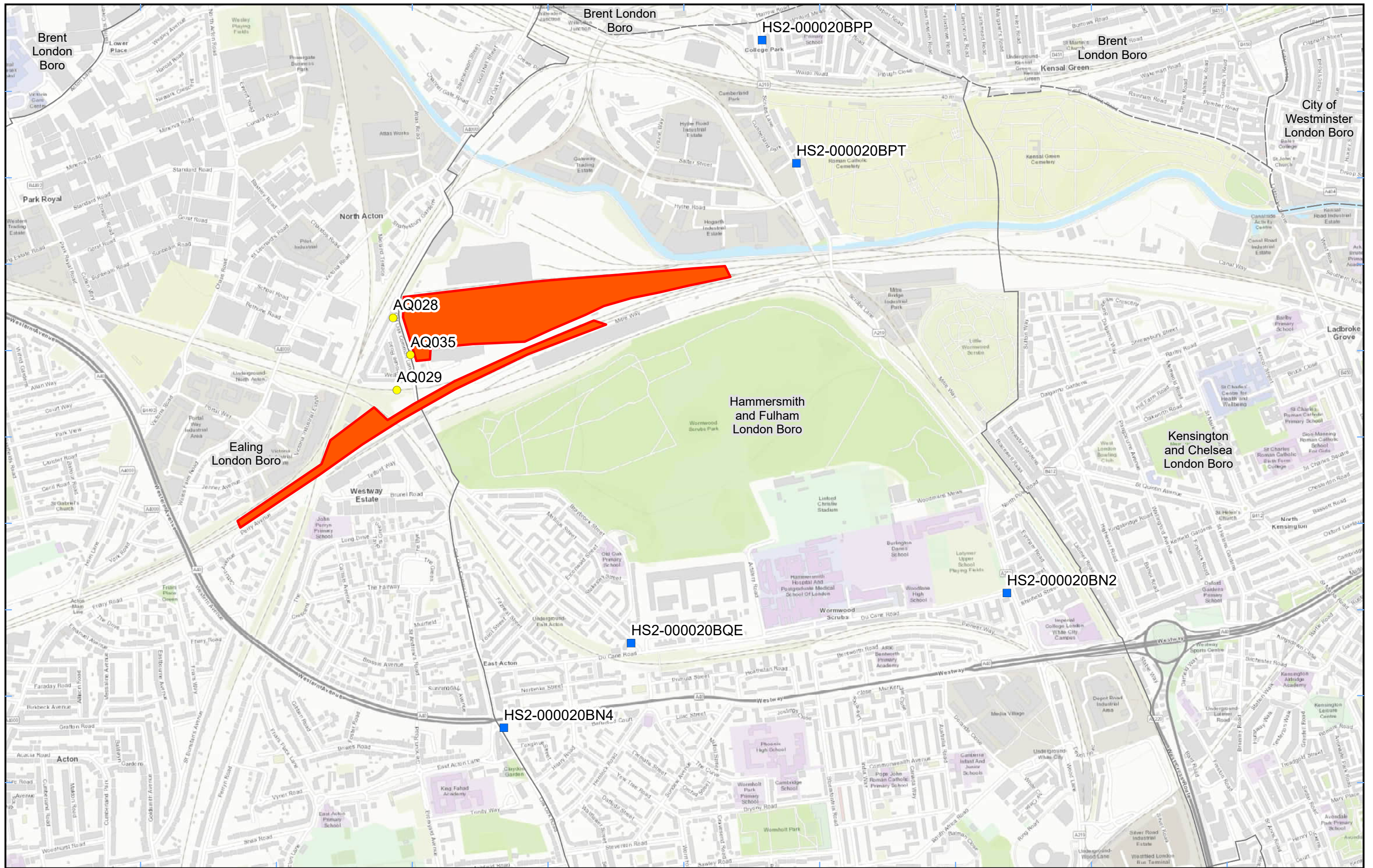
1.1.5 Three (3) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.

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 presented in Figure 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 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 No (0) dust trigger alerts were recorded during the monitoring period (January 2024).
- 1.1.9 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at seven (7) locations around highways within the LBHF as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.10 Diffusion tube monitoring results are as 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.
- 1.1.11 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2023 running mean.
- 1.1.12 There were no (0) complaints received during the reporting period (January 2024).

Appendix A – Worksites and Monitoring Locations

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



Legend

- Diffusion Tube
- Worksite
- Dust Monitor
- District Borough Unitary Boundaries

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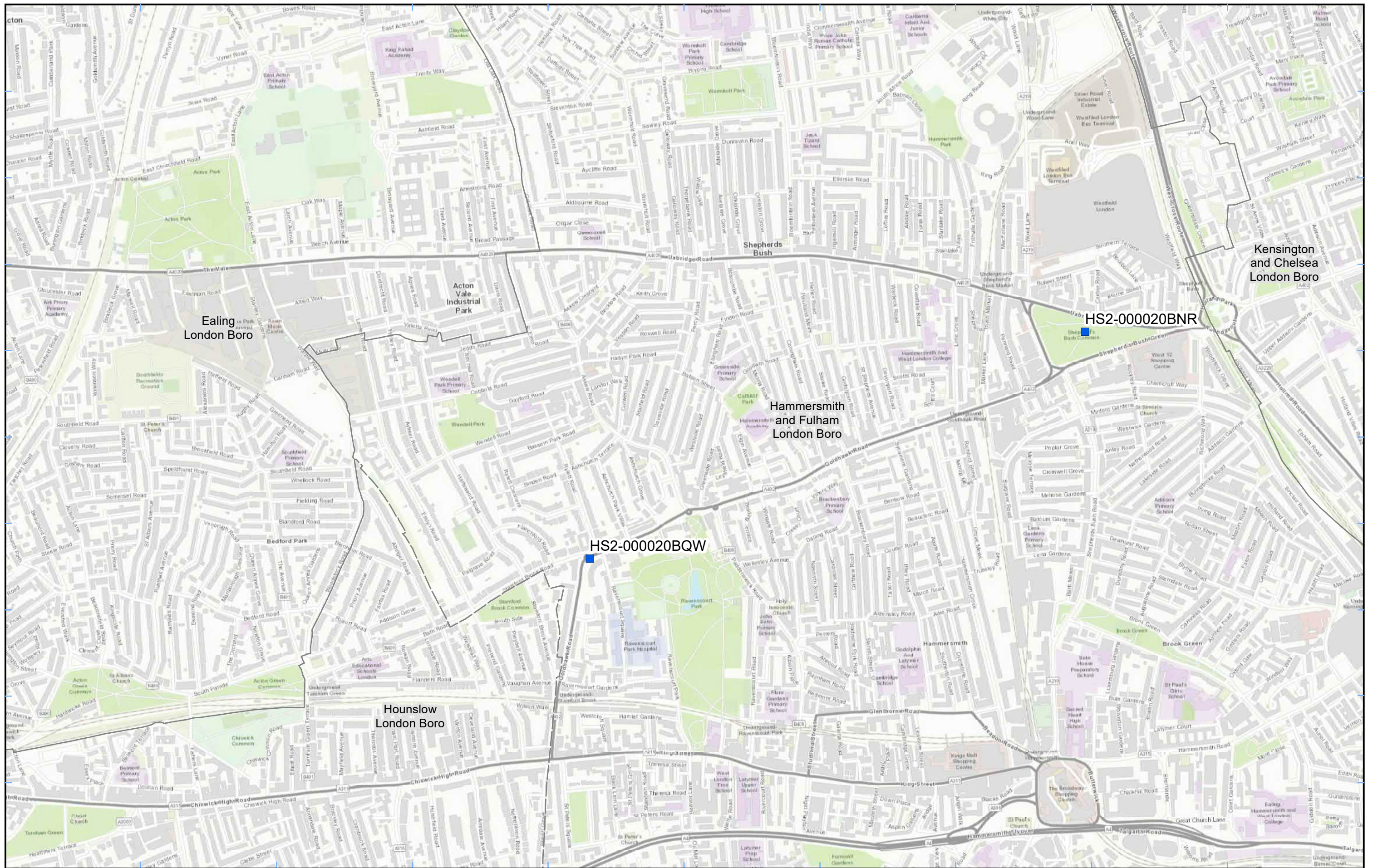
Map Number
 Map Name
**Worksite and Monitoring Locations
 In LBHF (Sheet 1)**
 London Borough of Hammersmith
 and Fulham

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Legend
 ■ Diffusion Tube
 □ District Borough Unitary Boundaries

Map Number
 Map Name
**Monitoring Locations In LBHF
 (Sheet 2)**
 London Borough of Hammersmith
 and Fulham

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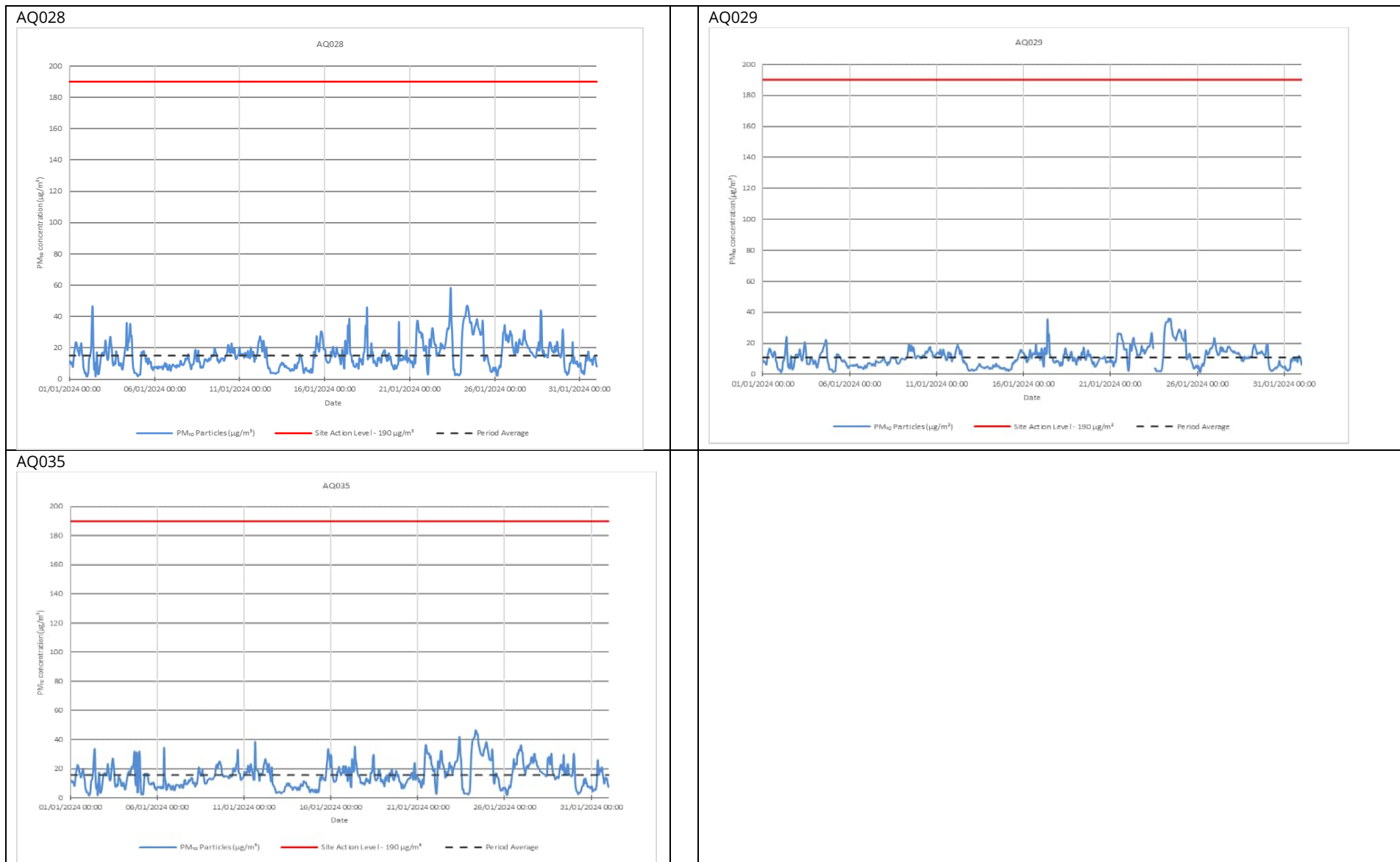
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Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and 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 (%)
AQ028	521302, 182067	Wells House Road	M	Yes	No	15.2	1.5	58.2	0	100.0
AQ029	521313, 181856	Old Oak Common	H	Yes	No	11.0	1.3	36.1	0	99.9
AQ035	521353, 181959	Old Oak Common	H	Yes	No	15.4	1.6	46.5	0	100.0

Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all 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 2023 (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	42	45	21	37	31	34	32	34	39	46	43	16	35
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	49	50	22	46	41	40	26	33	35	41	28	15	36
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	45	43	Tube Missing	37	25	Tube Missing	20	30	27	38	18	14	30
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	37	46	Tube Missing	38	35	29	29	31	38	44	Tube Missing	16	34
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	47	44	34	Tube Missing	33	35	24	Tube Missing	38	46	38	Tube Missing	38
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	31	33	25	20	20	20	20	24	26	29	31	11	24
HS2-000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	45	41	Tube Missing	Tube Missing	31	34	21	24	33	29	25	15	30

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.