

Air Quality and Dust Monitoring Monthly Report – March 2025

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 February and March 2025 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 – Concrete batching, materials management, and haulage.
- Urban Realm – Core drilling, installing push-pull props, breaking concrete slab.
- Station Box – Steel fixing, excavation, concrete pours, backfilling, breaking out, cutting concrete, formwork erection, striking.
- Great Western Main line – Steel fixing, excavation, shuttering and concrete.
- Shared Accommodation Building – Shuttering, steel fixing.
- Site haul roads and public roads adjacent to site – Cleaning with a road sweeper.
- Old Oak Common East – Welding, excavation, installing trench boxes, trial holes.
- Old Oak Common Lane – Welding, excavation, installing trench boxes, trial holes.

Further works, where monitoring did not take place, were also undertaken in LBE:

On Network Works

- Civil works; and
- OLE works.

1.1.5 Four (4) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.

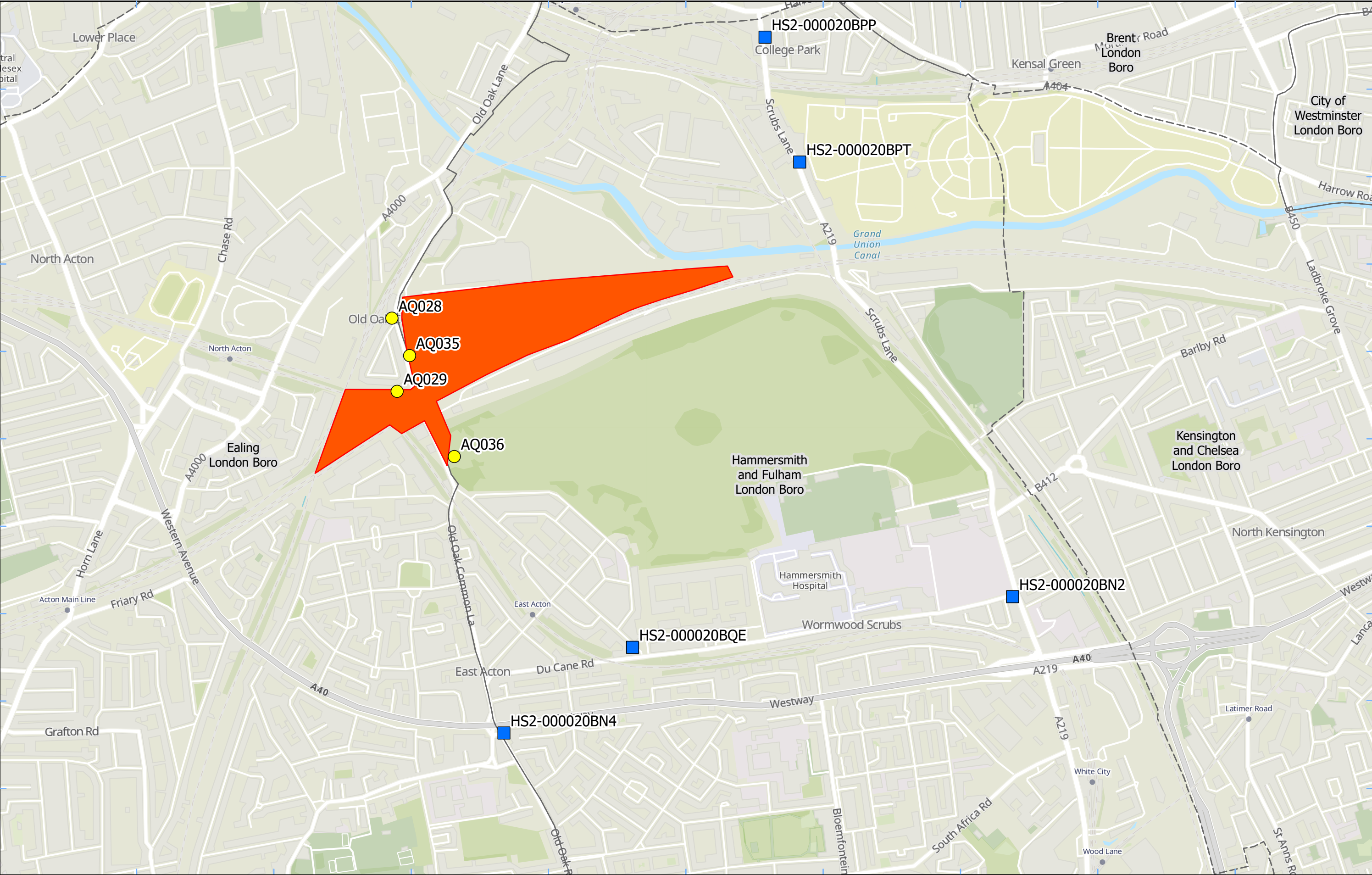
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 3. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 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 3, together with the 2025 running mean.
- 1.1.12 There were no (0) complaints received during the reporting period (March 2025).

Appendix A – Worksites and Monitoring Locations

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



Legend

Dust Monitor Worksite

Diffusion Tube 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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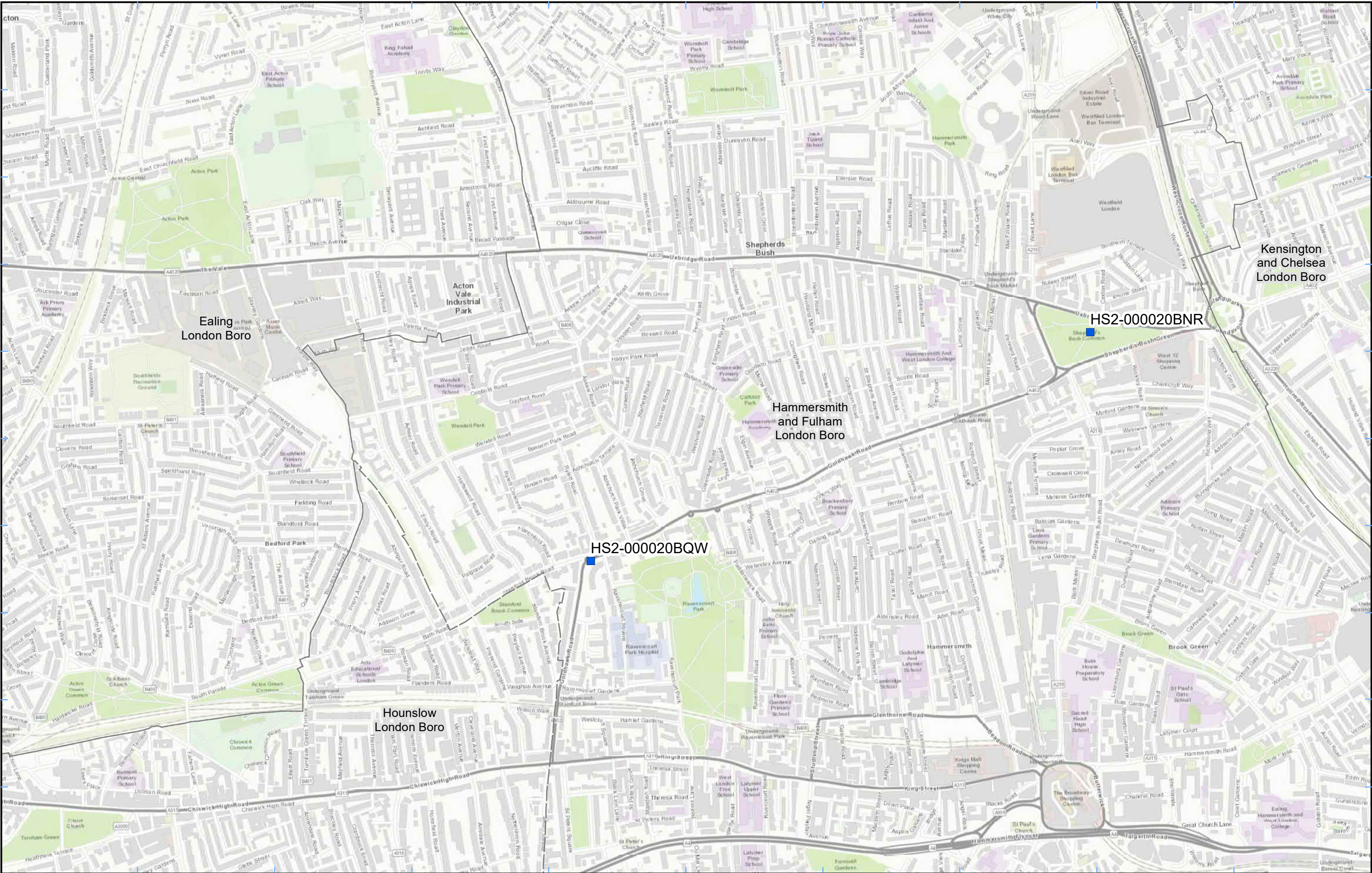
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Metres

Date: 06/02/25



Legend

- Diffusion Tube
- District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations In LBHF
(Sheet 2)**

**London Borough of Hammersmith
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Scale at A3: 1:10,000

0 100 200 300 400
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Appendix B – Dust Monitoring Results

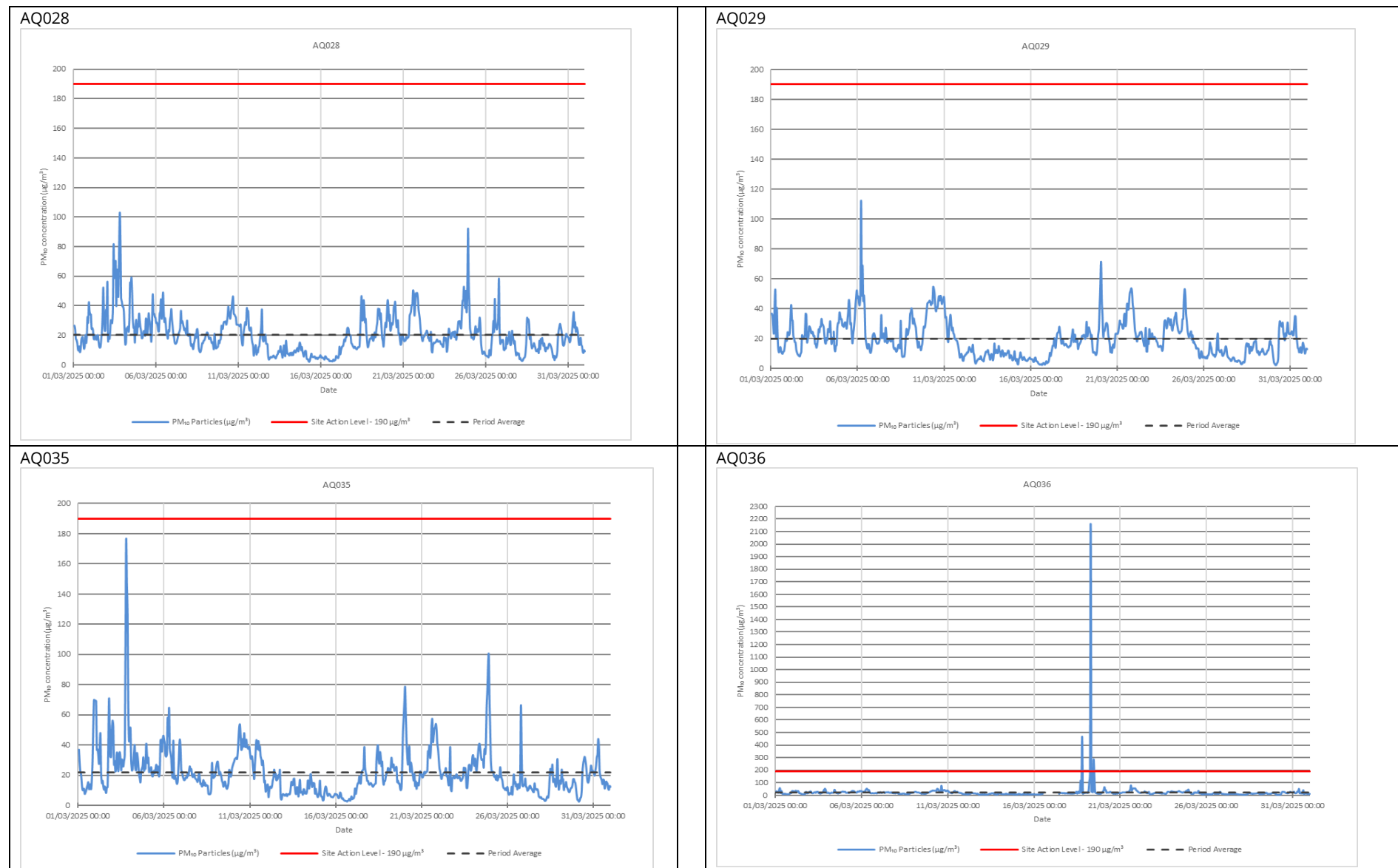
Table 1: Dust Monitoring Locations and Results

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	20.2	2.0	102.8	0	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	No	19.7	2.2	112.5	0	99.9
AQ035	521353, 181959	Old Oak Common	H	Yes	No	21.8	2.3	175.5	0	100.0
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	No	22.5	2.1	2160.6	3	97.0

Table 2: Summary of exceedances during period (March 2025)

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ036	18/03/2025 18:01 – 19:00; 466.7 µg/m ³	There were no site related activities in the vicinity of the monitor at the time of this exceedance, with work in the area completed by approximately 18:00. CCTV was checked and confirmed no site activity at the time of the exceedance.	No further action taken.
	19/03/2025 06:01 – 07:00; 2160.6 µg/m ³	The alert came immediately after a period of disconnection from the monitor. The weather at the time was cold with high humidity and it is likely this alert was caused by moisture in the sampled airstream rather than any on-site cause. There were no site activities at the time of the exceedance.	No further action taken.
	19/03/2025 10:01 – 11:00; 282.4 µg/m ³	OCU works include jet washing tunnel ducts and installing Thames Water main Barrow Hill. Manual sweeping of the road area was also being undertaken. UKPN works (approximately 20m north of the monitor) include backfilling and levelling a trench/duct route (plant in use was an excavator, dumper and wacker plate) in virgin ground in the vicinity of the exceedance. Traffic on Old Oak Common Lane is also identified as a potential cause, which is approximately 12m from the working area and point of the monitor location.	Work vans have been moved out of the area to allow enough space for the BBVS road sweeper and water truck through the area to manage dust on the road. A towable water bowser has been ordered to provide a water source for dust suppression in the area. OCU will ensure the site access way is unobstructed going forward. Manual sweeping will only be carried out when the road is wet/damp. All plant used on site are compliant with emission standards (Euro Stage IV). UKPN will continue with briefs to undertake dust suppression during excavation works and not idling the machinery if not in use for excavation activities. Site team reminded to be conscious of excavator works in proximity to receptors.

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



Appendix C – Air Quality Monitoring Results

Table 3: NO₂ monitoring locations around highways NO₂ concentrations and monthly monitoring results with running mean for 2025 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BN2	Lamp post on Du Cane Road	523092, 181264	50	32											41
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	42	127											84
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	39	34											37
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	49	17											33
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	Tube Missing	Tube Missing											Tube Missing
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	34	29											31
HS2-000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	37	33											35

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.

² The annual mean for diffusion tubes presented in the table above still require various analysis and adjustments to be undertaken before comparison to the Air Quality Objectives. The final corrected annual mean will be presented in the HS2 Annual Air Quality Report.