

Air Quality and Dust Monitoring Monthly Report – May 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.

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 EWCs and MWCCs on behalf of HS2 Ltd.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2025, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/2 **OGL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



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 April 2025 and May 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, Haulage.
- Station Box – Steel fixing, Concrete Pours, Formwork erection, Striking.
- Station Access Retaining Wall – Steel and shutters fixing.
- Great Western Main line – Steel fixing, Concreting, Formwork, Digging and Backfilling.
- Urban Realm – Excavation, Installing Sheet Piling, Ground Levelling.
- Site haul roads and public roads adjacent to site - Cleaning with a road sweeper.
- Old Oak Common East – Excavation, welding, fitting mains, Concrete Breaking.
- Old Oak Common Lane – Utilities trial holes, vacuum excavation, dismantling trench boxes, installing concrete plinths.
- Walking on Woods – Material Deliveries/ Utilities 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.

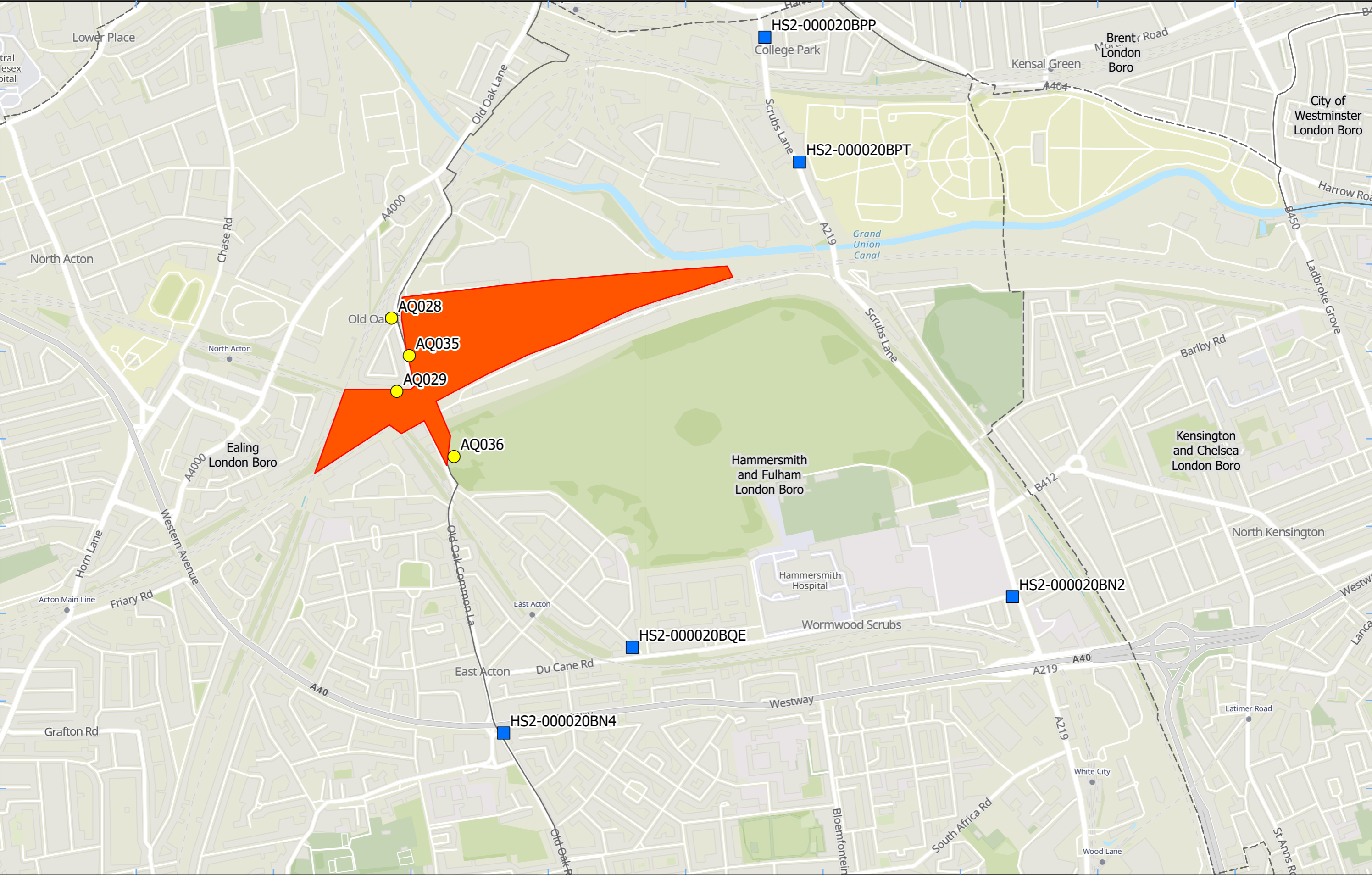
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 3. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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 (May 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

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

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



Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

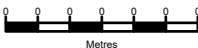
© Crown copyright and database rights 2025.
Ordnance Survey Licence Number 100049190.

Doc Number:

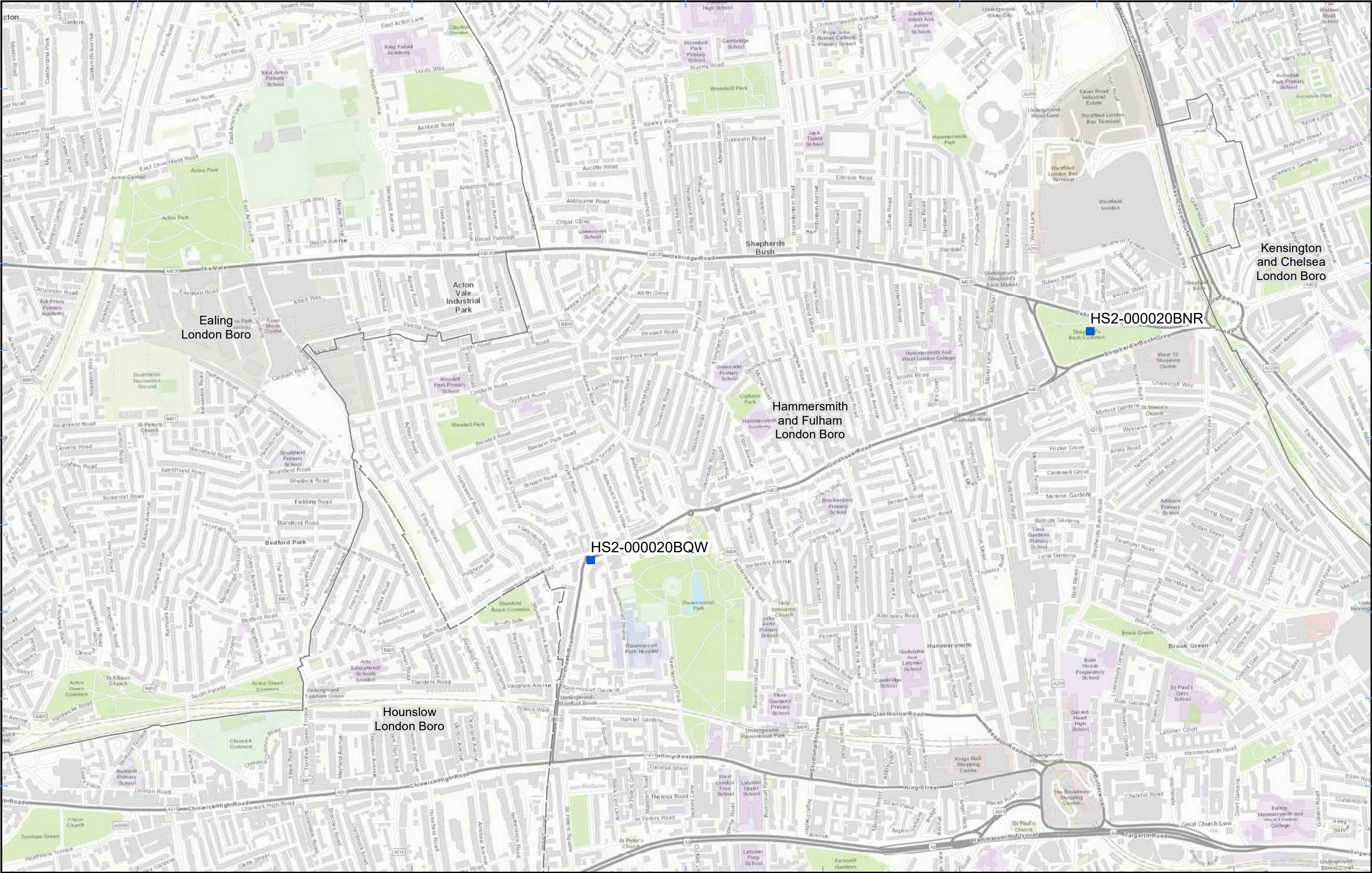
HS2 Ltd accept no responsibility for any circumstances, which
arise from the reproduction of this map after alteration,
amendment or abbreviation or if it is issued in part or issued
incomplete in any way.





Scale at A3: 1:10,000



Date: 06/02/25



Legend

-  Diffusion Tube
-  District Borough Unitary Boundaries


Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number


Map Name

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

**London Borough of Hammersmith
and Fulham**



Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.



Scale at A3: 1:10,000

0 100 200 300 400
Metres

© Crown copyright and database rights 2020.
Ordnance Survey Licence Number 100049190.

Doc Number:

Date: 08/12/20

Appendix B – Dust Monitoring Results

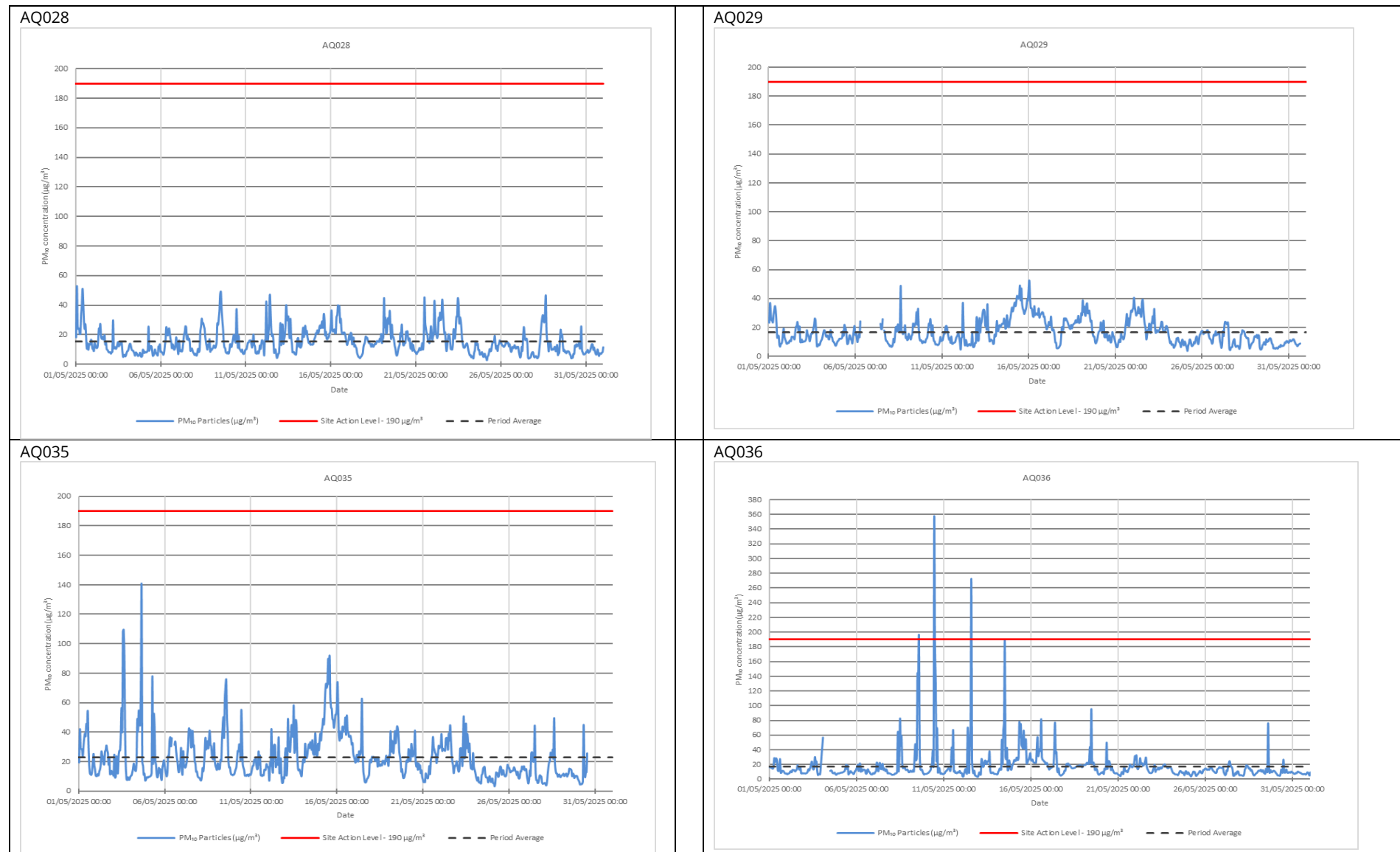
Table 1: Dust Monitoring Locations and Results

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	15.3	2.8	53.0	0	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	No	16.7	3.7	52.4	0	95.2
AQ035	521353, 181959	Old Oak Common	H	Yes	No	22.8	3.4	140.1	0	94.9
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	No	17.4	2.7	354.8	3	98.8

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

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ036	09/05/2025 13:01 – 14:00; 193.8 µg/m ³	An investigation was undertaken, potential causes include: UKPN works included backfilling and levelling a joint bay (plant in use was an excavator, dumper and wacker plate) in virgin ground in the vicinity of the exceedance. OCU doing Butt Fusion welding in the Wormwood Scrubs Compound. Activities / deliveries by other contractors in the same area in the vicinity of the monitor.	UKPN will continue with briefs to undertake dust suppression during excavation works and not idling the machinery if not in use for excavation activities.
	10/05/2025 10:01 – 11:00; 354.8 µg/m ³	An investigation was undertaken, potential causes include: UKPN works included backfilling and levelling a joint bay (plant in use was an excavator, dumper and wacker plate) in virgin ground in the vicinity of the exceedance. Activities / deliveries by other contractors in the same area in the vicinity of the monitor.	UKPN will continue with briefs to undertake dust suppression during excavation works and not idling the machinery if not in use for excavation activities.
	12/05/2025 13:01 – 14:00; 272.2 µg/m ³	An investigation was undertaken and determined that a dumper was transporting a water bowser into the area for dust suppression.	No further action undertaken.

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	52	34									42
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	42	127	51	44									66
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	39	34	30	34									34
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	49	17	44	37									37
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	Tube Missing	Tube Missing	36	38									37
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	34	29	42	22									32
HS2-000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	37	33	Tube Missing	31									34

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.