

Air Quality and Dust Monitoring Monthly Report – June 2026

London Borough of Ealing



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 Ealing (LBE) during May 2026 and June 2026 respectively.
- 1.1.2 Figure 1 to Figure 3 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 to Figure 3, include:

Old Oak Common Depot (located in the London Borough of Hammersmith and Fulham)

- General Site: General site-wide housekeeping and general site tidying, plant and traffic set-up and movement, relocating and reinstating site fences, housekeeping and tidying, traffic management for site-wide access.
- Station Box: Steel fixing, general carpentry, concrete works, and compaction, scaffolding, and mastic installation.
- GWML and SAB: Blockwork in the SAB and west core, demobilisation from SAB, muck away and backfill operations, steel fixing, general carpentry.
- Site Haul Roads and Public Roads Adjacent to Site: Clean the site haul roads with a road sweeper, clean the public roads on Old Oak Common Lane and Wells House Road with a road sweeper, clean the public pavements on Wells House Road and Old Oak Common Lane, clean the areas around OOH and the Welfare Compound with a ride-on scrubber dryer, clean vehicle wheels with a wheel wash and two jet wash units, dust suppression on the site haul roads and footpaths with a water bowser.
- OOCL: Digging for SSEN ducts and excavations for service transfer, dig for SSEN in North UTX and backfill SSEN in South UTX, excavate for service connections, dig for distribution and cut and cap the main, dig for comms, removal of tanks and tidy up, muck away and backfill operations, excavation works, excavating for crane mat and grading crane base, pile bursting, over-pumping pipework and groundworks (west side), plant and traffic movement.
- MEPH: Installing modules on Platform 10, moving equipment, tools and materials to Platform 10, moving VCBs.
- Blockwork: building blockwork (SAB and west core), ongoing block wall construction, blockwork in SAB rooms.

- Attenuation Tank: Material moving, loading and unloading in AD03 and AD09.

Victoria Road Crossover Box and Flat Iron Site

- Crossover Box construction, Headhouse construction, SCL works in Old Oak Common Tunnels, and materials management.

Willesden Euro Terminal

- TBM Arisings stockpiling, management, and onward removal by rail.

Atlas Road

- Segment storage and material management.

Green Park Way Vent Shaft

- Vent shaft construction, materials management, and Headhouse construction.

Mandeville Road Vent Shaft

- Vent shaft construction, utilities works and materials management.

Westgate Vent Shaft

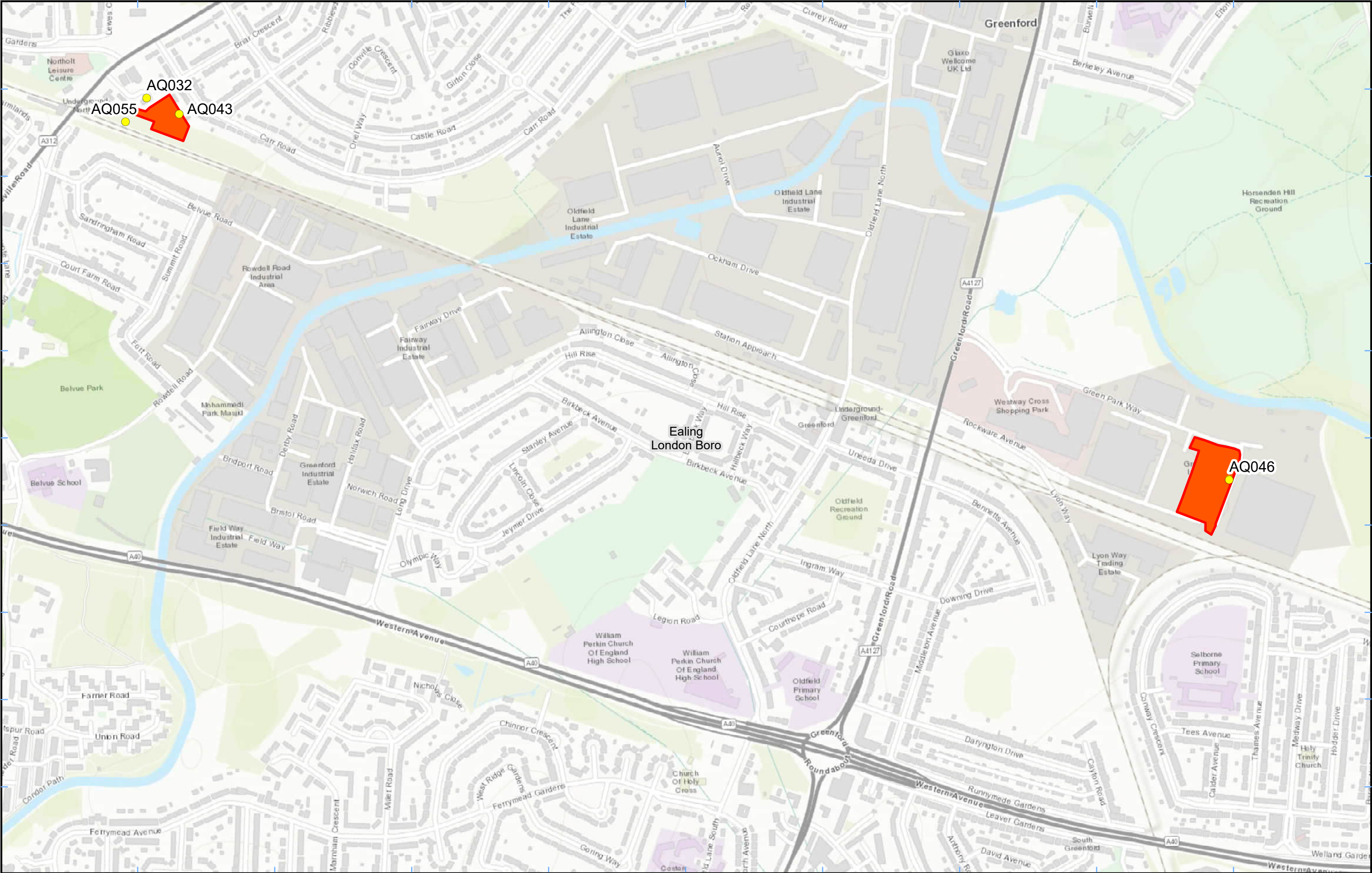
- Vent shaft and headhouse construction.

- 1.1.5 Nineteen (19) 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 4. 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 (June 2026).
- 1.1.9 Data capture was below 90% at monitors AQ023 (25.0%) and AQ027 (25.3%) due to power-related issues, with the issue at AQ023 still under investigation and that at AQ027 now resolved.

- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at six (6) locations around highways within the LBE as part of the management of air quality where significant effects occur as a result of the scheme.
- 1.1.11 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.
- 1.1.12 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2026 running mean.
- 1.1.13 There were no (0) complaints received during the reporting period (June 2026).

Appendix A – Worksites and Monitoring Locations

Figures 1 to 3: Worksites and Monitoring Locations within the LBE



Legend

Dust Monitor District Borough Unitary Boundaries

Worksite

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

**Worksite & Monitoring Locations
In LBE (Sheet 1)**

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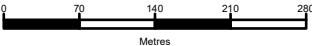
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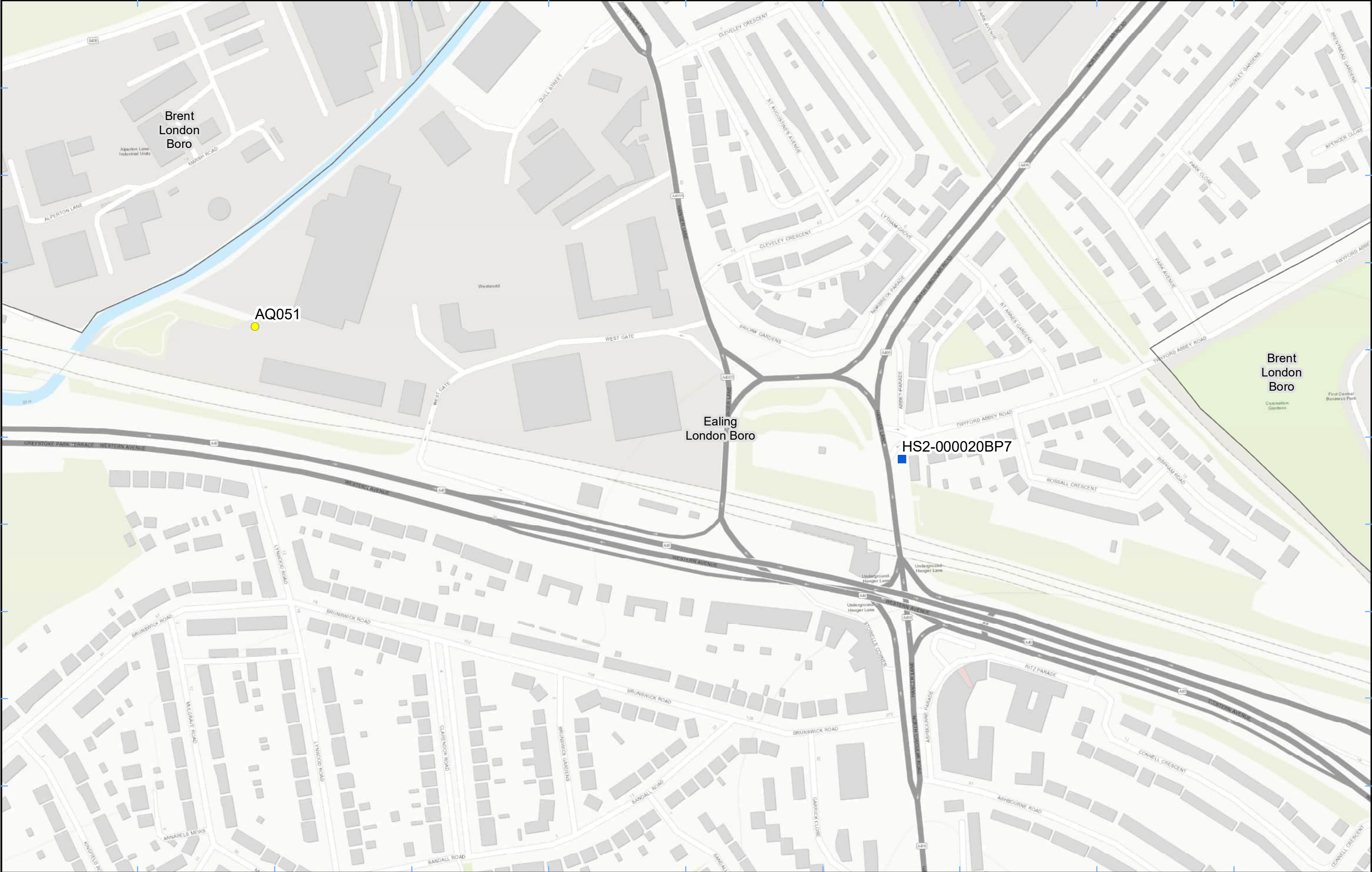
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Scale at A3: 1:7,000



Date: 18/05/23



- Legend**
-  Diffusion Tube
 -  Dust Monitor
 -  District Borough Unitary Boundaries

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Map Number

Map Name

Monitoring Locations
In LBE (Sheet 2)

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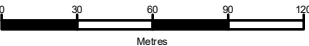
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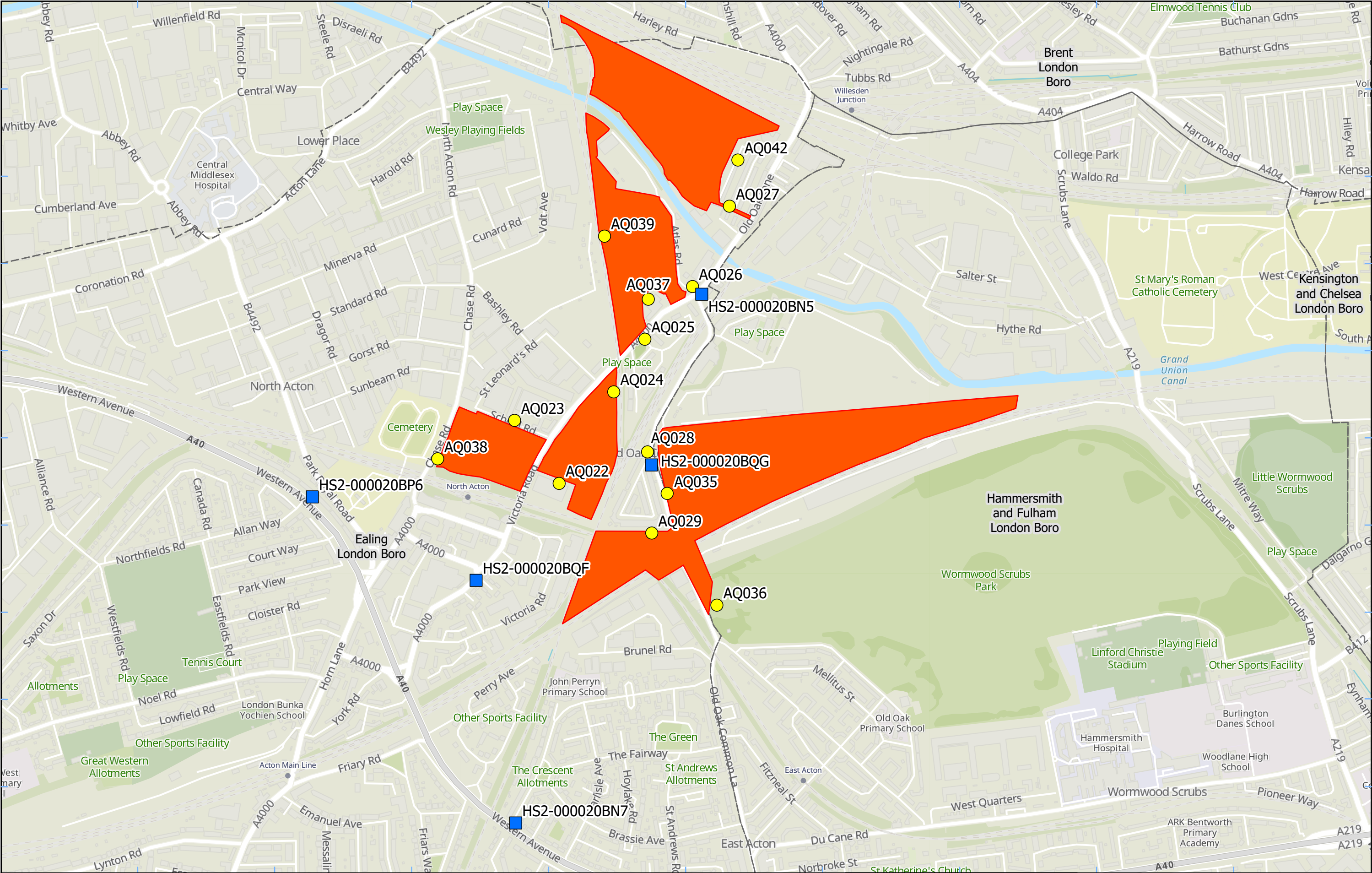
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Date: 26/04/22



Legend

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

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Map Number

Map Name

**Worksite and Monitoring Locations
In LBE (Sheet 3)**

London Borough of Ealing



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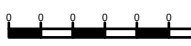
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Metres

Date: 06/02/25

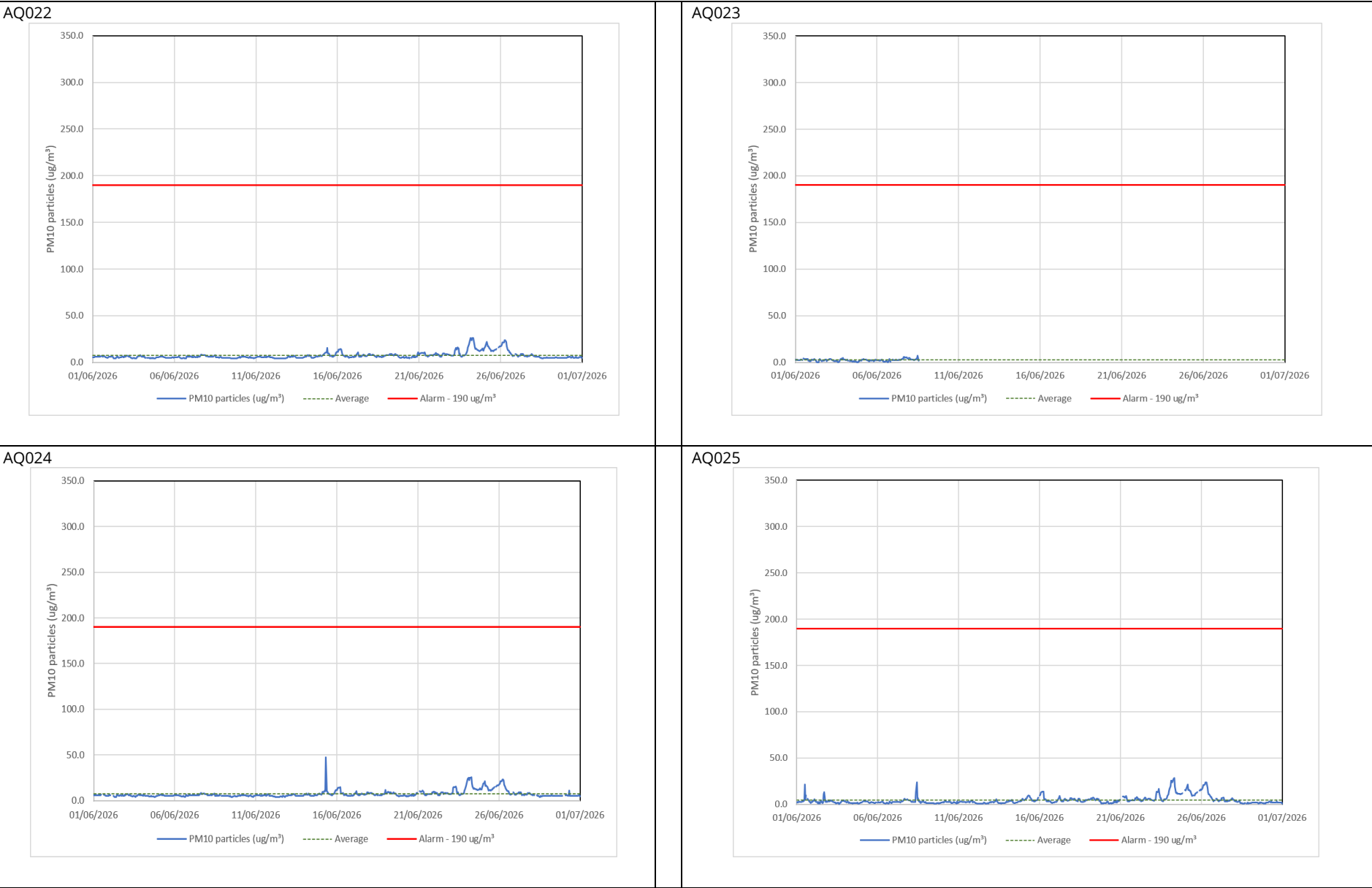
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

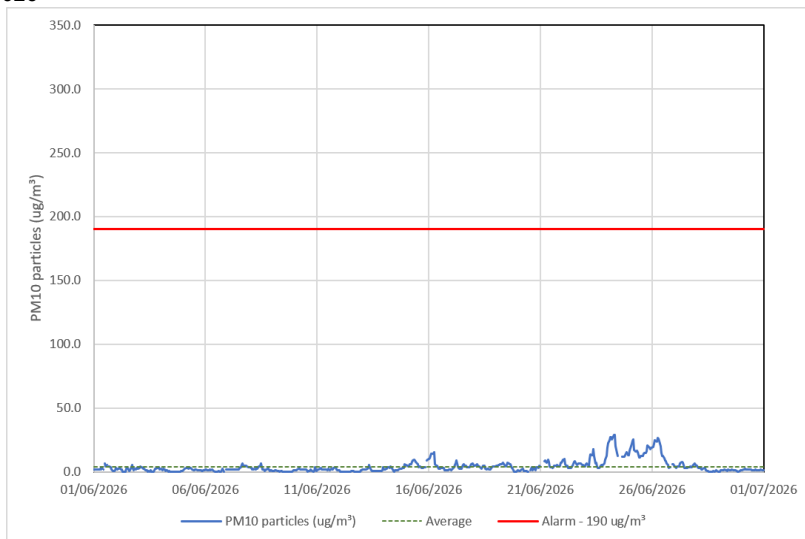
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ022	521072, 181985	Boden House	M	Yes	N	7.3	4.0	26.2	0	99.3
AQ023	520956, 182149	School Road	M	Yes	N	2.4	0.1	7.3	0	25.0
AQ024	521214, 182223	Braitrim House	M	Yes	N	7.3	4.0	47.4	0	97.2
AQ025	521295, 182360	Victoria Road	M	Yes	N	4.4	0.1	28.5	0	98.2
AQ026	521419, 182497	Old Oak Lane	M	Yes	N	4.1	0.1	29.2	0	98.3
AQ027	521515, 182706	Channel Gate Road	M	Yes	N	6.1	4.2	9.0	0	25.3
AQ028	521314, 182084	Wells House Road	M	Yes	N	17.7	1.9	109.5	0	100.0
AQ029	521317, 181856	Site Boundary south of houses on Wells House Road	H	Yes	N	10.6	1.6	57.1	0	93.3
AQ032	513402, 184536	Badminton Close	M	Yes	N	7.0	4.0	25.5	0	98.9
AQ035	521354, 181956	Old Oak Common	H	Yes	N	15.8	1.5	103.6	0	100.0

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 (%)
AQ036	521482, 181668	Old Oak Common Lane	M	Yes	N	13.9	2.1	45.1	0	100.0
AQ037	521304, 182464	Atlas Road	M	Yes	N	1.5	0.1	14.2	0	99.6
AQ038	520756, 182049	Chase Road	M	Yes	N	7.2	4.0	24.8	0	99.6
AQ039	521190, 182628	Atlas Road 2	M	Yes	N	5.3	4.0	21.6	0	99.2
AQ042	521537, 182826	Stephenson Road	M	Yes	N	3.7	0.1	45.0	0	99.4
AQ043	513468, 184504	Mandeville Road	M	Yes	N	12.1	1.4	61.5	0	100.0
AQ046	515593, 183764	Green Park Way	M	Yes	N	14.4	1.4	90.3	0	100.0
AQ051	517976, 182823	Westgate	M	Yes	N	14.8	2.4	82.5	0	100.0
AQ055	513359, 184488	Mandeville Road 2	M	Yes	N	13.2	2.1	62.4	0	100.0

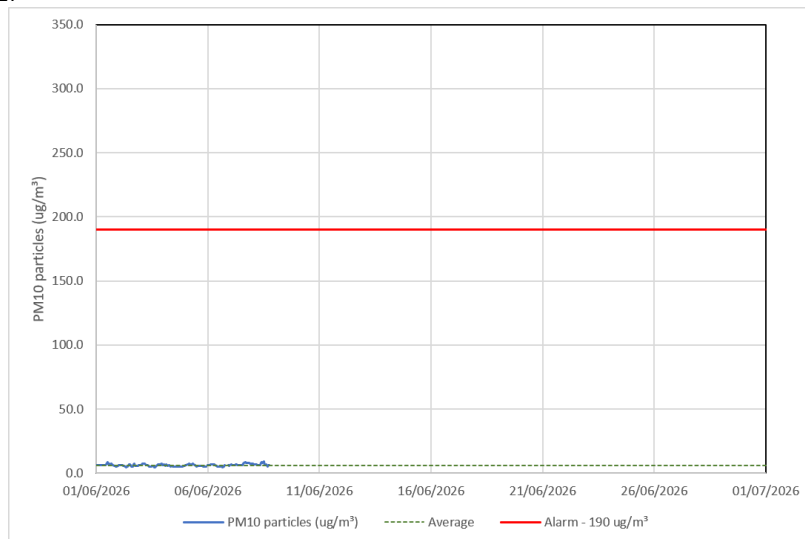
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



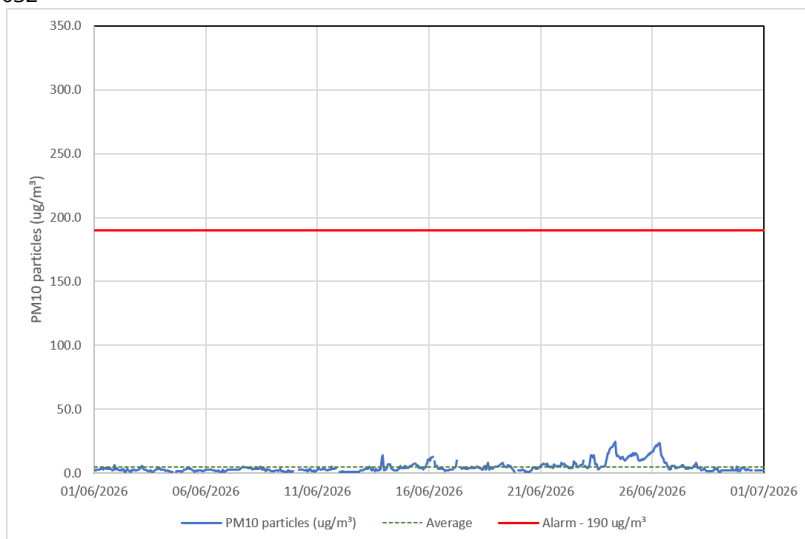
AQ026



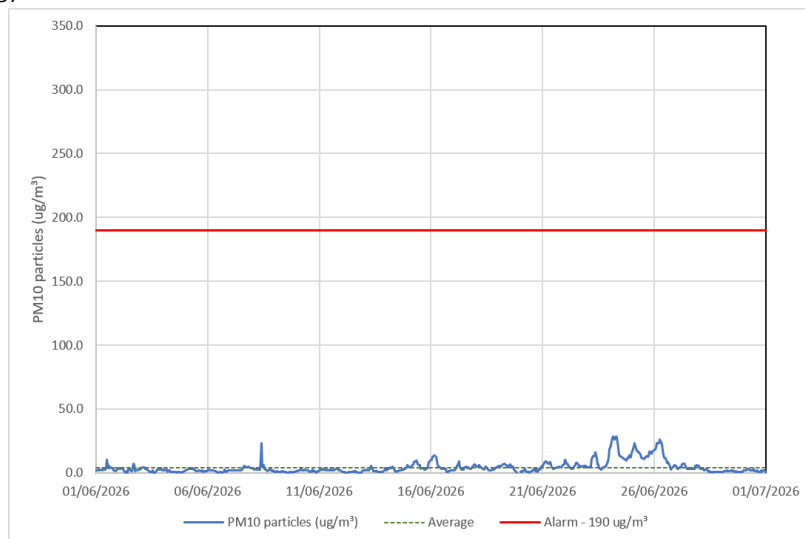
AQ027



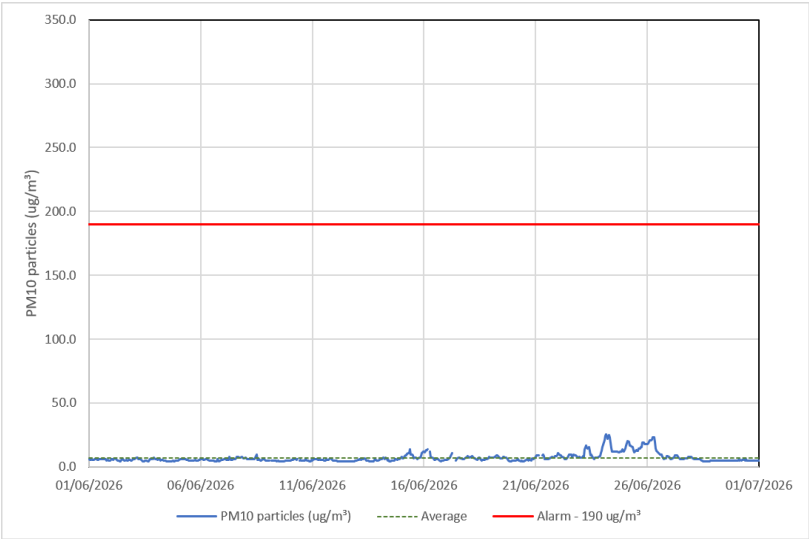
AQ032



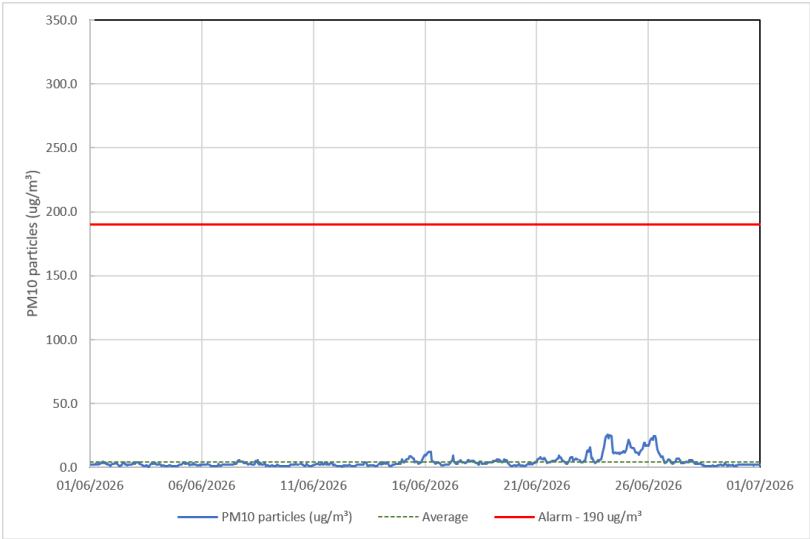
AQ037



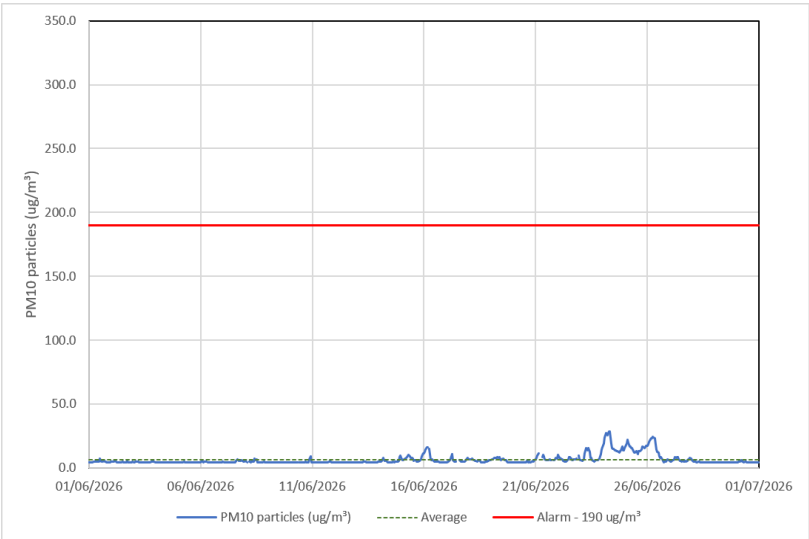
AQ038



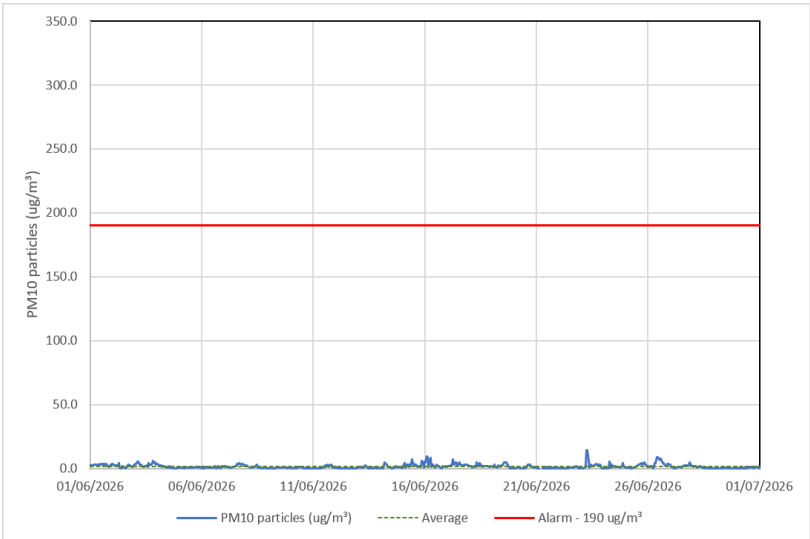
AQ039



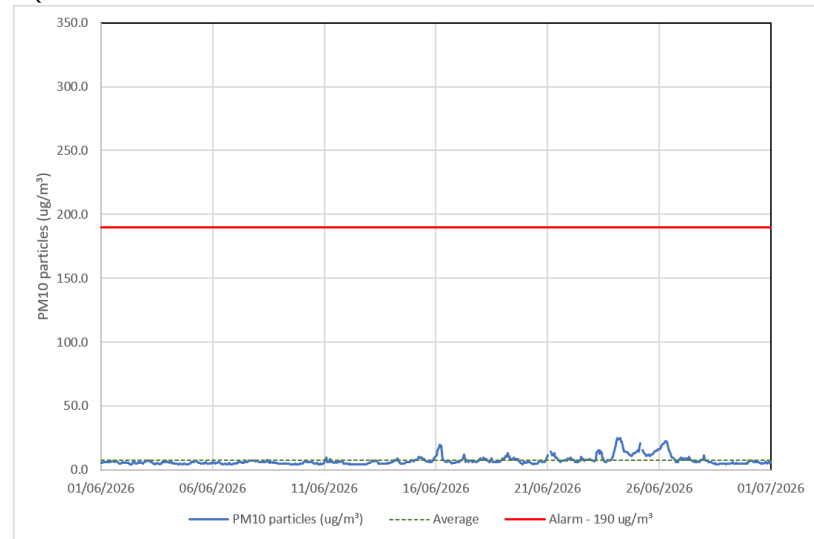
AQ042



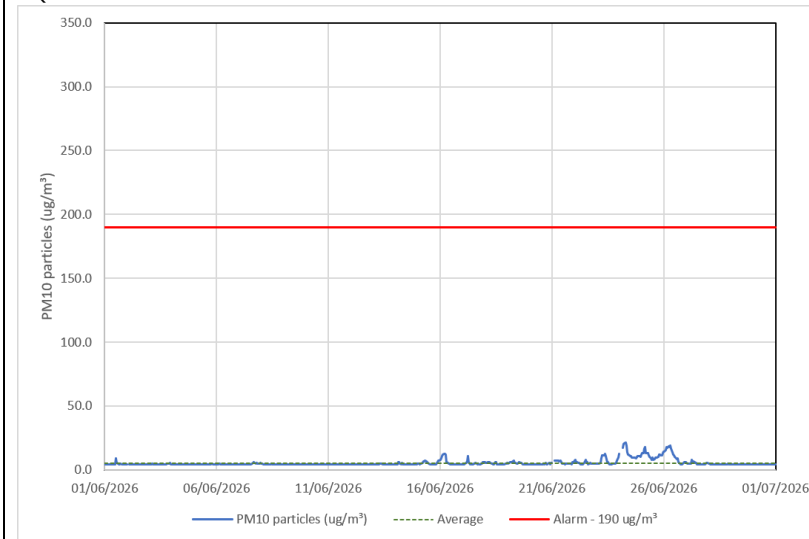
AQ043



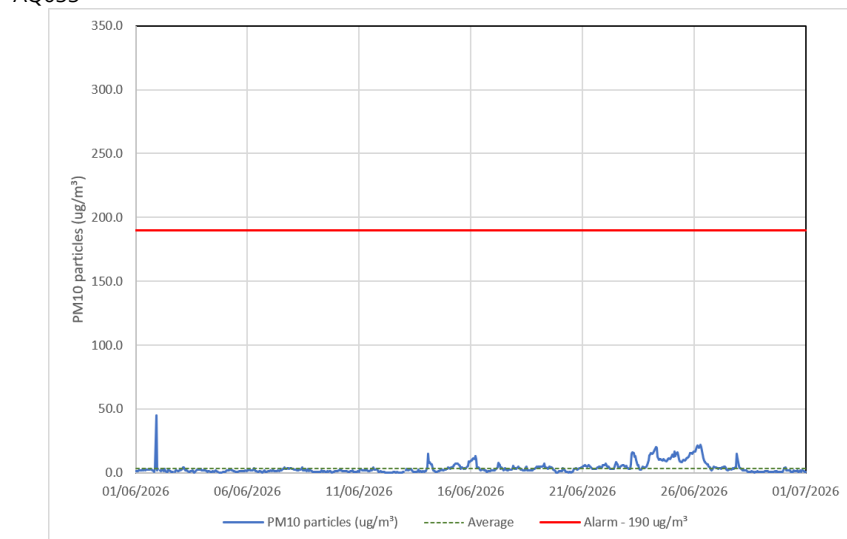
AQ046



AQ051



AQ055



Appendix C – Air Quality Monitoring Results

Table 2: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2026 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BN5	Sign post on Victoria Road	521443, 182477	37	21	35	27	27								29
HS2-000020BN7	The Approach street sign	520959, 181102	31	39	36	27	36								34
HS2-000020BQF	Conway Drive sign post	520856, 181733	29	35	30	Tube Missing	35								32
HS2-000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	42	37	Tube Missing	27	28								33
HS2-000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	36	34	29	22	31								30
HS2-000020BP7	Triplicate site next to the Ealing, Hangar Lane Gyratory roadside automatic monitoring station	518537, 182708	50	47	45	41	49								46

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.