

Air Quality and Dust Monitoring Monthly Report – May 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.

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.

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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 April 2026 and May 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 activities including movement of plant and survey works, steel fixing and general carpentry works, concrete works including scabbling and local concrete breaking, blockwork, backfilling, road sweeping, utility works, demolition of the abutment wall, ramp construction, MEPH works and attenuation tank works were underway.
- Station Box: Steel fixing, general carpentry, concrete works, scabbling.
- 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 with a water bowser.
- OOCL: Digging and backfilling, excavations, excavating and laying pipe, pipe welding and wrapping, ground anchor works, SSN duct excavations and service transfer, muck away and loading lorries, breaking concrete using a hydraulic breaker and a 35T digger, ramp formation.
- MEPH: Installing Unistrut uprights (Platforms 11 and 12) and Unistrut wall levelling (Platform 14), installation of modules on Platform 10, prefabricated modules and cutting clips, moving VCBs, cutting and grooving pipe, CMS cutting, joining and snagging.

- Blockwork: building blockwork (SAB and west core), ongoing block wall construction, blockwork in SAB rooms.
- Attenuation Tank: Material moving, loading and unloading in AD05, and AD03/09, piling and plant movement.

Victoria Road Crossover Box and Flat Iron Site

- Crossover Box construction,
- Vent Shaft construction
- Tunnelling preparation, and
- Materials management.

Willesden Euro Terminal

- Tunnelling arisings management and onward removal by rail.

Atlas Road

- Segment storage and tunnelling support.

Green Park Way Vent Shaft

- Vent shaft construction, and materials management.

Mandeville Road Vent Shaft

- Vent shaft construction and materials management.

Westgate Vent Shaft

- Vent shaft and headhouse construction, and materials management.

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.

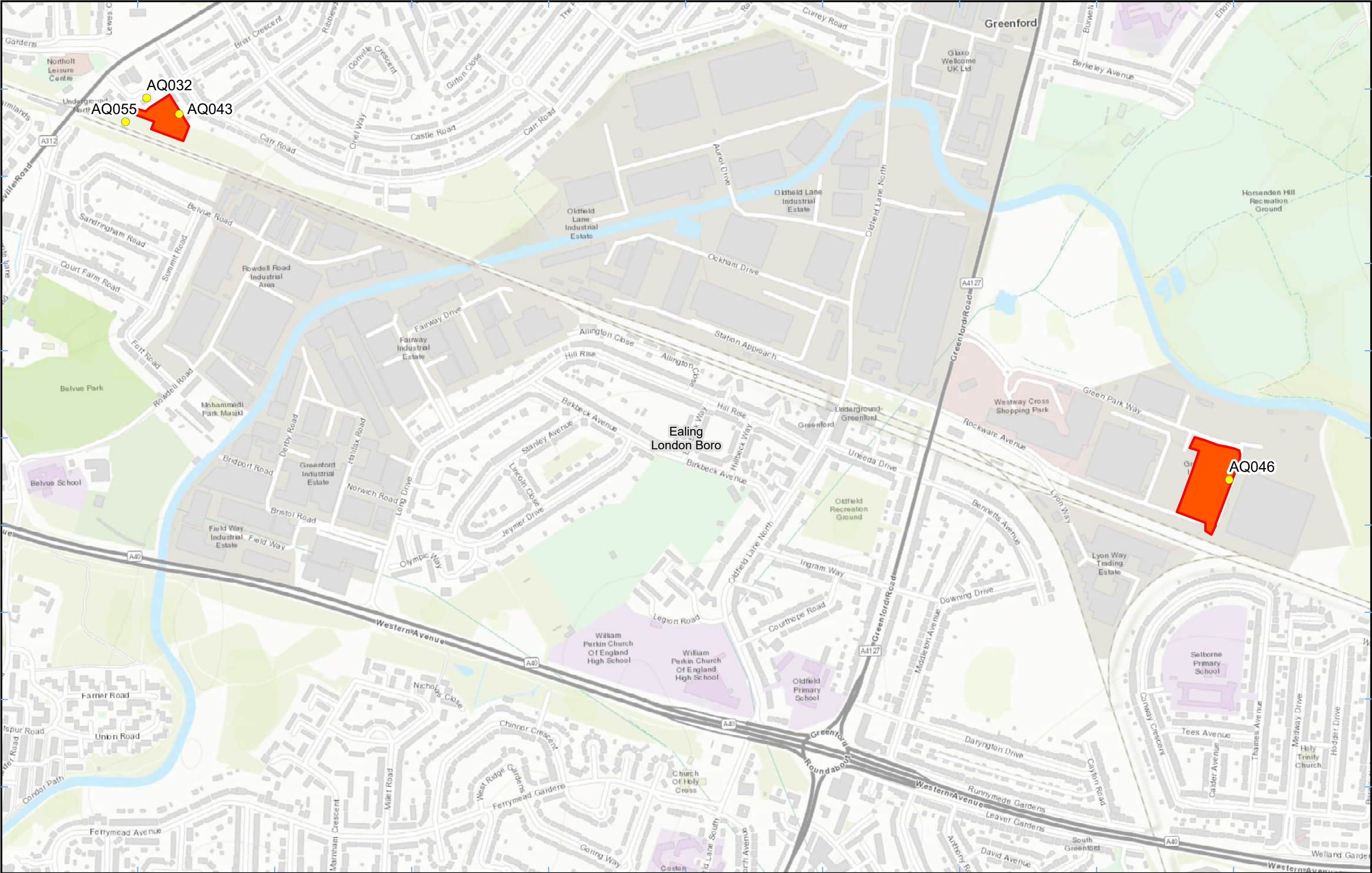
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for AQ035 due to a technical issue with the monitor between 23rd May and 27th May. This has since been 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 3, together with the 2026 running mean.
- 1.1.13 There were no (0) complaints received during the reporting period (May 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)**

London Borough of Ealing



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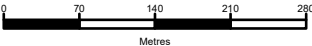
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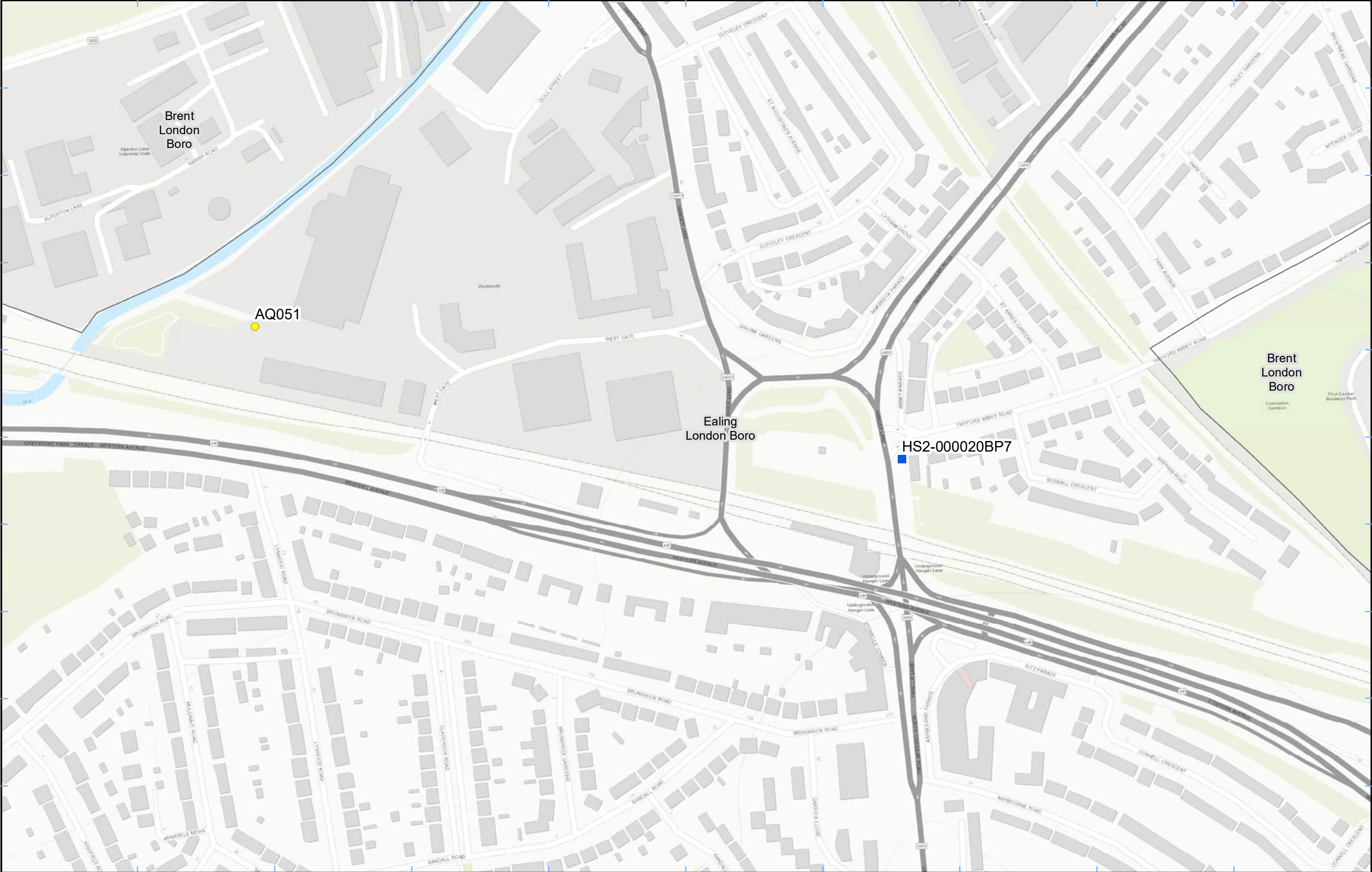
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Scale at A3: 1:7,000



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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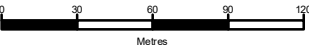
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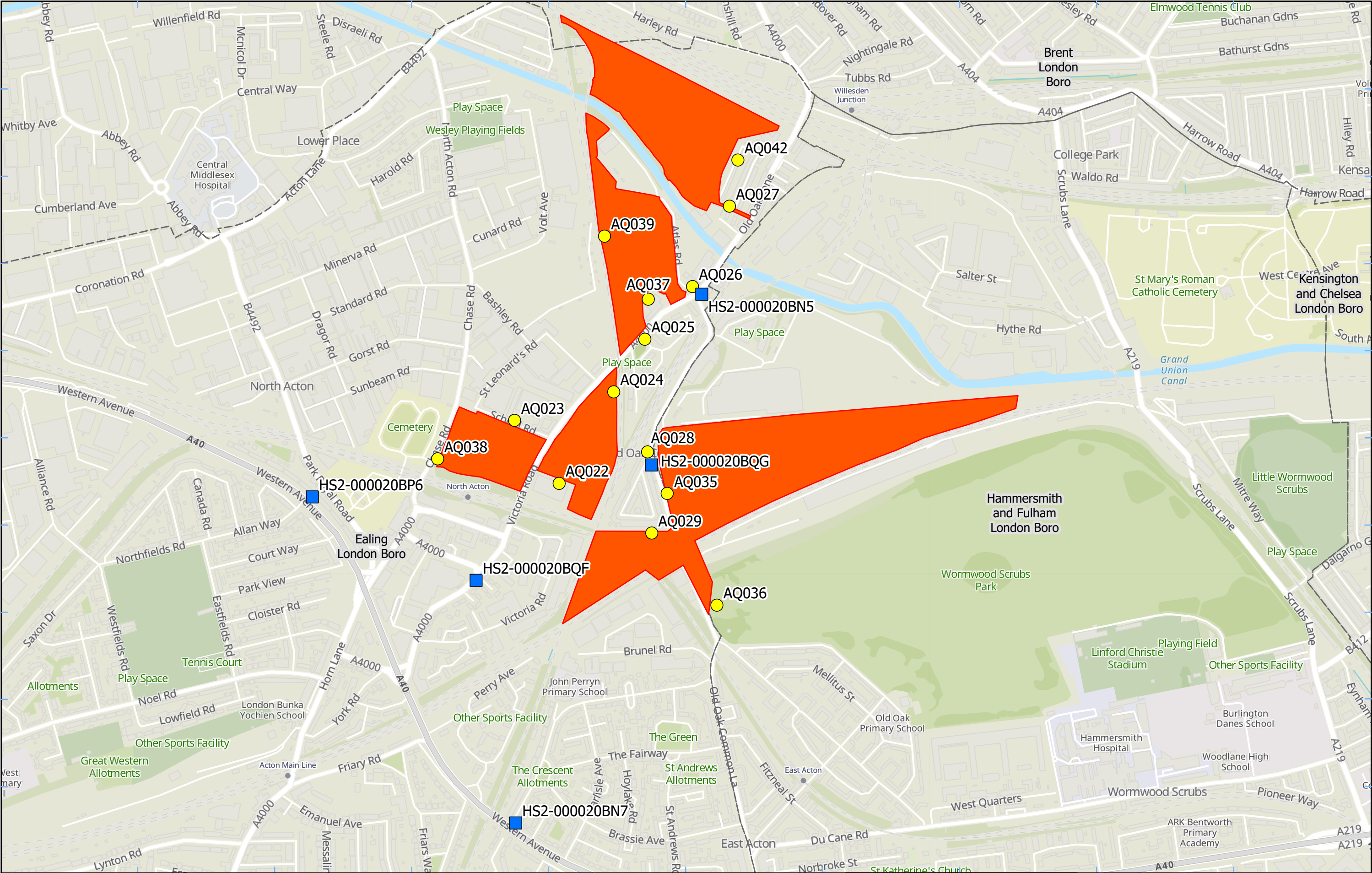
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Date: 26/04/22



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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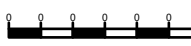
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Metres

Date: 06/02/25

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

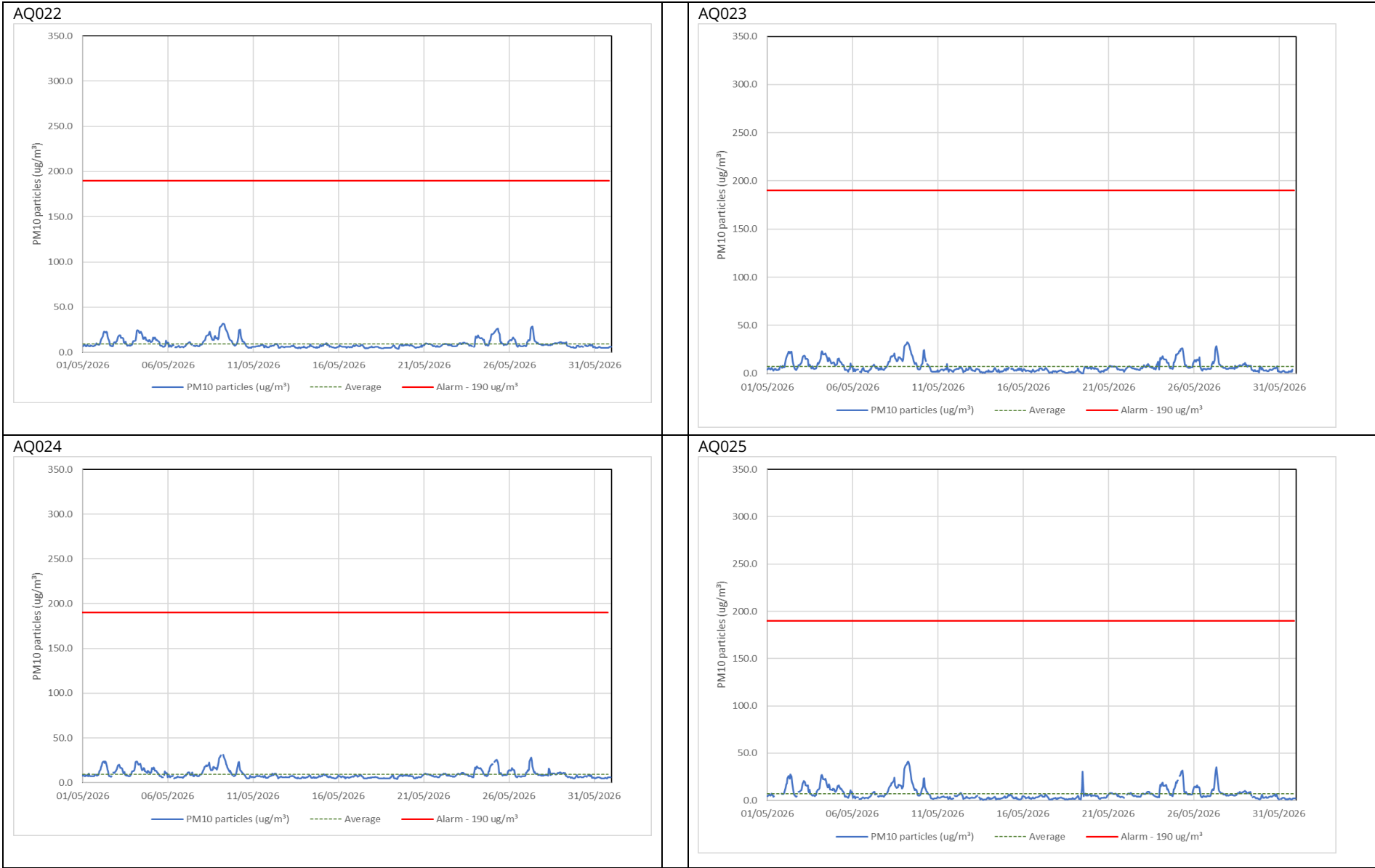
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ022	521072, 181985	Boden House	M	Yes	N	9.5	4.0	31.6	0	99.5
AQ023	520956, 182149	School Road	M	Yes	N	7.1	0.2	32.4	0	99.3
AQ024	521214, 182223	Braitrim House	M	Yes	N	9.5	4.0	31.0	0	98.8
AQ025	521295, 182360	Victoria Road	M	Yes	N	7.4	0.3	41.0	0	97.3
AQ026	521419, 182497	Old Oak Lane	M	Yes	N	7.1	0.1	35.3	0	97.7
AQ027	521515, 182706	Channel Gate Road	M	Yes	N	9.4	5.0	30.0	0	100.0
AQ028	521302, 182067	Wells House Road	M	Yes	N	18.3	2.9	226.2	1	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	N	14.1	2.4	83.0	0	96.5
AQ032	513402, 184536	Badminton Close	M	Yes	N	7.6	1.0	34.3	0	99.1
AQ035	521353, 181959	Old Oak Common	H	Yes	N	19.4	2.9	117.3	0	87.9
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	N	13.7	2.6	71.0	0	100.0
AQ037	521304, 182464	Atlas Road	M	Yes	N	7.2	0.3	37.0	0	99.2

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 (%)
AQ038	520756, 182049	Chase Road	M	Yes	N	9.1	4.0	29.7	0	98.5
AQ039	521190, 182628	Atlas Road 2	M	Yes	N	6.7	0.8	31.8	0	99.2
AQ042	521537, 182826	Stephenson Road	M	Yes	N	8.8	4.0	40.0	0	99.3
AQ043	513468, 184504	Mandeville Road	M	Yes	N	5.1	0.1	34.2	0	92.1
AQ046	515593, 183764	Green Park Way	M	Yes	N	9.7	4.0	37.5	0	98.1
AQ051	517976, 182823	Westgate	M	Yes	N	6.9	4.0	28.0	0	100.0
AQ055	513359, 184488	Mandeville Road 2	M	Yes	N	6.5	0.1	37.8	0	99.2

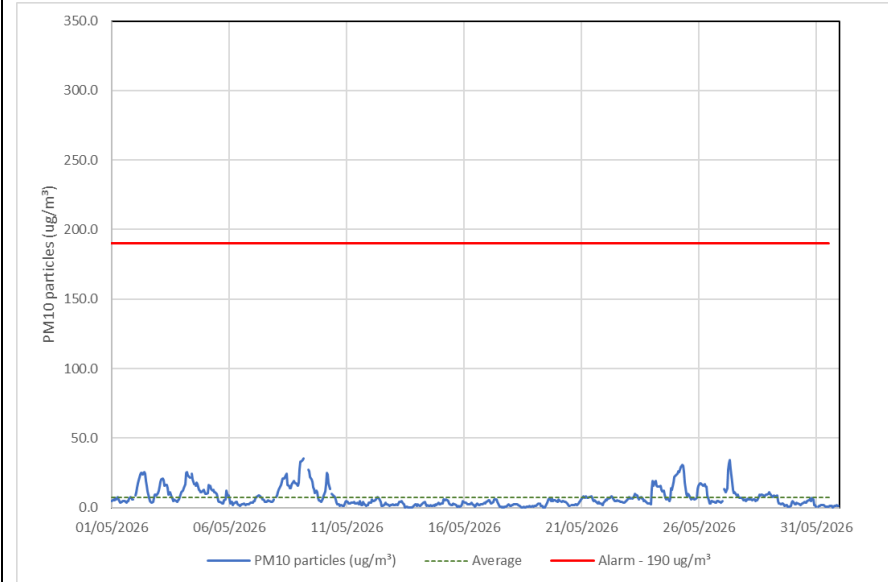
Table 2: Summary of exceedances during period (May 2026)

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ028	05/05/2026 15:01 – 16:00; 226.2 µg/m ³	An investigation determined that various site activities were being undertaken in close proximity to the dust monitor. These site activities involved the breaking out of concrete to install back-to-back service connections on the distribution main.	The acoustic tent was in place and dust suppression measures were implemented during the works. A hand breaker was being used, and the elevated concentrations may have been influenced by the compressor operating or idling near the monitor. All operatives were re-briefed of dust suppression procedures. The team was instructed to increase dust suppression efforts and to take additional care when the plant is in near proximity to the monitoring equipment. The site team continued to closely monitor measured PM₁₀ levels, though no further exceedances were observed during the day. No complaints were received.

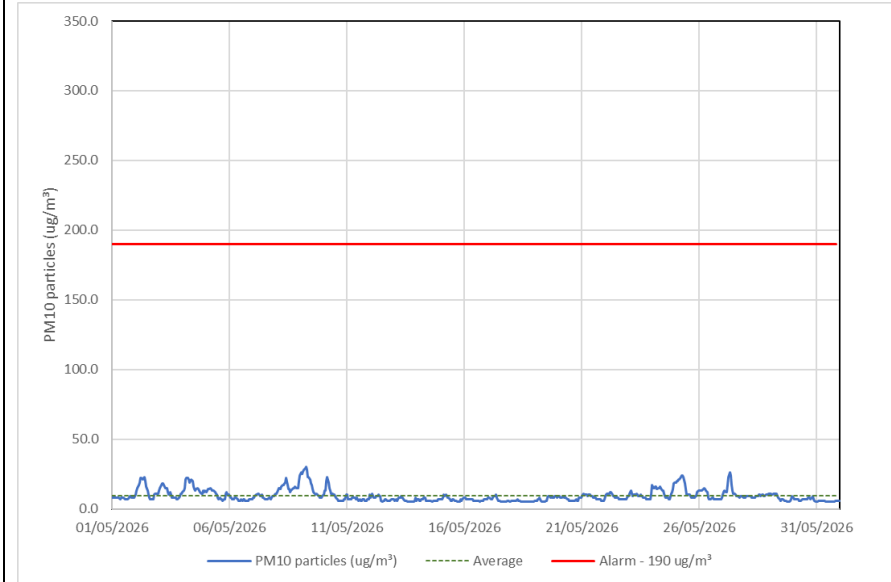
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



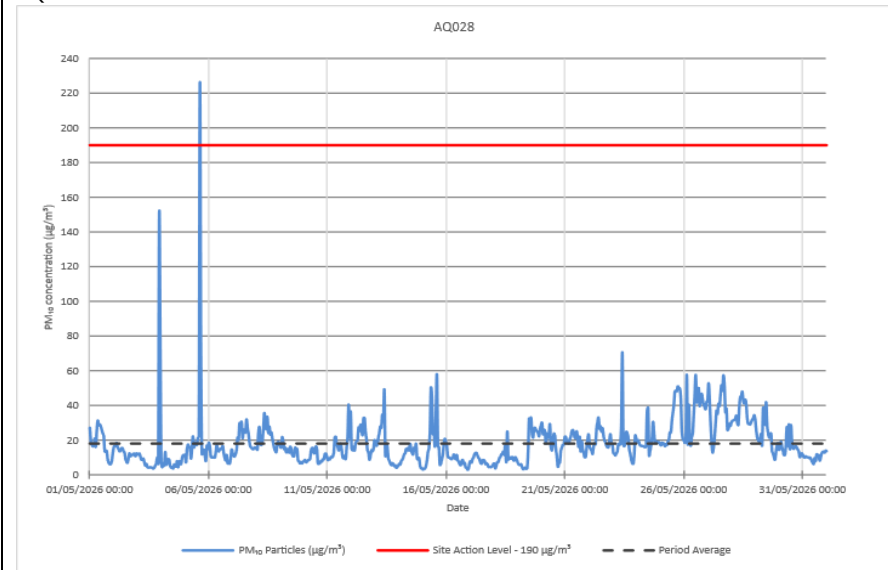
AQ026



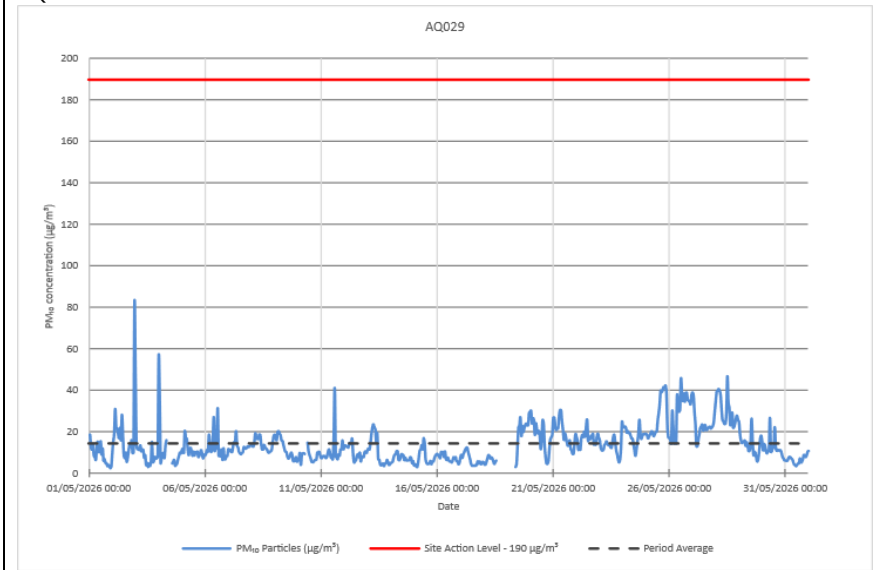
AQ027



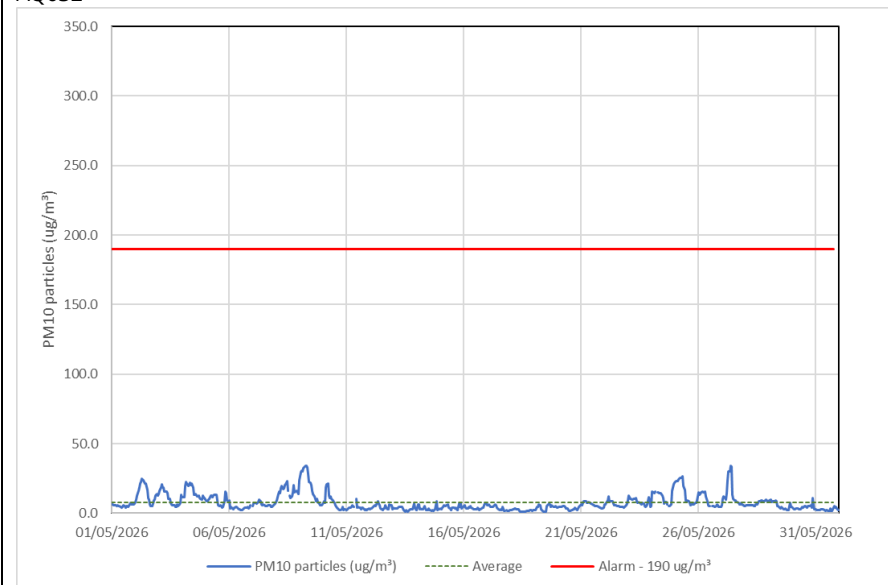
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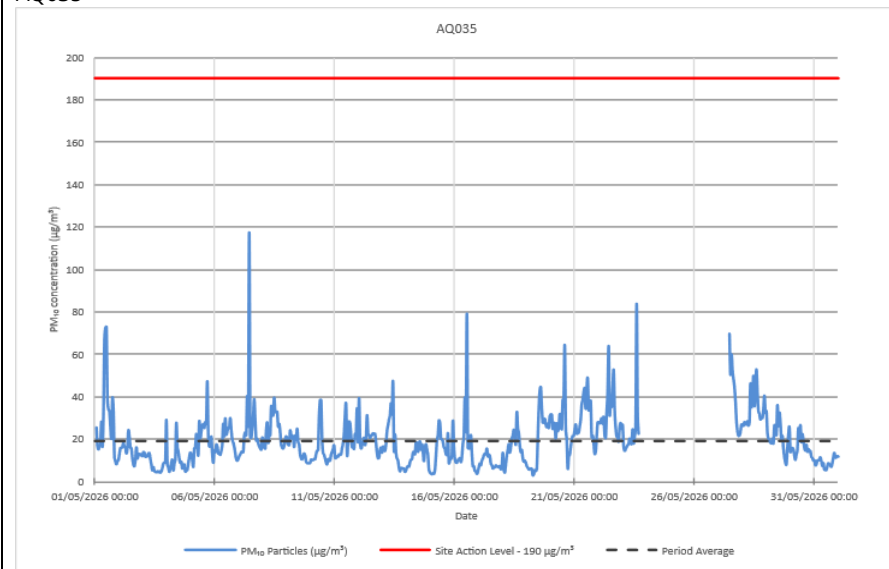
AQ029



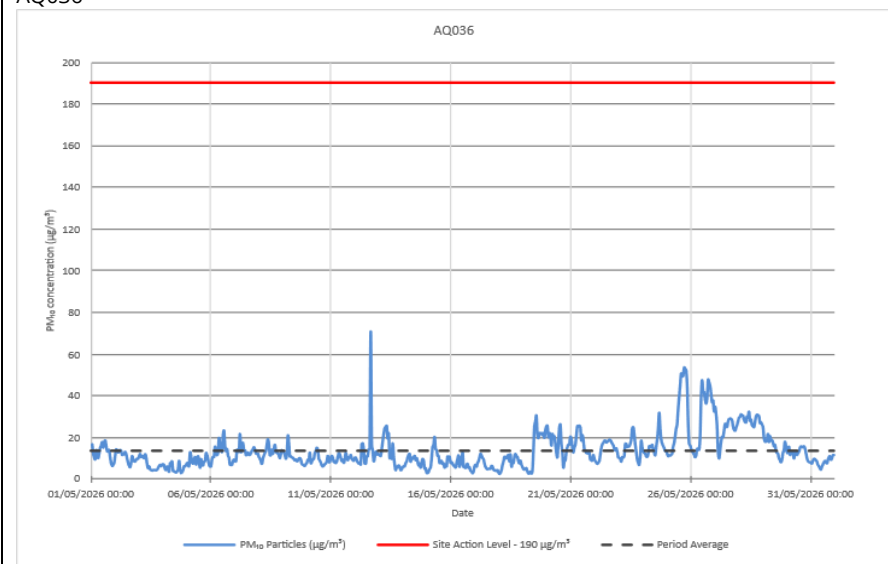
AQ032



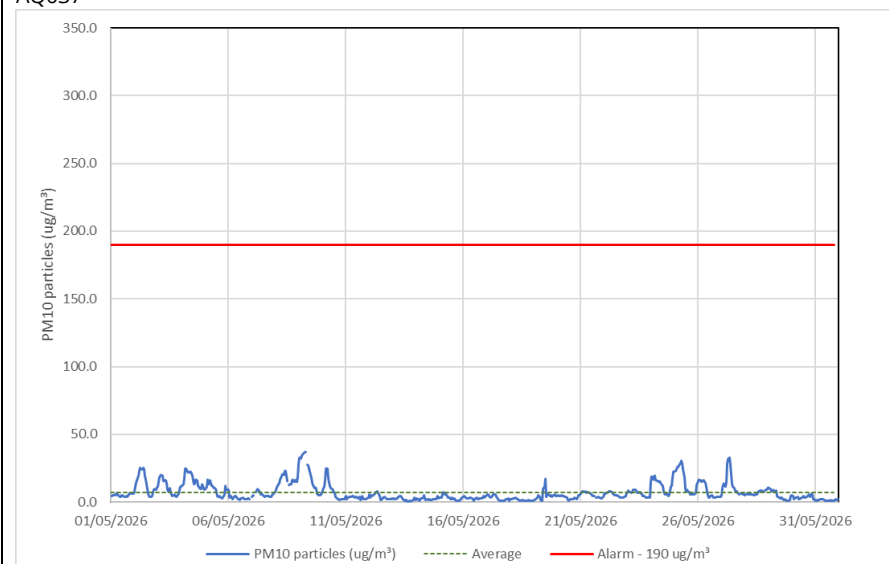
AQ035



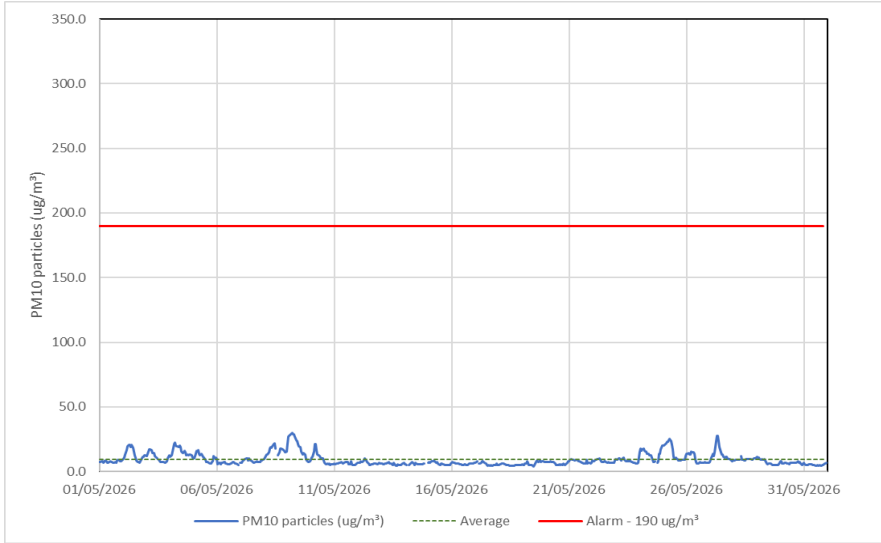
AQ036



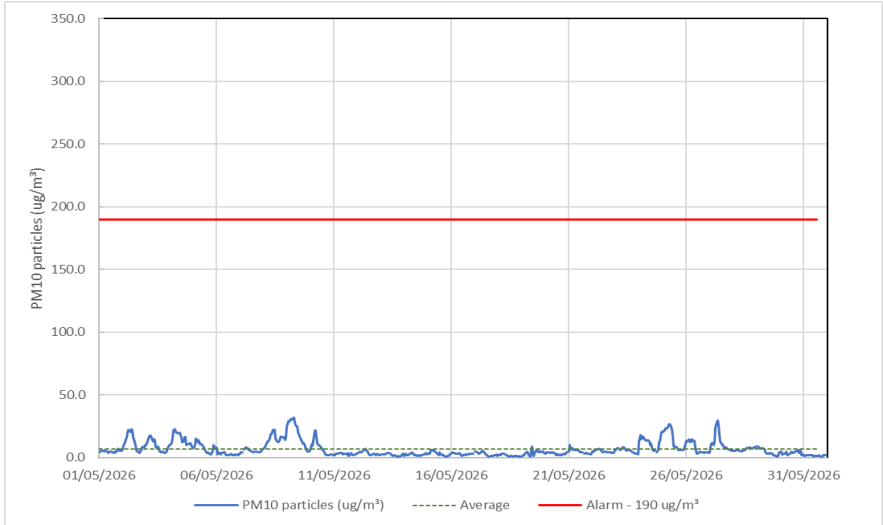
AQ037



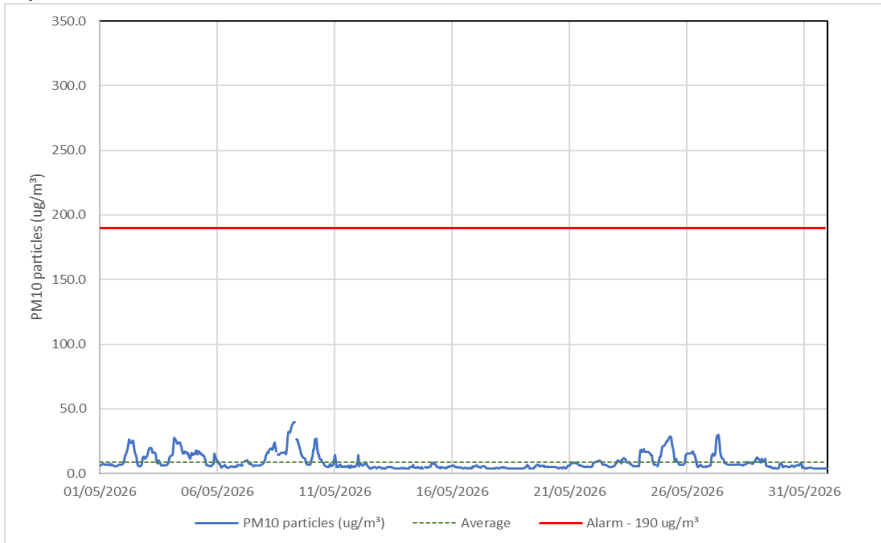
AQ038



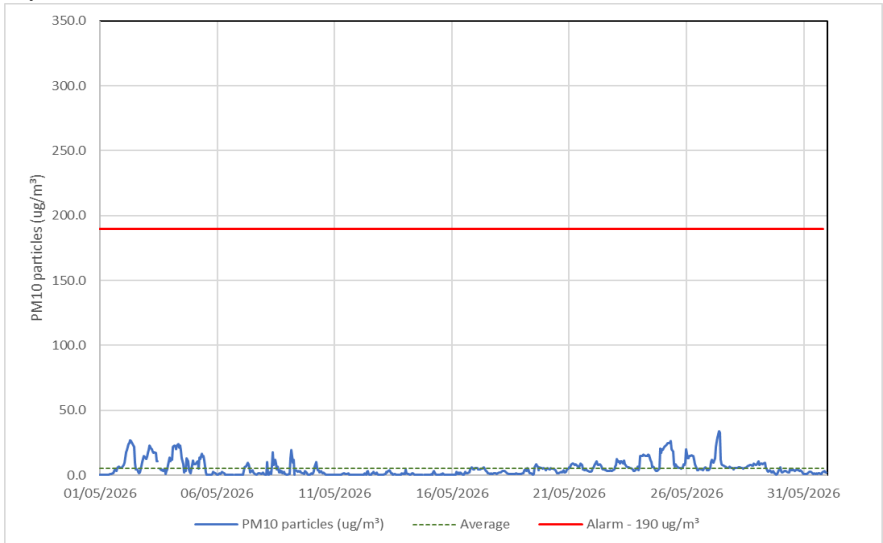
AQ039



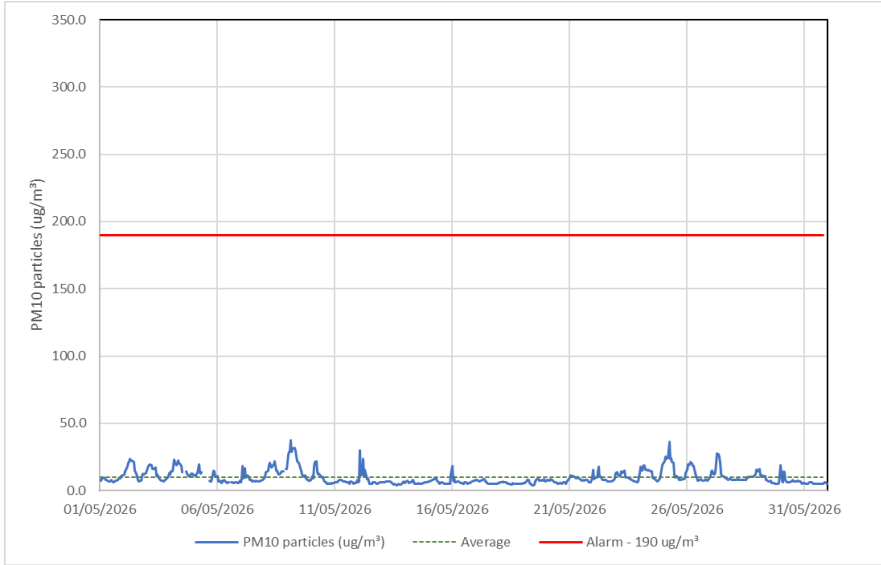
AQ042



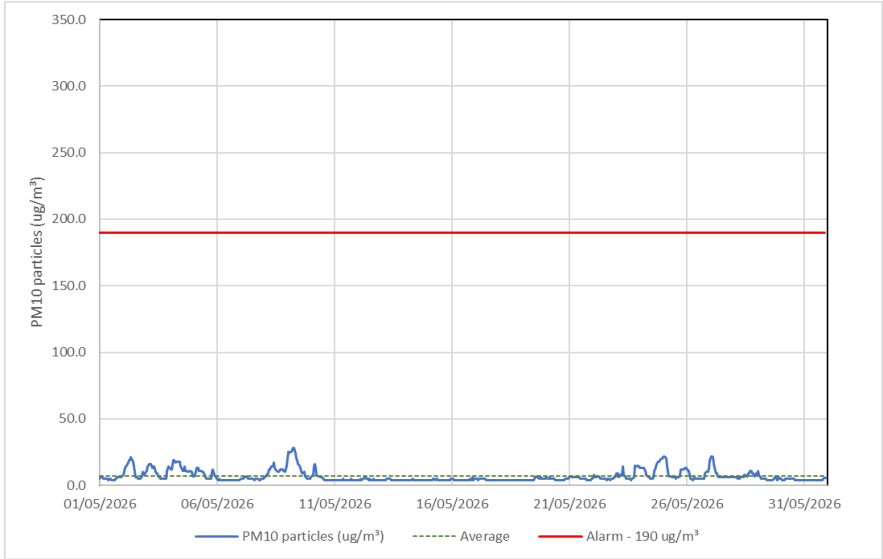
AQ043



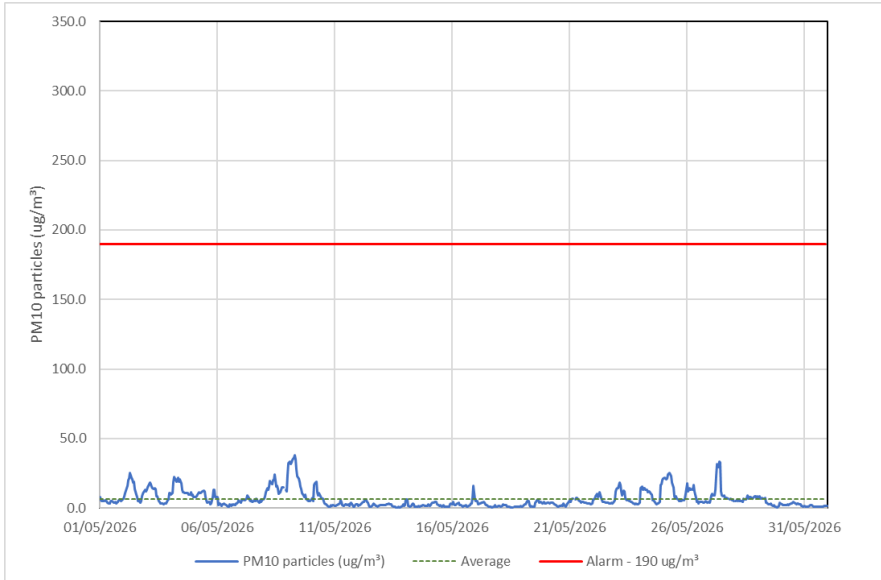
AQ046



AQ051



AQ055



Appendix C – Air Quality Monitoring Results

Table 3: 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									30
HS2-000020BN7	The Approach street sign	520959, 181102	31	39	36	27									33
HS2-000020BQF	Conway Drive sign post	520856, 181733	29	35	30	Tube Missing									31
HS2-000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	42	37	Tube Missing	27									35
HS2-000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	36	34	29	22									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.

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.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BP7	Triplicate site next to the Ealing, Hangar Lane Gyratory roadside automatic monitoring station	518537, 182708	50	47	45	41									46