HS2

August 2026

Air Quality and Dust Monitoring Monthly Report – August 2026

London Borough of Ealing

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Department for Transport

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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 July 2026 and August 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, general site set-up including clearing of site space for digging-related activity, hoarding works (excavation and backfilling, muck away), trial holes, and making arrangements for scaffolding activities.
- Station Box: Steel fixing, formwork assembly (including striking formwork), piling, concrete pours and compaction.
- GWML and SAB: Blockwork in the SAB and central core (GL 30), demobilisation from SAB, muck away and backfill operations, steel fixing, general carpentry, and drainage works.
- Site Haul Roads and Public Roads Adjacent to Site: Cleaning the public roads on Old Oak Common Lane and Wells House Road with a road sweeper.
- OOCL: Excavating for comms ducts using VacEx in North UTX and North UtpZ, installing ducts and chambers (BT and Zayo), roping, brushing, mandrel and swabbing SSEN ducts, CCTV survey SSEN ducts, backfilling SSEN ducts, digging for comms ducts, drainage works and muck shifting, installation of sheet piles and sheet-piling/excavation works, Legato block installation and placing, install of stone, trial holes, and tidying up sites.
- MEPH: Installation of modules on Platform 9, installing modules and pipework within Platform 9, and installing modules within Platform 9 invert (GL 42).
- Blockwork: Blockwork in central core (GL 30) and blockwork removal.

Victoria Road Crossover Box and Flat Iron Site

- Crossover Box construction, Tunnel Boring Machine preparation and materials management conveyor demobilisation.

Willesden Euro Terminal

- Limited excavated material spoil management and onward removal by rail.

Atlas Road

- Conveyor demobilisation and storage.

Green Park Way Vent Shaft

- Vent shaft construction, Tunnel Boring Machine removal and materials management

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 PM_{10} concentrations of 190 µg/m^3, 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 Two (2) dust trigger alerts were recorded during the monitoring period (August 2026).

1.1.9 Data capture for AQ023 and AQ028 was below 90% due to power and airflow issues respectively, both of which have since been resolved.

1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO_2) 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 NO_2 monitoring locations and results are presented in Appendix C, Table 2, together with the 2026 running mean.

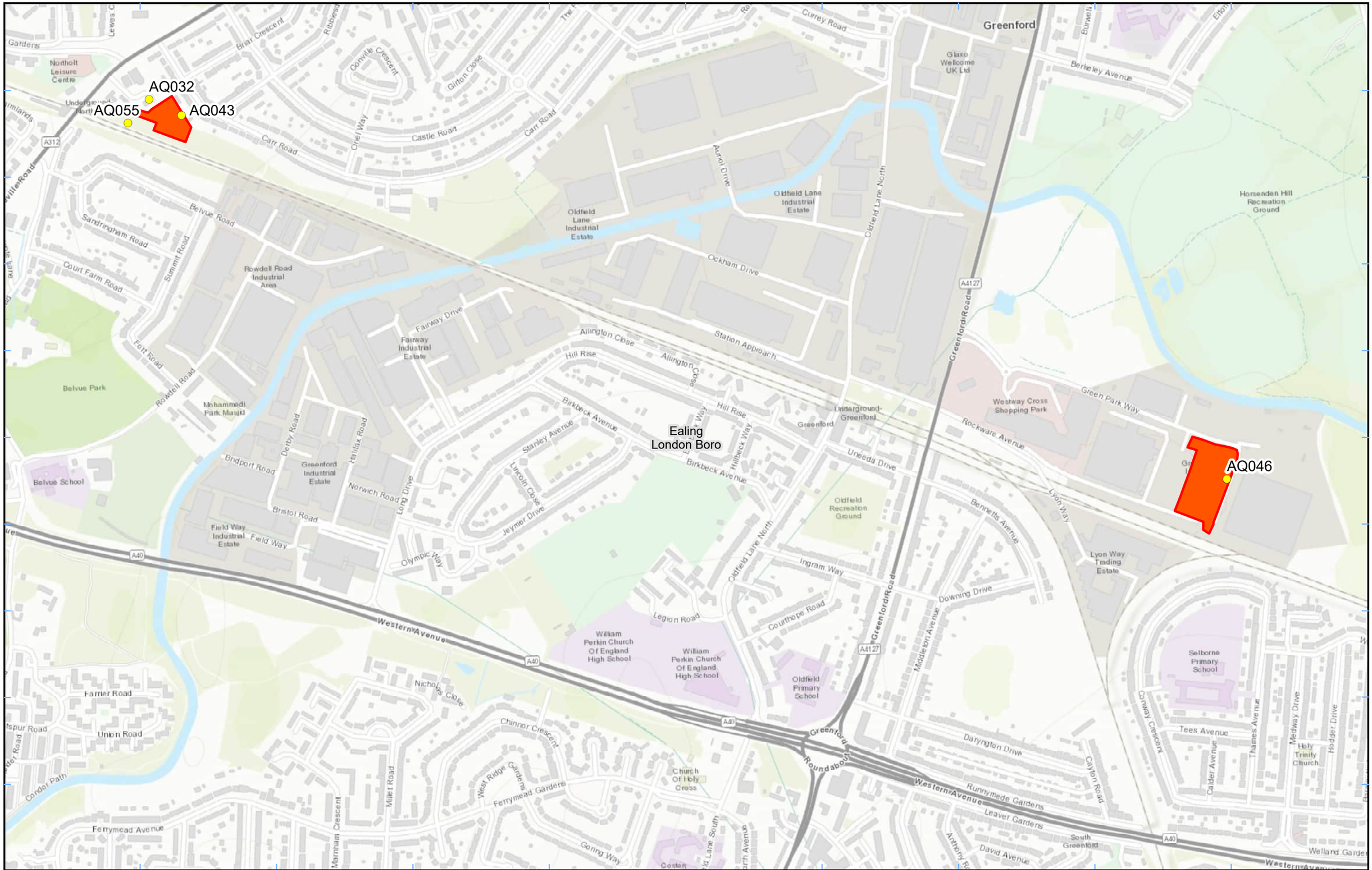
1.1.13 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during August 2026

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-26-47676-C	N/A	Large amounts of dust covering personal property.	Still under investigation at the time of running report.

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

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Map Number

Map Name

Worksite & Monitoring Locations In LBE (Sheet 1)

London Borough of Ealing

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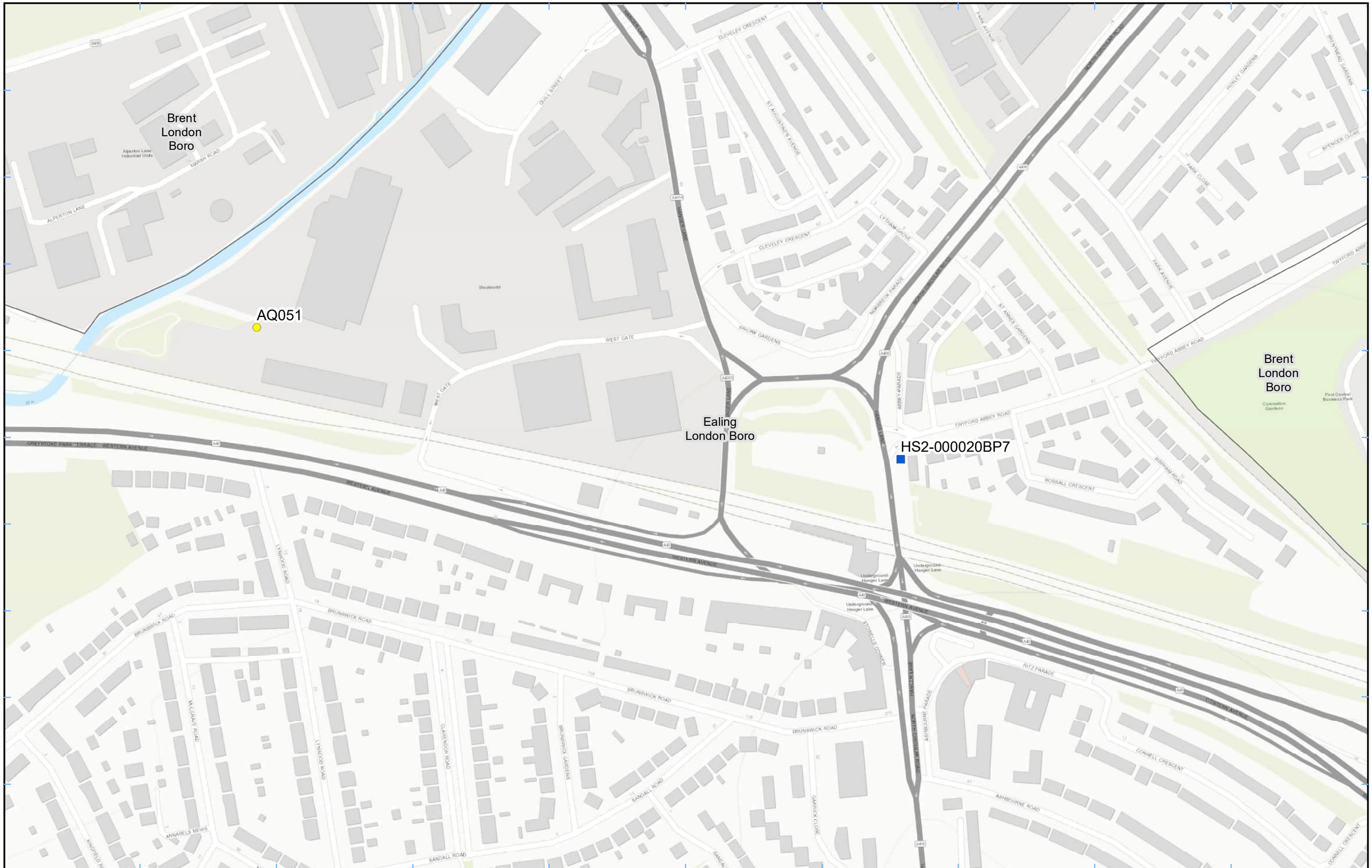
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Scale at A3: 1:7,000

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Metres

Doc Number:

Date: 18/05/23



Legend

- Diffusion Tube
- District Borough Unitary Boundaries
- Dust Monitor

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Map Number

Map Name

Monitoring Locations
In LBE (Sheet 2)

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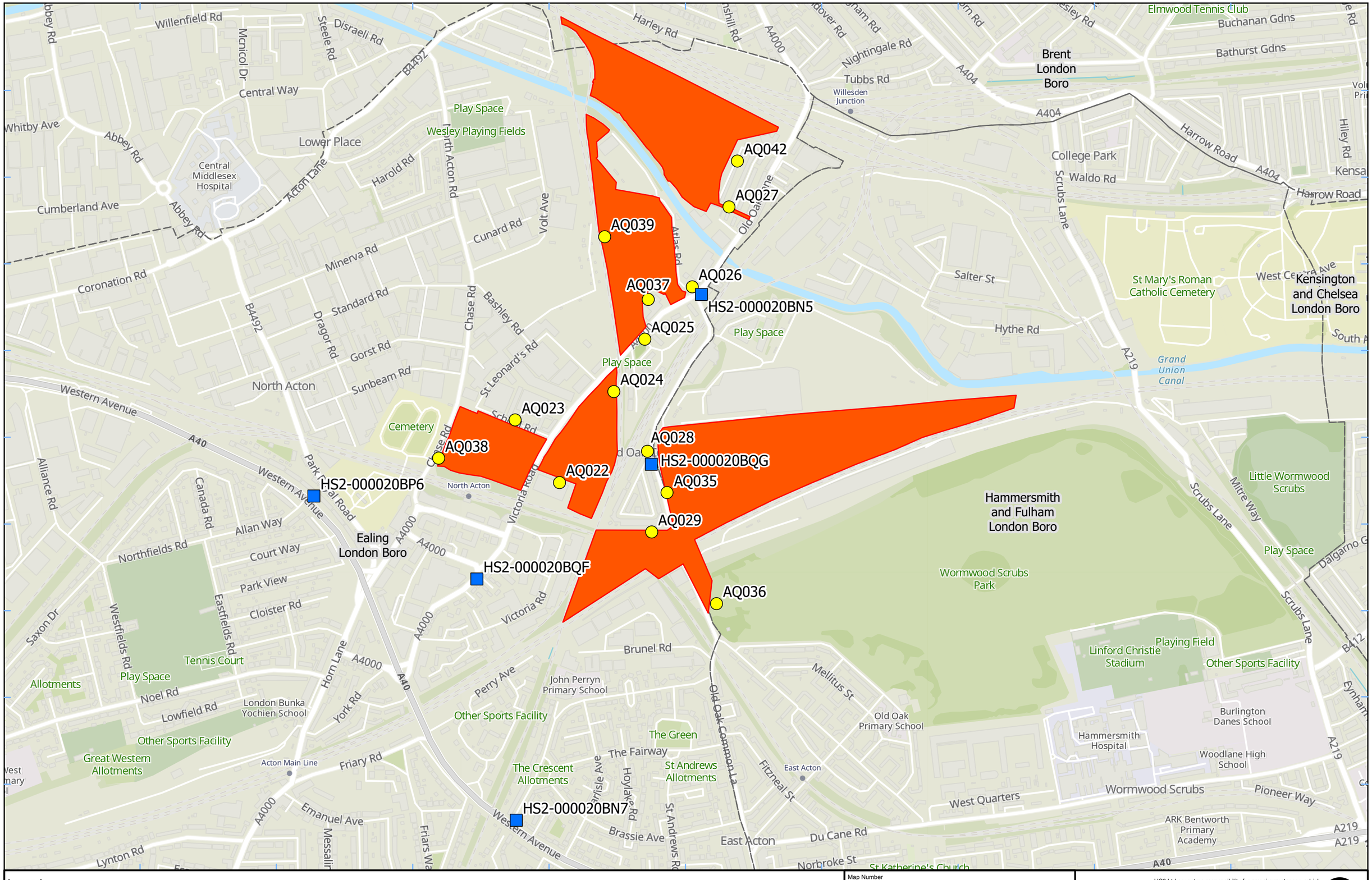
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Legend

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

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Contains data from OS Zoomstack

Map Number

Map Name

Worksite and Monitoring Locations In LBE (Sheet 3)

London Borough of Ealing

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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 ($\mu g/m^3$)	Minimum 1-hour PM_{10} concentration ($\mu g/m^3$)	Maximum 1-hour PM_{10} concentration ($\mu g/m^3$)	Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$	Data capture (%)
AQ022	521072, 181985	Boden House	M	Yes	N	7.1	4.1	25.9	0	98.8
AQ023	520956, 182149	School Road	M	Yes	N	4.3	0.6	26.2	0	40.5
AQ024	521214, 182223	Braitrim House	M	Yes	N	7.2	4.0	44.2	0	99.5
AQ025	521295, 182360	Victoria Road	M	Yes	N	4.1	1.0	28.7	0	98.8
AQ026	521419, 182497	Old Oak Lane	M	Yes	N	3.8	0.1	29.8	0	98.9
AQ027	521515, 182706	Channel Gate Road	M	Yes	N	7.1	4.8	23.4	0	99.3
AQ028	521302, 182067	Wells House Road	M	Yes	No	17.3	2.9	57.2	0	38.0
AQ029	521453, 182132	Old Oak Common	H	Yes	No	10.9	2.6	149.0	0	99.7
AQ032	513402, 184536	Badminton Close	M	Yes	N	4.4	1.0	26.6	0	100.0
AQ035	521353, 181959	Old Oak Common	H	Yes	No	17.0	2.1	352.2	2	100.0
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	No	11.2	1.6	30.9	0	92.1
AQ037	521304, 182464	Atlas Road	M	Yes	N	3.9	0.1	29.3	0	99.9

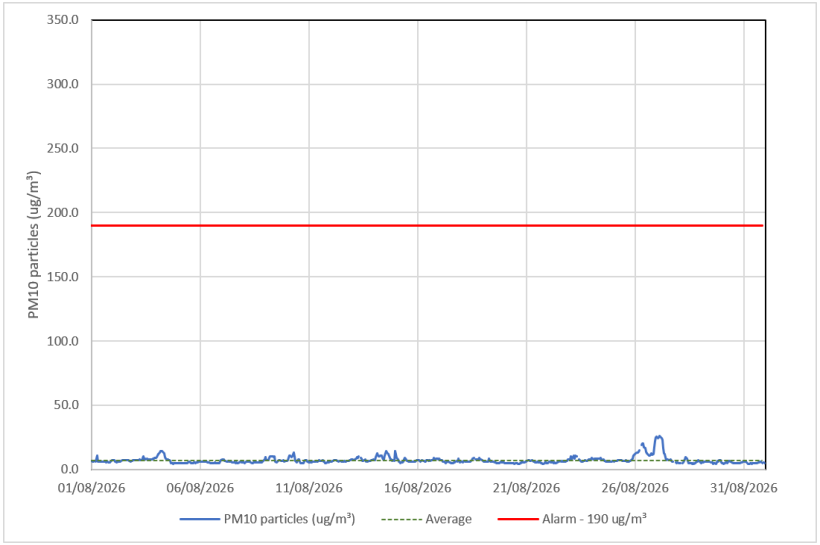
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM_{10} concentration ($\mu g/m^3$)	Minimum 1-hour PM_{10} concentration ($\mu g/m^3$)	Maximum 1-hour PM_{10} concentration ($\mu g/m^3$)	Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$	Data capture (%)
AQ038	520756, 182049	Chase Road	M	Yes	N	7.0	4.0	25.8	0	99.6
AQ039	521190, 182628	Atlas Road 2	M	Yes	N	4.3	1.0	27.4	0	99.5
AQ042	521537, 182826	Stephenson Road	M	Yes	N	6.2	4.0	28.8	0	99.7
AQ043	513468, 184504	Mandeville Road	M	Yes	N	2.4	0.1	23.5	0	98.7
AQ046	515593, 183764	Green Park Way	M	Yes	N	7.0	4.0	24.6	0	99.7
AQ051	517976, 182823	Westgate	M	Yes	N	5.2	4.0	23.1	0	100.0
AQ055	513359, 184488	Mandeville Road 2	M	Yes	N	3.3	0.1	28.5	0	99.3

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

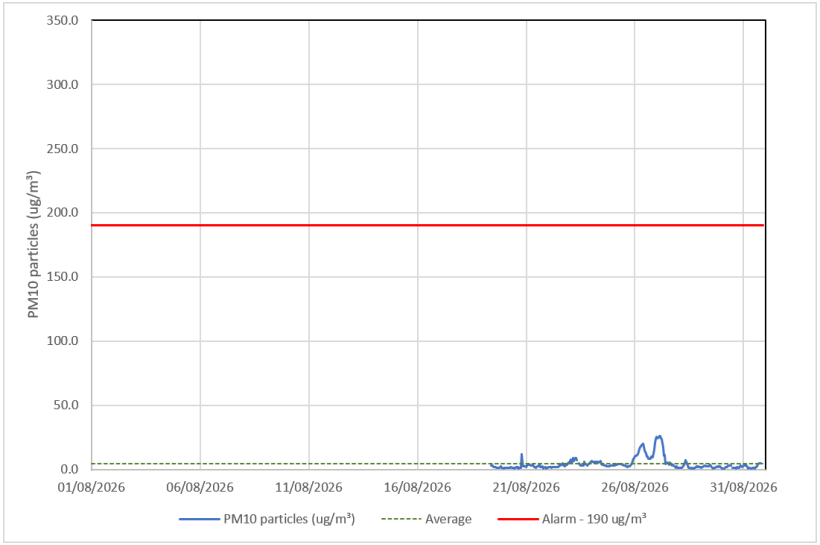
Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ035	04/08/2026 11:01 – 12:00; 352.2 $\mu g/m^3$ 12:01 – 13:00; 270.5 $\mu g/m^3$	An investigation was undertaken following a PM_{10} trigger alert generated by the Osiris monitor (A-TNO3998) at Old Oak Common Location 35. The alert indicated an hourly mean PM_{10} concentration of 352.2 $\mu g/m^3$ recorded at 12:00 on 4th August 2026. Site activities in the vicinity of the monitor were reviewed, together with weather conditions and operational records for the period. Dust-generating activities were being undertaken within the construction area near the monitoring location at the time of the alert, which may have contributed to the elevated particulate concentrations recorded.	Site personnel were reminded of dust management and suppression requirements under the CEMP. Dust-generating activities were reviewed, and additional attention was given to damping down exposed surfaces and monitoring activities undertaken close to sensitive receptors. PM_{10} concentrations continued to be monitored following the alert. No sustained elevated concentrations or further trigger alerts were recorded during the reporting period. No complaints relating to dust were received.

Figure 4: Construction dust 1-hour mean indicative PM_{10} concentration for all dust monitors

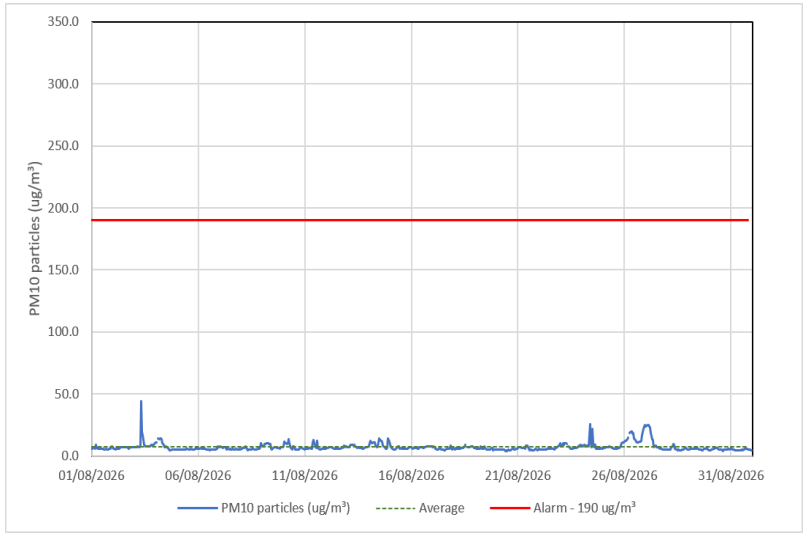
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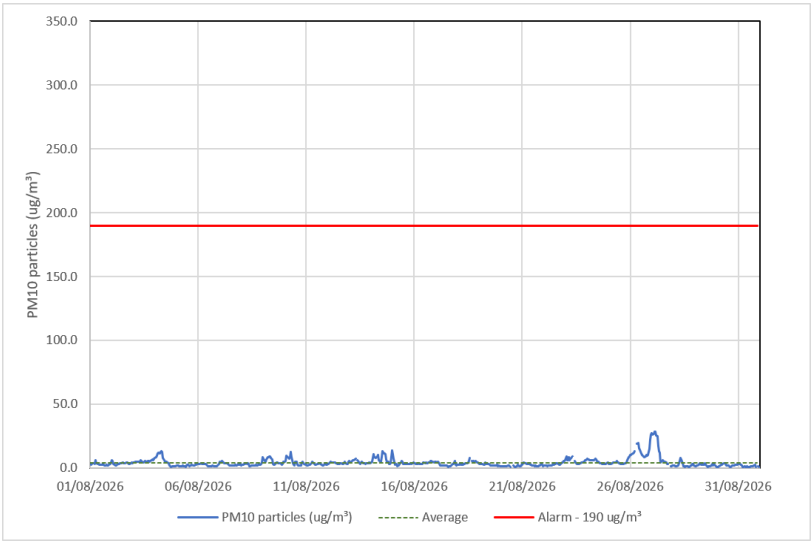
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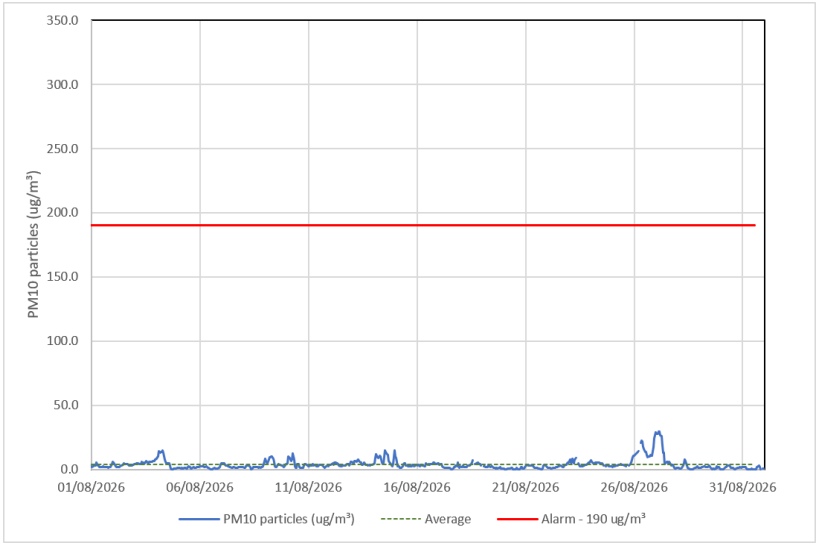
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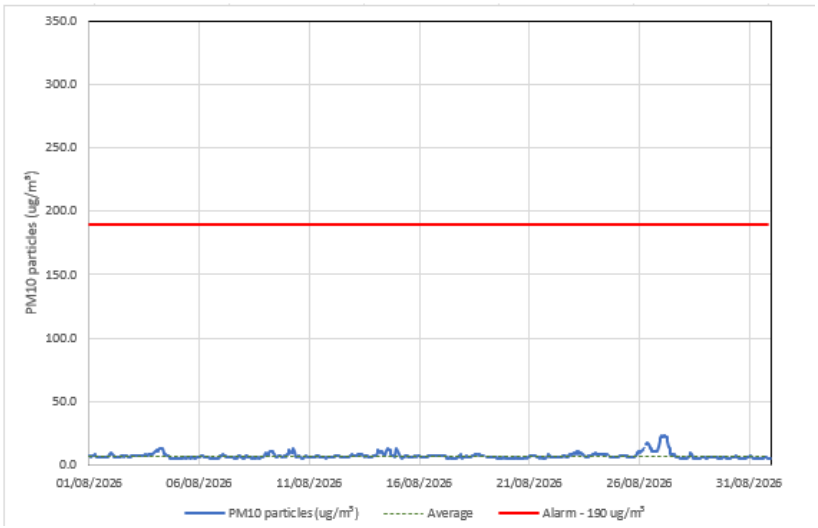
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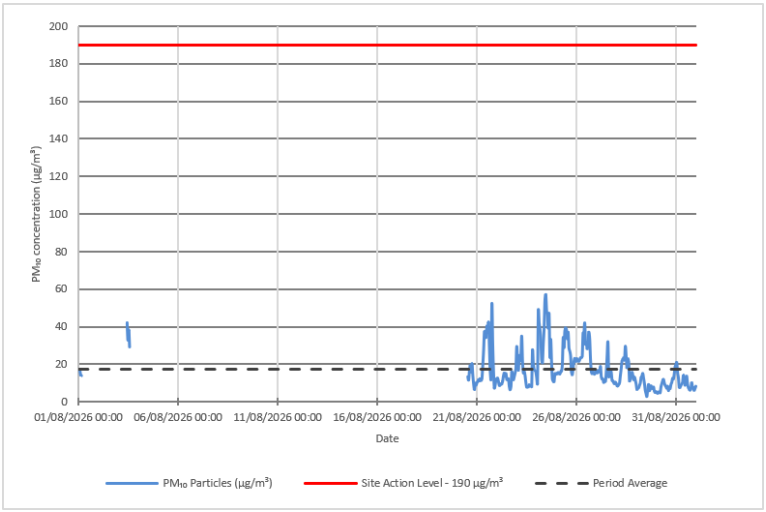
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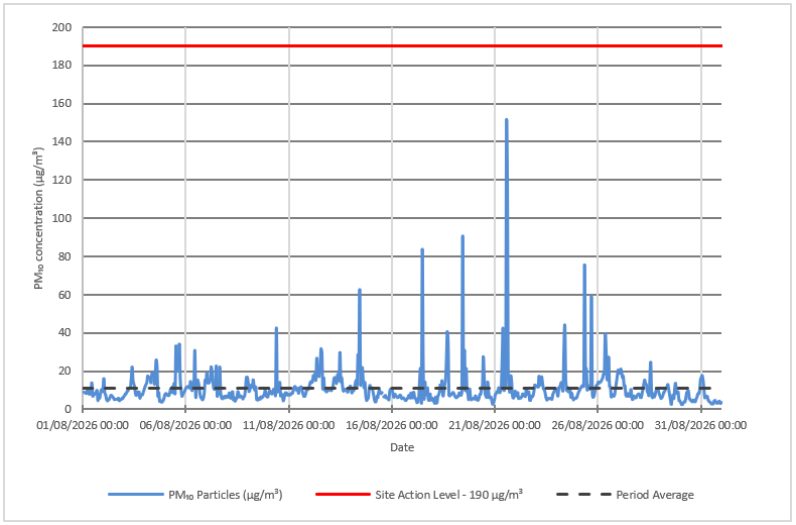
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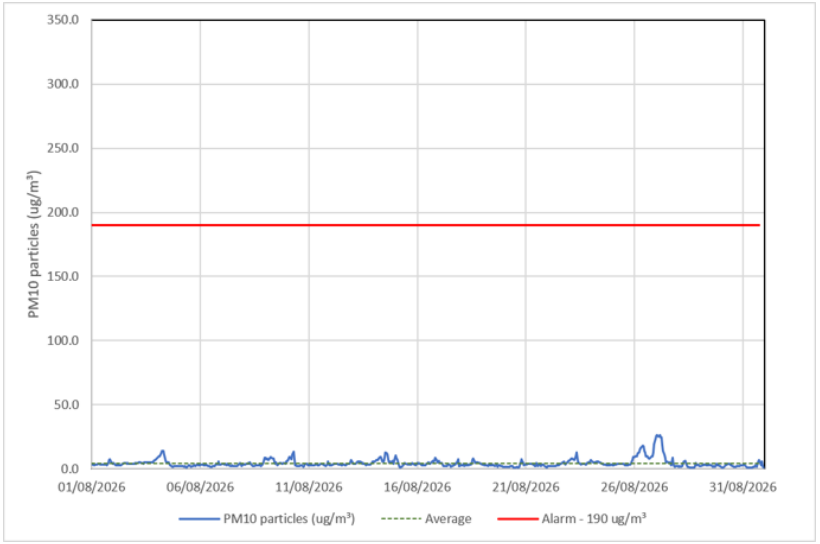
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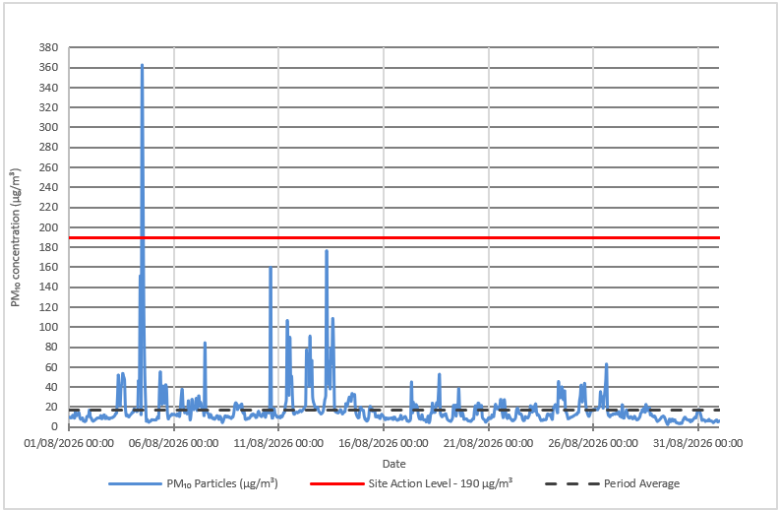
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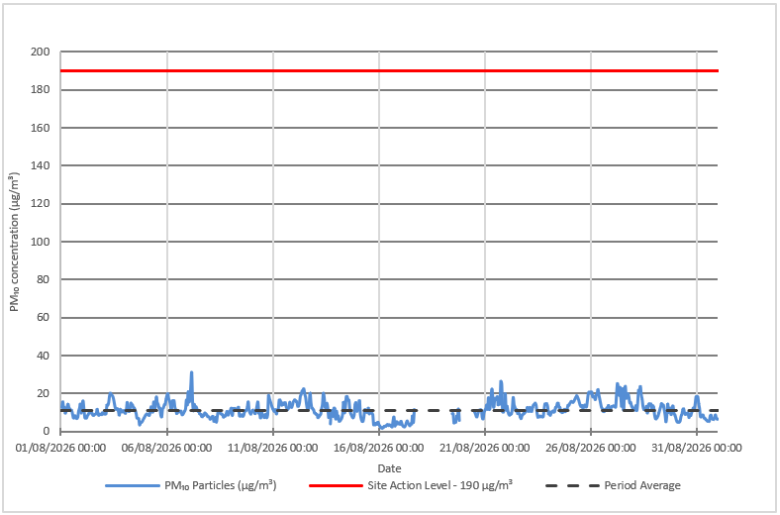
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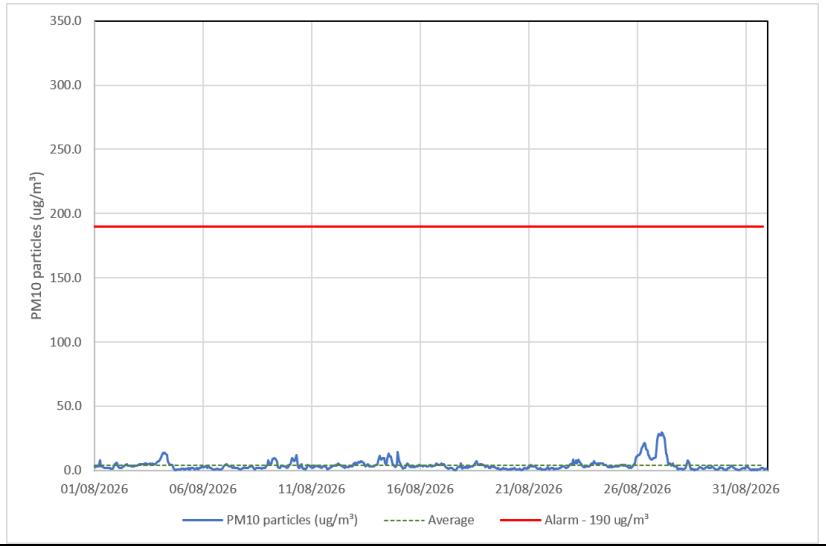
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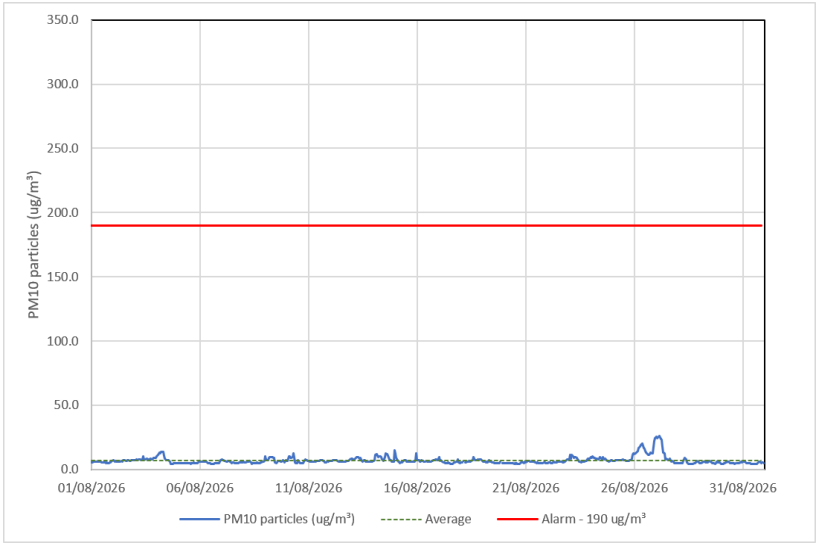
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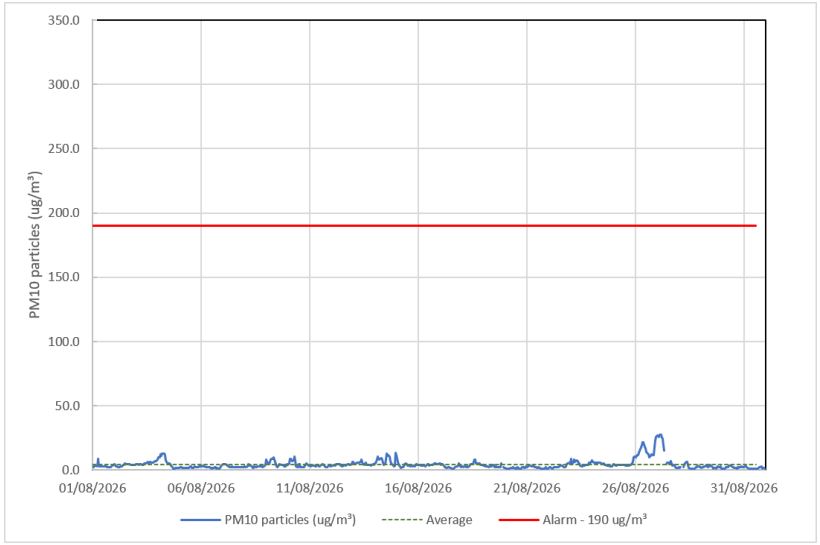
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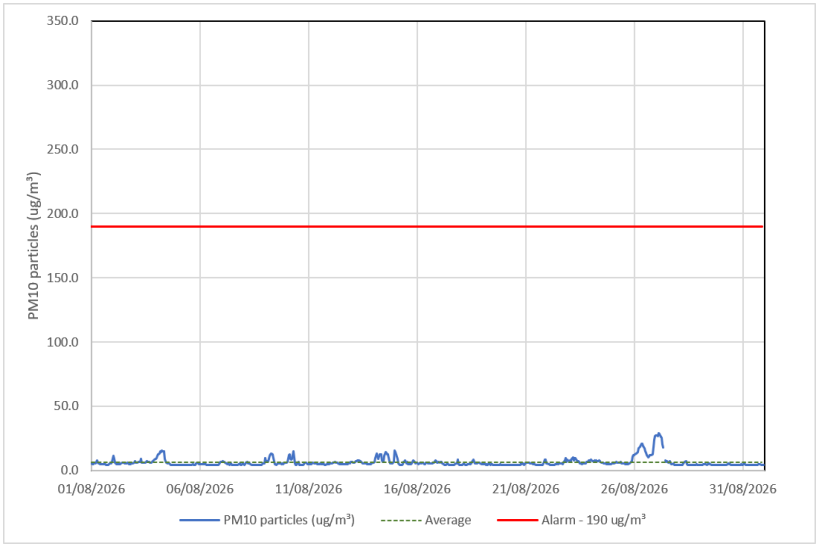
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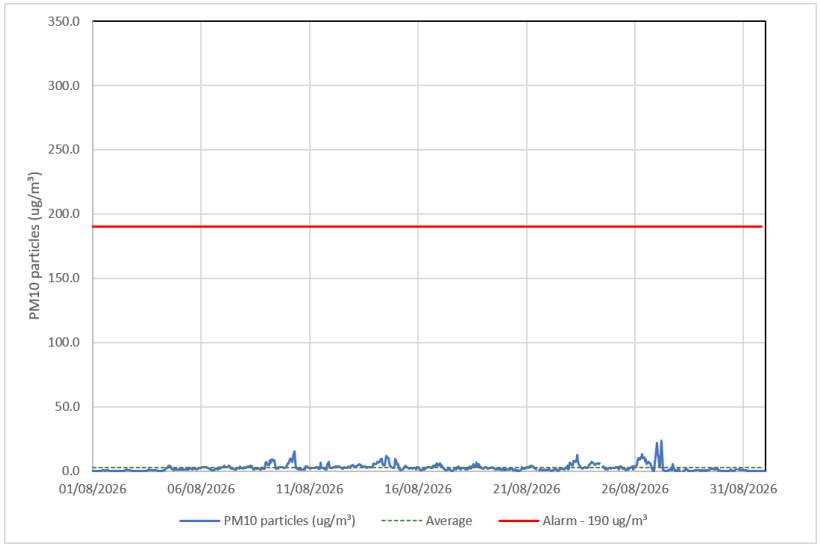
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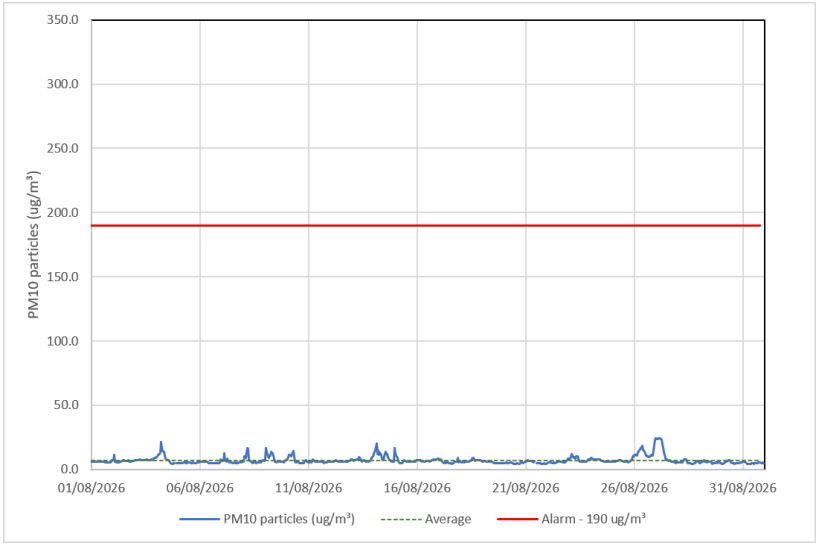
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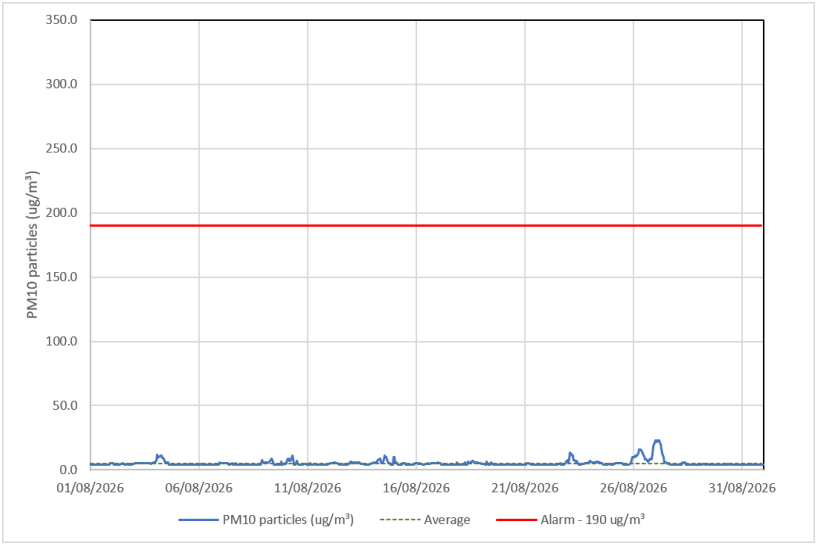
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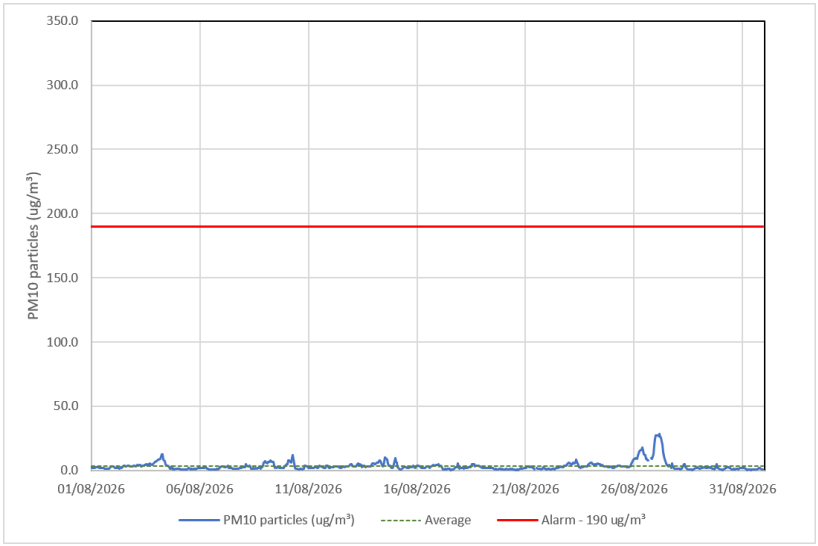
AQ046



AQ051



AQ055



Appendix C – Air Quality Monitoring Results

Table 2: NO_2 monitoring locations around highways, NO_2 concentrations and monthly monitoring results with running mean for 2026 (µg/m^3)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[1][2]
HS2-000020BN5	Sign post on Victoria Road	521443, 182477	37	21	35	27	27	28	25						29
HS2-000020BN7	The Approach Street sign	520959, 181102	31	39	36	27	36	29	21						31
HS2-000020BQF	Conway Drive signpost	520856, 181733	29	35	30	Tube Missing	35	31	27						31
HS2-000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	42	37	Tube Missing	27	28	28	22						31
HS2-000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	36	34	29	22	31	22	20						28
HS2-000020BP7	Triplicate site next to the Ealing, Hangar Lane Gyratory roadside automatic monitoring station	518537, 182708	50	47	45	41	49	45	35						45

[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.