February 2025



Air Quality and Dust Monitoring Monthly Report - February 2025

London Borough of Ealing



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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 January 2025 and February 2025 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 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.
- Old Oak Common Lane Welding, excavation, installing trench boxes.

Victoria Road Crossover Box and Flat Iron Site

- Crossover Box construction;
- Tunnel Boring Machine preparation; and
- Materials management.

Willesden Euro Terminal

Excavated material spoil management and onward removal by rail.

Atlas Road

Materials management (tunnel boring machine arisings).

Green Park Way Vent Shaft

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- Vent shaft construction; and
- Materials management.

Mandeville Road Vent Shaft

- Vent shaft construction; and
- Materials management.

Westgate Vent Shaft

- Vent shaft construction; and
- Materials management.

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

On Network Works

- Civil works; and
- OLE works.
- 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 2, 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 μ g/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 (February 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
 - Monitor AQ025 the street lighting column on which the monitor was installed has been without power since 3rd party utilities works were undertaken during October 2024.
 - Monitor AQ042 regular intermittent temporary power losses to the monitor, subsequently resolved.
 - Monitor AQ039 fault with the monitor.

- 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 2025 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.

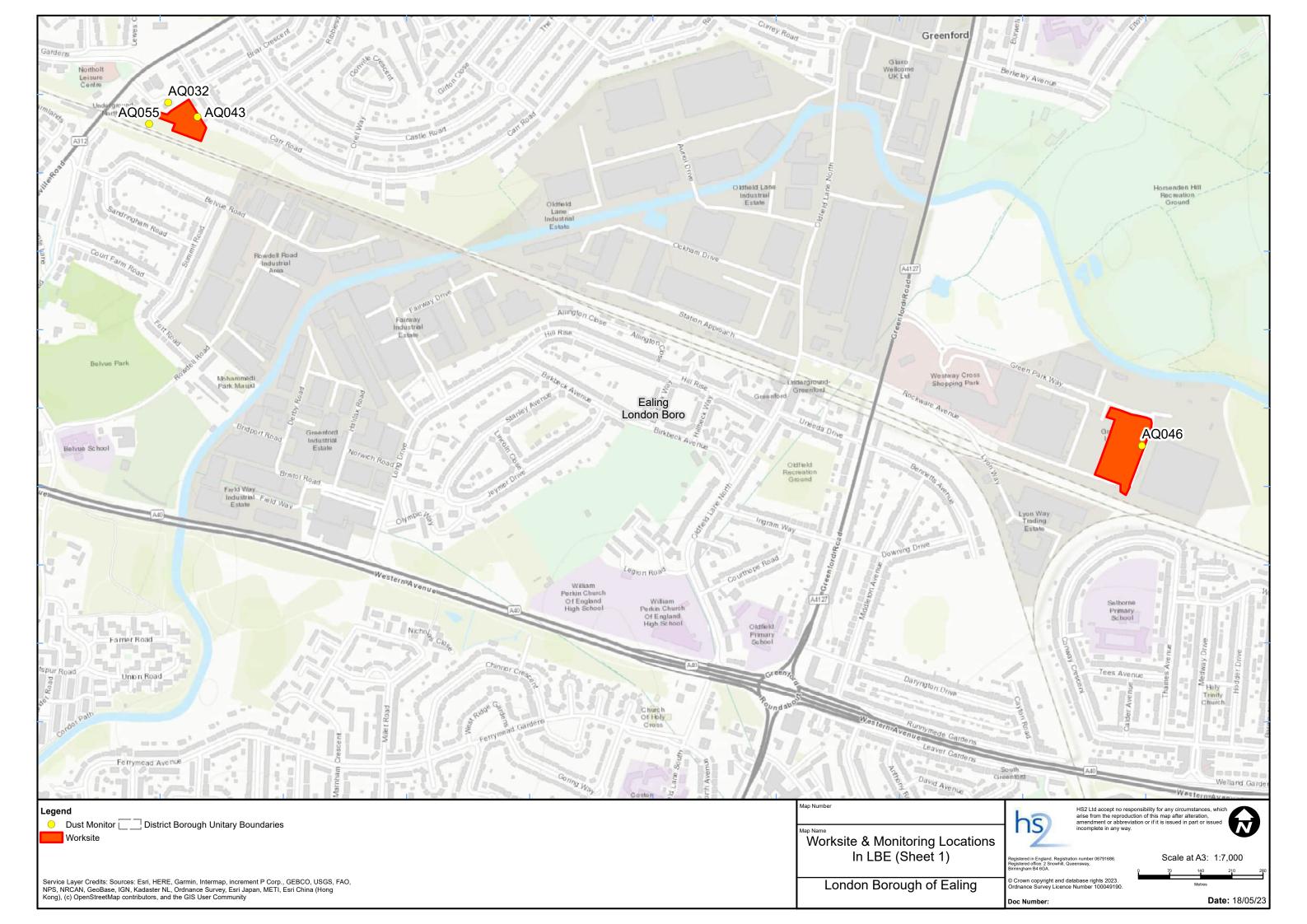
Table 1: Summary of complaints received during February 2025

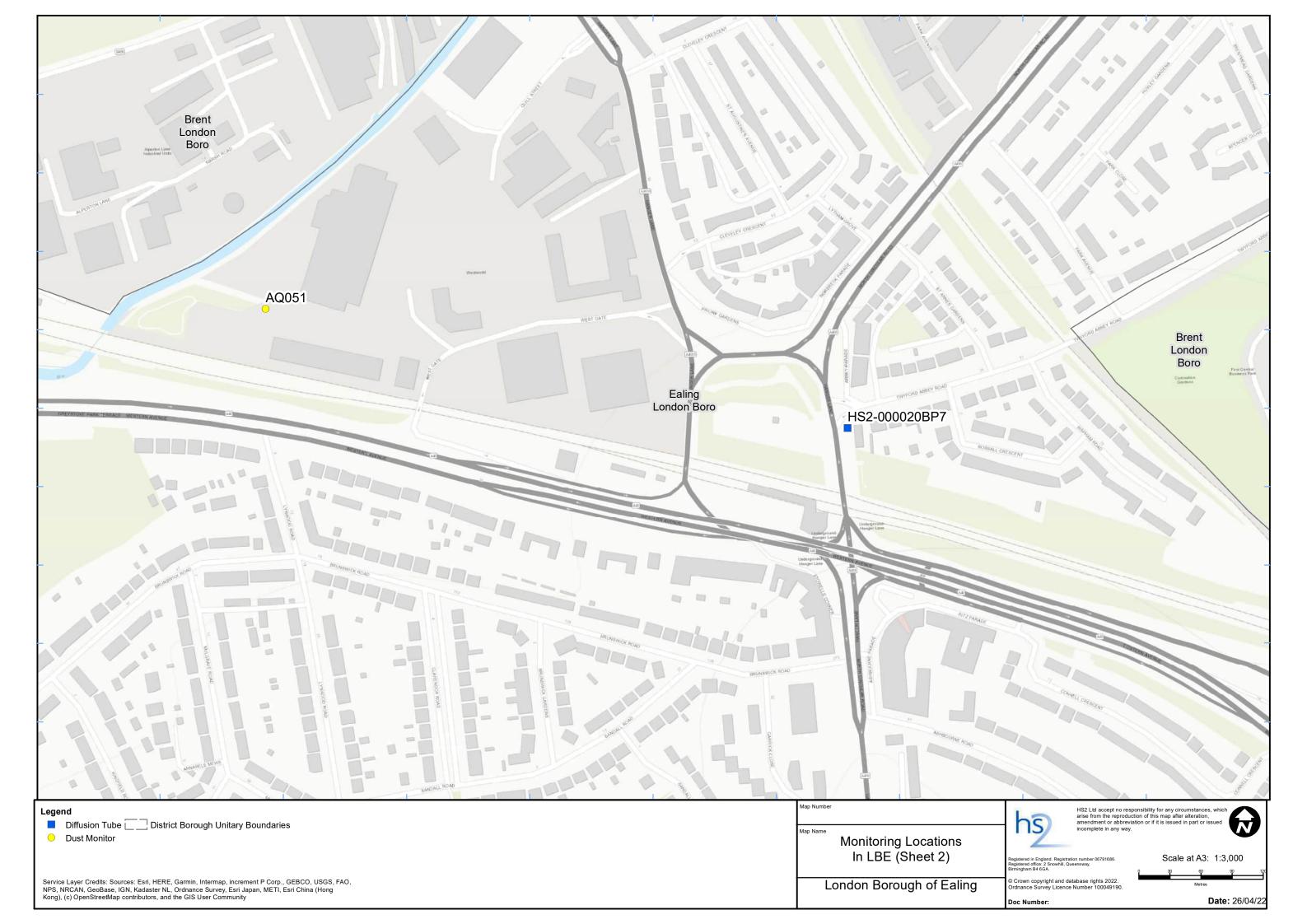
Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46134-C	N/A	Dust build-up on property.	A response was provided confirming that dust levels from and around site are below thresholds described by complainant. It was explained that should there be a trigger alert this will be looked into immediately. A link to the air quality reports was also included.

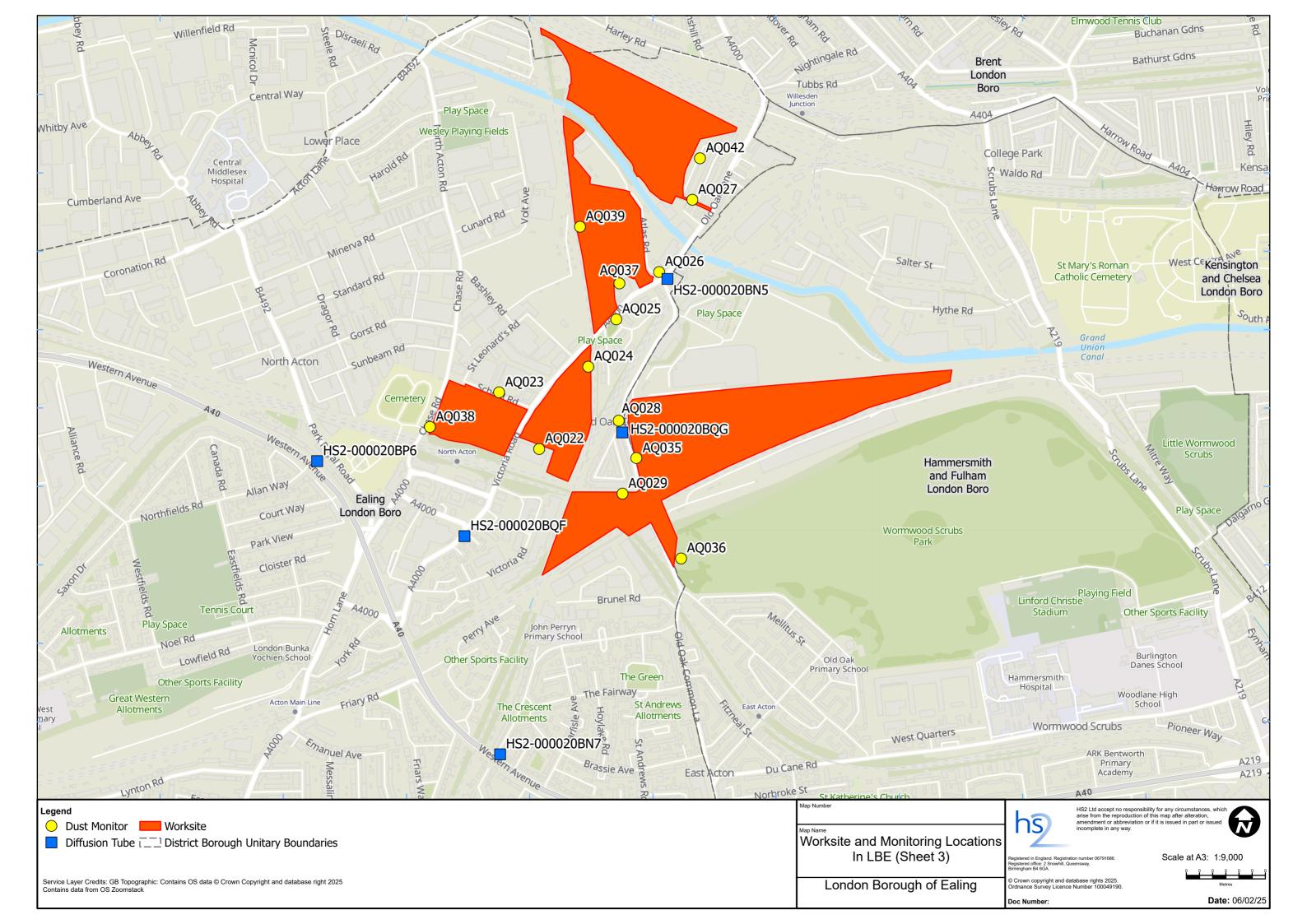
Appendix A – Worksites and Monitoring Locations

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

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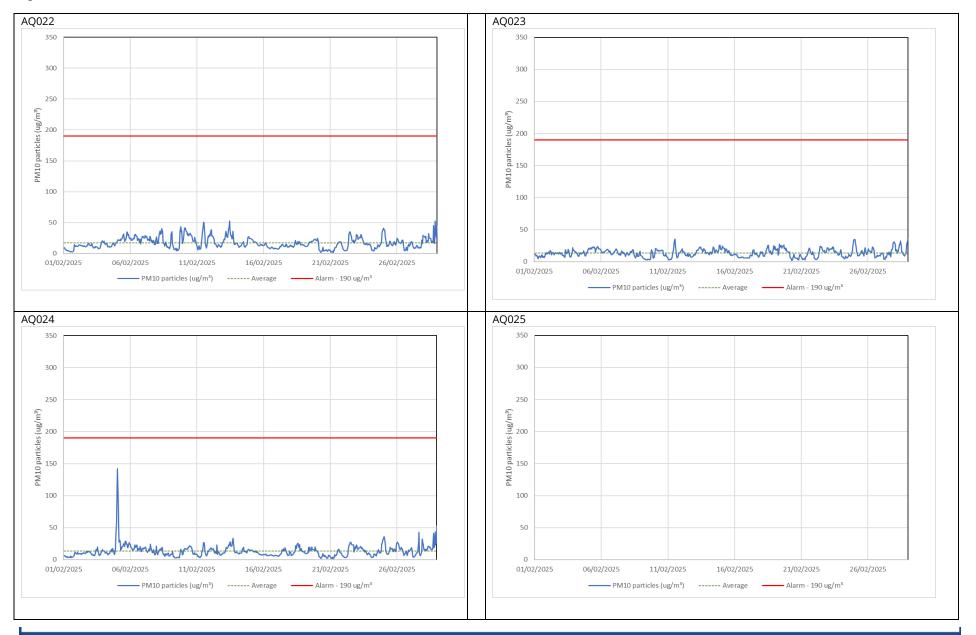
Appendix B - Dust Monitoring Results

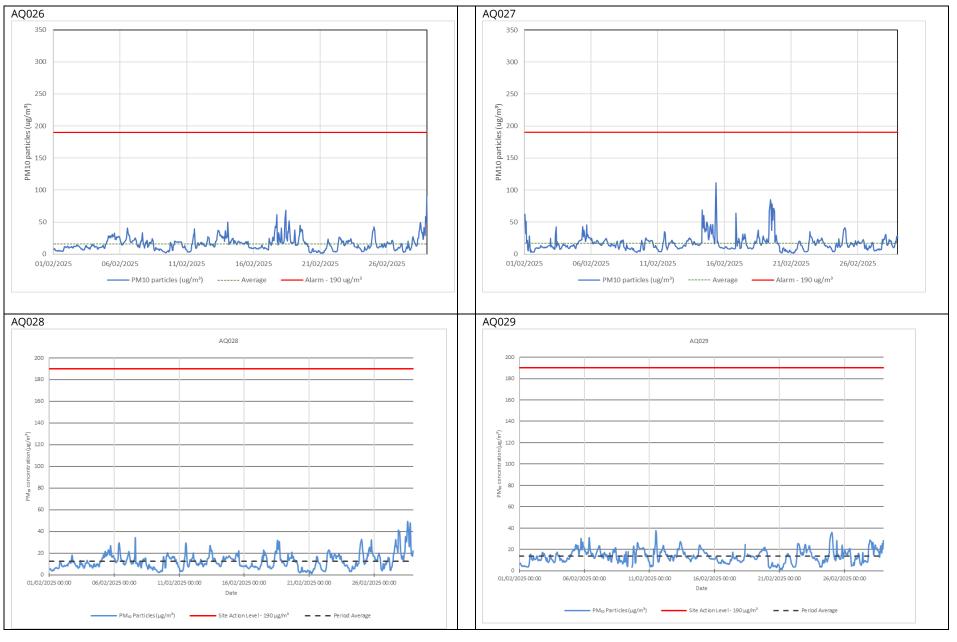
Table 2: Dust Monitoring Locations and Results

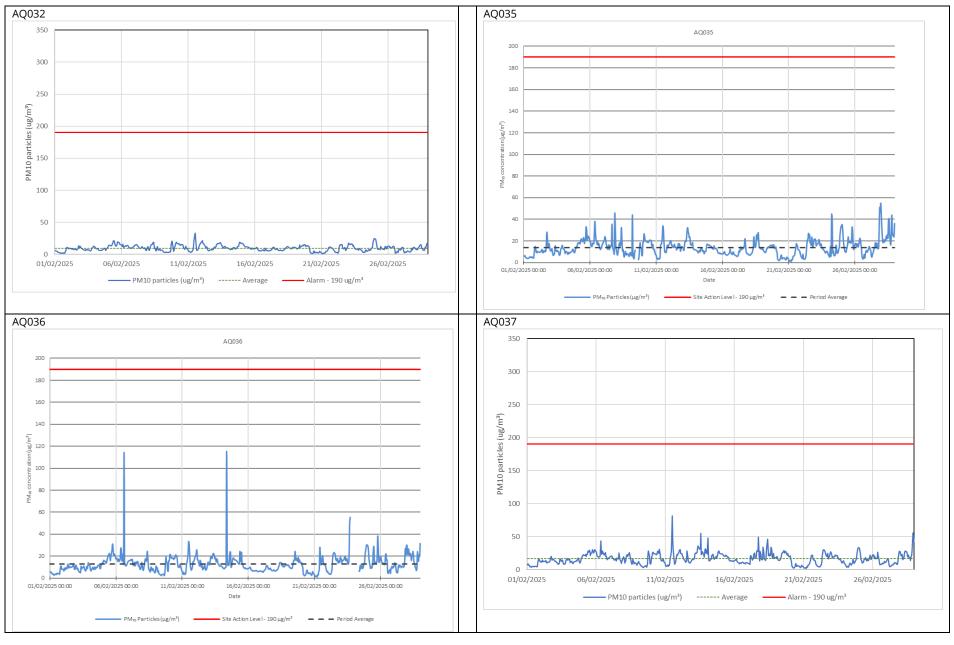
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (μg/m³)	Minimum 1- hour PM ₁₀ concentration (μg/m³)	Maximum 1-hour PM ₁₀ concentration (μg/m³)	Number of 1-hour periods exceeding trigger level of 190 µg/m³	Data capture (%)	
AQ022	521072, 181985	Boden House	М	Yes	N	17.2	1.8	52.9	0	100.0	
AQ023	520956, 182149	School Road	М	Yes	N	13.6	2.1	35.2	0	100.0	
AQ024	521214, 182223	Braitrim House	М	Yes	N	13.6	1.3	142.0	0	100.0	
AQ025	521295, 182360	Victoria Road	М	Yes	N	-	-	-	0	-	
AQ026	521419, 182497	Old Oak Lane	М	Yes	N	16.1	1.4	89.9	0	100.0	
AQ027	521515, 182706	Channel Gate Road	М	Yes	N	16.7	1.4	111.6	0	100.0	
AQ028	521302, 182067	Wells House Road	М	Yes	N	12.5	1.0	49.3	0	100.0	
AQ029	521453, 182132	Old Oak Common	Н	Yes	N	13.7	1.2	37.6	0	98.7	
AQ032	513402, 184536	Badminton Close	М	Yes	N	9.7	1.2	33.2	0	100.0	
AQ035	521353, 181959	Old Oak Common	Н	Yes	N	14.0	1.2	54.9	0	99.3	
AQ036	521482, 181668	UTX South – Triangle Site	М	Yes	N	12.7	1.1	115.1	0	97.8	
AQ037	521304, 182464	Atlas Road	М	Yes	N	16.7	1.7	81.8	0	100.0	

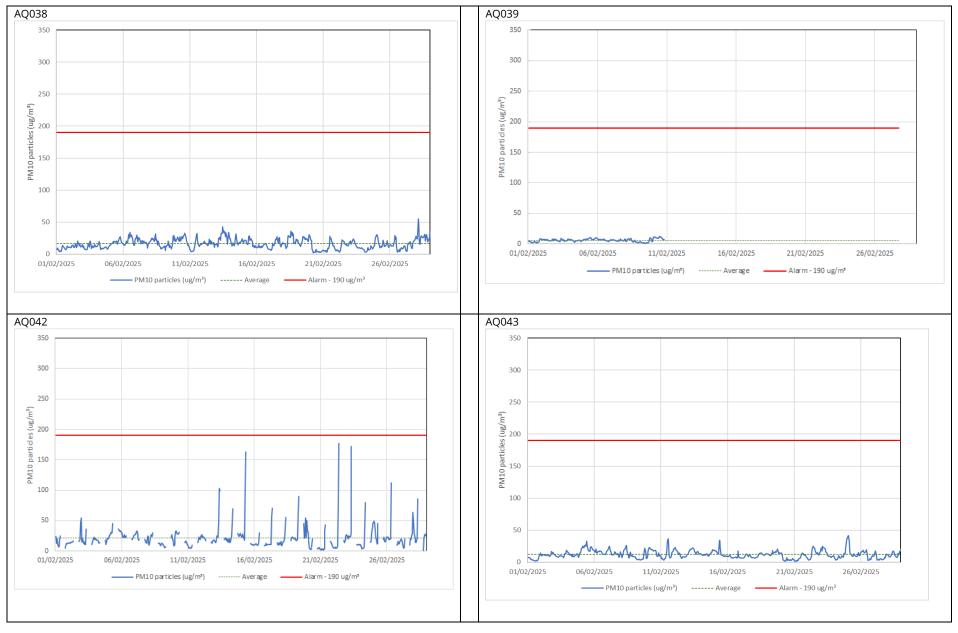
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (μg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m³)	Maximum 1-hour PM ₁₀ concentration (μg/m³)	Number of 1-hour periods exceeding trigger level of 190 µg/m³	Data capture (%)
AQ038	520756, 182049	Chase Road	М	Yes	Yes N 16.4 2.4		55.1	0	100.0	
AQ039	521190, 182628	Atlas Road 2	М	Yes	N	5.9	0.9 11.8		0	35.7
AQ042	521537, 182826	Stephenson Road	М	Yes	N	21.3	1.5	177.4	0	64.3
AQ043	513468, 184504	Mandeville Road	М	Yes	N	12.1	1.5	41.4	0	100.0
AQ046	515593, 183764	Green Park Way	М	Yes	N	11.4	11.4 1.4 37.7		0	99.7
AQ051	517976, 182823	Westgate	М	Yes	N	14.5	2.2	93.8	0	100.0
AQ055	513359, 184488	Mandeville Road 2	М	Yes	N	10.7	1.4	40.4	0	100.0

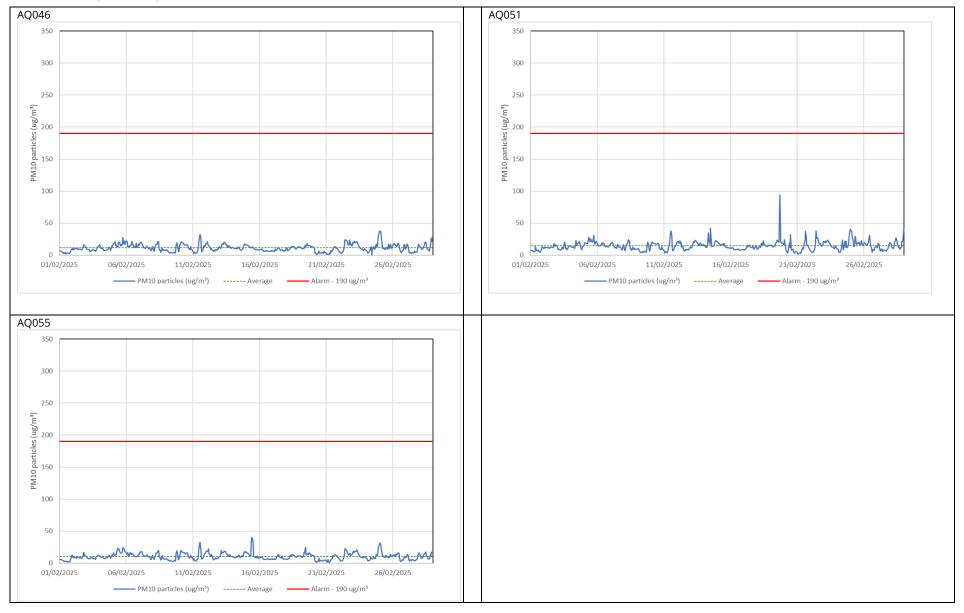
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors











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
HS2-000020BN5	Sign post on Victoria Road	521443, 182477	58												58
HS2-000020BN7	The Approach street sign	520959, 181102	48												48
HS2-000020BQF	Conway Drive sign post	520856, 181733	46												46
HS2- 000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	51												51
HS2-000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	47												47

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.

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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	60												60