

Air Quality and Dust Monitoring Monthly Report – April 2026

London Borough of Hillingdon



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 Hillingdon (LBH) during March and April 2026 respectively.
- 1.1.2 Figure 1 to Figure 4 in Appendix A present the current worksites together with air quality 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 4, include:
- Gatemead and West Ruislip Embankment, Breakspear Road South and River Pinn Underbridge, concreting, groundworks and materials management.
 - Copthall North groundworks and materials management.
 - West Ruislip Portal - site demobilisation and headhouse construction.
 - South Ruislip vent shaft and headhouse construction, ground works, concrete works and materials management.
 - Northern Sustainable Placement Area (NSPA) landscaping, seeding and planting.
 - Southern Sustainable Placement Area (SSPA) seeding, planting and demobilisation.
- 1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium 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 in Figure 5. 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 190µg/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 (April 2026).
- 1.1.9 Data capture was below 90% for multiple monitors due to:

- AQ041 was due to loss of power. The PSU has recently been swapped in the most recent maintenance visit.
- AQ050 was due to loss of power, which is under investigation.

1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at eleven (11) locations around highways within the LBH as part of the management of air quality where significant effects may occur as a result of the scheme.

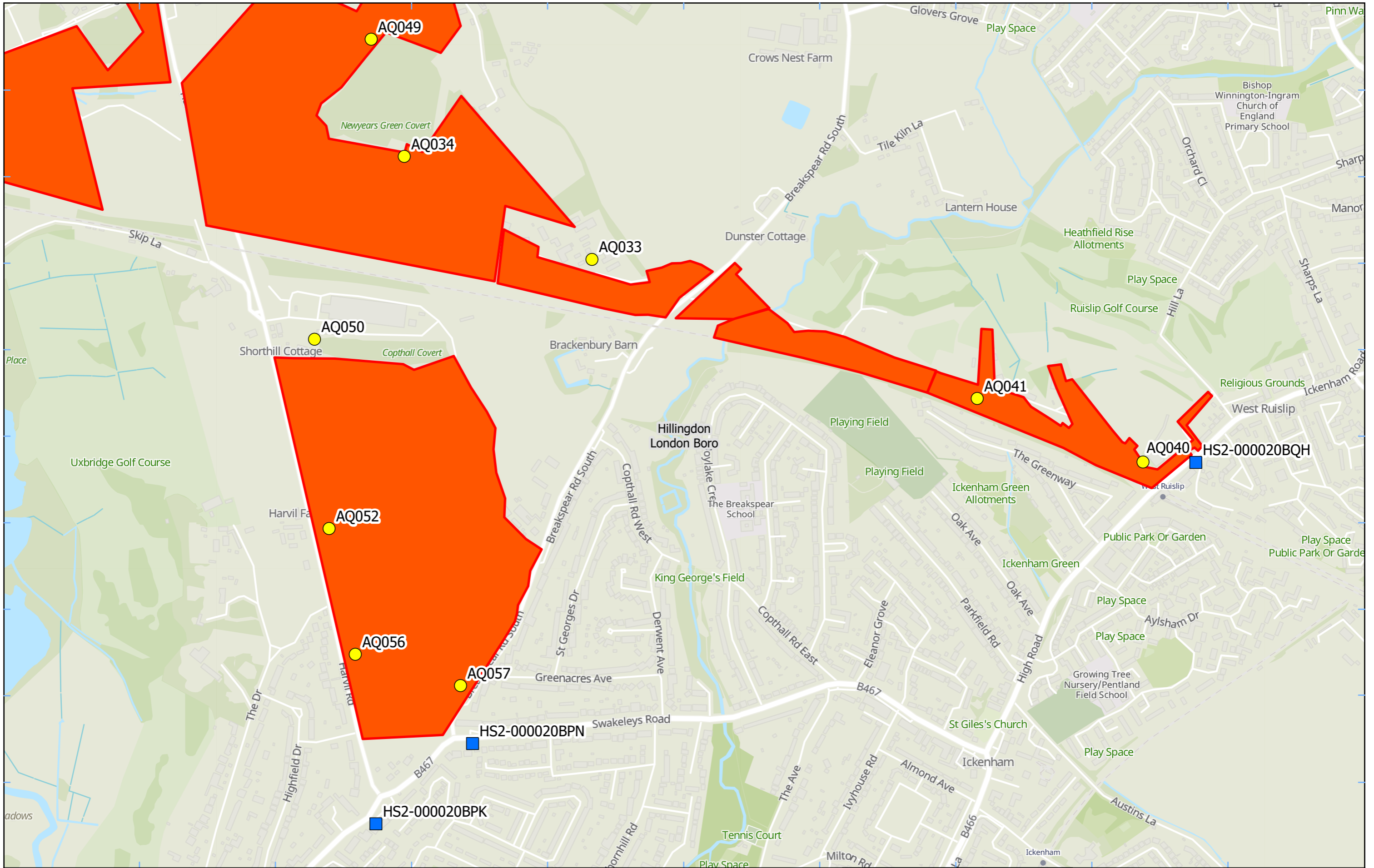
1.1.11 Diffusion tube monitoring results are as provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on results to date, no unexpected values were 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 (April 2026).

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Current monitoring locations within the LBH



Legend

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

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Map Number

Map Name
Worksite and Monitoring Locations in LBH (Sheet 1)

London Borough of Hillingdon

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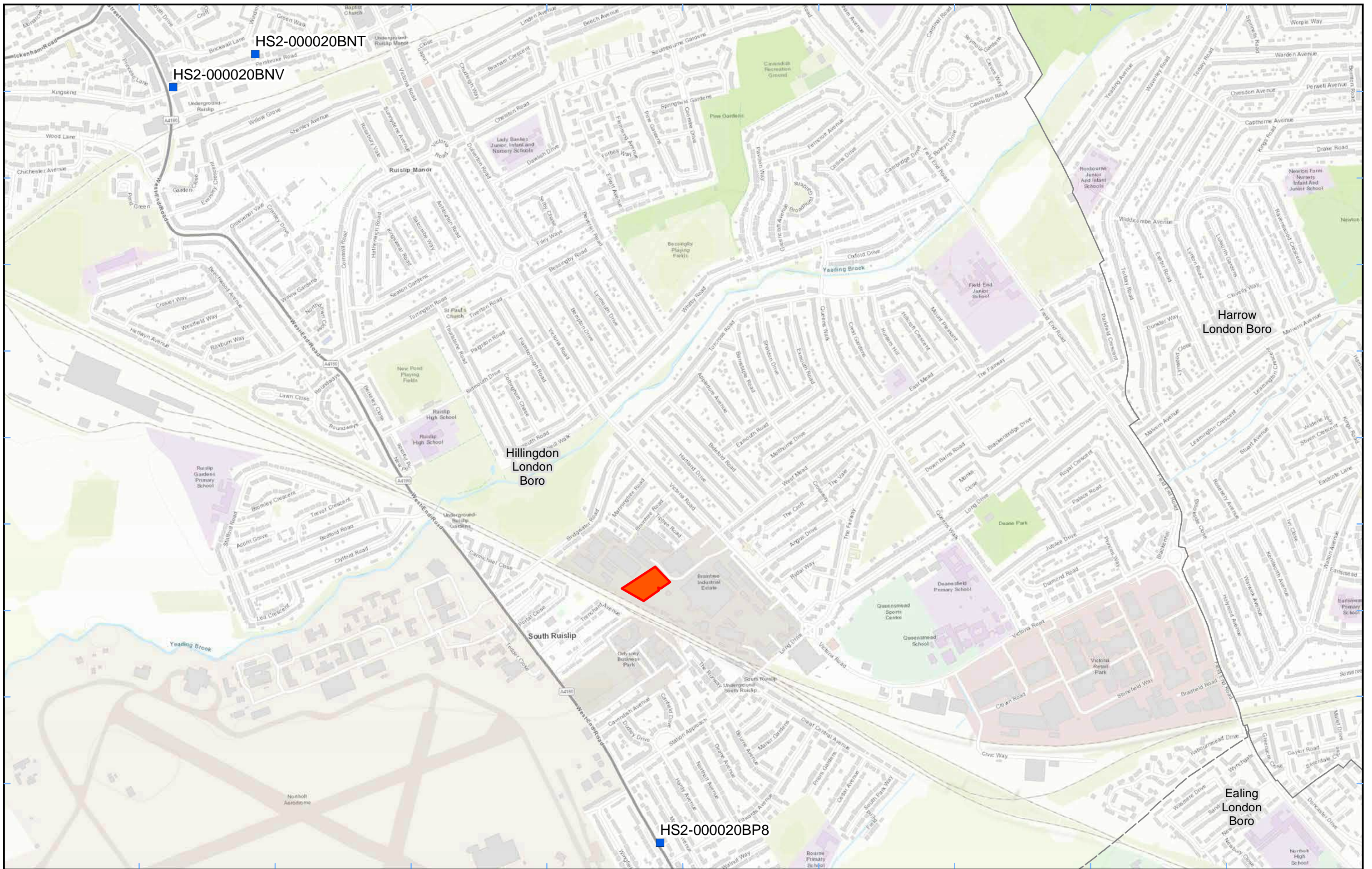
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Legend
■ Diffusion Tube District Borough Unitary Boundaries
 Worksite

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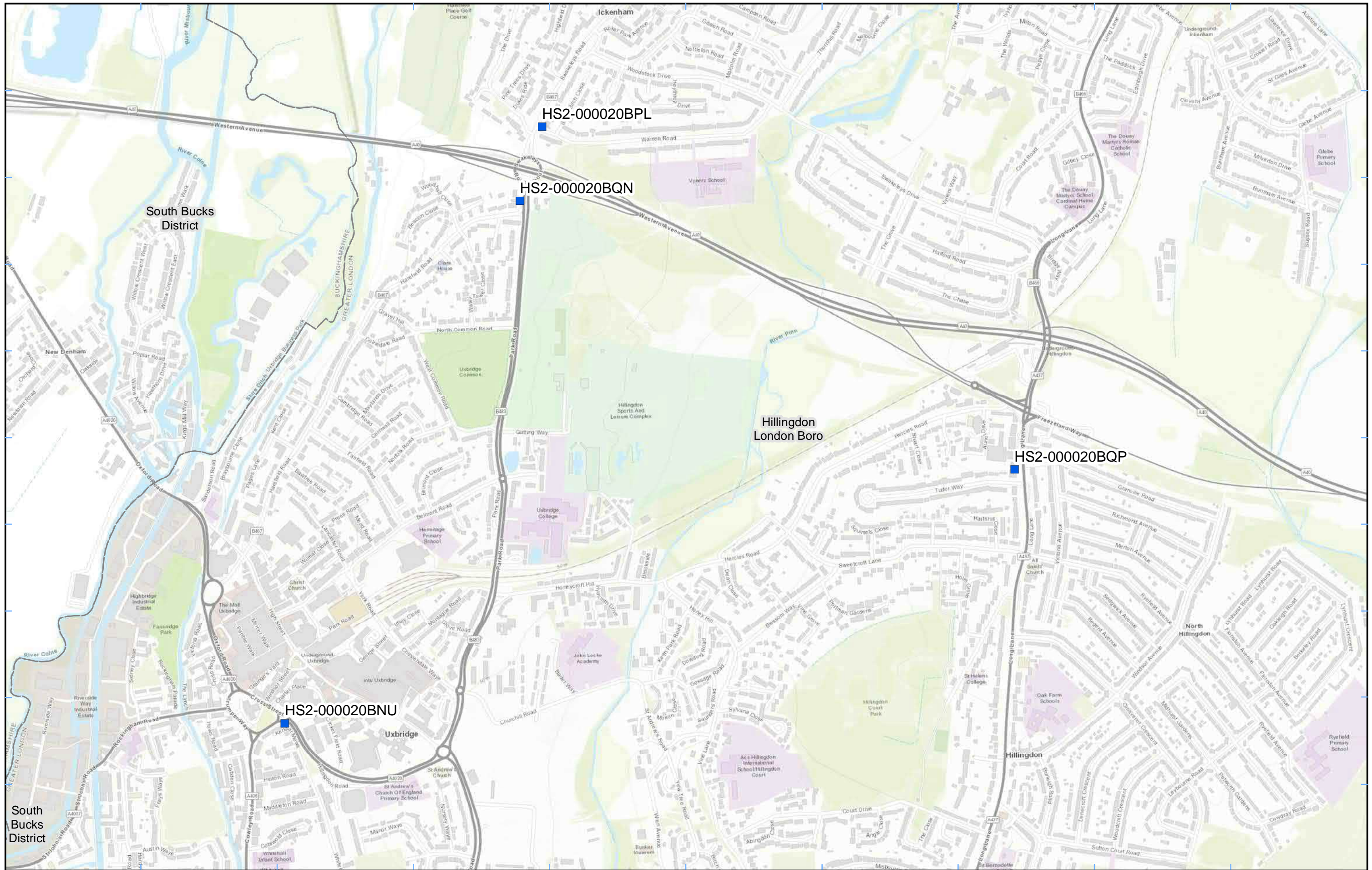
Map Number
 Map Name
**Worksite and Monitoring Locations
 In LBH (Sheet 2)**
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Legend
 ■ Diffusion Tube
 □ District Borough Unitary Boundaries

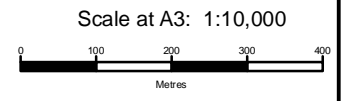
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Monitoring Locations In LBH (Sheet 3)
London Borough of Hillingdon



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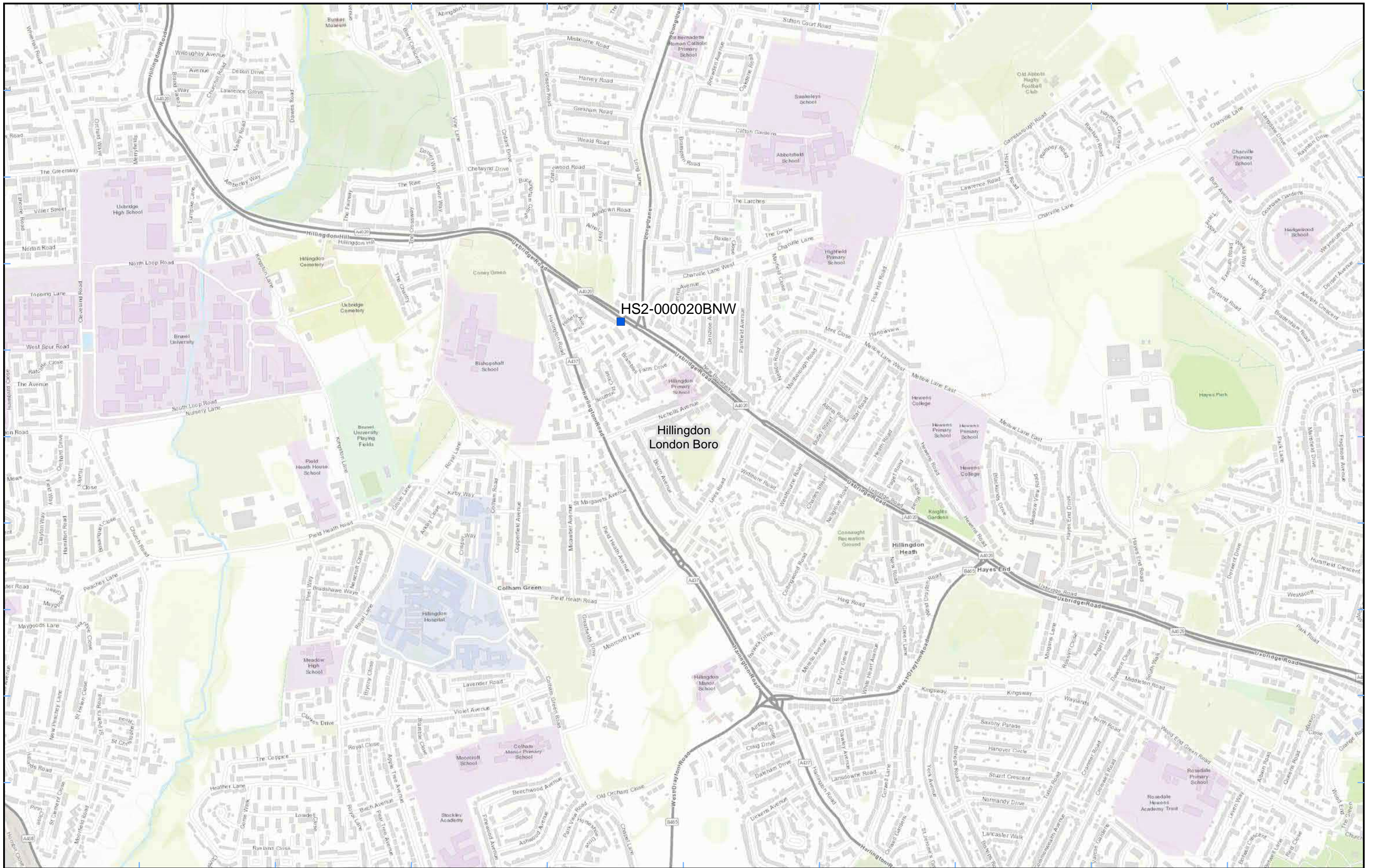


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Legend
■ Diffusion Tube
 District Borough Unitary Boundaries

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Map Number
 Map Name
Monitoring Locations In LBH (Sheet 4)
London Borough of Hillingdon

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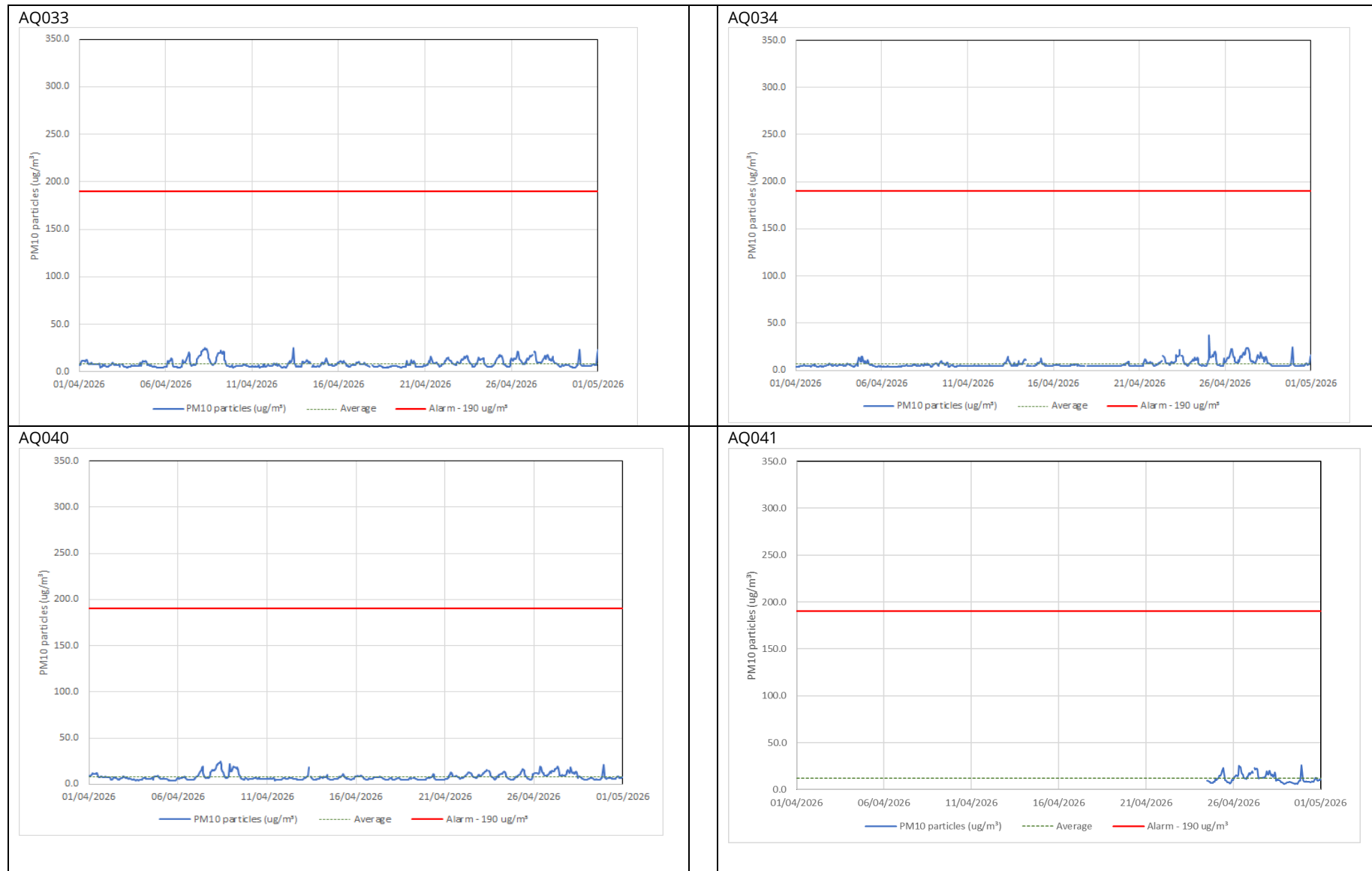
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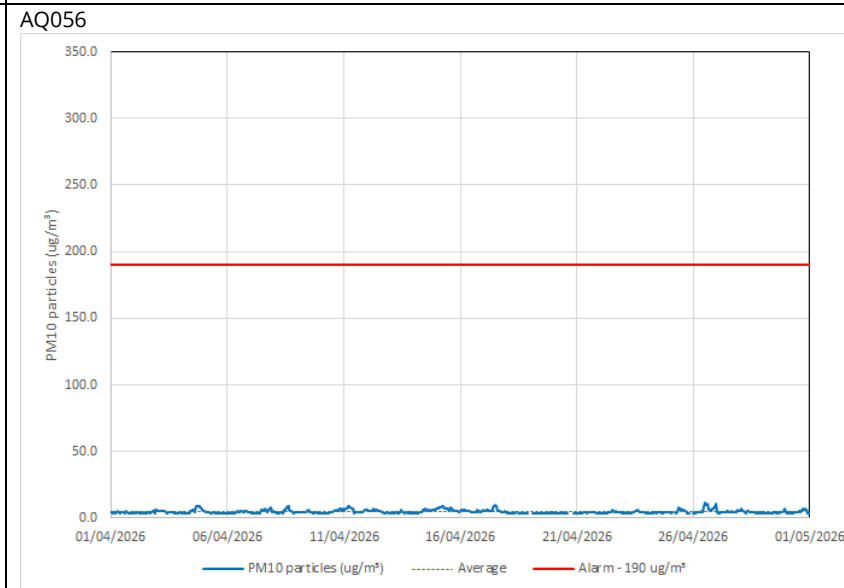
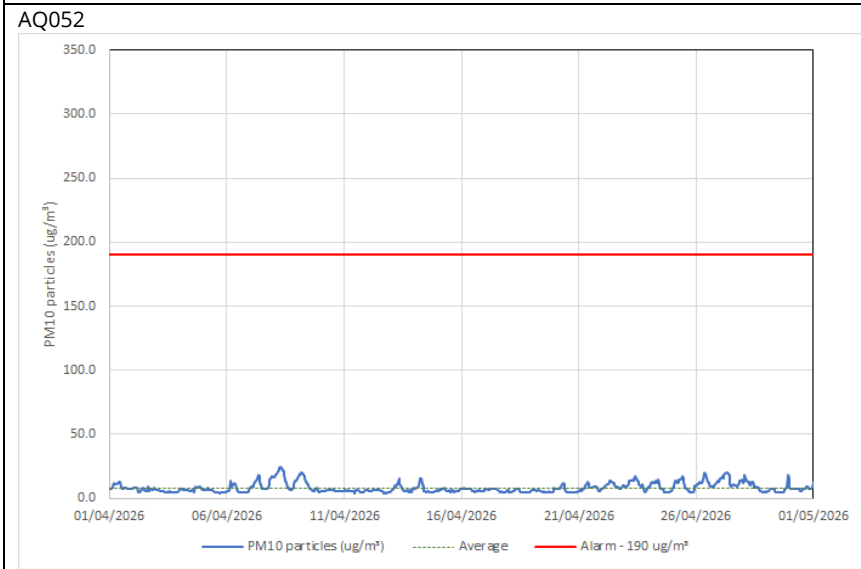
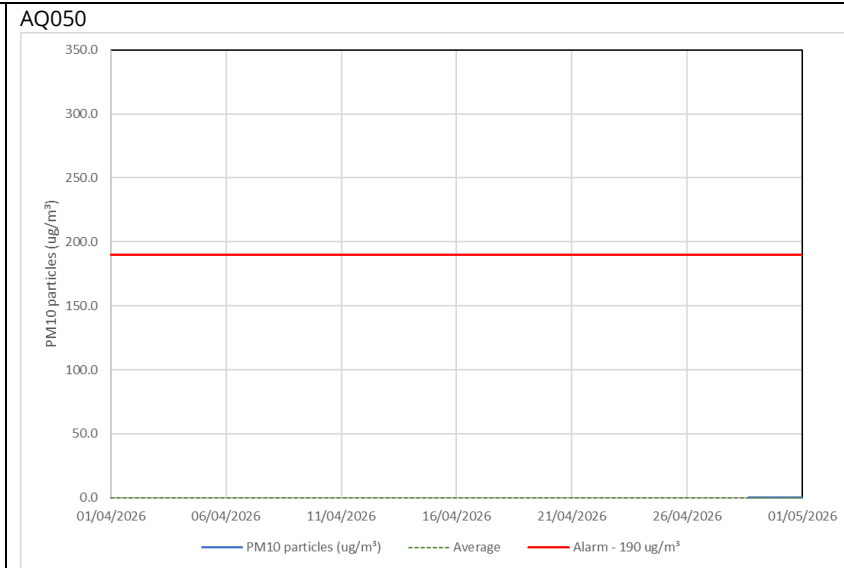
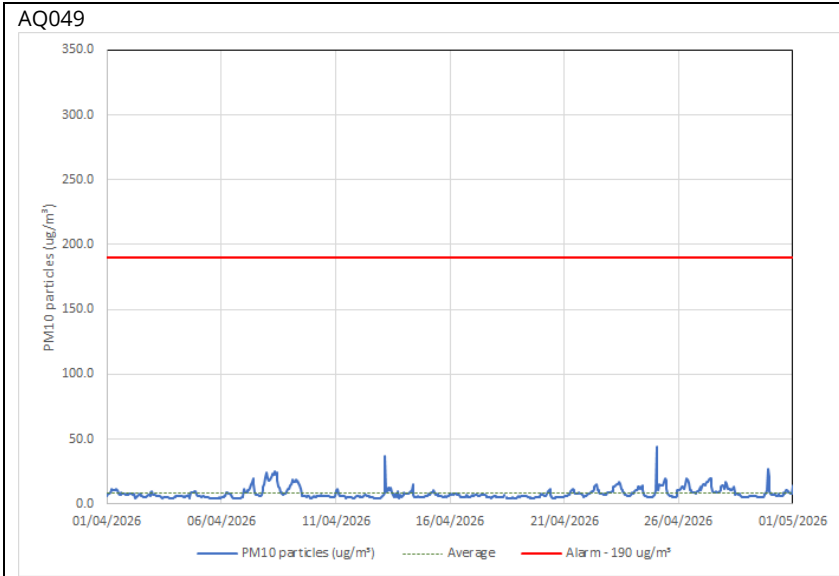
Appendix B – Dust Monitoring Results

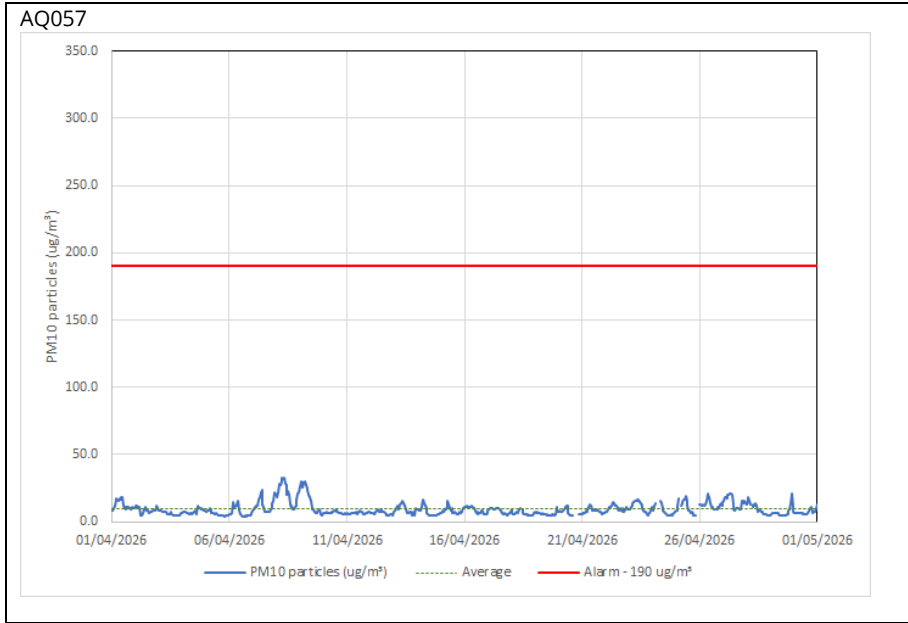
Table 1: Dust Monitoring Locations and Results

| 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 (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 (%) |
|--------------------|-------------------|-------------------------------------|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| AQ033 | 507045, 187352 | Breakspear Road South | M | Yes | N | 8.8 | 4.0 | 25.3 | 0 | 99.2 |
| AQ034 | 506608, 187592 | Copthall Cutting | L | Yes | N | 7.0 | 4.0 | 37.3 | 0 | 99.2 |
| AQ040 | 508328, 186880 | West Ruislip Golf Course | M | Yes | N | 7.9 | 4.0 | 24.7 | 0 | 99.4 |
| AQ041 | 507942, 187028 | West Ruislip Portal | M | Yes | N | 12.0 | 6.0 | 26.2 | 0 | 21.5 |
| AQ049 | 506531, 187865 | Copthall North, Ancient Woodland | M | Yes | N | 8.2 | 4.0 | 44.0 | 0 | 100.0 |
| AQ050 | 506399, 187166 | Copthall South Compound | M | Yes | N | - | - | - | - | - |
| AQ052 | 506433, 186725 | Southern Sustainable Placement Area | M | Yes | N | 8.3 | 4.0 | 24.2 | 0 | 100.0 |
| AQ056 | 506494, 186432 | Southern Sustainable Placement Area | M | Yes | N | 4.9 | 4.0 | 11.7 | 0 | 97.8 |
| AQ057 | 506739, 186359 | Southern Sustainable Placement Area | M | Yes | N | 9.3 | 4.2 | 33.2 | 0 | 97.9 |

Figure 5: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors







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 |
|--------------------|---|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| HS2-000020BNT | Lamp post on Pembroke Road | 509678, 187214 | 30 | 26 | 13 | | | | | | | | | | 23 |
| HS2-000020BNU | Cowley Road sign post at junction with Hillingdon Road | 505492, 183926 | 21 | 37 | 32 | | | | | | | | | | 30 |
| HS2-000020BNV | High Street sign post at junction with Pembroke Road | 509439, 187117 | 38 | 35 | 20 | | | | | | | | | | 31 |
| HS2-000020BNW | Signpost on A4020 Uxbridge Road at junction with Long Lane | 507365, 182687 | 48 | 34 | 30 | | | | | | | | | | 37 |
| HS2-000020BPK | Lamp post in crescent off Swakeleys Road | 506542, 186037 | 29 | 25 | 26 | | | | | | | | | | 27 |
| HS2-000020BPL | Warren Road sign post on corner of Swakeleys Road and Warren Road | 506240, 185660 | 32 | 31 | 30 | | | | | | | | | | 31 |

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 |
|--------------------|--|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| HS2-000020BPN | Lamp post on B467 | 506767, 186224 | 36 | 29 | 29 | | | | | | | | | | 31 |
| HS2-000020BQH | Lamp post on High Road Ickenham | 508451, 186879 | 28 | 22 | 31 | | | | | | | | | | 27 |
| HS2-000020BQN | Lamp post on Park Road | 506176, 185444 | 46 | 38 | 28 | | | | | | | | | | 38 |
| HS2-000020BQP | Sign post on Long Lane | 507614, 184663 | 35 | 26 | 31 | | | | | | | | | | 31 |
| HS2-000020BP8 | Triplicate site at South Ruislip roadside automatic monitoring station | 510858, 184916 | 31 | 29 | 19 | | | | | | | | | | 26 |