

May 2025

Air Quality and Dust Monitoring Monthly Report – May 2025 London Borough of Camden

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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 Camden (LBC) during April 2025 and May 2025 respectively.
- 1.1.2 Figure 1 to Figure 5 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 <u>www.gov.uk/government/collections/monitoring-the-environmental-</u><u>effects-of-hs2</u>, 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 5, include:

Skanska Costain Strabag Joint Venture (SCSjv)

Adelaide Road Vent Shaft

• Works currently paused until April 2027.

Euston Scissor Cut

- Limited groundworks;
- Concrete works; and
- Materials management.

Euston Throat Retained Cut

- Limited groundworks;
- Concrete works; and
- Materials management.

Hampstead Road Bridge

• Utilities diversion works.

Euston Cavern

- Limited groundworks;
- Concrete works; and
- Materials management.

Mace Dragados Joint Venture (MDjv)

<u>Delatim</u>

- L1 Stair 1: Kemwell and lagging works (completed)
- Stair 1 (south): Cutting screed for movement joints. Mastic to newly formed joints.
- Stairs 1 and 2: Remedial and snagging works to floor.
- Back of House: Installation of permanent signage.
- Back of House: Continued with fire stopping around services.
- L1, L2: Core drilling for NG Bailey services.
- L1-01: Remedial works (tape & jointing) to soffit.
- L2 Riser 3: Installing key-clamp handrail around ducts.
- Riser 2: Floor GRP infill modifications work.
- TSS Box (South): Snagging and firestopping door's thresholds. Removing tape and film, cleaning thresholds ready to mastic.
- Carried out NOWRI and signed off for BIU finishes on Stair 1 and Stair 2.
- Various mastic works, labelling and logging.

<u>Wingate</u>

- Stripping out and re-routing cables.
- Maintenance works.

<u>GKR</u>

• Scaffolding Tracker works.

<u>Clipfine</u>

- Assisting contractors with movement of materials in the main yard.
- Infilling holes, making good concrete walls.
- Continued with wall painting snagging works (throughout the box).
- General housekeeping (various locations).
- Protection of completed assets (floors and doors).
- Various carpentry works.
- Assisted lifting operations via access hatches (carried out by Plant Movement).
- Water management.

<u>McGee</u>

- Demolition of acoustic works. (completed)
- Site demobilisation.

Balfour's completed works

- Ongoing pre-commissioning works on TSS plant.
- Successful QICC Inspections.

Utilities Project Wide works

- Completed de-commissioning and grouting of 42' water main on Hampstead Road and Redhill/Augustus/Varndell/Cardington Streets.
- Continued construction of MH1 at Hampstead Road/Cardington Street.
- Ongoing UKPN trench excavation at Cobourg Street and TSS area.
- Snagging works to Caisson 11 timber heading to existing sewer at Melton Street and cover slab installation.
- Melton Street 800mm gas excavation and 42' water main decommissioning.
- Euston Street gas diversion compound set up and hand/vac-ex excavation.
- Drummond Street gas secondary diversion compound set up and excavation.

<u>MF building</u>

• Internal snagging and remedial works.

<u>MF Old School</u>

- 1st fix metal stud partitions and gypliner half height walls plus taping and jointing of gypliner walls completed.
- Stairwell 3 ground floor entrance and half landing window removed and replaced with metal stud walls and taped and jointed.
- Painting walls from soffit to picture rails on the ground floor.
- TW back propping completed in basement.
- Earthing rods for substation completed.
- Littlewood fitted gates for UKPN substation.
- Basement drainage inspection and clearance completed.
- Brick firewall started around UKPN substation.

<u>Zone 5</u>

- Blu-3 commenced Emico and UKPN substations platform building.
- Storage area.

<u>Two Towers</u>

• Barhale compound relocation and set up.

Night shift activities at Euston Street (internal - platforms/tunnels)

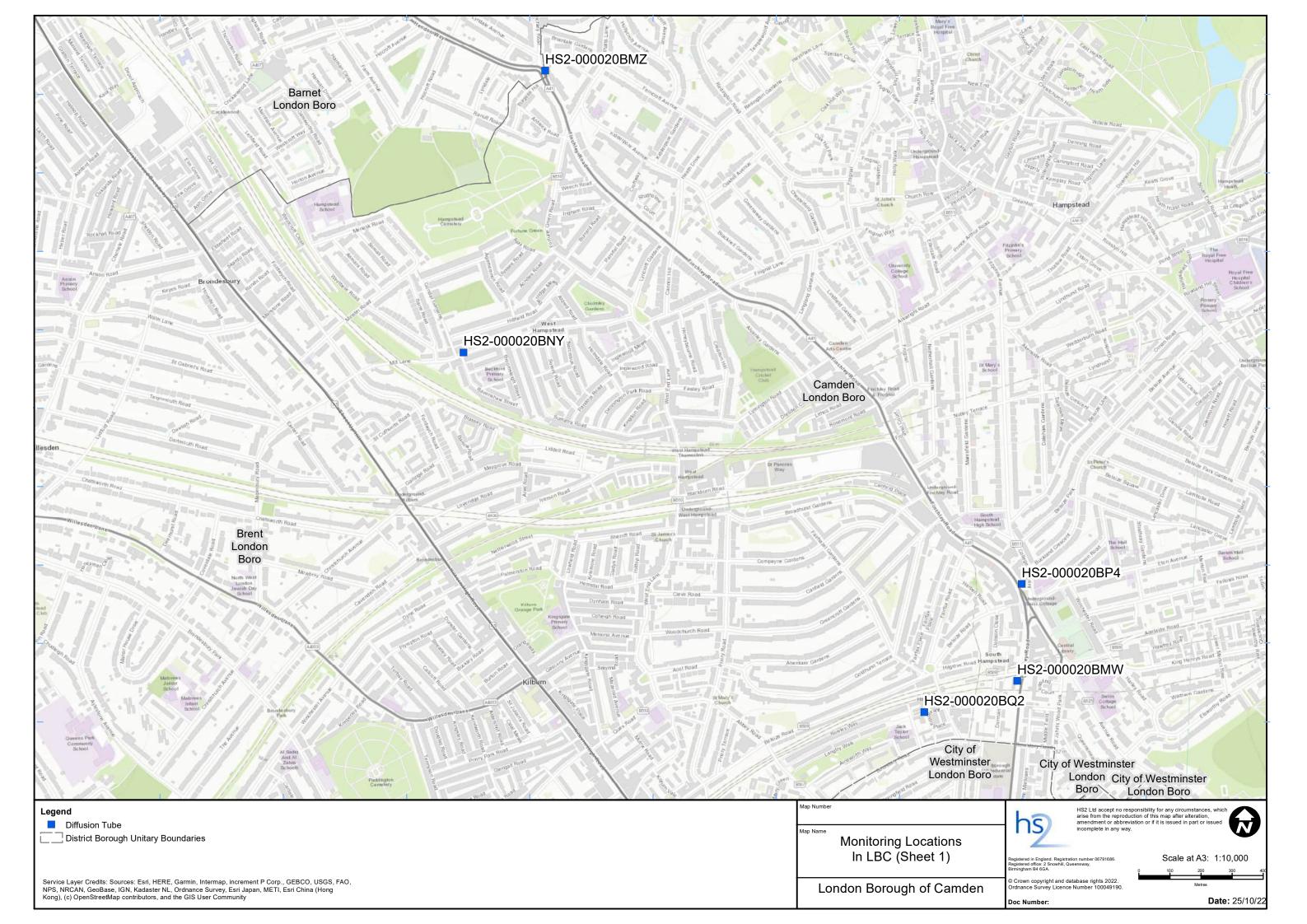
- Completed installation of 4 x ETCDS cables on the Northern line off Platforms 2 and 3 from Cabinets in TSS.
- Installed new CMS for re-routed cables.
- 1.1.5 Twenty-Two (22) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk 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 in Figure 6. All continuous dust

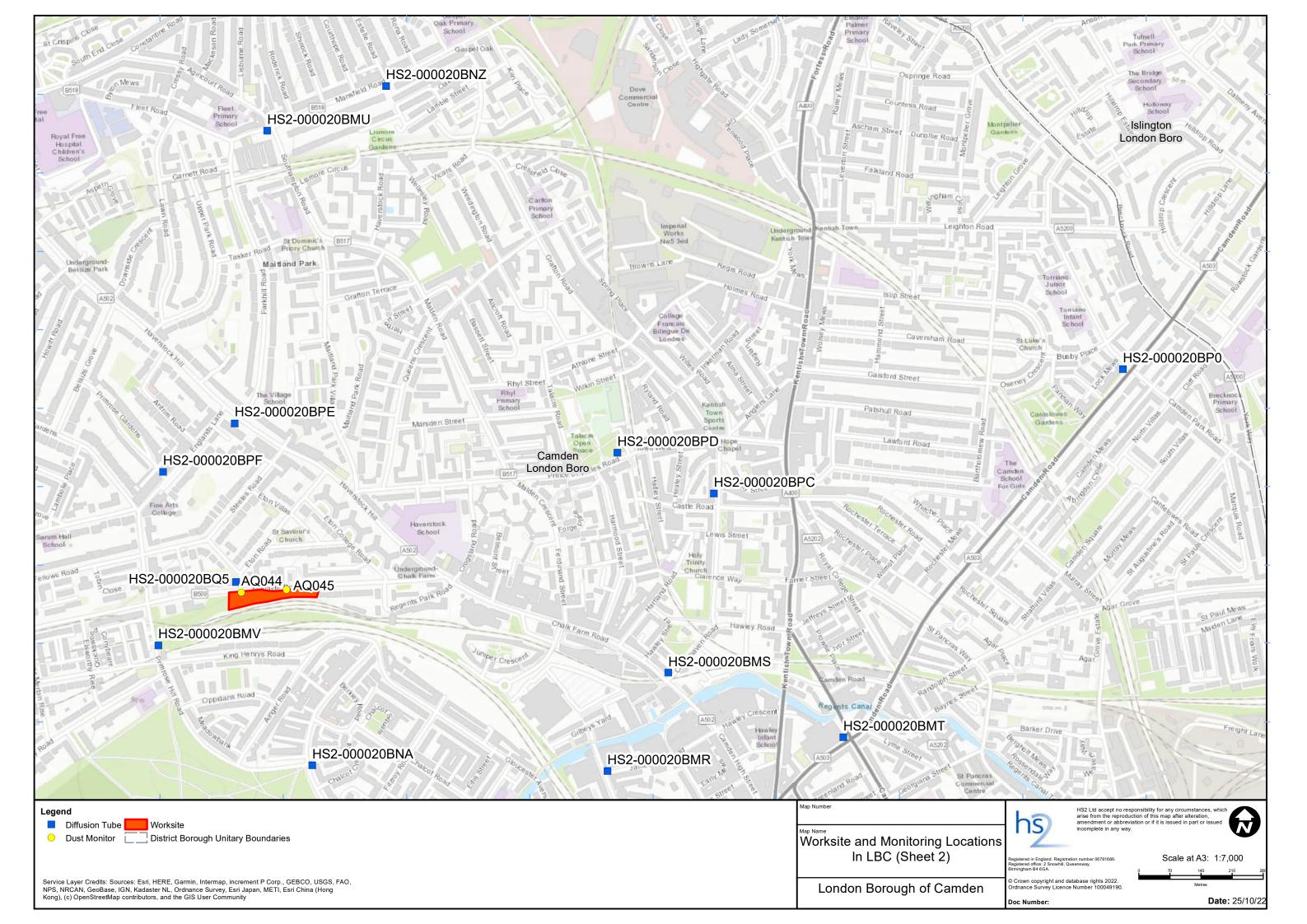
monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

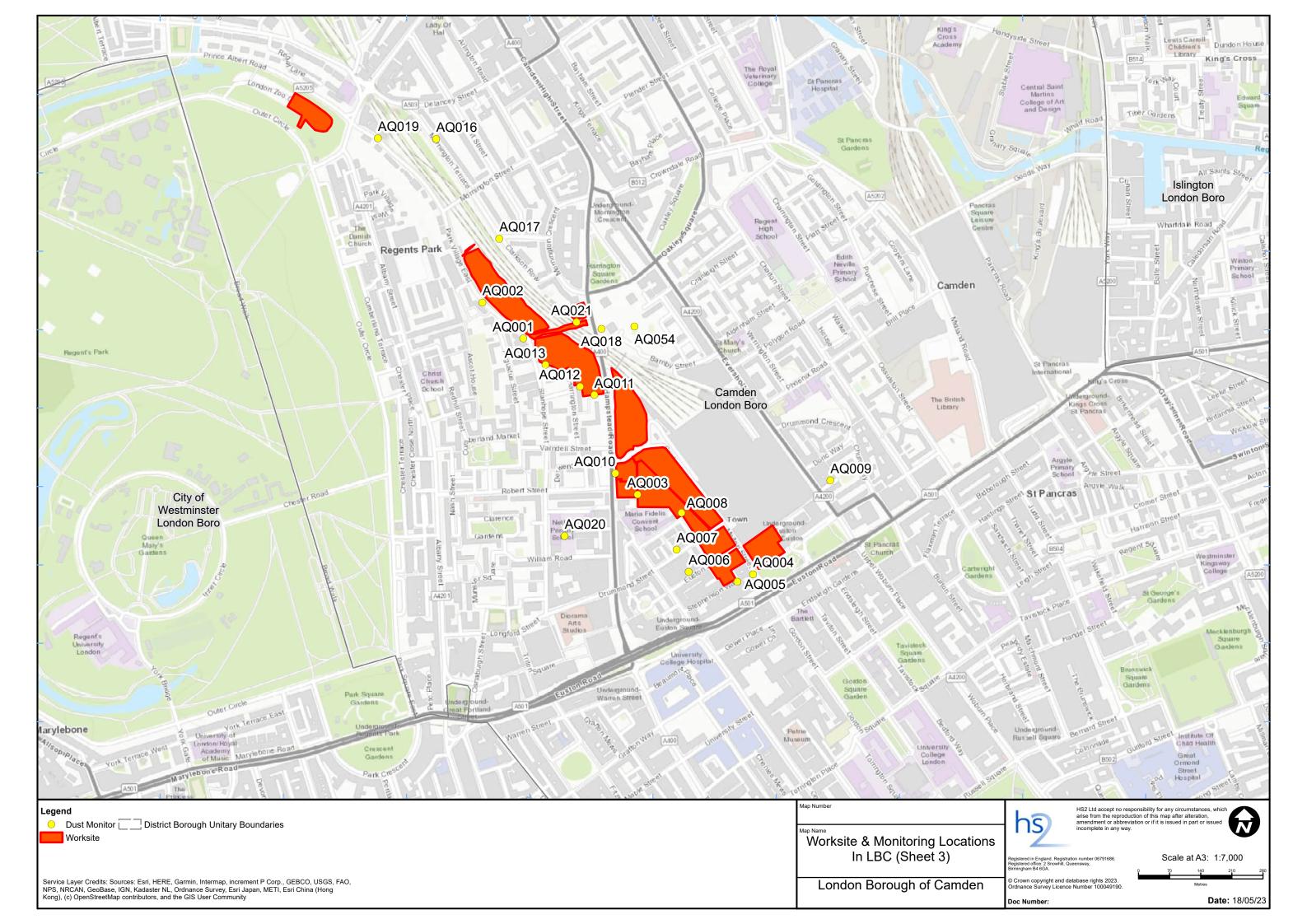
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 μg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)*' has been applied.
- 1.1.8 Details of the trigger alerts investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors due to:
 - AQ007 This is due to an airflow error with the unit. It has not been possible to fix the fault remotely and therefore a site visit has been scheduled to resolve this.
 - AQ001 power loss to the lighting column on which the monitor is mounted, still under investigation by a third party.
 - AQ021 a fault with the monitor.
 - Although data capture for AQ011 was nearly 100% (98%) a fault with the monitor / blockage was identified the extremely low readings. The monitor was subsequently replaced in June.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at sixty-four (64) locations around highways within the LBC 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 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 There were no (0) complaints received during the reporting period (May 2025).

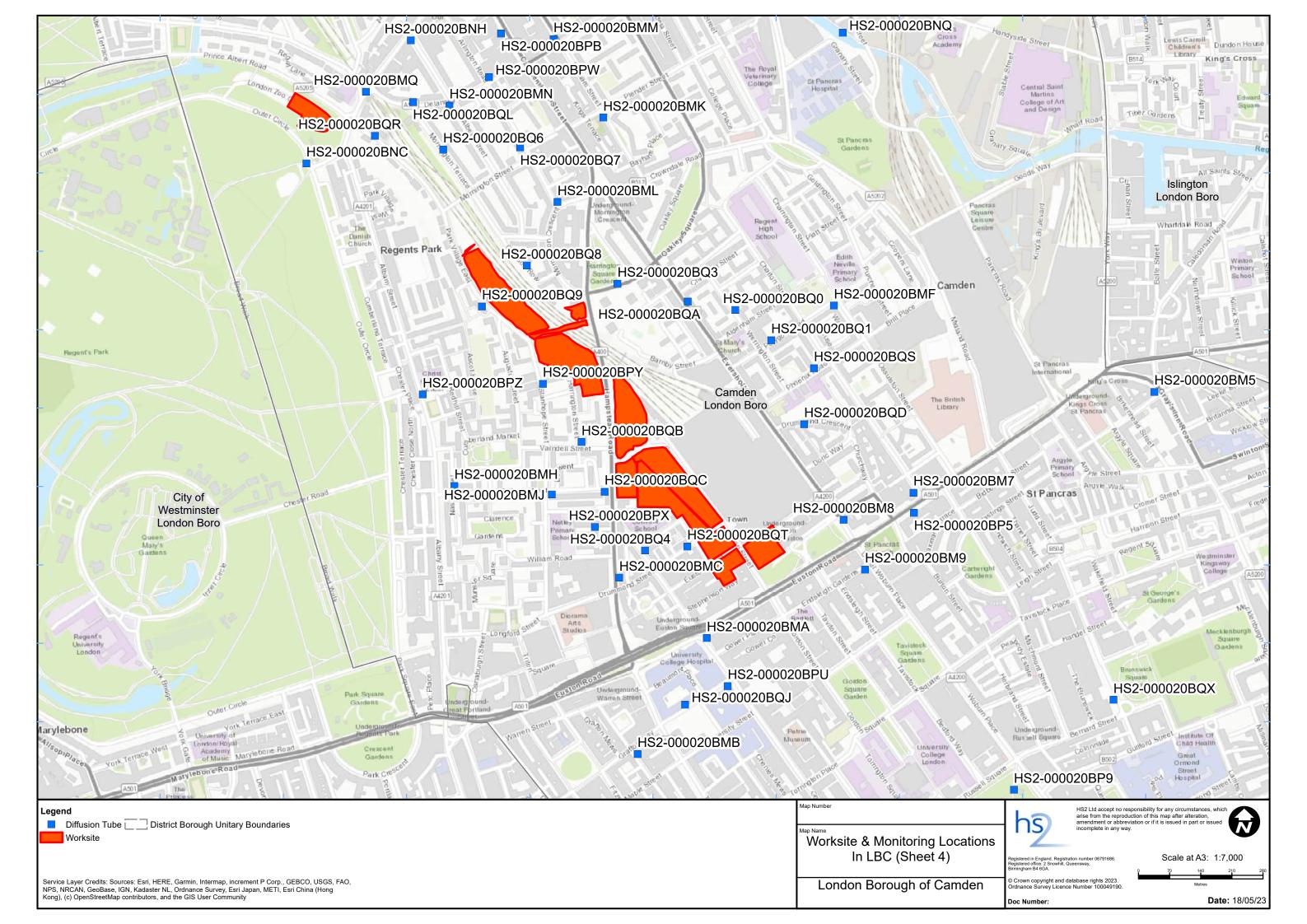
Appendix A – Worksites and Monitoring Locations

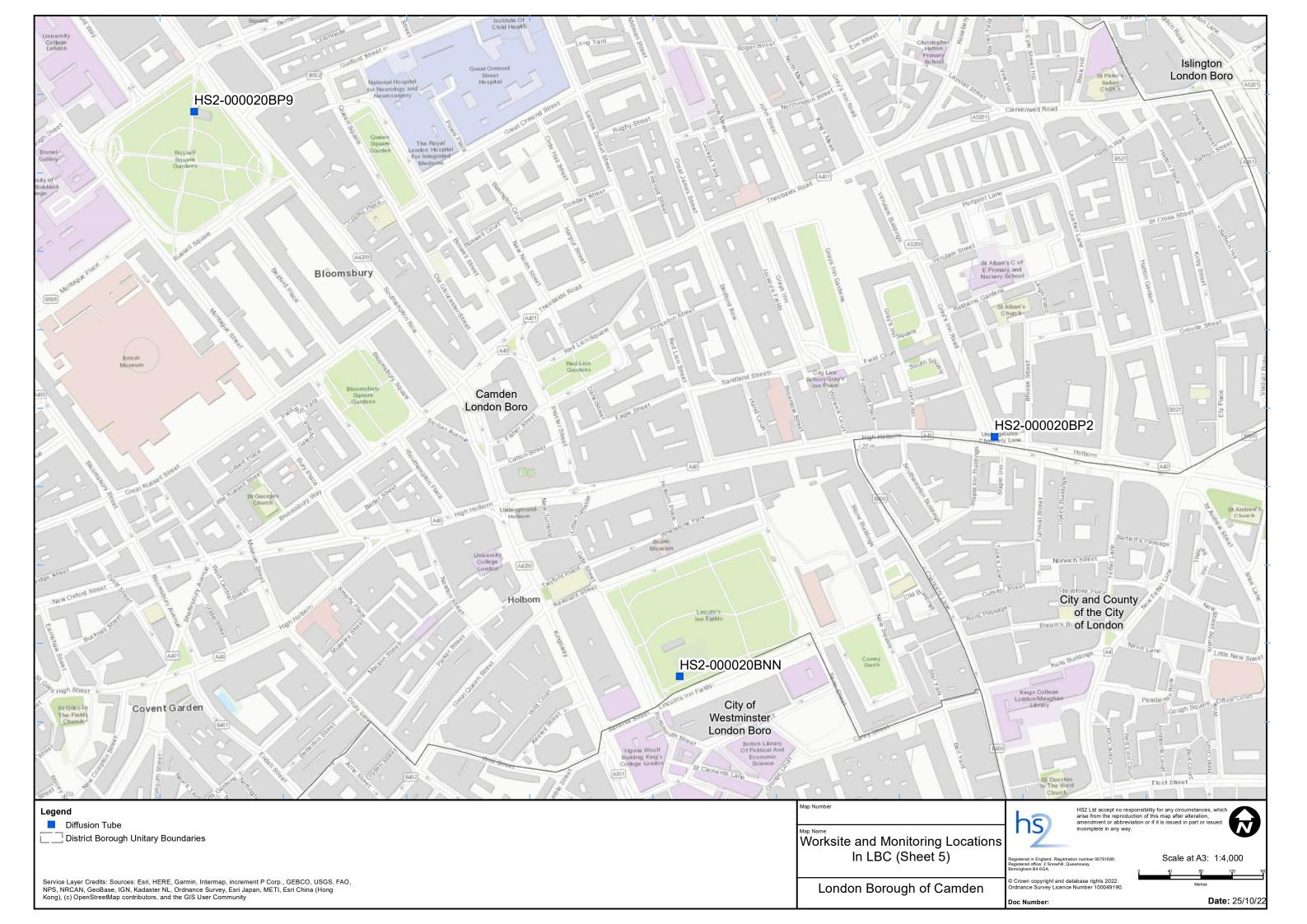
Figure 1 to Figure 5: Worksites and monitoring locations within the LBC











Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

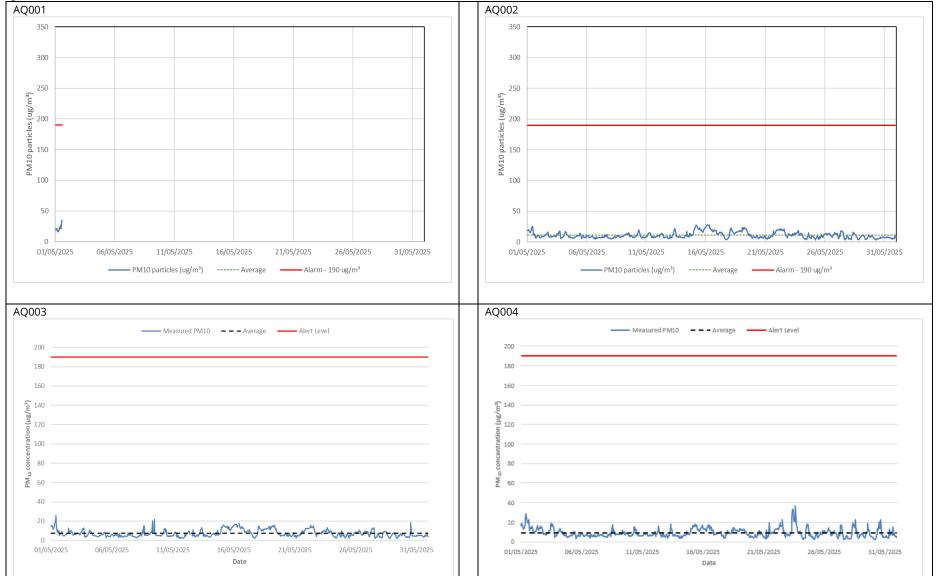
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (µg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ001	529016, 183049	Junction of Park Village East, Stanhope Street and Granby Terrace	М	Yes	N	22.0	15.6	34.4	0	1.9
AQ002	528924, 183130	Park Village East	м	Yes	N	11.0	3.4	27.9	0	100.0
AQ003	529273, 182698	St James' Gardens	М	Yes	N/A	7.3	2.0	26.2	0	99.5
AQ004	529533, 182519	Melton Street	Н	Yes	N/A	9.1	2.0	36.4	0	100.0
AQ005	529498, 182502	Stephenson Way	Н	Yes	N/A	9.0	0.8	95.1	0	100.0
AQ006	529388, 182524	Euston Street	Н	Yes	N/A	12.6	3.4	71.9	0	100.0
AQ007	529361, 182574	Drummond Street	Н	Yes	N/A	10.9	3.0	156.1	0	54.2
AQ008	529372, 182657	Cobourg Street	Н	Yes	N/A	17.3	4.5	64.8	0	100.0
AQ009	529707, 182730	Eversholt Street	Н	Yes	N/A	22.8	4.6	102.2	0	100.0
AQ010	529223, 182746	Hampstead Road South	М	Yes	N/A	21.1	3.9	369.1	1	100.0
AQ011	529176, 182922	Hampstead Road	М	Yes	Ν	4.9	0.1	65.6	0	97.8

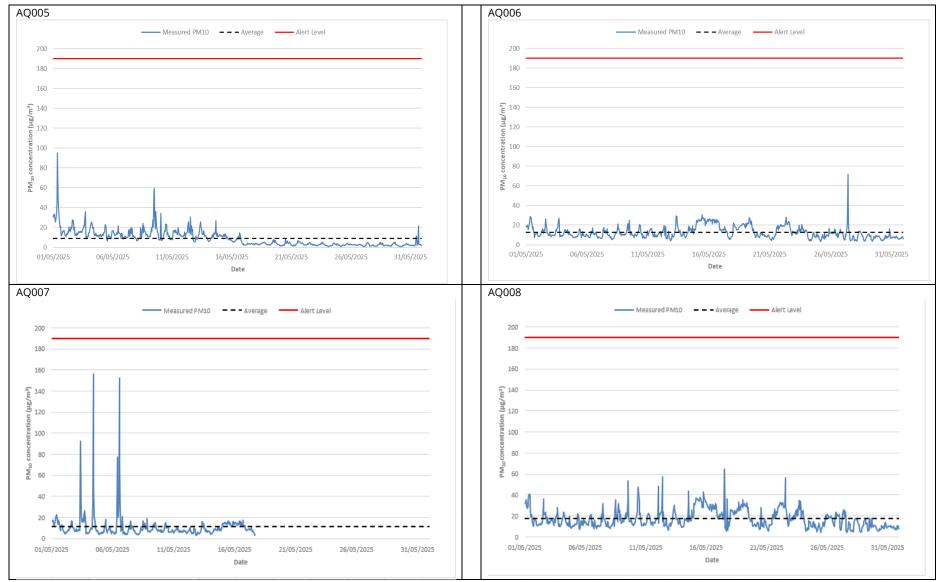
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m ³)	Maximum 1- hour PM ₁₀ concentration (μg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ012	529144, 182941	Rear of Coniston House	М	Yes	N	17.2	4.5	140.8	0	98.0
AQ013	529066, 182990	Regents Park Estate	М	Yes	N	10.9	3.1	33.8	0	100.0
AQ016	528820, 183498	Mornington Terrace North	М	Yes	N	14.6	2.9	43.8	0	100.0
AQ017	528962, 183274	Mornington Terrace South	М	Yes	N	10.6	0.4	125.7	0	100.0
AQ018	529192, 183071	Hampstead Road North	М	Yes	N	12.3	4.2	48.7	0	100.0
AQ019	528689, 183500	Park Village East (North)	М	Yes	N	12.6	2.4	34.8	0	100.0
AQ020	529109, 182605	Netley School	n/a	Yes	N/A	8.6	2.3	25.8	0	100.0
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge	М	Yes	Ν	10.1	3.5	34.0	0	33.5
AQ044	527725, 184369	Adelaide Road 1	М	Yes	N	14.8	4.0	36.9	0	91.1
AQ045	527826, 184375	Adelaide Road 2	М	Yes	N	15.6	3.4	54.7	0	100.0
AQ054	529266, 183076	Ampthill Estate, M Hampstead Road		Yes	N	22.5	5.0	57.0	0	98.5

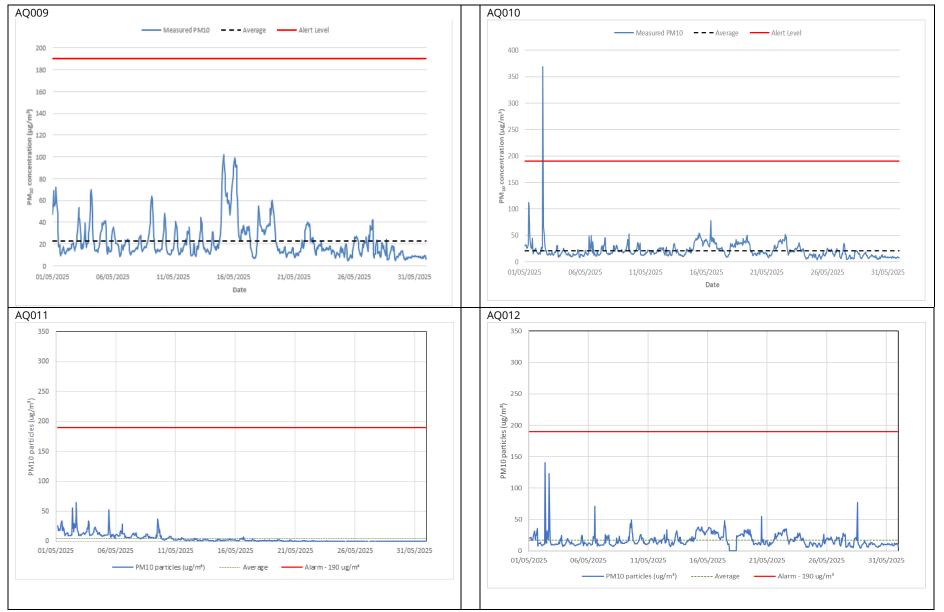
Table 2: Summary of exceedances during period (May 2025)

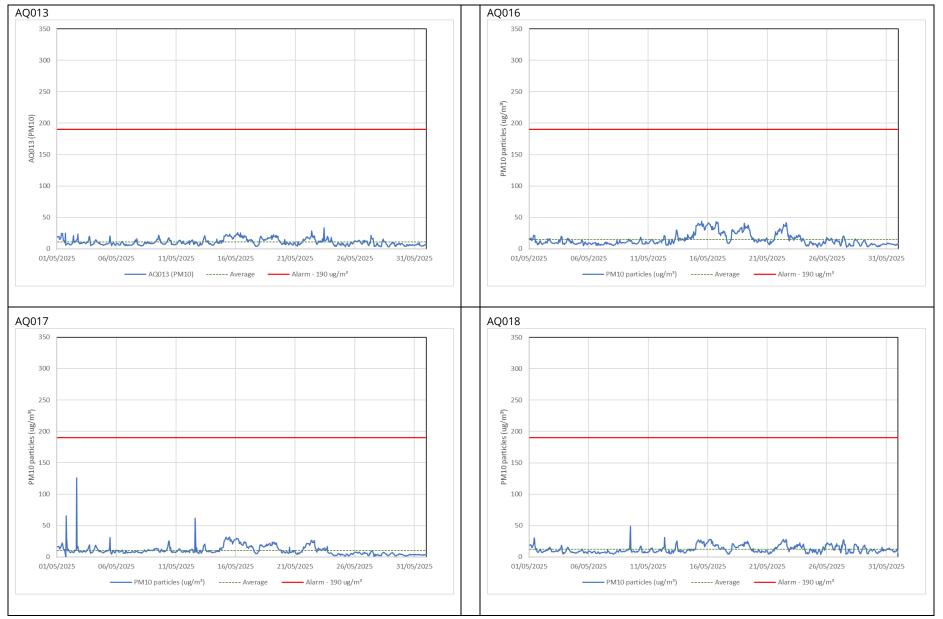
Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ010	02/05/2025: 11:01 – 12:00; 369.1 μg/m ³	Backfilling of the excavation using a 25-tonne excavator on MH01a. Best Practice Measures were implemented throughout the works, including damping down of dust.	Works were stopped and the methodology and Best Practice Measures were reviewed. Works then continued without any additional exceedances.

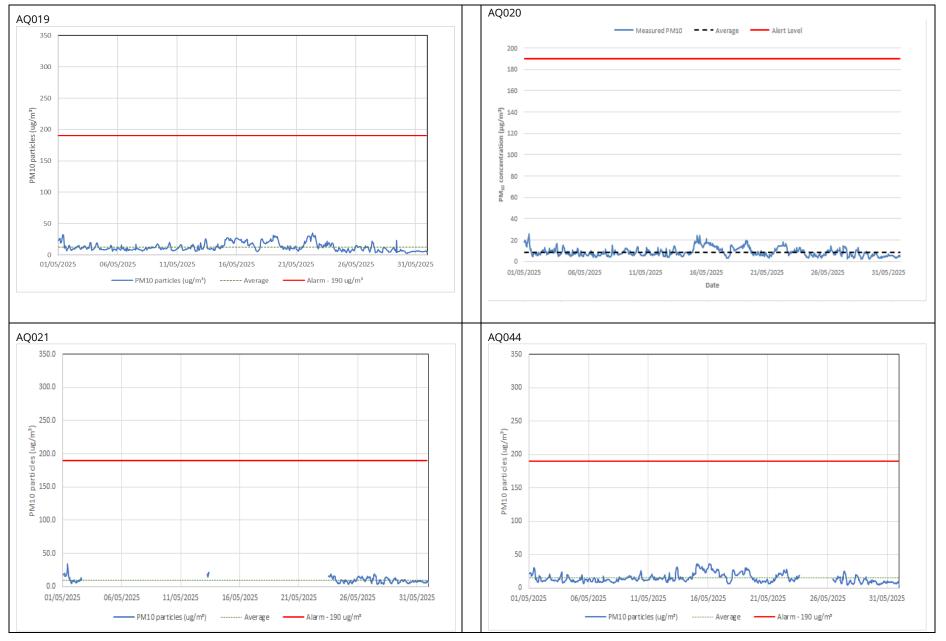
Figure 6: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

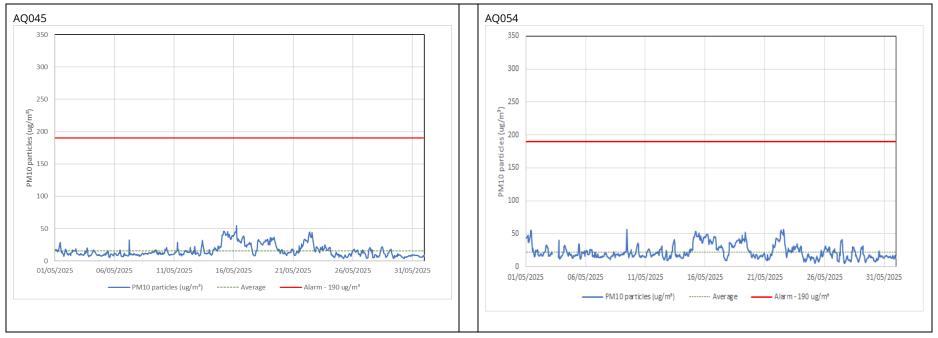












Appendix C – Air Quality Monitoring Results

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	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2- 000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	27	28	31	38									31
HS2- 000020BM7	Chalton Street	529894, 182702	47	41	47	Tube Missing									45
HS2- 000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	Tube Missing	46	51	49									49
HS2- 000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	45	35	47	42									42
HS2- 000020BMA	Junction of Euston Road and Gower Street	529429, 182375	14	45	40	41									35
HS2- 000020BMB	Whitfield Street	529273, 182114	28	42	33	37									35
HS2- 000020BMC	Hampstead Road	529232, 182511	54	38	41	52									46
HS2- 000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	35	29	35	39									34

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	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2- 000020BMH	Nash Street	528861, 182717	31	14	41	25									28
HS2- 000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	36	37	47	31									38
HS2- 000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	48	Tube Missing	30	37									38
HS2- 000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	35	32	48	32									37
HS2- 000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	42	31	52	37									40
HS2- 000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	35	31	60	28									39
HS2- 000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	51	38	36	38									41
HS2- 000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	32	Erroneous Data	40	28									34
HS2- 000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	44	34	33	39									37
HS2- 000020BMT	Junction of Camden Road and Camden Street	529079, 184043	44	39	35	40									39
HS2- 000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	41	35	31	38									36

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2- 000020BMV	Primrose Hill Road	527538, 184250	38	28	42	27									34
HS2- 000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	48	39	39	38									41
HS2- 000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	58	62	49	52									55
HS2- 000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	16	27	36	25									26
HS2- 000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	29	24	38	25									29
HS2- 000020BNH	Junction of Parkway and Albert Street	528763, 183720	39	33	44	34									37
HS2- 000020BNN	Lincoln's Inn Fields	530744, 181308	35	19	56	26									34
HS2- 000020BNQ	Camley Street	529735, 183737	45	33	39	32									37
HS2- 000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	39	36	40	33									37
HS2- 000020BNZ	Mansfield Road	528050, 185508	Tube Missing	26	52	28									35
HS2- 000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	29	37	42	39									37
HS2- 000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	50	34	24	29									34

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2- 000020BPB	Camden High Street	528966, 183735	44	43	Tube Missing	46									44
HS2- 000020BPC	Castlehaven Road	528788, 184591	37	31	39	25									33
HS2- 000020BPD	Prince of Wales Road	528571, 184683	29	31	43	Tube Missing									34
HS2- 000020BPE	Haverstock Hill	527710, 184749	43	28	32	27									32
HS2- 000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	24	33	36	37									33
HS2- 000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	45	47	34	39									41
HS2- 000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	36	36	37	37									36
HS2- 000020BPX	Netley Street	529177, 182625	19	33	35	32									30
HS2- 000020BPY	Stanhope Street	529060, 182947	33	23	36	28									30
HS2- 000020BPZ	Albany Street	528790, 182923	36	30	42	30									34
HS2- 000020BQ0	Werrington Street	529493, 183113	35	34	40	30									34
HS2- 000020BQ1	Polygon Road	529574, 183045	36	26	28	30									30
HS2- 000020BQ2	Alexandra Place	526320, 183980	28	27	35	25									28
HS2- 000020BQ3	Harrington Square	529228, 183172	39	30	42	38									37
HS2- 000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	37	35	55	35									41

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2- 000020BQ5	Adelaide Road	527713, 184392	40	32	39	31									35
HS2- 000020BQ6	Mornington Terrace	528836, 183474	32	28	51	24									34
HS2- 000020BQ7	Arlington Road	529009, 183479	35	4	28	24									23
HS2- 000020BQ8	Clarkson Row	529024, 183213	34	Tube Missing	35	26									32
HS2- 000020BQ9	Park Village East	528923, 183121	1	33	Tube Missing	26									20
HS2- 000020BQA	Eversholt Street	529386, 183132	46	38	29	41									39
HS2- 000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	35	32	31	27									31
HS2- 000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	41	43	35	43									41
HS2- 000020BQD	Drummond Crescent	529648, 182856	40	21	28	Tube Missing									30
HS2- 000020BQJ	Grafton Way	529380, 182225	50	33	51	36									43
HS2- 000020BQL	Delancey Street	528768, 183581	40	27	37	34									34
HS2- 000020BQR	Lamp post on Park Village East	528682, 183505	36	30	44	28									35
HS2- 000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	16	23	40	26									26
HS2- 000020BQT	Drummond Street	529385, 182581	29	33	34	30									31
HS2- 000020BQX	Lamp post on Brunswick Square	530344, 182236	39	33	35	28									34

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2- 000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	40	28	37	44									37
HS2- 000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	48	45	31	59									46
HS2- 000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	40	34	38	32									36