March 2024



Air Quality and Dust Monitoring Monthly Report - March 2024

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 February 2024 and March 2024 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 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 5, include:

Skanska Costain Strabag Joint Venture (SCSjv)

Adelaide Road Vent Shaft

• Limited groundworks.

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 concrete;
- · Groundworks; and
- Materials Management.

Mace Dragados Joint Venture (MDjv)

TSS

- B3-B2 Gantry is complete;
- GRP panels B3 Sump;
- Mess Room Tiling ongoing;
- Floor painting B1 & B2;
- All access hatches now installed;
- Demountable Panels & Flood Control;
- Firestopping of doors & dampers ongoing;
- Stair 1 & Stair 2 handrail installation; and
- Attenuator Kemwell.

Maria Fidelis

- Complete L1-L5 all plaster boarding works;
- Started cleaning L1-5;
- Finishing M&E works all levels;
- Started FFE fit out L1-L4;
- Kitchen fit out on L1; and
- Finishing roof works.

Utilities

- Main site MH3 completed tunnel drive to MH1a;
- MH5 Dry Weather Flow Channel install to MH8;
- Cobourg Street LUL Chamber 2 commenced excavation of nested cofferdam next to Magic Circle building; trench excavation between chambers 1 and 2;
- MH9 completed permanent MH construction;
- MH10 completed permanent MH construction;
- Melton Street 42' connection completed sawcut and manual breakout road surface to 1.2m level; work on hold pending Thames Water PtW approval; and
- Sites set up and excavation at Robert Street and Cumberland Market areas for DI1000 Ph1 commissioning.

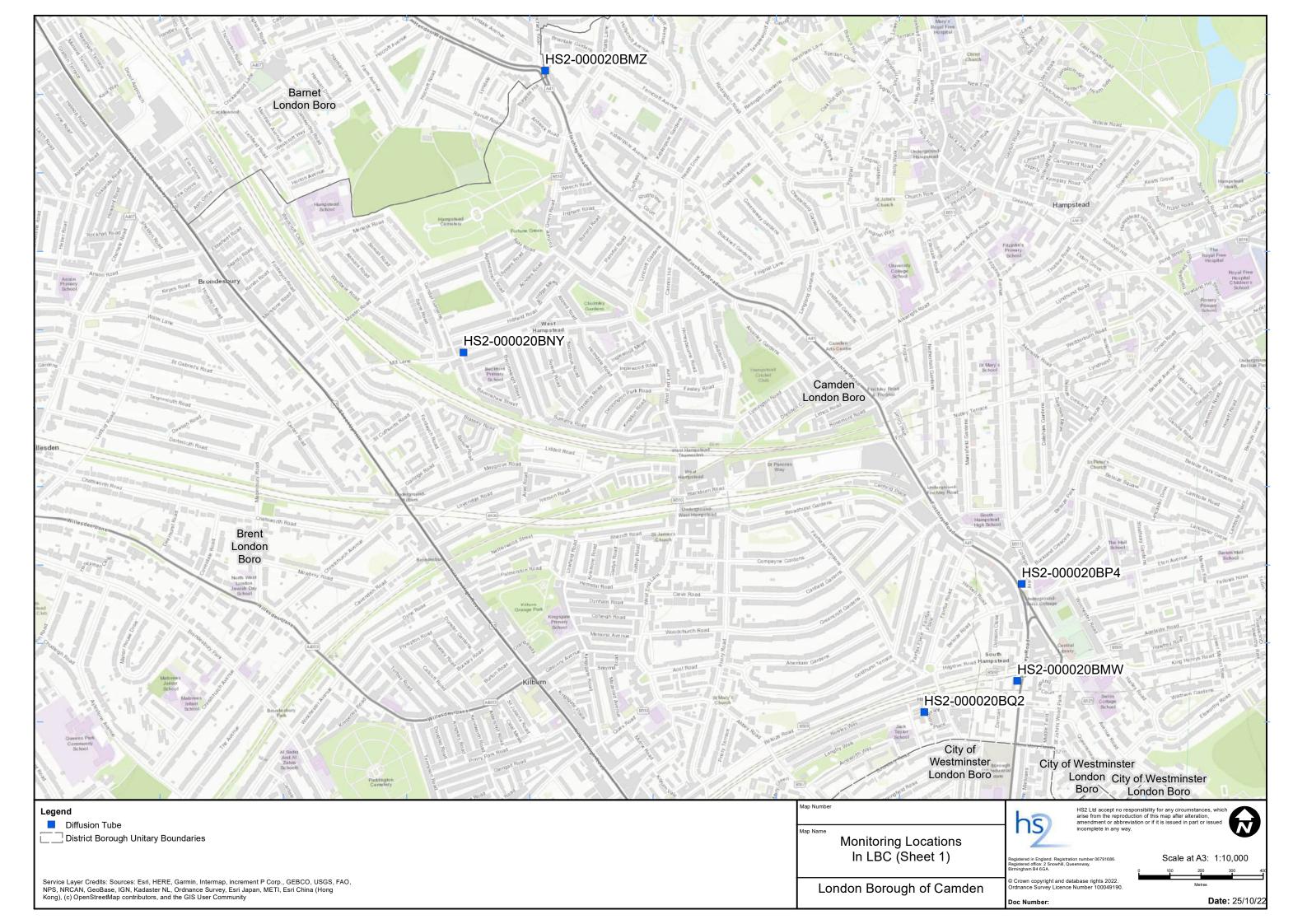
<u>ITR</u>

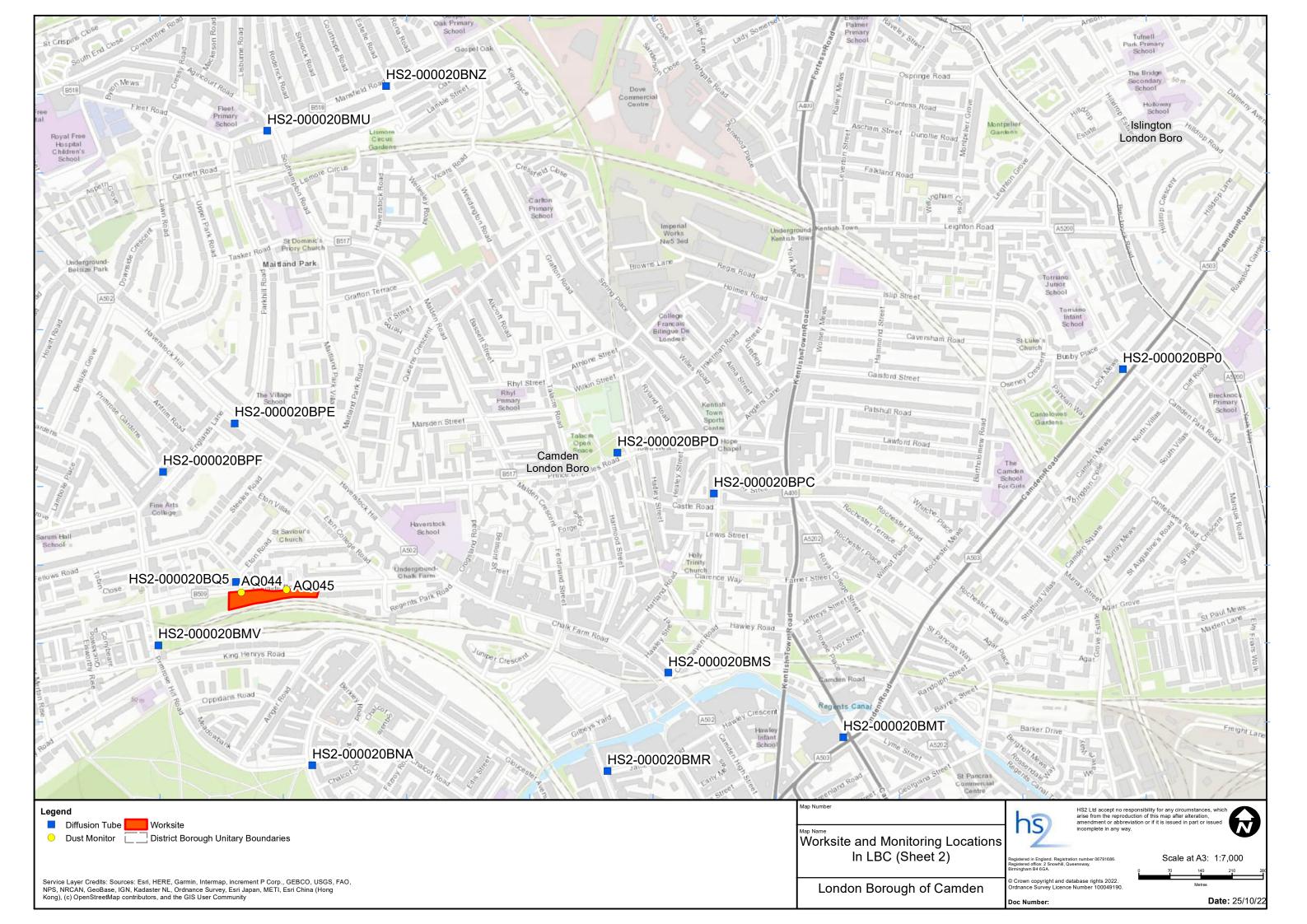
- Heritage railing collect from Acton storage & position;
- Canopy snagging;
- PHP set up & test for comms connection;
- Preparing railings for painting 7 start painting;
- Remove cycle stands from Euston Road;
- Commission and VMS on outer route areas;
- Signage changes for new layouts;
- CCTV commissioning;
- Paving adjustments around Lodge building; and
- Connections for comms in NR CER.

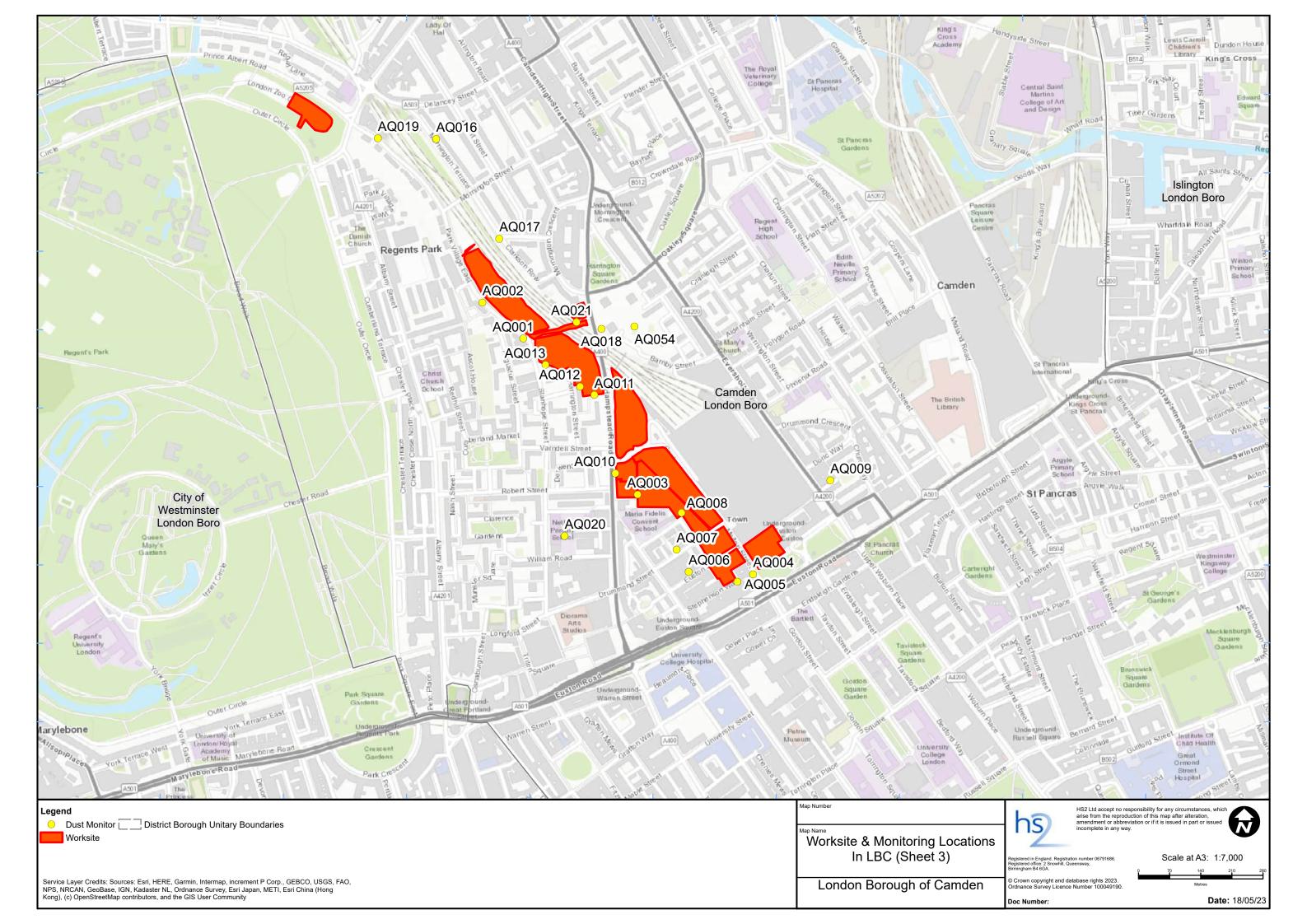
- 1.1.5 Twenty-Two (22) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor 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. Low data capture at AQ009 was due to communication issues in the unit's webserver that have since been resolved. Low data capture at AQ019 and AQ054 was due to a loss of power to the monitors that have since been restored.
- 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 2024 running mean.
- 1.1.13 There were no (0) complaints received during the reporting period (March 2024).

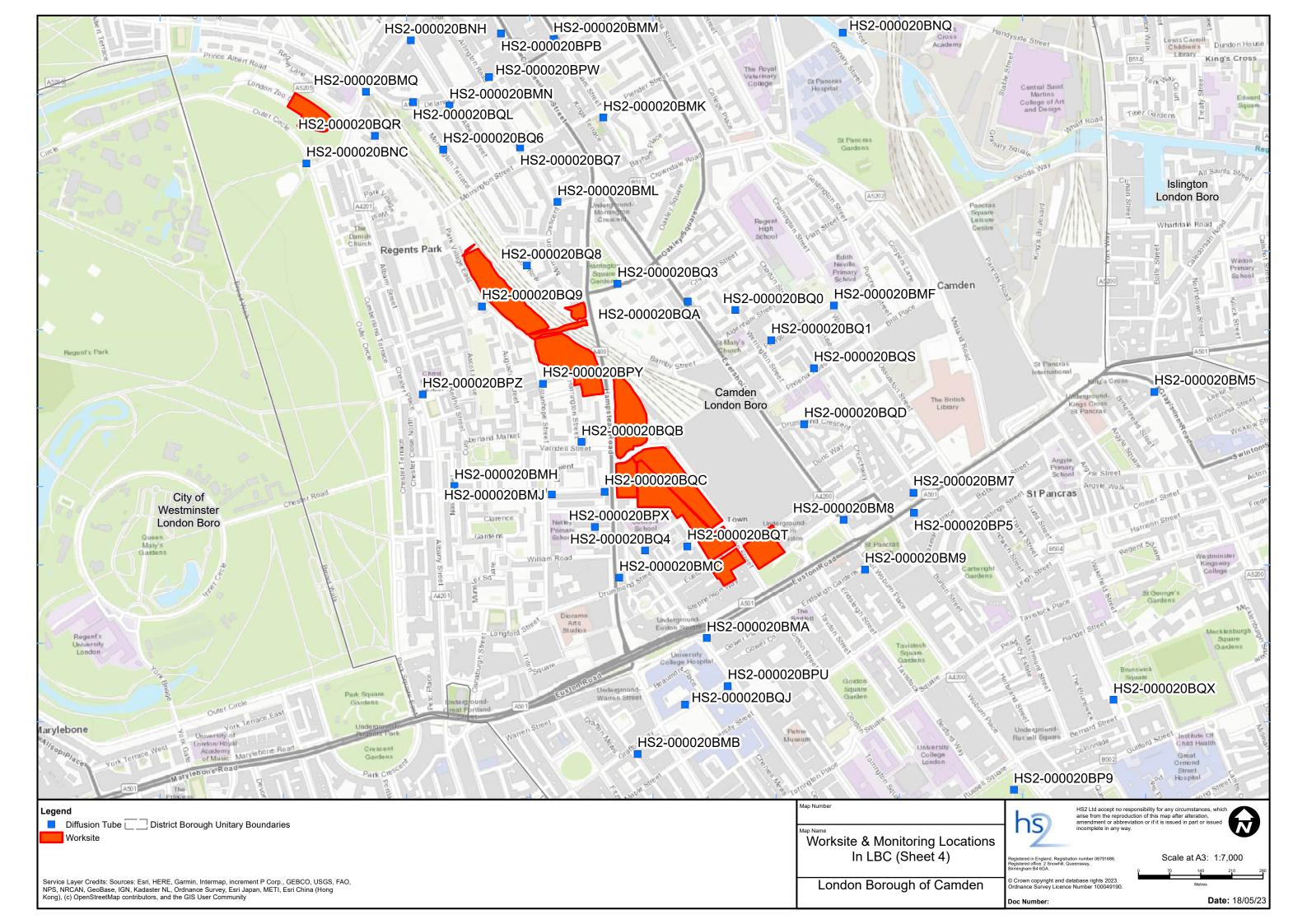
Appendix A – Worksites and Monitoring Locations

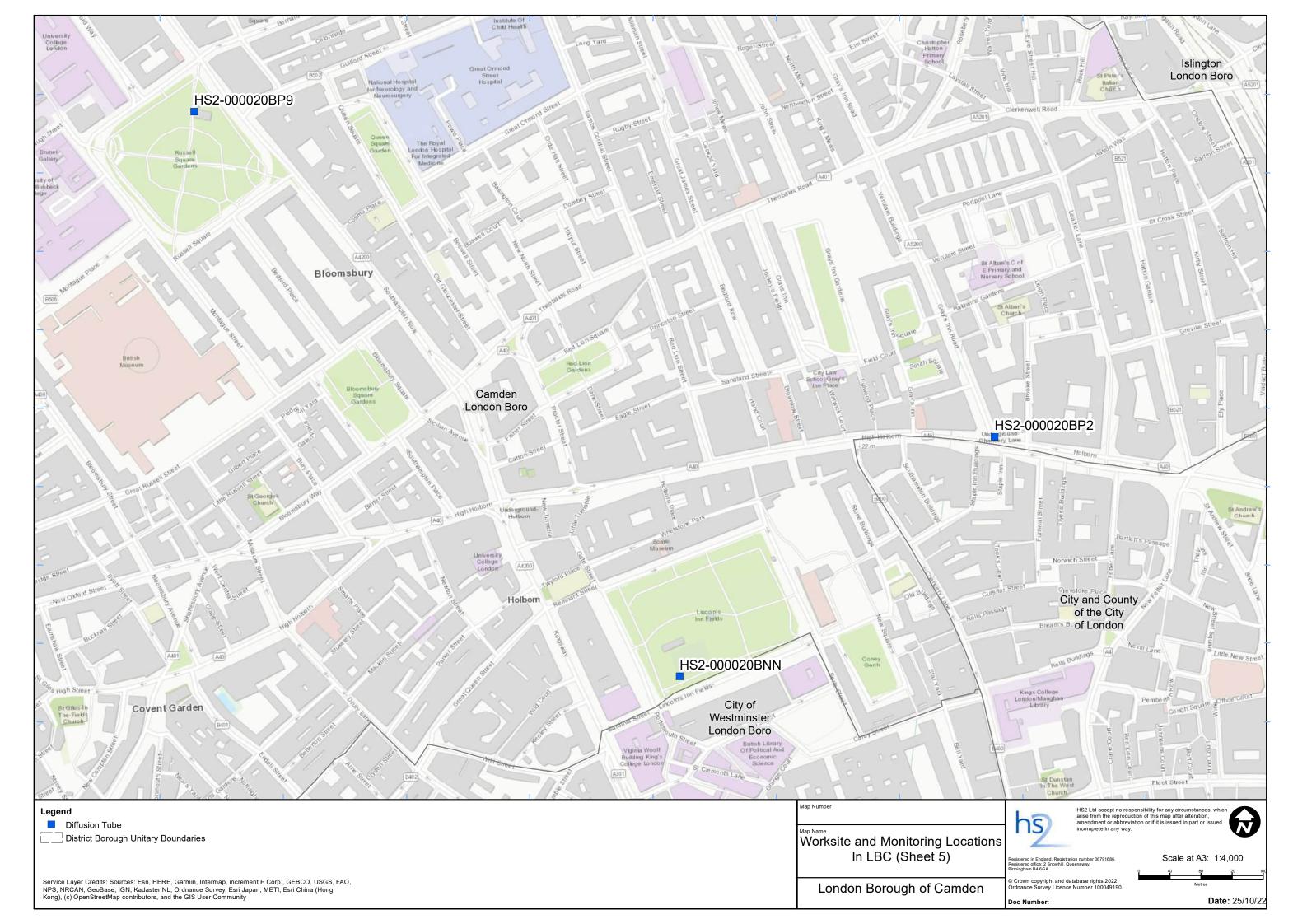
Figure 1 to Figure 5: Worksites and monitoring locations within the LBC











Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

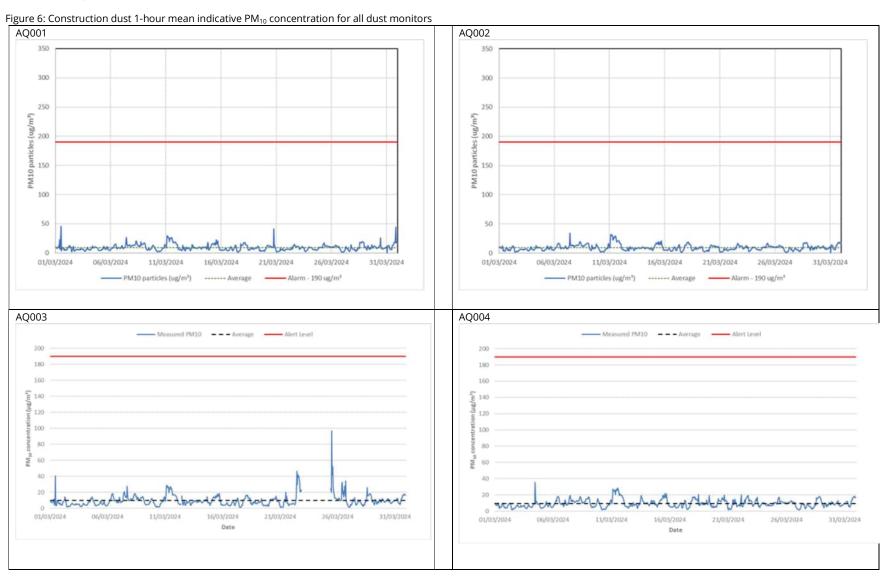
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (μg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture (%)
AQ001	529016, 183049	Junction of Park Village East, Stanhope Street and Granby Terrace	М	Yes	N	9.2	1.2	45.6	0	99.9
AQ002	528924, 183130	Park Village East	М	Yes	N	9.1	0.0	33.8	0	100.0
AQ003	529273, 182698	St James' Gardens	М	Yes	N/A	9.8	1.1	97.0	0	91.8
AQ004	529533, 182519	Melton Street	Н	Yes	N/A	9.5	1.5	35.6	0	100.0
AQ005	529498, 182502	Stephenson Way	Н	Yes	N/A	22.8	3.1	122.1	0	99.9
AQ006	529388, 182524	Euston Street	Н	Yes	N/A	10.1	1.5	42.1	0	100.0
AQ007	529361, 182574	Drummond Street	Н	Yes	N/A	7.7	1.1	62.7	0	100.0
AQ008	529372, 182657	Cobourg Street	Н	Yes	N/A	13.6	1.5	100.9	0	99.6
AQ009	529707, 182730	Eversholt Street	Н	Yes	N/A	37.9	4.9	208.7	2	61.8
AQ010	529223, 182746	Hampstead Road South	М	Yes	N/A	18.0	1.8	75.3	0	100.0
AQ011	529176, 182922	Hampstead Road	М	Yes	N	13.2	1.7	90.6	0	99.9

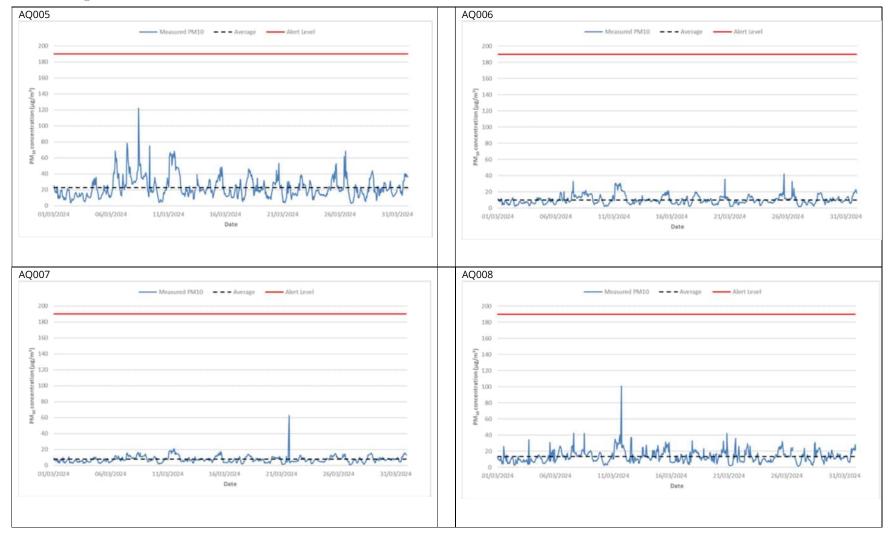
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (μg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (µg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture (%)
AQ012	529144, 182941	Rear of Coniston House	М	Yes	N	9.5	1.3	53.6	0	99.9
AQ013	529066, 182990	Regents Park Estate	М	Yes	N	8.8	1.3	28.5	0	99.9
AQ016	528820, 183498	Mornington Terrace North	М	Yes	N	8.8	1.1	30.8	0	99.7
AQ017	528962, 183274	Mornington Terrace South	М	Yes	N	9.5	1.1	85.6	0	99.9
AQ018	529192, 183071	Hampstead Road North	М	Yes	N	9.0	1.2	32.2	0	99.9
AQ019	528689, 183500	Park Village East (North)	М	Yes	N	9.9	1.2	35.0	0	86.7
AQ020	529109, 182605	Netley School	n/a	Yes	N/A	11.7	1.6	41.6	0	100.0%
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge	М	Yes	N	10.4	1.6	35.8	0	99.9
AQ044	527725, 184369	Adelaide Road 1	М	Yes	N	5.9	0.2	134.6	0	99.7
AQ045	527826, 184375	Adelaide Road 2	М	Yes	N	9.6	1.2	37.9	0	99.9
AQ054	529266, 183076	Ampthill Estate, Hampstead Road	М	Yes	N	17.6	1.3	1127.5	8	76.1

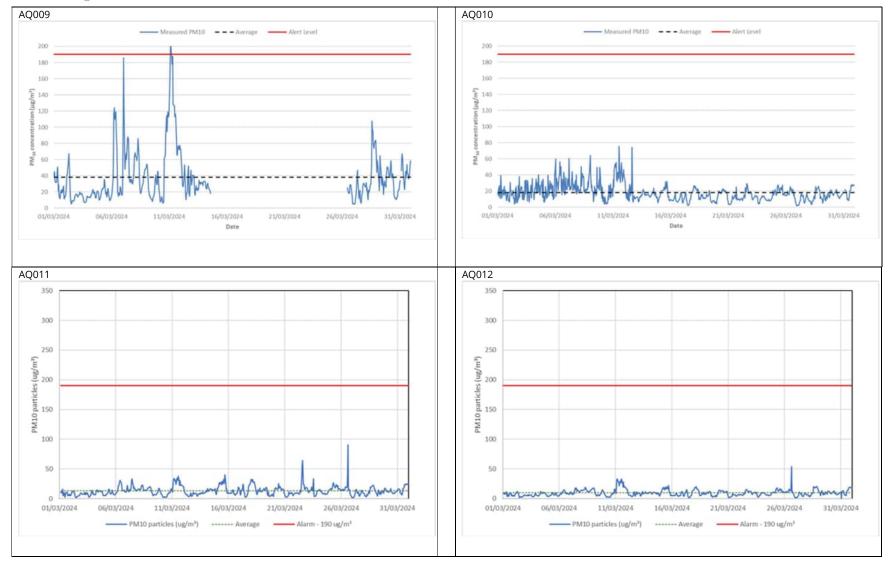
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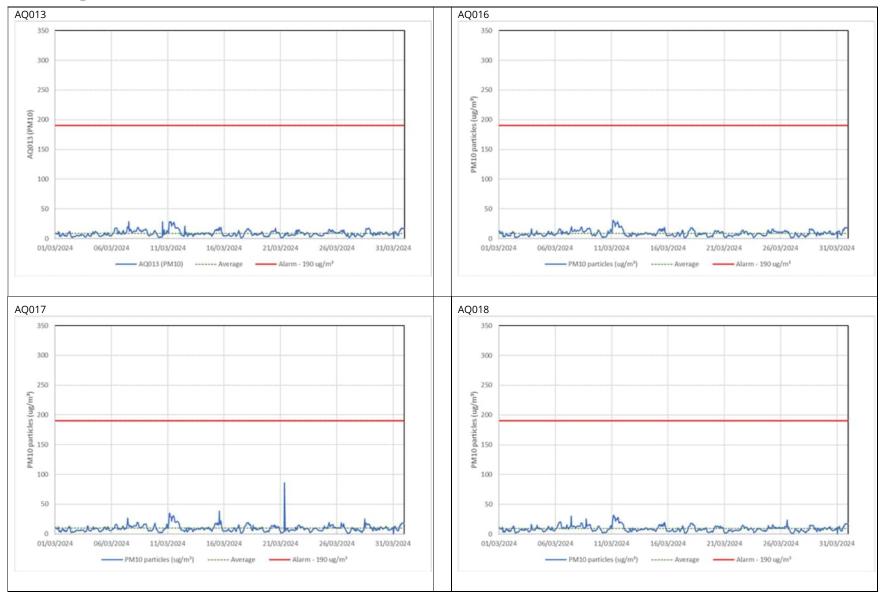
Table 2: Summary of exceedances during period (March 2024)

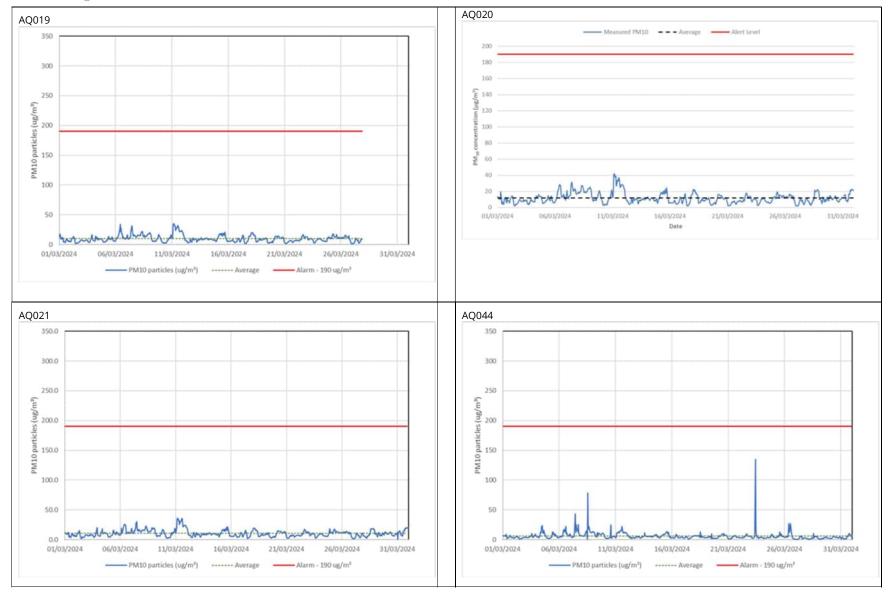
Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ009	11/03/2024 02:01 – 03:00; 208.7 μg/m³ 03:01 – 04:00; 198.1 μg/m³	Exceedances occurred at times when there were minimal or no works related to HS2 being undertaken in the vicinity of the monitor. The exceedances are therefore thought to not be associated with HS2.	MDJV will continue to ensure all the activities being undertaken have appropriate mitigation measures applied (in line with the CoCP). Any further exceedances at this monitor will continue to be investigated to confirm whether the exceedance is caused by HS2 activities.
AQ054	10/03/2024 17:01 – 18:00; 300.1 µg/m³ 18:01 – 19:00; 485.0 µg/m³ 19:01 – 20:00; 264.3 µg/m³ 20:01 – 21:00; 419.5 µg/m³ 21:01 – 22:00; 427.5 µg/m³ 22:01 – 23:00; 396.6 µg/m³ 23:01 – 00:00; 762.52 µg/m³ 11/03/2024 00:01 – 01:00; 1127.5 µg/m³	At the time of the exceedance the site was shut and there were no dusty site works taking place near the monitoring location. It is considered triggers were false due to power outage to the monitor affecting the pump and heater. The monitor had experienced a couple of power outages during the monitoring period.	Power was restored on the 14/04/24



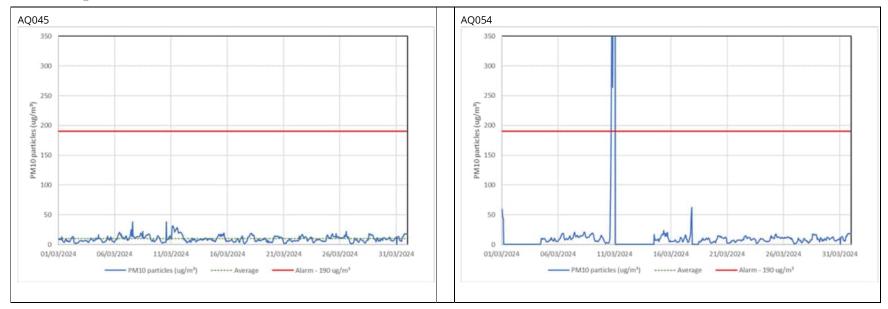








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Appendix C – Air Quality Monitoring Results

Table 3: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2024 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2- 000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	44	43											44
HS2- 000020BM7	Chalton Street	529894, 182702	Tube Missing	45											45
HS2- 000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	Tube Missing	39											39
HS2- 000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	44	Tube Missing											44
HS2- 000020BMA	Junction of Euston Road and Gower Street	529429, 182375	56	50											53
HS2- 000020BMB	Whitfield Street	529273, 182114	39	35											37
HS2- 000020BMC	Hampstead Road	529232, 182511	55	62											59
HS2- 000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	32	27											30
HS2- 000020BMH	Nash Street	528861, 182717	34	27											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.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2- 000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	31	31											31
HS2- 000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	45	42											43
HS2- 000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	36	30											33
HS2- 000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	39	Tube Missing											39
HS2- 000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	34	32											33
HS2- 000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	38	36											37
HS2- 000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	30	28											29
HS2- 000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	43	41											42
HS2- 000020BMT	Junction of Camden Road and Camden Street	529079, 184043	46	41											43
HS2- 000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	40	30											35
HS2- 000020BMV	Primrose Hill Road	527538, 184250	Tube Missing	31											31

Monitoring	Location	Coordinates	lan	Feb	Mar	Anv	May	lun	tot	Διια	Son	Oct	Nov	Dec	Mean ¹
Site ID	description	(X, Y)	Jan	reb	IVIAT	Apr	May	Jun	Jul	Aug	Sep	Oct	NOV	Dec	wean
HS2- 000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	43	45											44
HS2- 000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	54	54											54
HS2- 000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	29	29											29
HS2- 000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	29	22											26
HS2- 000020BNH	Junction of Parkway and Albert Street	528763, 183720	33	30											31
HS2- 000020BNN	Lincoln's Inn Fields	530744, 181308	23	33											28
HS2- 000020BNQ	Camley Street	529735, 183737	38	36											37
HS2- 000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	42	39											40
HS2- 000020BNZ	Mansfield Road	528050, 185508	35	31											33
HS2- 000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	45	51											48
HS2- 000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	36	35											36
HS2- 000020BPB	Camden High Street	528966, 183735	59	52										-	55
HS2- 000020BPC	Castlehaven Road	528788, 184591	29	27											28

Monitoring	Location	Coordinates	lan	Feb	Ман	A 10 11	May	Lun	lul.	A	Com	0.04	New	Dog	Mean ¹
Site ID	description	(X, Y)	Jan	reb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	wean.
HS2- 000020BPD	Prince of Wales Road	528571, 184683	26	26											26
HS2- 000020BPE	Haverstock Hill	527710, 184749	40	39											40
HS2- 000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	41	37											39
HS2- 000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	43	42											42
HS2- 000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	27	28											28
HS2- 000020BPX	Netley Street	529177, 182625	36	30											33
HS2- 000020BPY	Stanhope Street	529060, 182947	Tube Missing	26											26
HS2- 000020BPZ	Albany Street	528790, 182923	34	25											30
HS2- 000020BQ0	Werrington Street	529493, 183113	35	26											31
HS2- 000020BQ1	Polygon Road	529574, 183045	27	33											30
HS2- 000020BQ2	Alexandra Place	526320, 183980	29	29											29
HS2- 000020BQ3	Harrington Square	529228, 183172	43	37											40
HS2- 000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	33	33											33
HS2- 000020BQ5	Adelaide Road	527713, 184392	32	34											33
HS2- 000020BQ6	Mornington Terrace	528836, 183474	30	26											28

Monitoring	Location	Coordinates	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
Site ID	description	(X, Y)	Juli		ivia:	7.401	inay	Juli	Ju.	7108	БСР	000			Mean
HS2- 000020BQ7	Arlington Road	529009, 183479	27	26											26
HS2- 000020BQ8	Clarkson Row	529024, 183213	32	26											29
HS2- 000020BQ9	Park Village East	528923, 183121	30	24											27
HS2- 000020BQA	Eversholt Street	529386, 183132	43	28											35
HS2- 000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	32	28											30
HS2- 000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	40	35											37
HS2- 000020BQD	Drummond Crescent	529648, 182856	39	36											38
HS2-000020BQJ	Grafton Way	529380, 182225	40	47											44
HS2- 000020BQL	Delancey Street	528768, 183581	36	29											33
HS2- 000020BQR	Lamp post on Park Village East	528682, 183505	33	22											27
HS2- 000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	34	32											33
HS2- 000020BQT	Drummond Street	529385, 182581	27	33											30
HS2- 000020BQX	Lamp post on Brunswick Square	530344, 182236	36	39											38
HS2- 000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	49	40											44

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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 ¹
HS2- 000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	57	Tube Missing											57
HS2- 000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	34	30											32