

Air Quality and Dust Monitoring Monthly Report – May 2024

London Borough of Camden



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 Camden (LBC) during April 2024 and May 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

- TSS ductwork install & pipework install & VRF.
- Fit out works to B3.
- Mep Works B1, 2, ground floor, Level 1, 2, 3.
- Strip out existing TSS office

MF Modular Building

- Ongoing L1 Canteen power and water install & waste connections to CSC Area
- CSC floor paint remedial – acid etch & painting.
- Level 5 brown roof install.
- MF roof handrail install.

MF Substations

- Screeding and painting.

UKPN

- Joint bay 10 on Hampstead Road jointing
- Joint bay 7, 9 & 11 on Euston Road.
- Joint bay 8A North Gower St jointing and backfill.
- Joint bay 12 Gower Place excavate, joint and backfill.

NTH Removal

- Commencement of cabin removal and Z80 Crane install.
- Removal of NTH Items and desks etc.

Maria Fidelis Old School

- Fire Soffit boarding commencement.
- Window benchmark and delivery and commencement.
- TEP Roof scaffold install.

MWU Maria Fidelis

- Temp M&E

Utilities North

- MH03 - 4 mass concrete pours.
- MH03 - 3m ring install.
- MH03 - Install x3 1.2 diameter rings.
- MH04 - Excavate 12m to formation level.
- MH04 - Completion of pipework removal & install 10mm blanks.
- MH04 - Excavation to Hampstead Road chamber.

ITR

- Additional Bench Arm Rest Install.

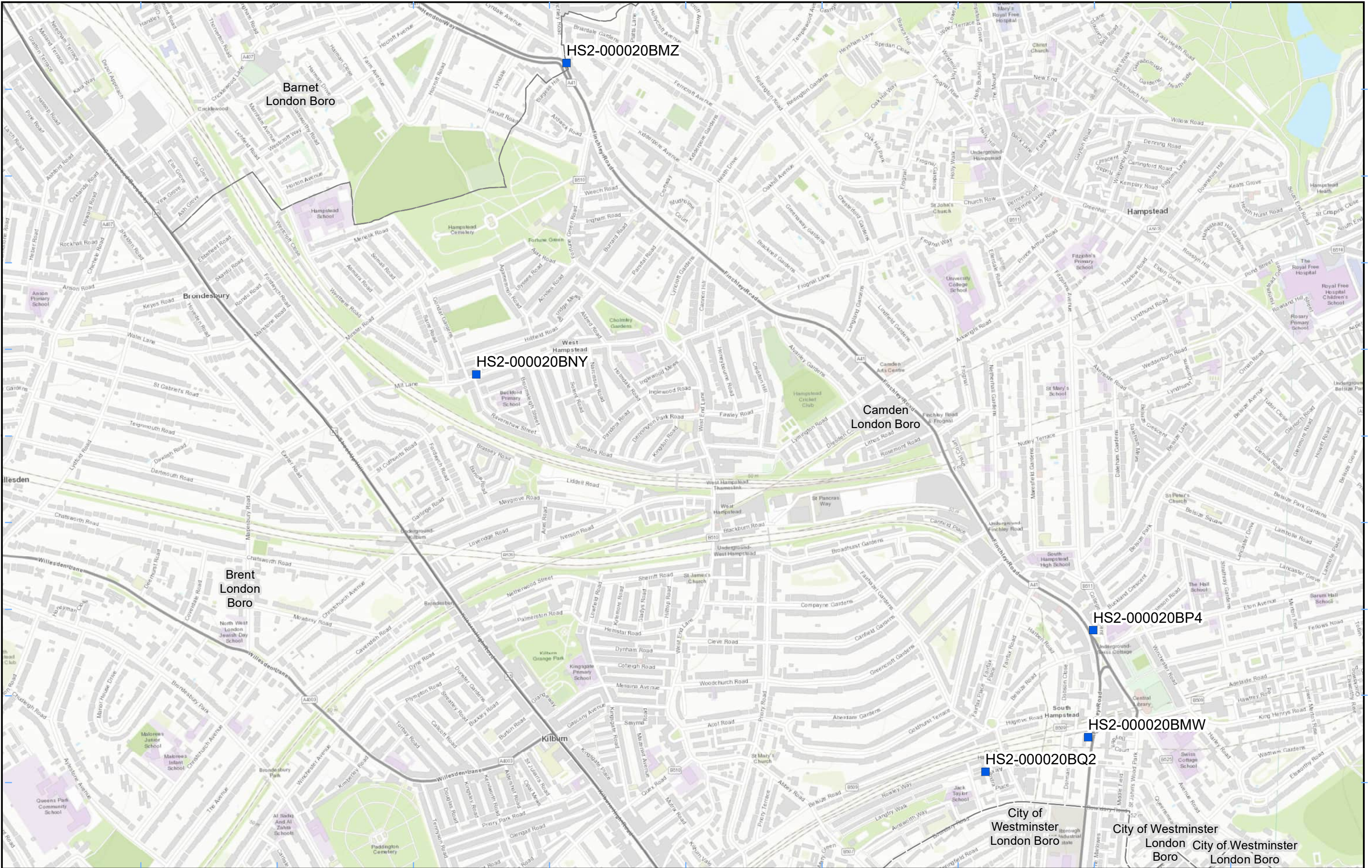
1.1.5 Twenty-Two (22) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.

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. AQ008 had a tripped electrical switch, which resulted in a power failure for the unit on 25/04/2024. This issue was resolved on-site on 07/05/2024. Monitor AQ012 had a fault with the monitor. Data capture for monitor AQ045 was below 90% (87.2%) due to temporary loss of power to the monitor. Data capture for monitor AQ054 was below 90% (78.6%) due to a temporary loss of power to the CCTV column on which the monitor is mounted.
- 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 (May 2024).

Appendix A – Worksites and Monitoring Locations

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



Legend
 Diffusion Tube
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations
 In LBC (Sheet 1)**
 London Borough of Camden

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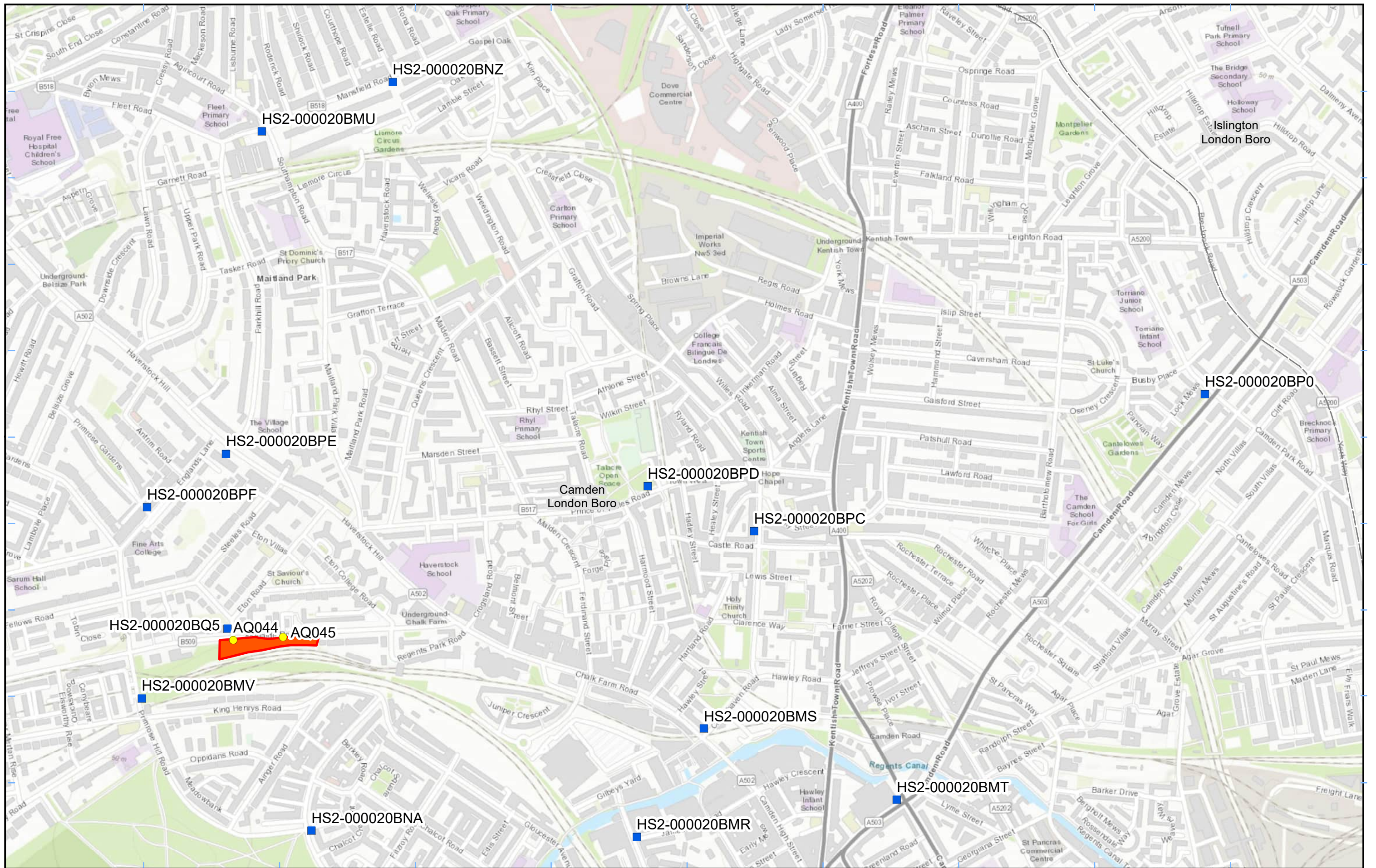
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0 100 200 300 400 Metres

Doc Number: Date: 25/10/22



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

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Map Number

Map Name
**Worksite and Monitoring Locations
 In LBC (Sheet 2)**

London Borough of Camden

hs2

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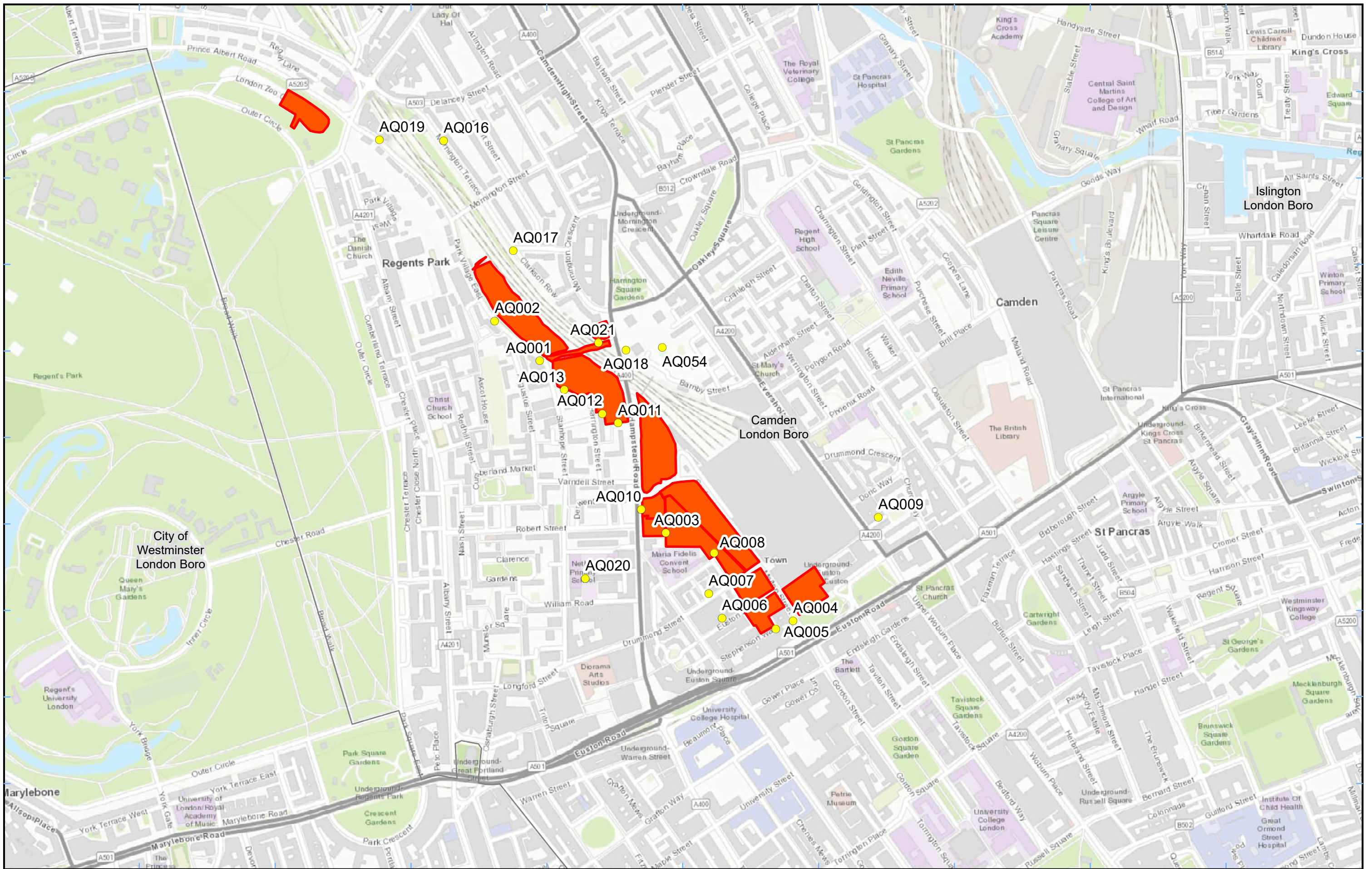
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 Metres

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Legend
 ● Dust Monitor □ District Borough Unitary Boundaries
 ■ Worksite

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Map Number
 Map Name
**Worksite & Monitoring Locations
 In LBC (Sheet 3)**
 London Borough of Camden

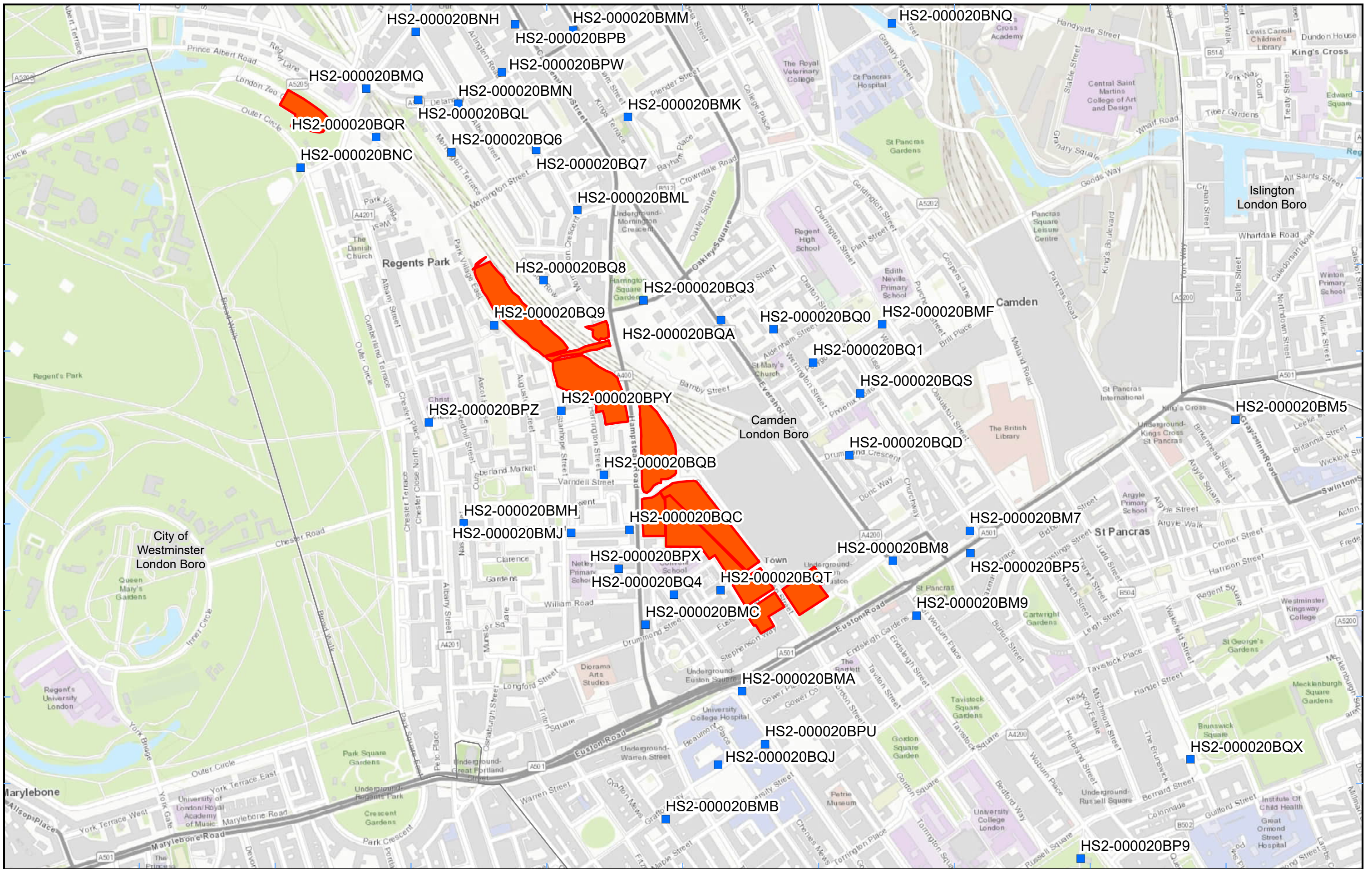

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Legend
■ Diffusion Tube District Borough Unitary Boundaries
 Worksite

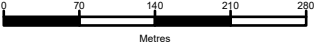
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Map Number
 Map Name
**Worksite & Monitoring Locations
 In LBC (Sheet 4)**
 London Borough of Camden

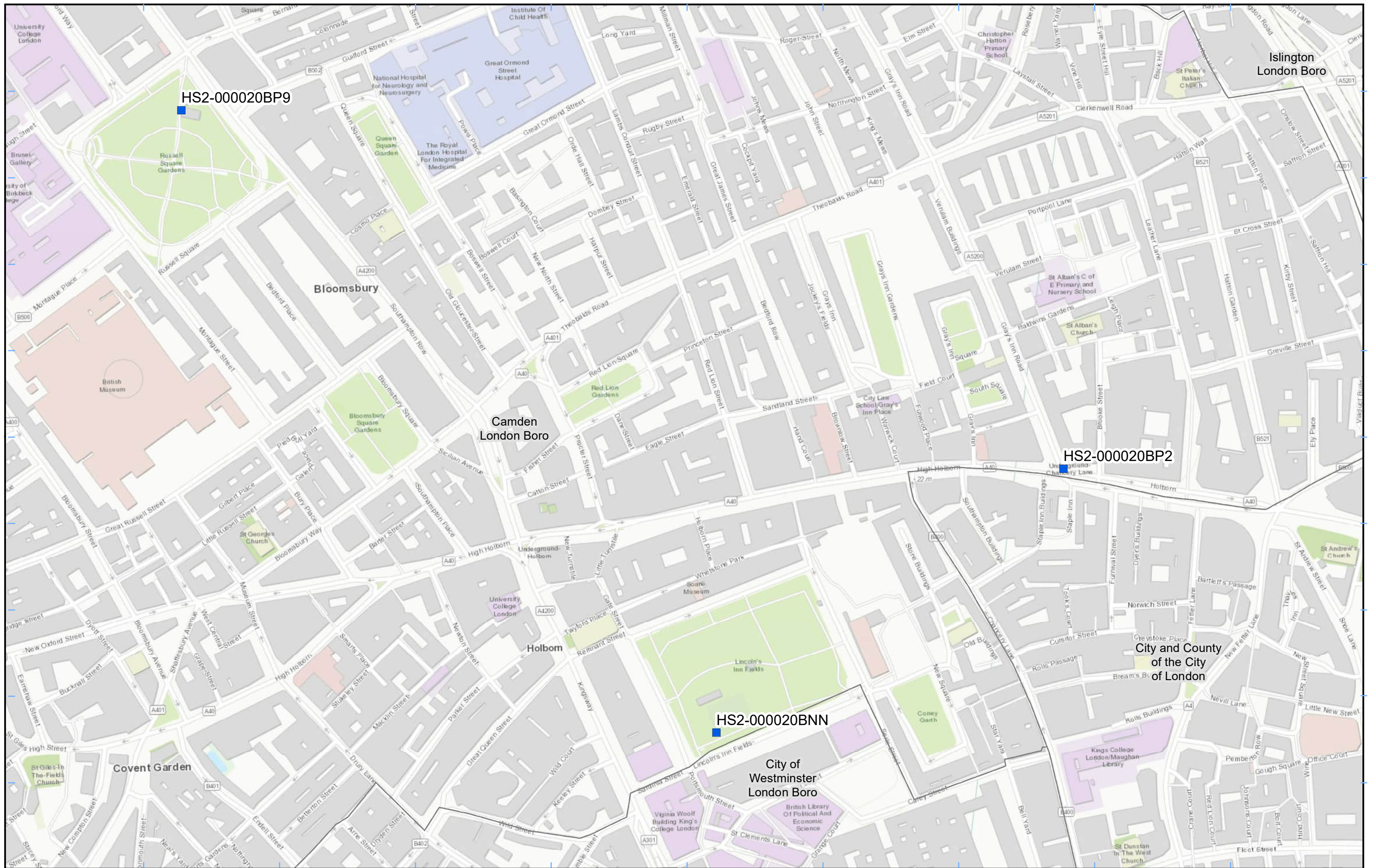

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- Legend**
- Diffusion Tube
 - District Borough Unitary Boundaries

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Map Number
 Map Name
**Worksite and Monitoring Locations
 In LBC (Sheet 5)**
 London Borough of Camden



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Date: 25/10/22

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 (%)
AQ001	529016, 183049	Junction of Park Village East, Stanhope Street and Granby Terrace	M	Yes	N	7.9	2.3	37.9	0	100.0
AQ002	528924, 183130	Park Village East	M	Yes	N	9.0	2.3	27.6	0	96.8
AQ003	529273, 182698	St James' Gardens	M	Yes	N/A	6.7	1.9	36.1	0	99.9
AQ004	529533, 182519	Melton Street	H	Yes	N/A	9.7	2.5	28.4	0	99.9
AQ005	529498, 182502	Stephenson Way	H	Yes	N/A	7.7	1.0	78.3	0	100.0
AQ006	529388, 182524	Euston Street	H	Yes	N/A	9.3	2.1	27.0	0	100.0
AQ007	529361, 182574	Drummond Street	H	Yes	N/A	7.0	1.4	85.9	0	99.9
AQ008	529372, 182657	Cobourg Street	H	Yes	N/A	6.1	0.8	32.0	0	78.2
AQ009	529707, 182730	Eversholt Street	H	Yes	N/A	23.6	3.9	153.0	0	100.0
AQ010	529223, 182746	Hampstead Road South	M	Yes	N/A	15.3	4.0	59.7	0	100.0
AQ011	529176, 182922	Hampstead Road	M	Yes	N	8.1	1.5	181.7	0	100.0

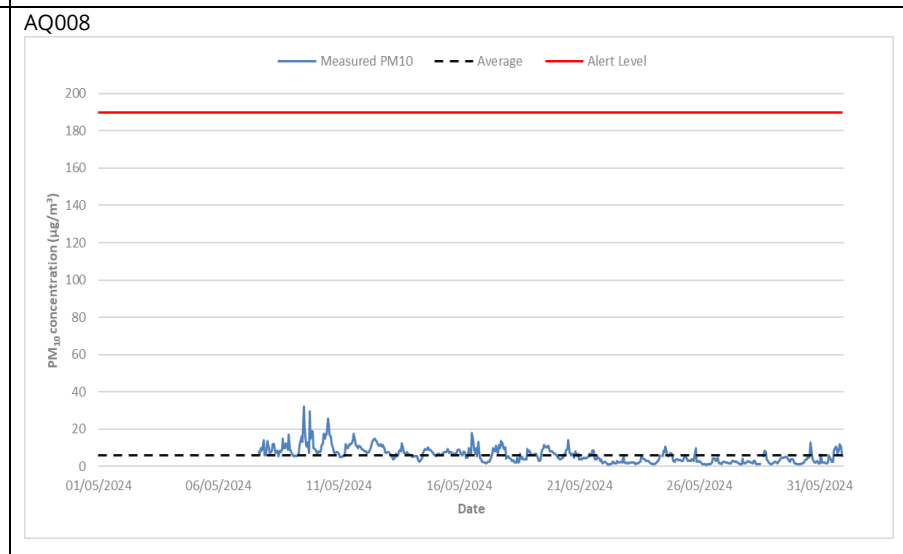
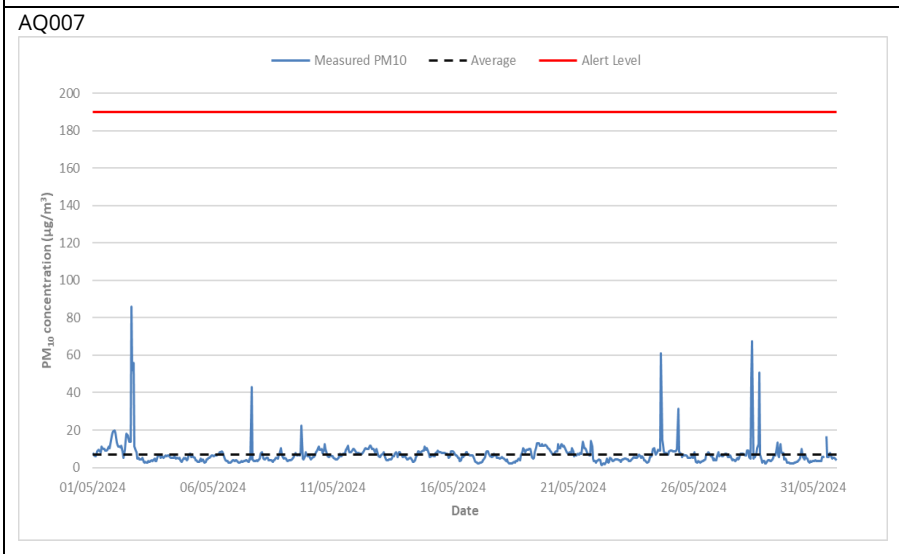
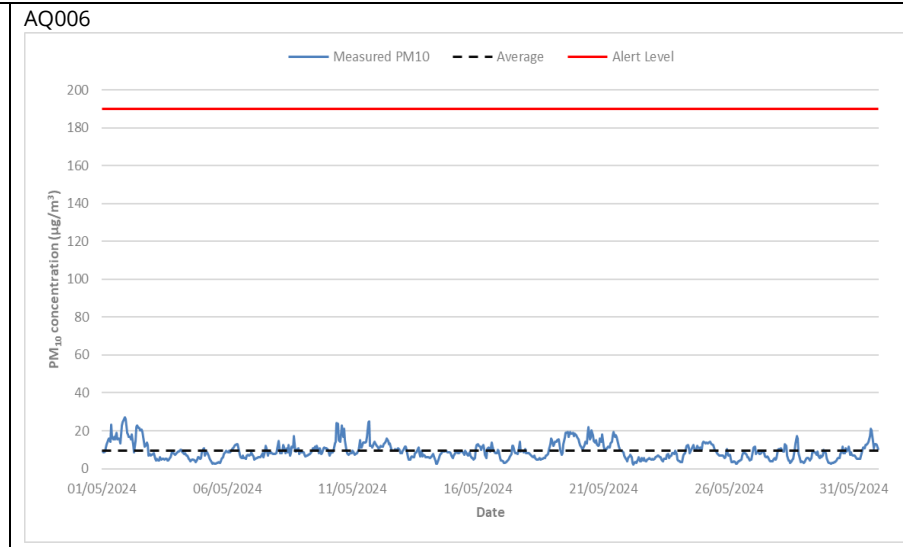
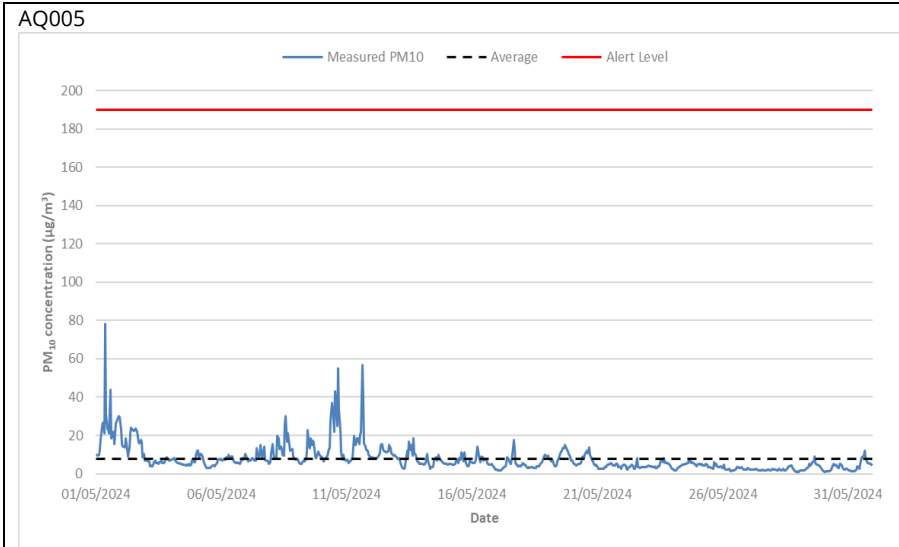
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ012	529144, 182941	Rear of Coniston House	M	Yes	N	9.0	2.6	72.2	0	75.3
AQ013	529066, 182990	Regents Park Estate	M	Yes	N	7.4	1.9	22.2	0	100.0
AQ016	528820, 183498	Mornington Terrace North	M	Yes	N	8.0	1.4	34.2	0	100.0
AQ017	528962, 183274	Mornington Terrace South	M	Yes	N	10.1	2.5	89.6	0	100.0
AQ018	529192, 183071	Hampstead Road North	M	Yes	N	9.2	2.4	49.7	0	100.0
AQ019	528689, 183500	Park Village East (North)	M	Yes	N	8.4	1.4	33.7	0	96.8
AQ020	529109, 182605	Netley School	N/A	Yes	N/A	11.3	2.7	48.2	0	100.0%
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge	M	Yes	N	9.7	2.2	166.5	0	100.0
AQ044	527725, 184369	Adelaide Road 1	M	Yes	N	2.7	0.1	25.3	0	99.1
AQ045	527826, 184375	Adelaide Road 2	M	Yes	N	7.2	1.7	36.7	0	87.2
AQ054	529266, 183076	Ampthill Estate, Hampstead Road	M	Yes	N	21.1	2.4	339.5	4	78.6

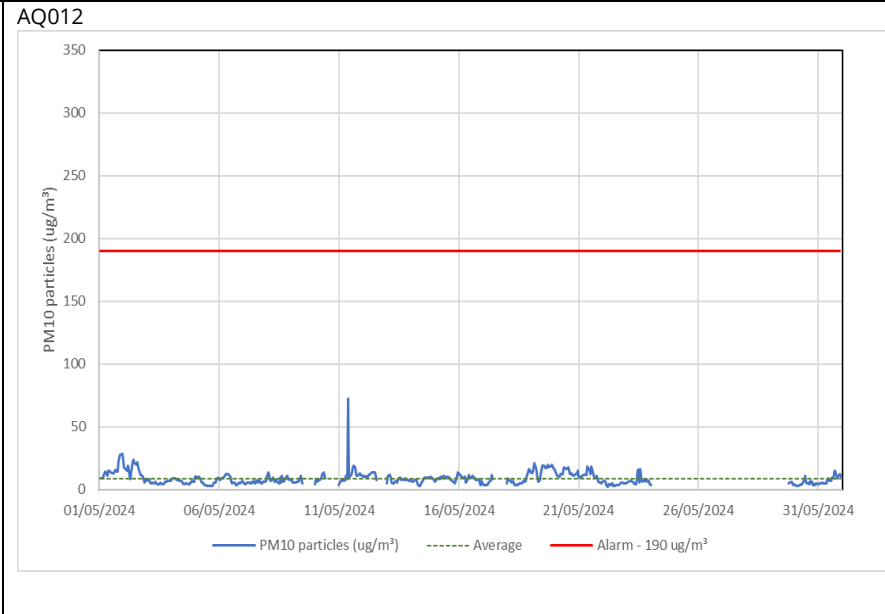
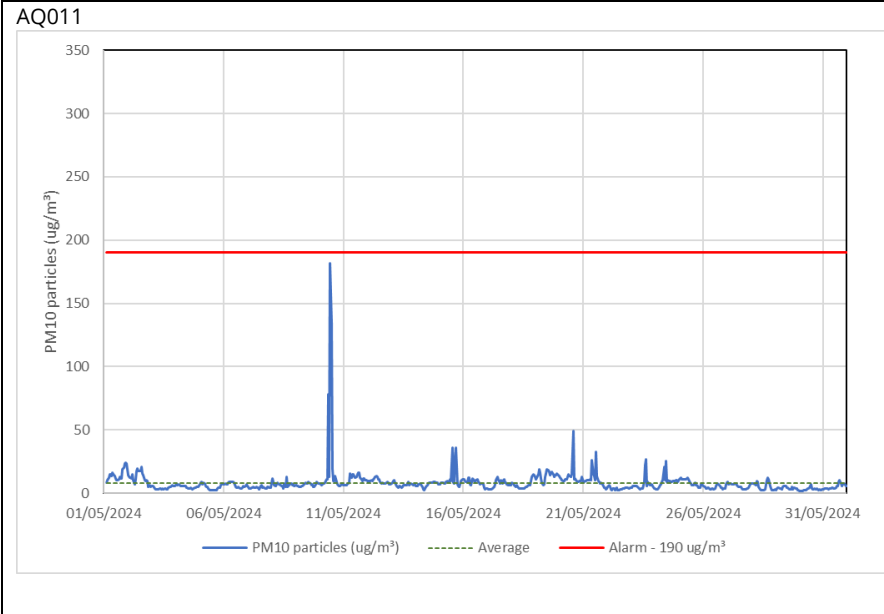
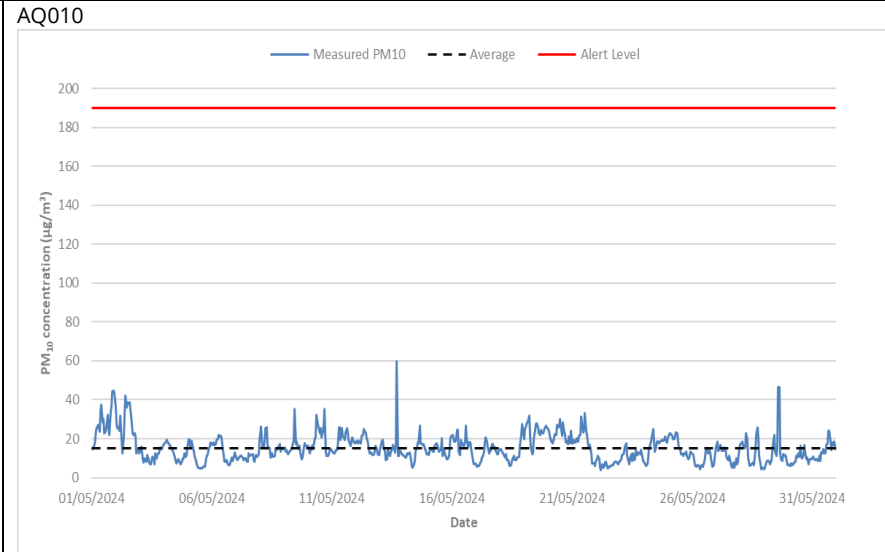
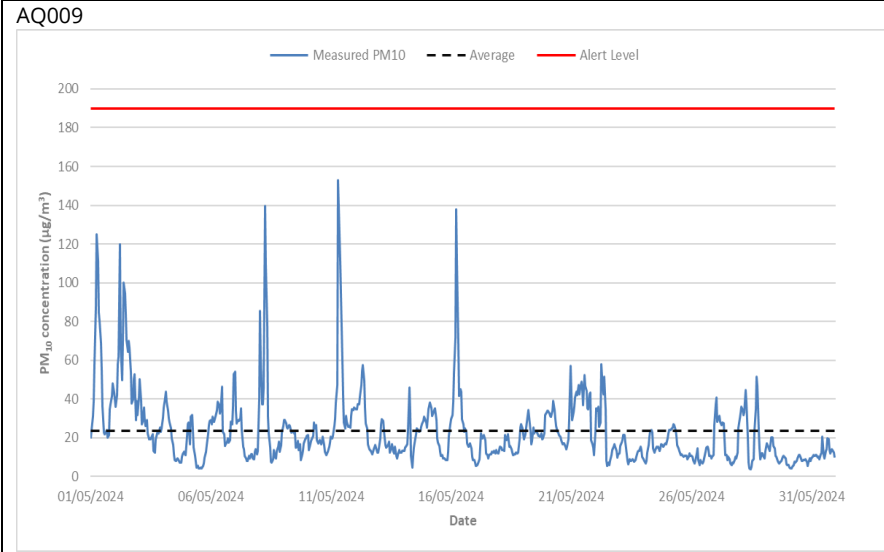
Table 2: Summary of exceedances during period (May 2024)

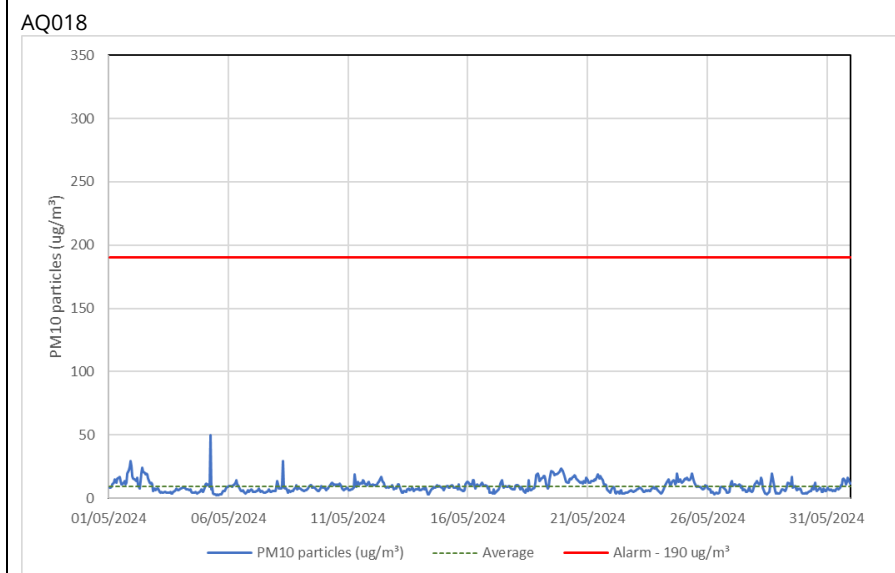
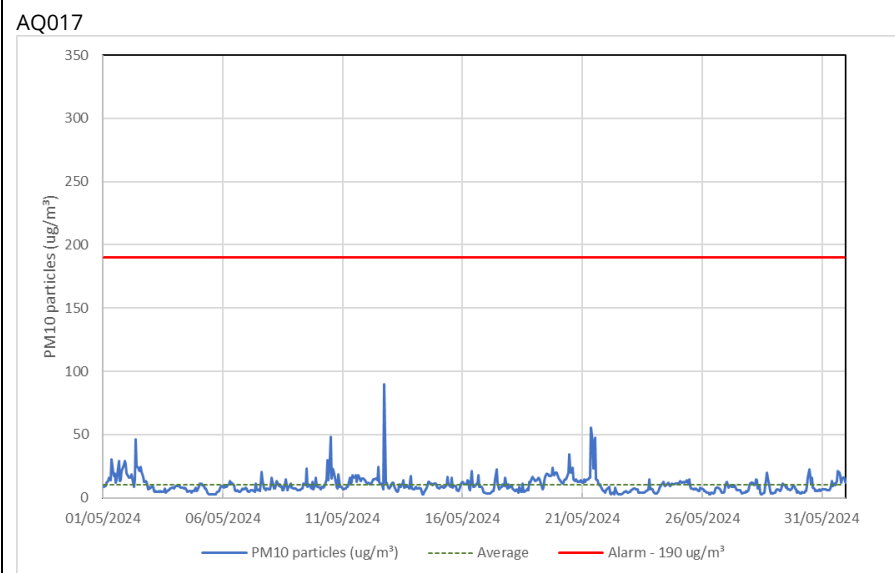
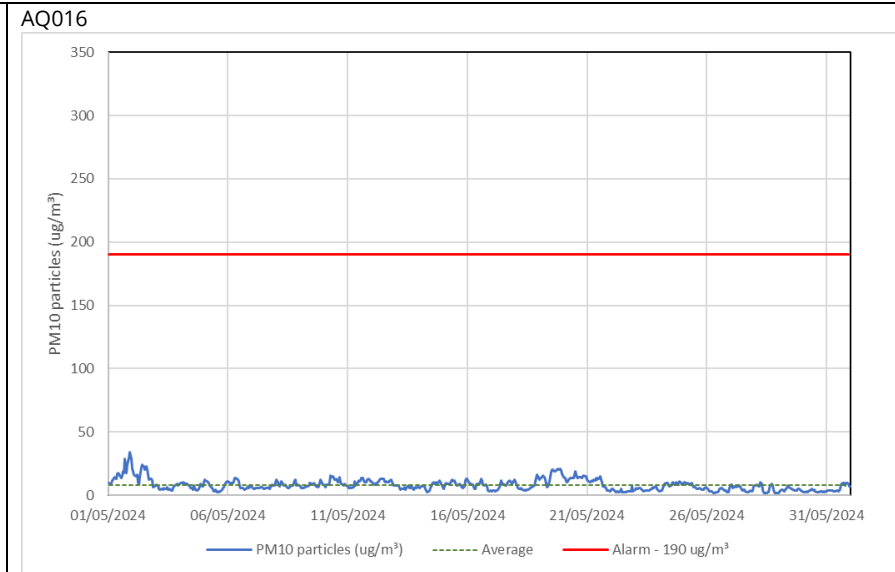
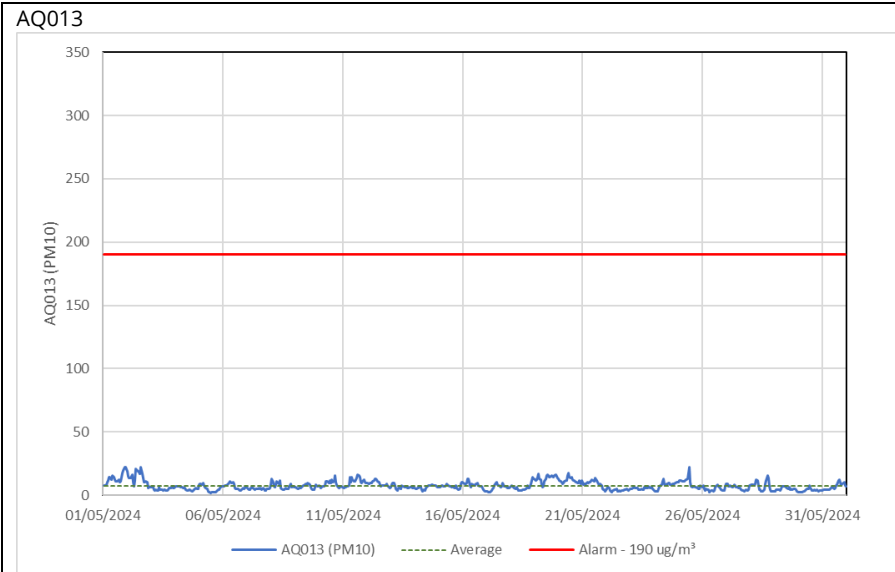
Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ054	11/05/2024 06:01 – 07:00; 248.0 µg/m ³ 07:01 – 08:00; 208.8 µg/m ³ 16/05/2024 04:01 – 05:00; 339.5 µg/m ³ 05:01 – 06:00; 234.1 µg/m ³	At the time of the exceedance the site was shut and there were no dusty site works taking place near the monitoring location. It is considered triggers were false due to a faulty heater within the monitor.	Heater replaced on the 23 rd May.

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

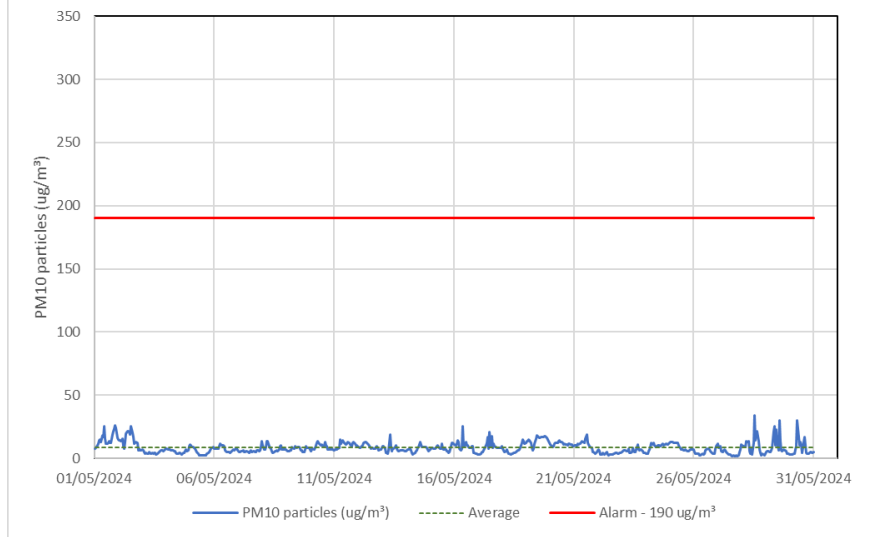




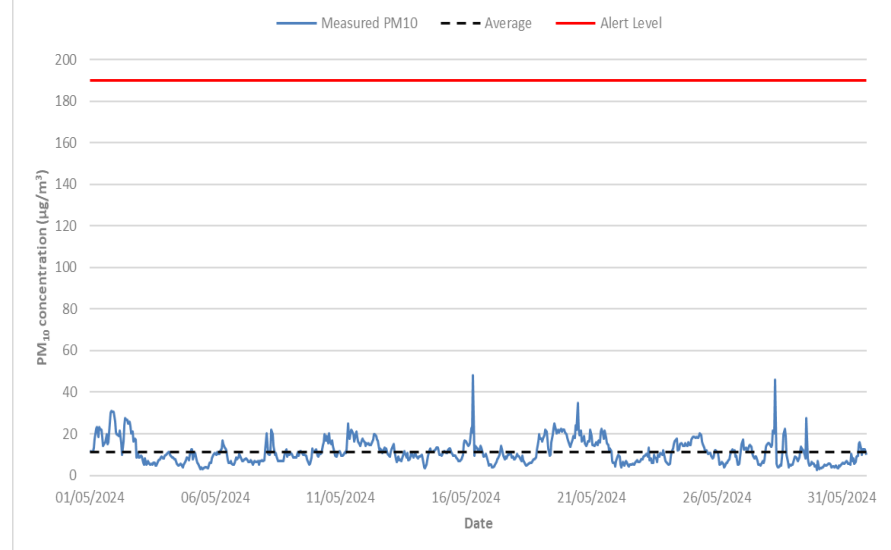




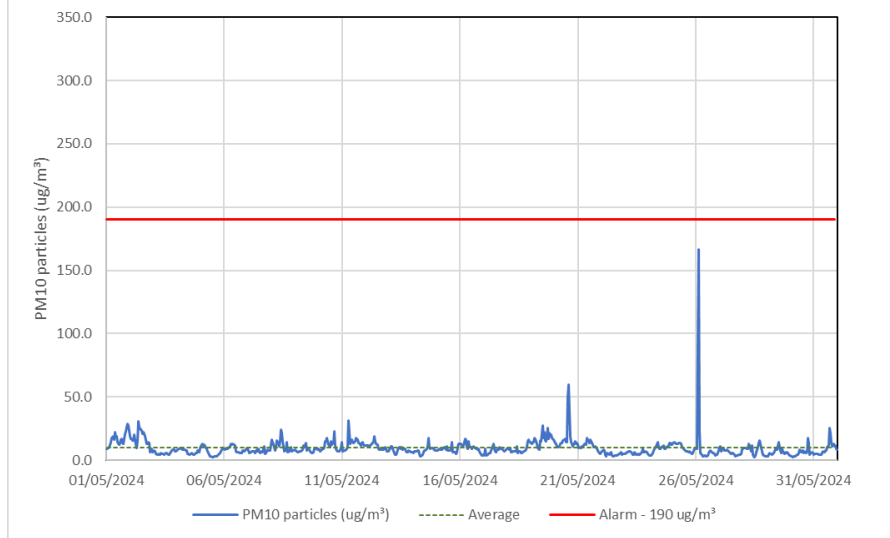
AQ019



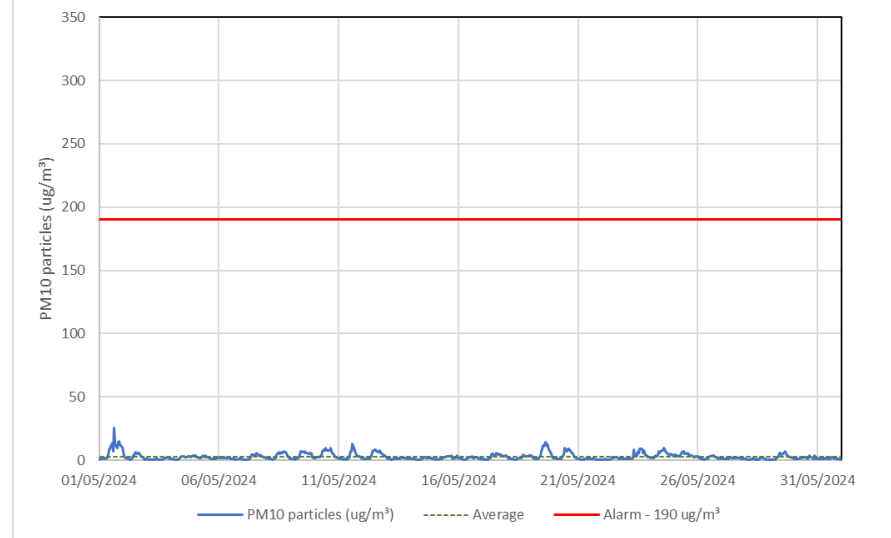
AQ020



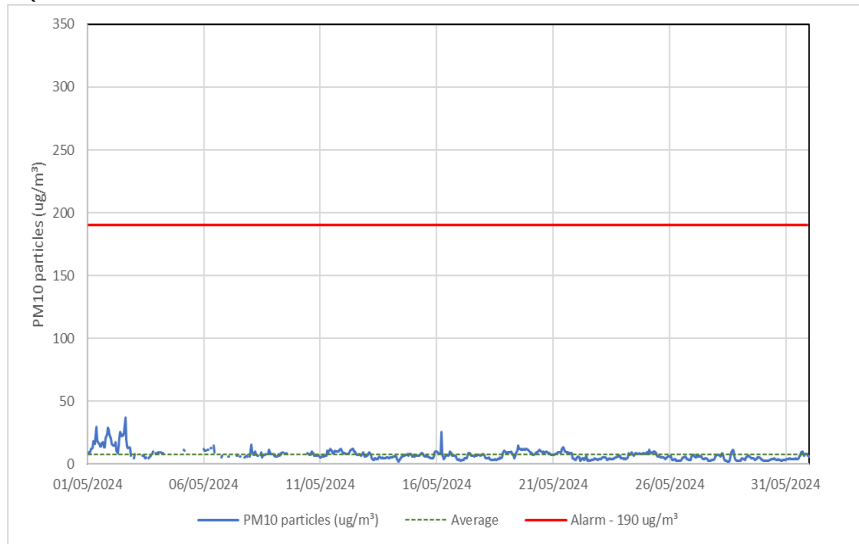
AQ021



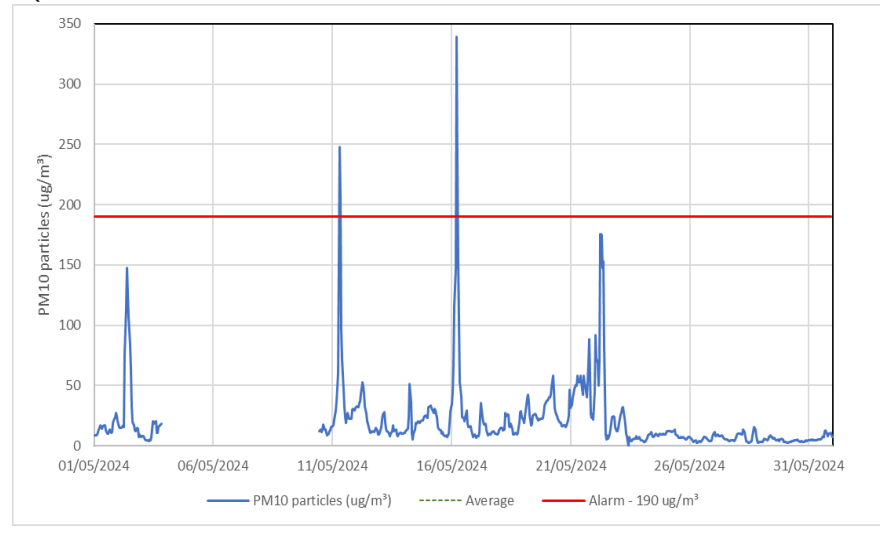
AQ044



AQ045



AQ054



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 ¹²
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	44	43	Tube Missing	Tube Missing									44
HS2-000020BM7	Chalton Street	529894, 182702	Tube Missing	45	42	31									40
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	Tube Missing	39	35	31									35
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	44	Tube Missing	Tube Missing	Tube Missing									44
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	56	50	37	Tube Missing									48
HS2-000020BMB	Whitfield Street	529273, 182114	39	35	23	23									30
HS2-000020BMC	Hampstead Road	529232, 182511	55	62	57	48									56
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	32	27	29	Tube Missing									29
HS2-000020BMH	Nash Street	528861, 182717	34	27	18	18									24

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
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	31	31	27	19									27
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	45	42	37	32									39
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	36	30	25	20									28
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	39	Tube Missing	Tube Missing	Tube Missing									39
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	34	32	29	23									29
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	38	36	39	20									33
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	30	28	21	22									25
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	43	41	Tube Missing	Tube Missing									42
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	46	41	37	31									39
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	40	30	34	27									33
HS2-000020BMV	Primrose Hill Road	527538, 184250	Tube Missing	31	28	21									26

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	43	45	39	28									39
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	54	54	53	42									51
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	29	29	22	18									25
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	29	22	19	14									21
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	33	30	24	23									27
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	23	33	30	21									27
HS2-000020BNQ	Camley Street	529735, 183737	38	36	21	23									29
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	42	39	29	29									35
HS2-000020BNZ	Mansfield Road	528050, 185508	35	31	23	23									28
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	45	51	40	35									43
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	36	35	32	25									32
HS2-000020BPB	Camden High Street	528966, 183735	59	52	48	Tube Missing									53
HS2-000020BPC	Castlehaven Road	528788, 184591	29	27	23	Tube Missing									26

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BPD	Prince of Wales Road	528571, 184683	26	26	21	16									22
HS2-000020BPE	Haverstock Hill	527710, 184749	41	37	21	22									30
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	43	42	38	Tube Missing									41
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	27	28	30	23									27
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	36	30	31	22									30
HS2-000020BPX	Netley Street	529177, 182625	Tube Missing	26	22	14									21
HS2-000020BPY	Stanhope Street	529060, 182947	34	25	26	18									26
HS2-000020BPZ	Albany Street	528790, 182923	35	26	27	18									27
HS2-000020BQ0	Werrington Street	529493, 183113	27	33	Tube Missing	Tube Missing									30
HS2-000020BQ1	Polygon Road	529574, 183045	29	29	Tube Missing	15									24
HS2-000020BQ2	Alexandra Place	526320, 183980	43	37	34	28									35
HS2-000020BQ3	Harrington Square	529228, 183172	33	33	28	21									29
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	32	34	25	19									28
HS2-000020BQ5	Adelaide Road	527713, 184392	30	26	23	8									22
HS2-000020BQ6	Mornington Terrace	528836, 183474	41	37	21	22									30

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BQ7	Arlington Road	529009, 183479	27	26	26	14									23
HS2-000020BQ8	Clarkson Row	529024, 183213	32	26	28	Tube Missing									29
HS2-000020BQ9	Park Village East	528923, 183121	30	24	23	15									23
HS2-000020BQA	Eversholt Street	529386, 183132	43	28	33	26									32
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	32	28	24	17									25
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	40	35	30	23									32
HS2-000020BQD	Drummond Crescent	529648, 182856	39	36	38	22									34
HS2-000020BQJ	Grafton Way	529380, 182225	40	47	32	30									37
HS2-000020BQL	Delancey Street	528768, 183581	36	29	35	Tube Missing									34
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	33	22	23	17									23
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	34	32	26	26									29
HS2-000020BQT	Drummond Street	529385, 182581	27	33	Tube Missing	Tube Missing									30
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	36	39	31	31									34
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	49	40	41	37									42

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	57	Tube Missing	Tube Missing	Tube Missing									57
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	34	30	Tube Missing	24									29