

Air Quality and Dust Monitoring Monthly Report – May 2023 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 2023 and May 2023 respectively.
- 1.1.2 Figure 1 to Figure 5 in Appendix A indicate 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, Figures 1 – 5, include:

Skanska Costain Strabag Joint Venture (SCSjv)

- Adelaide Road Vent Shaft – piling operations and groundworks.
- Euston Scissor Cut – groundworks, piling operations and materials management.
- Euston Throat Retained Cut - groundworks, piling operations and materials management
- Hampstead Road Bridge –Utilities diversion works.
- Euston Cavern – piling operations, groundworks and materials management

Mace Dragados Joint Venture (MDjv)

Maria Fidelis:

- MF Grd floor. Premier working towards screeding date of 5.6.2023.
- MF, Plaster-boarding works currently being carried out on grd, L1, L2 and L3.
- MF, M+E works currently being carried out on grd, L1, L2 and roof.
- MF, Roclad sheeting at grd level around façade of building progressing.
- MF, Glazing to grd floor windows commenced.
- MF, L4 released for plaster-boarding works.
- MF, L5 clear of debris, de-snagging being carried out ready for inspection.

Utilities:

- Barhale Utilities backfilled all manholes and extracted temporary works at MH10 and MH5.
- Installed connections on Starcross Lane and MH4, MH5 locations.

TSS:

- Continue fit out of substructure of TSS – Blockwork, screeding & down pipe install
- Complete slipform of superstructure, started striking
- Continue pouring slabs on upper levels of structure

ITR:

- Landscaping finished.
- North canopy roof waterproofing completed. South canopy waterproofing commenced.
- Ductwork for traffic signals completed on Eversholt street.

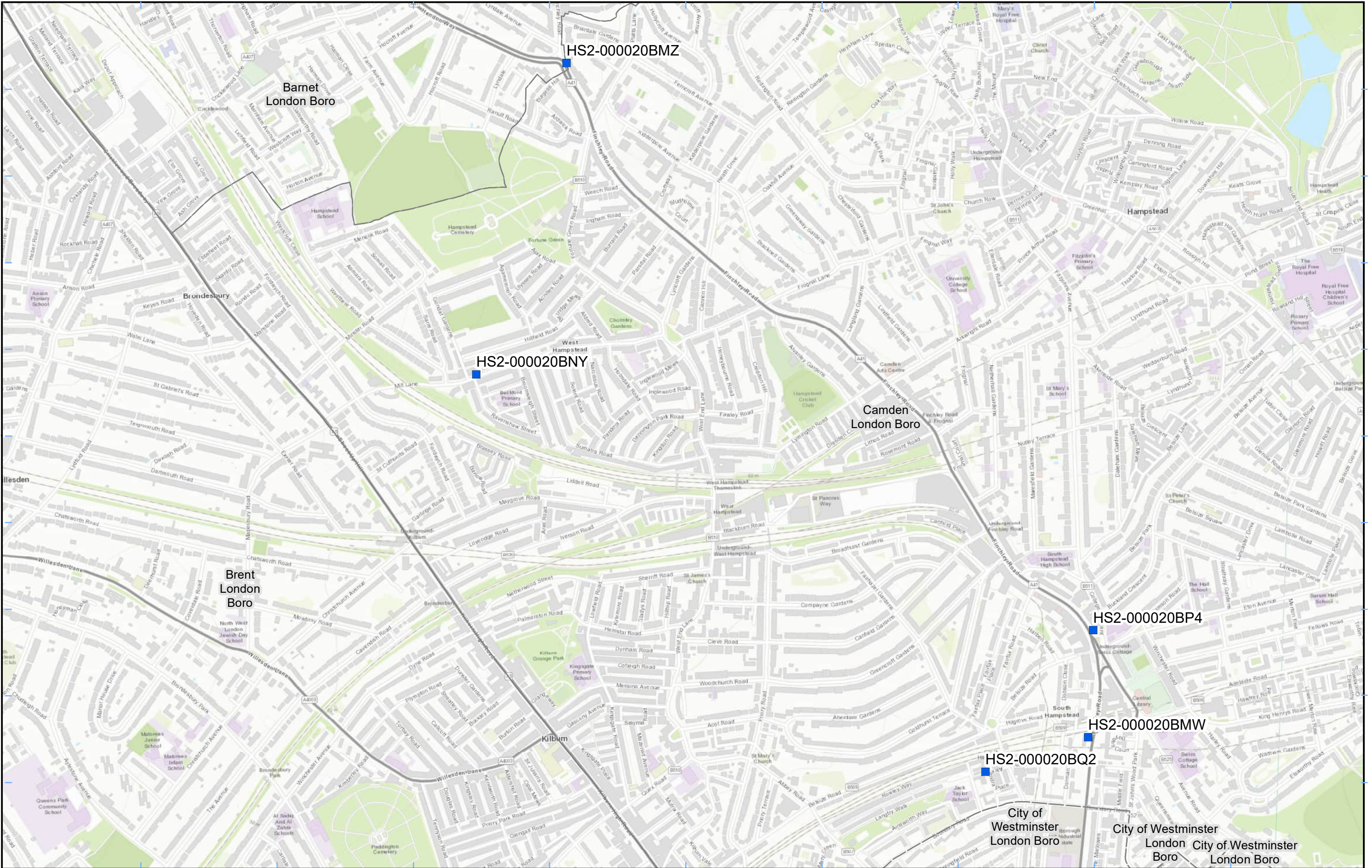
- 1.1.5 Twenty-two (22) dust monitors are installed around worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor 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 alert investigations and remediations are presented in Appendix B, Table 3.
- 1.1.9 Data capture was below 90% for multiple monitors due to power loss and monitor faults.
- 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 occur as a result of the scheme.
- 1.1.11 Diffusion tube monitoring results are 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 4, together with the 2023 running mean.
- 1.1.13 Table 1 provides a summary of the complaint information received during the reporting period.

Table 1: Summary of complaints received during May 2023

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-23-44617-C	Zone 5	Dust at Zone 5 complaint made by LBC following a site visit. Information on how we are damping down the site given that works are paused was requested.	Additional sprinklers at Zone 5 put in place. Similar options are also being looked into for other areas where works are paused.
HS2-23-44620-C	NTH	Complaint made by LBC where it was observed during a site visit that damping down was not carried out at the former NTH site. The complainant spoke to the site supervisor where he acknowledged that damping down should have been taking place and that he would rectify and action. The complainant requested for this matter to be recorded through helpdesk as a complaint.	Given that the matter was addressed with the site supervisor on site, no further action taken.
HS2-23-44678-C	Mdjv Site	Complaint made in relation to air pollution and traffic around Grafton Place/ Eversholt Street.	Notification letter of works around Grafton Place/ Eversholt Street provided to stakeholder which was also distributed in the local area. In terms of air quality, a link to HS2's Phase One Air Quality Information Paper E31 provided which sets out how HS2 manages potential air quality impacts.

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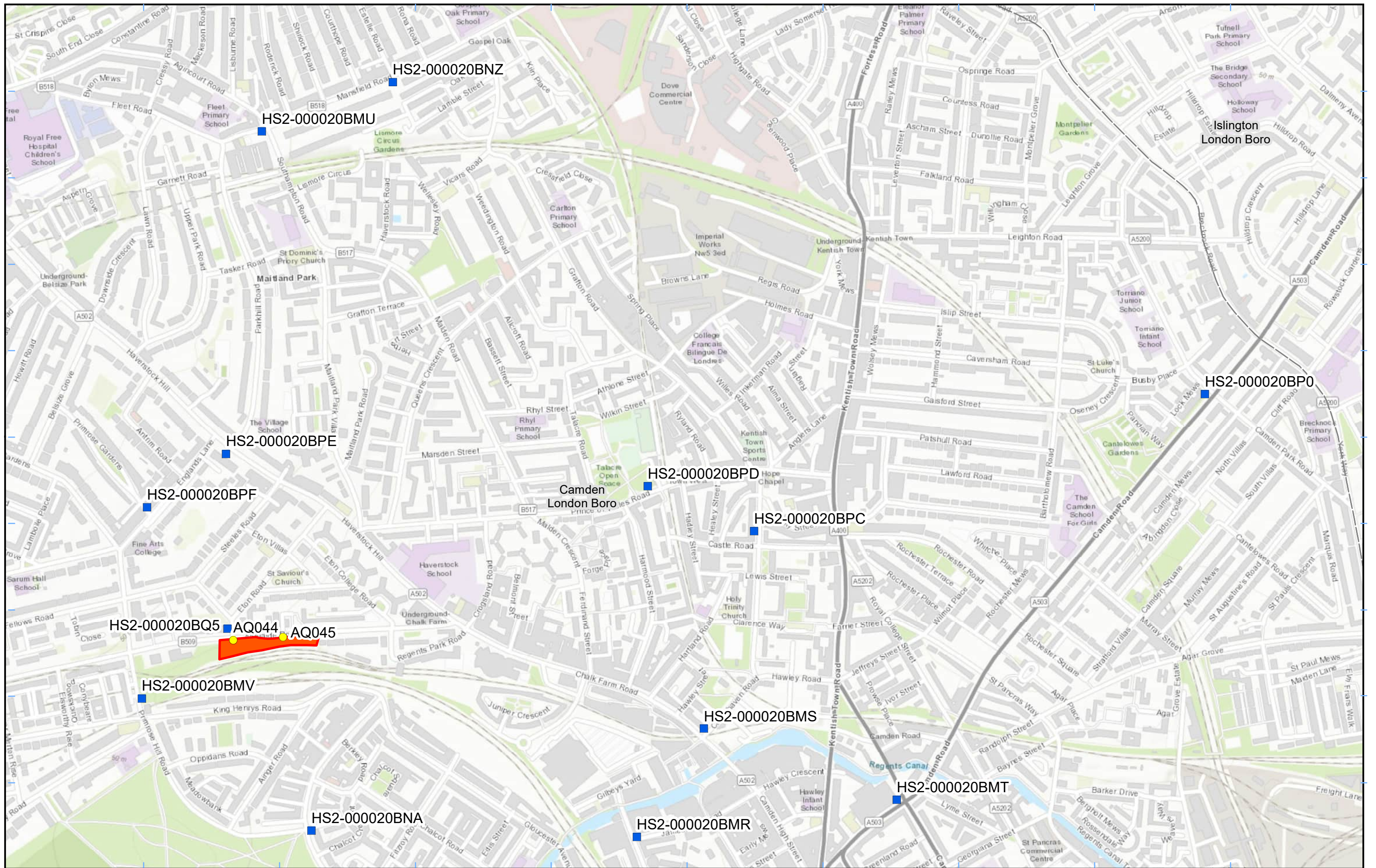
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- Legend**
- Diffusion Tube
 - Worksite
 - Dust Monitor
 - District Borough Unitary Boundaries

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Map Number
 Map Name
**Worksite and Monitoring Locations
 In LBC (Sheet 2)**
 London Borough of Camden

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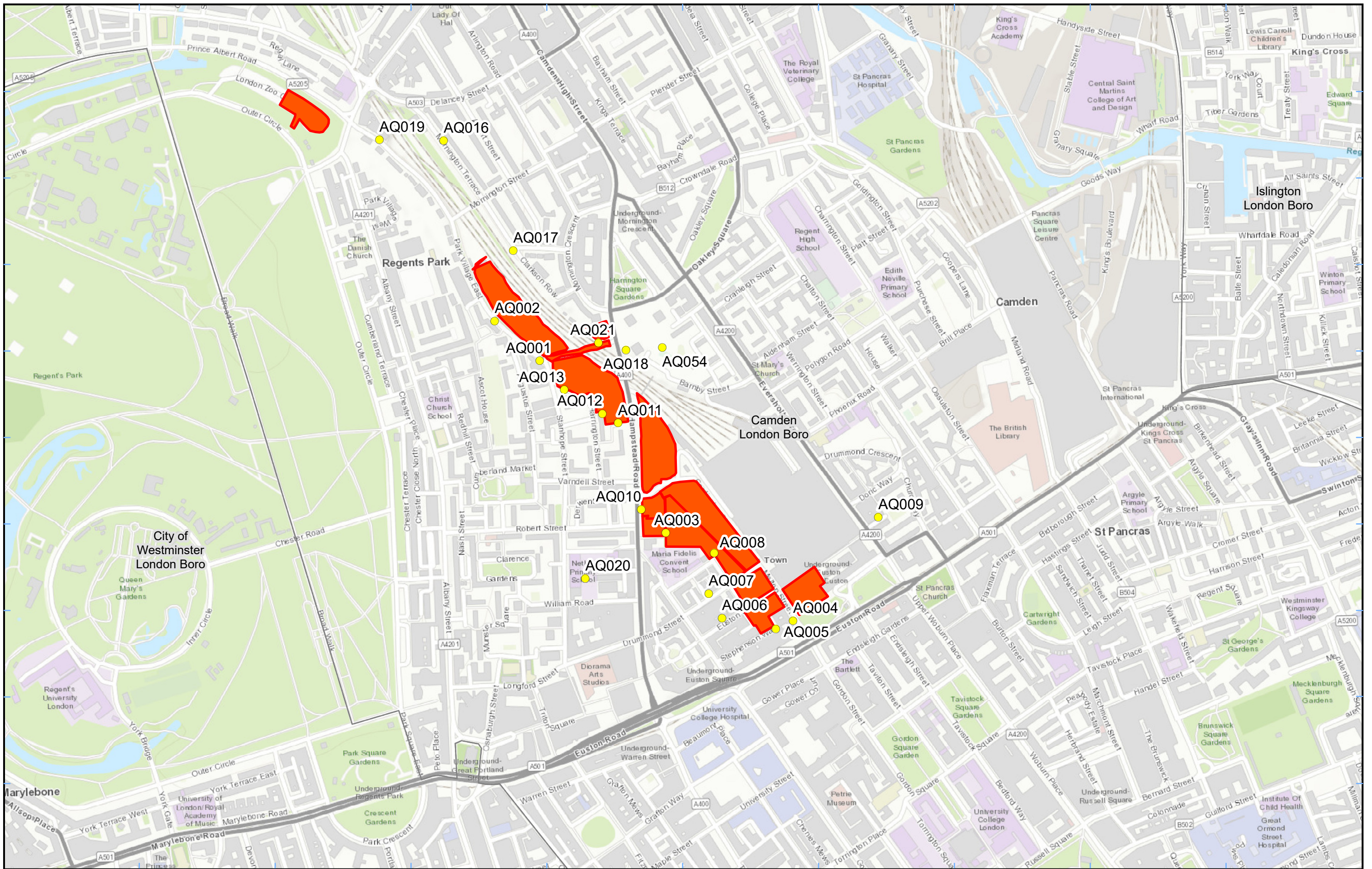
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 Metres

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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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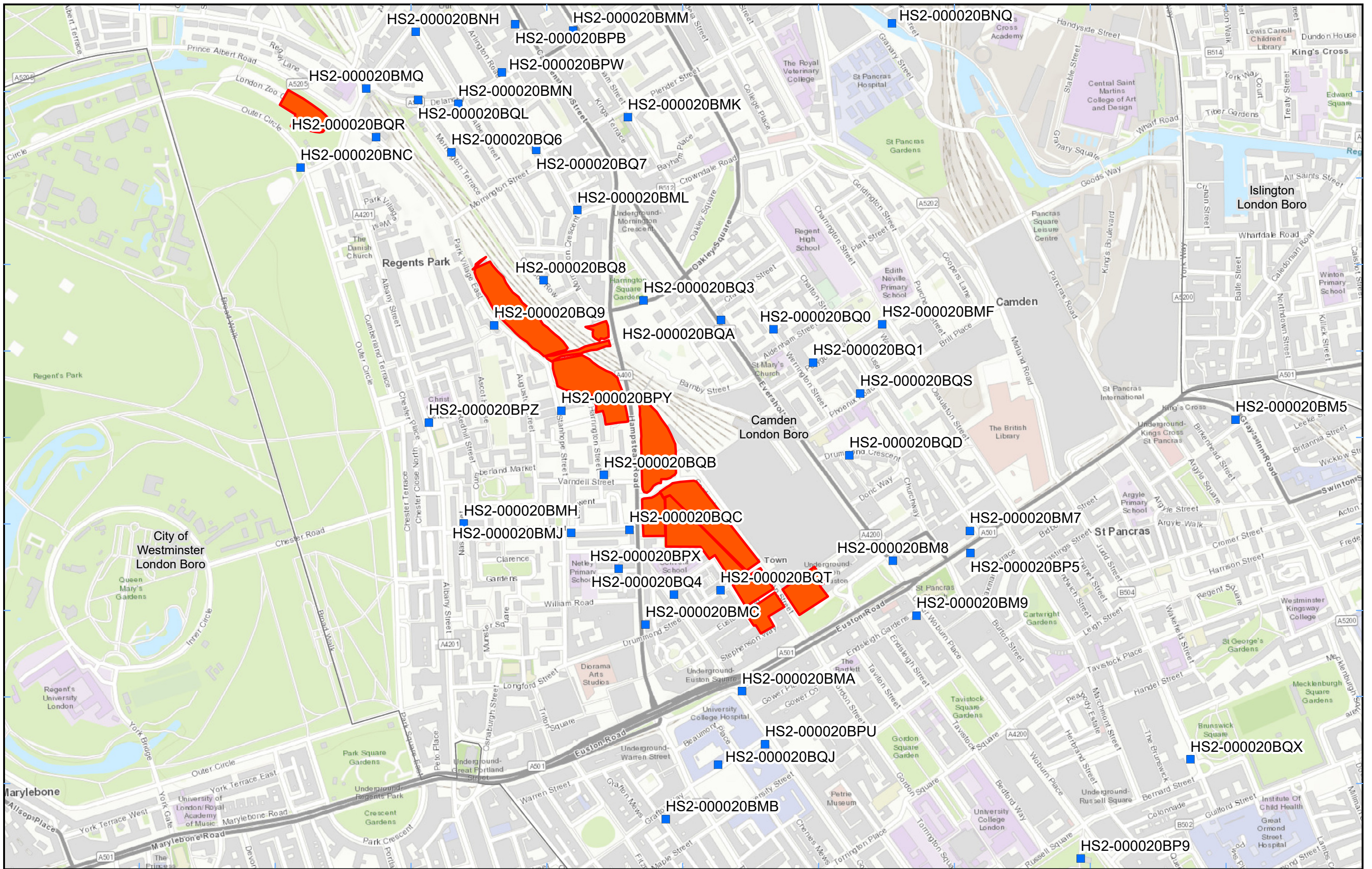


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Legend
■ Diffusion Tube District Borough Unitary Boundaries
 Worksite

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

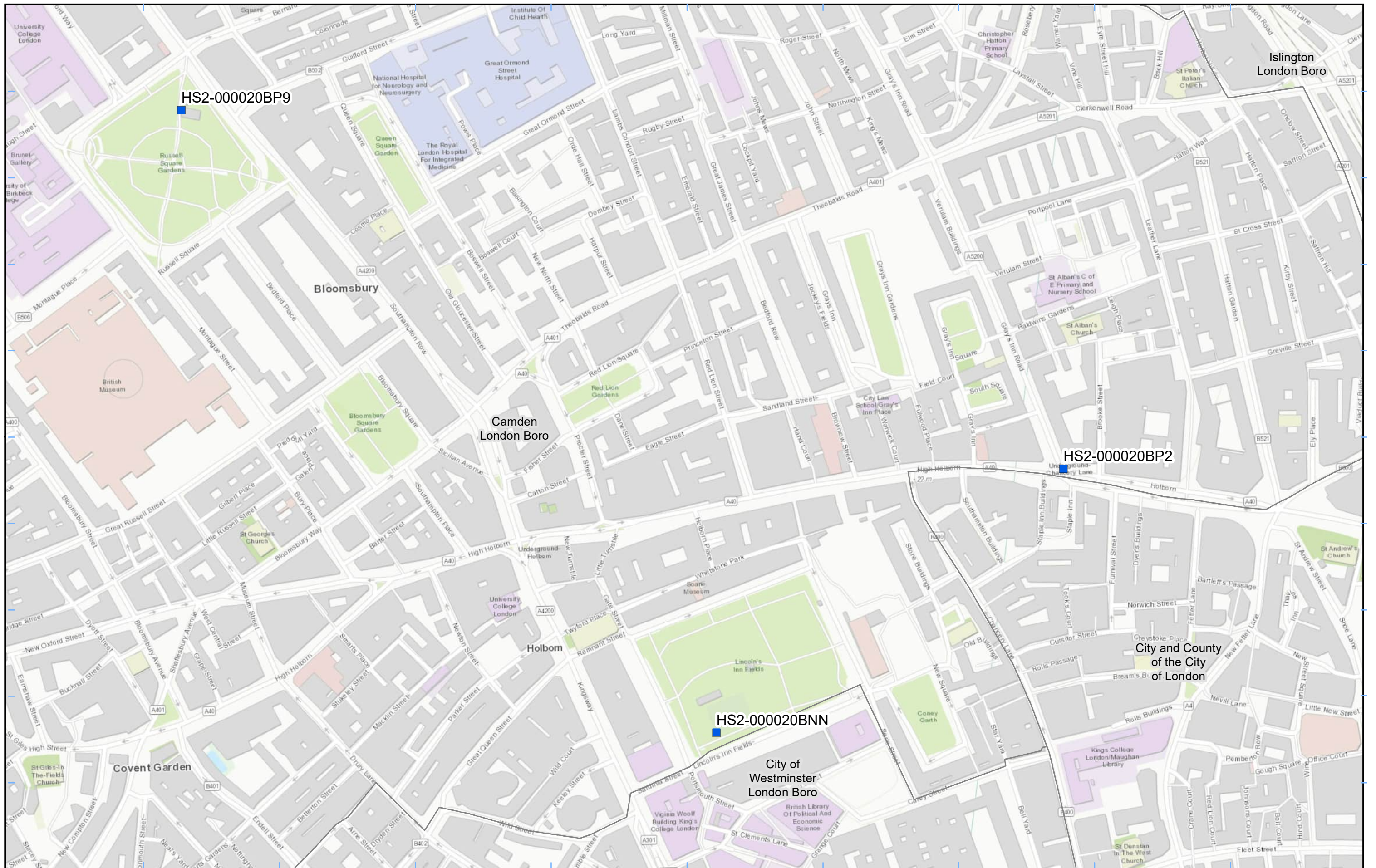
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- Legend**
- Diffusion Tube
 - District Borough Unitary Boundaries

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

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Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and May 2023 Results

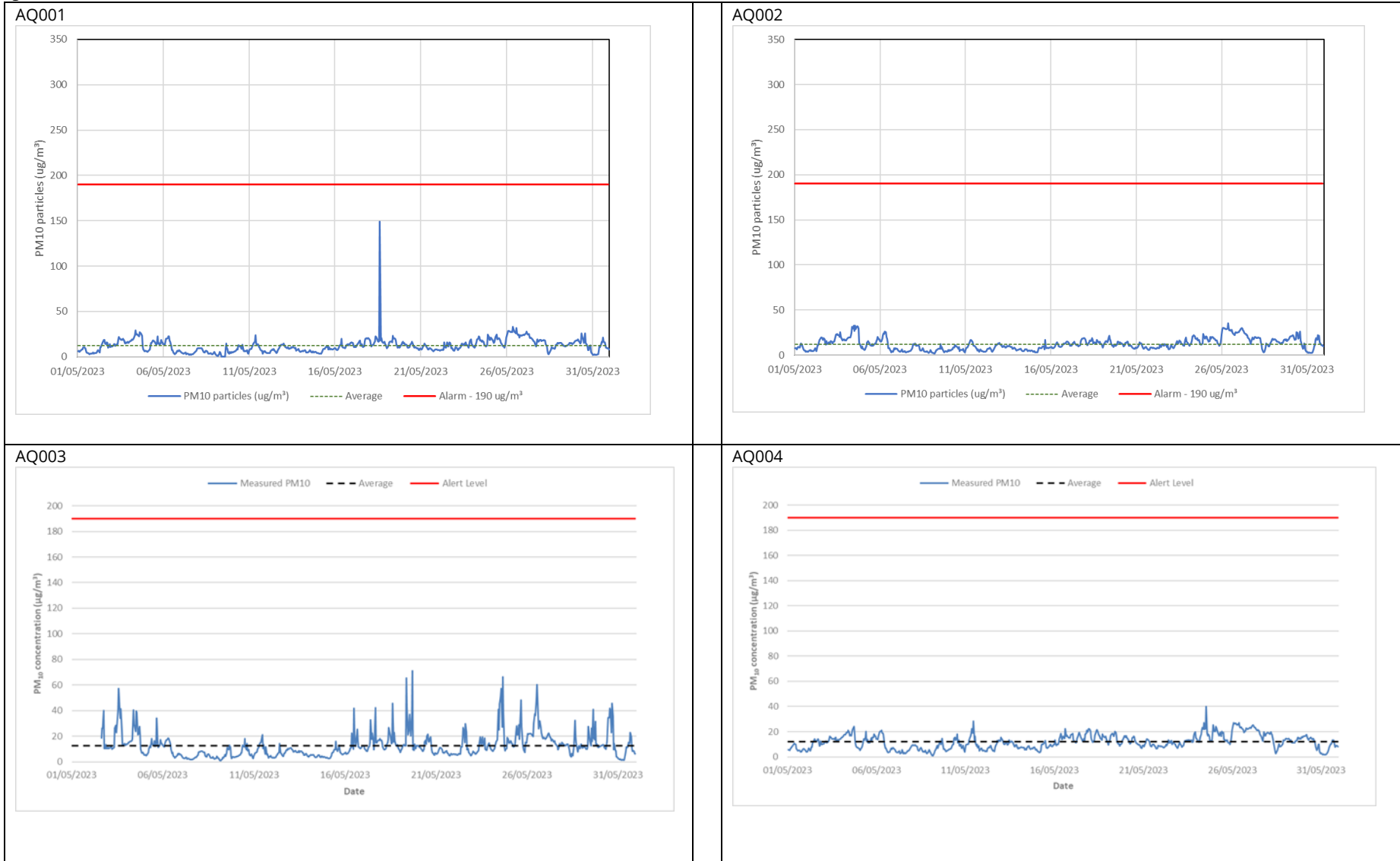
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number 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	12.2	0.9	149.4	0	99.1
AQ002	528924, 183130	Park Village East	M	Yes	N	12.1	1.4	35.5	0	99.9
AQ003	529273, 182698	St James' Gardens	M	Yes	N/A	12.7	0.8	71.0	0	94.8
AQ004	529533, 182519	Melton Street	H	Yes	N/A	11.9	1.0	40.2	0	100.0
AQ005	529498, 182502	Stephenson Way	H	Yes	N/A	14.2	0.9	68.3	0	86.0
AQ006	529388, 182524	Euston Street	H	Yes	N/A	17.5	1.2	71.1	0	100.0
AQ007	529361, 182574	Drummond Street	H	Yes	N/A	8.4	0.2	31.3	0	100.0
AQ008	529372, 182657	Cobourg Street	H	Yes	N/A	16.7	1.0	131.8	0	100.0
AQ009	529707, 182730	Eversholt Street	H	Yes	N/A	12.1	0.3	293.3	4	100.0
AQ010	529223, 182746	Hampstead Road South	M	Yes	N/A	11.2	1.1	36.2	0	49.7
AQ011	529176, 182922	Hampstead Road	M	Yes	N	17.9	1.6	129.8	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/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	13.7	1.7	57.4	0	99.5
AQ013	529066, 182990	Regents Park Estate	M	Yes	N	13.5	1.6	47.8	0	99.9
AQ016	528820, 183498	Mornington Terrace North	M	Yes	N	12.3	1.5	32.1	0	99.9
AQ017	528962, 183274	Mornington Terrace South	M	Yes	N	11.4	0.8	28.9	0	99.9
AQ018	529192, 183071	Hampstead Road North	M	Yes	N	12.0	1.2	31.6	0	99.9
AQ019	528689 , 183500	Park Village East (North)	M	Yes	N	13.0	1.7	34.1	0	99.9
AQ020	529109, 182605	Netley School	n/a	Yes	N/A	12.9	0.9	48.7	0	96.5
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge	M	Yes	N	12.4	1.0	35.8	0	99.9
AQ044	527725 , 184369	Adelaide Road 1	M	Yes	N	14.4	1.2	118.1	0	99.9
AQ045	527826 , 184375	Adelaide Road 2	M	Yes	N	12.7	1.4	36.6	0	99.9
AQ054	529266, 183076	Amphill Estate, Hampstead Road	M	Yes	N	18.4	1.9	82.7	0	30.8

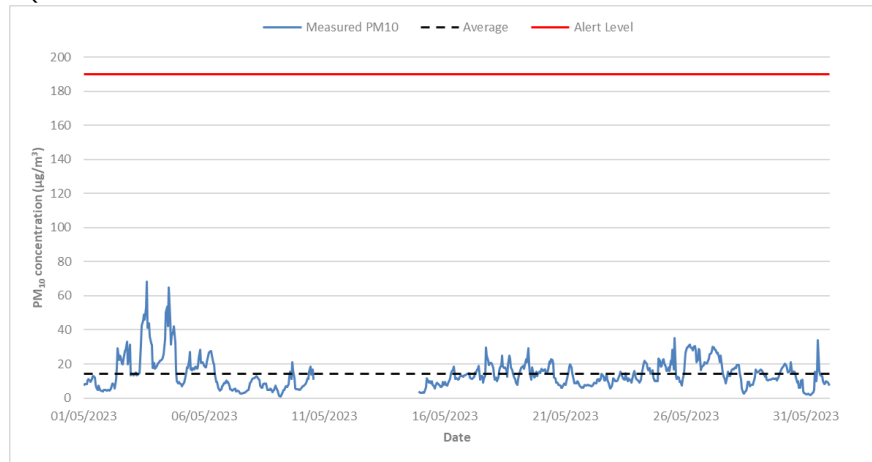
Table 3: Summary of exceedances during period (May 2023)

Monitoring Site ID	Period of trigger alert & Concentration recorded ($\mu\text{g m}^3$)	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ009	06/05/23 07:00–07:59; 226.3 $\mu\text{g/m}^3$ 09/05/23 11:00-11:59; 293.3 $\mu\text{g/m}^3$ 27/05/23 07:00-07:59; 291.5 $\mu\text{g/m}^3$ 30/05/23 09:00 – 09:59; 208.0 $\mu\text{g/m}^3$	The exceedances are thought to be the result of demolition/ refurbishment works being undertaken at Euston House, which is located adjacent to the monitor. The works at Euston House are unrelated to 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. Will also attempt to speak with the contractor at Euston House.

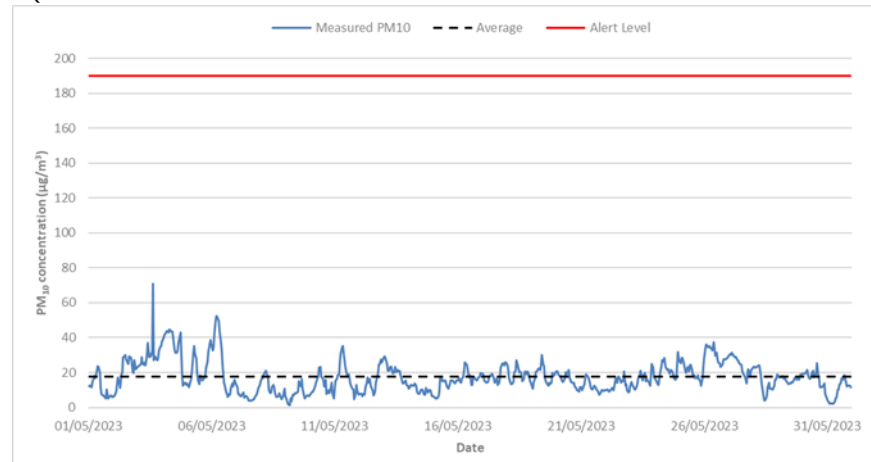
Figure 6: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



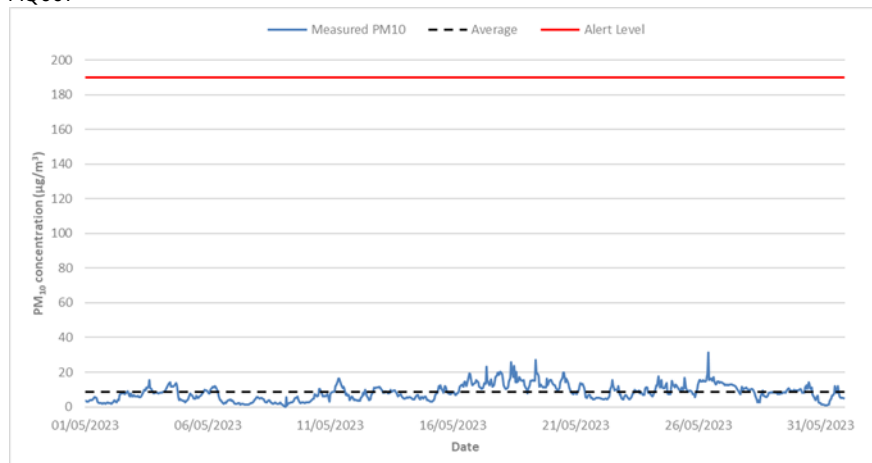
AQ005



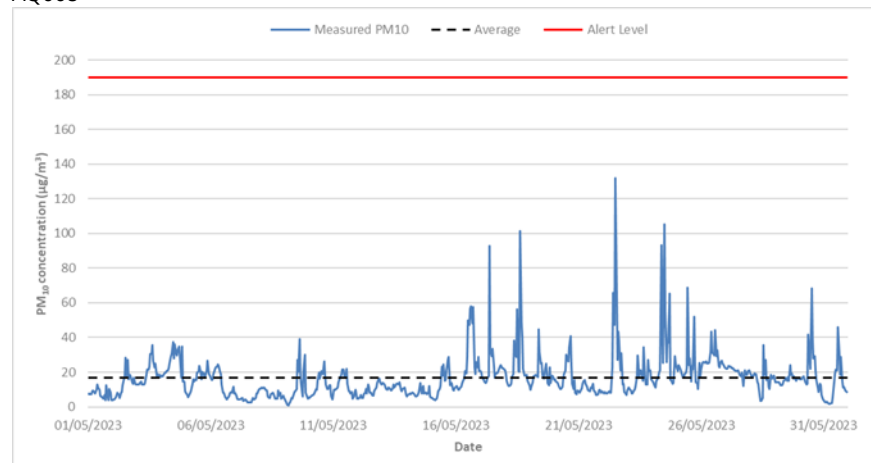
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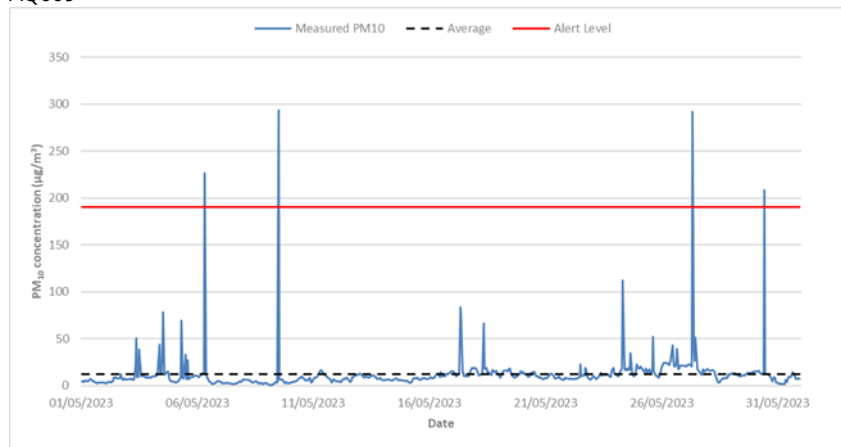
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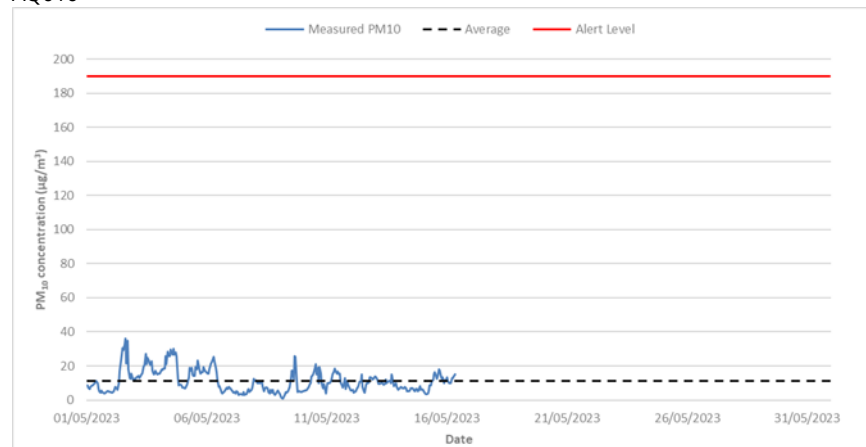
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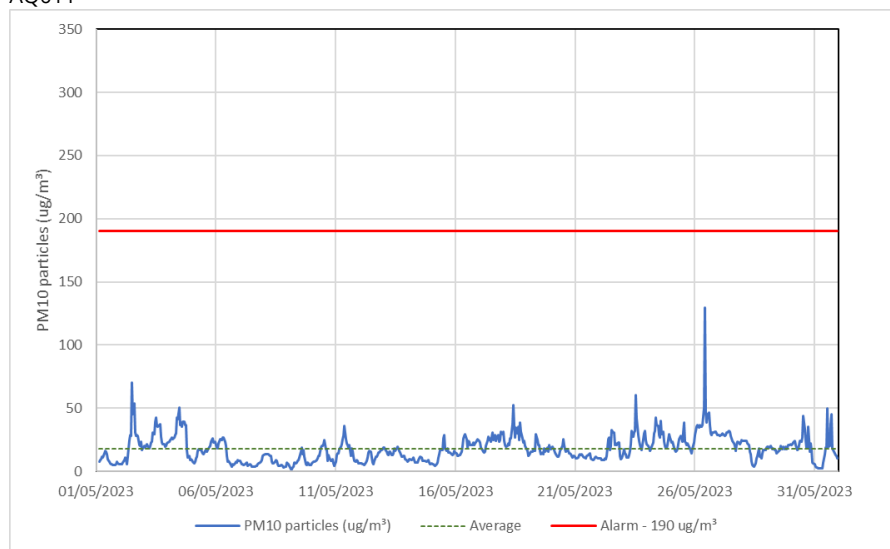
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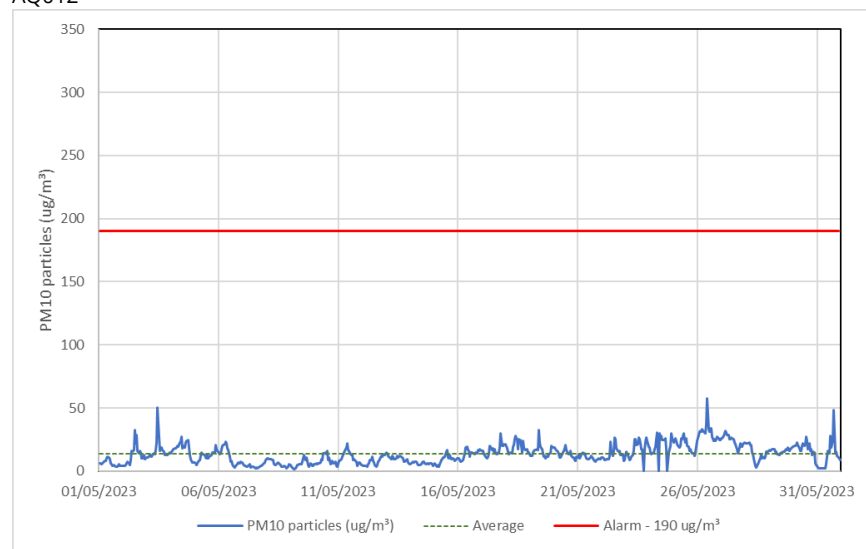
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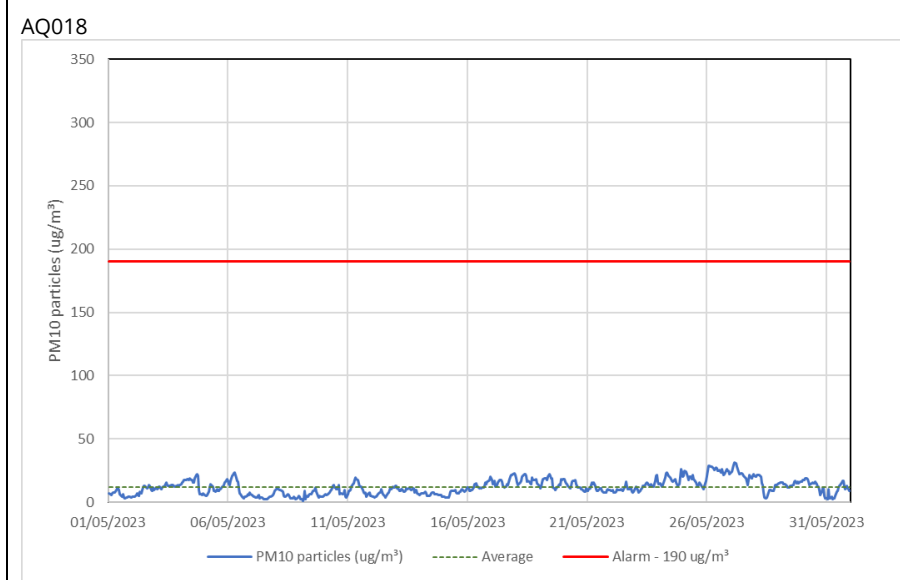
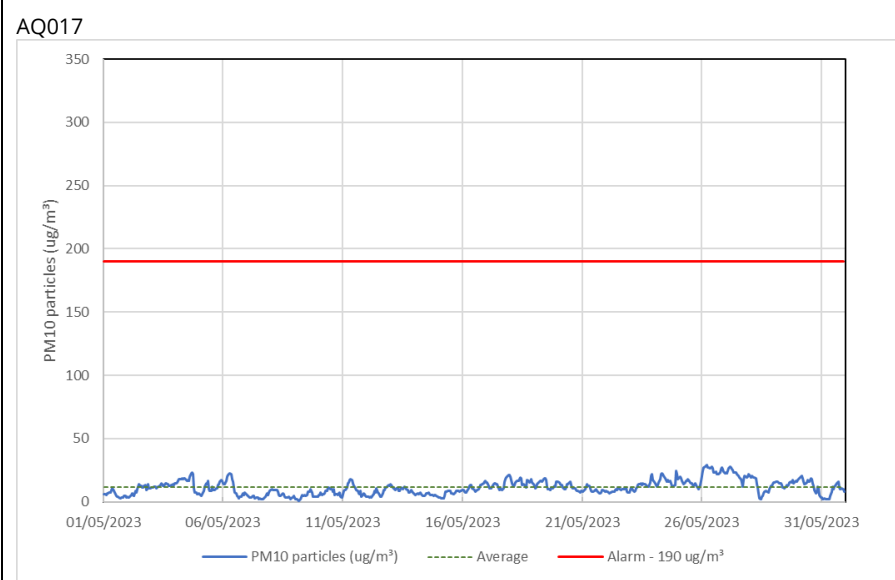
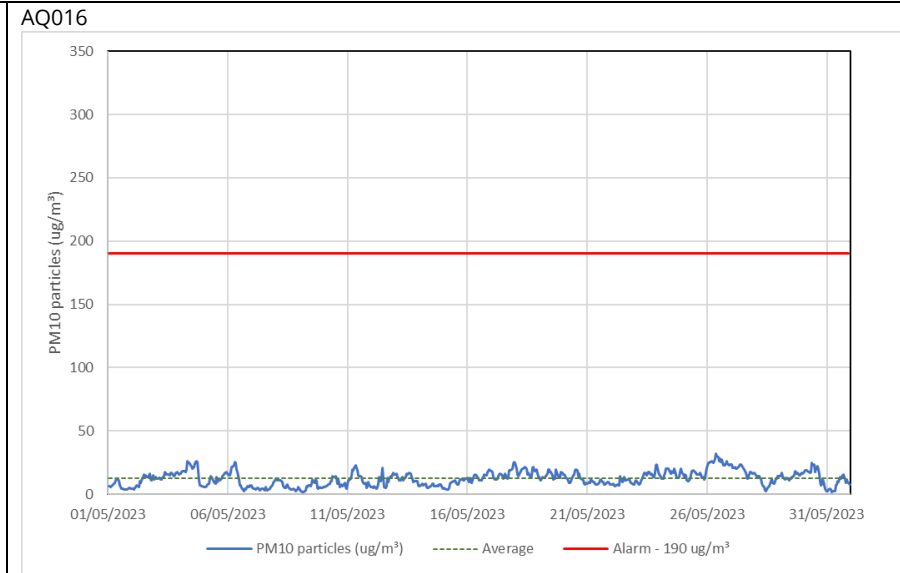
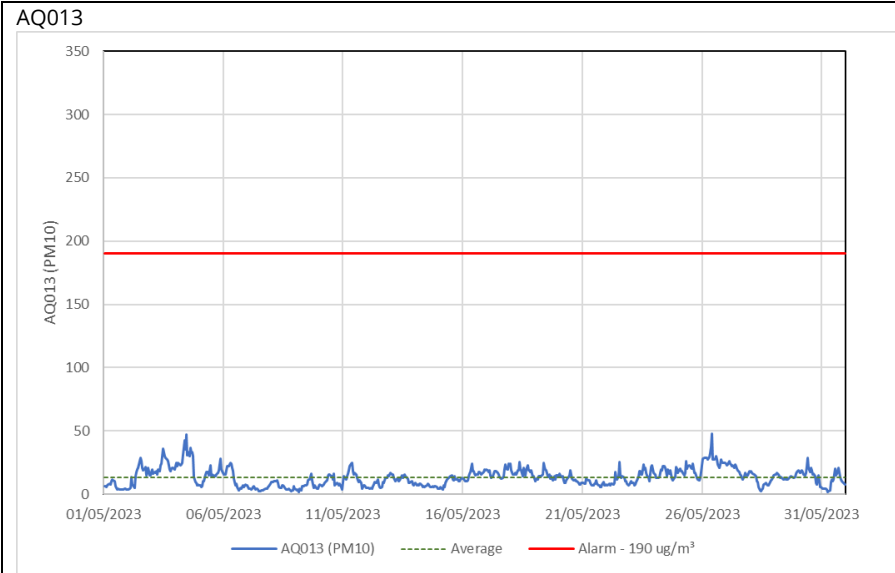


AQ011

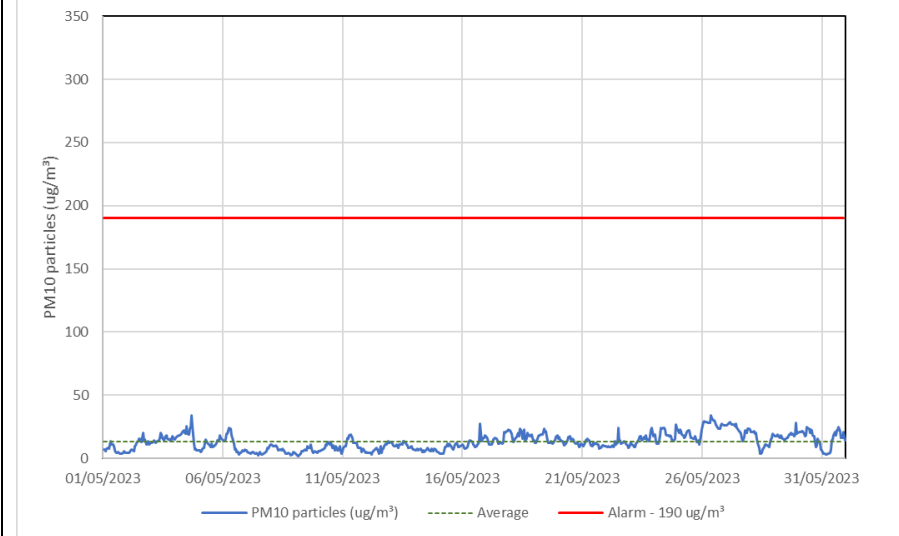


AQ012

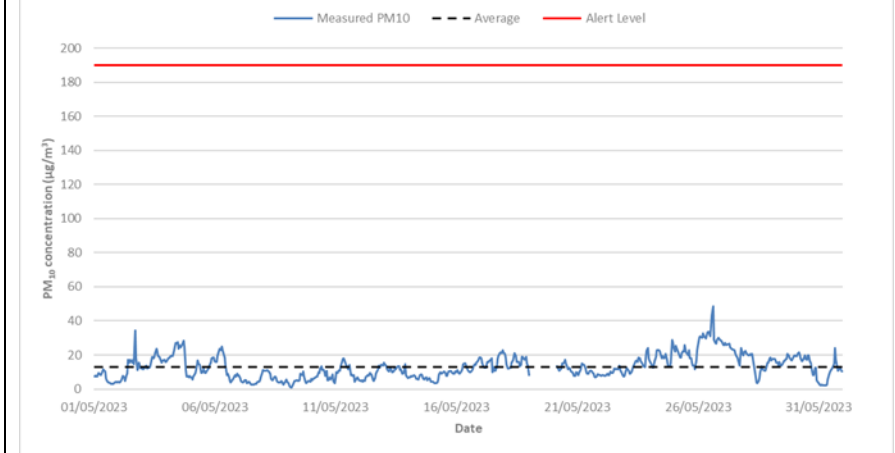




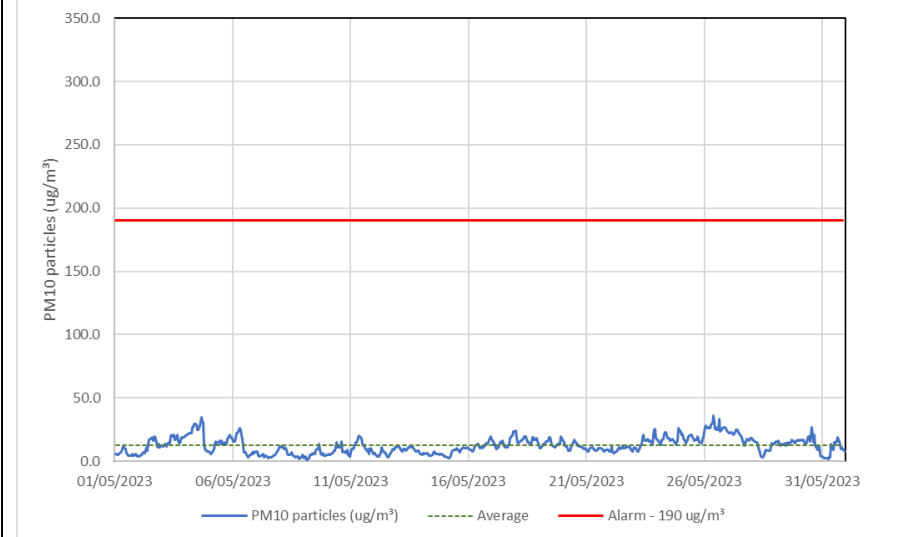
AQ019



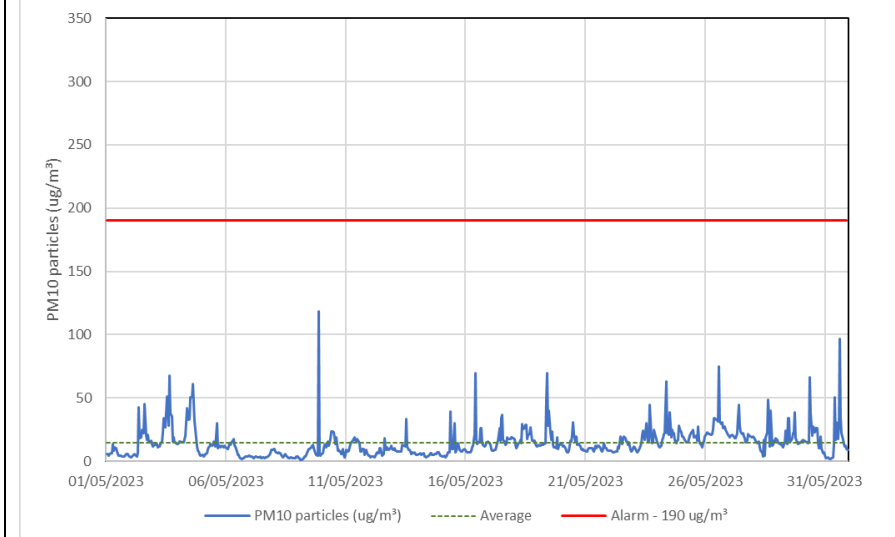
AQ020



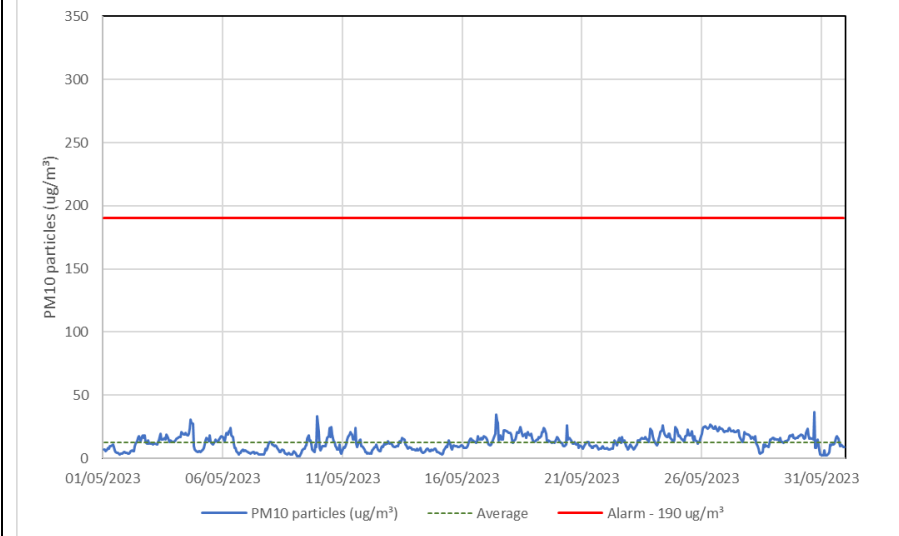
AQ021



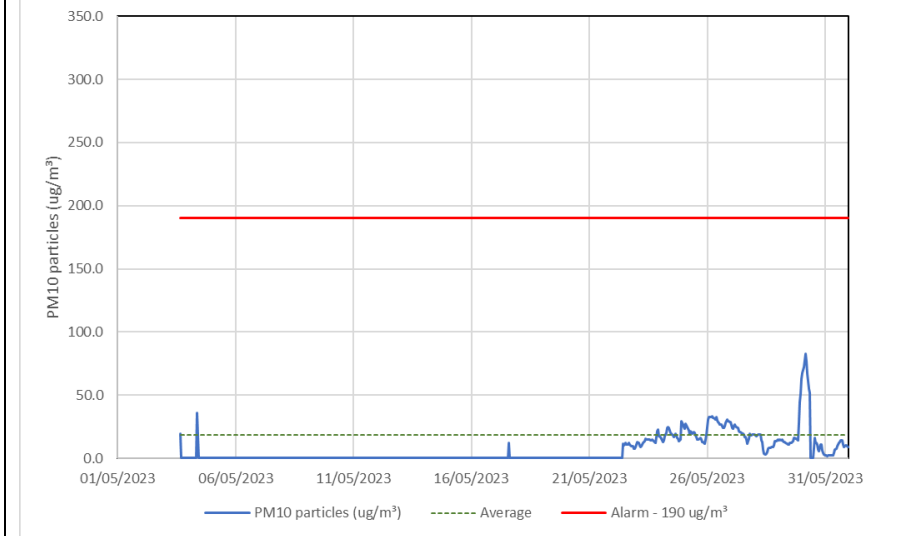
AQ044



AQ045



AQ054



Appendix C – Air Quality Monitoring Results

Table 4: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2023 (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	45	46	37	40									42
HS2-000020BM7	Chalton Street	529894, 182702	50	53	48	41									48
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	48	62	41	Tube Missing									50
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	43	50	25	47									41
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	51	59	37	Tube Missing									49
HS2-000020BMB	Whitfield Street	529273, 182114	38	43	33	33									37
HS2-000020BMC	Hampstead Road	529232, 182511	56	69	63	52									60
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	36	34	24	28									31
HS2-000020BMH	Nash Street	528861, 182717	37	30	24	24									29

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	37	37	14	29									29
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	47	52	38	40									44
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	35	37	Tube Missing	26									33
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	57	59	35	39									47
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	41	46	23	24									34
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	42	42	30	Tube Missing									38
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	32	38	27	28									31
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	43	45	36	35									40
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	48	50	31	38									42
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	44	45	38	36									40
HS2-000020BMV	Primrose Hill Road	527538, 184250	35	44	29	25									33

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	Tube Missing	50	33	41									41
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	71	67	53	62									63
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	36	37	25	25									31
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	27	27	21	21									24
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	32	40	30	29									33
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	36	36	24	Tube Missing									32
HS2-000020BNQ	Camley Street	529735, 183737	25	41	26	29									30
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	35	32	Tube Missing	32									33
HS2-000020BNZ	Mansfield Road	528050, 185508	40	44	27	23									34
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	46	56	42	43									46
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	41	40	32	30									36
HS2-000020BPB	Camden High Street	528966, 183735	60	65	40	49									54
HS2-000020BPC	Castlehaven Road	528788, 184591	39	39	30	26									33
HS2-000020BPD	Prince of Wales Road	528571, 184683	31	35	16	27									27

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BPE	Haverstock Hill	527710, 184749	36	39	27	24									31
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	42	42	33	27									36
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	51	47	36	Tube Missing									45
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	40	45	30	28									36
HS2-000020BPX	Netley Street	529177, 182625	32	Tube Missing	21	31									28
HS2-000020BPY	Stanhope Street	529060, 182947	31	37	19	25									28
HS2-000020BPZ	Albany Street	528790, 182923	27	40	25	27									29
HS2-000020BQ0	Werrington Street	529493, 183113	34	35	19	24									28
HS2-000020BQ1	Polygon Road	529574, 183045	30	36	22	25									28
HS2-000020BQ2	Alexandra Place	526320, 183980	32	35	23	24									29
HS2-000020BQ3	Harrington Square	529228, 183172	42	38	26	33									35
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	43	41	28	26									34
HS2-000020BQ5	Adelaide Road	527713, 184392	35	41	17	Tube Missing									31
HS2-000020BQ6	Mornington Terrace	528836, 183474	34	34	26	25									30
HS2-000020BQ7	Arlington Road	529009, 183479	33	35	24	25									29

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BQ8	Clarkson Row	529024, 183213	39	39	25	25									32
HS2-000020BQ9	Park Village East	528923, 183121	30	33	17	22									25
HS2-000020BQA	Eversholt Street	529386, 183132	52	45	34	38									42
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	30	34	27	24									29
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	40	40	33	25									35
HS2-000020BQD	Drummond Crescent	529648, 182856	38	33	Tube Missing	Tube Missing									35
HS2-000020BQJ	Grafton Way	529380, 182225	56	56	38	34									46
HS2-000020BQL	Delancey Street	528768, 183581	46	50	Tube Missing	34									43
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	36	40	26	29									33
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	37	36	25	26									31
HS2-000020BQT	Drummond Street	529385, 182581	42	46	29	31									37
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	44	46	32	30									38
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	51	54	45	42									48

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	46	64	59	Tubes Missing									57
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	39	40	30	30									35