

Air Quality and Dust Monitoring Monthly Report – December 2021

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 November and December 2021 respectively.
- 1.1.2 Figure 1 to Figure 4 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 phase of works commenced in December 2017 and is expected to be completed by 2025. The current and planned worksites, as presented in Appendix A, Figure 1 to Figure 4, include:

Skanska Costain Strabag Joint Venture (SCSjv)

- Adelaide Road Vent Shaft –Concreting and utilities works, vegetation clearance, piling operations and groundworks;
- Site office and welfare set up by Granby Terrace Bridge;
- Euston Scissor Cut – groundworks, piling operations and materials management;
- Euston Throat Retained Cut groundworks, piling operations and materials management; and
- Hampstead Road Bridge –Utilities diversion works.

Costain Skanska Joint Venture (CSjv)

- Utilities ground excavation works on Harrington Street and Varndell Street now complete.

Mace Dragados Joint Venture (MDjv)

ITR

- Tree protection and debris removed from outside hoarding line and Anticlimb top rollers fitted to top of vulnerable areas;
- Grass cut and site tidied for Christmas break period; and
- Safety barriers set up for new year works.

TSS

- Removal of services along eastern and southern elevations – Excavation & Trial holes;
- Sheet pile installation;
- Started excavation & pile cropping along south-east section;
- VPT tunnel - Coring and breakthrough piles, prep works for waterproofing and snagging; and
- FVA tunnel – Prep works inside the cable tunnel for strengthening works.

Main Site (NTH)/ Maria Fidelis

- Careys - Finished upper wall concrete and 90% of wall upfill, installed L shaped units and continued upfill;
- Keltbray – Installed test pile on the lower level of NTH. Installed piling mat at Maria Fidelis playground and begin piling; and
- McAllister – Started excavation for manhole installation.

Utilities

- Sewer survey across Maria Fidelis site from access and in Starcross Street by McAllister's; and
- Commenced excavation works to new sewer manhole M7 in Maria Fidelis site by McAllister's.

Two Towers

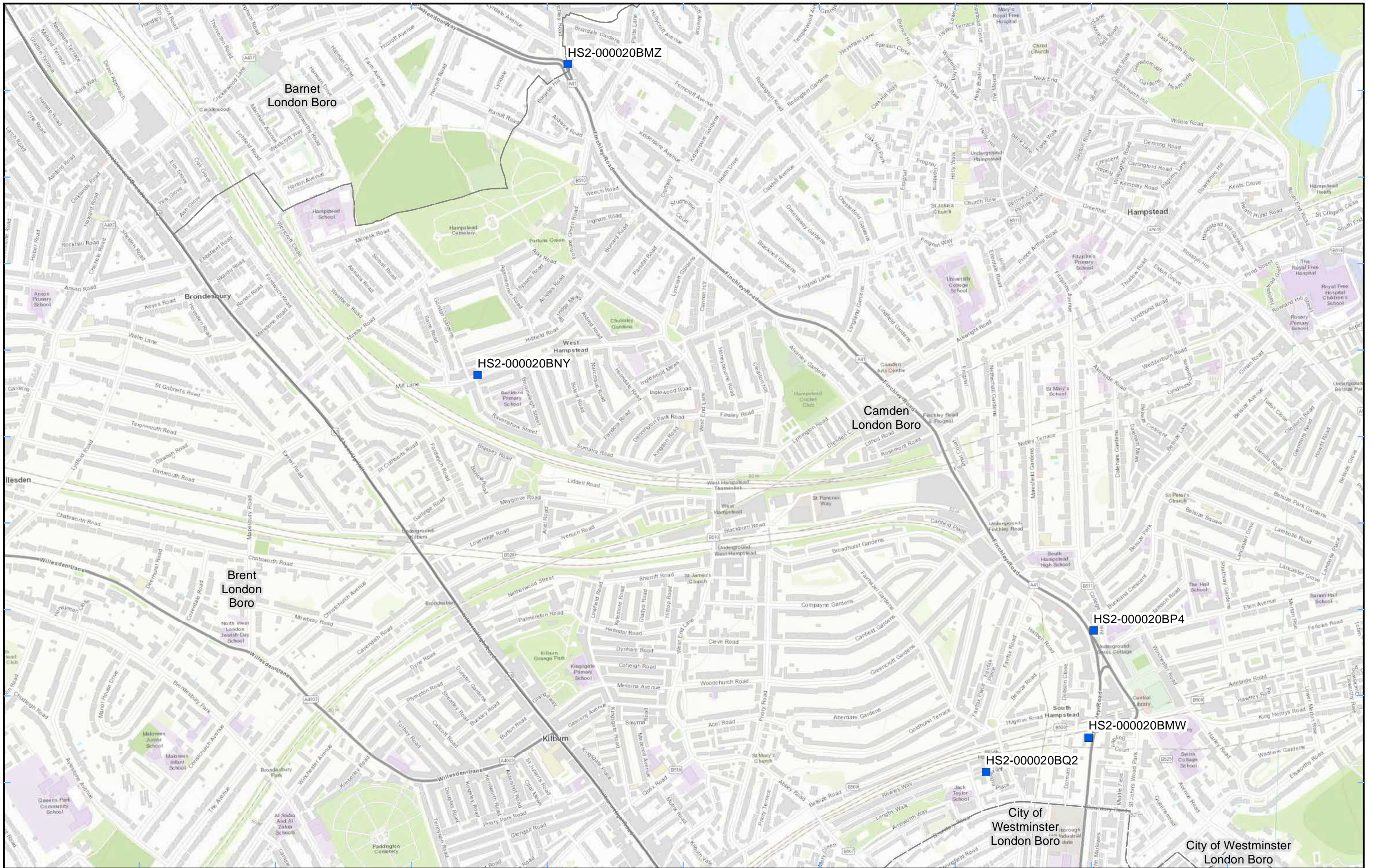
- North east area 4 piles cropped and arisings removed / Backfill commenced;
- West 2 Sheet piles installed. Welded & tested; and
- South east 5 piles cropped down and backfilled for Christmas break.

- 1.1.5 Twenty-one (21) dust monitors are installed around worksites, where demolition, groundworks and materials management 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 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 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 Dust trigger alerts were recorded during the monitoring period (December 2021) and are reported in Appendix B, Table 2.

- 1.1.9 Data capture was below 90% for monitor AQ005 in December 2021 due to an air flow error. A new monitor has since been installed.
- 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 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 2021 running mean.

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: 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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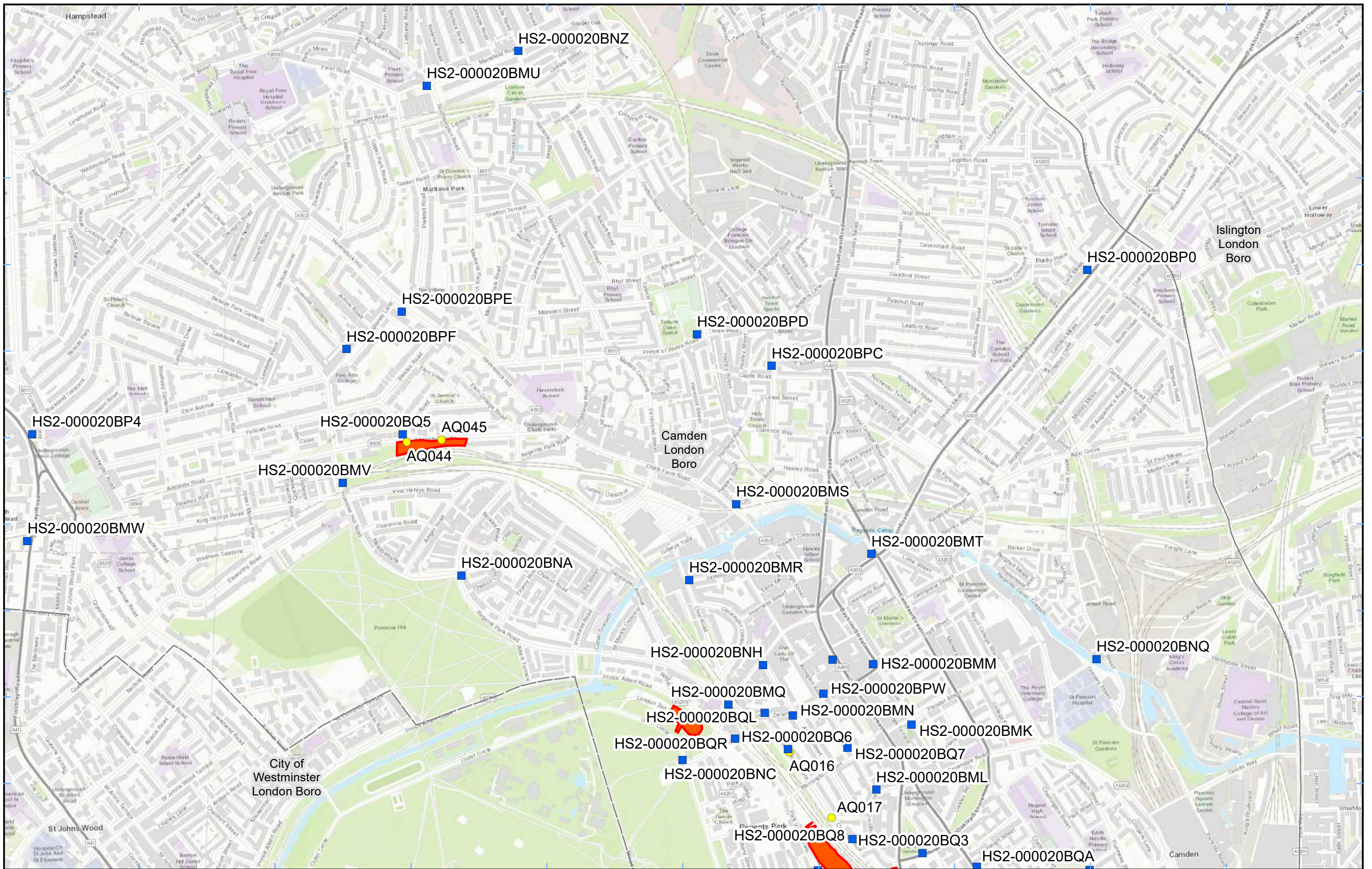
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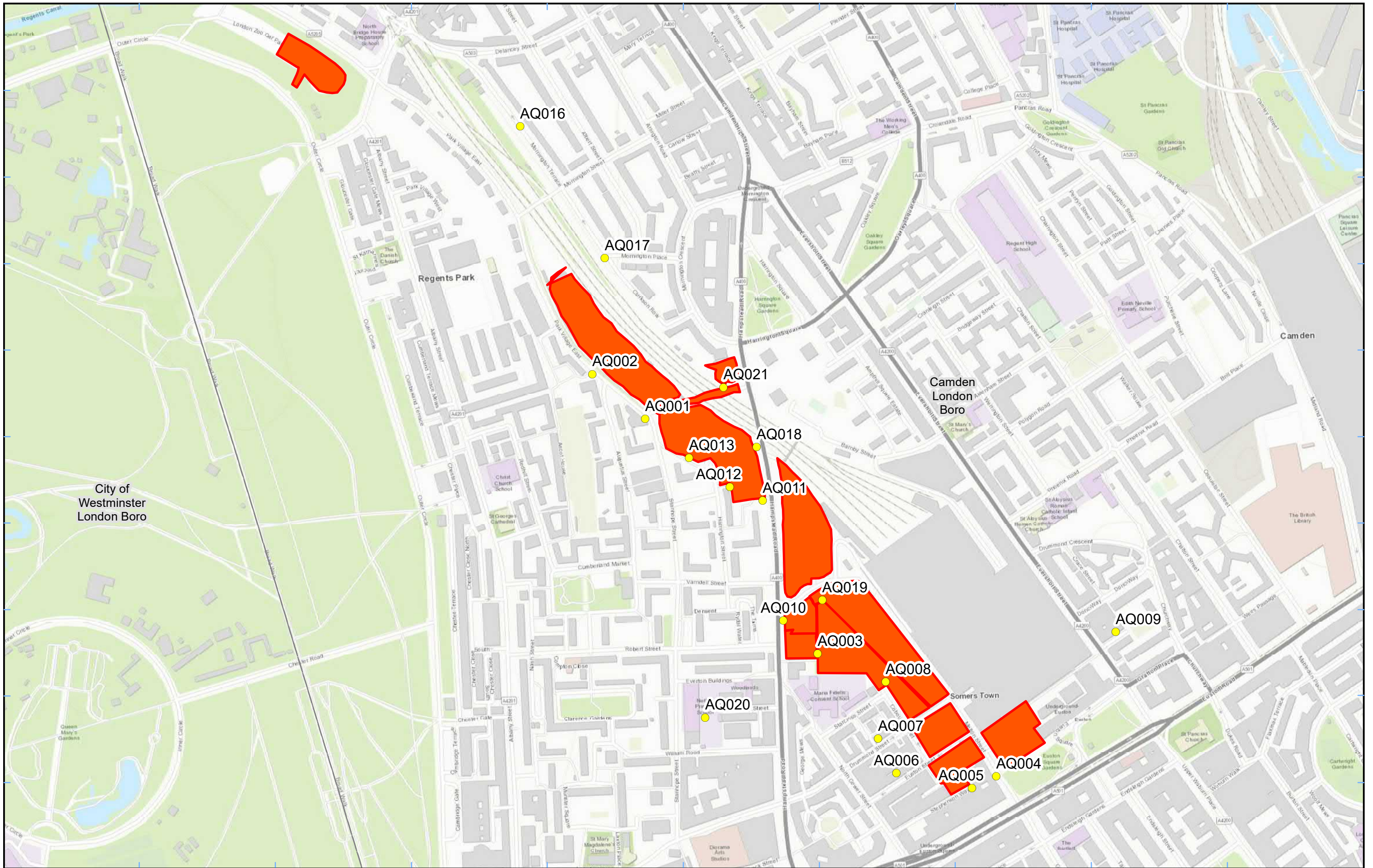


Legend
■ Diffusion Tube ■ Worksite
● Dust Monitor District Borough Unitary Boundaries

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Map Number
 Worksite and Monitoring Locations
 In LBC (Sheet 2)
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Legend
 ● Dust Monitor □ District Borough Unitary Boundaries
 ■ Worksite

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Map Number
 Worksite and Monitoring Locations
 In LBC (Sheet 3)
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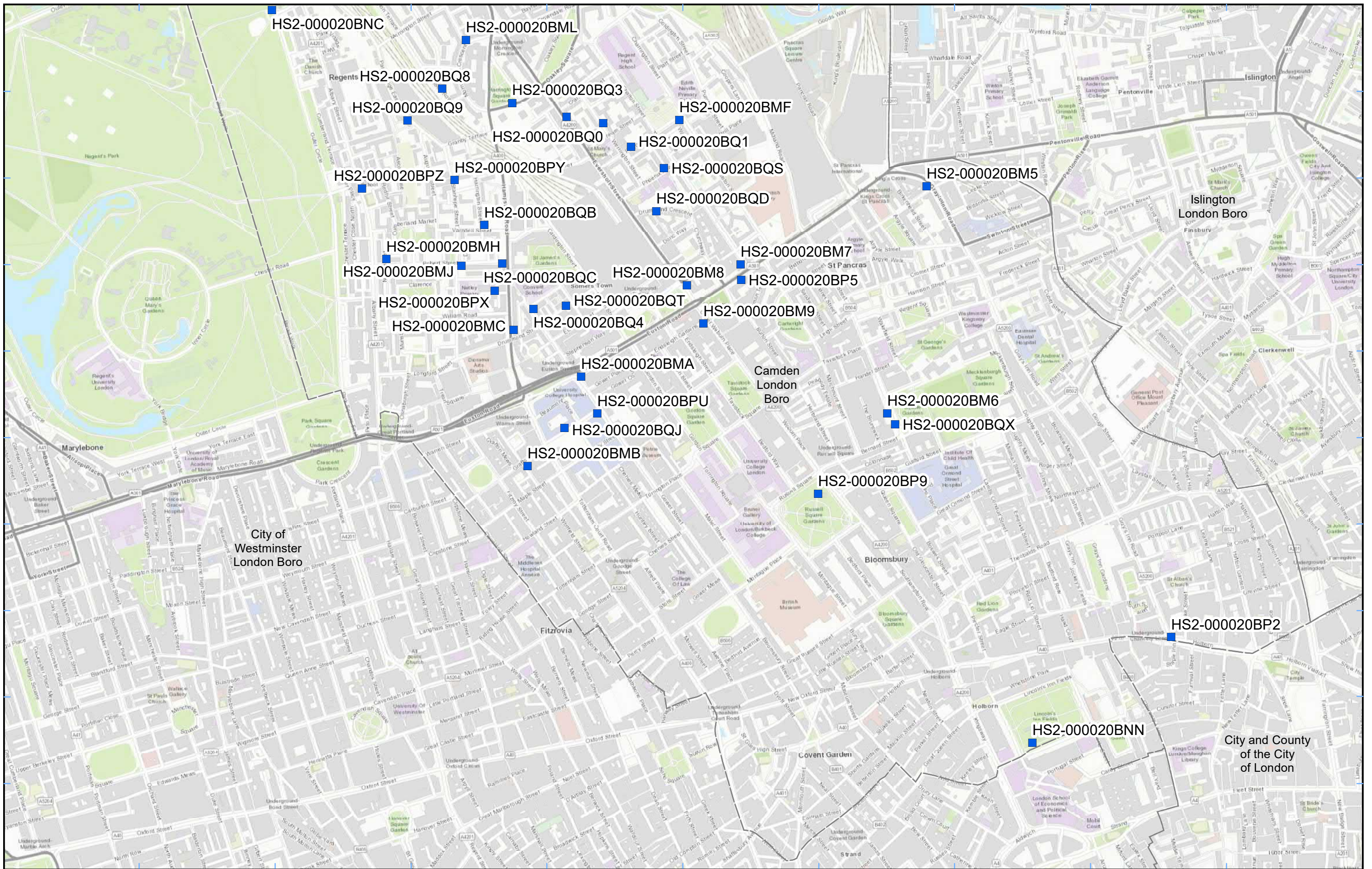
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Legend
■ Diffusion Tube
 □ District Borough Unitary Boundaries

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


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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and December 2021 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	Y	N	15.2	2.0	71.0	0	100.0
AQ002	528924, 183130	Park Village East	M	Y	N	9.9	1.3	54.6	0	100.0
AQ003	529273, 182698	St James' Gardens	M	Y	N/A	4.0	0.1	31.9	0	100.0
AQ004	529533, 182519	Melton Street	H	Y	N/A	11.4	1.1	75.5	0	100.0
AQ005	529498, 182502	Stephenson Way	H	Y	N/A	9.7	1.2	43.0	0	87.1
AQ006	529388, 182524	Euston Street	H	Y	N/A	9.3	1.2	45.7	0	100.0
AQ007	529361, 182574	Drummond Street	H	Y	N/A	8.6	0.9	45.2	0	100.0
AQ008	529372, 182657	Cobourg Street	H	Y	N/A	9.8	1.0	49.2	0	100.0
AQ009	529707, 182730	Eversholt Street	H	Y	N/A	10.1	1.1	47.7	0	100.0
AQ010	529223, 182746	Hampstead Road South	M	Y	N/A	11.2	1.3	53.1	0	100.0
AQ011	529176, 182922	Hampstead Road	M	Y	N	15.2	1.5	517.4	7	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	Y	N	10.4	1.1	67.9	0	99.7
AQ013	529066, 182990	Regents Park Estate	M	Y	N	11.4	1.3	270.7	1	96.6
AQ016	528820, 183498	Mornington Terrace North	M	Y	N	11.4	1.5	179.4	0	100.0
AQ017	528962, 183274	Mornington Terrace South	M	Y	N	8.3	1.1	45.7	0	100.0
AQ018	529192, 183071	Hampstead Road North	M	Y	N	8.7	1.0	45.8	0	100.0
AQ019	528689, 183500	Park Village East (North)	M	Y	N	8.9	1.0	49.8	0	100.0
AQ020	529109, 182605	Netley School	n/a	Y	N/A	28.2	1.4	220.2	3	99.9%
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge	M	Y	N	11.0	1.4	122.3	0	100.0
AQ044	527725, 184369	Adelaide Road 1	M	Y	N	12.4	1.3	319.7	1	99.2
AQ045	527826, 184375	Adelaide Road 2	M	Y	N	10.7	1.2	351.3	1	99.7

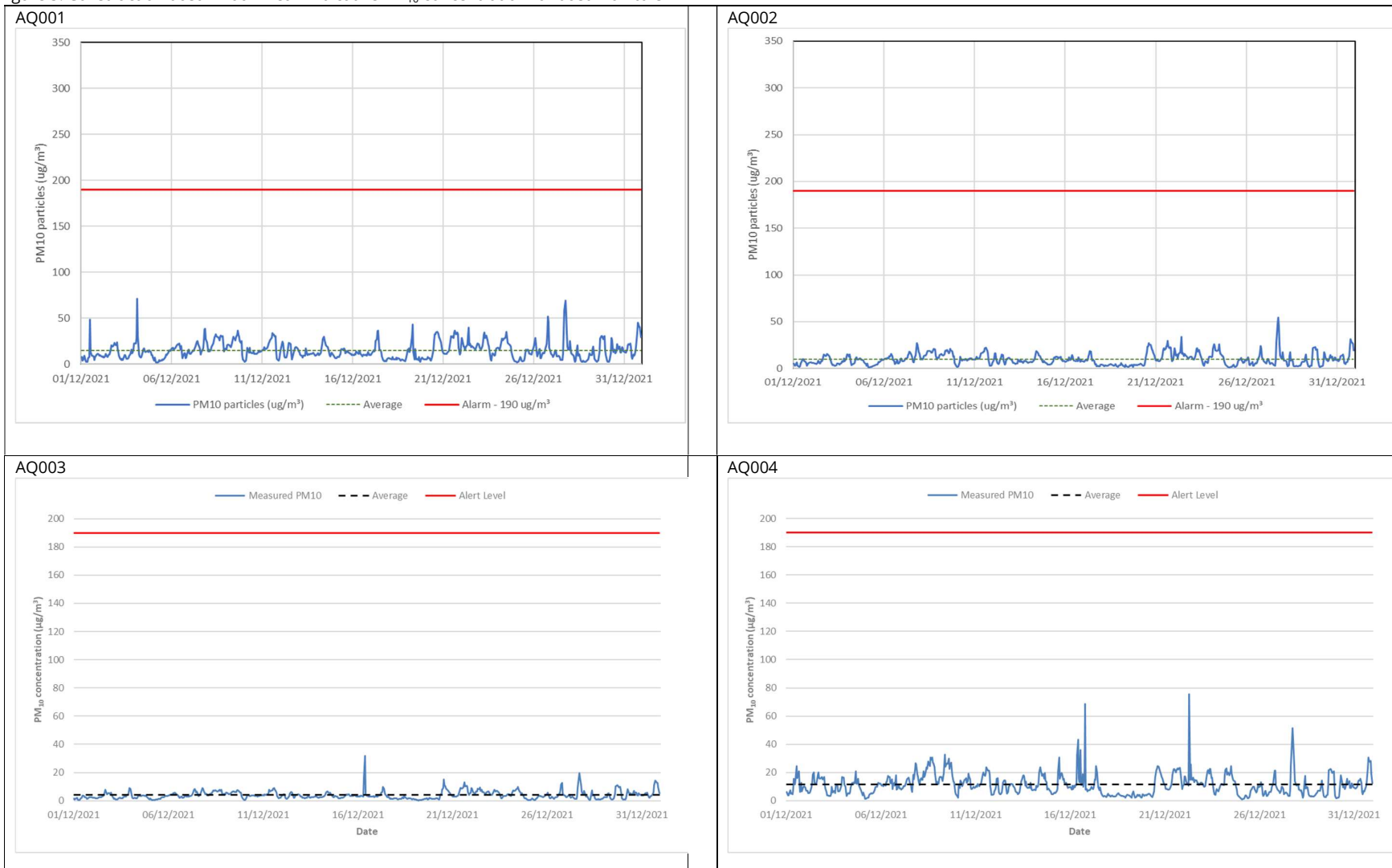
Table 2: Summary of exceedances of trigger level in December 2021

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ011	08/12/2021 14:01 - 15:00; 266.2 µg/m ³	No fugitive dust was observed on site as the ground and wider work areas were very damp/ wet with recent rainfall over the past number of days. Backfilling of a trench with aggregate using an excavator was being undertaken nearby the monitor at the time so it is considered this was potentially the cause of the isolated trigger, although dust was not observed to be an issue.	Subsequent monitored readings dropped and remained low thereafter. The site team will continue to remain vigilant ensuring suitable dust suppression and that good standards of housekeeping are maintained at all times.
AQ011	14/12/2021 13:01 - 14:00; 311.6 µg/m ³	No fugitive dust was observed on site as the ground and wider work areas remain damp. Machinery movements in the area were potentially the cause or localised breaking of concrete with hand brakers towards the site entrance were the cause of the trigger, but nothing obvious.	Subsequent monitored readings dropped and remained low thereafter. The site team were reminded to ensure suitable dust suppression is available and used as required regardless of the damp conditions.
AQ013	15/12/2021 15:01 - 16:00; 270.7 µg/m ³	At the time of the trigger alert from dust monitor no dusty activities were taking place.	The trigger and subsequent erratic readings were considered due to the hydro-scabbling taking place in the trench below, creating a fine mist.
AQ011	16/12/2021 09:01 - 10:00; 262.1 µg/m ³ 14:01 - 15:00; 355.3 µg/m ³	At the time of the 1 st trigger alert site materials and equipment were being moved in the area near to the monitor. Works stopped on receipt of the trigger and no obvious increased levels of dust were observed. In the afternoon lifting of the concrete slab and the clearing of materials took place. Dust suppression was implemented as part of the activity and observed to be effective. However, these works were stopped on receipt the second trigger.	Works were stopped for the remainder of the day and the team re-briefed. Works were rescheduled for the next day with dust suppression to be applied before the works recommence as well as during. Monitored dust levels and the works themselves will be constantly checked to ensure dust suppression is being effectively applied.
AQ011	17/12/2021 10:01 - 11:00; 517.4 µg/m ³ 11:01 - 12:00; 406.1 µg/m ³ 14:01 - 15:00; 514.1 µg/m ³	Lifting of the concrete slab took place at the time of the 1 st trigger. Works were stopped immediately and the area was damped down. The 2 nd trigger was received an hour later after works had long since stopped. The site was damped down again, and it was considered that the levels were not right due to the dust monitor AQ012 (20m away) recorded no changes. It was concluded that the triggers were a result of the monitors recording the water mist as dust.	For further work in the new year other dust suppression methods will be explored, keeping the works dampened down but without creating so much mist so near the monitor. .

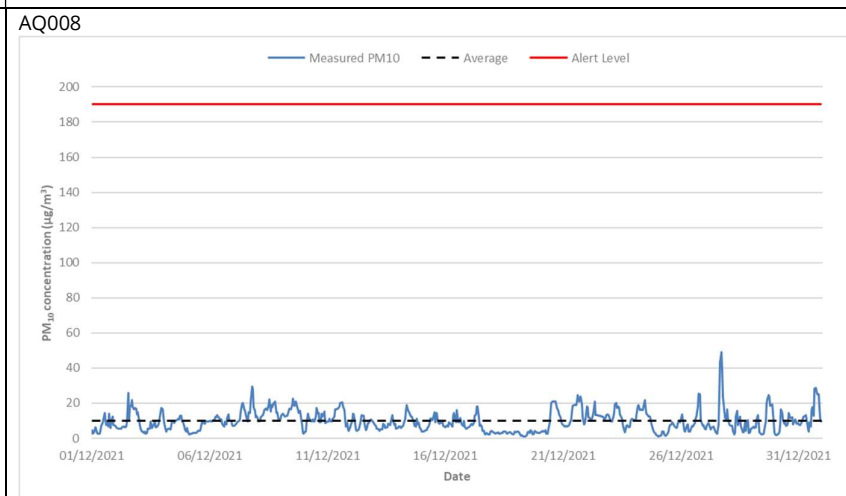
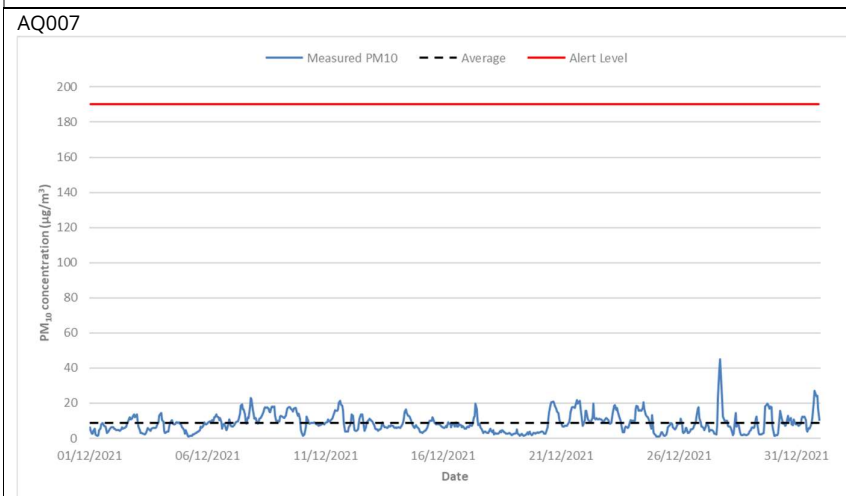
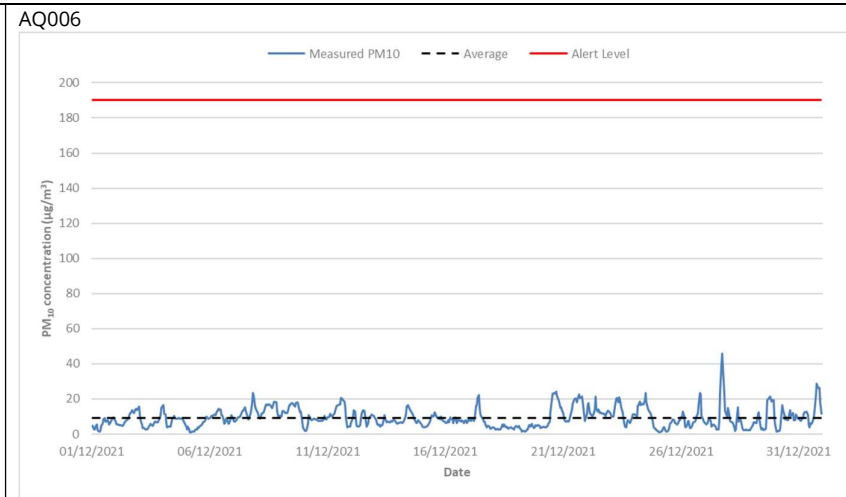
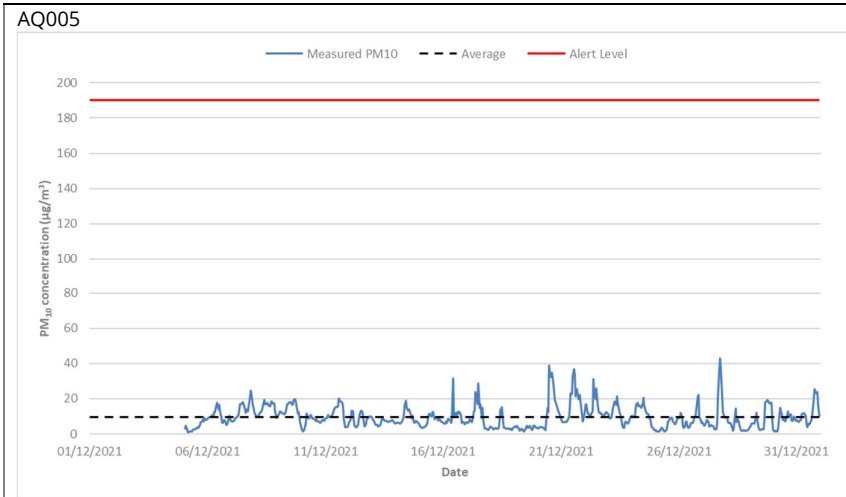
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		<p>Works recommenced at about 14:15 with an additional barrier near the work area with heras fencing and acoustic blankets to help prevent the wider drift of spray.</p> <p>The area was completely damp, however another large trigger of more was received.</p> <p>Levels dropped again once the works were stopped.</p>	
AQ044	26/12/2021 19:01 - 20:00; 319.7 µg/m ³	<p>The trigger was recorded when the site was shut and is therefore considered to be caused by a short power loss.</p>	N/A
AQ045	26/12/2021 19:01 - 20:00; 351.3 µg/m ³		
AQ020	26/12/2021 18:01 - 19:00; 220.2 µg/m ³ 19:01 - 20:00; 206.0 µg/m ³	<p>Alert is assumed to be due to a faulty heated inlet causing exceedances to likely be caused by fog or wet weather events.</p>	Heated inlet to be replaced.
AQ020	27/12/2021 18:01 - 19:00; 204.1 µg/m ³	<p>No dusty activities were programmed or being undertaken at the time of the exceedances.</p>	

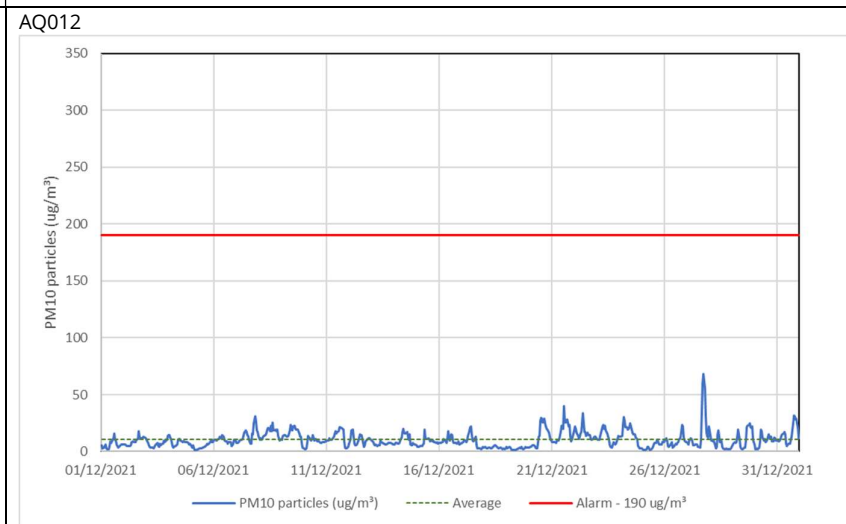
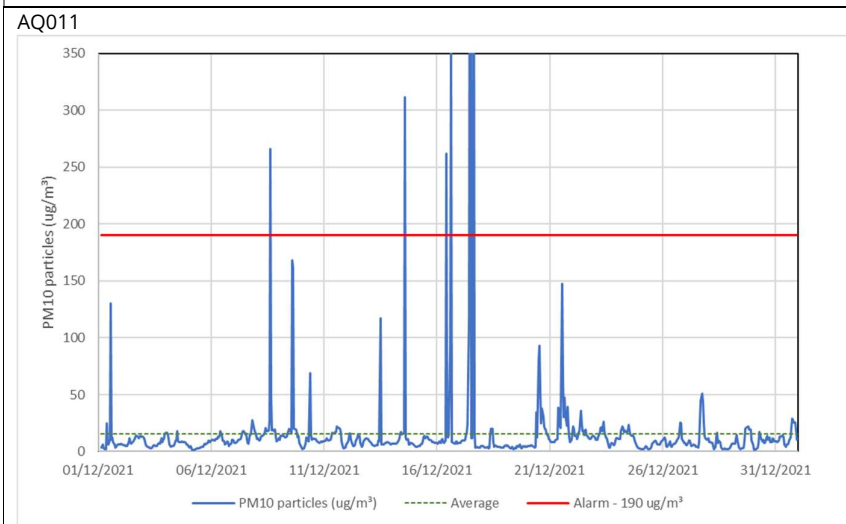
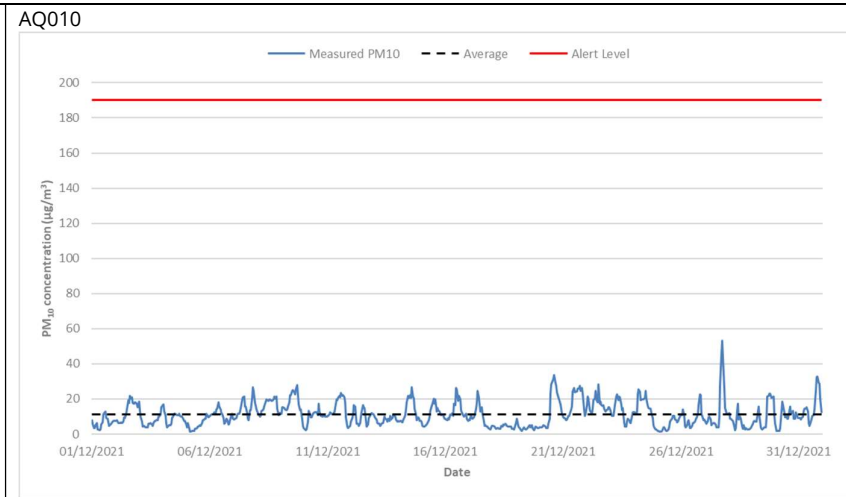
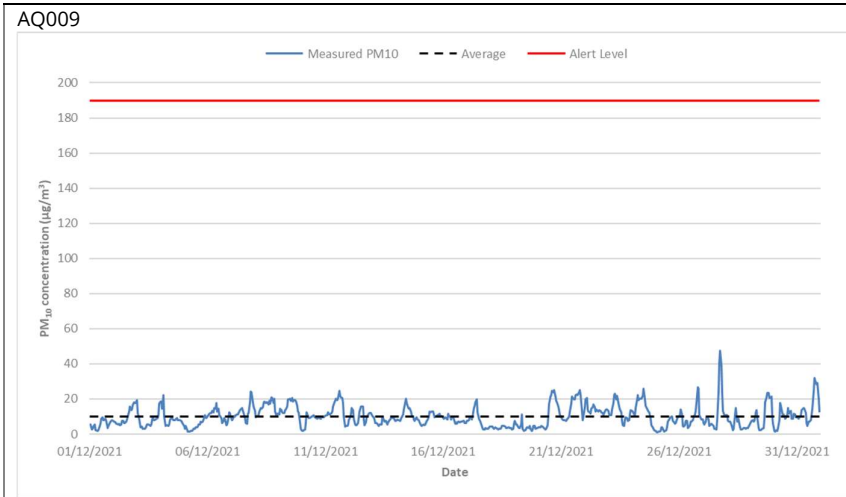
Figure 5: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitors



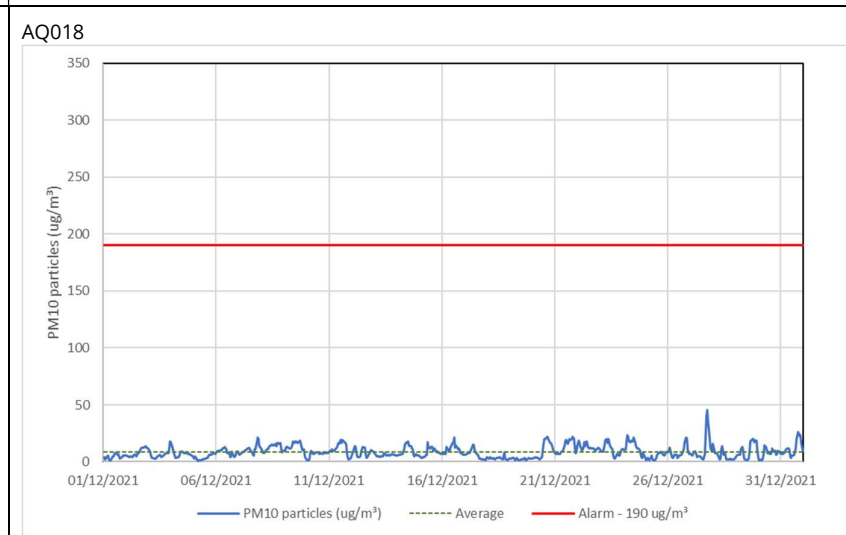
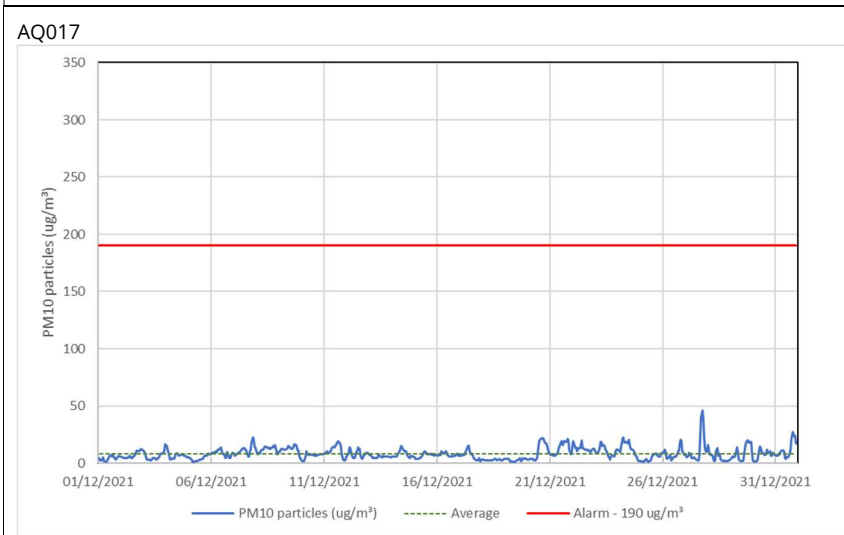
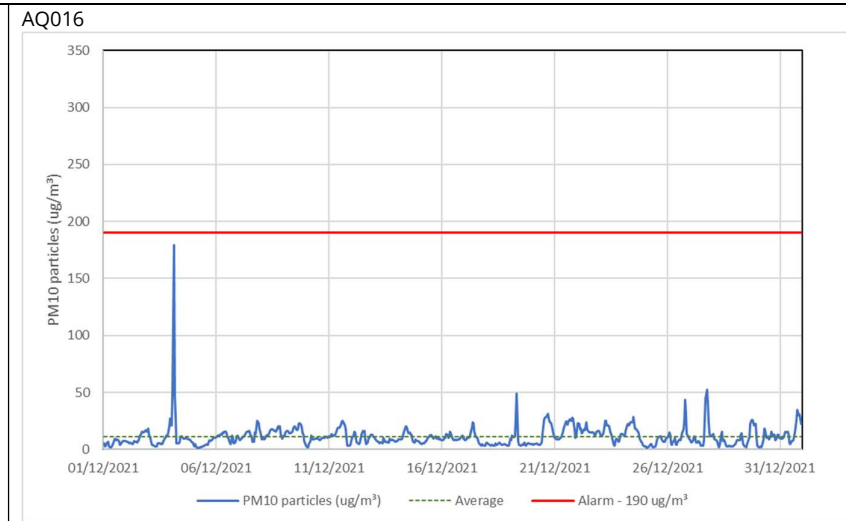
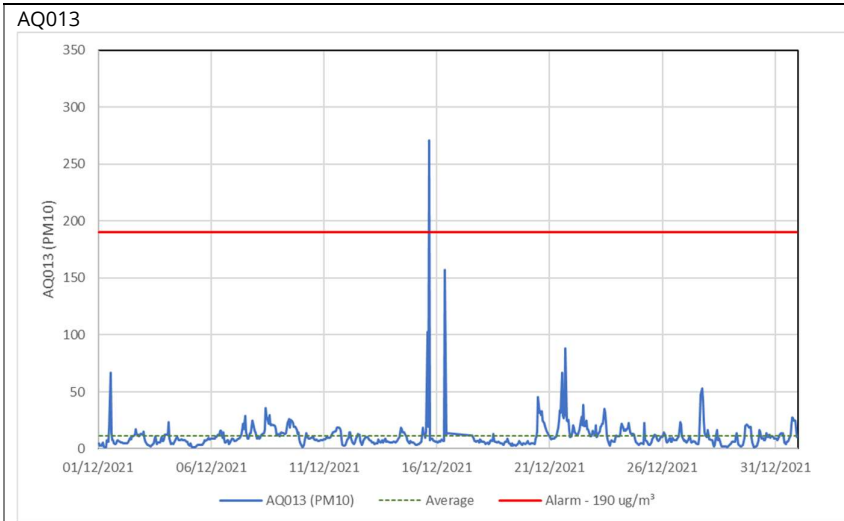
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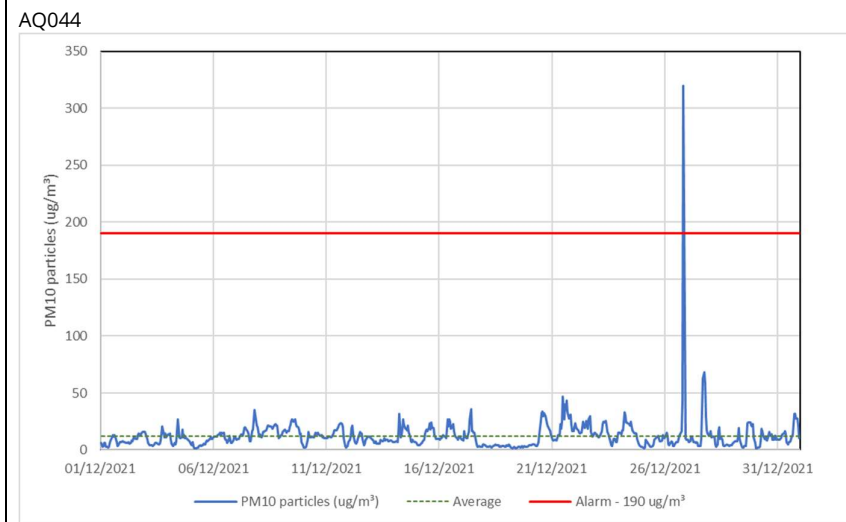
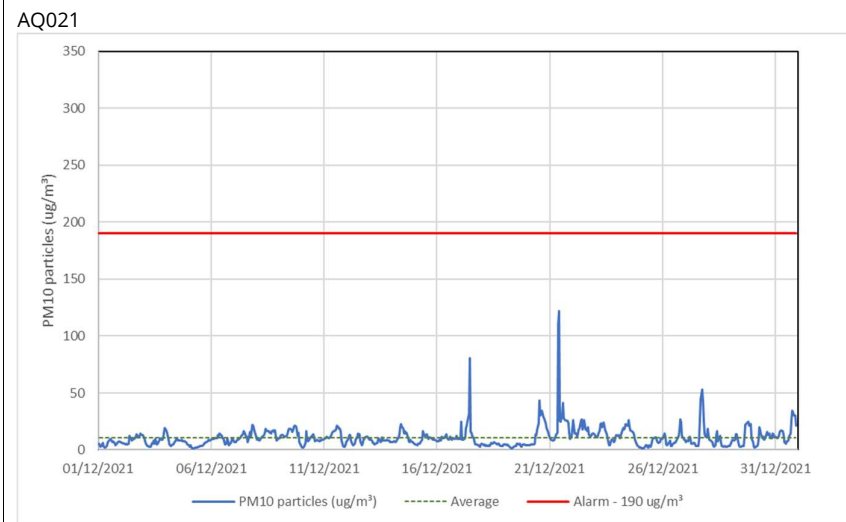
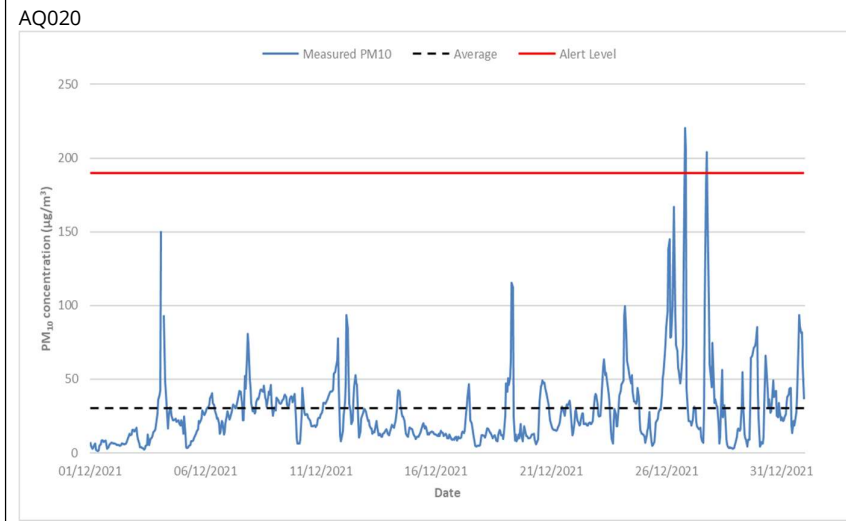
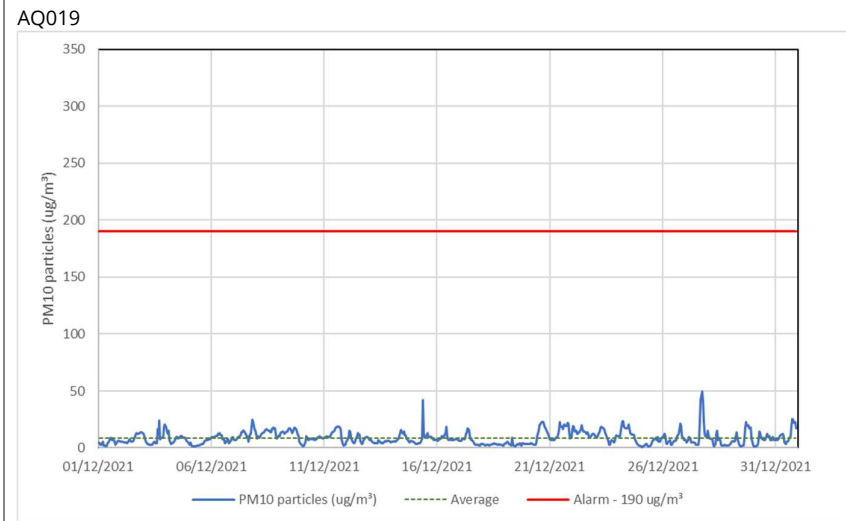


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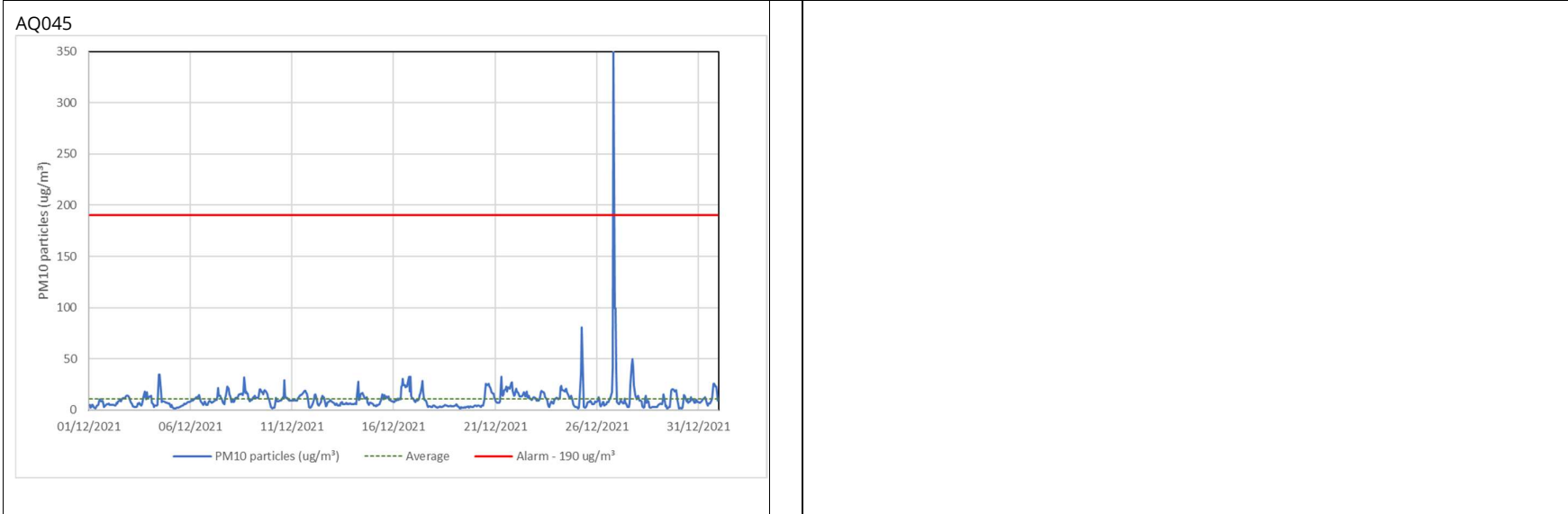


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Appendix C – Air Quality Monitoring Results

Table 4: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2021 (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	50	41	39	38	40	33	30	30	42	45	49		40
HS2-000020BM7	Chalton Street	529894, 182702	53	57	48	Tube Missing	Tube Missing	37	29	Tube Missing	50	Tube Missing	Tube Missing		46
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	58	60	48	45	43	34	34	38	48	55	52		47
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	52	48	43	46	44	43	38	35	50	48	52		45
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	53	47	44	42	39	36	36	37	50	51	49		44
HS2-000020BMB	Whitfield Street	529273, 182114	44	45	37	39	30	26	No Data	23	36	39	17		33
HS2-000020BMC	Hampstead Road	529232, 182511	68	73	65	67	66	64	61	57	84	71	51		66
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	38	37	28	34	25	21	12	17	35	32	39		29
HS2-000020BMH	Nash Street	528861, 182717	39	38	30	30	30	23	23	21	35	35	21		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.

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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
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	37	39	33	36	32	30	Tube Missing	24	35	36	38		34
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	50	51	44	47	43	37	No Data	32	48	52	40		44
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	42	38	31	32	26	20	21	17	32	30	36		30
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	57	50	49	44	46	43	46	38	56	54	58		49
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	Tube Missing	38	38	34	32	26	21	26	34	38	20		31
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	46	47	41	47	42	35	41	33	49	46	40		42
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	39	33	36	32	Tube Missing	24	No Data	19	34	32	35		32
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	50	43	40	42	42	40	No Data	33	41	42	42		41
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	50	49	49	50	37	34	35	41	46	48	44		44
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	40	38	36	37	36	36	32	31	41	39	36		36
HS2-000020BMV	Primrose Hill Road	527538, 184250	41	37	30	31	30	23	27	23	39	Tube Missing	41		32

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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
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	50	51	45	53	53	47	43	36	59	55	49		49
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	Tube Missing	Tube Missing	50	64	62	63	57	51	72	61	Tube Missing		60
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	40	33	26	27	26	22	21	19	29	34	34		28
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	32	32	26	29	20	21	22	16	29	26	20		25
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	42	36	Tube Missing	36	31	30	25	29	32	41	38		34
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	38	33	29	28	Tube Missing	22	25	22	35	Tube Missing	38		30
HS2-000020BNQ	Camley Street	529735, 183737	Tube Missing	50	37	38	31	Tube Missing	25	Tube Missing	27	Tube Missing	Tube Missing		35
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	48	43	39	44	34	30	20	28	43	38	38		37
HS2-000020BNZ	Mansfield Road	528050, 185508	38	37	29	29	29	23	26	25	29	37	34		31
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	52	56	50	45	Tube Missing	48	46	44	57	55	47		50
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	39	32	32	35	33	24	25	Tube Missing	40	44	41		34
HS2-000020BPB	Camden High Street	528966, 183735	69	Tube Missing	56	55	51	56	50	52	72	59	54		57
HS2-000020BPC	Castlehaven Road	528788, 184591	43	37	29	27	27	24	No Data	14	31	33	36		30

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HS2-000020BPD	Prince of Wales Road	528571, 184683	39	33	25	25	23	23	18	18	28	29	26		26
HS2-000020BPE	Haverstock Hill	527710, 184749	44	38	36	34	37	29	No Data	26	35	Tube Missing	35		35
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	43	40	30	33	Tube Missing	31	20	20	33	32	37		32
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	Tube Missing	43	39	38	35	32	43	27	47	Tube Missing	45		39
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	39	40	39	43	36	27	30	28	42	40	41		37
HS2-000020BPX	Netley Street	529177, 182625	44	40	34	38	29	25	34	21	35	36	35		34
HS2-000020BPY	Stanhope Street	529060, 182947	38	32	32	33	26	21	21	23	34	31	33		29
HS2-000020BPZ	Albany Street	528790, 182923	39	35	33	34	29	27	18	24	32	36	22		30
HS2-000020BQ0	Werrington Street	529493, 183113	38	34	28	25	25	19	17	18	30	33	15		25
HS2-000020BQ1	Polygon Road	529574, 183045	Tube Missing	Tube Missing	29	26	26	18	18	19	29	33	35		26
HS2-000020BQ2	Alexandra Place	526320, 183980	37	35	29	26	24	21	No Data	17	Tube Missing	28	31		27
HS2-000020BQ3	Harrington Square	529228, 183172	53	51	44	46	45	36	39	31	52	39	41		43
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	45	41	30	36	30	25	22	21	39	36	39		33
HS2-000020BQ5	Adelaide Road	527713, 184392	44	40	32	31	31	25	Tube Missing	21	33	33	Tube Missing		32
HS2-000020BQ6	Mornington Terrace	528836, 183474	38	33	27	27	25	15	Tube Missing	19	30	31	28		27

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HS2-000020BQ7	Arlington Road	529009, 183479	35	35	29	29	22	20	Tube Missing	18	27	31	30		28
HS2-000020BQ8	Clarkson Row	529024, 183213	37	39	31	31	Tube Missing	20	25	21	33	37	37		31
HS2-000020BQ9	Park Village East	528923, 183121	37	37	31	31	27	22	24	21	28	Tube Missing	34		29
HS2-000020BQA	Eversholt Street	529386, 183132	55	47	42	36	35	Tube Missing	26	32	48	49	48		42
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	32	40	31	31	25	24	23	21	29	31	26		28
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	47	49	38	40	32	26	No Data	22	39	40	32		36
HS2-000020BQD	Drummond Crescent	529648, 182856	47	47	33	35	28	26	No Data	25	37	39	38		35
HS2-000020BQJ	Grafton Way	529380, 182225	47	46	41	38	40	36	43	28	48	49	45		42
HS2-000020BQL	Delancey Street	528768, 183581	46	46	42	48	42	28	34	31	49	43	40		41
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	37	35	29	30	27	23	Tube Missing	18	26	32	36		29
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	42	42	30	28	26	22	18	19	24	33	30		28
HS2-000020BQT	Drummond Street	529385, 182581	40	44	37	38	33	26	26	22	33	39	38		34
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	45	40	36	25	28	23	24	23	34	38	42		32
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	Tube Missing	52	Tube Missing	Tube Missing	58	52	40	47	Tube Missing	Tube Missing	49		50

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HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	55	62	57	61	60	53	No Data	55	66	68	56		59
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	38	36	36	32	30	22	20	21	28	32	36		30