

Air Quality and Dust Monitoring Monthly Report – June 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 May and June 2021 respectively.
- 1.1.2 Figure 1 to Figure 4 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 phase of works commenced within the LBC during December 2017 and is expected to be completed by December 2021. The next concurrent phase of construction works commenced in November 2019 and is expected to be completed by 2025. The current and planned worksites, include:

Skanska Costain Strabag Joint Venture (SCSjv)

- Adelaide Road Vent Shaft –Concreting and utilities works, vegetation clearance and groundworks;
- Vehicle Holding Area - works are now complete;
- Site office and welfare ground works, concrete slab construction and services by Granby Terrace Bridge;
- Euston Scissor Cut – groundworks, piling operations and materials management;
- Euston Throat Retained Cut groundworks, piling operations, utilities diversion works and materials management; and
- Hampstead Road Bridge – mobilisation and site setup.

Costain Skanska Joint Venture (CSjv)

- Compound and Power Signal Box pile cap breakout and demolition works;
- Archaeological dig at St James' Gardens, groundworks and materials management, demobilisation of the site;
- Euston Street Walkden and Wolfson House groundworks and demobilisation; and
- Utilities ground excavation works on Harrington Street, Varndell Street, Stephenson Way, and North Gower Street.

Mace Dragados Joint Venture (MDjv)

ITR:

- Site set up/maintenance and security.

TSS:

- Begin excavation of shaft;
- Build Euston St access ramp;
- Excavation of caisson ring completed;
- Installation of ventilation fans and noise attenuating barriers;
- Delivery and initial placement of 4x concrete silos's; and
- Mechanical and electrical set up site wide.

Tower Demolition:

- Terminate temporary works and soft stripping; and
- Towers ground floor and basement demolition.

Maria Site (NTH)/ MariaFidelis:

- Concrete pour for sections 1 and 2;
- Finish cropping piles;
- Finish upper wall reinforcement;
- Trial holes for services' location identification in Maria Fidelis playground; and
- Hording refurbishment beside Margaret Centre and Hampstead Road.

Ground Investigation:

- Drilled one borehole for Ground investigation for the Doric Way campaign; and
- Traffic management set up and started drilling borehole for the Main Campaign/Euston Rd.

- 1.1.5 Twenty-three (23) dust monitors are installed around worksites, where demolition, groundworks and materials management are underway. These sites returned a medium or 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 4. 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.

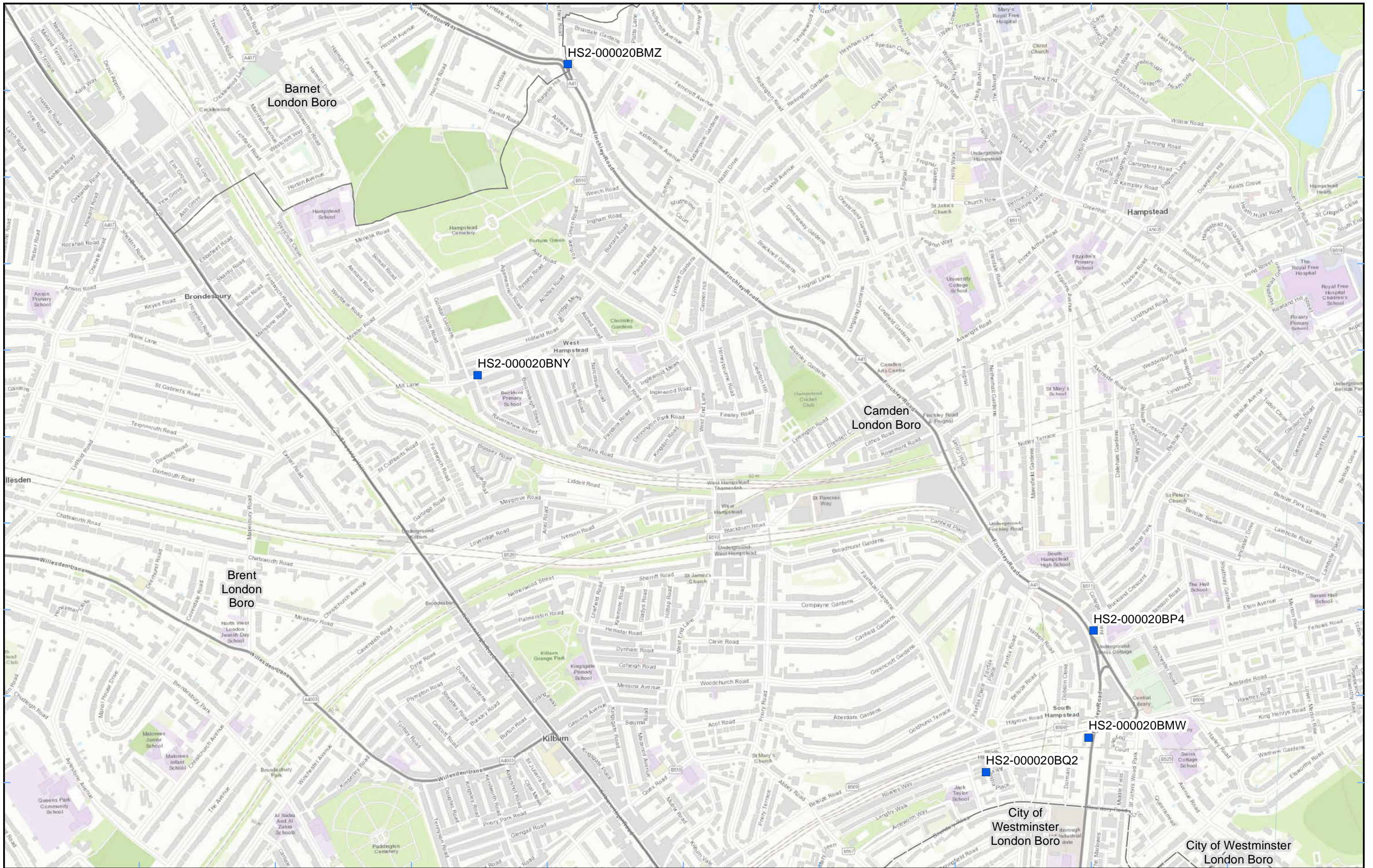
- 1.1.8 There were three (3) dust trigger alerts recorded during the monitoring period (June 2021). Exceedances are presented in Appendix B, Table 3. All other results were in line with the expected ranges.
- 1.1.9 Data capture for monitors AQ013, and AQ021 was below 90% for the month of June 2021 due to a fault with the monitors over the course of the month. Data capture for AQ011 and AQ014 was below 90% due to a loss of power.
- 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 4, together with the 2021 running mean.
- 1.1.13 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during June 2021

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
S2-21-42175-C SRM:072902384	NTH-EN	Complaint related to higher noise and dust levels experienced at Rydal Water property.	Upon complaint investigation MDJV confirmed that the measured noise levels opposite the former National Temperance Hospital site that day were typical of recent measurements and did not exceed the consented construction trigger level at this location. The noise levels between 12:00 and 16:00 on that day were slightly higher than normal, but it appears this was mainly to do with emergency services sirens on Hampstead Road rather than site noise. With regards to dust, levels measured that day were very low and well below the trigger level, suggesting there were no significant dust emissions from the site. Based on this, MDJV concluded that site activities did not lead to high noise and dust levels in the vicinity of the property.

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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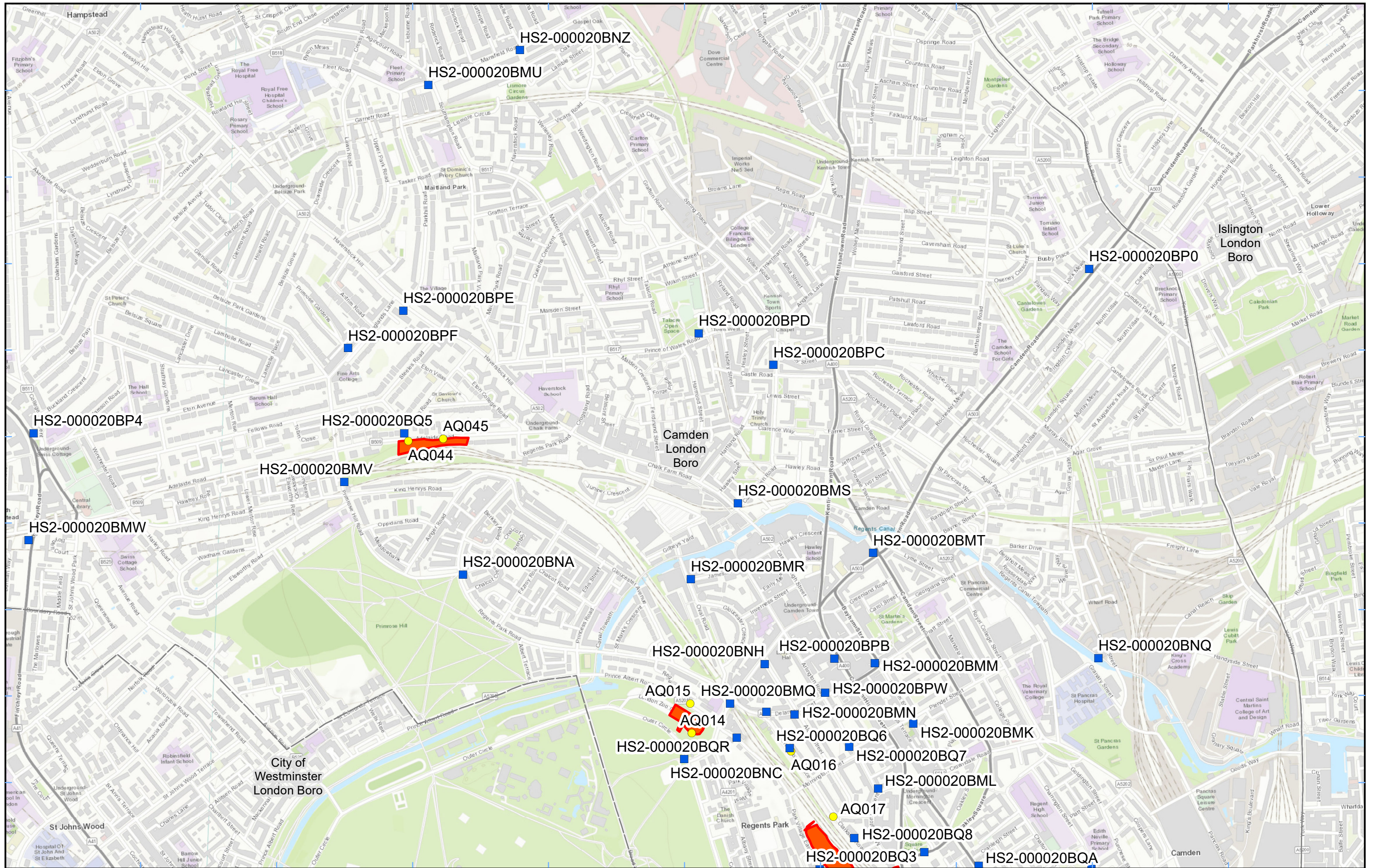
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Legend

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

Map Number

Map Name

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

London Borough of Camden

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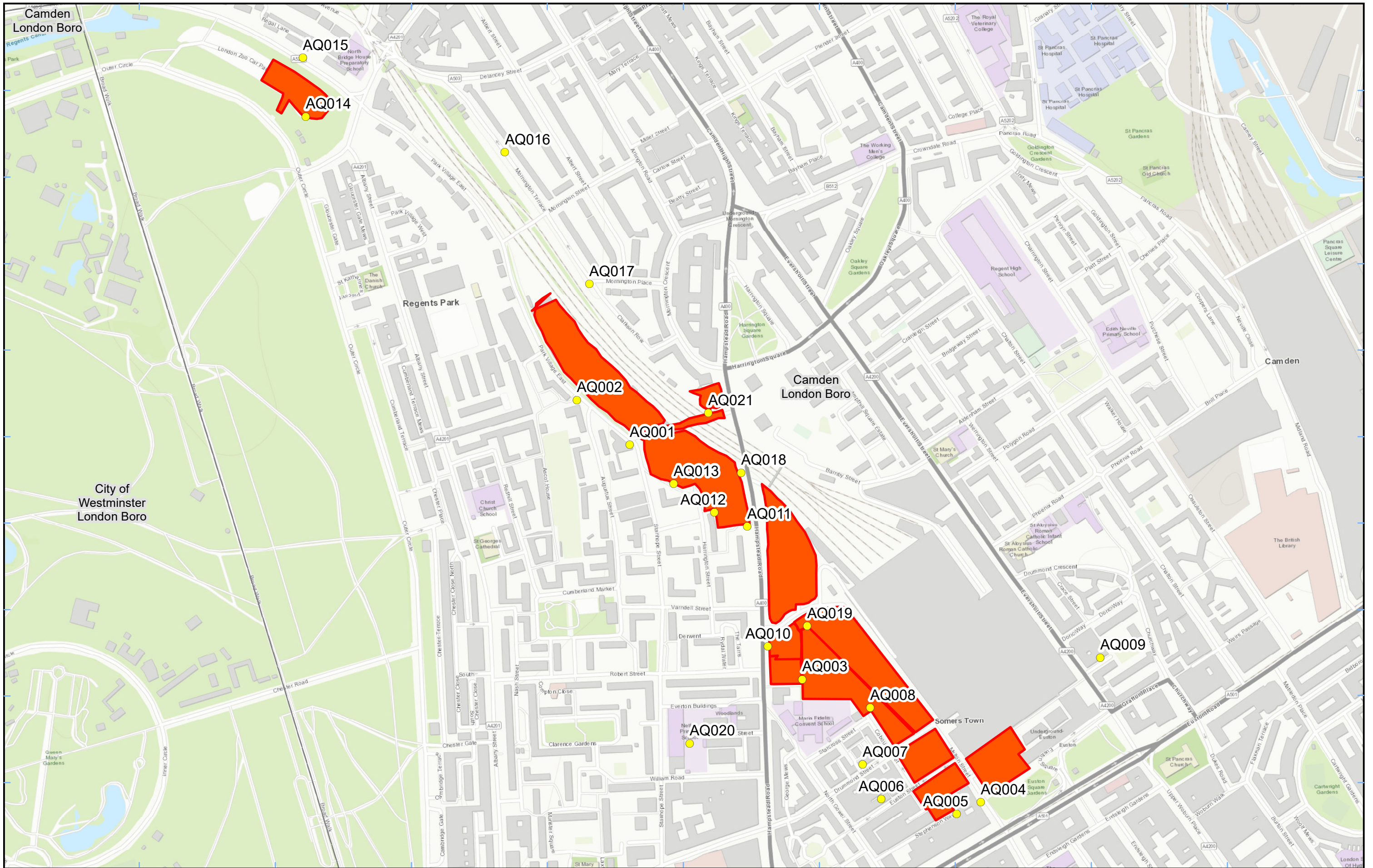
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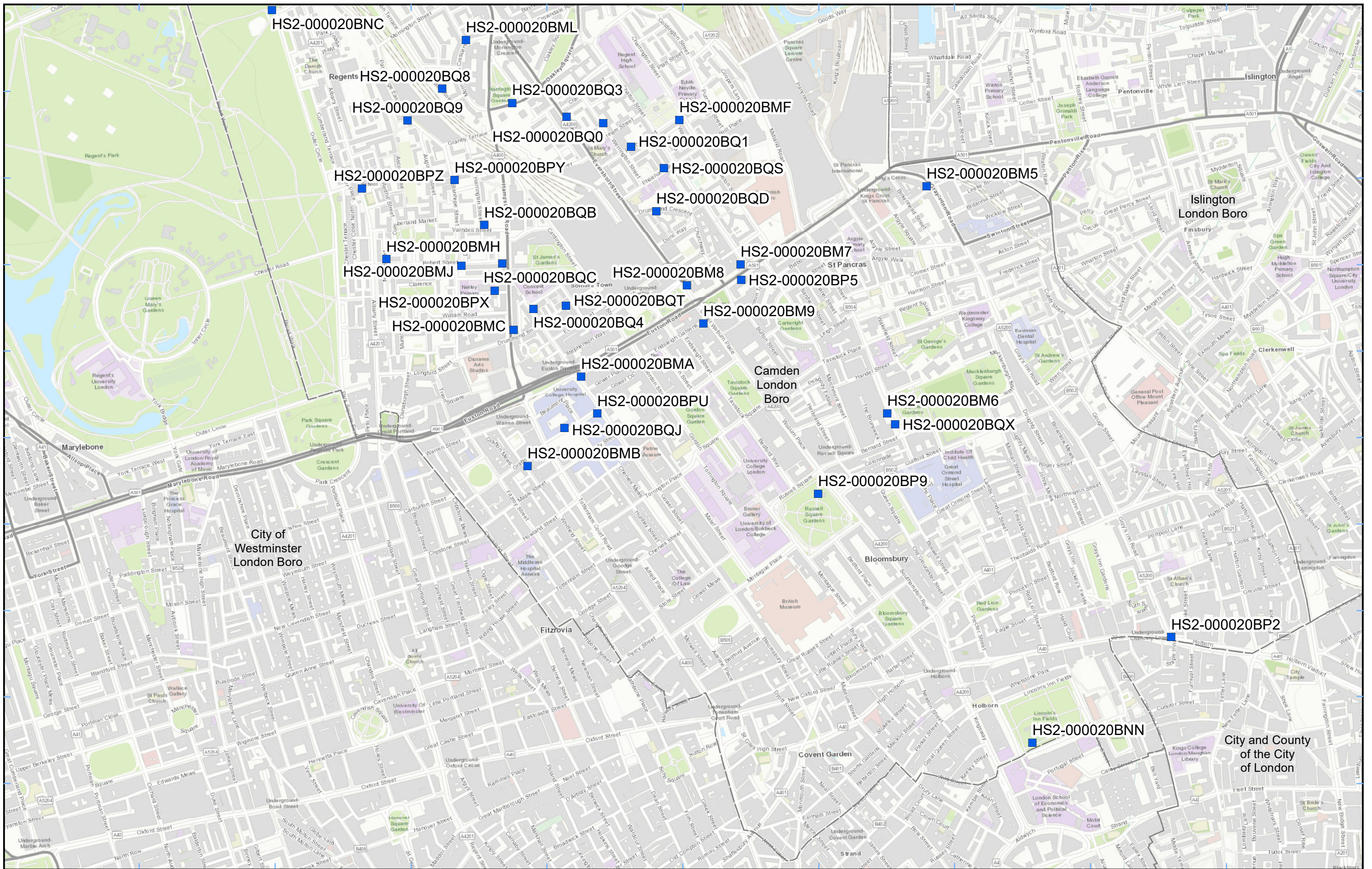
Legend
 ● Dust Monitor □ District Borough Unitary Boundaries
 ■ Worksite

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

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 2: Dust monitoring locations and June 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	529022, 183040	Junction of Park Village East, Stanhope Street and Granby Terrace	M	Yes	N	10.3	1.8	43.0	0	93.0
AQ002	528945, 183105	Park Village East	M	Yes	N	9.0	1.8	41.7	0	93.2
AQ003	529273, 182698	St James' Gardens	M	Yes	N/A	6.0	1.3	22.5	0	100.0
AQ004	529533, 182519	Melton Street	H	Yes	N/A	10.4	0.8	77.6	0	100.0
AQ005	529498, 182502	Stephenson Way	H	Yes	N/A	13.4	2.1	107.8	0	100.0
AQ006	529388, 182524	Euston Street	H	Yes	N/A	10.1	1.9	58.9	0	99.3
AQ007	529361, 182574	Drummond Street	H	Yes	N/A	9.1	1.5	63.9	0	99.3
AQ008	529372, 182657	Cobourg Street	H	Yes	N/A	9.2	0.7	52.3	0	100.0
AQ009	529707, 182730	Eversholt Street	H	Yes	N/A	9.4	2.0	116.2	0	99.3
AQ010	529223, 182746	Hampstead Road South	M	Yes	N/A	8.2	1.1	50.0	0	99.2
AQ011	529193, 182921	Hampstead Road	M	No	N	10.4	1.4	74.5	0	76.1

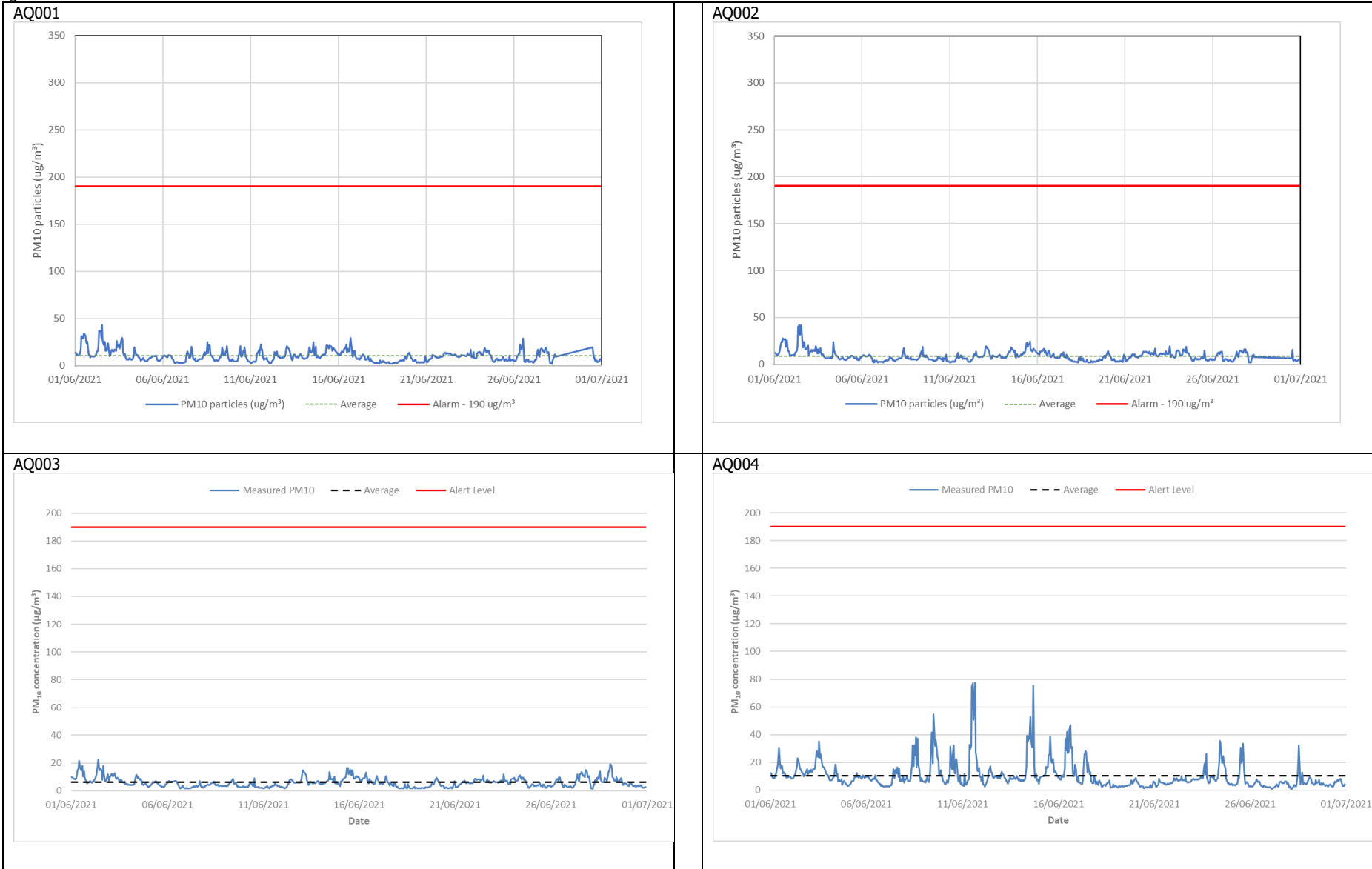
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ012	529145, 182941	Rear of Coniston House	M	Yes	N	9.8	1.7	217.7	1	92.2
AQ013	529086, 182983	Regents Park Estate	M	Yes	N	23.2	3.1	315.8	1	49.8
AQ014	528550, 183518	Vehicle Holding Area	L	Yes	N	4.6	1.1	21.8	0	81.4
AQ015	528546, 183604	Prince Albert Road	L	Yes	N	0.9	0.0	3.3	0	100.0
AQ016	528840, 183466	Mornington Terrace North	M	Yes	N	11.9	2.6	157.6	0	93.0
AQ017	528963, 183274	Mornington Terrace South	M	Yes	N	8.9	1.2	23.3	0	93.0
AQ018	529184, 182999	Hampstead Road North	M	Yes	N	8.2	1.6	24.1	0	92.9
AQ019	529280, 182776	Park Village East (North)	M	Yes	N	2.7	0.4	66.6	0	93.0
AQ020	529109, 182605	Netley School	n/a	Yes	N/A	10.0	1.7	35.7	0	99.3
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge.	M	Yes	N	8.8	2.2	39.9	0	41.6
AQ044	527725, 184369	Adelaide Road Vent Shaft (west)	M	Yes	N	6.8	1.0	25.5	0	94.4
AQ045	527826, 184375	Adelaide Road Vent Shaft (east)	M	Yes	N	15.6	2.0	267.5	1	94.6

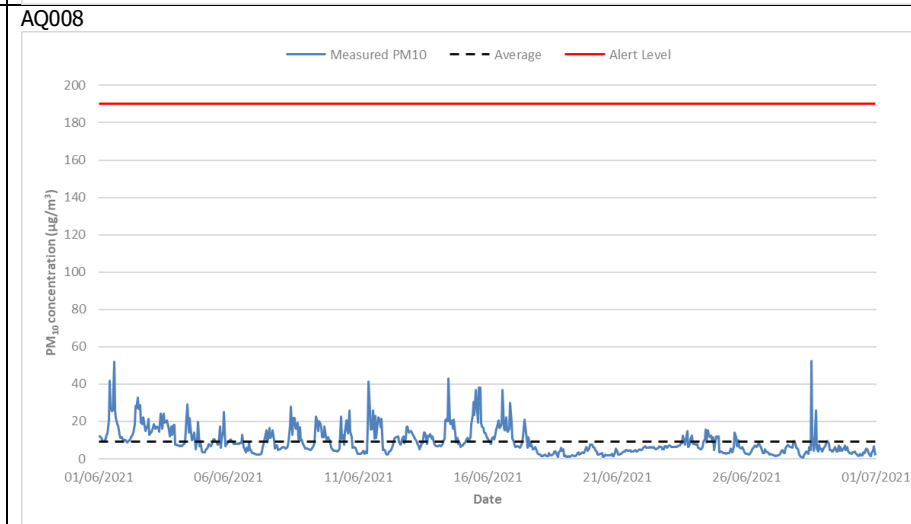
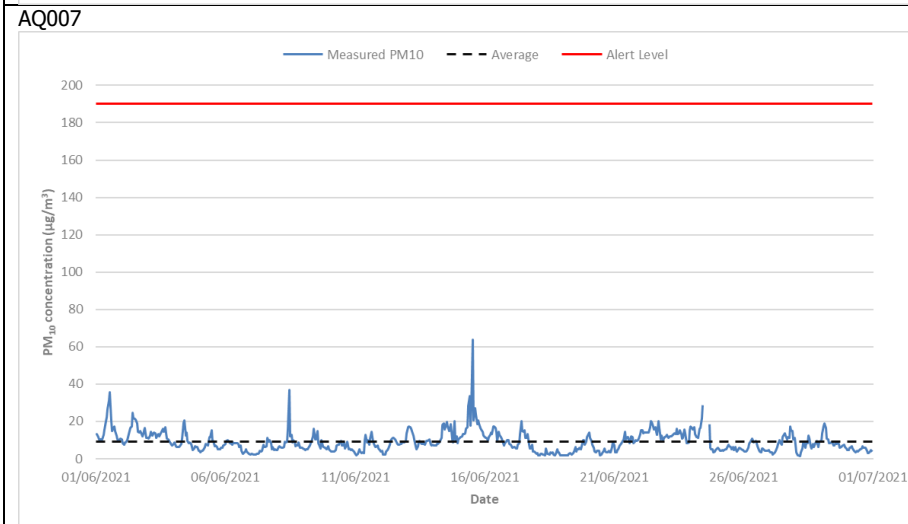
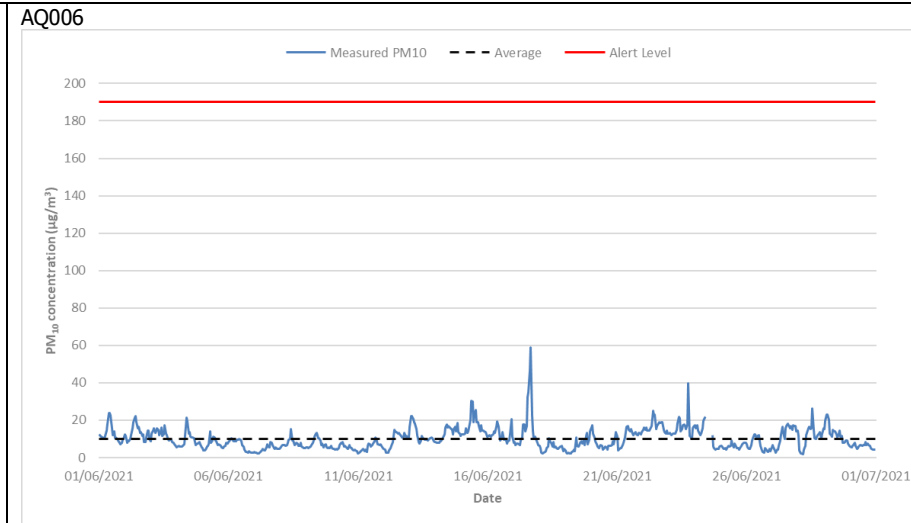
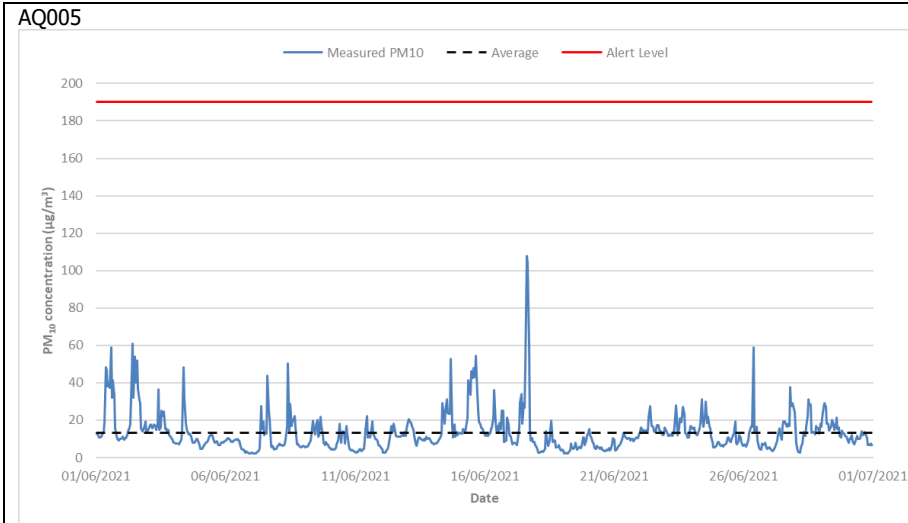
Table 3: Summary of exceedances of trigger level in June 2021

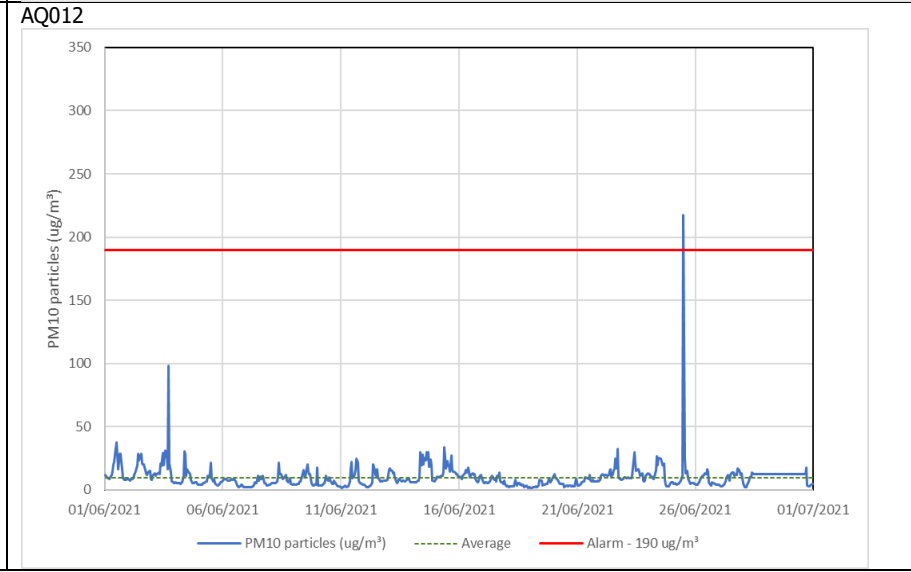
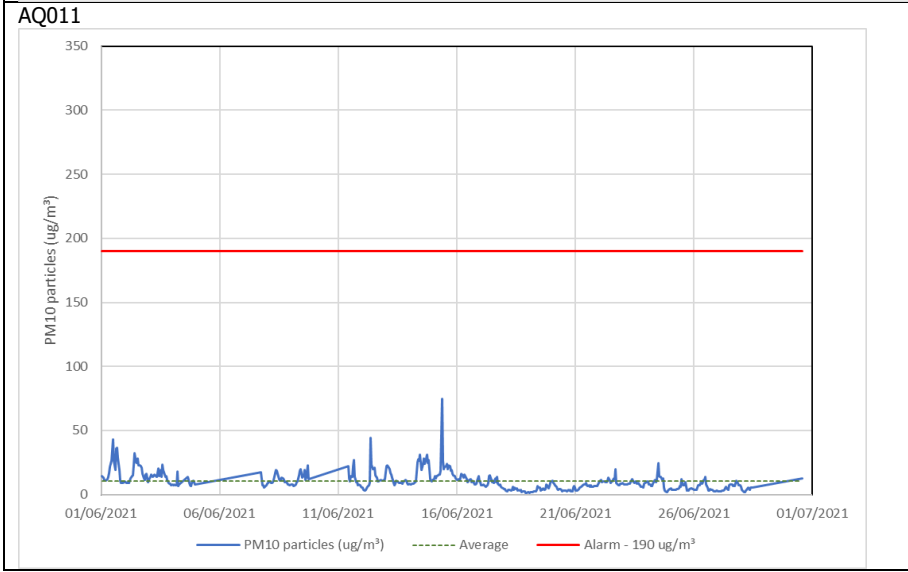
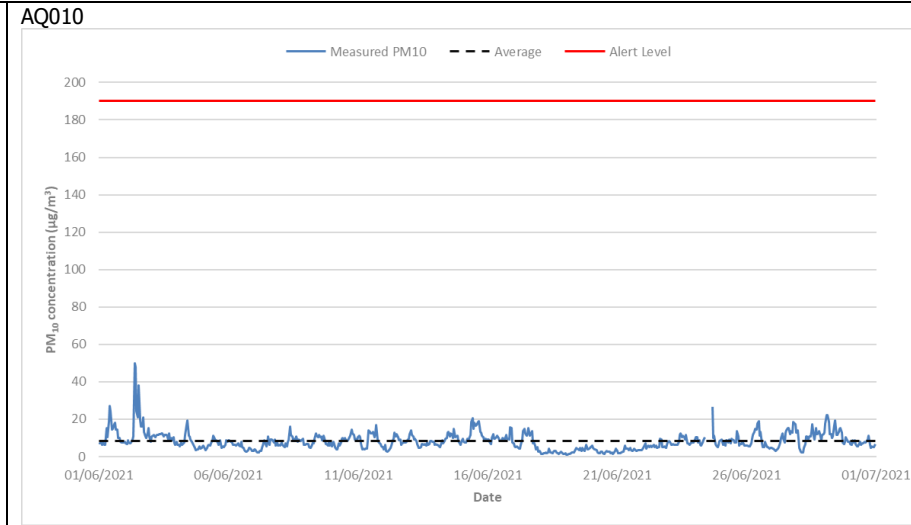
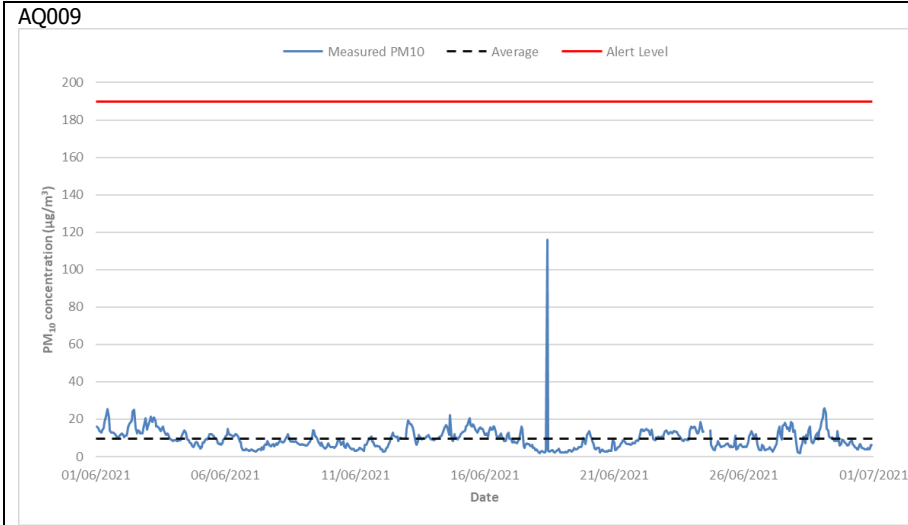
Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
<p>AQ013 Euston Throat Retained Cut</p>	<p>02/06/2021 08:01 - 09:00; 315.8 µg/m³</p>	<p>At the time of the trigger alert from dust monitor (AQ013), which is located on the southwestern boundary of the Euston Throat Retained Cut (ETRC) site, there were no dusty activities occurring in the area near to the monitor.</p> <p>Wiring of new nearby generators was being carried out and continued piling operations were occurring at the time, as well as cabin installation, as has been the case for numerous weeks now. Both being a good distance, >50m, away from the monitor.</p> <p>No dust emissions were observed during these activities and dust suppression is available and used in these areas as it is deployed across all the Euston sites.</p> <p>The area in front of the monitor remains undisturbed, being used for storage at present.</p>	<p>Monitoring data from AQ013 has been erratic recently due to a number of power losses but not on this occasion and monitored levels remained persistently high for the remainder of the day.</p> <p>AQ012 located nearer the southern boundary of the south (but a similar distance to piling operations) and AQ001 on Park Village East, further north nearer to the cabin installation works, both showed no similar elevated dust levels.</p> <p>More than 10 dust canons have been deployed across the site and a team dedicated to managing them since the beginning of May in readiness for warmer and dryer spring/summer weather. In addition, the on-site bowser and road sweeper continue to maintain circuits of internal haul routes and external roads.</p> <p>Particular attention will be given to the area between the piling operations, generators and site walking route on the SW boundary as part of the daily dust management strategy as a precaution.</p> <p>Monitor AQ013 is being serviced and calibrated (annual calibration) in June 2021.</p>
<p>AQ045 Adelaide Road Vent Shaft</p>	<p>02/06/2021 15:01 -16:00; 297.3 µg/m³</p>	<p>At the time of each trigger alert from dust monitor (AQ045), which is located on the eastern boundary of the Adelaide Road Vent Shaft site, works were limited, apart from machinery movements in the immediate vicinity of the monitor on the new internal haul road as materials/ equipment are being moved around the east area of the site. Dust suppression is applied regularly each day especially with the prolonged dry spell and was observed to be successful despite the triggers i.e. no observable elevated dust levels.</p>	<p>There continues to be very limited width of workable space on the Adelaide Road (former path and some of the road) before the railway embankment which quickly slopes away.</p> <p>The dust monitor is currently on a stand within the works area and the proximity of most site operations (even unavoidable machinery and materials movements) to the monitor means it remains within metres of most site activities in the area. (Please see photos attached)</p> <p>The new concrete haul road is cleaned and damped down regularly throughout each day as debris is left following machines movements across it. The site team continue to deploy dust suppression as required at the start of the working shift and this is reviewed</p>

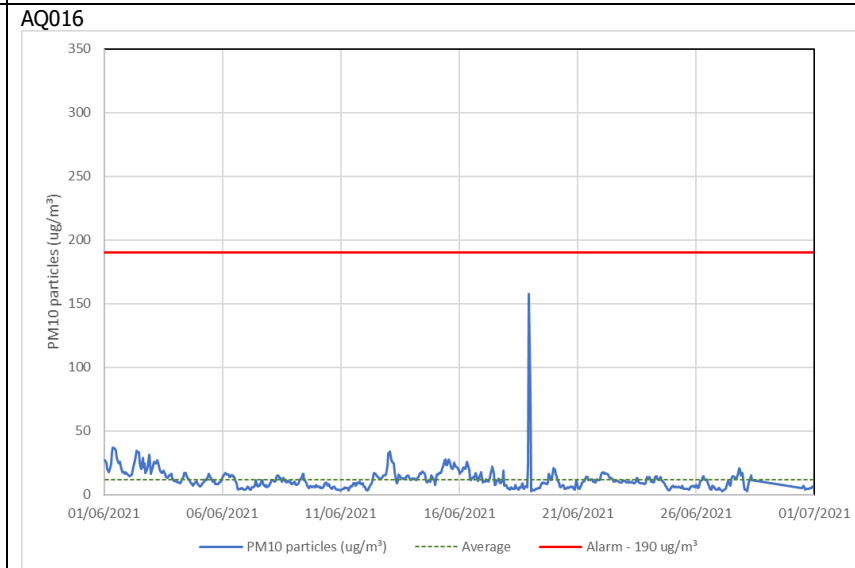
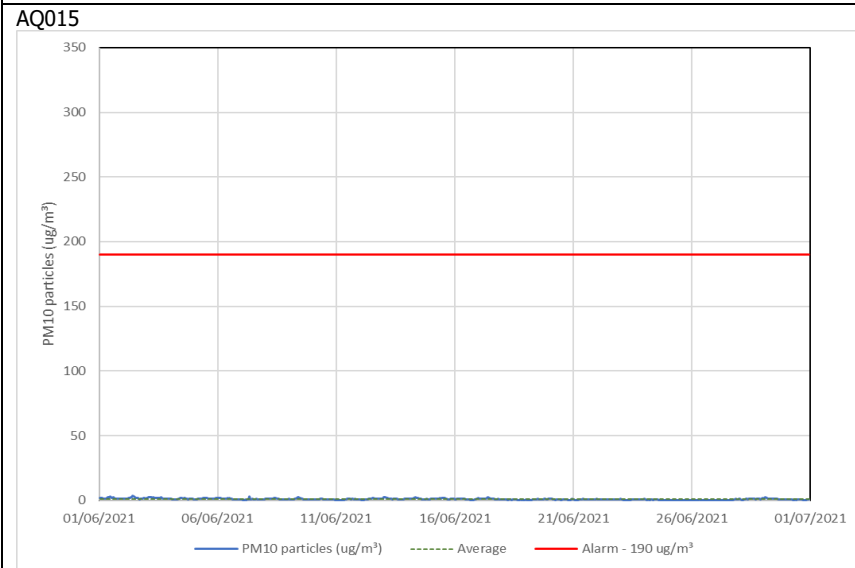
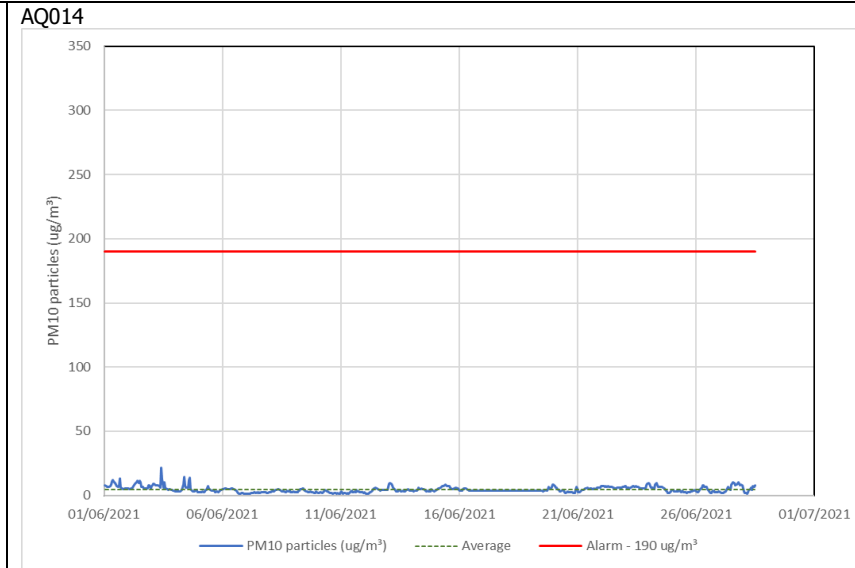
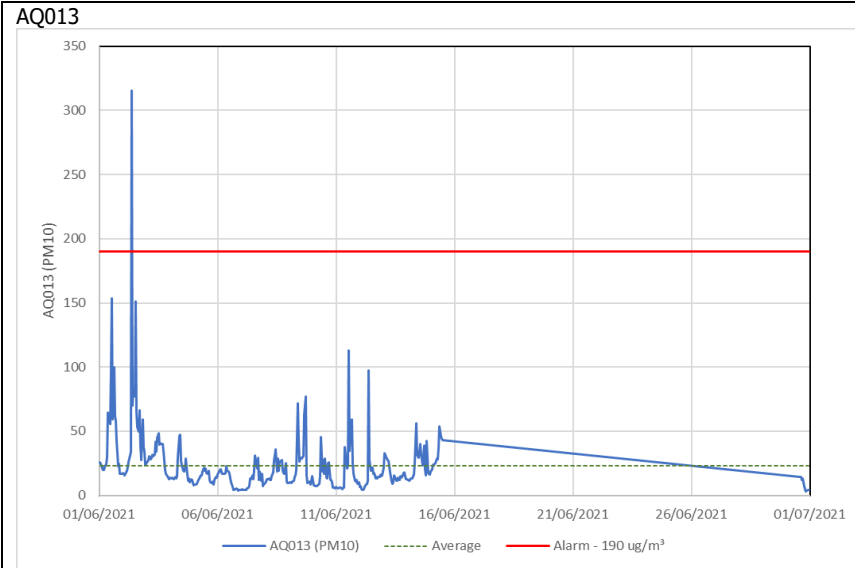
Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
			<p>throughout the day and by activity. Additional jet washes are on site and additional road sweeper circuits have been implemented both on and off site. Once the site layout is finalised in the coming months a longer-term monitor location will be found which will allow monitoring of more representative wider site activities rather than ones immediately next to the monitor.</p>
<p>AQ012 Euston Throat Retained Cut</p>	<p>25/06/2021 11:01 – 12:00; 217.7 µg/m³</p>	<p>At the time of the trigger alert from dust monitor (AQ012), which is located on the southern boundary of the Euston Throat Retained Cut (ETRC) site, scraping and cleaning of the piling platform was being carried out. It is considered that this was the cause of the trigger. Limited dust emissions were observed in the immediate vicinity of the activity but not beyond and dust suppression was available and used in the area.</p>	<p>On receipt of the trigger the works were stopped, and the area thoroughly damped down before continuing. Subsequent monitored readings dropped and remained low thereafter. The same future 'housekeeping' activities will be carried out with more dust suppression and alternative methods of cleaning will also be considered.</p>

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

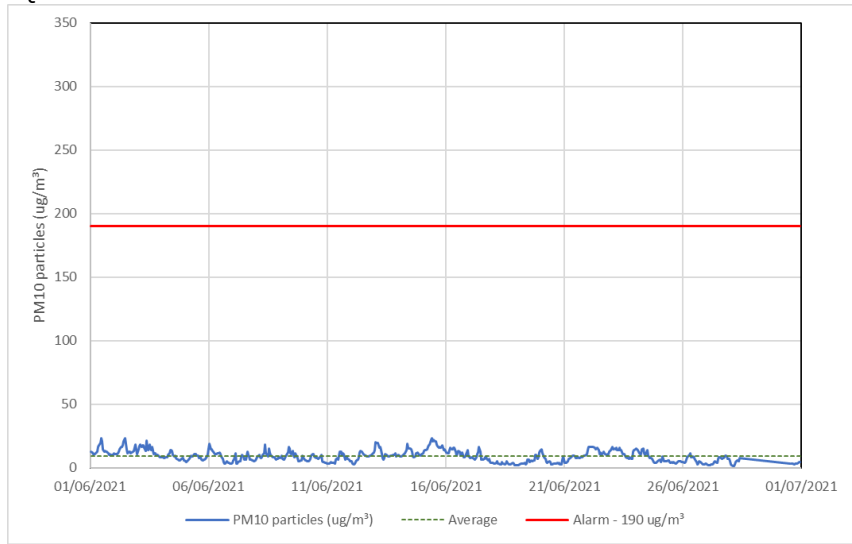




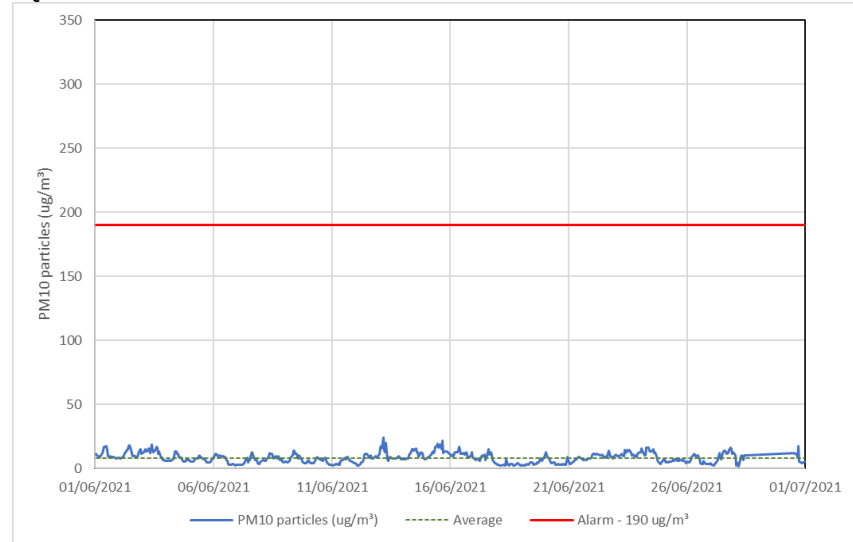




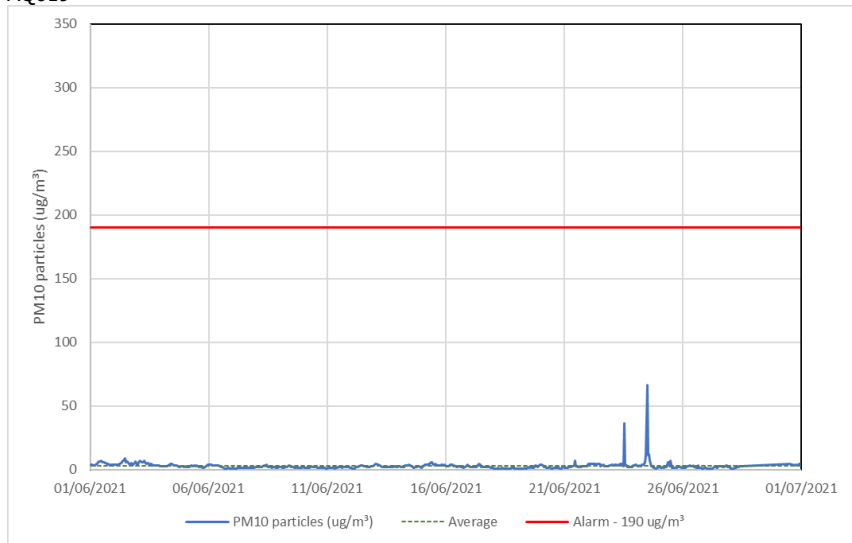
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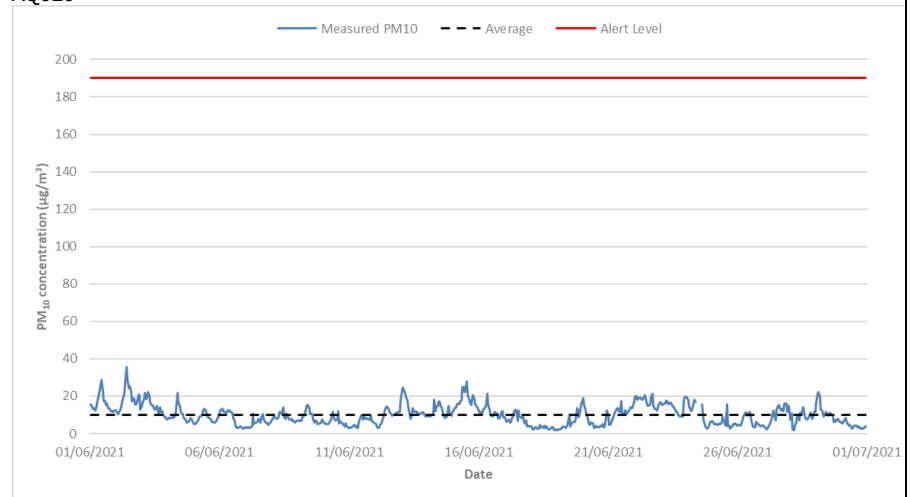
AQ018



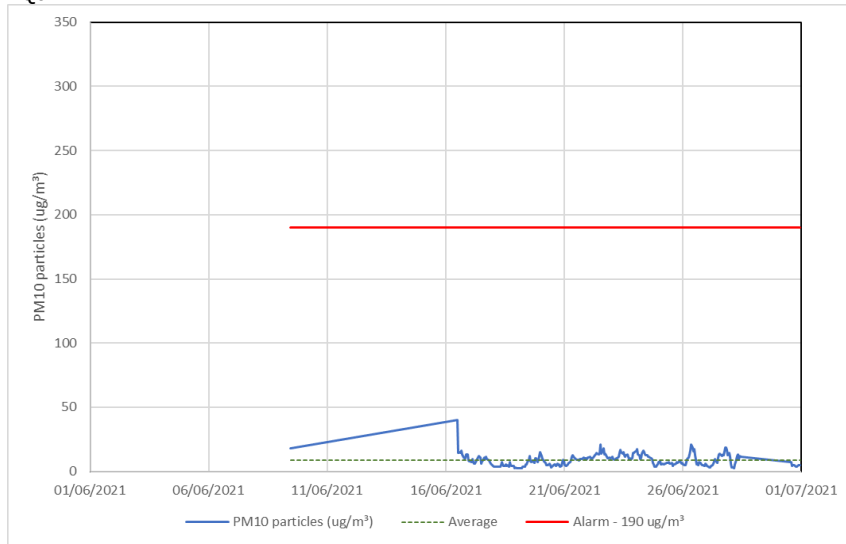
AQ019



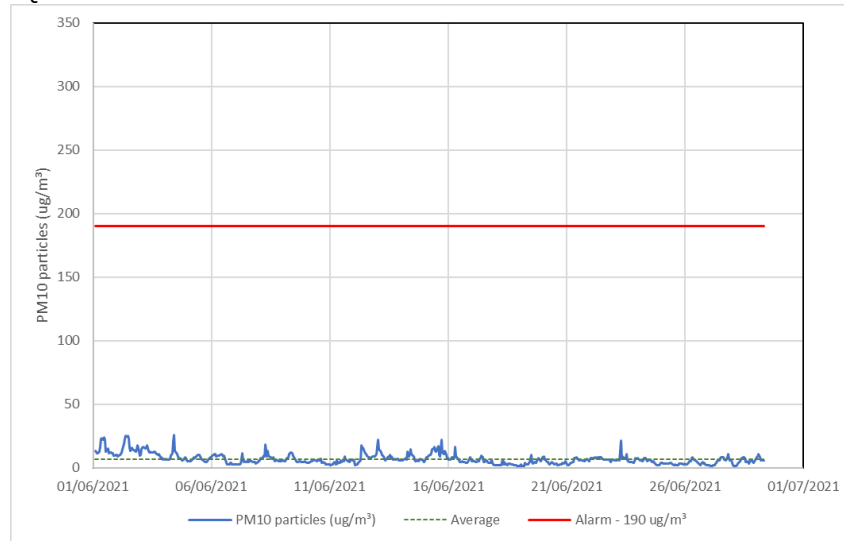
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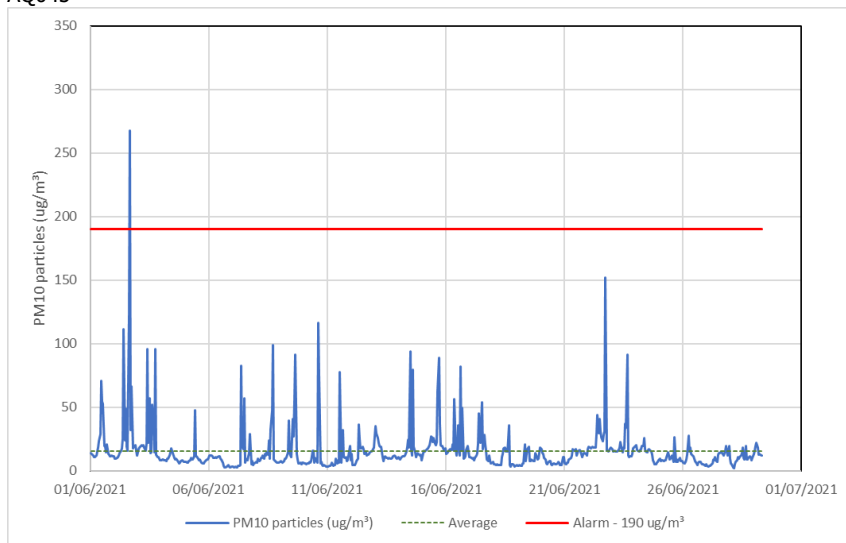
AQ021



AQ044



AQ045



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								42
HS2-000020BM7	Chalton Street	529894, 182702	53	57	48	Tube Missing	Tube Missing								53
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	58	60	48	45	43								51
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	52	48	43	46	44								47
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	53	47	44	42	39								45
HS2-000020BMB	Whitfield Street	529273, 182114	44	45	37	39	30								39
HS2-000020BMC	Hampstead Road	529232, 182511	68	73	65	67	66								68
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	38	37	28	34	25								32
HS2-000020BMH	Nash Street	528861, 182717	39	38	30	30	30								33
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	37	39	33	36	32								35
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	50	51	44	47	43								47

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	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ₁
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	42	38	31	32	26								34
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	57	50	49	44	46								49
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	Tube Missing	38	38	34	32								36
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	46	47	41	47	42								44
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	39	33	36	32	Tube Missing								35
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	50	43	40	42	42								43
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	50	49	49	50	37								47
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	40	38	36	37	36								37
HS2-000020BMV	Primrose Hill Road	527538, 184250	41	37	30	31	30								34
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	50	51	45	53	53								50
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	Tube Missing	Tube Missing	50	64	62								59
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	40	33	26	27	26								31
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	32	32	26	29	20								27
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	42	36	Tube Missing	36	31								37
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	38	33	29	28	Tube Missing								32

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ₁
HS2-000020BNQ	Camley Street	529735, 183737	Tube Missing	50	37	38	31								39
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	48	43	39	44	34								42
HS2-000020BNZ	Mansfield Road	528050, 185508	38	37	29	29	29								33
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	52	56	50	45	Tube Missing								51
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	39	32	32	35	33								34
HS2-000020BPB	Camden High Street	528966, 183735	69	Tube Missing	56	55	51								58
HS2-000020BPC	Castlehaven Road	528788, 184591	43	37	29	27	27								32
HS2-000020BPD	Prince of Wales Road	528571, 184683	39	33	25	25	23								29
HS2-000020BPE	Haverstock Hill	527710, 184749	44	38	36	34	37								38
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	43	40	30	33	Tube Missing								37
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	Tube Missing	43	39	38	35								39
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	39	40	39	43	36								39
HS2-000020BPX	Netley Street	529177, 182625	44	40	34	38	29								37
HS2-000020BPY	Stanhope Street	529060, 182947	38	32	32	33	26								32
HS2-000020BPZ	Albany Street	528790, 182923	39	35	33	34	29								34
HS2-000020BQ0	Werrington Street	529493, 183113	38	34	28	25	25								30

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ₁
HS2-000020BQ1	Polygon Road	529574, 183045	Tube Missing	Tube Missing	29	26	26								27
HS2-000020BQ2	Alexandra Place	526320, 183980	37	35	29	26	24								30
HS2-000020BQ3	Harrington Square	529228, 183172	53	51	44	46	45								48
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	45	41	30	36	30								36
HS2-000020BQ5	Adelaide Road	527713, 184392	44	40	32	31	31								36
HS2-000020BQ6	Mornington Terrace	528836, 183474	38	33	27	27	25								30
HS2-000020BQ7	Arlington Road	529009, 183479	35	35	29	29	22								30
HS2-000020BQ8	Clarkson Row	529024, 183213	37	39	31	31	Tube Missing								34
HS2-000020BQ9	Park Village East	528923, 183121	37	37	31	31	27								32
HS2-000020BQA	Eversholt Street	529386, 183132	55	47	42	36	35								43
HS2-000020BQB	Junction of Harrington Street and Vardell Street	529147, 182816	32	40	31	31	25								32
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	47	49	38	40	32								41
HS2-000020BQD	Drummond Crescent	529648, 182856	47	47	33	35	28								38
HS2-000020BQJ	Grafton Way	529380, 182225	47	46	41	38	40								42
HS2-000020BQL	Delancey Street	528768, 183581	46	46	42	48	42								45
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	37	35	29	30	27								32

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ₁
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	42	42	30	28	26								33
HS2-000020BQT	Drummond Street	529385, 182581	40	44	37	38	33								38
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	45	40	36	25	28								35
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								55
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	55	62	57	61	60								59
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	38	36	36	32	30								34