

## **Air Quality and Dust Monitoring Monthly Report – November 2019**

**London Borough of Camden**



**SKANSKA**



## Department for Transport

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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 October 2019 and November 2019 respectively.
- 1.1.2 Figure 1 to Figure 3 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](http://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 are expected to be completed by December 2019. The next phase of construction works commenced in November 2019 and is expected to be completed by 2025. The current, completed and planned worksites, include:

## Current & Planned -

- Site office and welfare on the adjacent former Addison Lee compound on Granby Terrace, worksite ref. S001-WS01.
- Archaeological dig at St James' Gardens and deconstruction of an enclosure over the entire works site; worksite ref. S003-WS01.
- Demolition and groundworks at:
  - The IBIS Hotel, 3 Cardington Street, worksite ref. S003-WS05;
  - Thistle Hotel, Cardington Street, worksite ref. S003-WS04;
  - A number of sites in Euston Street, worksite ref. S003-WS07;
  - Regents Park Estate worksite ref. S001-WS07;
  - Walkden House, 67-75 & 77-79 Euston Street, worksite ref. S003-WS03; and
  - One Euston Square, 40 Melton Street and Grant Thornton House, 22 Melton Street, worksite ref. S003-WS09.
- National Temperance Hospital, Site Office and Welfare 110-122 Hampstead Road and community garden, worksite ref. S003-WS06.
- Thames Water Compound, worksite ref. S001-WS05.
- Vehicle Holding Area, worksite ref. S001-WS04 (yet to be established).
- Euston Approaches mobilisation and site set up and crushing and storage of spoil (on the former DB Cargo site), worksite ref. S001-WS01.

Complete -

- Demolition of former accommodation block and train maintenance shed, at the DB Cargo shed, worksite ref. S001-WS01.
- Demolition at:
  - National Temperance Hospital, Insull Wing, worksite ref. S003-WS02;
  - 1-3 Cobourg Street, worksite ref. S003-WS05; and
  - 132 – 140 Hampstead Road and Petrol Station, worksite ref. S001-WS02.
- Taxi rank in Euston Square Gardens, worksite ref. S003-WS08.

- 1.1.5 Twenty (20) dust monitors are installed around worksites, where demolition and pre-demolition works 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 of 190  $\mu\text{g}/\text{m}^3$ , 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 four (4) dust trigger alerts recorded during the monitoring period (November 2019). Exceedances are presented in Appendix B, Table 3. All other results were in line with expected ranges.
- 1.1.9 Data capture for AQ006 was below 90% for the month of November 2019. This was because of a fault with the instrument. Due to utility works in the area immediately around the monitoring location it was not possible to repair the monitor until the 20/11/2019.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide ( $\text{NO}_2$ ) was undertaken at sixty-five (65) locations in October 2019, 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  $\text{NO}_2$  monitoring locations and results are presented in Appendix C, Table 4, together with the 2019 running mean.

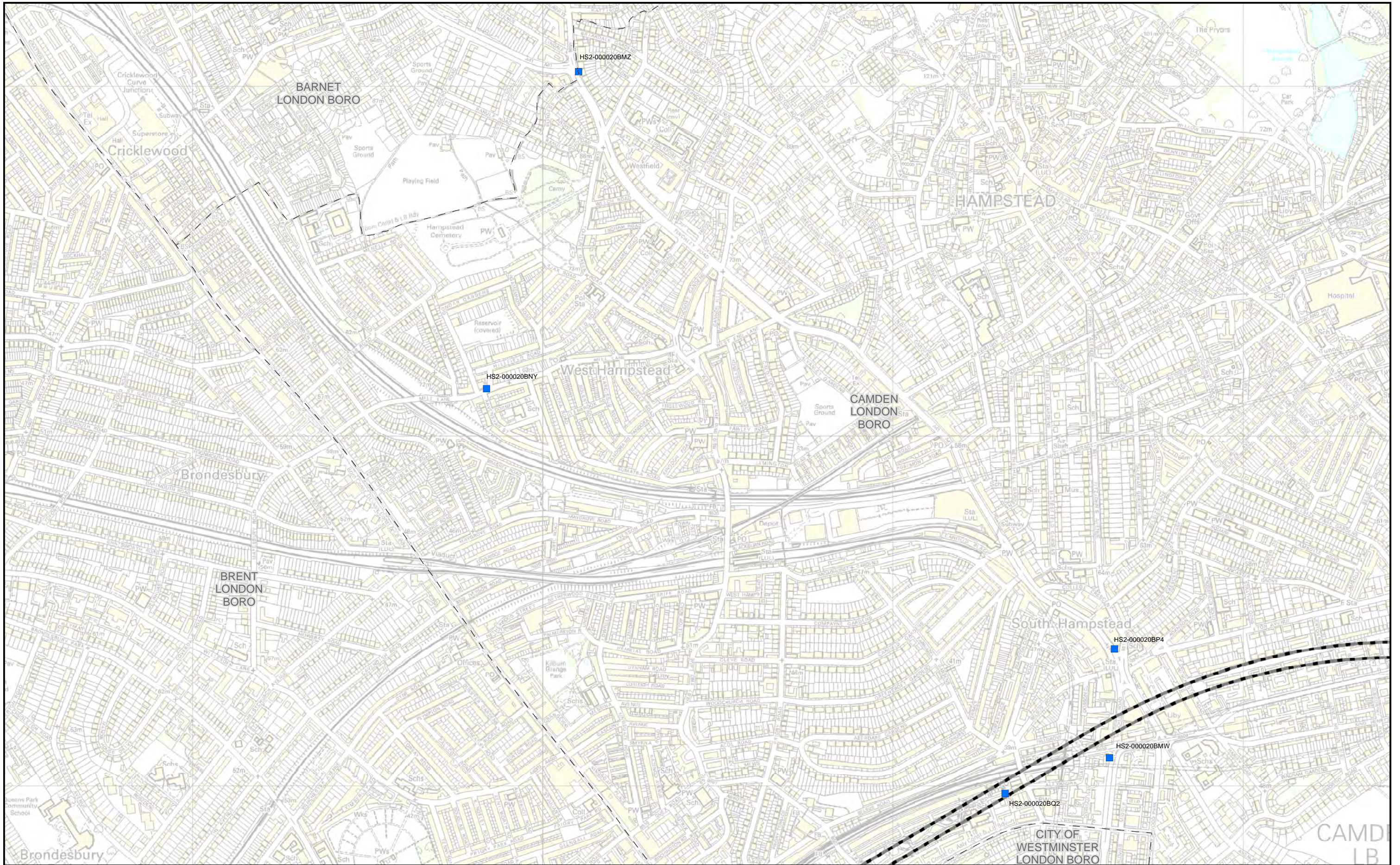
1.1.13 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during November 2019 in LBC

<b>Complaint Reference No.</b>	<b>Worksite Reference</b>	<b>Description of complaint</b>	<b>Results of investigation</b>
HS2-19-11309-C	S001-WS07	A complaint was received in relation to dust generated from the demolition activities.	A response to the complainant has been provided, detailing the measures and methods implemented by the project to minimise potential impacts from generated dust.
HS2-19-11970-C	S001-WS07	A complaint was received in relation to dust, water and mud generated from the demolition activities.	A response email detailing the measures that the project is implementing to minimise the impacts from dust generated during demolition activities. The response detailed the currently used combination of water cannons, and water sprays on the long reach and demolition curtain to control the dust emissions from the demolition.
HS2-19-12217-C	S001-WS01&WS07	A complaint was received in relation to dust generated from the demolition activities.	A response to the complainant has been provided, detailing the measures and methods implemented by the project to minimise potential impacts from generated dust.

# Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 3: Worksites and monitoring locations within the LBC



**Legend**





-  Route in tunnel
-  Route on surface
-  Diffusion tube monitoring location

Figure Number


Figure Name

**Worksites and Monitoring locations in LBC**

London Borough of Camden

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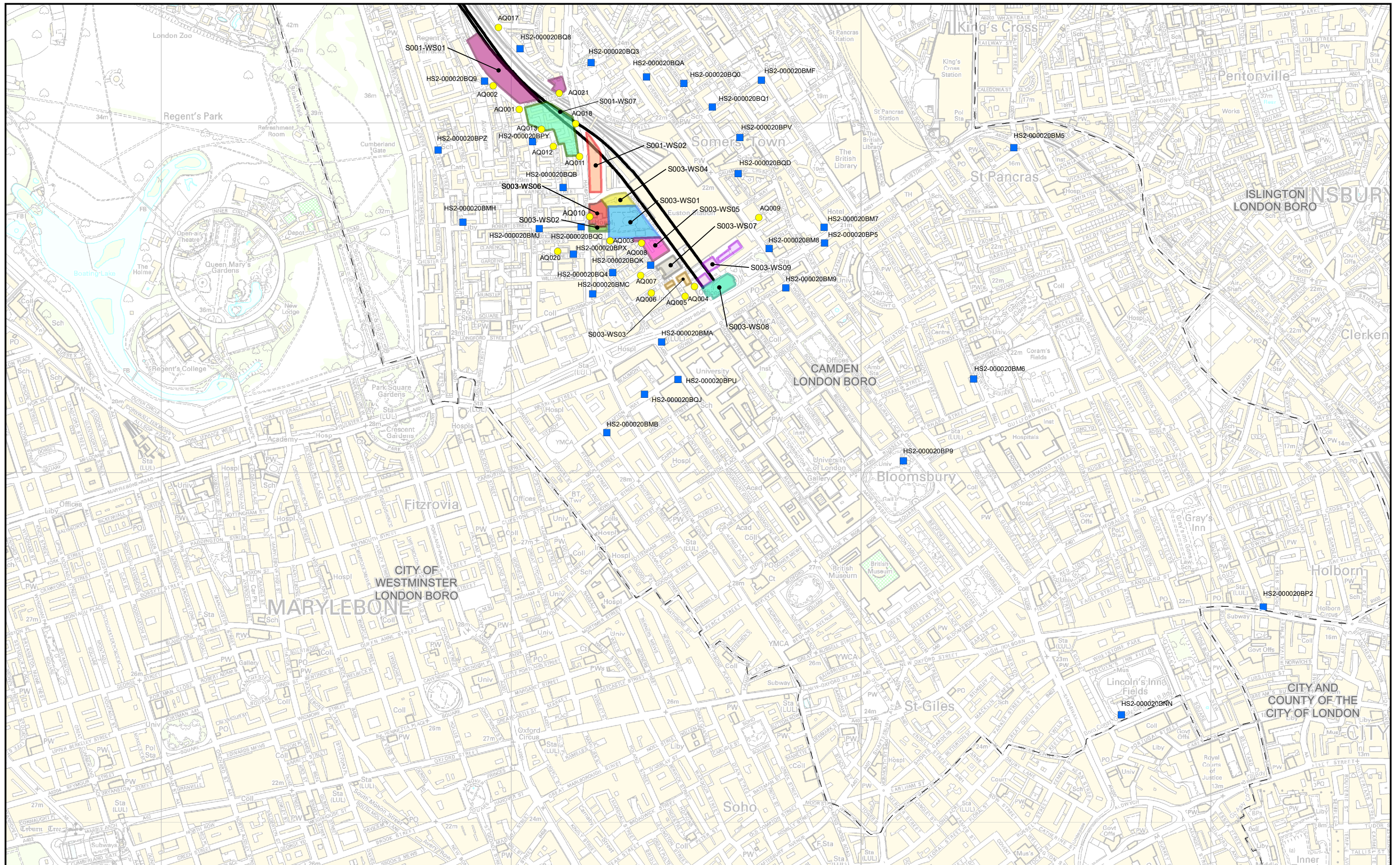


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Map Number: 1EW02-CSJ-EV-REP-S000-000017\_appAFig1.pdf **Date: 13/07/18**







**Legend**

- Route in tunnel
- Route on surface
- Diffusion tube monitoring location
- Dust monitoring location
- DB Cargo Shed and Compound worksite
- St. James' Gardens worksite
- National Temperance Hospital worksite
- Ibis Hotel, 3 Cardington Street & 1-3 Cobourg Street
- National Temperance Hospital, Insull Wing
- Walkden House, 65-75 & 77-79 Euston Street
- Thistle Hotel, Cardington Street
- Euston Street, Melton Street, Drummond Street block
- One Euston Square, 40 Melton Street and Gran Thorton House, 22 Melton Street
- 132 and 140 Hampstead Road and Petrol Station
- Regents Park Estate

**Figure Number**

**Figure Name**  
**Worksites and Monitoring locations in LBC**  
 (sheet 3)

London Borough of Camden

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Scale at A3: 10,000

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Map Number: 1EW02-CSJ-EV-REP-S000-000017\_appAFig1.pdf Date: 11/07/19

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## Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and November 2019 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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
AQ001	529022, 183040	Junction of Park Village East, Stanhope Street and Granby Terrace	H	Yes	N	12.3	0.7	123.2	0	100.0
AQ002	528947, 183107	Park Village East	H	Yes	N	9.8	0.7	55.5	0	100.0
AQ003	529282, 182663	St James Gardens	M	Yes	N	12.0	1.0	44.1	0	100.0
AQ004	529523, 182533	Melton Street	H	Yes	N	12.5	0.9	163.5	0	100.0
AQ005	529496, 182505	Stephenson Way	H	Yes	N	12.0	1.0	47.6	0	100.0
AQ006	529399, 182514	Euston Street	H	Yes	N	13.5	2.7	43.5	0	45.7
AQ007	529369, 182564	Drummond Street	H	Yes	N	10.7	0.8	94.0	0	100.0
AQ008	529369, 182648	Cobourg Street	H	Yes	N	12.2	0.7	49.8	0	100.0
AQ009	529707, 182730	Lancing Street	H	Yes	N	13.2	1.2	44.3	0	100.0
AQ010	529223, 182732	Hampstead Road South	H	Yes	N	10.6	1.2	66.2	0	100.0
AQ011	529195, 182904	Hampstead Road	H	Yes	N	27.9	2.3	1988.2	2	100.0

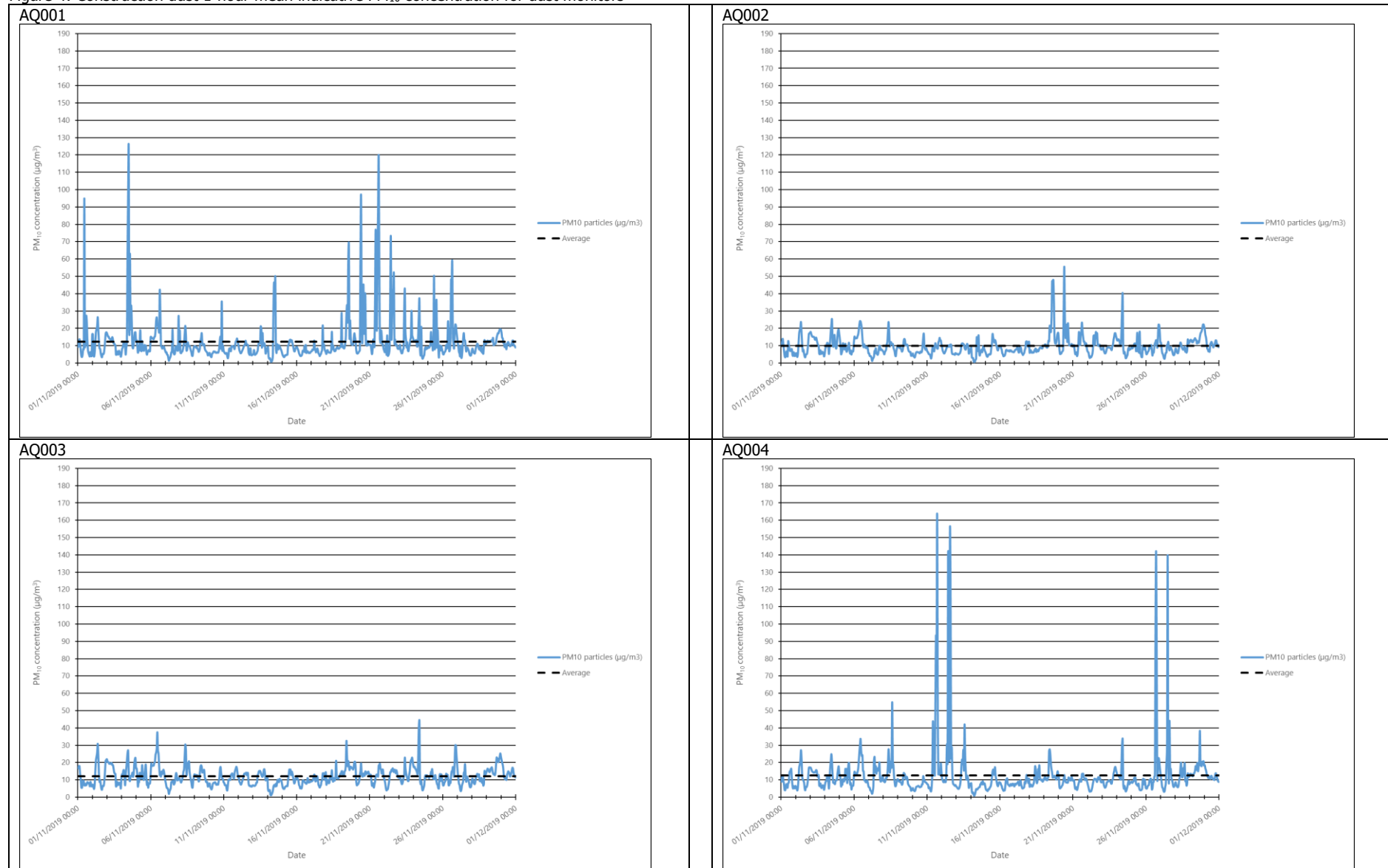
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
AQ012	529119, 182934	Mackworth Street	H	Yes	N	10.3	0.6	55.7	0	100.0
AQ013	529066, 182990	Regents Park Estate	H	Yes	N	19.0	0.9	433.3	2	100.0
AQ014	528550, 183518	Thames Water Compound	L	Yes	N	7.9	0.8	48.7	0	100.0
AQ015	528546, 183604	Prince Albert Road	L	Yes	N	9.0	0.9	45.4	0	100.0
AQ016	528851, 183448	Mornington Terrace North	H	Yes	N	8.5	0.6	57.6	0	100.0
AQ017	528963, 183274	Mornington Terrace South	H	Yes	N	9.3	0.7	40.1	0	100.0
AQ018	529184, 182999	Hampstead Road North	H	Yes	N	13.4	1.5	107.7	0	100.0
AQ020	529132, 182633	Netley School	n/a	Yes	N	10.3	0.9	38.5	0	100.0
AQ021	529127, 183116	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge.	H	Yes	N	12.8	1.1	48.9	0	95.7

Table 3: Summary of exceedances of trigger level in November 2019

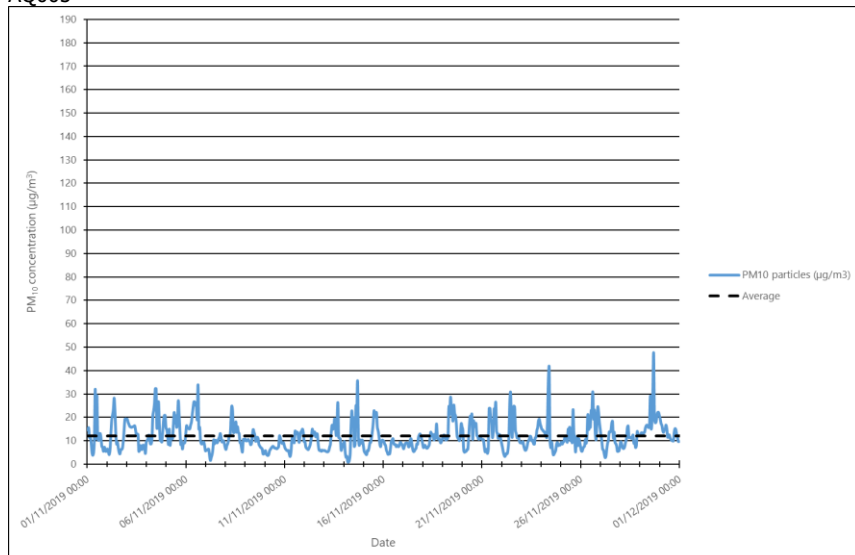
Period exceeding trigger level	Worksite reference	Monitoring site ID	Complaint reference number (if applicable)	Reason	Resolution
05/11/2019 02:01 – 04:00 (x2 alerts)	S001-WS02	AQ011	n/a	The alerts were triggered during the early hours of the morning whilst the site was closed and inactive. The CSJV site team were confident the trigger was not associated with HS2 works. Monitor AQ011 was found to have a faulty heater following a service on the 17 <sup>th</sup> October but it was not possible to fix it at the time. (see October 2019 Report). The triggers were considered to be associated with high humidity level due to the persistent inclement wet weather.	Monitor replaced on the 07/11/2019
05/11/2019 11:01 – 12:00	S001-WS01	AQ013	n/a	Demolition of east wing Eskdale had been underway all day with a dust canon and 3 motofogs in place to suppress the dust, which appeared to be effective. It was therefore surprising when the trigger was received, however on receipt of the trigger works were stopped and dust suppression reviewed.	The majority of the dust suppression was facing southwards towards the north façade of the building which is thought to have aided the dust in moving towards the monitor on the southern boundary of the site. The dust suppression was moved to capture the dust escaping to the south of the building more effectively.
25/11/2019 14:01 – 15:00	S001-WS01	AQ013	n/a	Demolition of Eskdale was underway during afternoon. Dust canon and motofogs were employed for this work. It was however observed prior to 14:00 that the wind had changed direction and increased in strength – which was impacting on the effectiveness of the dust suppression. The dust canon was redeployed to address this but there was still concern that the dust suppression was being affected.	Works were restarted the next day when the wind direction and strength were considered to be acceptable.

				Works on Eskdale were ceased and the demolition curtain lowered around 14:20. However, a trigger was received at 15:00.	
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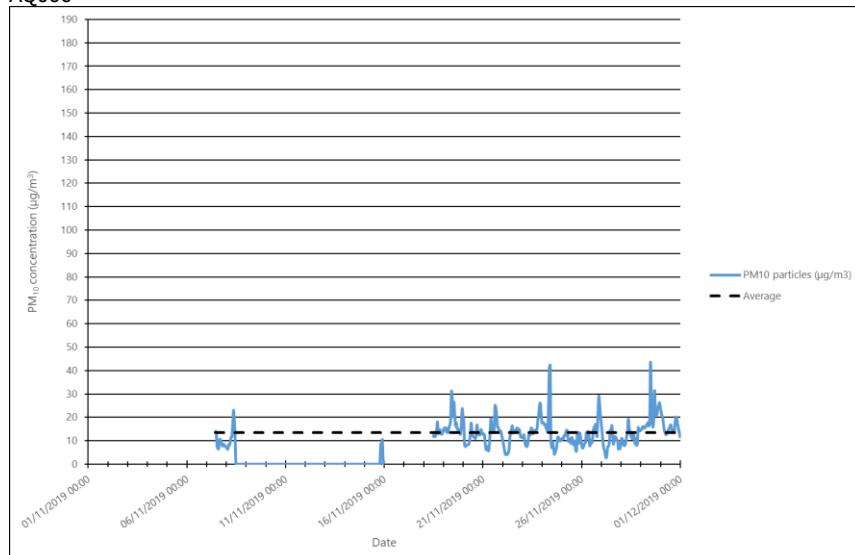
Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitors



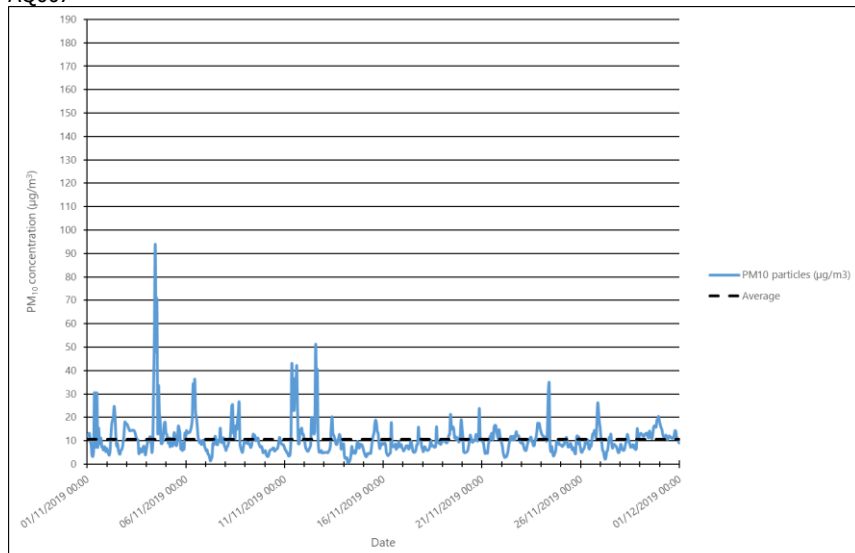
AQ005



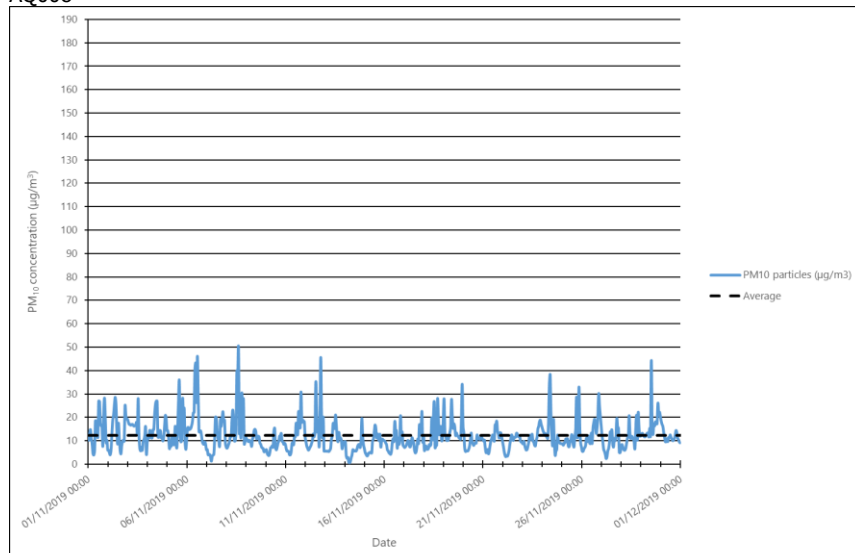
AQ006

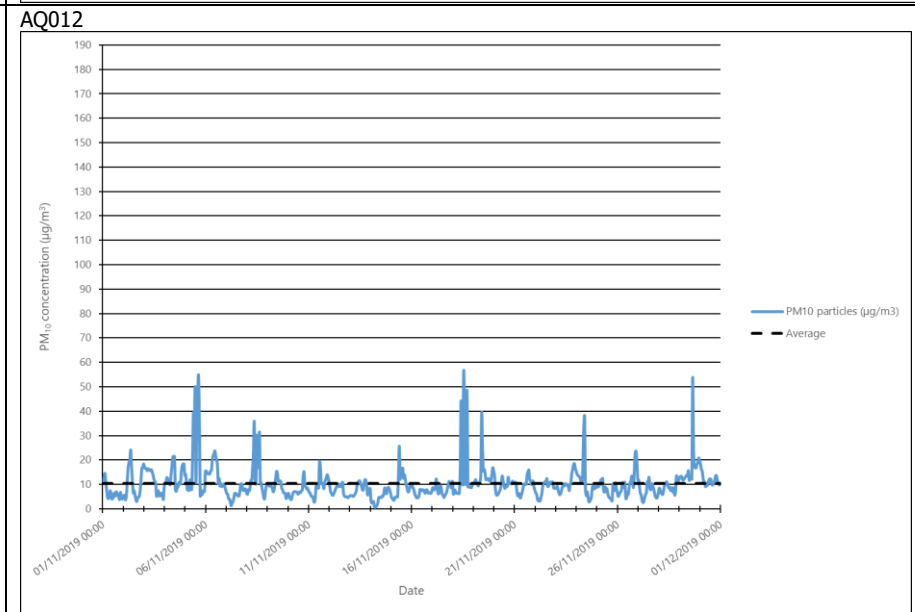
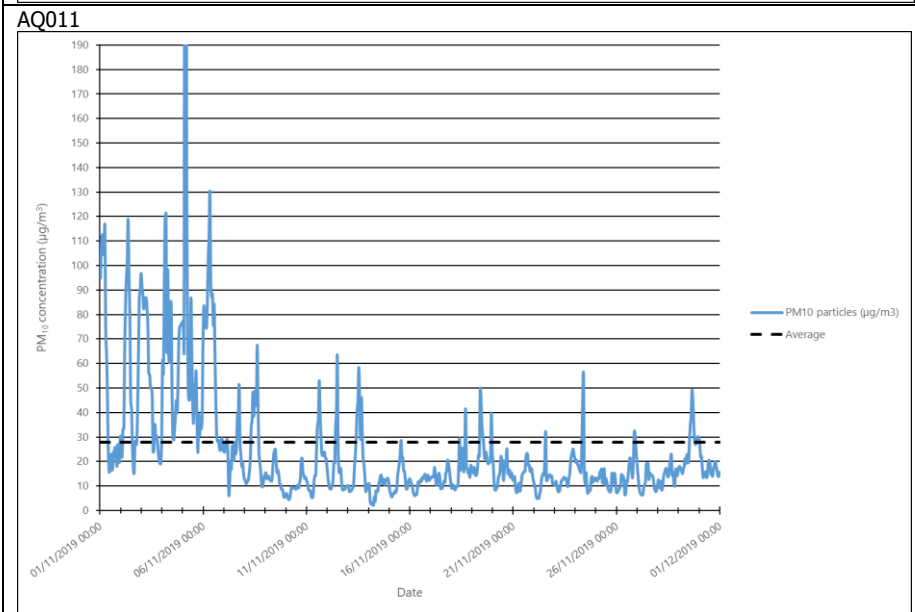
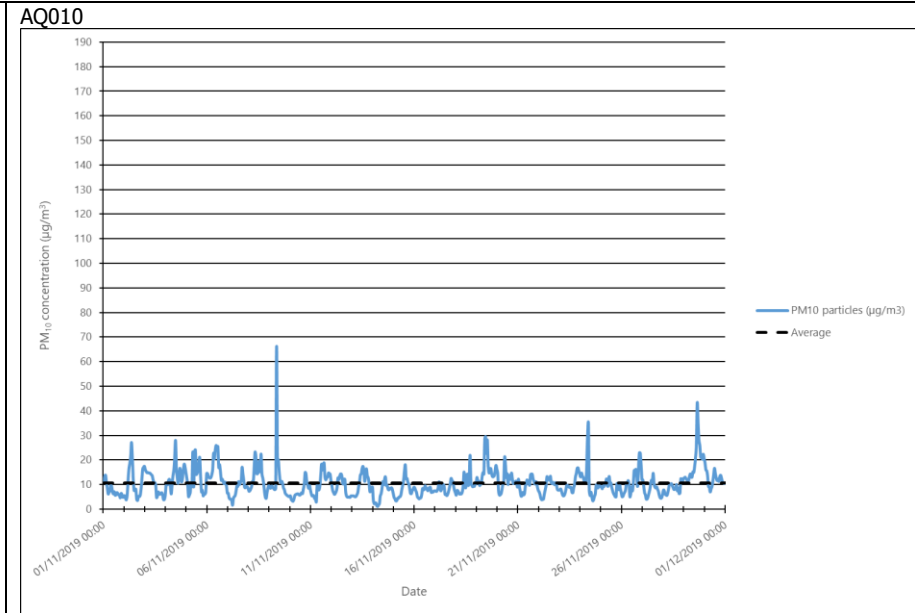
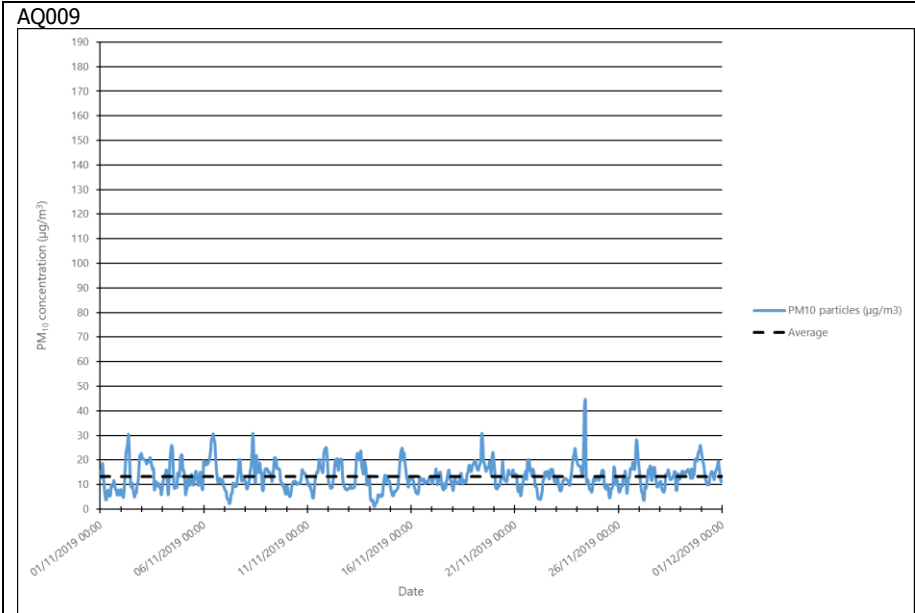


AQ007

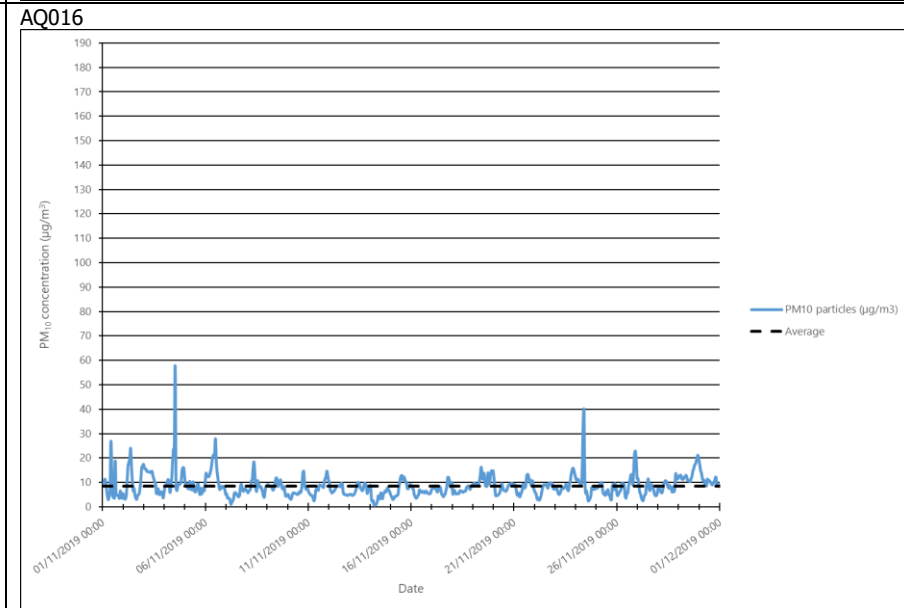
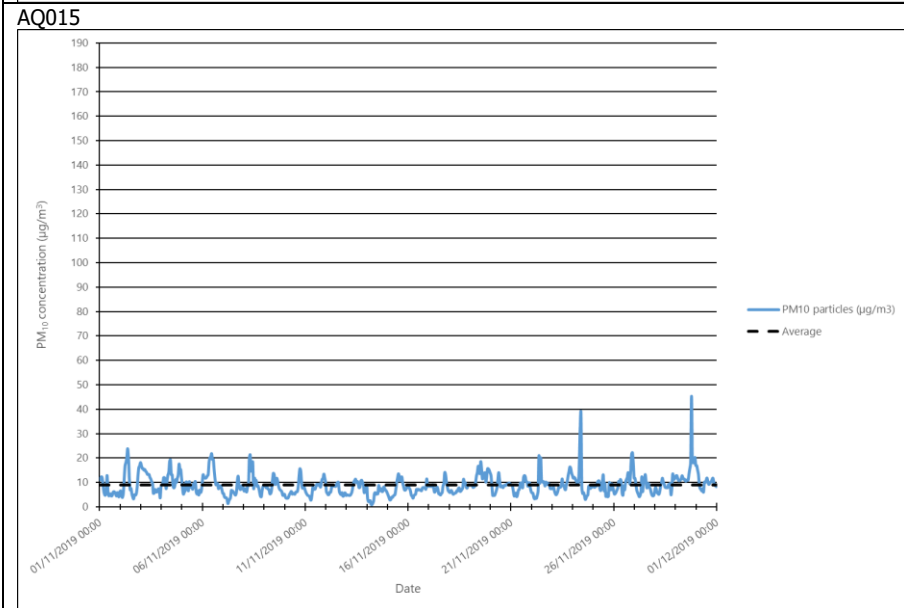
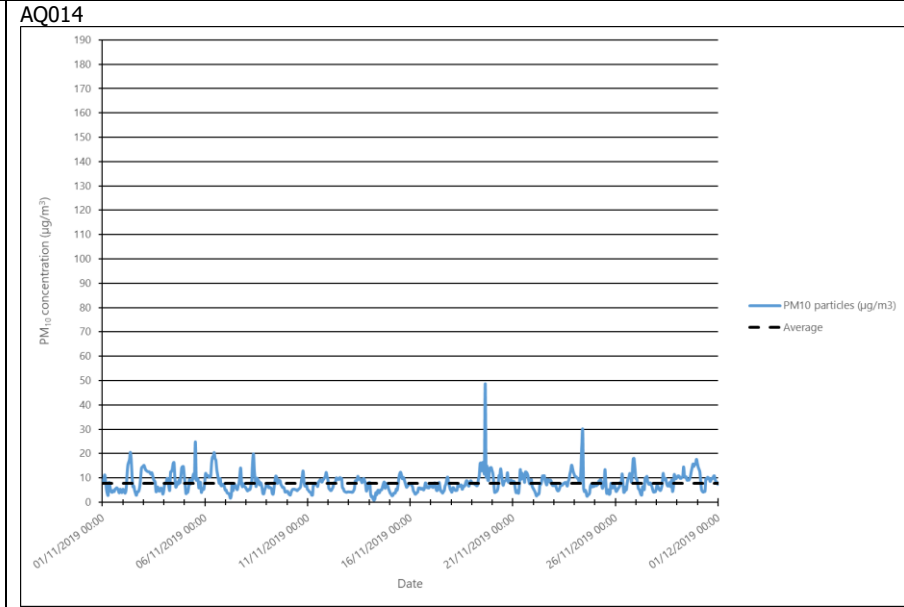
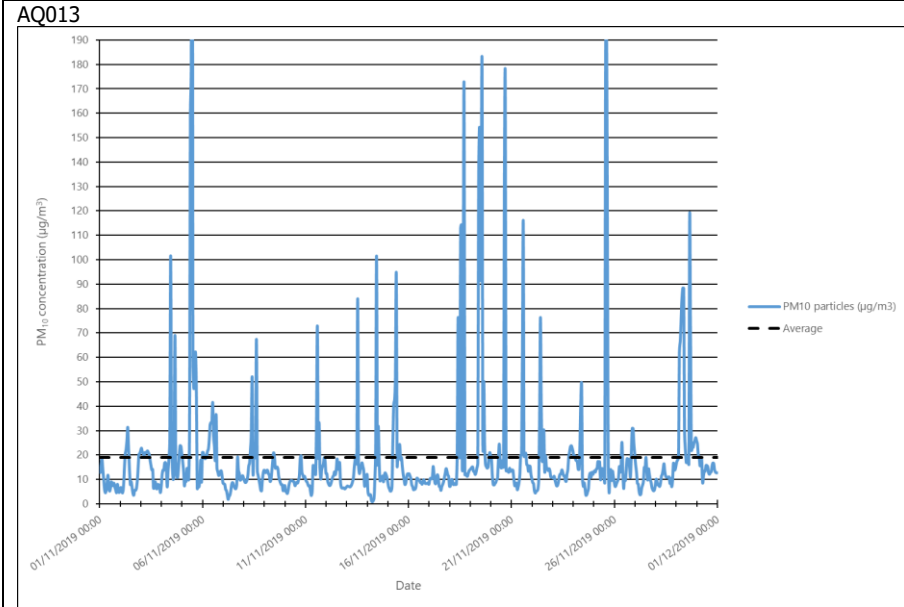


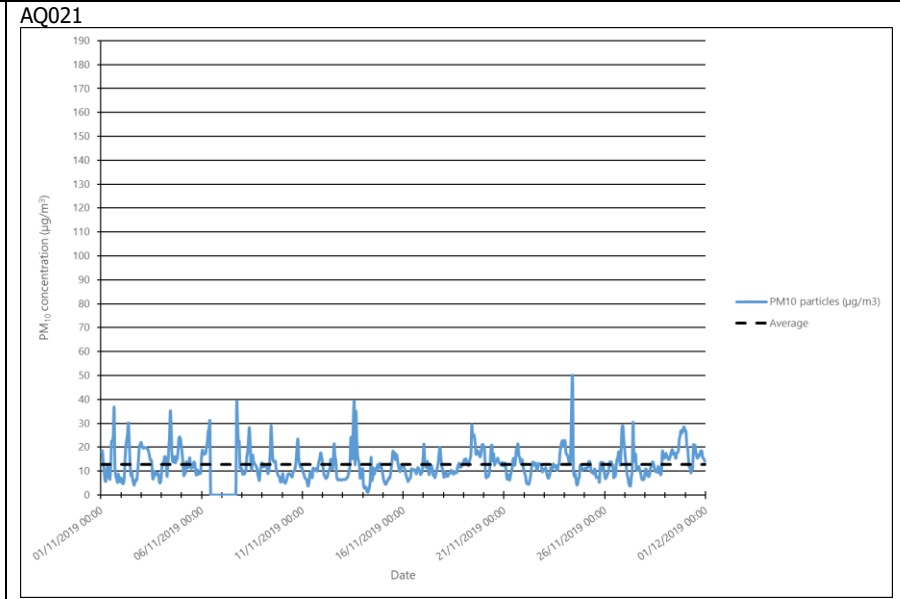
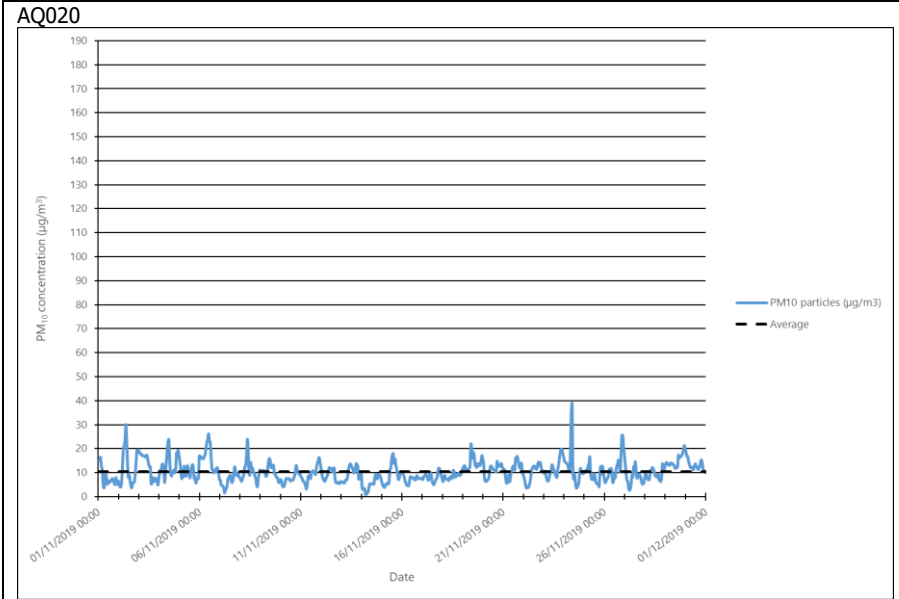
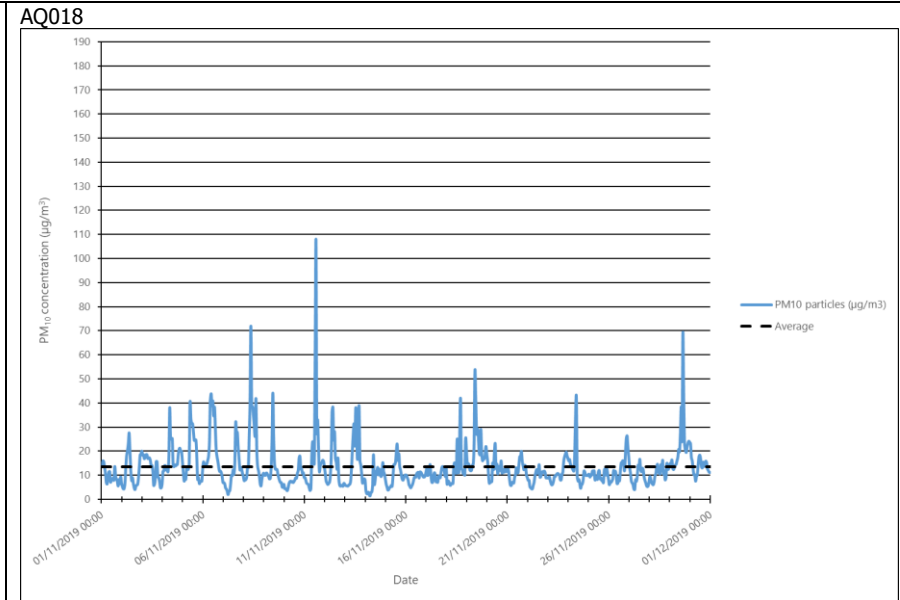
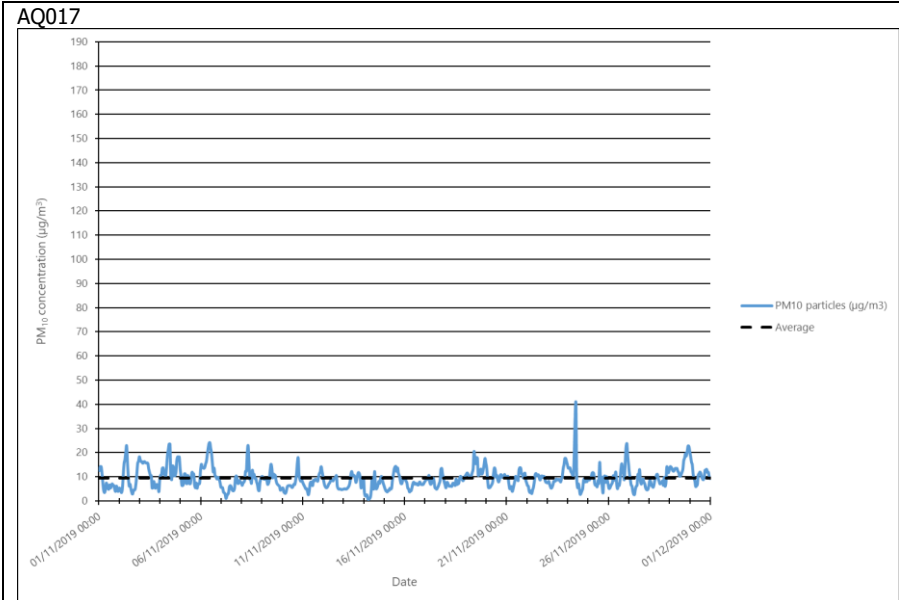
AQ008











## Appendix C – Air Quality Monitoring Results

Table 4: NO<sub>2</sub> monitoring locations around highways, NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2019 (µg/m<sup>3</sup>)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>1</sup>
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	58	64	46	53	49	43	46	39	46	44			49
HS2-000020BM6	Brunswick Square	530321, 182268	51	63	49	42	35	36	39	38	39	33			43
HS2-000020BM7	Chalton Street	529894, 182702	63	83	66	72	Tube missing			52	Tube missing				67
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	63	72	66	75	61	53	52	59	60	45			61
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	47	63	56	59	56	48	49	46	49	43			52
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	51	76	63	56	46	52	50	Tube missing	54	45			55
HS2-000020BMB	Whitfield Street	529273, 182114	49	58	43	48	33	33	33	36	37	42			41
HS2-000020BMC	Hampstead Road	529232, 182511	53	84	71	74	62	61	61	70	65	61			66
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	39	47	Tube missing	40	27	29	26	27	32	32			33
HS2-000020BMH	Nash Street	528861, 182717	43	51	35	37	30	28	29	33	35	34			36
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	39	43	37	30	28	31	27	31	38	37			34

<sup>1</sup> 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 <sup>1</sup>
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	66	68	55	50	39	40	44	47	51	42			50
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	47	44	38	41	26	27	29	30	36	32			35
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	52	75	62	47	49	47	52	57	56	53			55
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	43	53	43	40	36	33	34	37	37	32			39
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	50	57	43	58	45	46	44	41	47	46			48
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	44	49	41	41	30	Tube missing	28	30	35	27			36
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	59	52	50	52	47	45	50	45	47	49			50
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	57	57	55	55	46	43	45	42	50	46			50
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	47	51	39	43	28	Tube missing	34	36	41	35			39
HS2-000020BMV	Primrose Hill Road	527538, 184250	46	45	38	Tube missing	29	22	30	32	34	34			35
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	61	59	55	60	47	50	Tube missing		47	Tube missing			54
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	87	92	87	90	73	74	75	74	74	73			80
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	45	48	30	27	25	28	27	30	33	28			32

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>1</sup>
HS2-000020BNB	Junction of Gloucester Gate Bridge and Park Village East	528639, 183518	53	45	41	37	Tube missing							44	
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	35	36	24	33	21	25	Tube missing		31	30			29
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	43	53	37	41	30	34	33	34	39	42			39
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	50	Tube missing		35	29	Tube missing	27	34	37	37			36
HS2-000020BNQ	Camley Street	529735, 183737	50	49	Tube missing		19	29	27	Tube missing	35	32			34
HS2-000020BNI	Junction of Mill Lane and Hillfield Road	524839, 185136	53	50	44	38	34	36	33	37	42	40			41
HS2-000020BNZ	Mansfield Road	528050, 185508	24	44	34	30	Tube missing	29	27	32	34	34			32
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	52	70	56	54	46	54	45	47	63	45			53
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	65	52	49	48	43	43	41	38	51	41			47
HS2-000020BPB	Camden High Street	528966, 183735	65	81	75	58	63	61	57	60	58	56			63
HS2-000020BPC	Castlehaven Road	528788, 184591	45	47	40	33	31	32	28	30	37	36			36
HS2-000020BPD	Prince of Wales Road	528571, 184683	35	43	37	28	28	25	23	24	30	32			30
HS2-000020BPE	Haverstock Hill	527710, 184749	54	62	53	37	Tube missing	37	36	38	38	40			44
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	44	52	41	35	32	31	29	31	35	38			37
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	54	60	56	50	Tube missing	42	51	43	48	41			49

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>1</sup>
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	48	51	44	44	40	39	38	36	42	40			42
HS2-000020BPX	Netley Street	529177, 182625	43	50	40	48	32	36	29	29	38	36			38
HS2-000020BPY	Stanhope Street	529060, 182947	34	46	32	36	24	24	Tube missing	24	32	36			32
HS2-000020BPZ	Albany Street	528790, 182923	44	57	42	43	34	34	32	31	43	38			40
HS2-000020BQ0	Werrington Street	529493, 183113	43	Tube missing	39	39	26	28	25	27	35	35			33
HS2-000020BQ1	Polygon Road	529574, 183045	41	46	37	34	Tube missing	28	Tube missing	28	33	Tube missing			35
HS2-000020BQ2	Alexandra Place	526320, 183980	42	Tube missing	30	39	25	Tube missing	24	26	31	35			31
HS2-000020BQ3	Harrington Square	529228, 183172	46	60	45	48	40	42	40	38	45	48			45
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	51	54	41	44	23	33	30	30	37	37			38
HS2-000020BQ5	Adelaide Road	527713, 184392	50	54	43	41	32	30	35	34	33	39			39
HS2-000020BQ6	Mornington Terrace	528836, 183474	45	46	35	34	28	27	25	27	31	34			33
HS2-000020BQ7	Arlington Road	529009, 183479	43	40	37	33	28	24	26	28	Tube missing	28			32
HS2-000020BQ8	Clarkson Row	529024, 183213	42	45	34	36	26	27	24	27	32	36			33
HS2-000020BQ9	Park Village East	528923, 183121	40	44	Tube missing		24	24	22	26	33	31			30
HS2-000020BQA	Eversholt Street	529386, 183132	57	67	56	49	46	Tube missing	44	42	50	53			52
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	42	43	32	40	26	26	24	25	33	37			33

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>1</sup>
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	49	48	42	56	33	37	34	30	37	38			40
HS2-000020BQD	Drummond Crescent	529648, 182856	50	51	45	44	33	34	33	38	41	39			41
HS2-000020BQJ	Grafton Way	529380, 182225	64	70	59	56	51	62	57	53	64	58			59
HS2-000020BQL	Delancey Street	528768, 183581	58	57	47	51	45	39	43	35	50	46			47
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	46	42	36	34	26	Tube missing	25	24	33	32			33
HS2-000020BQS	Opposite Maria fidelis school on Pheonix Road	529670, 182982	43	43	37	41	Tube missing	34	26	27	Tube missing	38			36
HS2-000020BQT	Drummond Street	529385, 182581	52	51	43	47	31	37	31	31	39	44			41
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	64	Tubes missing			46	53	45	Tubes missing	56	49			52
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	Tubes missing	81	69	78	63	77	61	66	78	69			71
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	55	47	38	38	36	32	30	26	36	37			37