August 2020

# HS2

## Air Quality and Dust Monitoring Monthly Report - August 2020

London Borough of Camden



SKANSKA



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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 July and August 2020 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 <a href="www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2">www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2</a>, 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 enabling works commenced within the LBC during December 2017 and is expected to be completed by October 2020. 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:
  - Site office and welfare on the adjacent former Addison Lee compound on Granby Terrace.
  - Archaeological dig at St James' Gardens, groundworks, materials management and partial handover to the station works contractor.
  - Demolition, materials management and groundworks at:
    - o IBIS Hotel, 3 Cardington Street;
    - o Thistle Hotel, Cardington Street;
    - o Cobourg Street / Euston Street;
    - o Regents Park Estate including phased handover to the mains works contractor;
    - o Walkden House, 67-75 & 77-79 Euston Street;
    - o One Euston Square, 40 Melton Street and Grant Thornton House, 22 Melton Street; and
    - o 132 140 Hampstead Road and Petrol Station.
  - National Temperance Hospital, Site Office and Welfare 110-122 Hampstead Road.
  - London Underground Traction Substation and Vent Shaft mobilisation and site set up.
  - Vehicle Holding Area, site set up and groundworks.
  - Euston Scissor Cut test piling and materials management.
  - Euston Throat Retained Cut mobilisation, site set up and hoarding works.
  - Adelaide Road Vent Shaft mobilisation and roadworks outside of site.
- 1.1.5 Twenty (20) 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.

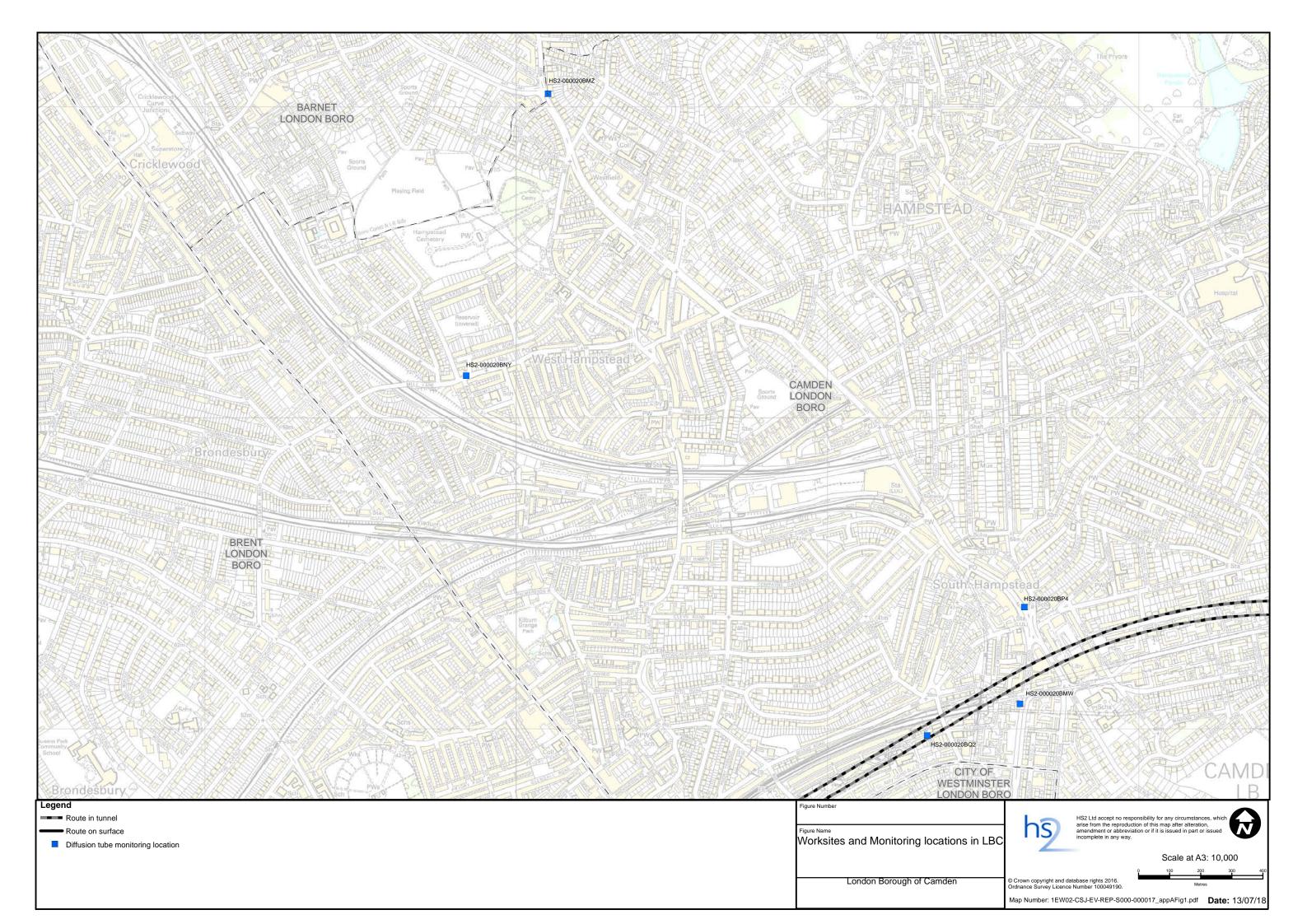
- 1.1.7 The trigger level for  $PM_{10}$  concentrations of 190  $\mu$ g/m³, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (August 2020). All results were in line with expected ranges.
- 1.1.9 Data capture for monitors AQ009, AQ013 and AQ014 was below 90% for the month of August 2020 due to power related issues. These issues have now been resolved.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) is undertaken at sixty-five (65) 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 NO<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 2, together with the 2020 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 (July 2020), together with the findings of any related investigations.

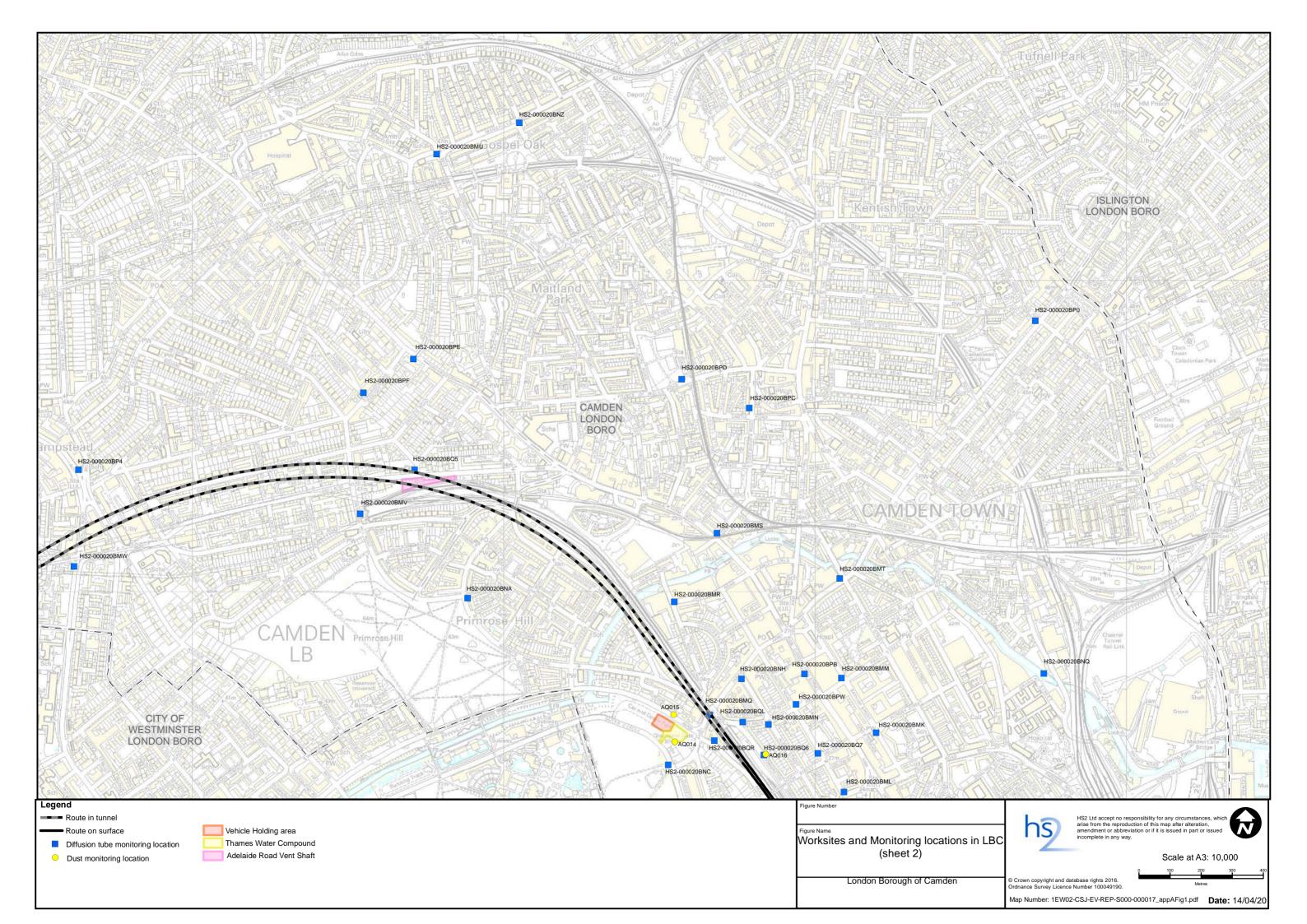
Table 1: Summary of complaints received during June 2020 in LBC

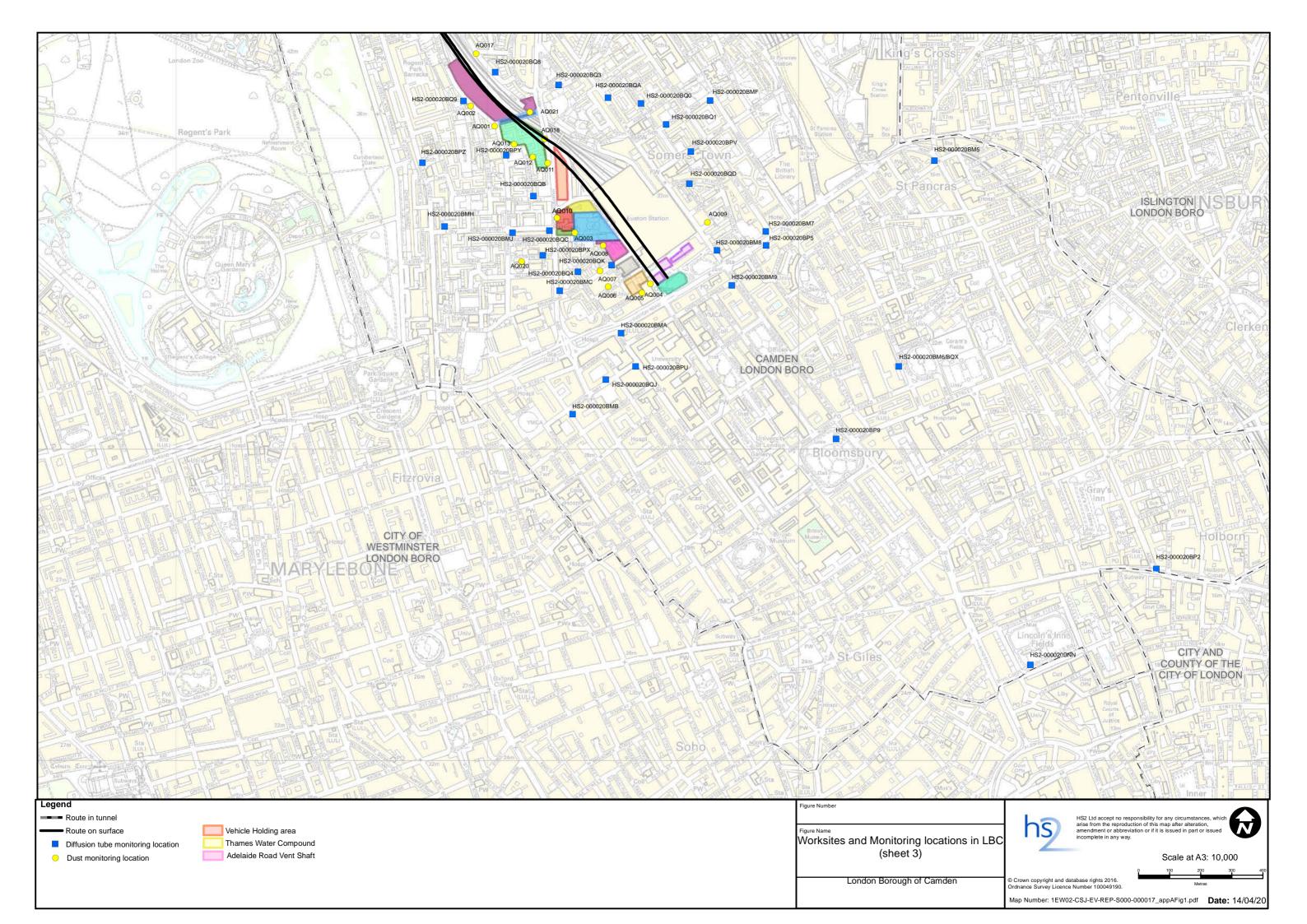
Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-20-40369-C	-	On 10 <sup>th</sup> August, 2 x complaints were raised	The HS2 Community Engagement team highlighted that the general principles of how HS2 manage the impacts of construction are available on the Camden Common Place website
HS2-20-40370-C	-	about dust levels.	(https://hs2ineuston.commonplace.is/schemes/proposals/managing-the-
HS2-20-40412-C	Park Village East	On 14 <sup>th</sup> August, complaint raised about debris coming in through the windows.	impacts-of-construction/details).  Best Practice Mitigation measures are in place across all HS2 sites, as set out in the Code of Construction Practice, which for air quality include regular dampening down, strict emission standards for vehicles and
HS2-20-40421-C	Langdale RPE	On 14 <sup>th</sup> August, a complaint was raised about dust levels.	plant as well as dust monitoring around medium and high risk sites, with alert levels set, allowing contractors to take rapid action if there is a rise in dust levels.

#### Appendix A – Worksites and Monitoring Locations

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





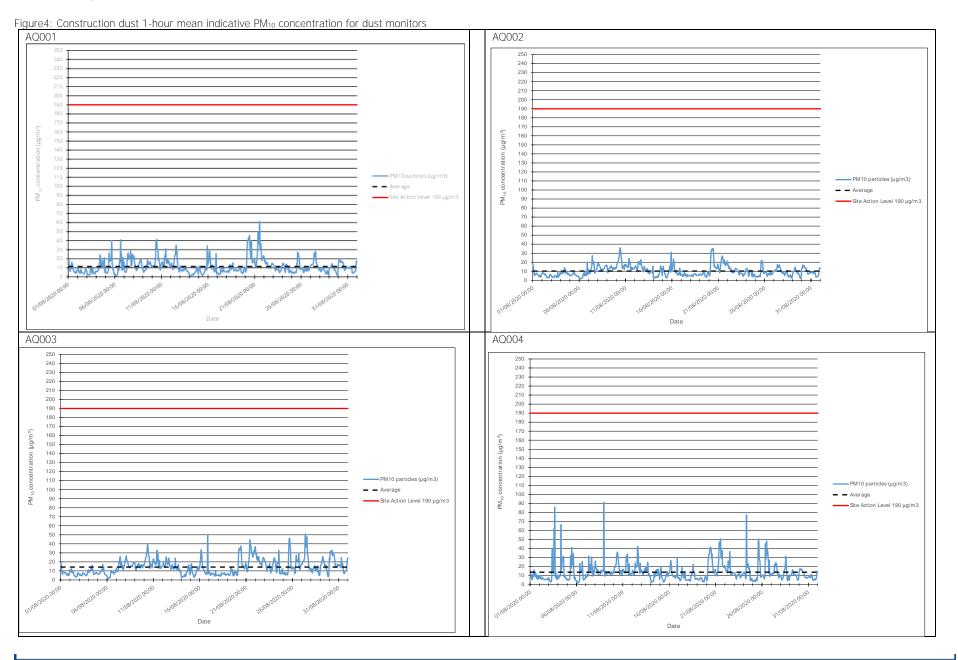


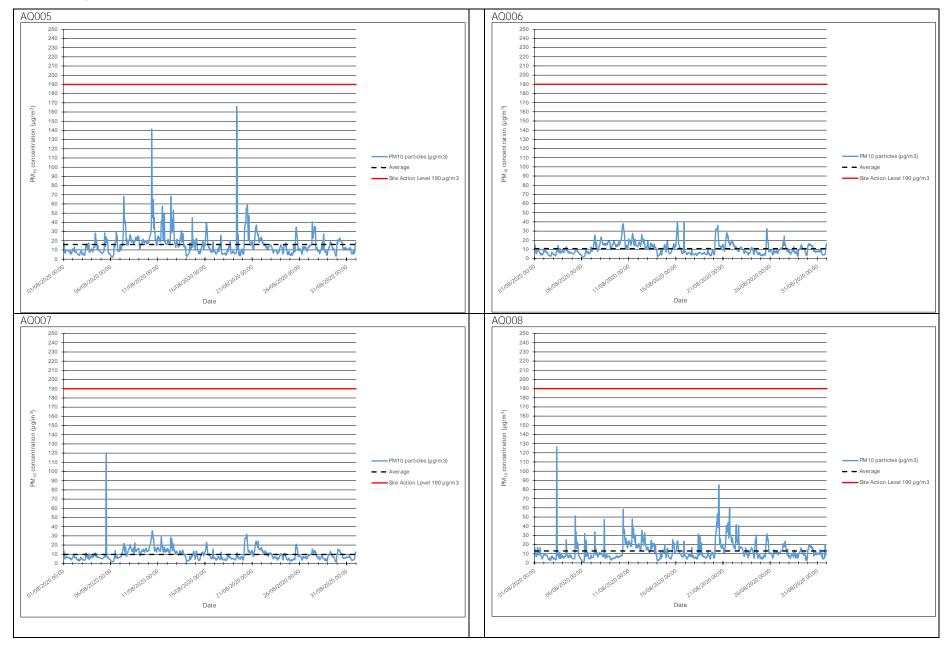
# Appendix B – Dust Monitoring Results

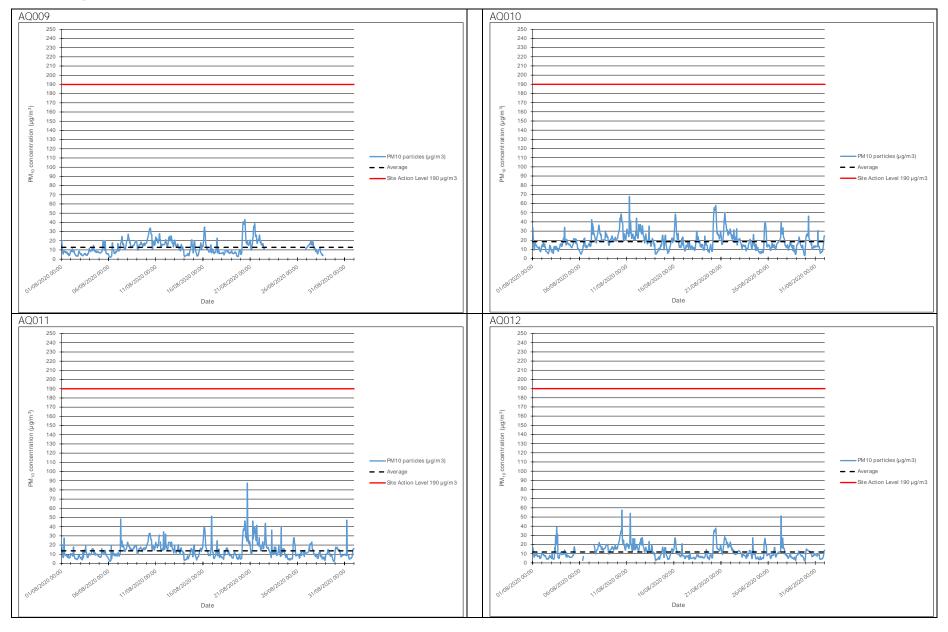
Table 2: Dust monitoring locations and August 2020 Results

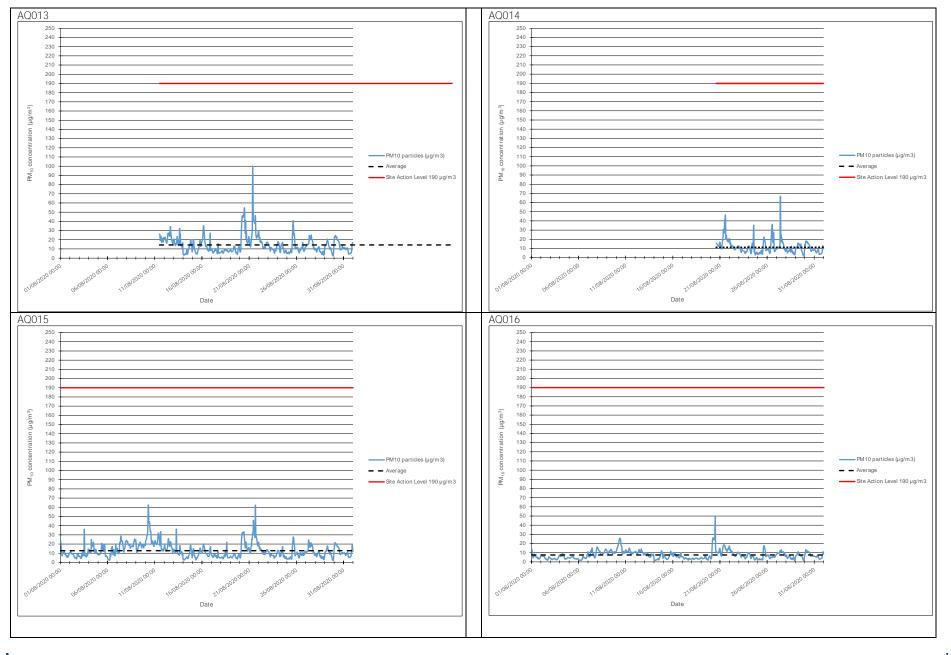
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (μg/m³)	Minimum 1- hour PM <sub>10</sub> concentration (µg/m³)	Maximum 1- hour PM <sub>10</sub> concentration (μg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture (%)
AQ001	529022, 183040	Junction of Park Village East, Stanhope Street and Granby Terrace	Н	Yes	N	11.6	1.3	61.3	0	100.0
AQ002	528945, 183105	Park Village East	Н	Yes	N	10.1	1.6	36.0	0	100.0
AQ003	529279, 182698	St James' Gardens	М	Yes	N	14.2	2.0	50.9	0	100.0
AQ004	529523, 182533	Melton Street	Н	Yes	N	13.8	1.7	91.1	0	100.0
AQ005	529496, 182505	Stephenson Way	Н	Yes	N	16.0	2.0	162.0	0	100.0
AQ006	529399, 182514	Euston Street	Н	Yes	N	10.8	1.8	40.3	0	100.0
AQ007	529369, 182564	Drummond Street	Н	Yes	N	9.8	1.6	119.8	0	100.0
AQ008	529372, 182657	Cobourg Street	Н	Yes	N	13.0	1.2	126.3	0	100.0
AQ009	529707, 182730	Lancing Street	Н	Yes	N	12.9	1.9	42.8	0	75.5
AQ010	529223, 182732	Hampstead Road South	М	Yes	N	18.4	3.2	67.8	0	100.0
AQ011	529193, 182921	Hampstead Road	М	Yes	N	13.7	2.3	87.5	0	99.9

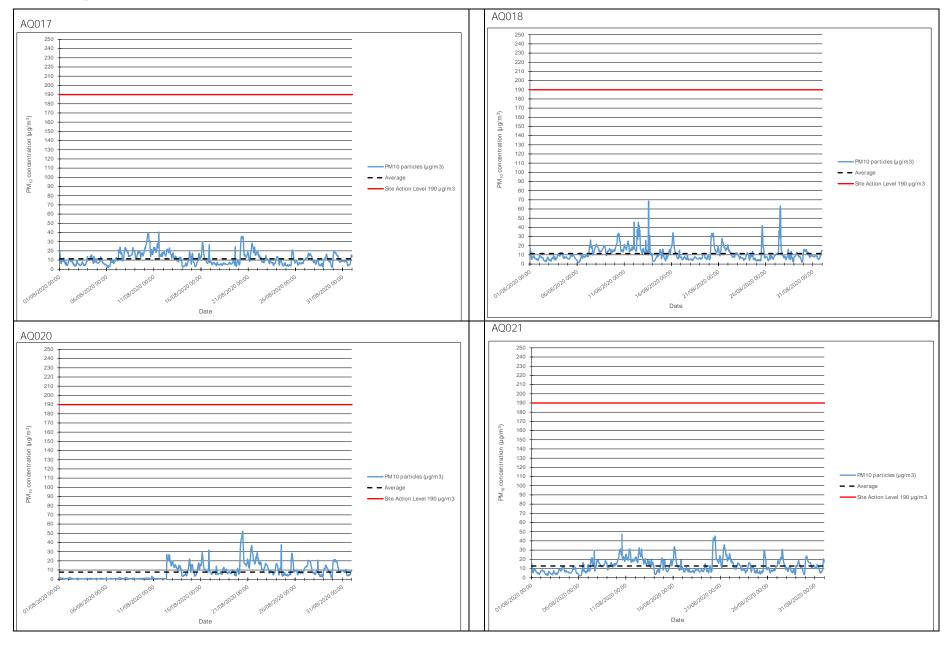
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (μg/m³)	Minimum 1- hour PM <sub>10</sub> concentration (μg/m³)	Maximum 1- hour PM <sub>10</sub> concentration (μg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture (%)
AQ012	529145, 182941	Rear of Coniston House	Н	Yes	N	11.9	2.3	57.6	0	94.2
AQ013	529086, 182983	Regents Park Estate	М	Yes	N	14.4	2.5	100.2	0	66.3
AQ014	528550, 183518	Thames Water Compound	L	Yes	N	11.4	1.8	67.0	0	36.8
AQ015	528546, 183604	Prince Albert Road	L	Yes	N	12.8	2.2	62.6	0	100.0
AQ016	528840, 183466	Mornington Terrace North	М	Yes	N	7.5	1.5	49.2	0	100.0
AQ017	528963, 183274	Mornington Terrace South	М	Yes	N	11.4	2.0	40.5	0	100.0
AQ018	529184, 182999	Hampstead Road North	М	Yes	N	11.5	1.9	68.8	0	100.0
AQ020	529109, 182605	Netley School	n/a	Yes	N	7.8	0.2	52.0	0	100.0
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge.	М	Yes	N	12.7	1.9	47.4	0	99.9











### Appendix C – Air Quality Monitoring Results

Table 3:  $NO_2$  monitoring locations around highways,  $NO_2$  concentrations and monthly monitoring results with running mean for 2020 ( $\mu g/m^3$ )

Monitoring Site	Location description	Coordinate s (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	56	51		No data		34	27						42
HS2-000020BM6	Brunswick Square	530321, 182268	55	57		No data		No data	No data						56
HS2-000020BM7	Chalton Street	529894, 182702	66	65		No data		Tube missing	Tube missing						65
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	57	57		No data		40	32						46
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	56	58		No data		38	25						44
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	59	54		No data		33	30						44
HS2-000020BMB	Whitfield Street	529273, 182114	45	43		No data		26	19						33
HS2-000020BMC	Hampstead Road	529232, 182511	58	53		No data		Tube missing	48						53
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	38	Tube missing		No data		24	14						26
HS2-000020BMH	Nash Street	528861, 182717	44	37		No data		Tube missing	21						34
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	39	33		No data		26	22						30

<sup>1</sup> Note: Due to the COVID-19 pandemic and government lockdown it was not possible to conduct diffusion tube air quality monitoring in March, April and May 2020.

<sup>&</sup>lt;sup>2</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	Location description	Coordinate s (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	56	49		No data		38	36						45
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	44	38		No data		23	19						31
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	62	58		No data		40	39						50
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	45	41		No data		28	26						35
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	51	43		No data		32	25						38
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	42	36		No data		24	21						31
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	52	50		No data		39	29						42
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	51	43		No data		34	28						39
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	45	No data		No data		29	24						33
HS2-000020BMV	Primrose Hill Road	527538, 184250	44	38		No data		22	18						30
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081				Tube missi	ng								-
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	82	61		No data		56	47						61
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	42	30		No data		Tube missing	20						31

Monitoring Site		Coordinate													
ID	Location description	s (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	33	25		No data		19	13						23
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	46	35		No data		29	24						33
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	41	41		No data		20	18						30
HS2-000020BNQ	Camley Street	529735, 183737	Tube missing	31		No data		27	Tube missing						29
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	45	41		No data		29	Tube missing						38
HS2-000020BNZ	Mansfield Road	528050, 185508	40	33		No data		25	20						30
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	58	51		No data		47	36						48
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	48	45		No data		27	22						35
HS2-000020BPB	Camden High Street	528966, 183735	65	54		No data		50	15						46
HS2-000020BPC	Castlehaven Road	528788, 184591	43	36		No data		24	52						39
HS2-000020BPD	Prince of Wales Road	528571, 184683	39	27		No data		20	13						25
HS2-000020BPE	Haverstock Hill	527710, 184749	52	41		No data		33	24						37
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	47	33		No data		27	18						31
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	56	50		No data		31	27						41
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	50	37		No data		31	24						36
HS2-000020BPX	Netley Street	529177, 182625	34	28		No data		29	17						27

Monitoring Site	Location description	Coordinate	Jan	Feb	Mar <sup>1</sup>	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
ID	Location acscription	s (X, Y)	Jan	1 CD	IVIGI	Дрі	ividy	Juli	341	Aug	ЭСР	OCT	1100	DCC	IVICALI
HS2-000020BPY	Stanhope Street	529060, 182947	40	29		No data		22	15						26
HS2-000020BPZ	Albany Street	528790, 182923	44	36		No data		24	19						31
HS2-000020BQ0	Werrington Street	529493, 183113	42	36		No data		22	16						29
HS2-000020BQ1	Polygon Road	529574, 183045	44	35		No data		23	16						30
HS2-000020BQ2	Alexandra Place	526320, 183980	39	31		No data		21	14						26
HS2-000020BQ3	Harrington Square	529228, 183172	50	38		No data		35	28						38
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	44	36		No data		25	20						31
HS2-000020BQ5	Adelaide Road	527713, 184392	Tube missing	40		No data		25	19						28
HS2-000020BQ6	Mornington Terrace	528836, 183474	39	30		No data		20	16						26
HS2-000020BQ7	Arlington Road	529009, 183479	40	33		No data		24	17						29
HS2-000020BQ8	Clarkson Row	529024, 183213	39	31		No data		20	16						27
HS2-000020BQ9	Park Village East	528923, 183121	37	29		No data		21	16						26
HS2-000020BQA	Eversholt Street	529386, 183132	60	48		No data		35	29						43
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	41	30		No data		23	16						28
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	47	37		No data		32	21						34
HS2-000020BQD	Drummond Crescent	529648, 182856	Tube missing	42		No data		27	21						30
HS2-000020BQJ	Grafton Way	529380, 182225	55	54		No data		36	33						44

Monitoring Site	Location description	Coordinate s (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BQL	Delancey Street	528768, 183581	44	No data		No data		33	26						34
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	37	33		No data		21	19						27
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	40	36		No data		21	18						29
HS2-000020BQT	Drummond Street	529385, 182581	47	35		No data		25	19						31
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	No data	No data		No data		28	22						25
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	54	Tubes missing		No data		41	35						43
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	69	67		No data		54	35						56
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	44	43		No data		23	19						32