

## Air Quality and Dust Monitoring Monthly Report – **August** 2020

London Borough of Hammersmith and  
Fulham



**SKANSKA**



## Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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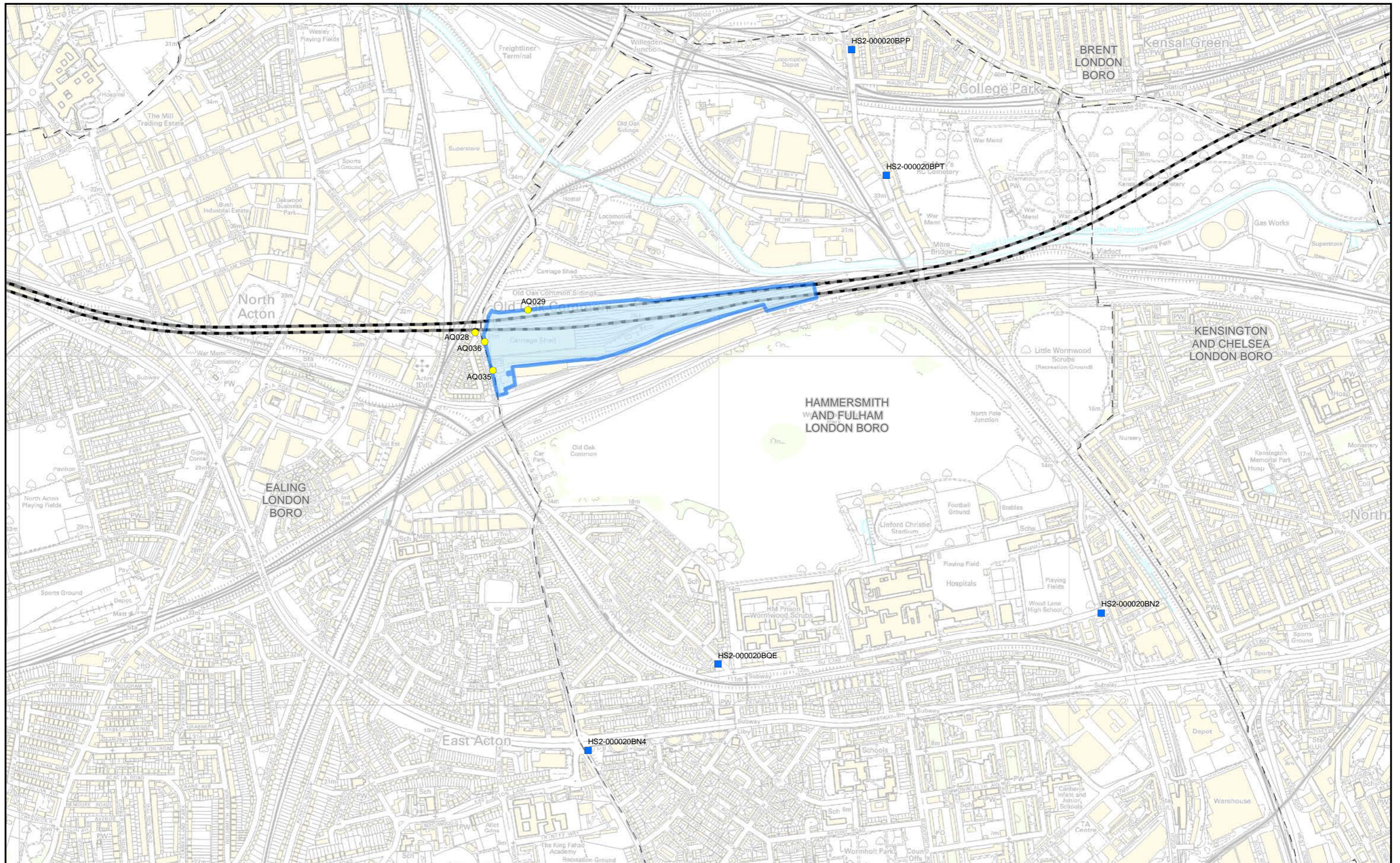
# Monthly Summary

- 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 Hammersmith and Fulham (LBHF) during July and August 2020 respectively.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current worksite 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 LBHF during May 2018 and completed in August 2020. The next phase of construction works commenced in August 2020 and is expected to be completed by 2025. The current worksite, as presented in Appendix A, Figure 1, includes:
- Mobilisation and new site set up at Old Oak Common Depot for the station works.
- 1.1.5 Four (4) dust monitors are installed around the worksite, where works are underway. This site returned a 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 3. 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<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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 this monitoring period (August 2020). All results were in line with expected ranges.
- 1.1.9 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) is undertaken at seven (7) locations around highways within the LBHF as part of the management of air quality where significant effects may occur as a result of the scheme.

- 1.1.10 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.
- 1.1.11 NO<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 2, together with the 2020 running mean.
- 1.1.12 There were no (0) complaints received, relating to air quality, during this reporting period (August 2020).

# Appendix A – Worksites and Monitoring Locations

Figure 1 and 2: Worksites and monitoring locations within the LBHF



- Legend**
- Route in tunnel
  - Route on surface
  - Dust monitoring location
  - Diffusion tube monitoring location
  - Old Oak Common worksite

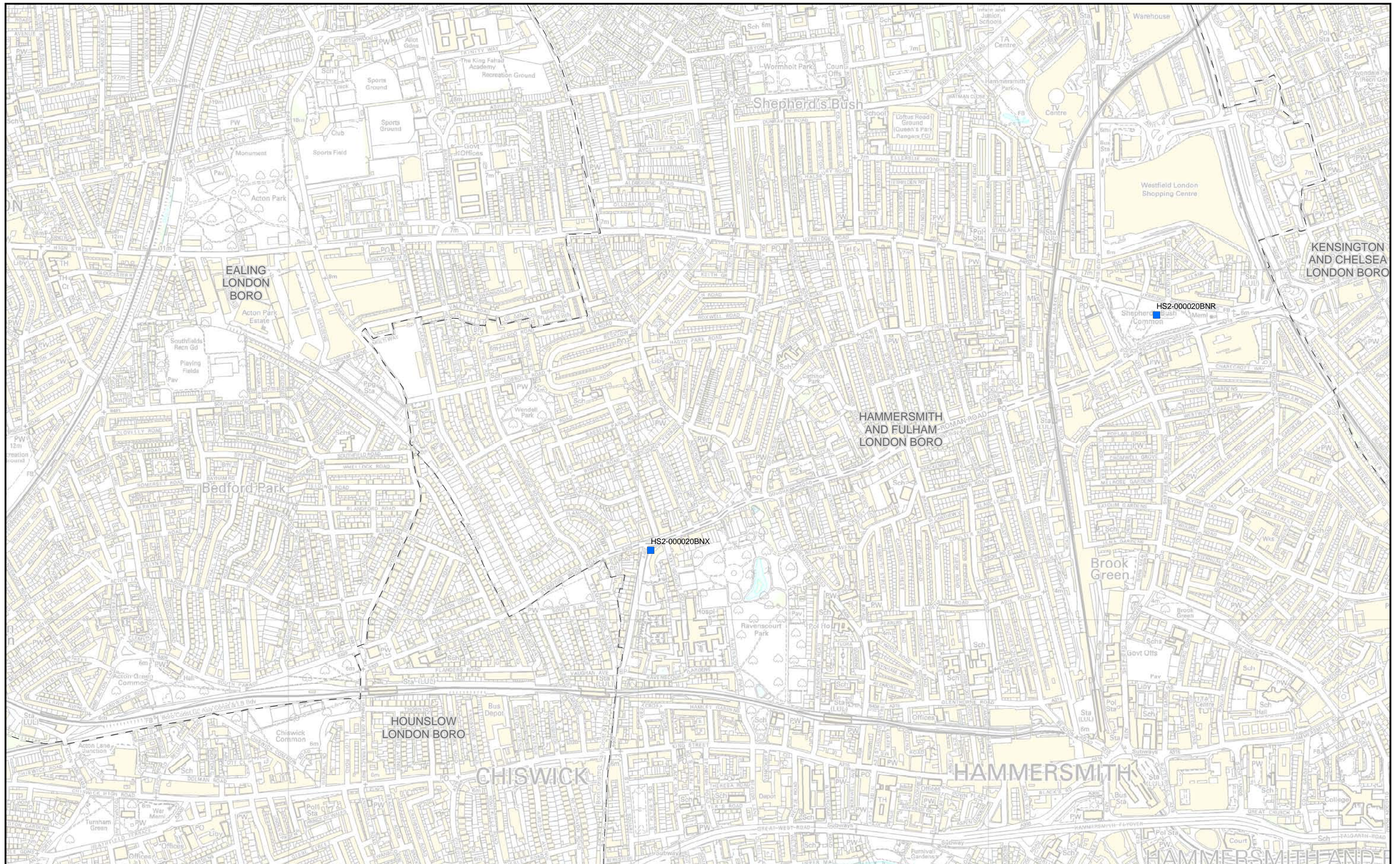
Figure Number  
 Figure Name  
**Worksites and Monitoring locations in LBHF (sheet 1)**  
 London Borough of Hammersmith and Fulham

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Scale at A3: 10,000

0 100 200 300 400 Metres

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

Figure Number


Figure Name  
**Worksites and Monitoring locations in LBHF (sheet 2)**

London Borough of Hammersmith and Fulham

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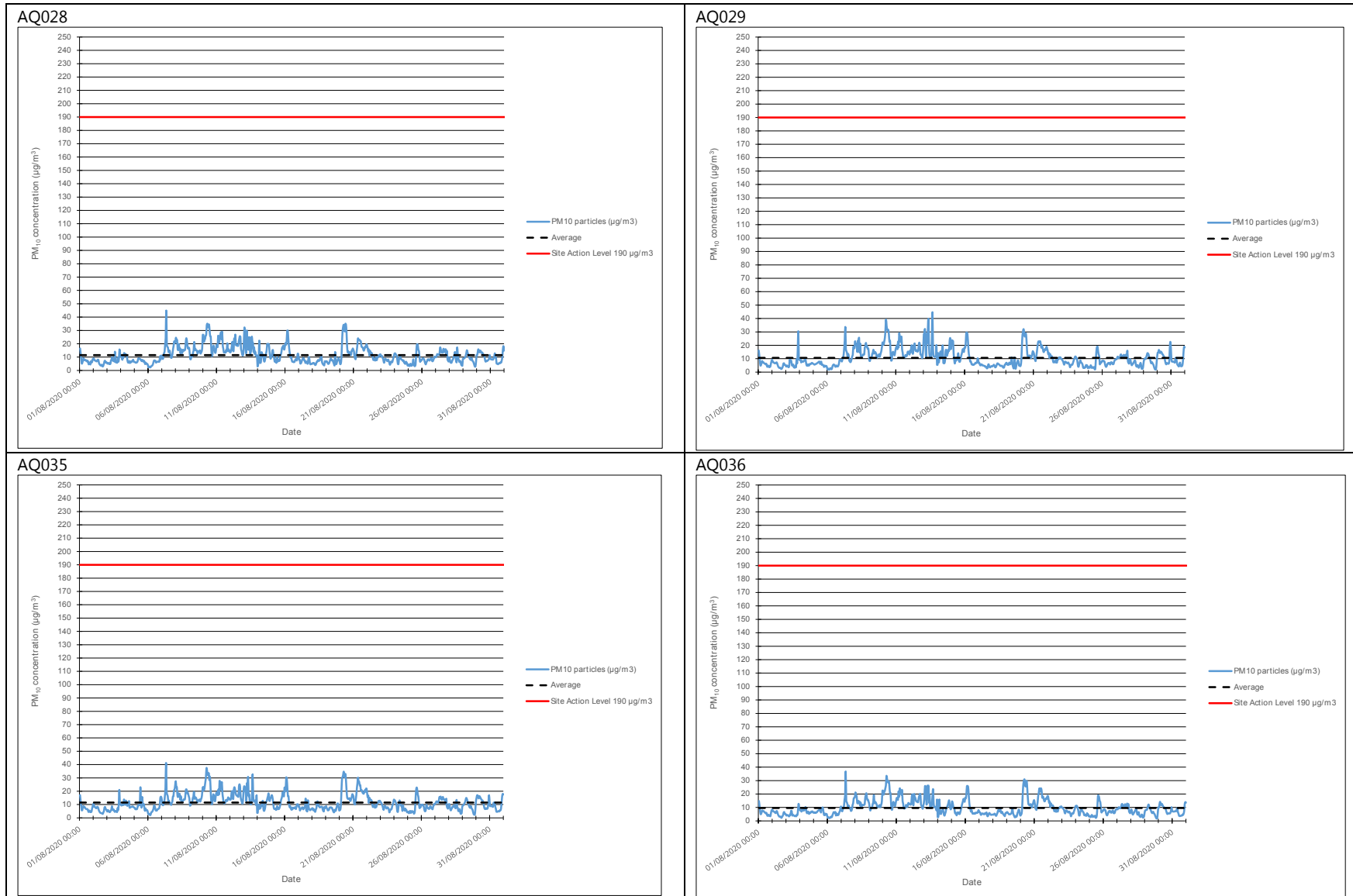
## Appendix B – Dust Monitoring Results

Table 1 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/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 (%)
AQ028	521302, 182067	Wells House Road	H	Yes	N	11.5	2.3	44.9	0	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	N	10.6	1.8	44.7	0	100.0
AQ035	521353, 181959	Old Oak Common	H	Yes	N	11.5	2.0	41.2	0	100.0
AQ036	521330, 182041	Old Oak Common	H	Yes	N	9.6	1.7	36.8	0	100.0



Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitors



## Appendix C – Air Quality Monitoring Results

Table 1: NO<sub>2</sub> monitoring locations around highways NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2020 (µg/m<sup>3</sup>)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr <sup>1</sup>	May <sup>1</sup>	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BN2	Lamp post on Du Cane Road	523092, 181264	61	50	No data			37	26						44
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	48	39	No data			36	30						38
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	45	No data	No data			24	22						30
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	62	39	No data			39	27						42
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	Tube missing	40	No data			40	25						35
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	39	34	No data			23	19						29
HS2-000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	No data	36	No data			27	21						28

<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>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.