

December 2023

# Air Quality and Dust Monitoring Monthly Report – December 2023 London Borough of Hammersmith and Fulham

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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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A report prepared by EWCs and MWCCs on behalf of HS<sub>2</sub> 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 Hammersmith and Fulham (LBHF) during November 2023 and December 2023 respectively.
- 1.1.2 Figure 1 and Figure 2 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 <u>www.gov.uk/government/collections/monitoring-the-environmental-</u> <u>effects-of-hs2</u>, 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 worksites, as presented in Appendix A, Figure 1 and Figure 2, include:

#### Old Oak Common Depot

- Mobilisation; and
- New site set up for station works.

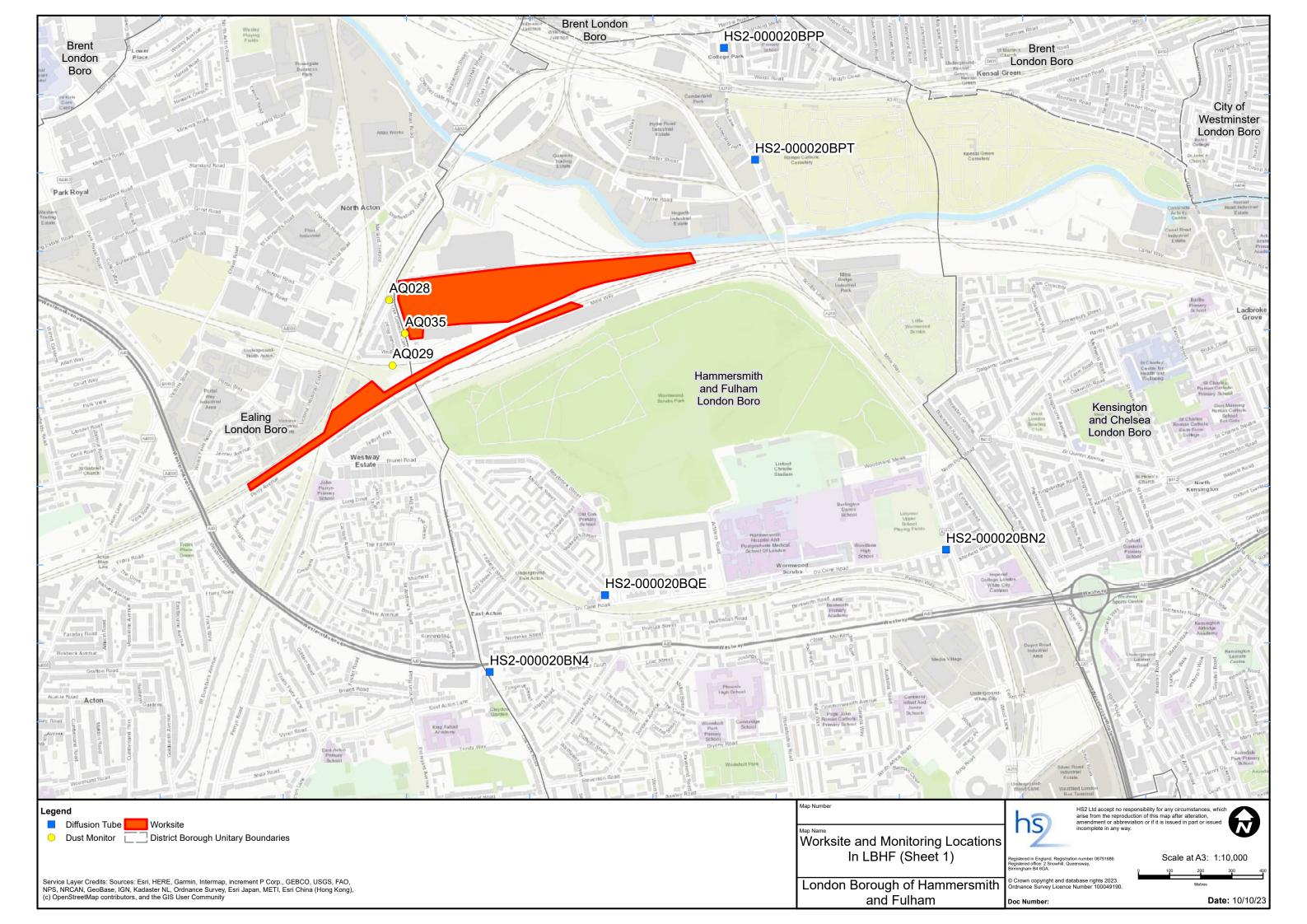
#### Scheme 6

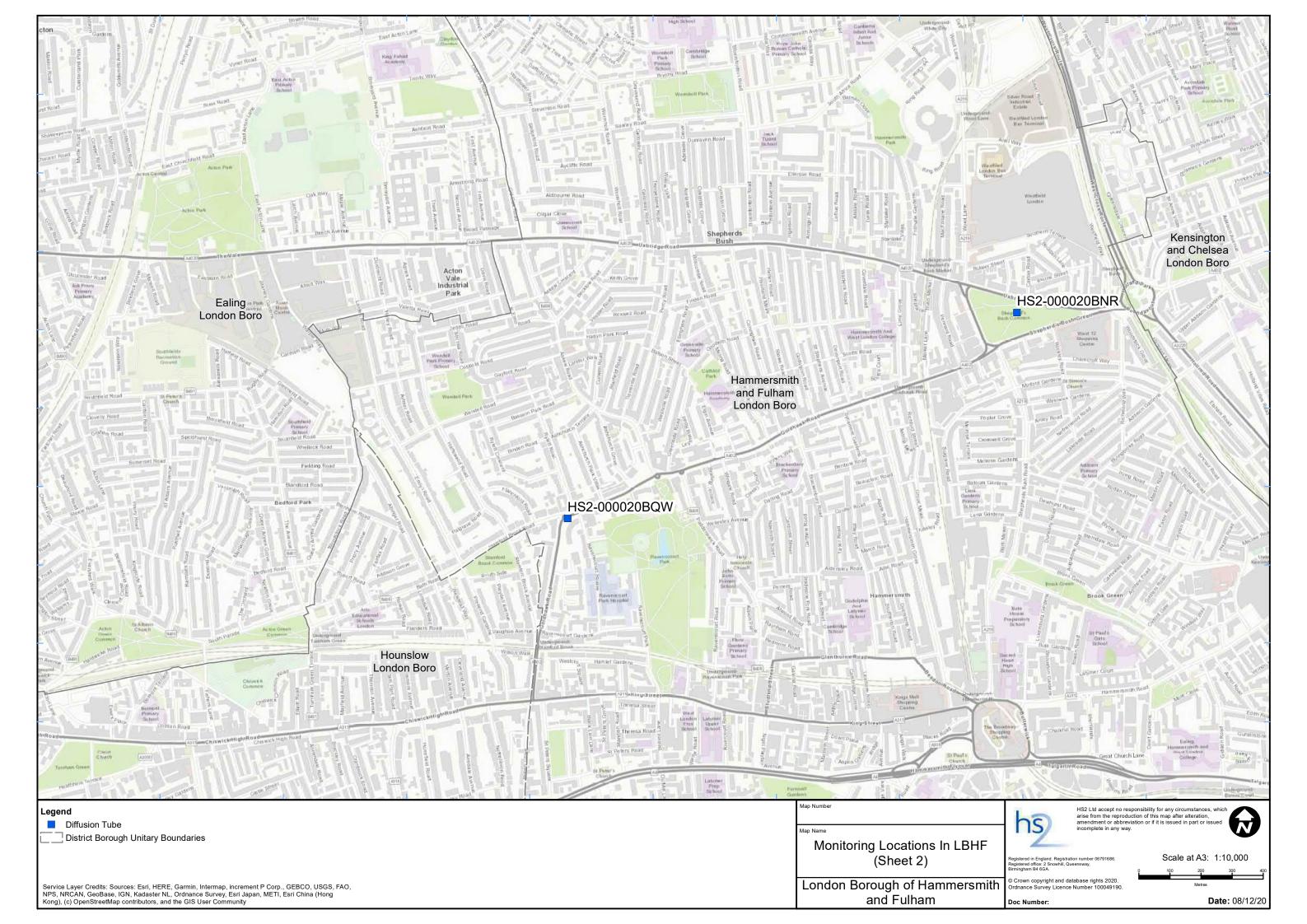
- OLE works; and
- Civil works.
- 1.1.5 Three (3) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented 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 No (0) dust trigger alerts were recorded during the monitoring period (December 2023).

- 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 as 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 2023 running mean.
- 1.1.12 There were no (0) complaints received during the reporting period (December 2023).

### **Appendix A – Worksites and Monitoring Locations**

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





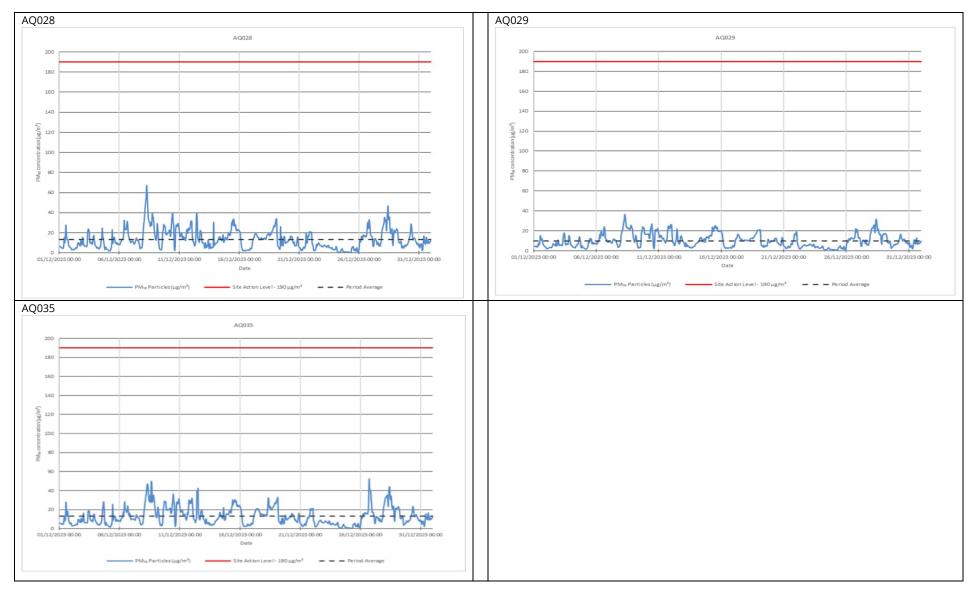
### **Appendix B – Dust Monitoring Results**

Table 1: Dust Monitoring Locations and 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/m <sup>3</sup>	Data capture (%)
AQ028	521302, 182067	Wells House Road	М	Yes	No	13.4	0.4	67.2	0	100.0
AQ029	521453, 182132	Old Oak Common	н	Yes	No	9.8	0.4	36.4	0	100.0
AQ035	521353, 181959	Old Oak Common	Н	Yes	No	13.1	0.4	51.9	0	100.0

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Figure 3: Construction dust 1-hour mean indicative  $PM_{10}$  concentration for all dust monitors



### **Appendix C – Air Quality Monitoring Results**

**Monitoring Site** Coordina Location description Feb Jul Oct Jan Mar Apr Mav lun Aug Sep Nov Dec Mean<sup>1</sup> ID tes (X, Y) HS2-000020BN2 Lamp post on Du 523092. 42 45 37 46 43 37 21 31 34 32 34 39 181264 Cane Road HS2-000020BN4 End of cycle lane sign 521625. 49 50 22 46 41 40 26 33 35 41 28 37 on Old Oak Road 180871 HS2-000020BNR Lamp posts in 523481, Tube Tube Shepherd's Bush 179871 45 43 37 25 20 30 27 38 18 32 Missing Missing Common HS2-000020BPP 522378, Sign post on A219 Tube Tube Scrubs Lane, South of 182877 37 46 38 35 29 29 31 38 44 Missin 36 Missing Harrow Road g HS2-000020BPT Controlled Zone/Zone 522478, 182517 Ends road sign on Tube Tube 47 44 33 35 24 38 46 38 38 34 A219 Scrubs Lane, Missing Missing north of Hythe Road Lamp post next to No HS2-000020BQE 521996, 31 33 25 20 20 20 20 26 29 31 25 24 11 Wulfstan Street 181118 HS2-Lamp post on A402 522037, Tube Tube 45 41 29 25 31 34 21 24 33 31 Goldhawk Road 179209 000020BQW Missing Missing

Table 2: NO<sub>2</sub> monitoring locations around highways NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2023 (µg/m<sup>3</sup>)

<sup>&</sup>lt;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.