

## **Air Quality and Dust Monitoring Monthly Report – July 2018**

**Royal Borough of Kensington and Chelsea**



**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.

High Speed Two (HS2) Limited,  
Two Snowhill  
Snow Hill Queensway  
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: [HS2enquiries@hs2.org.uk](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

A report prepared by Costain Skanska on behalf of HS2 Ltd.

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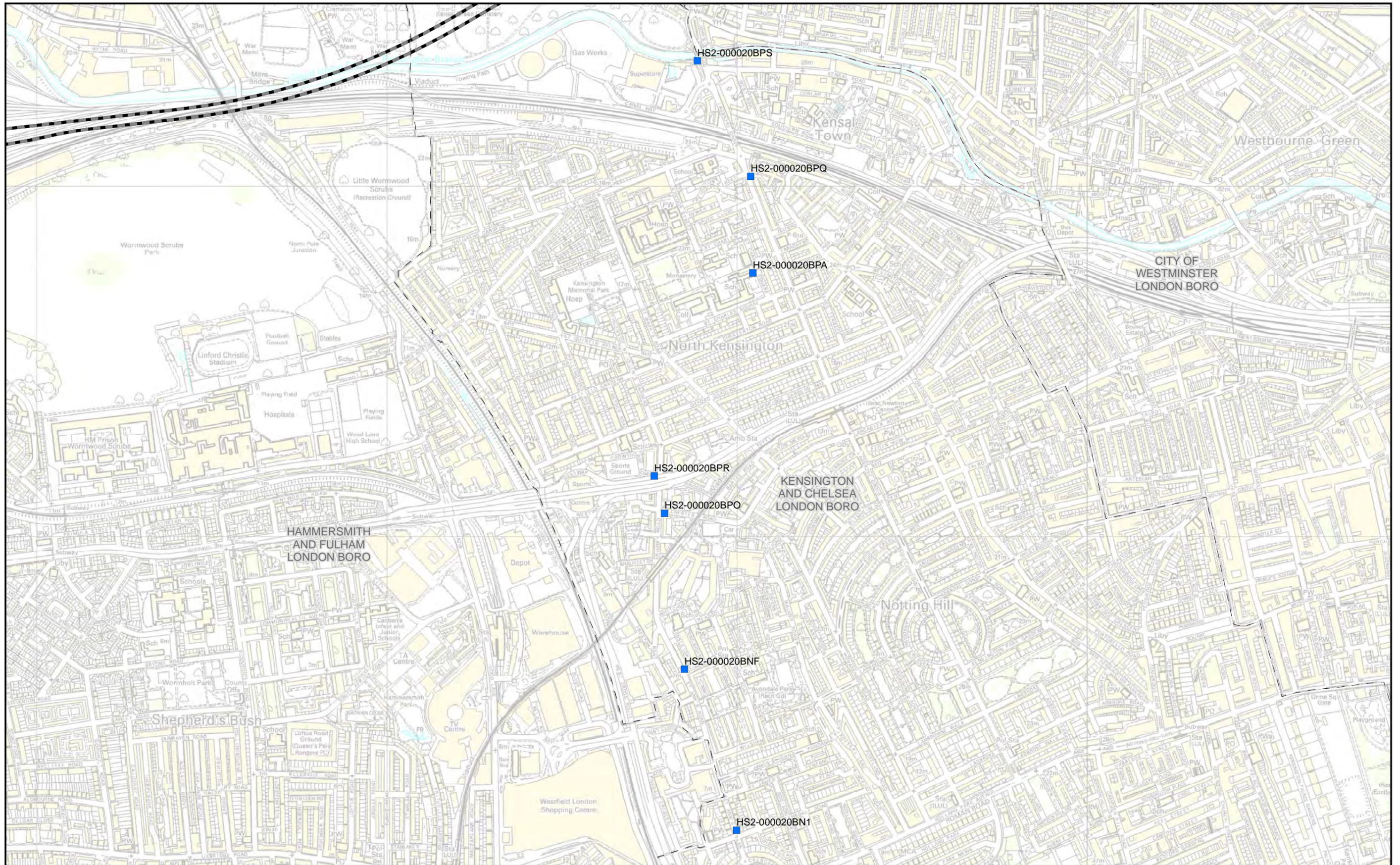


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# Monthly Summary

- 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 monitoring undertaken in the Royal Borough of Kensington and Chelsea (RBKC) during June 2018.
- 1.1.2 Figure 1 in Appendix A indicates the current air quality 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 There are no current worksites located within the RBKC. Therefore, no dust monitoring has been carried out.
- 1.1.5 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) was undertaken at seven (7) locations in June 2018, around highways within the RBKC as part of the management of air quality where significant effects may occur as a result the scheme.
- 1.1.6 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.
- 1.1.7 NO<sub>2</sub> monitoring locations and results are presented in Appendix B, Table 1, together with the 2018 running mean.
- 1.1.8 There were no complaints received, relating to air quality, during this monitoring period.

# Appendix A – Worksites and Monitoring Locations



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

|   |                              |
|---|------------------------------|
| Figure Number                           |                              |
| Figure Name                             | Monitoring locations in RBKC |
| Royal Borough of Kensington and Chelsea |                              |

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Scale at A3: 10,000

## Appendix B – 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 2018 (µg/m<sup>3</sup>)

| Monitoring Site ID | Location description   | Coordinates (X, Y) | Jan          | Feb          | Mar | Apr | May | June | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|--------------------|--|--------------------|--------------|--------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BN1      | Sign post on St Ann's Villas   | 523998, 180160     | 57           | 50           | 51  | 50  | 50  | 41   |     |     |     |     |     |     | 50                |
| HS2-000020BNF      | Unsuitable for long vehicles sign on St Ann's Villas                               | 523849, 180620     | Tube missing | Tube missing | 54  | 47  | 45  | 40   |     |     |     |     |     |     | 47                |
| HS2-000020BPO      | Lamp post off Silchester Road  | 523792, 181066     | 42           | 48           | 42  | 40  | 47  | 34   |     |     |     |     |     |     | 42                |
| HS2-000020BPQ      | Lamp post along Ladbroke Grove, near shops and bus stop at Trevorton Road junction | 524038, 182028     | 43           | Tube missing | 47  | 37  | 42  | 39   |     |     |     |     |     |     | 42                |
| HS2-000020BPR      | Lamp post at junction of Crowthorne Road and Bramley Road                          | 523763, 181172     | Tube missing | 46           | 46  | 41  | 46  | 39   |     |     |     |     |     |     | 44                |
| HS2-000020BPS      | Lamp post by fence on B450 Ladbroke Grove, south of A404 Harrow Road               | 523886, 182358     | 51           | 53           | 54  | 54  | 60  | 40   |     |     |     |     |     |     | 52                |

<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 | June | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|--------------------|--|--------------------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BPA      | Triplicate site at Sion Manning School, St. Charles' square, next to the North Kensington urban background automatic monitoring stations | 524045, 181752     | 40  | 37  | 33  | 30  | 30  | 23   |     |     |     |     |     |     | 32                |