June 2023

# HS2

# Air Quality and Dust Monitoring Monthly Report – June 2023 London Borough of Camden

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A report prepared by EWCs and MWCCs on behalf of HS2 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 Camden (LBC) during May 2023 and June 2023 respectively.
- 1.1.2 Figure 1 to Figure 5 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 works in December 2017 and is expected to be completed by 2025. The current worksites, as presented in Figure 1 to Figure 5, include:

#### Skanska Costain Strabag Joint Venture (SCSjv)

#### Adelaide Road Vent Shaft

- · Piling operations; and
- Groundworks.

#### **Euston Scissor Cut**

- Groundworks;
- · Piling operations; and
- Materials management.

#### **Euston Throat Retained Cut**

- · Groundworks;
- Piling operations; and
- Materials management.

#### Hampstead Road Bridge

• Utilities diversion works.

#### **Euston Cavern**

- Piling operations;
- Groundworks; and
- Materials management.

#### **Mace Dragados Joint Venture (MDjv)**

#### **Utilities North**

 Coburg Street North remedials (kerb reinstatement, backfill and concrete slab feed patches)

#### **Utilities, Non-Constable works**

• Vodafone - Doric Way Duct excavation and Install

#### Interim Taxi Rank

- Completion of north canopy roof;
- Completion of south canopy including roof edge protections and rain screen;
- Eversholt Street signals Siemens pulling cables;
- Surfacing and road markings;
- Resin installed to footpath and entrance; and
- Water main supply testing and chlorination.

#### Maria Fidelis Accommodation Building

- Ceiling reinstatements First Floor to Level 5;
- Wall reinstatements Ground Floor to Level 4;
- MEP First Fix Ground Floor to Third Floor;
- Screeding to Ground Floor completed 30/6/23;
- Continuation of roof plant and MEP install;
- Continuation of parapets and pediments install;
- External corrugated cladding installation to South First Floor;
- External corrugated cladding installed to North and West Elevations; and
- Corrugated cladding to Switch Room and CSC External Area.

#### Maria Fidelis Substructure:

- Landscaping of Magaret Centre Garden;
- Brick wall commencement around Magaret Centre; and
- UKPN West Substation fit out.

#### NTH Western:

- Installation of north concrete blocks;
- Type 1 laid and water drainage install Phase 1; and
- Installation of new BT Duct.

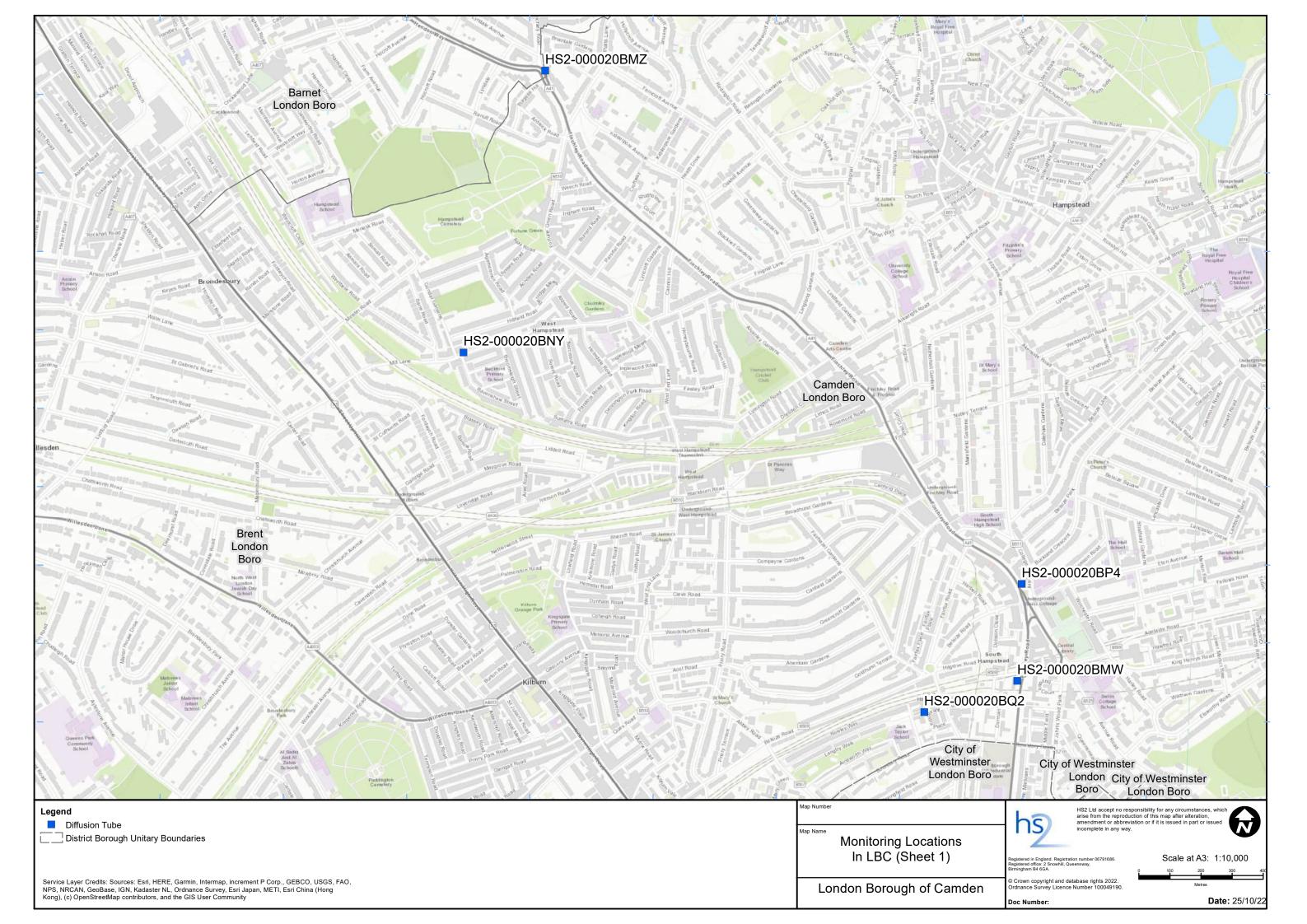
#### TSS:

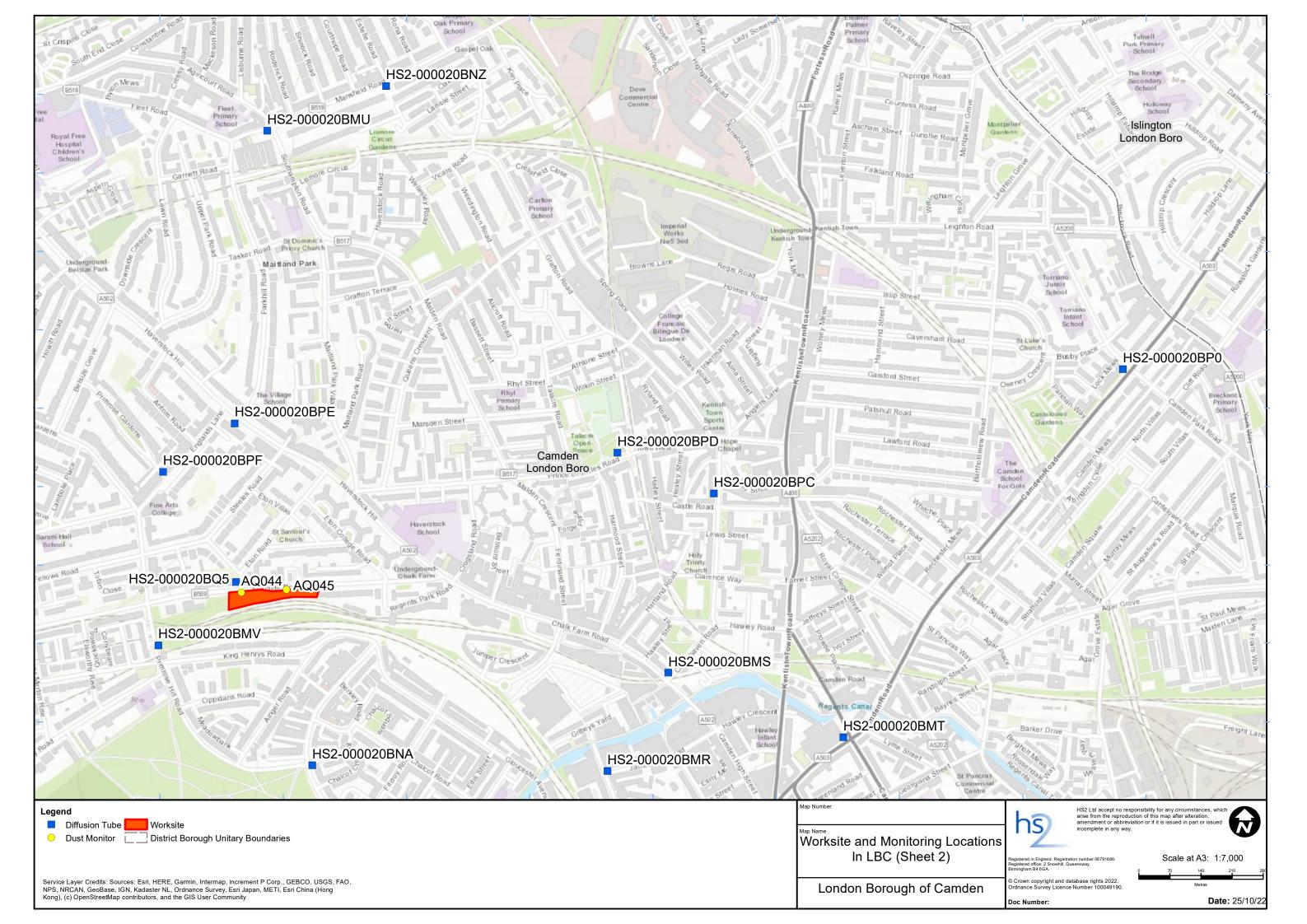
- Level 2 slab poured;
- Level 3 slab poured;
- PPC Stair 2 GF to FL 2 installed;
- Level 4 slab poured;
- Continue fit out of substructure of TSS blockwork, screeding & down pipe install; and
- MEP Works commenced in tunnels brackets and ductwork installation.

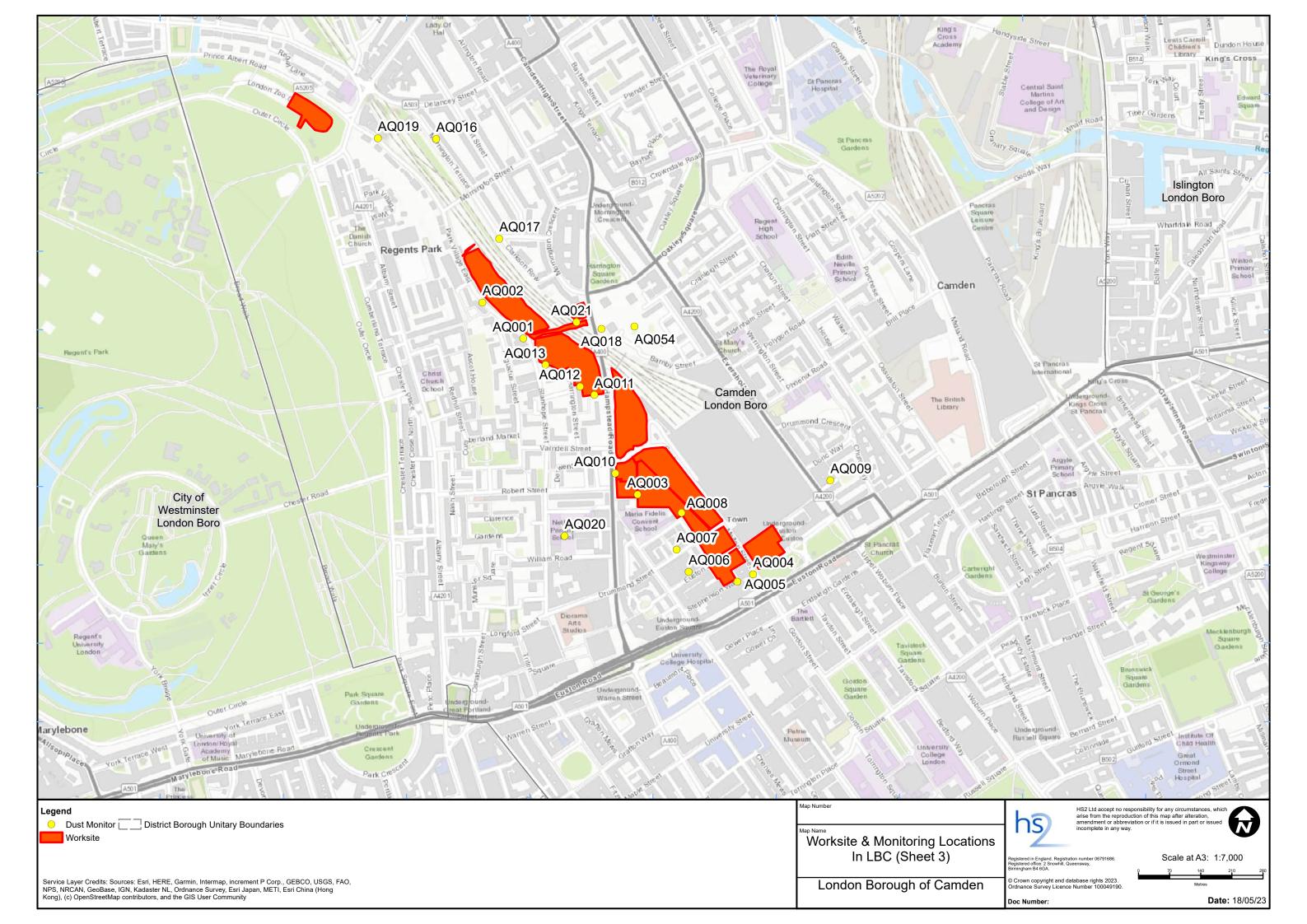
- 1.1.5 Twenty-two (22) dust monitors are installed around worksites, where demolition, groundworks and materials management are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor in Figure 6. 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 Dust trigger alerts were recorded during the monitoring period (June 2023) and are reported in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors in June 2023 due to power supply issues, as well as annual calibration and service.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) is undertaken at sixty-four (64) locations around highways within the LBC as part of the management of air quality where significant effects August occur as a result of the scheme.
- 1.1.11 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.
- 1.1.12 NO<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 3, together with the 2023 running mean.
- 1.1.13 There were no (0) complaints received during this reporting period (June 2023).

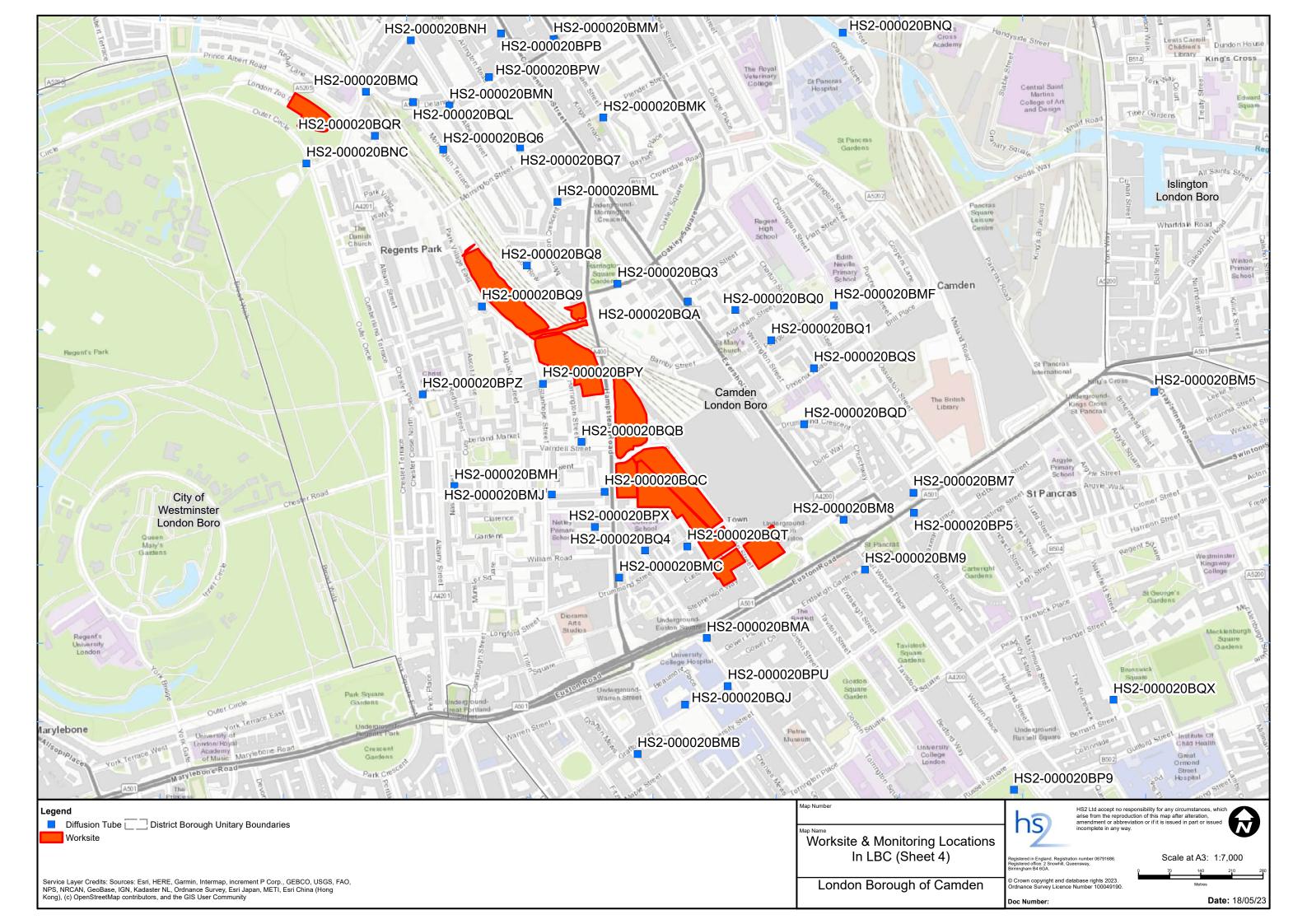
### **Appendix A – Worksites and Monitoring Locations**

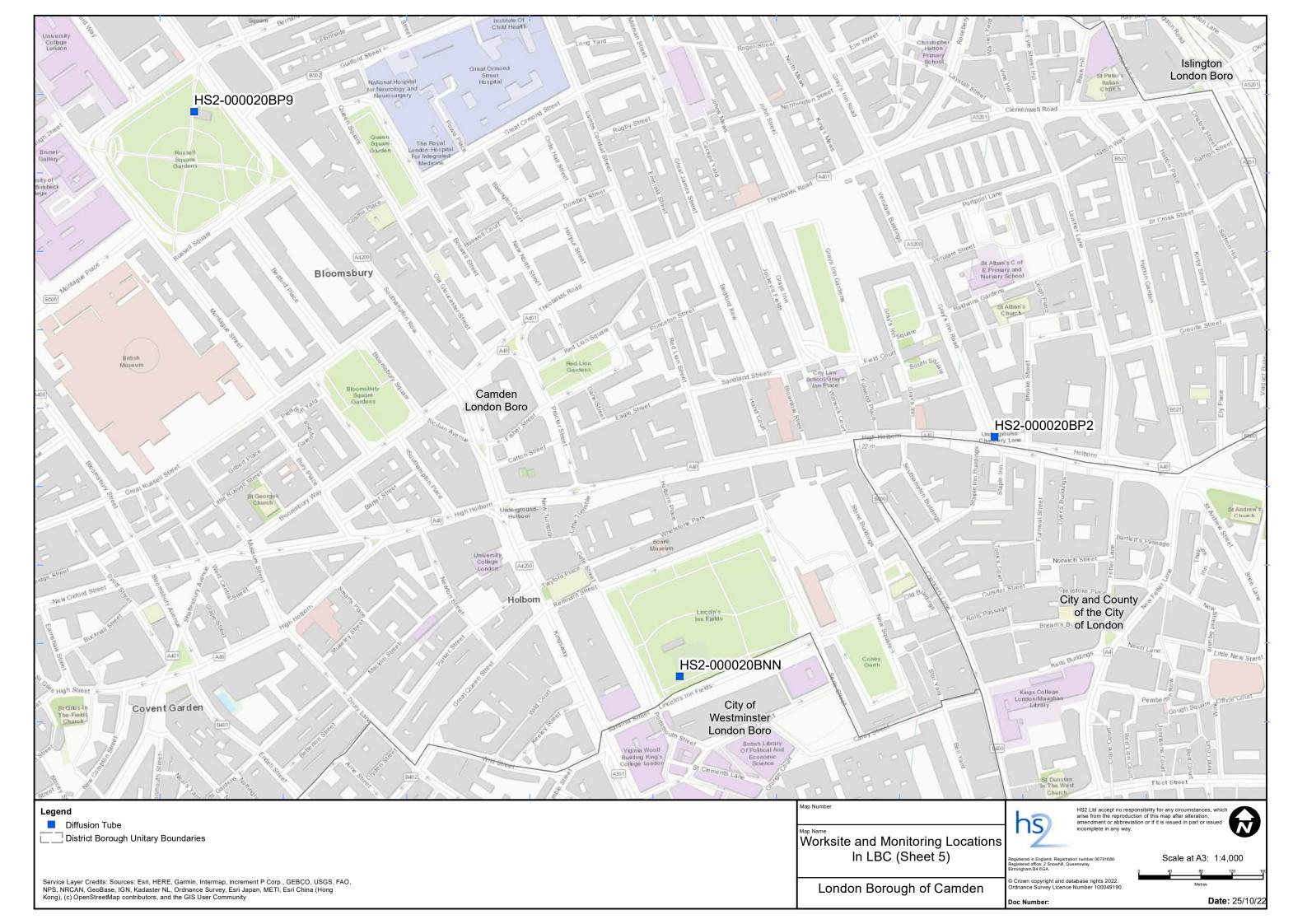
Figure 1 to Figure 5: Worksites and monitoring locations within the LBC











# **Appendix B – Dust Monitoring Results**

Table 1: Dust monitoring locations and June 2023 Results

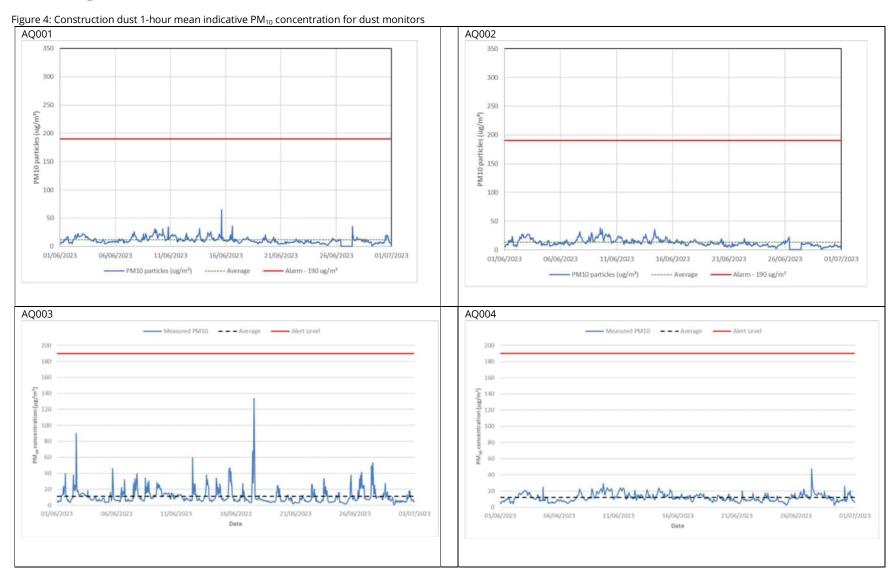
| Monitoring site ID | Coordinates<br>(X,Y) | Location<br>description   | Dust<br>risk<br>rating<br>for<br>site | Monitoring<br>site active<br>during<br>period | Change to<br>site since<br>previous<br>period<br>report | Mean 1-hour PM <sub>10</sub><br>concentration<br>(μg/m³) | Minimum 1-<br>hour PM <sub>10</sub><br>concentration<br>(µg/m³) | Maximum 1-<br>hour PM <sub>10</sub><br>concentration<br>(μg/m³) | Number of<br>1- hour<br>periods<br>exceeding<br>trigger level<br>of 190 µg/m³ | Data capture<br>(%) |
|--------------------|----------------------|---|---------------------------------------|---|---|--|---|---|---|---------------------|
| AQ001              | 529016,<br>183049    | Junction of Park Village East, Stanhope Street and Granby Terrace | М                                     | Yes   | N   | 11.4   | 1.0   | 64.4  | 0   | 96.5                |
| AQ002              | 528924,<br>183130    | Park Village<br>East  | М                                     | Yes   | N   | 12.9   | 0.8   | 38.1  | 0   | 96.5                |
| AQ003              | 529273,<br>182698    | St James'<br>Gardens  | М                                     | Yes   | N/A   | 11.3   | 0.8   | 133.5   | 0   | 100.0               |
| AQ004              | 529533,<br>182519    | Melton Street   | Н                                     | Yes   | N/A   | 12.2   | 2.0   | 47.2  | 0   | 100.0               |
| AQ005              | 529498,<br>182502    | Stephenson<br>Way   | Н                                     | Yes   | N/A   | 12.2   | 1.0   | 64.8  | 0   | 100.0               |
| AQ006              | 529388,<br>182524    | Euston Street   | Н                                     | Yes   | N/A   | 14.0   | 2.4   | 85.8  | 0   | 100.0               |
| AQ007              | 529361,<br>182574    | Drummond<br>Street  | Н                                     | Yes   | N/A   | 7.5  | 0.7   | 55.6  | 0   | 61.7                |
| AQ008              | 529372,<br>182657    | Cobourg<br>Street   | Н                                     | Yes   | N/A   | 20.9   | 2.1   | 165.6   | 0   | 98.2                |
| AQ009              | 529707,<br>182730    | Eversholt<br>Street   | Н                                     | Yes   | N/A   | 11.6   | 1.2   | 280.6   | 2   | 100.0               |
| AQ010              | 529223,<br>182746    | Hampstead<br>Road South   | М                                     | Yes   | N/A   | 14.0   | 2.1   | 88.8  | 0   | 95.1                |
| AQ011              | 529176,<br>182922    | Hampstead<br>Road   | М                                     | Yes   | N   | 13.9   | 1.9   | 395.4   | 1   | 90.5                |

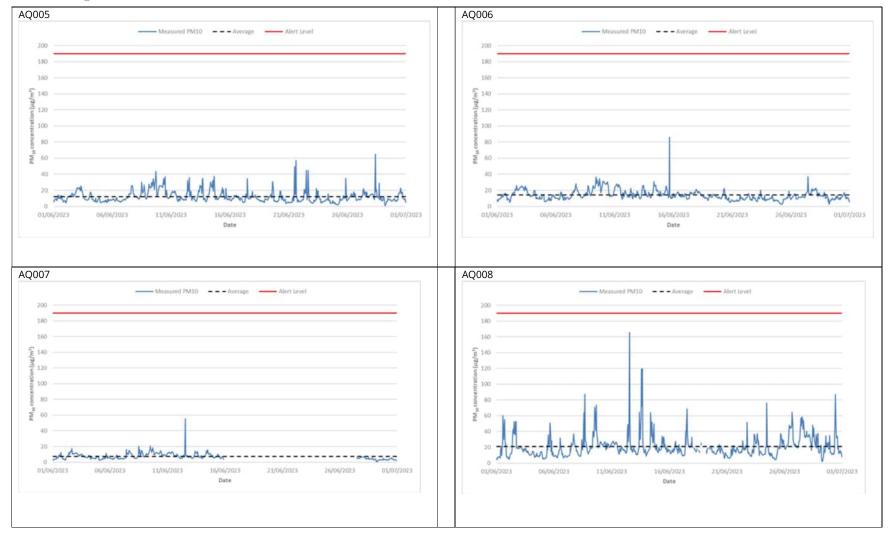
| Monitoring site ID | Coordinates<br>(X,Y) | Location<br>description   | Dust<br>risk<br>rating<br>for<br>site | Monitoring<br>site active<br>during<br>period | Change to<br>site since<br>previous<br>period<br>report | Mean 1-hour PM <sub>10</sub><br>concentration<br>(µg/m³) | Minimum 1-<br>hour PM <sub>10</sub><br>concentration<br>(µg/m³) | Maximum 1-<br>hour PM <sub>10</sub><br>concentration<br>(μg/m³) | Number of<br>1- hour<br>periods<br>exceeding<br>trigger level<br>of 190 µg/m³ | Data capture<br>(%) |
|--------------------|----------------------|---|---------------------------------------|---|---|--|---|---|---|---------------------|
| AQ012              | 529144,<br>182941    | Rear of<br>Coniston<br>House  | М                                     | Yes   | N   | 17.3   | 3.9   | 143.2   | 0   | 90.5                |
| AQ013              | 529066,<br>182990    | Regents Park<br>Estate  | М                                     | Yes   | N   | 9.7  | 2.1   | 58.0  | 0   | 60.1                |
| AQ016              | 528820,<br>183498    | Mornington<br>Terrace North   | М                                     | Yes   | N   | 7.4  | 0.6   | 24.0  | 0   | 96.5                |
| AQ017              | 528962,<br>183274    | Mornington<br>Terrace South   | М                                     | Yes   | N   | 10.7   | 1.7   | 34.6  | 0   | 96.4                |
| AQ018              | 529192,<br>183071    | Hampstead<br>Road North   | М                                     | Yes   | N   | 11.1   | 2.0   | 37.5  | 0   | 96.5                |
| AQ019              | 528689 ,<br>183500   | Park Village<br>East (North)  | М                                     | Yes   | N   | 14.7   | 1.5   | 266.6   | 2   | 96.5                |
| AQ020              | 529109,<br>182605    | Netley School   | n/a                                   | Yes   | N/A   | 12.5   | 1.4   | 43.0  | 0   | 100.0               |
| AQ021              | 529136,<br>183086    | Site compound at the Junction of Hampstead Road & Granby Terrace Bridge | М                                     | Yes   | N   | 11.7   | 3.5   | 47.0  | 0   | 87.1                |
| AQ044              | 527725 ,<br>184369   | Adelaide Road<br>1  | М                                     | Yes   | N   | 14.8   | 2.0   | 192.5   | 1   | 93.2                |
| AQ045              | 527826 ,<br>184375   | Adelaide Road<br>2  | М                                     | Yes   | N   | 14.3   | 4.5   | 52.7  | 0   | 93.3                |
| AQ054              | 529266,<br>183076    | Ampthill<br>Estate,<br>Hampstead<br>Road                                | М                                     | Yes   | N   | 8.5  | 4.6   | 12.7  | 0   | 3.5                 |

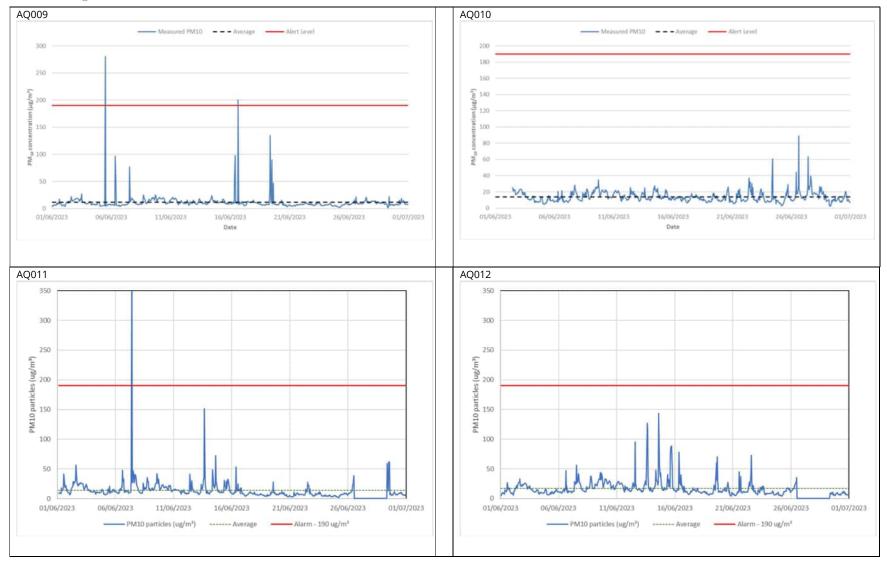
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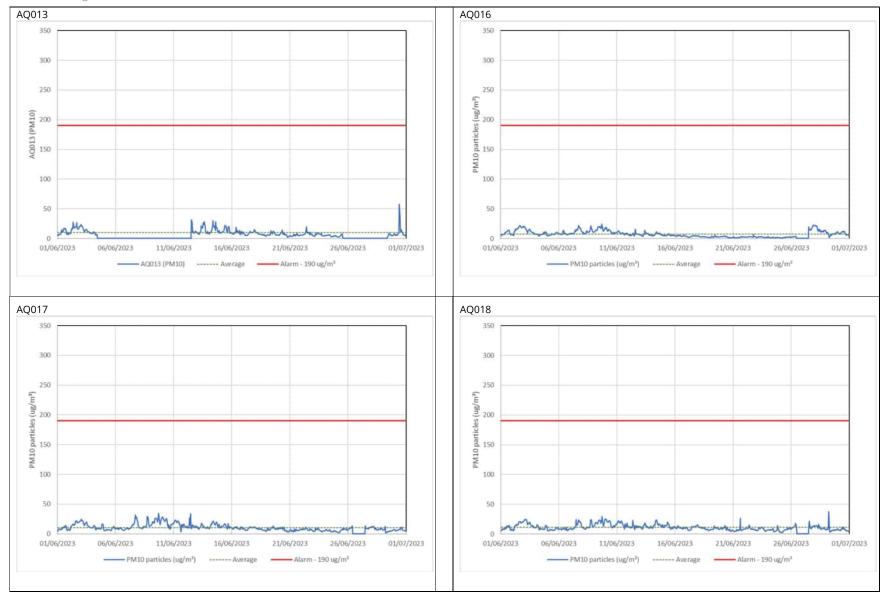
Table 2: Summary of exceedances of trigger level in June 2023

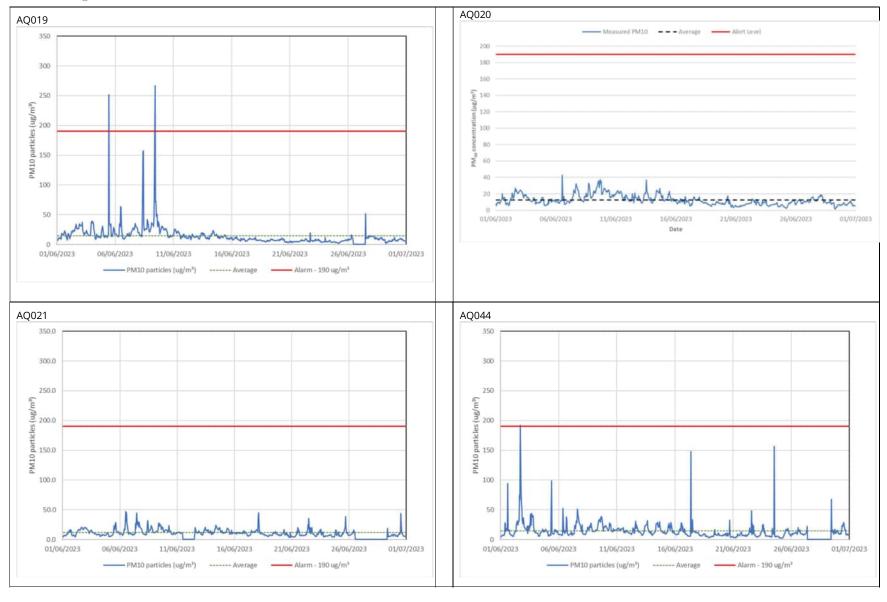
| Monitoring site ID | Period exceeding trigger level   | Investigation  | Outcomes / Resolution / Remedial measures implemented |
|--------------------|--|--|---|
| AQ044              | 02/06/2023<br>16:01 – 17:00; 192.5 μg/m³   | At the time of the trigger alert there were no dusty works underway as the site was shutting down on the Friday afternoon/evening. It is considered the elevated level was due to a temporary power loss to the monitor leaving it operating on the internal battery. This left the monitor's pump and heater with limited power and elevated readings for a short period. AQ045 nearby showed no elevated reading over the same period. | n/a   |
| AQ019              | 05/06/2023<br>10:01 – 11:00; 251.5 μg/m <sup>3</sup><br>09/06/2023<br>09:01 – 10:00; 266.6 μg/m <sup>3</sup> | At the time of the trigger alert there were third party utilities work taking place directly beneath the monitor which is located outside Park Village East Studios.   | n/a   |
| AQ011              | 07/06/2023<br>09:01 – 10:00; 395.4 μg/m <sup>3</sup>   | At the time of the trigger, lifting operations were taking place in the vicinity and the area had already been thoroughly damped down. Given the relatively high reading it is considered the trigger was due to a tiny piece of loose debris within the monitor's inlet and not HS2 works.  | n/a   |



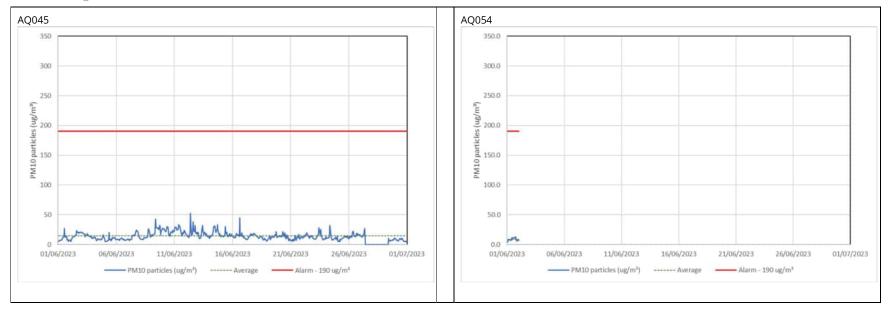








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## **Appendix C – Air Quality Monitoring Results**

Table 3: NO<sub>2</sub> monitoring locations around highways, NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2023 (µg/m³)

| Monitoring<br>Site ID | Location description  | Coordinates<br>(X, Y) | Jan | Feb | Mar | Apr             | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|-----------------------|---|-----------------------|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-<br>000020BM5     | Junction of St<br>Chad's Street and<br>Grays Inn Road         | 530436,<br>182929     | 45  | 46  | 37  | 40              | 36  |     |     |     |     |     |     |     | 41                |
| HS2-<br>000020BM7     | Chalton Street  | 529894,<br>182702     | 50  | 53  | 48  | 41              | 36  |     |     |     |     |     |     |     | 46                |
| HS2-<br>000020BM8     | Junction of Euston<br>Square and<br>Grafton Place             | 529737,<br>182641     | 48  | 62  | 41  | Tube<br>Missing | 42  |     |     |     |     |     |     |     | 48                |
| HS2-<br>000020BM9     | Junction of<br>Endsleigh Gardens<br>and Upper<br>Woburn Place | 529785,<br>182529     | 43  | 50  | 25  | 47              | 49  |     |     |     |     |     |     |     | 43                |
| HS2-<br>000020BMA     | Junction of Euston<br>Road and Gower<br>Street                | 529429,<br>182375     | 51  | 59  | 37  | Tube<br>Missing | 37  |     |     |     |     |     |     |     | 46                |
| HS2-<br>000020BMB     | Whitfield Street  | 529273,<br>182114     | 38  | 43  | 33  | 33              | 29  |     |     |     |     |     |     |     | 35                |
| HS2-<br>000020BMC     | Hampstead Road  | 529232,<br>182511     | 56  | 69  | 63  | 52              | 52  |     |     |     |     |     |     |     | 58                |
| HS2-<br>000020BMF     | Junction of<br>Polygon Road and<br>Ossulston Street           | 529715,<br>183123     | 36  | 34  | 24  | 28              | 30  |     |     |     |     |     |     |     | 30                |
| HS2-<br>000020BMH     | Nash Street   | 528861,<br>182717     | 37  | 30  | 24  | 24              | 21  |     |     |     |     |     |     |     | 27                |
| HS2-000020BMJ         | Junction on Robert<br>Street and<br>Stanhope Street           | 529080,<br>182698     | 37  | 37  | 14  | 29              | 25  |     |     |     |     |     |     |     | 28                |

<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.

| Monitoring<br>Site ID | Location description  | Coordinates<br>(X, Y) | Jan             | Feb | Mar             | Apr             | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|-----------------------|---|-----------------------|-----------------|-----|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-<br>000020BMK     | Junction of Plender Street and Bayham Street                | 529196,<br>183546     | 47              | 52  | 38              | 40              | 38  |     |     |     |     |     |     |     | 43                |
| HS2-<br>000020BML     | Junction of<br>Arlington Road<br>and Mornington<br>Crescent | 529093,<br>183356     | 35              | 37  | Tube<br>Missing | 26              | 25  |     |     |     |     |     |     |     | 31                |
| HS2-<br>000020BMM     | Junction of<br>Bayham Street<br>and Pratt Street            | 529084,<br>183722     | 57              | 59  | 35              | 39              | 32  |     |     |     |     |     |     |     | 44                |
| HS2-<br>000020BMN     | Junction of<br>Delancey Street<br>and Albert Street         | 528850,<br>183573     | 41              | 46  | 23              | 24              | 21  |     |     |     |     |     |     |     | 31                |
| HS2-<br>000020BMQ     | Junction of<br>Parkway and<br>Delancey Street               | 528662,<br>183604     | 42              | 42  | 30              | Tube<br>Missing | 35  |     |     |     |     |     |     |     | 37                |
| HS2-<br>000020BMR     | Junction of Oval<br>Road and<br>Jamestown Road              | 528548,<br>183967     | 32              | 38  | 27              | 28              | 25  |     |     |     |     |     |     |     | 30                |
| HS2-<br>000020BMS     | Junction of Chalk<br>Farm Road and<br>Castlehaven Road      | 528685,<br>184188     | 43              | 45  | 36              | 35              | 38  |     |     |     |     |     |     |     | 39                |
| HS2-<br>000020BMT     | Junction of<br>Camden Road and<br>Camden Street             | 529079,<br>184043     | 48              | 50  | 31              | 38              | 40  |     |     |     |     |     |     |     | 42                |
| HS2-<br>000020BMU     | Junction of Southampton Road and Fleet Road                 | 527783,<br>185407     | 44              | 45  | 38              | 36              | 33  |     |     |     |     |     |     |     | 39                |
| HS2-<br>000020BMV     | Primrose Hill Road  | 527538,<br>184250     | 35              | 44  | 29              | 25              | 25  |     |     |     |     |     |     |     | 31                |
| HS2-<br>000020BMW     | Junction of<br>Finchley Road and<br>Hilgrove Road           | 526619,<br>184081     | Tube<br>Missing | 50  | 33              | 41              | 42  |     |     |     |     |     |     |     | 41                |

| Monitoring        | Location  | Coordinates       | Jan | Feb | Mar             | Apr             | May             | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|-------------------|---|-------------------|-----|-----|-----------------|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-------------------|
| Site ID           | description   | (X, Y)            |     |     |                 |                 |                 |     | _   |     | ·   |     |     |     |                   |
| HS2-<br>000020BMZ | Junction of<br>Finchley Road and<br>Hendon Way              | 525102,<br>186042 | 71  | 67  | 53              | 62              | 53              |     |     |     |     |     |     |     | 61                |
| HS2-000020BNA     | Junction of<br>Regent's Park<br>Road and Rothwell<br>Street | 527884,<br>183980 | 36  | 37  | 25              | 25              | 19              |     |     |     |     |     |     |     | 28                |
| HS2-000020BNC     | Junction of Outer<br>Circle and<br>Gloucester Gate          | 528528,<br>183443 | 27  | 27  | 21              | 21              | 21              |     |     |     |     |     |     |     | 23                |
| HS2-<br>000020BNH | Junction of<br>Parkway and<br>Albert Street                 | 528763,<br>183720 | 32  | 40  | 30              | 29              | 27              |     |     |     |     |     |     |     | 32                |
| HS2-<br>000020BNN | Lincoln's Inn Fields  | 530744,<br>181308 | 36  | 36  | 24              | Tube<br>Missing | 21              |     |     |     |     |     |     |     | 29                |
| HS2-<br>000020BNQ | Camley Street   | 529735,<br>183737 | 25  | 41  | 26              | 29              | 24              |     |     |     |     |     |     |     | 29                |
| HS2-000020BNY     | Junction of Mill<br>Lane and Hillfield<br>Road              | 524839,<br>185136 | 35  | 32  | Tube<br>Missing | 32              | Tube<br>Missing |     |     |     |     |     |     |     | 33                |
| HS2-000020BNZ     | Mansfield Road  | 528050,<br>185508 | 40  | 44  | 27              | 23              | 19              |     |     |     |     |     |     |     | 31                |
| HS2-000020BP0     | Junction of<br>Camden Road and<br>Torriano Avenue           | 529708,<br>184871 | 46  | 56  | 42              | 43              | 40              |     |     |     |     |     |     |     | 45                |
| HS2-000020BP2     | Junction of Grays<br>Inn Road and<br>Holborn                | 531149,<br>181616 | 41  | 40  | 32              | 30              | 27              |     |     |     |     |     |     |     | 34                |
| HS2-000020BPB     | Camden High<br>Street                                       | 528966,<br>183735 | 60  | 65  | 40              | 49              | 50              |     |     |     |     |     |     |     | 53                |
| HS2-000020BPC     | Castlehaven Road  | 528788,<br>184591 | 39  | 39  | 30              | 26              | 21              |     |     |     |     |     |     |     | 31                |
| HS2-000020BPD     | Prince of Wales<br>Road                                     | 528571,<br>184683 | 31  | 35  | 16              | 27              | 19              |     |     |     |     |     |     |     | 26                |
| HS2-000020BPE     | Haverstock Hill   | 527710,<br>184749 | 36  | 39  | 27              | 24              | 22              |     |     |     |     |     |     |     | 30                |

| Monitoring        | Location  | Coordinates       | Jan | Feb             | Mar | Apr             | May             | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|-------------------|---|-------------------|-----|-----------------|-----|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-------------------|
| Site ID           | description   | (X, Y)            |     |                 |     |                 |                 |     | •   |     |     |     |     |     |                   |
| HS2-000020BPF     | Junction of<br>Primrose Gardens<br>and England's<br>Lane  | 527549,<br>184640 | 42  | 42              | 33  | 27              | 25              |     |     |     |     |     |     |     | 34                |
| HS2-000020BPU     | Junction of Gower<br>Street and Grafton<br>Way            | 529476,<br>182267 | 51  | 47              | 36  | Tube<br>Missing | 34              |     |     |     |     |     |     |     | 42                |
| HS2-<br>000020BPW | Junction of<br>Delancey Street<br>and Arlington<br>Road   | 528939,<br>183637 | 40  | 45              | 30  | 28              | 26              |     |     |     |     |     |     |     | 34                |
| HS2-000020BPX     | Netley Street   | 529177,<br>182625 | 32  | Tube<br>Missing | 21  | 31              | 30              |     |     |     |     |     |     |     | 29                |
| HS2-000020BPY     | Stanhope Street   | 529060,<br>182947 | 31  | 37              | 19  | 25              | 19              |     |     |     |     |     |     |     | 26                |
| HS2-000020BPZ     | Albany Street   | 528790,<br>182923 | 27  | 40              | 25  | 27              | 25              |     |     |     |     |     |     |     | 29                |
| HS2-000020BQ0     | Werrington Street   | 529493,<br>183113 | 34  | 35              | 19  | 24              | 20              |     |     |     |     |     |     |     | 26                |
| HS2-000020BQ1     | Polygon Road  | 529574,<br>183045 | 30  | 36              | 22  | 25              | 23              |     |     |     |     |     |     |     | 27                |
| HS2-000020BQ2     | Alexandra Place   | 526320,<br>183980 | 32  | 35              | 23  | 24              | 20              |     |     |     |     |     |     |     | 27                |
| HS2-000020BQ3     | Harrington Square   | 529228,<br>183172 | 42  | 38              | 26  | 33              | 41              |     |     |     |     |     |     |     | 36                |
| HS2-000020BQ4     | Junction of North<br>Gower Street and<br>Starcross Street | 529290,<br>182572 | 43  | 41              | 28  | 26              | 27              |     |     |     |     |     |     |     | 33                |
| HS2-000020BQ5     | Adelaide Road   | 527713,<br>184392 | 35  | 41              | 17  | Tube<br>Missing | 25              |     |     |     |     |     |     |     | 29                |
| HS2-000020BQ6     | Mornington<br>Terrace                                     | 528836,<br>183474 | 34  | 34              | 26  | 25              | 22              |     |     |     |     |     |     |     | 28                |
| HS2-000020BQ7     | Arlington Road  | 529009,<br>183479 | 33  | 35              | 24  | 25              | Tube<br>Missing |     |     |     |     |     |     |     | 29                |
| HS2-000020BQ8     | Clarkson Row  | 529024,<br>183213 | 39  | 39              | 25  | 25              | Tube<br>Missing |     |     |     |     |     |     |     | 32                |

| Monitoring<br>Site ID | Location<br>description  | Coordinates<br>(X, Y) | Jan | Feb | Mar             | Apr             | May             | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|-----------------------|--|-----------------------|-----|-----|-----------------|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BQ9         | Park Village East  | 528923,<br>183121     | 30  | 33  | 17              | 22              | 20              |     |     |     |     |     |     |     | 24                |
| HS2-<br>000020BQA     | Eversholt Street   | 529386,<br>183132     | 52  | 45  | 34              | 38              | 35              |     |     |     |     |     |     |     | 41                |
| HS2-<br>000020BQB     | Junction of<br>Harrington Street<br>and Varndell<br>Street                                   | 529147,<br>182816     | 30  | 34  | 27              | 24              | 21              |     |     |     |     |     |     |     | 27                |
| HS2-<br>000020BQC     | Junction of Robert<br>Street and<br>Hampstead Road   | 529199,<br>182704     | 40  | 40  | 33              | 25              | 34              |     |     |     |     |     |     |     | 34                |
| HS2-<br>000020BQD     | Drummond<br>Crescent   | 529648,<br>182856     | 38  | 33  | Tube<br>Missing | Tube<br>Missing | 31              |     |     |     |     |     |     |     | 34                |
| HS2-000020BQJ         | Grafton Way  | 529380,<br>182225     | 56  | 56  | 38              | 34              | 36              |     |     |     |     |     |     |     | 44                |
| HS2-000020BQL         | Delancey Street  | 528768,<br>183581     | 46  | 50  | Tube<br>Missing | 34              | 31              |     |     |     |     |     |     |     | 40                |
| HS2-<br>000020BQR     | Lamp post on Park<br>Village East  | 528682,<br>183505     | 36  | 40  | 26              | 29              | Tube<br>Missing |     |     |     |     |     |     |     | 33                |
| HS2-000020BQS         | Opposite Maria<br>fidelis school on<br>Phoenix Road  | 529670,<br>182982     | 37  | 36  | 25              | 26              | 23              |     |     |     |     |     |     |     | 30                |
| HS2-000020BQT         | Drummond Street  | 529385,<br>182581     | 42  | 46  | 29              | 31              | 28              |     |     |     |     |     |     |     | 35                |
| HS2-000020BQX         | Lamp post on<br>Brunswick Square   | 530344,<br>182236     | 44  | 46  | 32              | 30              | 24              |     |     |     |     |     |     |     | 35                |
| HS2-000020BP4         | Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station | 526633,<br>184392     | 51  | 54  | 45              | 42              | 47              |     |     |     |     |     |     |     | 48                |

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| Monitoring<br>Site ID | Location description   | Coordinates<br>(X, Y) | Jan | Feb | Mar | Apr              | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean <sup>1</sup> |
|-----------------------|--|-----------------------|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BP5         | Triplicate site next<br>to the Euston<br>Road roadside<br>automatic<br>monitoring<br>stations      | 529895,<br>182657     | 46  | 64  | 59  | Tubes<br>Missing | 59  |     |     |     |     |     |     |     | 57                |
| HS2-000020BP9         | Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station | 530120,<br>182034     | 39  | 40  | 30  | 30               | 27  |     |     |     |     |     |     |     | 33                |