

Air Quality and Dust Monitoring Monthly Report – September 2024 **Buckinghamshire** Council



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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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 HighSpeed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken in the Buckinghamshire Council (BC) during September 2024.
- 1.1.2 Figures 1-7 in Appendix A present the current worksites together with the 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, 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, Figures 1-7, include:

CVV LTP1 worksite

- North Embankment Compound: compound operation;
- DWSC Compound: compound operation;
- Haul Road and Jetty Maintenance – River Colne to GUC: operation and maintenance;
- Haul Road and Jetty Maintenance – GUC to Harvil Road: haul road and jetty maintenance;
- ATFS: site preparation, installation of ducts and earthworks, bulk earthworks fill, permanent drainage, soiling and seeding, ATFS access road construction;
- Pumping Water Management: pumping water management;
- Satellite Welfares;
- Generator Farms;
- South Abutment: earthworks, South Abutment construction stage 2, South Abutment construction stage 2, South Abutment construction stage 2 – earthworks, yard supporting activities, soiling and seeding works, embankment FRC works;
- Environmental Maintenance;
- Stockpiling Activity HOAC: stockpile of material coming from other sites;
- Deck Finishes Logistics: preparation and operation of storage yards and installation of below deck access provision, traffic management on the deck surface, installation of parapets, noise barriers, troughs, pipes, steel works and other minor material to the storage yards and deck, installation of access at the top of the deck (HAKI stairs) and finishes support plan;
- Deck Finishes – On-deck Construction: noise barrier installation, north abutment works, deck waterproofing and SFRC slab construction;
- Deck Finishes – In-deck Construction: structural health monitoring;
- Landscaping: advanced works including removal of cofferdam, early earthworks including ground profiling and cut, initial ground drainage including manhole chamber,

early soil placement, hardstanding removal and tree removal & vegetation clearance;
and

- Jetty Removal and associated earthworks: Earthworks excavation, backfill, and landscaping, jetty removal, cutting piles and steelworks.

Chalfont St Peter Vent Shaft

- General Site Activities;
- Road Maintenance Works;
- Connection to Tunnels; and
- Building Trades: internal works including steel and zinc cladding.

Amersham Vent Shaft

- General Site Activities;
- Tunnel Connections;
- External Works Phases 1&2;
- Headhouse Superstructure Concrete Works;
- Precast Boundary Wall:
- Internal Works;
- Steel Works and Zinc Cladding; and
- MEP Works.

Chalfont St Giles Vent Shaft

- General Site Activities;
- Road Maintenance Works;
- External Works Phase 2;
- Building Trades: brickworks and internal works; and
- Demobilisation.

Little Missenden Vent Shaft

- General site activity;
- Tunnel Connection;
- Internal Works;
- Steel Works and Cladding; and
- External Works – Phase 1 and Phase 2.

Chesham Vent Shaft

- General site activity;
- Ground Level Works: headhouse ATS concrete works and external works;
- Building Trades: External works; and
- Zinc and Cladding Works.

North Portal work site

- General Plant: Site Activities;
- Building Platform;
- Tracks Platform;
- Piling Platform Reinstatement: scraping/hardstanding/earthworks and dismantling piling platforms;
- Porous Portal Structure: Construct reinforced concrete frame and concrete works;
- TBM dismantling portal and compound works;
- North Portal Building; and
- Batching Plant installation & operation.

South Heath

- General Plant: Site Activities;
- General Earthworks and Drainage;
- Construction and Installation of Utilities;
- Construction of the Great Missenden Compound;
- Havenfield Wood Drop Inlet Culvert Excavation and Installation;
- GMI/2 and GMI/12 Overbridge excavation and construction;
- Ground Investigation Works; and
- Site Access Road and Mass Haul Route construction, utilisation, and maintenance.

North Chilterns Area

Grimms Ditch

- HERDS works/survey
- Earthworks (hauling of materials to conveyer).

Chesham Lane, Wendover Bus 55

- Earthworks (hauling of material)
- Dewatering across site.

Ellesborough Road

- Ellesborough Road cricket club demolition.

Nash Lee Road, Nash Lee Lane

- Pre-grouting and Piling for Nash Lee overbridge pier piles
- De-vegetation works across works area
- Dewatering across site
- NLOB – Construction of the pile cap on the West
- Earthworks (movement of structureless chalk going to AA)
- Stokebrook 2B Diversion
 - Connection of the MillHouseNorth with the stokebrook
 - Excavated stabilised material and stone to below v ditch invert level
 - Backfilled excavated area with blue clay up to ground level and compacted

- Stokebrook Repairs
 - Repaired banks destroyed by flooding last week
 - Backfilling and compacting clay with the excavator
 - Placing new cocomattng.

Bacombe Lane

- Earthworks (dig for shaft 2 Grove Farm Culvert).
- Construction of working platform for GFC shaft 2
- Earthworks (Hauling of materials)
- De-vegetation across site
- Excavation for Thames Water mains diversion
- Ellesborough Rd bank strip. (Bacombe Hill)
- Excavation at Ellesborough road (Ellesborough embankment reduction) for Bacombe Lane link Road.
- Tarmacking of Bacombe Lane passing bay.
- 33kV diversion, excavate to expose full length of cable run on Bacombe hill in preparation of removal.

Grove Farm

- Earthworks (Hauling of materials)
- De-vegetation across site.

Small Dean Viaduct

- Scabbing on abutment 7.
- Installation of neoprene on deck
- Installation of scaffold and edge protection on the deck
- Delivery of precast slabs
- Abutments pour A0
- Abutment shelf A7 pour
- Piling at pier 2
- Working platform install at Pier 2
- Welding of deck
- Stone platforms install
- Steel rebar prefabrication
- Steel fixing at A0, and A7
- Bearing plinths P6 pour.

Wendover Town

- Pre-grouting for Slurry Wall
- Installation of Slurry Wall
- Installation of Slurry Wall extension platform.
- V-ditch lining throughout site
- Site Access Road relocation, repair works, and V-Ditch Excavation

- Vegetation clearance
- Batching plant maintenance.

Calvert Area

Quainton

- Earthworks - Ongoing
- Platform for storage – Completed
- Carpark extension – Ongoing.

Woodlands

- Adams Accommodation underbridge – construction of steel reinforcement cages for wing walls.
- River Ray diversion temporary works.
- Aggregate deliveries along the SAR.

FCC / School Hill (Calvert)

- School Hill batching plant – production of concrete.
- School Hill culvert – waterproofing and technical backfill.
- School Hill Overbridge – dig and replace (D&R) under structure and piling platform completed. Excavation and technical backfill.
- Calvert Green overbridge – FRC works.
- Aggregate deliveries along the site access road (SAR).
- Calvert Cutting earthworks – drainage and general maintenance activities.
- CBGM batching plant – production of CBGM.

Other works ongoing in Calvert not within proximity (greater than 1km) to dust monitors include:

- West Street overbridge
- Portway culvert
- Perry Hill overbridge
- EWR culvert
- IMD West culvert
- IMD East Culvert
- Addison Road highway
- Shepherds Furze earthworks (stockpile maintenance)
- Shepherds Furze culvert
- MCJ4 chord earthworks
- Infrastructure maintenance depot (IMD) earthworks
- Secant retaining wall
- Bat mitigation structure
- SCL/13 overbridge
- FCC Cell 6 earthworks (stockpile maintenance)
- FCC Access Road Retaining Wall

- Sheephouse Wood North culvert
- Greatmoor no. 4 culvert and CAG2 underbridge
- Megaditch retaining wall
- Greatmoor no. 3 culvert
- GUN28 overbridge
- QUA36 overbridge
- Hills farm earthworks (stockpile maintenance)
- Edgcott Road overbridge
- QUA26 Underbridge
- Woods drop inlet culvert
- Doddershall Embankment earthworks
- Doddershall No. 6 and No. 7 Culvert
- Quainton cutting
- QUA28 overbridge.

Twyford to Greatworth

School End

School End Overbridge:

- West Wingwall ½ concrete.
- Emj panel and paratop installation (middle section)
- Reinforcement works in middle slab

School End Highway Realignment:

- Bulk excavation (west)
- Devegetation preparation.

Chetwode Cutting:

- Drainage layer installation.

Turweston North

- Hauling 7E2
- Duo crushing and screening
- Turweston Green Overbridge construction
- Turwston Viaduct Construction
- Excavation.

Twyford

- Twyford East Culvert- WC diversion bulk dig.
- Padbury Brook dig to formation level, placement of rip rap and coco bn.
- Haul road and SAR maintenance.

Hermitage

CHW18 Overbridge:

- Welding shoes of the paratops
- Paratop installation
- Reinforcement works of the middle slab

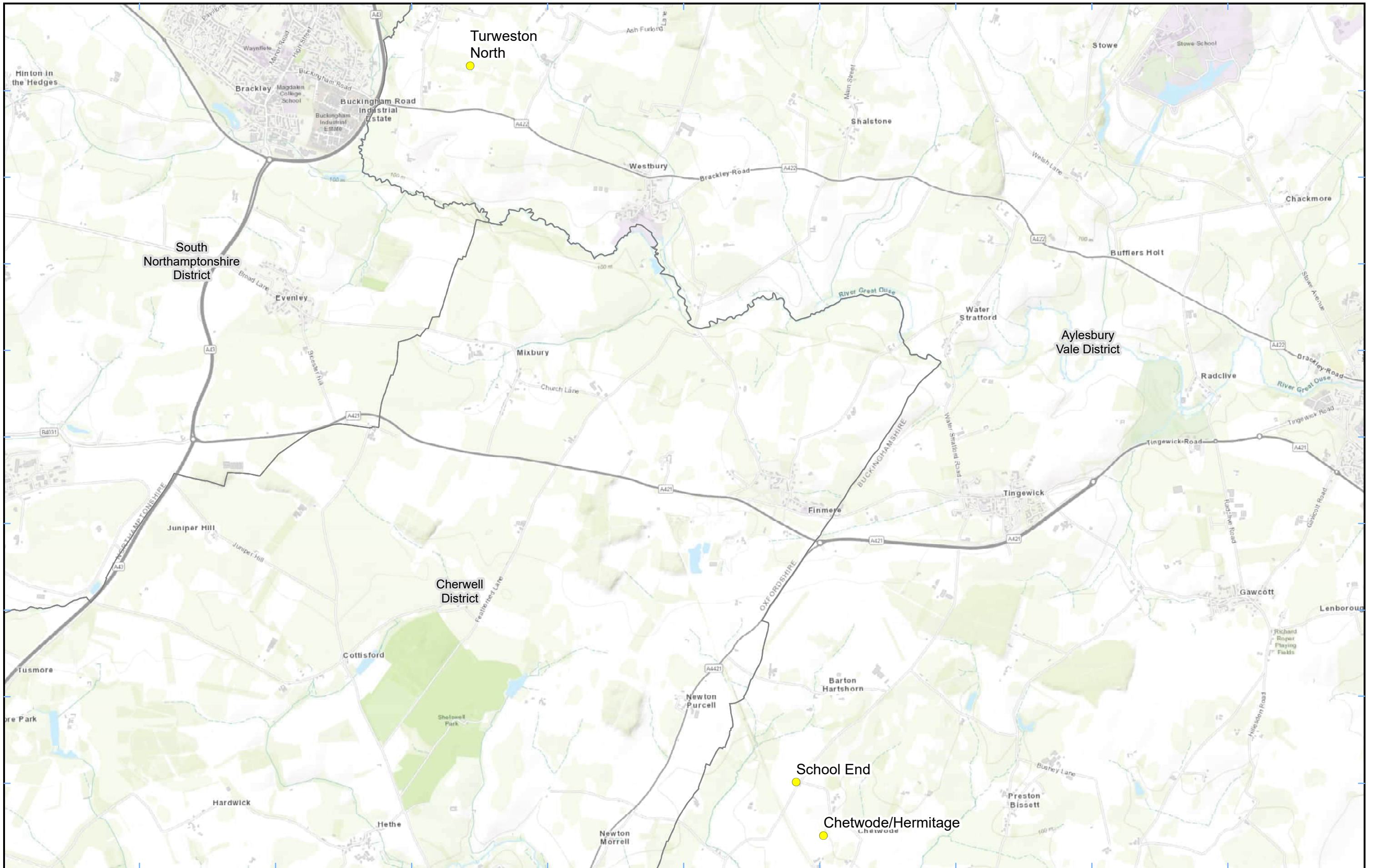
CHW18 Highways:

- Deveg works (east).

- 1.1.5 Thirty-three (33) dust monitors are installed around these worksites, where works are underway. These sites returned a medium 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 8. 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 PM₁₀ concentrations of 190 µg/m³, measured as a 1-hour mean, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (December 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (September 2024).
- 1.1.9 Data capture was below 90% for multiple monitors due to SH-AQMP2 suffering water ingress and subsequently becoming damaged. Sub-contractors have been sent to site in October and will repair or swap out the monitor. No data captured at FCC for the month of September 2024 due to no communications cable for the dust monitor. The replacement cable was installed on 1st October. No data capture from 22nd September onwards for the Grove Farm monitor due to a communications cable fault.
- 1.1.10 There were no (0) complaints received during the reporting period (September 2024).

Appendix A – Worksite and Dust Monitoring Locations

Figures 1-7: Worksite and Monitoring locations within BC



Legend
 Dust Monitor
 District Borough Unitary Boundaries

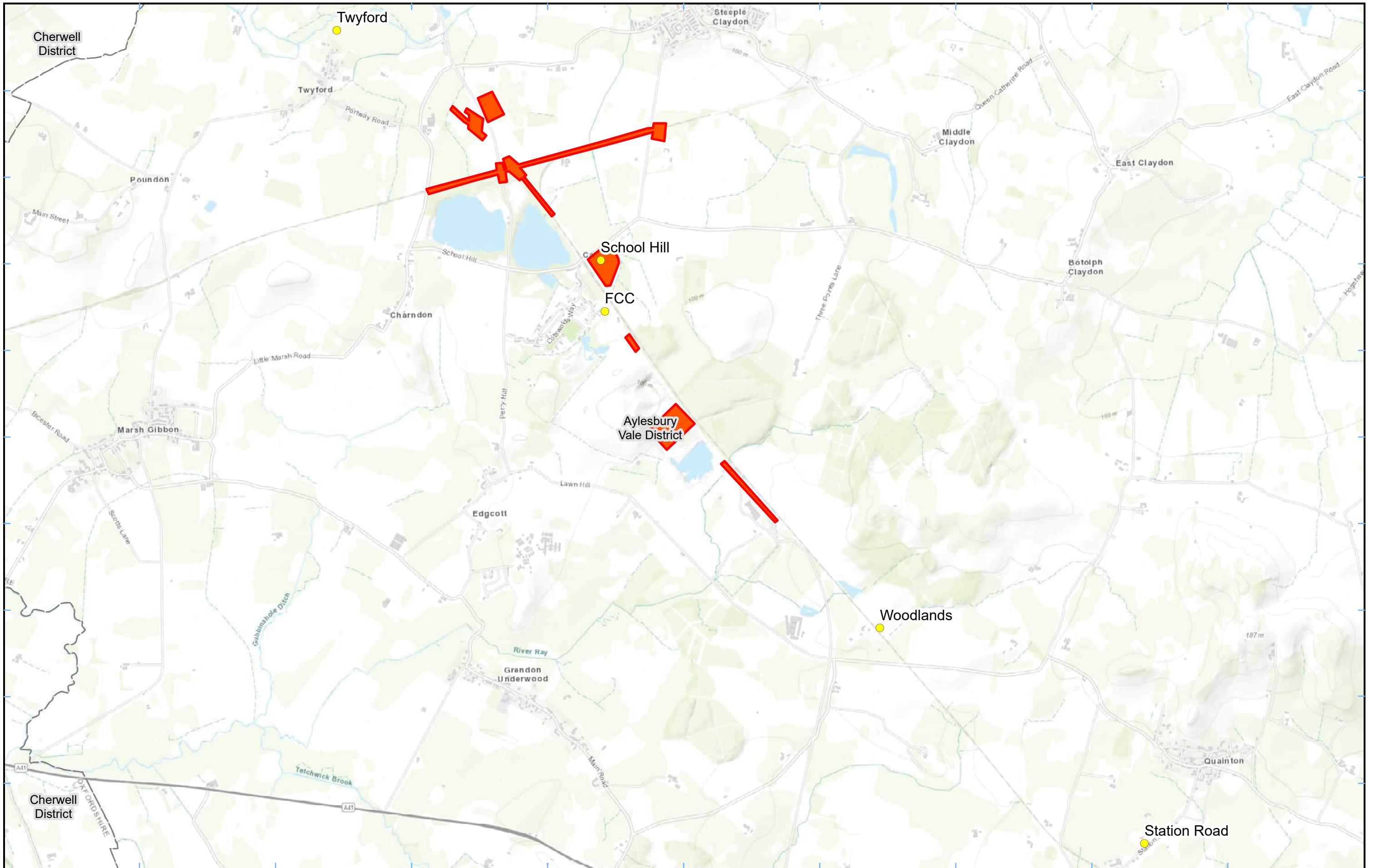
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Map Number
 Map Name
**Monitoring Locations
 In BC (Sheet 1)**
 Buckinghamshire County

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Legend
 ● Dust monitor □ District Borough Unitary Boundaries
 ■ Worksite


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Map Number
 Map Name
**Worksite & Monitoring Locations
 In BC (Sheet 2)**
 Buckinghamshire County

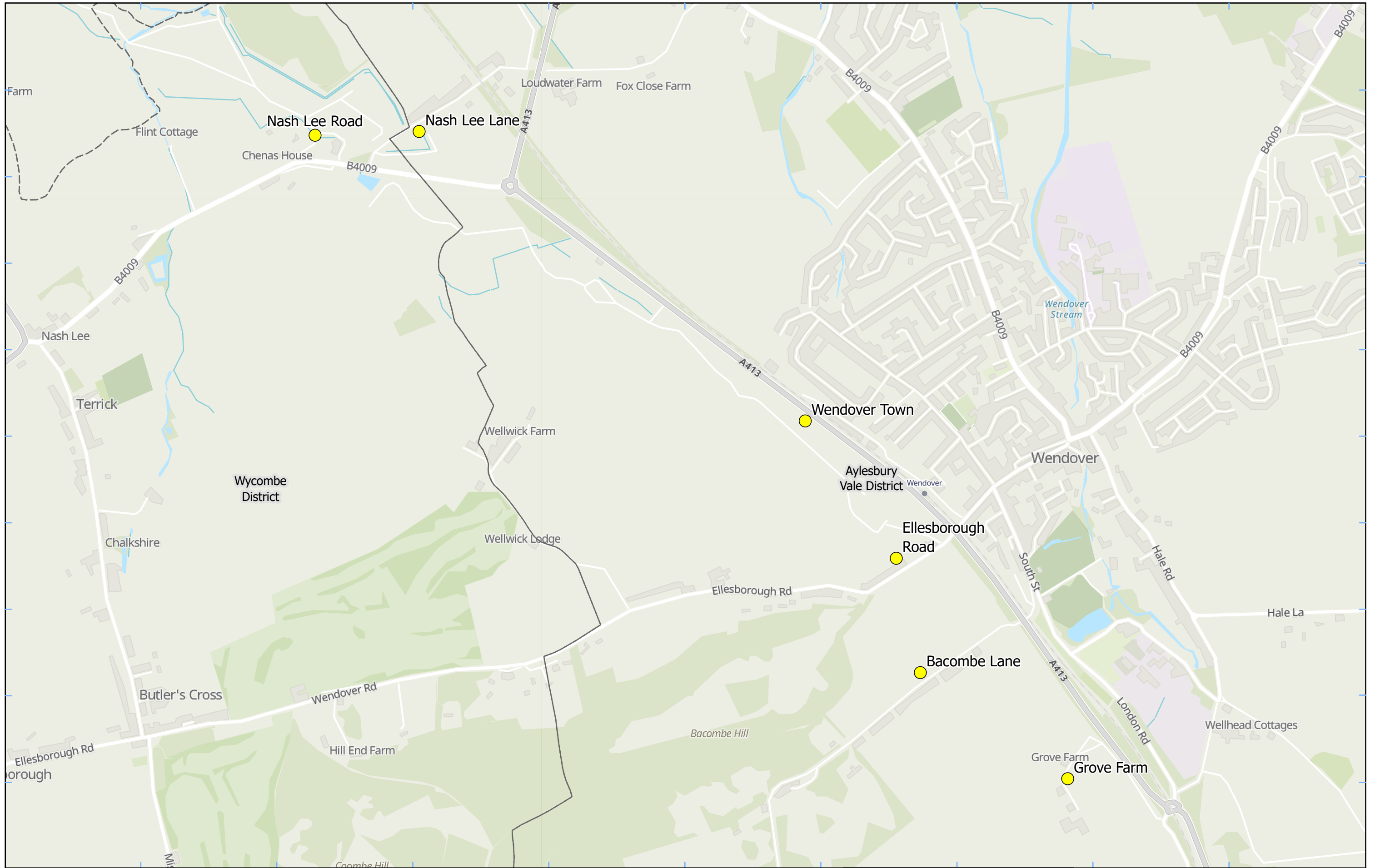

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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name
**Monitoring Locations
In BC (Sheet 3)**

Buckinghamshire Council

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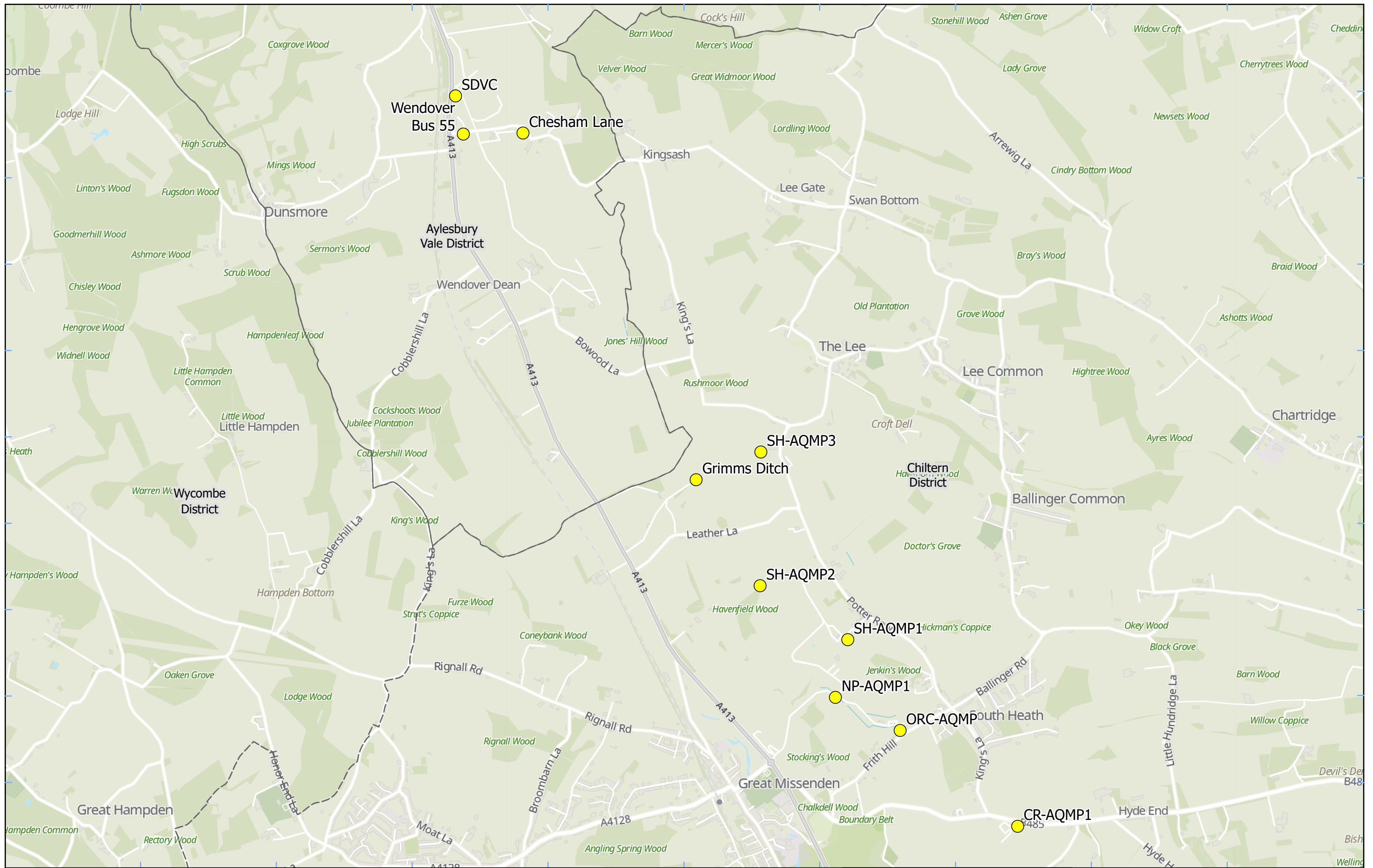
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- Dust Monitor
- District Borough Unitary Boundaries

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Map Name
**Monitoring Locations
In BC (Sheet 4)**

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Metres

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Legend
 Dust Monitor
 Worksite
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Worksite and Monitoring Locations
 In BC (Sheet5)**
 Buckinghamshire County

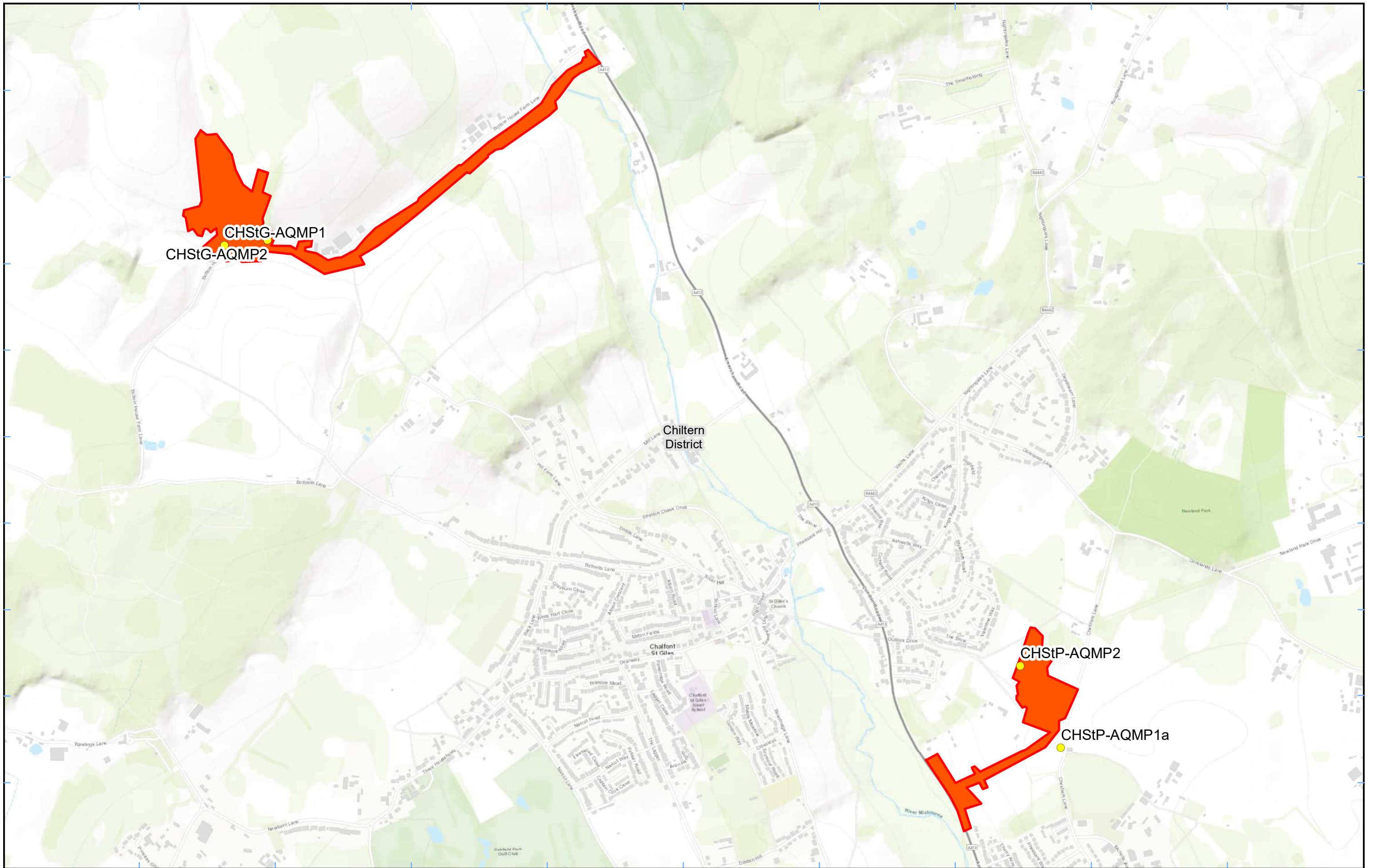
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 Dust Monitor
 Worksite
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Map Number
 Map Name
**Monitoring Locations
 In BC (Sheet 6)**
 Buckinghamshire County

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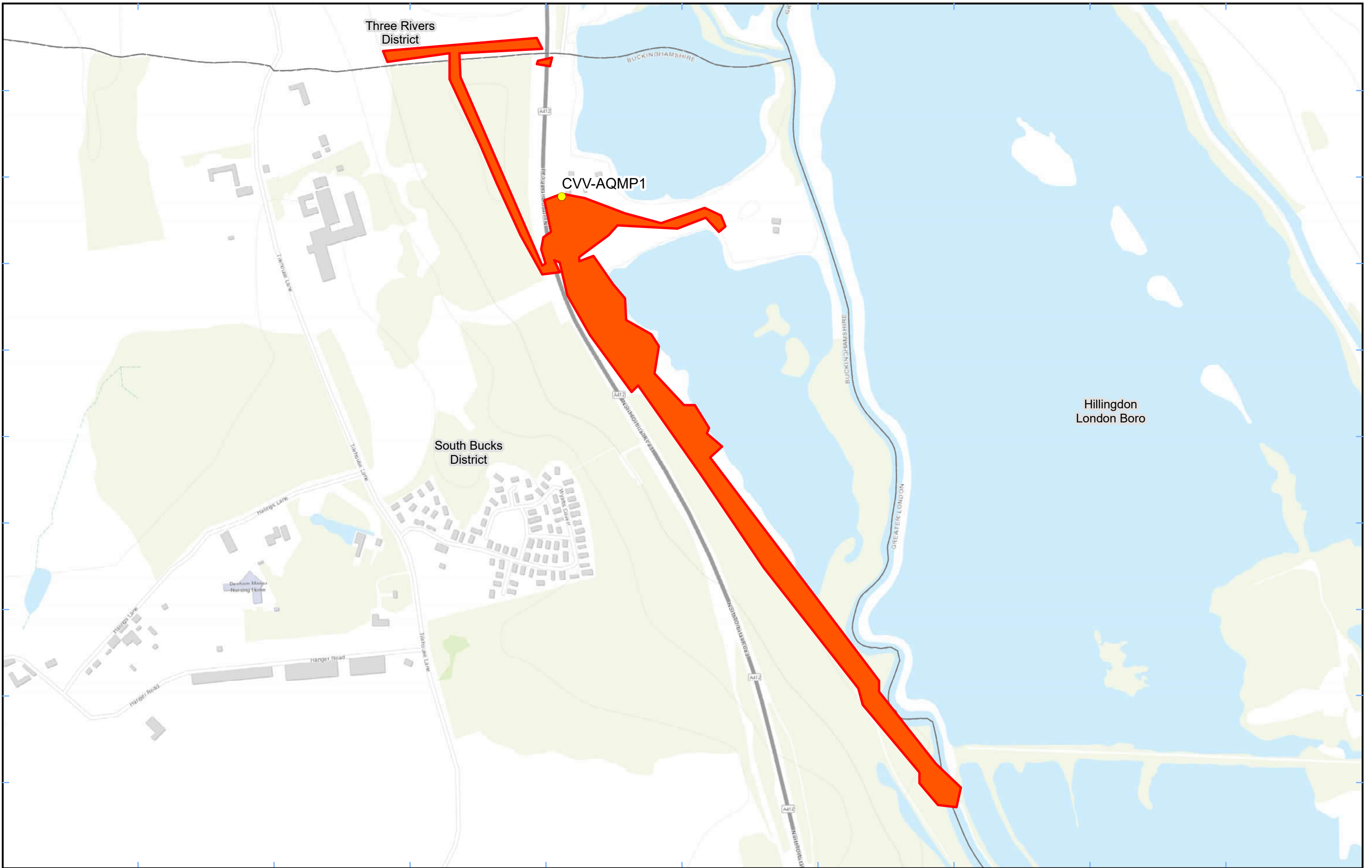
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 Metres



Doc Number: **Date: 22/02/22**



Legend
● Dust Monitor District Borough Unitary Boundaries
 Worksite

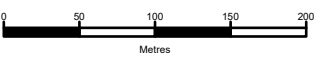
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Map Number
 Map Name
**Worksite and Monitoring Locations
 In BC (Sheet 7)**
 Buckinghamshire County


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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 ₁₀ concentration (µg/m ³) | Minimum 1-hour PM ₁₀ concentration (µg/m ³) | Maximum 1-hour PM ₁₀ concentration (µg/m ³) | Number of 1-hour periods exceeding trigger level of 190 µg/m ³ | Data capture (%) |
|--------------------|-------------------|--|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| CVW-AQMP1 | 503612, 189846 | On the north boundary of LTP1 | M | Yes | No | 5.7 | 1.0 | 111.0 | 0 | 99.0 |
| CHStP-AQMP1a | 500093, 192996 | Relocated from CHStP-NMP1 to site-boundary outside residence | M | Yes | Yes | 7.4 | 1.0 | 41.0 | 0 | 100.0 |
| CHStP-AQMP2 | 499951, 193282 | On the western boundary of the site | M | Yes | Yes | 7.6 | 1.0 | 41.0 | 0 | 100.0 |
| AMER-AQMP1 | 495367, 196722 | On the north-eastern boundary of Amersham | M | Yes | Yes | 8.0 | 1.0 | 40.0 | 0 | 98.9 |
| AMER-AQMP2 | 495263, 196590 | On the south-western boundary of Amersham | M | Yes | Yes | 7.8 | 1.0 | 46.0 | 0 | 98.9 |
| CHStG-AQMP1 | 497170, 194752 | On the southern boundary close to Hobbs Hole Cottage | M | Yes | Yes | 5.5 | 1.0 | 37.0 | 0 | 100.0 |
| CHStG-AQMP2 | 497320, 194770 | On southern boundary next to carpark | M | Yes | Yes | 6.9 | 0.0 | 42.0 | 0 | 97.6 |
| LMS-AQMP1 | 493190, 198848 | On the south-west of the site | M | Yes | Yes | 7.4 | 1.0 | 39.0 | 0 | 100.0 |
| LMS-AQMP2 | 493407, 198731 | On the south-east of the site | M | Yes | Yes | 6.9 | 0.0 | 36.0 | 0 | 96.0 |
| CR-AQMP1 | 491291, 201143 | On the Chesham Road Vent Shaft | M | Yes | Yes | 8.3 | 1.0 | 45.0 | 0 | 98.2 |

| 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 ₁₀ concentration (µg/m ³) | Minimum 1-hour PM ₁₀ concentration (µg/m ³) | Maximum 1-hour PM ₁₀ concentration (µg/m ³) | Number of 1-hour periods exceeding trigger level of 190 µg/m ³ | Data capture (%) |
|--------------------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| ORC-AQMP | 490503, 201786 | Orchard Cottage South-eastern Site Boundary | M | Yes | Yes | 6.3 | 1.0 | 35.0 | 0 | 100.0 |
| NP-AQMP1 | 490069, 202008 | North Portal Site Entrance | M | Yes | Yes | 8.3 | 1.0 | 43.0 | 0 | 98.5 |
| SH-AQMP1 | 490152, 202395 | Park Farm | M | Yes | Yes | 23.5 | 7.9 | 74.2 | 0 | 100.0 |
| SH-AQMP2 | 489564, 202757 | King's Lane | M | Yes | Yes | 23.3 | 6.8 | 80.3 | 0 | 88.9 |
| SH-AQMP3 | 489569, 203654 | Leather Lane | M | Yes | Yes | 23.3 | 7.4 | 74.0 | 0 | 95.4 |
| School Hill (CAL-AQMP2) - Dust | 469003, 224740 | School Hill Compound | M | Yes | Yes | 9.0 | 1.0 | 50.0 | 0 | 99.7 |
| School End - Dust | 463666, 230049 | School End, Chetwode | M | Yes | Yes | 8.6 | 1.0 | 36.0 | 0 | 93.5 |
| Grimms Ditch - Dust | 489135, 203468 | Leather Lane, The Lee, South Heath | M | Yes | Yes | 6.2 | 1.0 | 34.0 | 0 | 99.3 |
| Chesham Lane - Dust | 487974, 205794 | Chesham Lane, The Lee, Wendover | M | Yes | Yes | 7.6 | 1.0 | 40.0 | 0 | 99.6 |
| Wendover Bus 55 - Dust | 487574, 205787 | Chesham Lane, The Lee, Wendover | M | Yes | Yes | 3.1 | 1.0 | 13.0 | 0 | 94.6 |
| Twyford - Dust | 466544, 226883 | Twyford, Buckinghamshire | M | Yes | Yes | 9.1 | 1.0 | 45.0 | 0 | 95.4 |
| Chetwode/Hermitage - Dust | 463936, 229521 | Hermitage, Chetwode | M | Yes | Yes | 8.8 | 1.0 | 42.0 | 0 | 98.8 |
| Turweston North - Dust | 460439 , 237140 | Turweston, Buckinghamshire | M | Yes | Yes | 7.7 | 1.0 | 40.0 | 0 | 99.7 |
| FCC - Dust | 469042 , 224263 | Adjacent Red Kite View, Calvert | M | Yes | Yes | - | - | - | - | - |
| Ellesborough Road - Dust | 486458 , 207550 | Ellesborough Road, Wendover | M | Yes | Yes | 7.9 | 1.0 | 38.0 | 0 | 99.2 |

| 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 ₁₀ concentration (µg/m ³) | Minimum 1-hour PM ₁₀ concentration (µg/m ³) | Maximum 1-hour PM ₁₀ concentration (µg/m ³) | Number of 1-hour periods exceeding trigger level of 190 µg/m ³ | Data capture (%) |
|----------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| Nash Lee Road - Dust | 484766 , 208782 | Nash Lee Lane (west) | M | Yes | Yes | 8.6 | 1.0 | 42.0 | 0 | 99.7 |
| Nash Lee Lane - Dust | 485069 , 208793 | Nash Lee Lane (east) | M | Yes | Yes | 8.9 | 1.0 | 40.0 | 0 | 91.5 |
| Bacombe Lane - Dust | 486528 , 207217 | Bacombe Lane, Wendover | M | Yes | Yes | 9.0 | 1.0 | 42.0 | 0 | 100.0 |
| SDVC - Dust | 487522, 206043 | Small Dean Viaduct, London Road | M | Yes | Yes | 8.5 | 1.0 | 42.0 | 0 | 99.6 |
| Station Road - Dust | 474068, 219307 | Station Road, Quainton | M | Yes | Yes | 9.1 | 1.0 | 135.0 | 0 | 98.9 |
| Wendover Town - Dust | 486193, 207950 | Wendover Bypass, Wendover | M | Yes | Yes | 8.5 | 1.0 | 41.0 | 0 | 98.6 |
| Woodlands - Dust | 471603, 221315 | Station Rd, Quainton, Woodlands Farmhouse | M | Yes | Yes | 8.1 | 1.0 | 40.0 | 0 | 99.0 |
| Grove Farm | 486957, 206908 | Grove Farm, London Road, Wendover | M | Yes | Yes | 10.1 | 1.0 | 42.0 | 0 | 71.3 |

Figure 8: Continuous dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

