

Air Quality and Dust Monitoring Monthly Report – December 2025 **Buckinghamshire** Council



Department for Transport

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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 dust monitoring undertaken in the Buckinghamshire Council (BC) during December 2025.
- 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: Haul road maintenance;
- ATFS: Permanent drainage, soiling and seeding, ATFS access road construction, slab removal;
- Pumping Water Management;
- Satellite Welfares;
- South Abutment: Drainage works, South Abutment construction stage 2 – earthworks, yard supporting activities, soiling and seeding works, launching girder platform removal;
- Environmental Maintenance;
- Stockpiling Activity HOAC: Stockpile management;
- Deck Finishes Logistics: Preparation and operation of storage yards and installation of below deck access provision, traffic management on the deck surface, delivery of parapets, noise barriers, troughs, pipes, steel works and other minor materials 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: North abutment works, deck waterproofing, SFRC slab construction, north embankment and south embankment noise barriers and foundations, noise barrier and concrete panel installation at north embankment, and masking wall installation at north embankment and south embankment;
- Deck Finishes – In-deck Construction: Structural health monitoring;
- Landscaping: Advanced works including removal of cofferdam, initial ground drainage including manhole chamber, landscaping, hardstanding removal and tree removal & vegetation clearance, and streetworks – bellmouth road construction; and

- General site activities.

Chalfont St Peter Vent Shaft

- General Site Activities;
- Road Maintenance Works;
- Ground Level Works (External Works Part 2);
- Building Trades: brickworks and internals; and
- Demobilisation.

Amersham Vent Shaft

- General Site Activities;
- External Works Phases 1&2;
- Precast Boundary Wall;
- Internal Works;
- Steel Works and Zinc Cladding; and
- Land Drainage 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;
- External Works;
- Internal Works;
- Zinc Cladding Works;
- Demobilisation; and
- Landscaping.

North Portal work site

- General Plant: Site Activities;
- Tracks Platform;

- Piling Platform Reinstatement;
- Porous Portal Structure;
- North Portal Building;
- Tunnel Support: Batching Plant operation and concrete distribution and tunnel walkway slip forming; and
- Tracks Drainage and Utilities.

South Heath

- South Heath Earthworks & Drainage: Cutting and landscaping;
- General Earthworks: Site operations & support vehicles, stockpile management, surface water management, compounds and general maintenance;
- South Heath drainage: Earthworks for track drainage, stockpile and landscaping bunds drainage and collection chamber construction;
- Utilities: Excavation and construction, installation of utilities and connection of new utilities;
- Great Missenden Compound: Plant and compound maintenance, utilities work and site security at Great Missenden round-about;
- GMI/2 Overbridge: Site security, construction of FRC structure, deck finishes and cutting finishes;
- GMI/12 Overbridge: Site security, excavation & pile cropping, construction of FRC structure, deck finishes and cutting finishes;
- Ground Investigation Works: Borehole drilling, geo-physical investigations and ground investigation and mitigation;
- Site Access Road and Mass Haul Route construction and maintenance: lime spreading and tarmac & concrete surfacing; and
- Road utilisation: SAR utilisation and MHR utilisation.

North Chilterns Area

Chesham Lane

Rocky Lane Culvert

- Completed the reinforcement and shuttering for the outlet headwall base slab
- Completed the concrete repair works on the precast culvert units

Rocky Lane Ditch Slab

- Completed the ditch slab formwork and associated steel fixing
- Completed the concreting of the ditch slab and upstands.

Ellesborough Road

PCC Installation:

- 81no. segments installed into phase 2 / WGT south.

Bacombe Lane

Grove Farm Underbridge:

- Excavation of the Southeast and Southwest wingwall blinding formation

Grove Farm Culvert:

- drilling and the pumping of grout into the void around the tunnel at POI001
- Grove Farm Attenuation Tank
- Delivery of PCC Segments
 - Installation of the External Wall units
 - installing the base slab reinforcement
 - Installation of the dry flow channels for section one.

Wendover Compound

Wendover North Portal:

- Crushing 6F5 stone

Wendover Green Tunnel

PCC Installation:

- 23no. segments installed into phase 3 / WGT north

Invert Slab / Tunnel FRC:

- 125 lin. meters of FRC invert slab cast (500m³)

Waterproofing:

- 40 lin. meters of overtunnel waterproofing installed into phase 2 / WGT south

Cutting Dewatering:

- Installation of toe drainage network into north portal - 90% complete in December

Break from Highway:

- Installation of carriageway capping & subbase in plaza area
- Completion of plaza drainage network

Calvert Area

Quainton

- Earthworks - Ongoing
- Utility diversions.
- Station Road Realignment (East tie-in) – de-vegetation, old tarmac removal.

Woodlands

- Woodlands Cutting – Dig & Replace.
- Woodland Drop Inlet Culvert works.
- Adamas Accommodation – Technical backfill and back of wall drainage.
- Aggregate deliveries along the SAR.

FCC / School Hill (Calvert)

- School Hill batching plant – production of concrete.
- School Hill Overbridge – FRC works.
- School Hill Road Realignment – VacEx for utilities
- 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
- Doddershall Embankment earthworks
- Doddershall No. 6 and No. 7 Culvert
- Quainton cutting
- QUA28 overbridge
- Station Road overbridge
- Station Road Network Rail overbridge.

Twyford to Greatworth

Turweston North

- Turweston Viaduct: Top Plank installation - Lifting operations. Edge protection
- Turweston Green Overbridge: -Scaffolding works around wingwalls, Steel fixing prefab steel for North East and West wingwall Walls, Concrete hollow block delivery, Waterproofing of Deck - ongoing weather dependent, Concrete pour, back of wall drainage, concrete pour 51m3 West foundation WW. Concrete pour 55m3 East

wingwall pour. Housekeeping and moving materials. Abutment backfilling works with 6N7 and 1A1. Earthworks carry on backfilling in front of abutments.

- Earthworks: Breaking out rock, Running Class 2 to turweston cutting landscape bund, Duo crushing to 1A1/6P6. Central excavation replace - A422-TGOB. Drainage north of TGOB. 6F8 - installation near TGOB access.

School End

- Water management activities: use and maintenance of pumps, installation of temp drainage, pond maintenance.
- Use and Maintenance of Site Access Road
- Use and Maintenance of Mass Haul Road
- Preparation for Opening of School End Road:- VRS installation, blacktop, topsoil placement
- Preparation for Christmas shutdown: Heras fencing installation.

Twyford

- Water management activities: use and maintenance of pumps, installation of temp drainage, pond maintenance, silt fencing installation, digging out ditches
- Twyford Viaduct A3 Steel Fixing and Formwork, P2 Diaphragm steel fixing and formwork, concrete for transition wingwalls.
- Preparation for Christmas shutdown: heras fencing installation.

Hermitage

- Water management activities: use and maintenance of pumps, digging out ditches, pond maintenance, installation of silt fencing.
- Chetwode Cutting Central Track Drainage Installation (trench excavation, pipe and catchpit installation, backfill with shingle).
- CHW18 Overbridge: parapet installation.
- Use and maintenance of SAR and MHR
- Preparation for Christmas shutdown: Heras fencing installation.

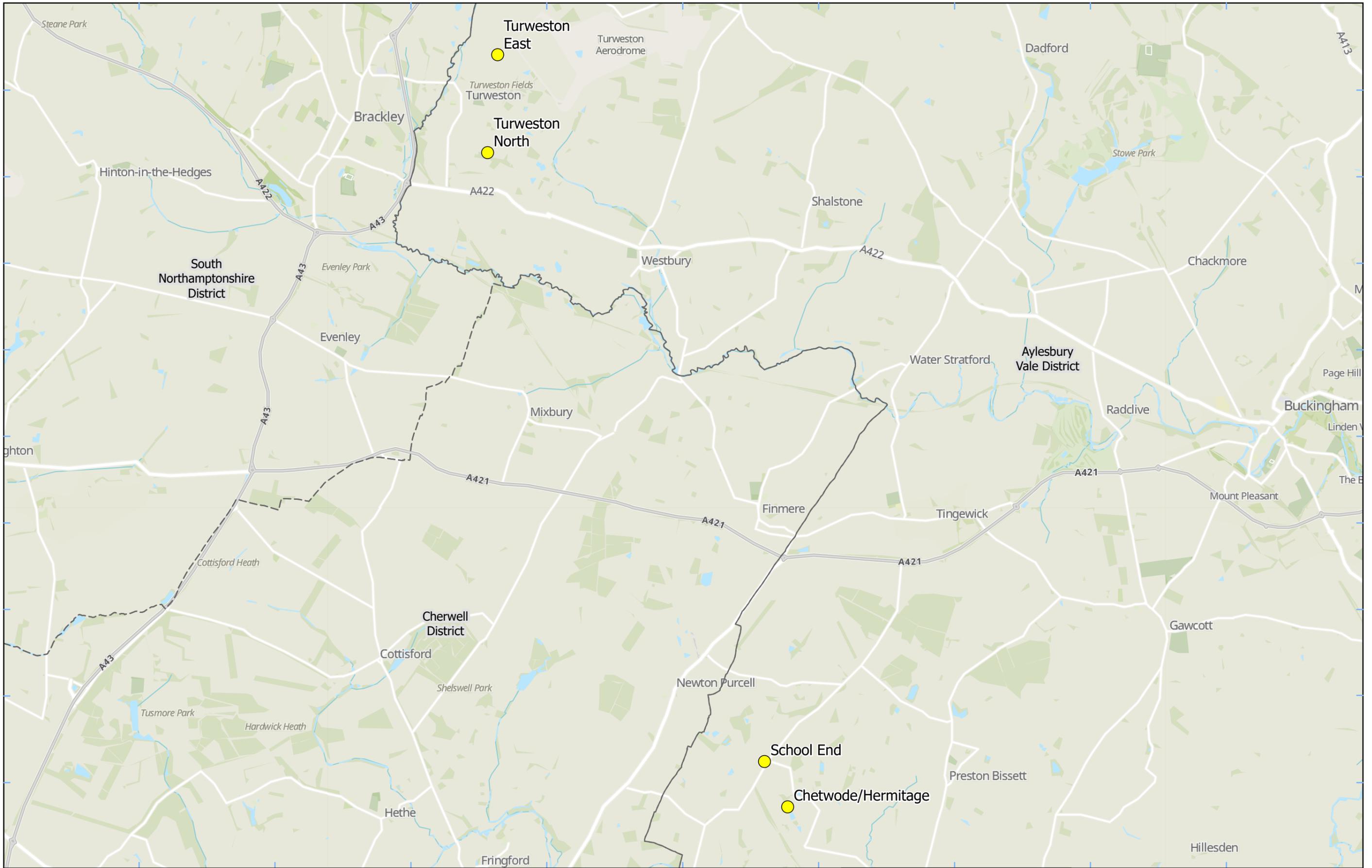
1.1.5 Twenty-six (26) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.

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 (December 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- CHStP-AQMP1a and CHStP-AQMP2 are due to power being removed from the site. Align are arranging for alternative locations and power supply to be installed for these monitors.
 - No data capture at Chesham Lane for December 2025, removed for the winter period following Dust Risk Assessment.
 - Ellesborough Road - Intermittent data capture throughout the month was due to a battery fault and no access to property where monitoring equipment is located.
 - Bacombe Lane - Intermittent data capture throughout the month was due to a battery fault, no battery swap could be undertaken during the Christmas break.
 - Wendover Compound - Intermittent data capture throughout the month was due to a battery fault, no battery swap could be undertaken during the Christmas break.
 - School Hill - Intermittent data capture throughout the month was due to a battery fault.
 - FCC - Intermittent data capture throughout the month was due to a battery fault.
 - Station Road - Intermittent data capture from 21st December 2025 was due to a battery fault.
 - Woodlands - Intermittent dust capture from 22nd December 2025 was due to a battery fault.
 - No data capture at School End for December 2025, removed for the winter period following Dust Risk Assessment.
 - No data capture at Twyford for December 2025, removed for the winter period following Dust Risk Assessment.
 - No data capture at Chetwode Hermitage for December 2025, removed for the winter period following Dust Risk Assessment.
 - No data capture at Turweston North for December 2025, removed for the winter period following Dust Risk Assessment.
 - No data capture at Turweston East for December 2025, removed for the winter period following Dust Risk Assessment.
- 1.1.10 There were no (0) complaints received during the reporting period (December 2025).

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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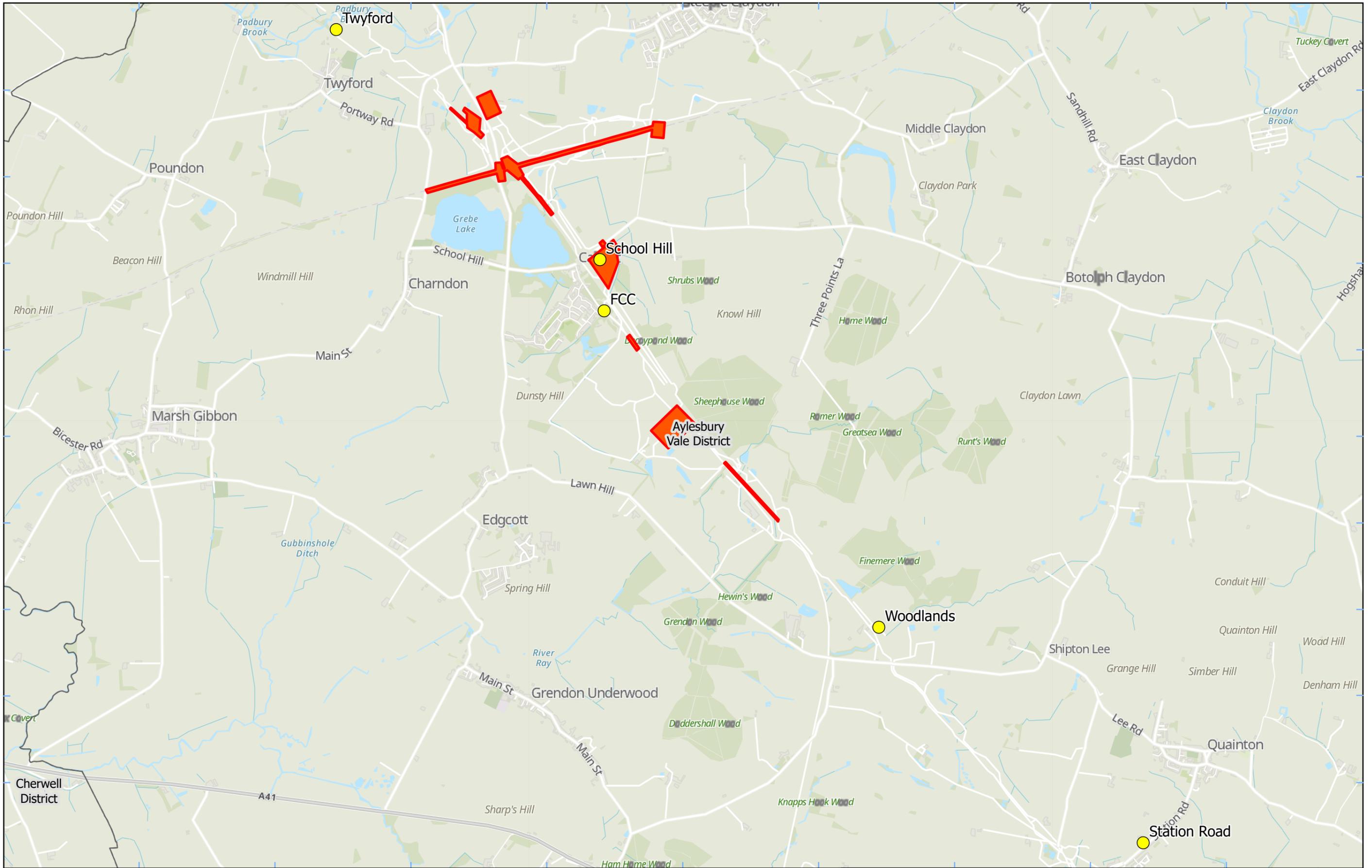
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Legend

- 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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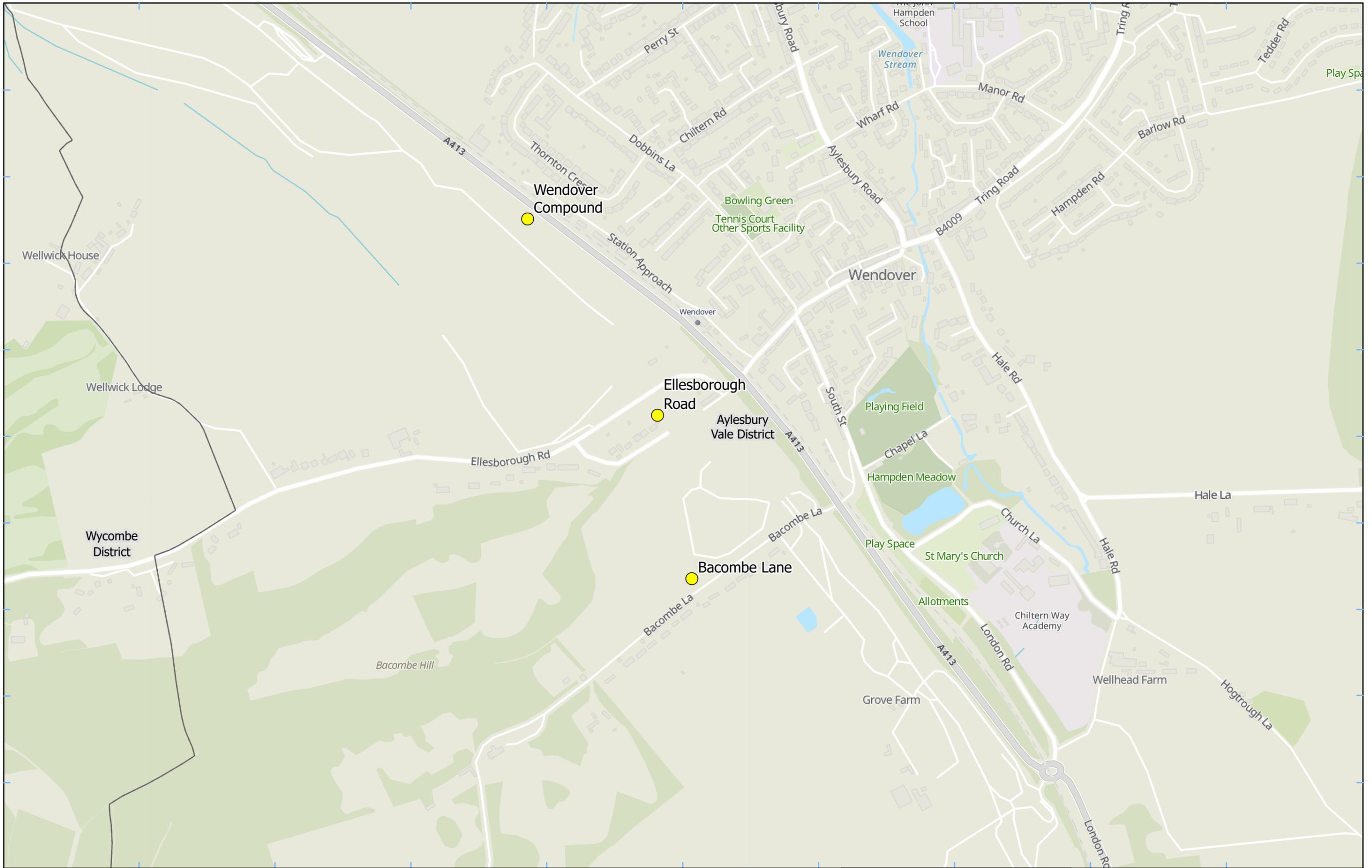
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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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

Buckinghamshire County

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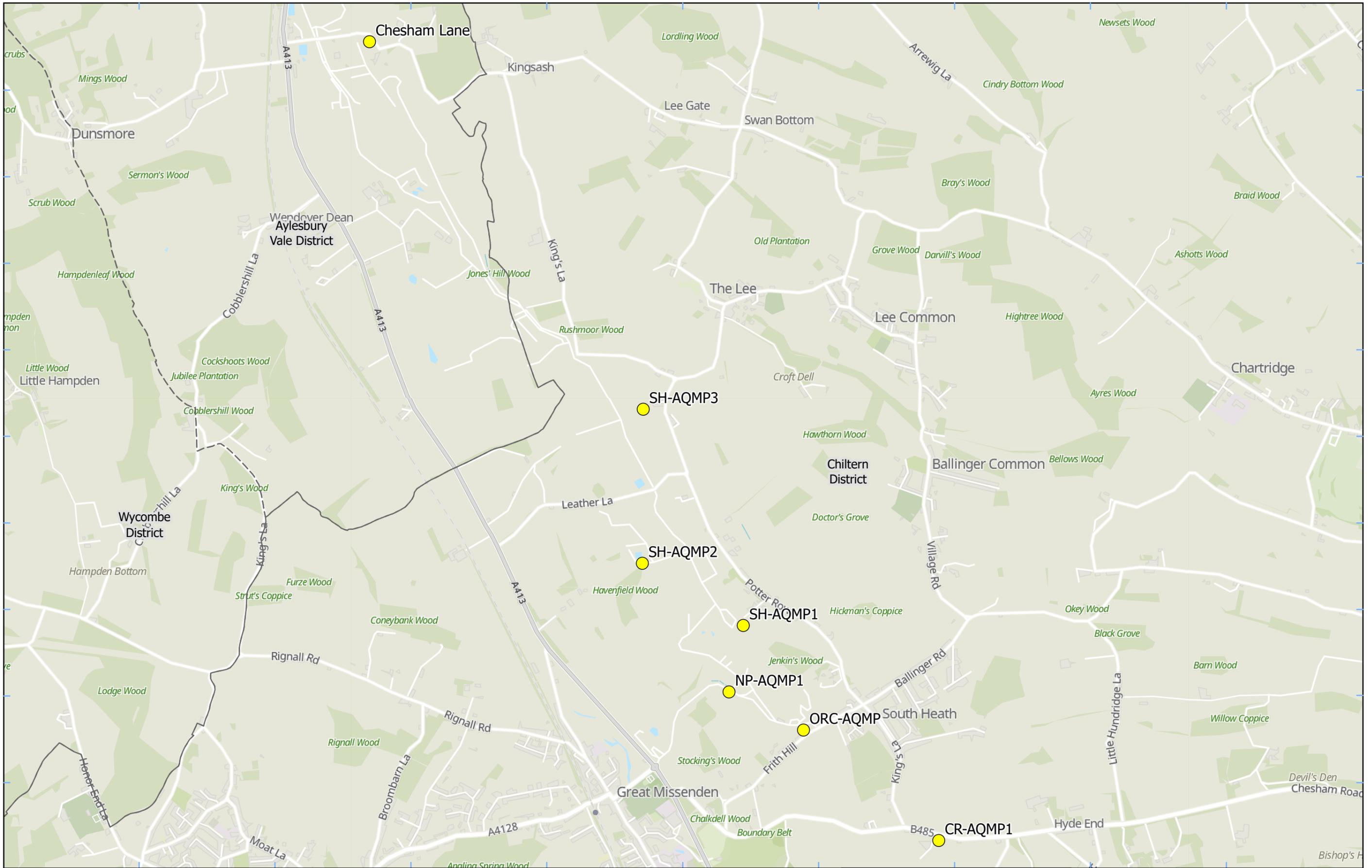
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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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

Buckinghamshire County

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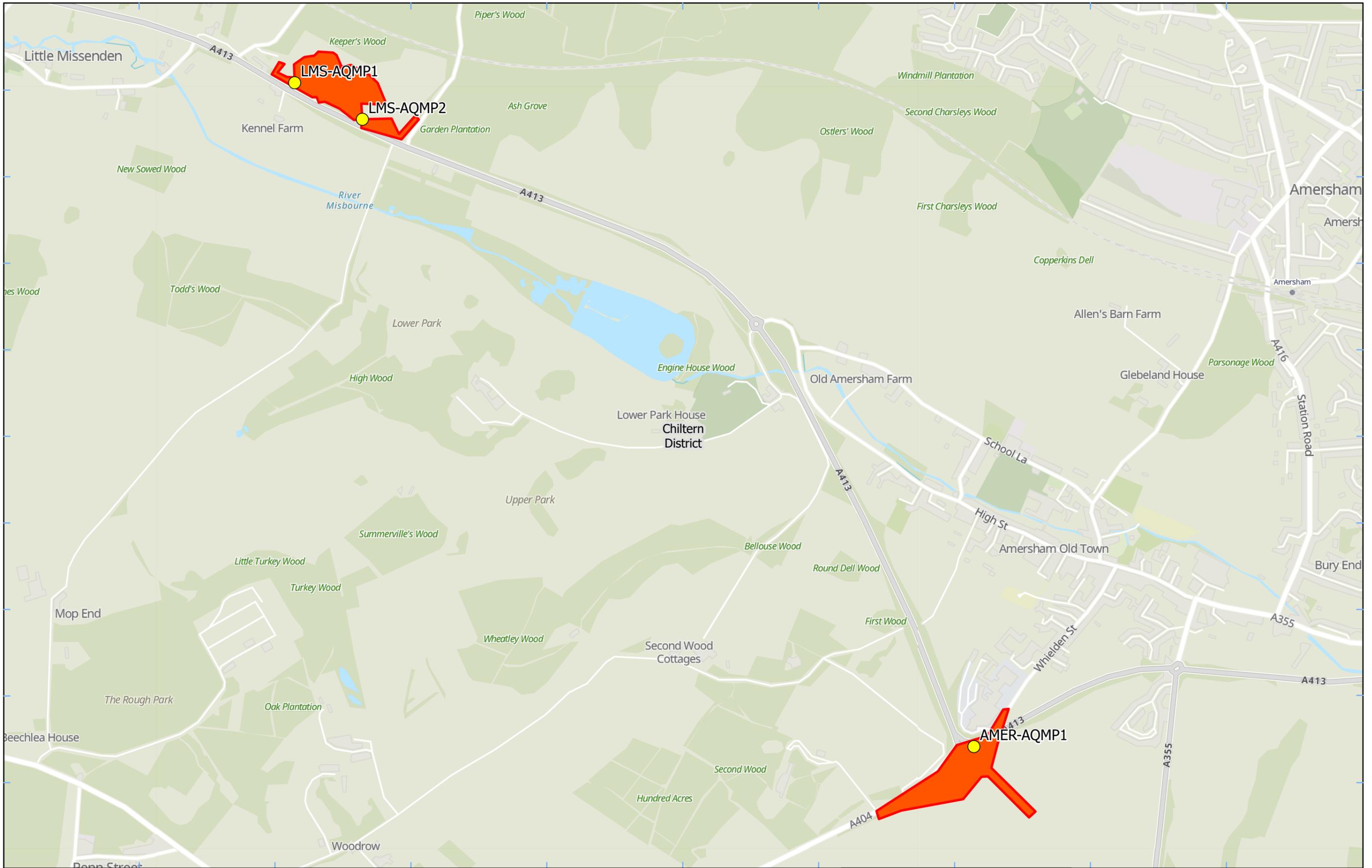
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Legend
 ● Dust Monitor
 [Red Area] Worksite
 [Dashed Line] District Borough Unitary Boundaries

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Map Number
 Map Name
**Worksite and Monitoring Locations
 In BC (Sheet 5)**
 Buckinghamshire County

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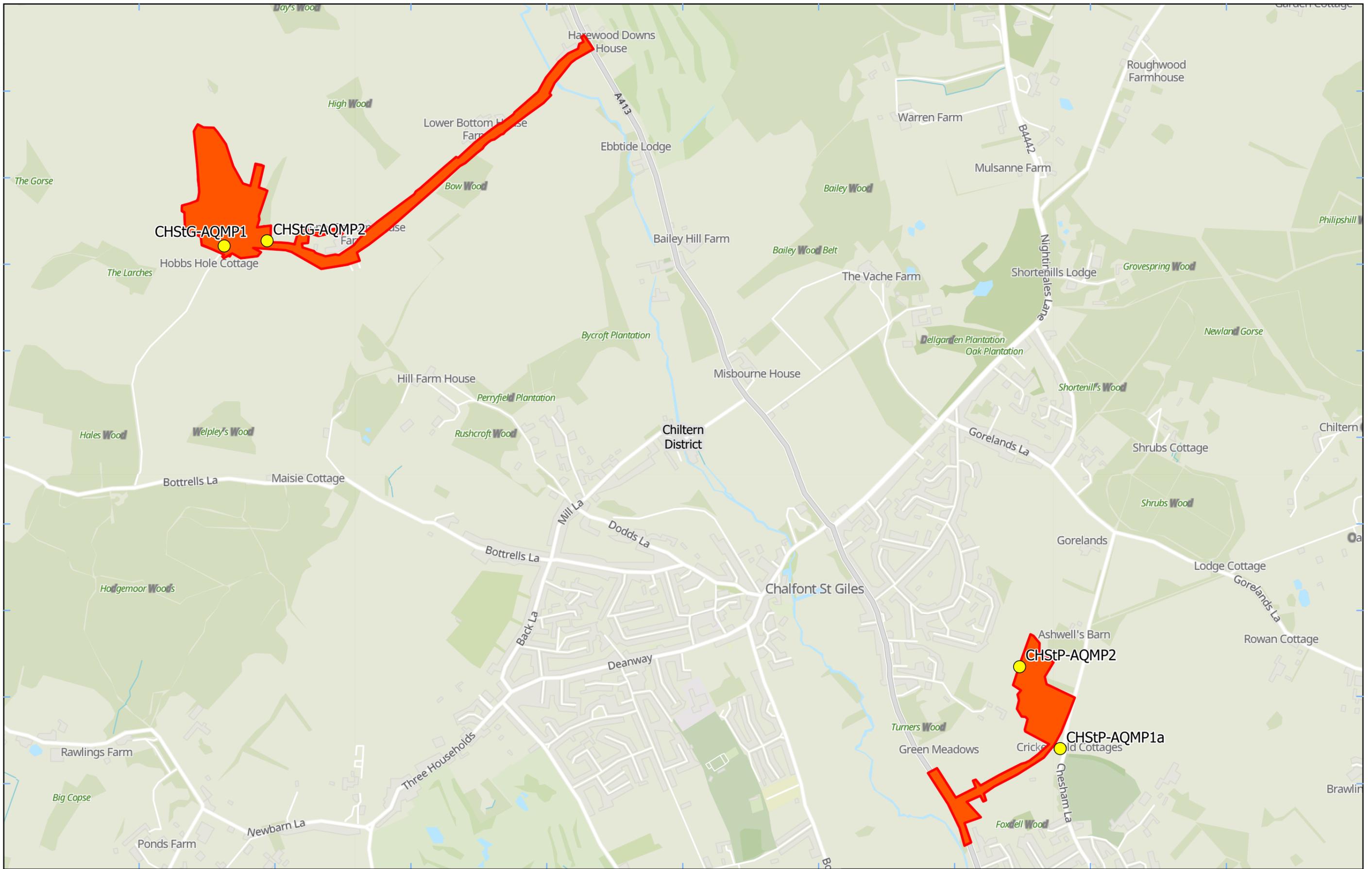
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Metres

Date: 10/07/25



Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

Map Name
**Worksite and Monitoring Locations
In BC (Sheet 6)**

Buckinghamshire County



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Metres

Date: 10/07/25

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 (%)
CHStP-AQMP1a	500093, 192996	Relocated from CHStP-NMP1 to site-boundary outside residence	-	No	Yes	-	-	-	-	-
CHStP-AQMP2	499951, 193282	On the western boundary of the site	-	No	Yes	-	-	-	-	-
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	7.9	1.0	31.0	0	93.4
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	6.4	1.0	30.0	0	100.0
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	7.1	1.0	32.0	0	97.8
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	8.1	1.0	30.0	0	100.0
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	7.2	1.0	28.0	0	97.7
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	7.4	1.0	33.0	0	99.1
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	7.1	1.0	32.0	0	98.3
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	7.1	1.0	31.0	0	99.5

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 (%)
SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	11.9	0.5	61.3	0	95.2
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	8.9	0.1	77.5	0	91.7
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	24.8	7.2	140.3	0	100.0
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	6.8	1.0	22.0	0	84.3
School End - Dust	463666, 230049	School End, Chetwode	-	No	Yes	-	-	-	-	-
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	-	No	Yes	-	-	-	-	-
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	-	No	Yes	-	-	-	-	-
Chetwode/Hermitage - Dust	463936, 229521	Hermitage, Chetwode	-	No	Yes	-	-	-	-	-
Turweston North - Dust	460439, 237140	Turweston, Buckinghamshire	-	No	Yes	-	-	-	-	-
Turweston East - Dust	460556, 238280	Turweston, Buckinghamshire	-	No	Yes	-	-	-	-	-
FCC - Dust	469042, 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	6.5	1.0	22.0	0	70.4
Ellesborough Road - Dust	486458, 207550	Ellesborough Road, Wendover	M	Yes	Yes	6.3	1.0	20.0	0	30.8
Bacombe Lane - Dust	486528, 207217	Bacombe Lane, Wendover	M	Yes	Yes	5.9	1.0	16.0	0	55.9
Station Road - Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	7.1	1.0	30.0	0	87.1
Wendover Compound - Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	6.9	1.0	24.0	0	69.4

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 (%)
Woodlands - Dust	471603, 221315	Station Rd, Quainton, Woodlands Farmhouse	M	Yes	Yes	6.0	1.0	31.0	0	78.5

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

