

Air Quality and Dust Monitoring Monthly Report – August 2025

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.

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

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2025, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v3.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/3 **OGI** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



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 August 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:

North Chilterns Area

Chesham Lane

- Rocky Lane Underbridge
- Installation of road furniture
- Maintenance of attenuation pond
- Road Surfacing and finishing works

Ellesborough Road

- Excavation continuing in phase 2/4 (Wendover Green Tunnel South)
- Excavation continuing in phase 3 (Wendover Green Tunnel North)

Bacombe Lane

- TBM Drive from Chamber 002 continues with the Rings being installed as the drive-in
- Installation of the rail in the tunnel to transport the segments through

Wendover Compound

Wendover North Portal:

- Nash Lee Temporary Diversion Reinstatement Works completed, including installation of drainage, protection slabs, backfilling, tarmacking, white lining, and signage.
- Constructed a new section of the LPW platform.
- LPW wall installation works and completed, Site-wide demobilisation works commenced.
- 50m of LPW capping undertaken.

- Moved all materials and created a new car park, as the Green Tunnel Team is commencing construction of the new site access from A413.
- Batching plant was connected to the mains.

Phase 1 Precast Installation:

- Continued installation of precast segments

Compound Works:

- Laying of tarmac for compound and car park

Phase 3 Dewatering:

- Continued ground water dewatering and discharge

Waterproofing:

- Waterproofing continued via use of gantry

Calvert Area

Calvert (FCC and School Hill Monitor)

- 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.

Woodlands

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

Quainton

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

Other works ongoing, where no dust monitoring is being undertaken 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 and East

- Turweston Green Overbridge final diaphragm pour. Backfill activities on east, west and back of abutments, deck waterproofing works, utility permanent diversion, deck finishing works, completion of south wingwall, commencement of north wingwalls construction following backfill activities.
- Drainage works, turweston cutting bulk excavation. Crushing, deliveries, excavate & replace, landscape bund fill.

School End and Hermitage

- Chetwode Cutting North to School End Overbridge: Bulk Dig, Construction of Steps on the batters, installation of drainage blanket.
- Chetwode Cutting Central: 1A1 Placement
- School End Overbridge: Deck Waterproofing
- School End Highway Realignment: Utility works next to bridge approaches
- CHW18 Overbridge: Construction of crane platform.
- CHW18 highway Realignment: Felling of Sycamore tree

Twyford

- Cowley Embankment: Construction of landscape bund.
- Twyford Viaduct: P2 backfill, CBGM backfill, blinding.
- Twyford Embankment: Reprofilng of post surcharge area by CSS, 3D prism installations, construction of v ditches, silt fencing installation.
- General site maintenance, Haul Road use and maintenance, SAR use and maintenance.

CVV LTP1 worksite

- North Embankment Compound: compound operation;
- DWSC Compound: compound operation;
- Haul Road Maintenance: Haul road maintenance;
- ATFS: permanent drainage, soiling and seeding, ATFS access road construction, slab removal;
- Pumping Water Management: 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 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: 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 Intervention 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 work site

- 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.

- 1.1.5 Twenty-seven (27) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, 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 (August 2025).
- 1.1.9 A new monitor was installed at Turweston East on 14th August 2025.
- 1.1.10 Data capture was below 90% for multiple monitors due to:
- A loose communications cable on the monitor at Ellesborough Road.
 - CHStP-AQMP1a had the power cable cut by align operatives during vegetation strimming, this was replaced as soon as possible by Sixense.

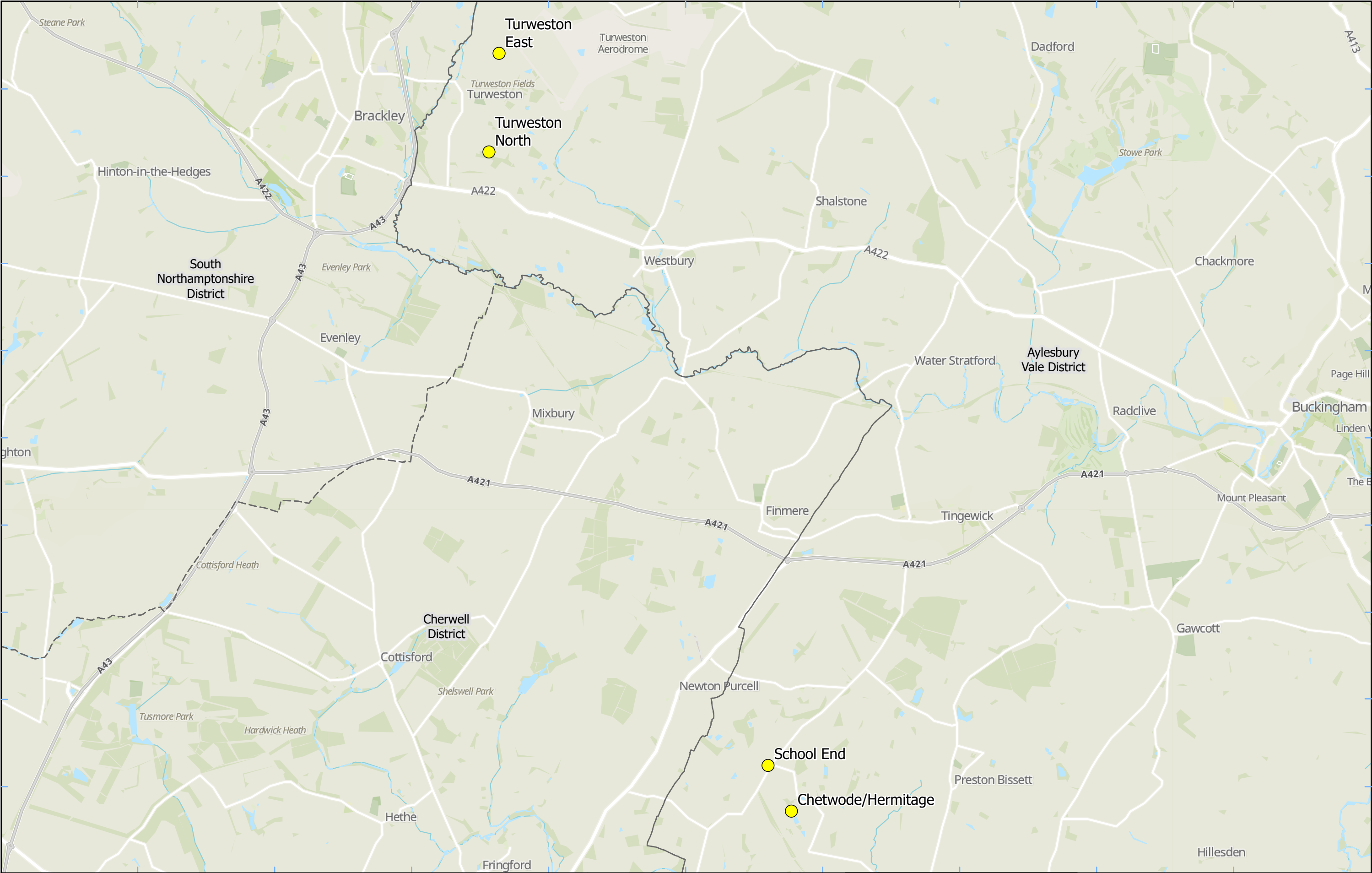
1.1.11 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during August 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46678-C	N/A	Large amounts of dust on personnel property.	Dust likely to be related to the drier weather conditions, as all dust mitigation measures are in place. Monitors checked and recorded no breaches. Resident has been updated.

Appendix A – Worksite and Dust Monitoring Locations

Figures 1-7: Worksite and Monitoring locations within BC



Legend

Dust Monitor

District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

Map Number

Map Name

**Monitoring Locations
In BC (Sheet 1)**

Buckinghamshire County

HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

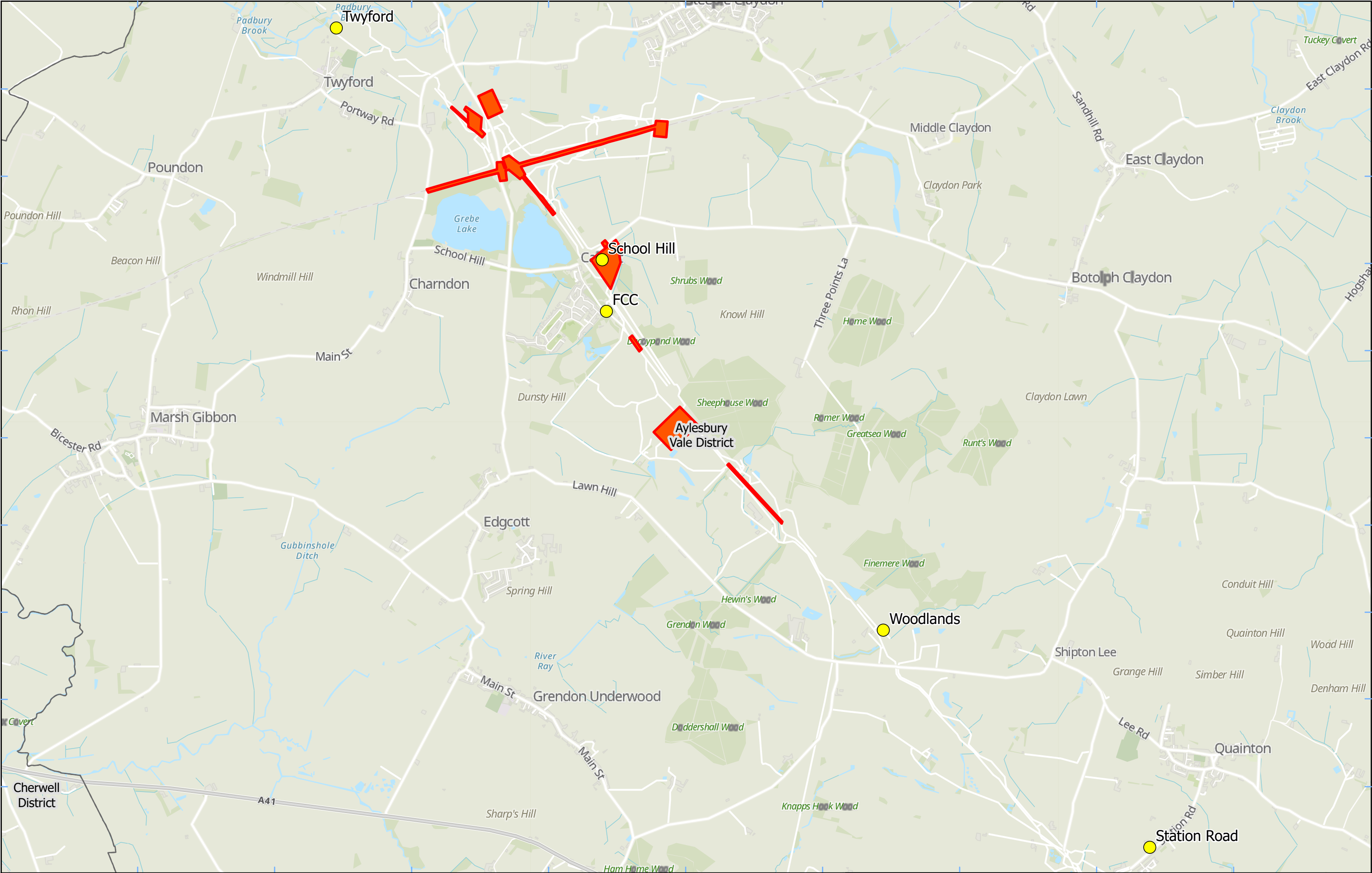
© Crown copyright and database rights 2025.
Ordnance Survey Licence Number 100049190.

Doc Number:

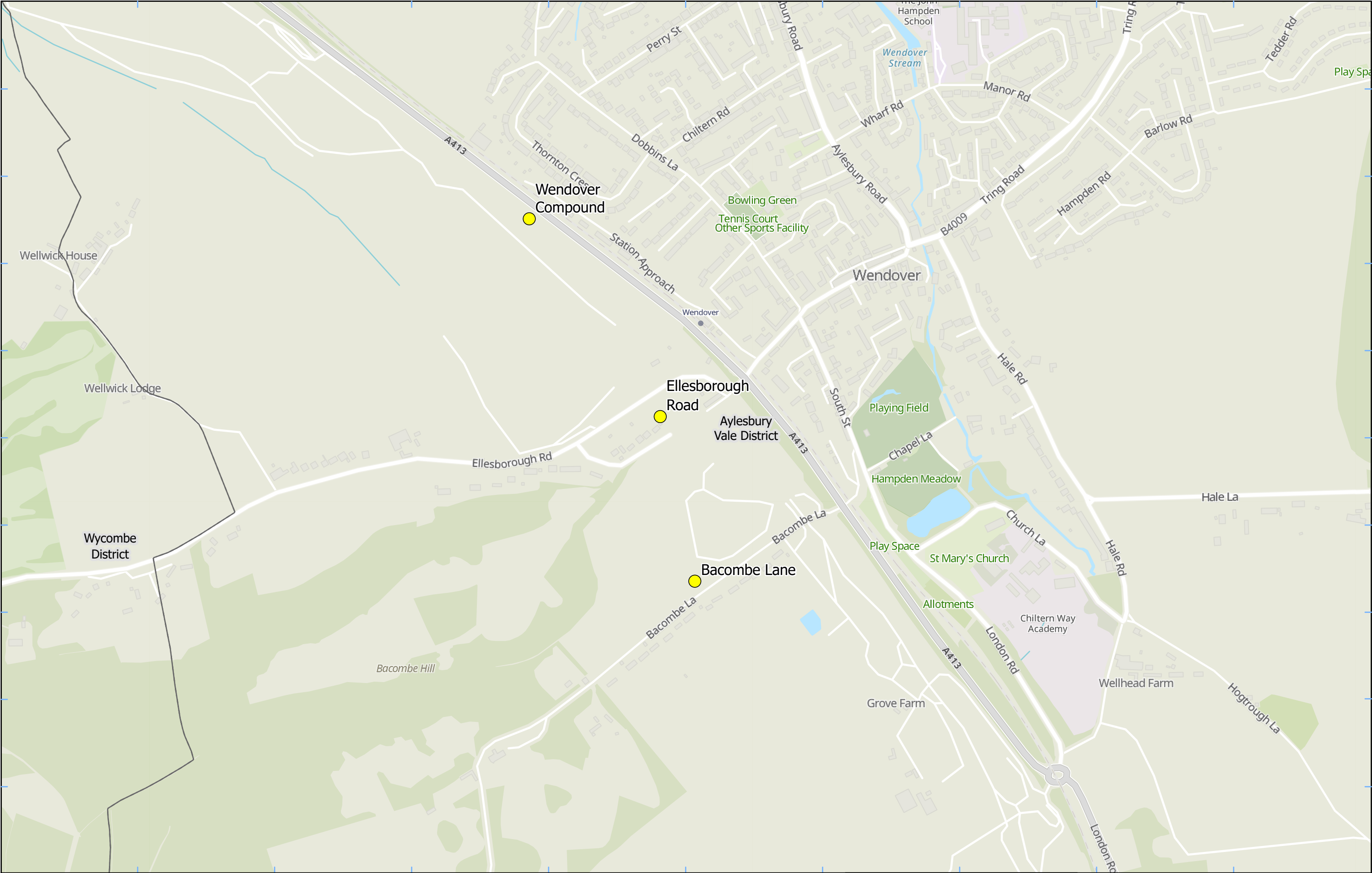
Scale at A3: 1:40,000

Metres

Date: 10/07/25



Legend Dust monitor Worksite Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack	Map Number	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2025. Ordnance Survey Licence Number 100049190. Doc Number:	
	Map Name Worksite & Monitoring Locations In BC (Sheet 2)		 Scale at A3: 1:32,000 Metres
	Buckinghamshire County		Date: 10/07/25



Legend

- Dust Monitor
- District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

Map Number

Map Name

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

Buckinghamshire County

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2025.
Ordnance Survey Licence Number 100049190.

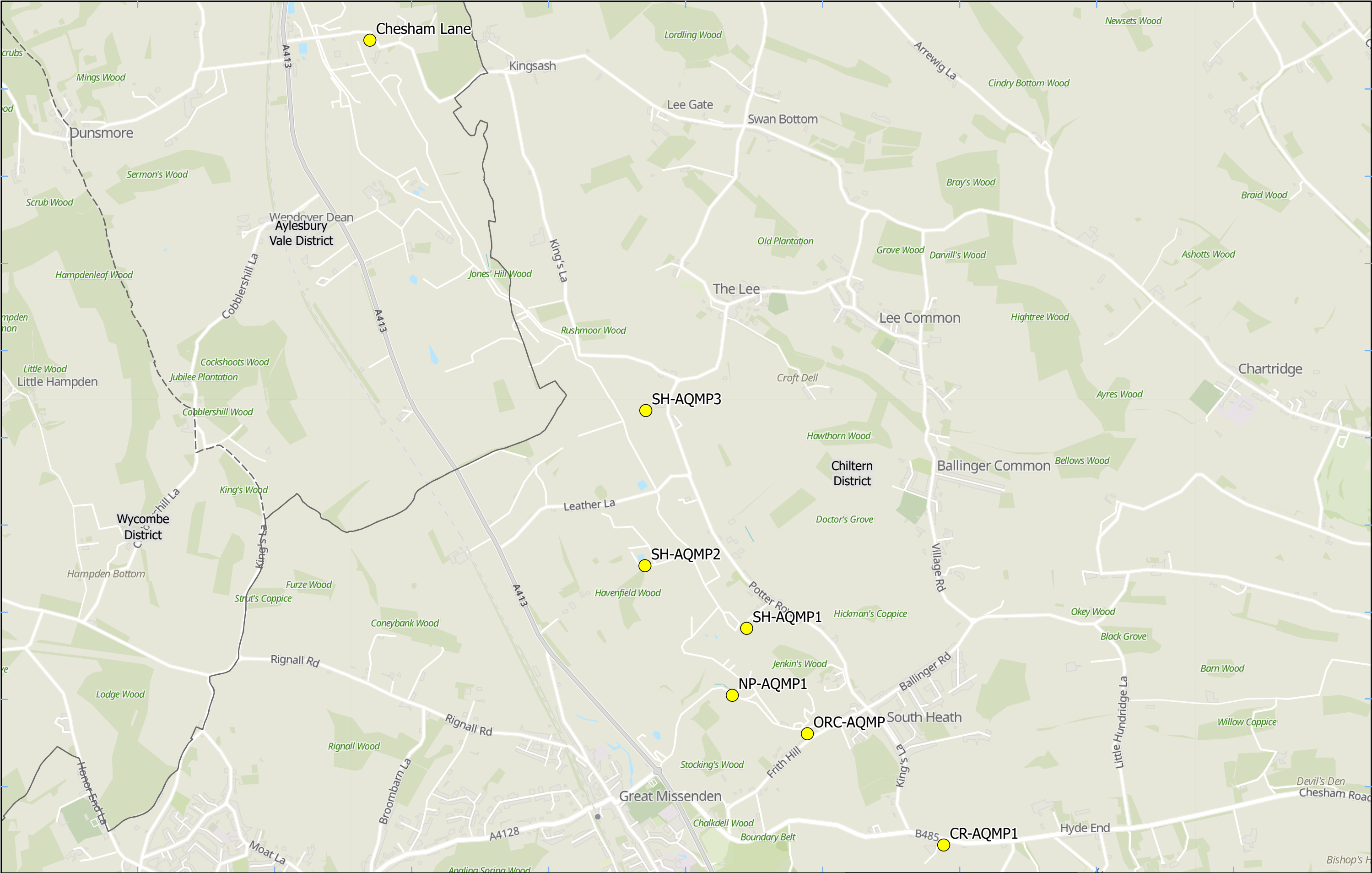
Doc Number:

Scale at A3: 1:7,000

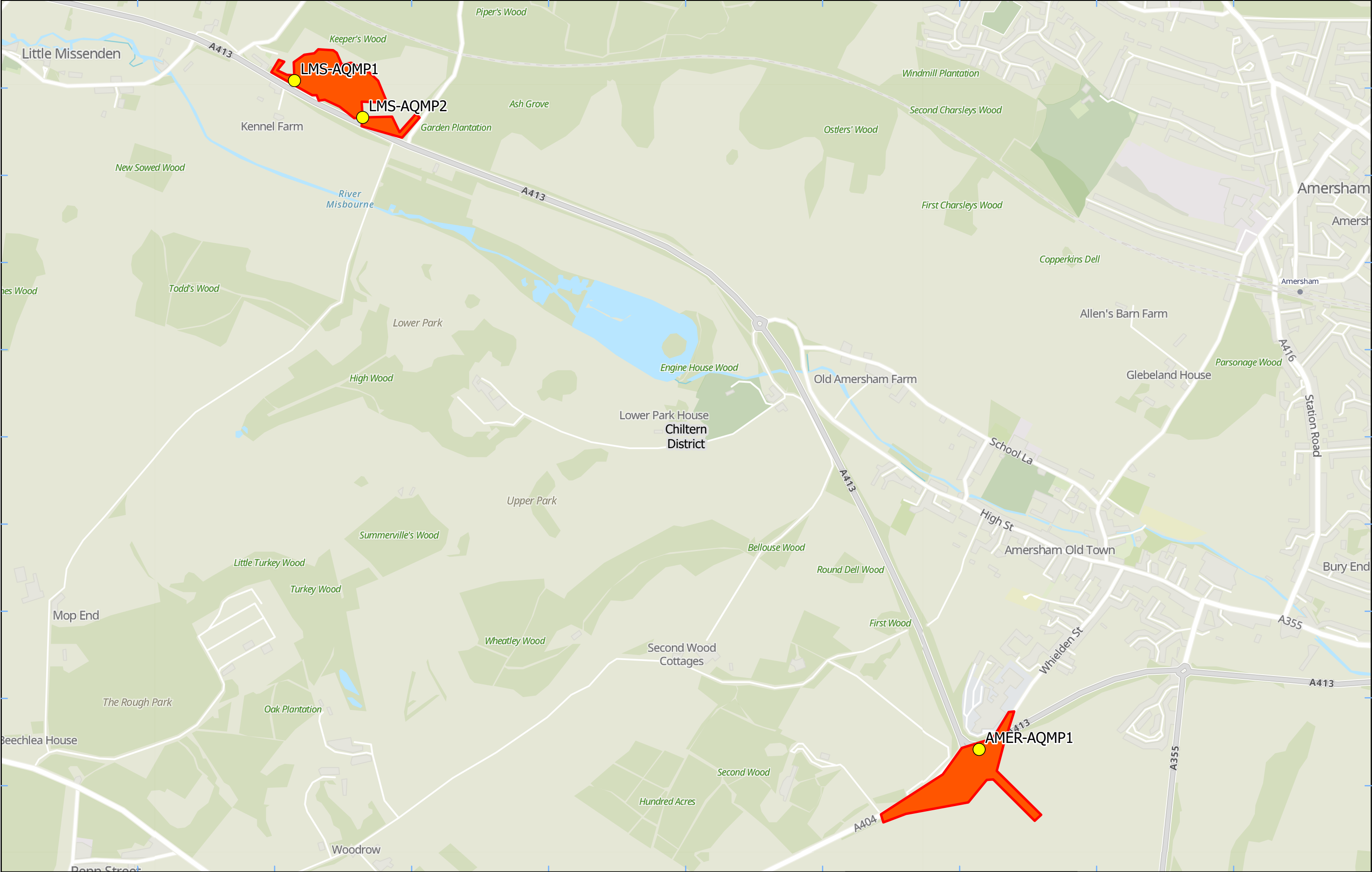
Metres

Date: 10/07/25

HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.



Legend  Dust Monitor  District Borough Unitary Boundaries Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack	Map Number	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.  Scale at A3: 1:20,000  Metres Date: 10/07/25 Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2025. Ordnance Survey Licence Number 100049190. Doc Number:
	Map Name Monitoring Locations In BC (Sheet 4)	
	Buckinghamshire County	



Legend

 Dust Monitor

 Worksite

 District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

Map Number

Map Name

Worksite and Monitoring Locations
In BC (Sheet 5)

Buckinghamshire County



HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2025.
Ordnance Survey Licence Number 100049190.

Doc Number:

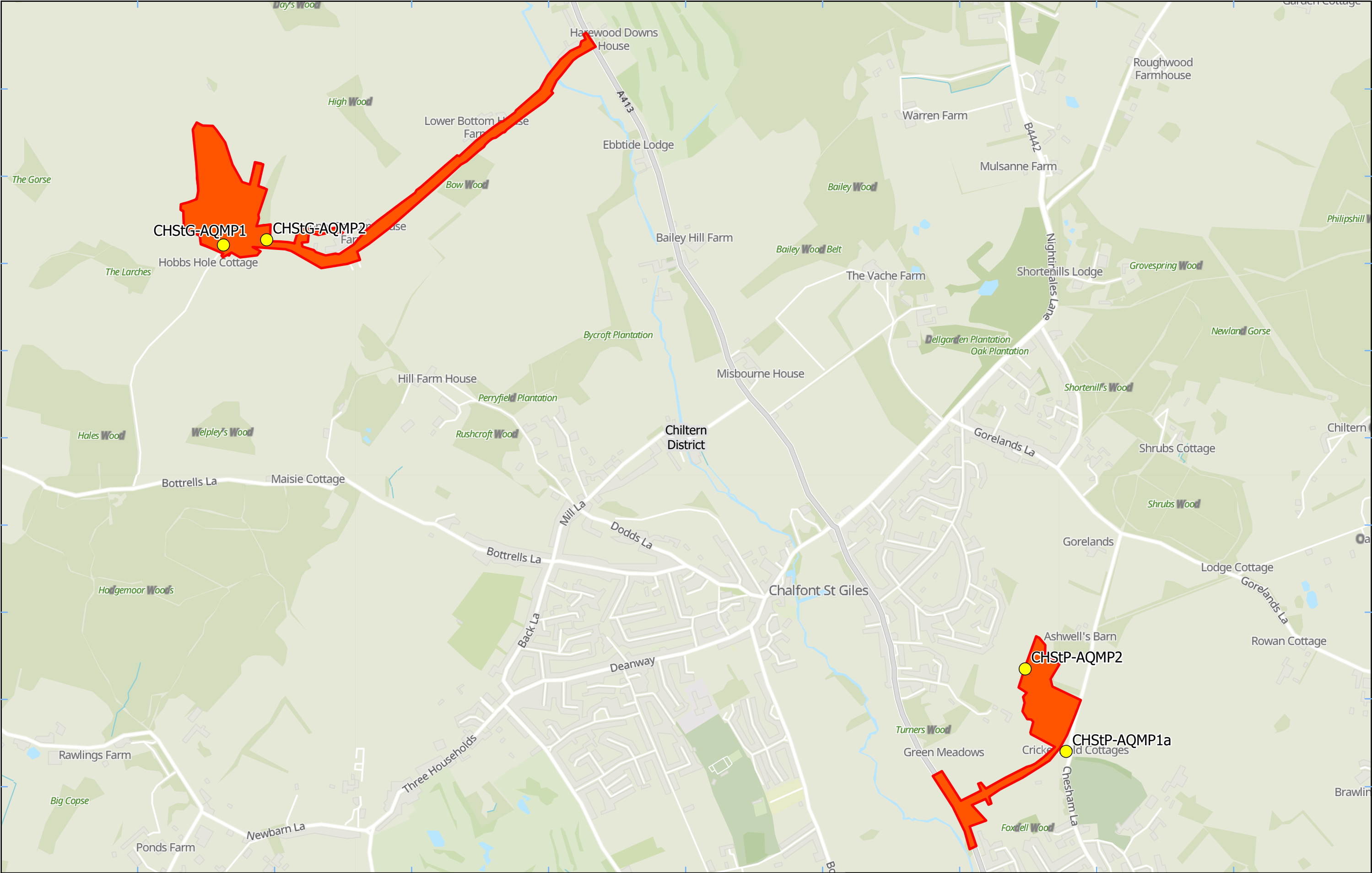


Scale at A3: 1:11,000



Metres

Date: 10/07/25



Legend

Dust Monitor District Borough Unitary Boundaries

Worksite

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

Map Number

Map Name

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

Buckinghamshire County

HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2025.
Ordnance Survey Licence Number 100049190.

Doc Number:

Scale at A3: 1:12,000

0 120 240 360 480

Metres

Date: 10/07/25



Legend
● Dust Monitor
□ District Borough Unitary Boundaries
■ Worksite

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

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



Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2025.
Ordnance Survey Licence Number 100049190.

Doc Number:

HS2 Ltd accept no responsibility for any circumstances, which
arise from the reproduction of this map after alteration,
amendment or abbreviation or if it is issued in part or issued
incomplete in any way.



Scale at A3: 1:5,000
0 50 100 150 200
Metres

Date: 10/07/25

Appendix B – Dust Monitoring Results

Table 2: 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 (%)
School Hill - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	7.4	1.0	46.0	0	100.0
School End – Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	27.1	4.0	99.0	0	100.0
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	6.5	1.0	30.0	0	100.0
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	6.5	1.0	29.0	0	99.9
Chetwode/Hermitage – Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	27.1	4.0	99.0	0	100.0
Turweston North - Dust	460439, 237140	Turweston, Buckinghamshire	M	Yes	Yes	7.2	1.0	29.0	0	100.0
Turweston East - Dust	460556, 238280	Turweston, Buckinghamshire	M	Yes	Yes	6.7	1.0	93.0	0	56.1
FCC - Dust	469042, 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	6.6	1.0	47.0	0	100.0
Ellesborough Road - Dust	486458, 207550	Ellesborough Road, Wendover	M	Yes	Yes	7.2	1.0	25.0	0	84.0
Bacombe Lane – Dust	486528, 207217	Bacombe Lane, Wendover	M	Yes	Yes	6.2	1.0	22.0	0	100.0
Station Road – Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	7.1	1.0	41.0	0	100.0

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 (%)
Wendover Compound- Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	6.3	1.0	23.0	0	100.0
Woodlands - Dust	471603, 221315	Quainton, Woodlands Farmhouse	M	Yes	Yes	8.8	1.0	54.0	0	99.9
CVV-AQMP1	503612, 189846	On the north boundary of LTP1	M	Yes	No	5.8	1.0	39.0	0	90.0
CHStP-AQMP1a	500093, 192996	Relocated from CHStP-NMP1 to site-boundary outside residence	M	Yes	Yes	5.4	1.0	24.0	0	87.1
CHStP-AQMP2	499951, 193282	On the western boundary of the site	M	Yes	Yes	4.4	1.0	24.0	0	97.8
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	6.4	1.0	24.0	0	94.6
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	5.4	1.0	25.0	0	100.0
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	6.7	1.0	33.0	0	97.4
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	6.6	1.0	31.0	0	92.1
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	5.7	1.0	28.0	0	92.5
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	6.4	1.0	24.0	0	99.5
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	6.0	1.0	23.0	0	100.0
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	7.3	1.0	25.0	0	94.0

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	17.2	8.1	65.9	0	100.0
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	7.0	0.3	33.4	0	99.5
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	20.0	7.9	60.7	0	100.0

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

