

Air Quality and Dust Monitoring Monthly Report – July 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 July 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 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 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-phys investigations and ground investigation and mitigation;
- Site Access Road and Mass Haul Route construction and maintenance: lime spreading and tarmac & concrete surfacing; and
- Roads utilisation: SAR utilisation and MHR utilisation.

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 Green Overbridge: - Steel fixing on diaphragms completed last week, formwork installed around diaphragms, concrete pour Friday last week, parapet lifting completed last week, steel deliveries.

- Turweston Viaduct: Backfill activates complete-surcharge period started, earthworks to install monitoring prisms (finished last week).
- Earthworks: Breaking out rock, removal of class 4 , running 1A1 from duo to twyford, moving scalping to twyford, running class 2 to turweston cutting landscape bund, deliveries of 6f8 on A422 south 1000t/day, duo crushing of 1A1/6p6.
- Turweston cutting: Soil engineering works, excavate and replace.

School End

- School End Overbridge: Deck Waterproofing, Barrier Collection, Demobillising.
- Chetwode Cutting North: Bulk Excavation north of the bridge.
- School End Highways: - Utility works on West Side.

Twyford

- Twyford Embankment: Surcharge (Scalping installation), 6F8 Placement.
- Twyford Viaduct: A0 Endwall steelfixing and formwork. A0 concrete, excavation. P1 Backfilling, Excavation around sheetpiles. A3 Endwall formwork and concrete, P2 Backfilling.

Hermitage

- Chetwode Cutting South: 6F8 Layer installation
- CHW18 Earthworks- Bulk Excavation north of structure, 1A1 Placement.
- CHW18 Highways- Approach Embankment works on the East Side.
- Use and Diversion of Mass Haul Road.

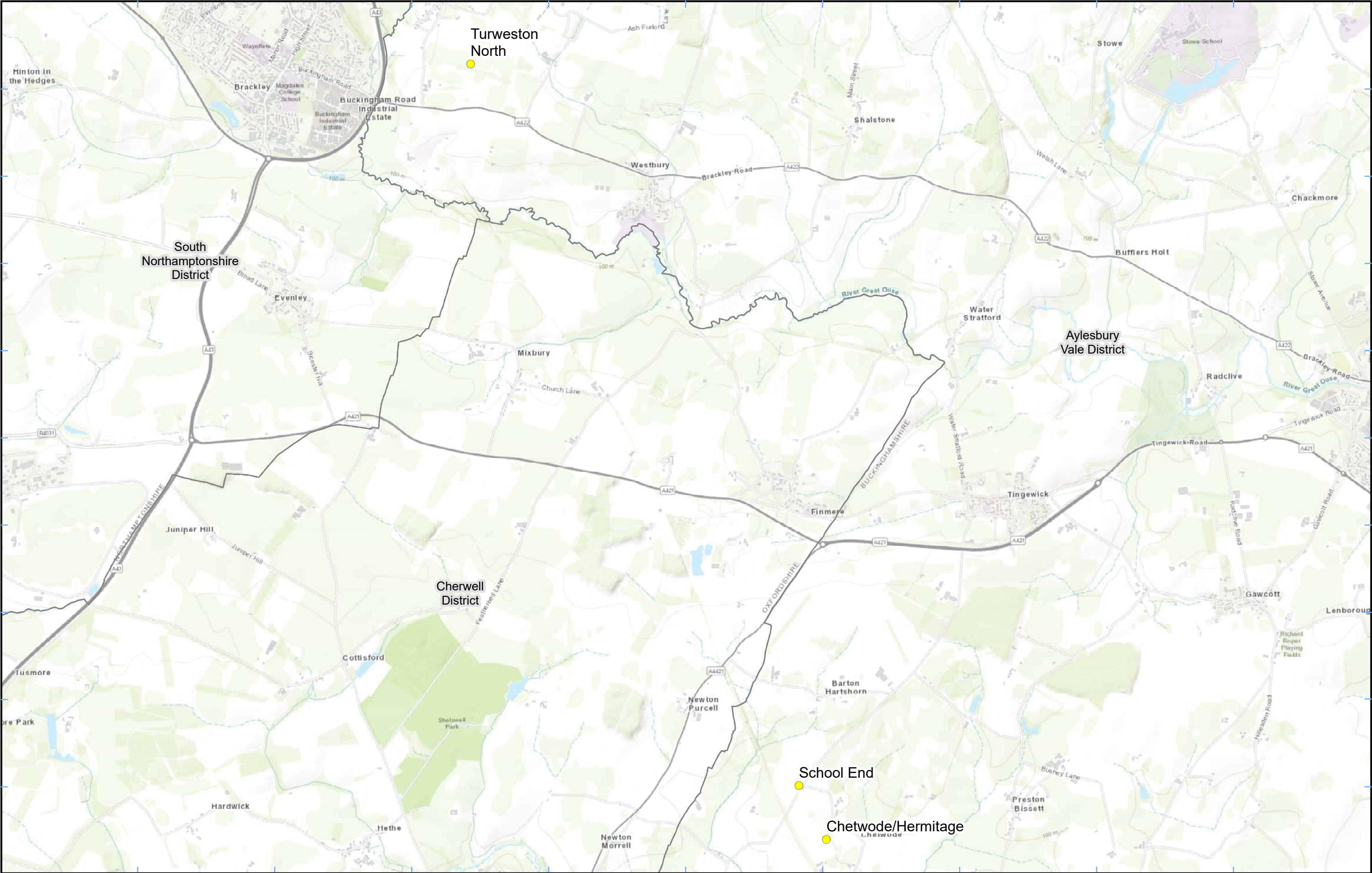
- 1.1.5 Thirty-two (32) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented 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 (July 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:

- CHStG-AQMP1, which was removed from mains power on the 11th of July and reinstated onto solar power on the 16th of July.
- LMS-AQMP2 which was disconnected from power during landscaping works on the 1st of July and reinstated on the 14th of July.
- NP-AQMP1 which was disconnected on the 12th as the monitor was removed from the fence by ALIGN staff whilst new spoil heap was created. The electrician then reinstalled this on the 25th of July.
- Grimms Ditch, Grove Farm and Small Dean Viaduct were retrieved on 10th July 2025.
- Wendover Bus 55, Nash Lee Road and Nash Lee Lane monitors were retrieved on 17th July 2025.

1.1.10 There were no (0) complaints received during the reporting period (July 2025).

Appendix A – Worksite and Dust Monitoring Locations

Figures 1-7: Worksite and Monitoring locations within BC



Dust Monitor

District Borough Unitary Boundaries

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Map Number

Map Name

Buckinghamshire County

Monitoring Locations
In BC (Sheet 1)

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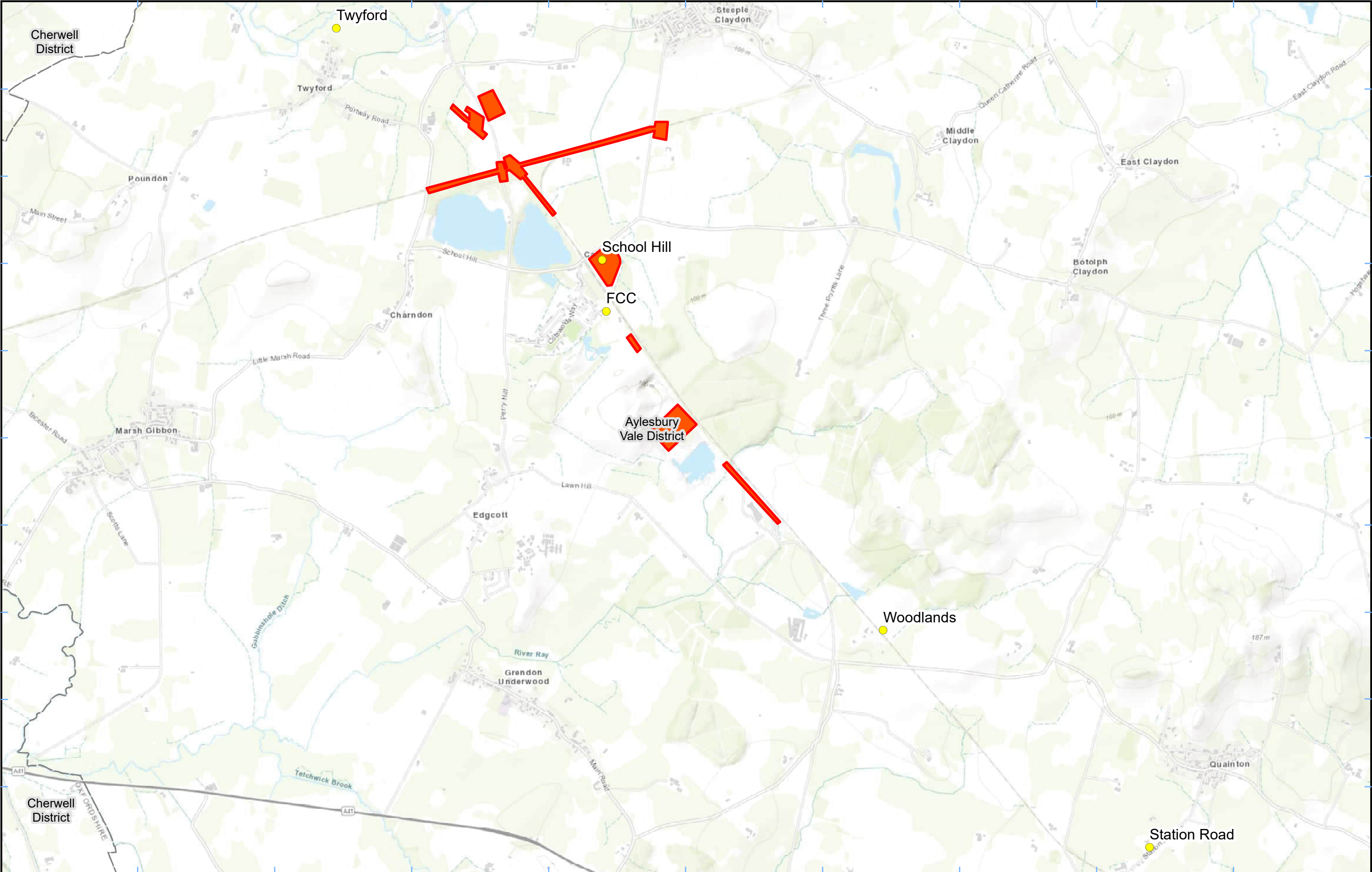
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Metres

Date: 06/07/23



Legend

Dust monitor

District Borough Unitary Boundaries

Worksite

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number

Map Name

Worksite & Monitoring Locations
In BC (Sheet 2)

Buckinghamshire County

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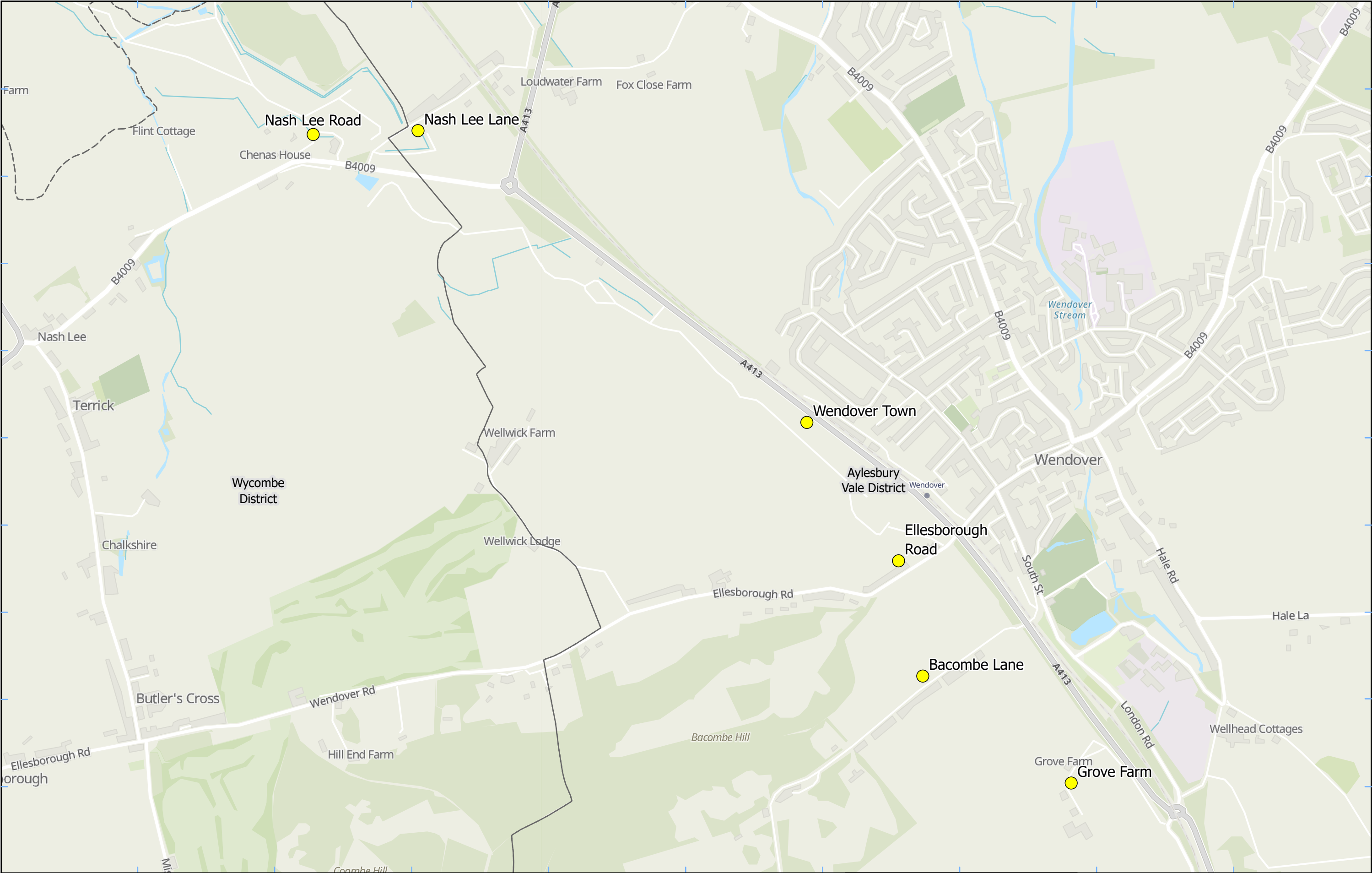
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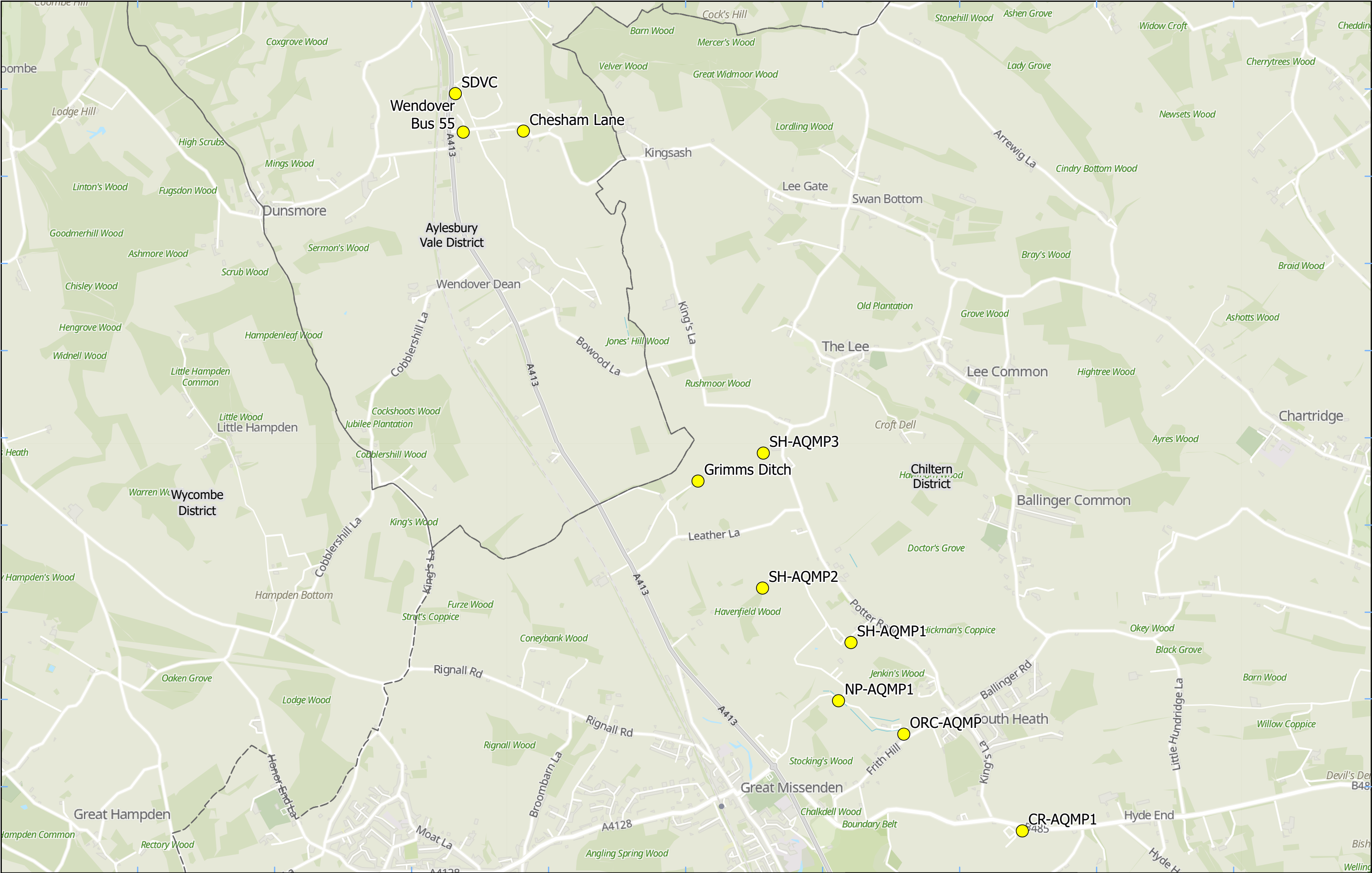
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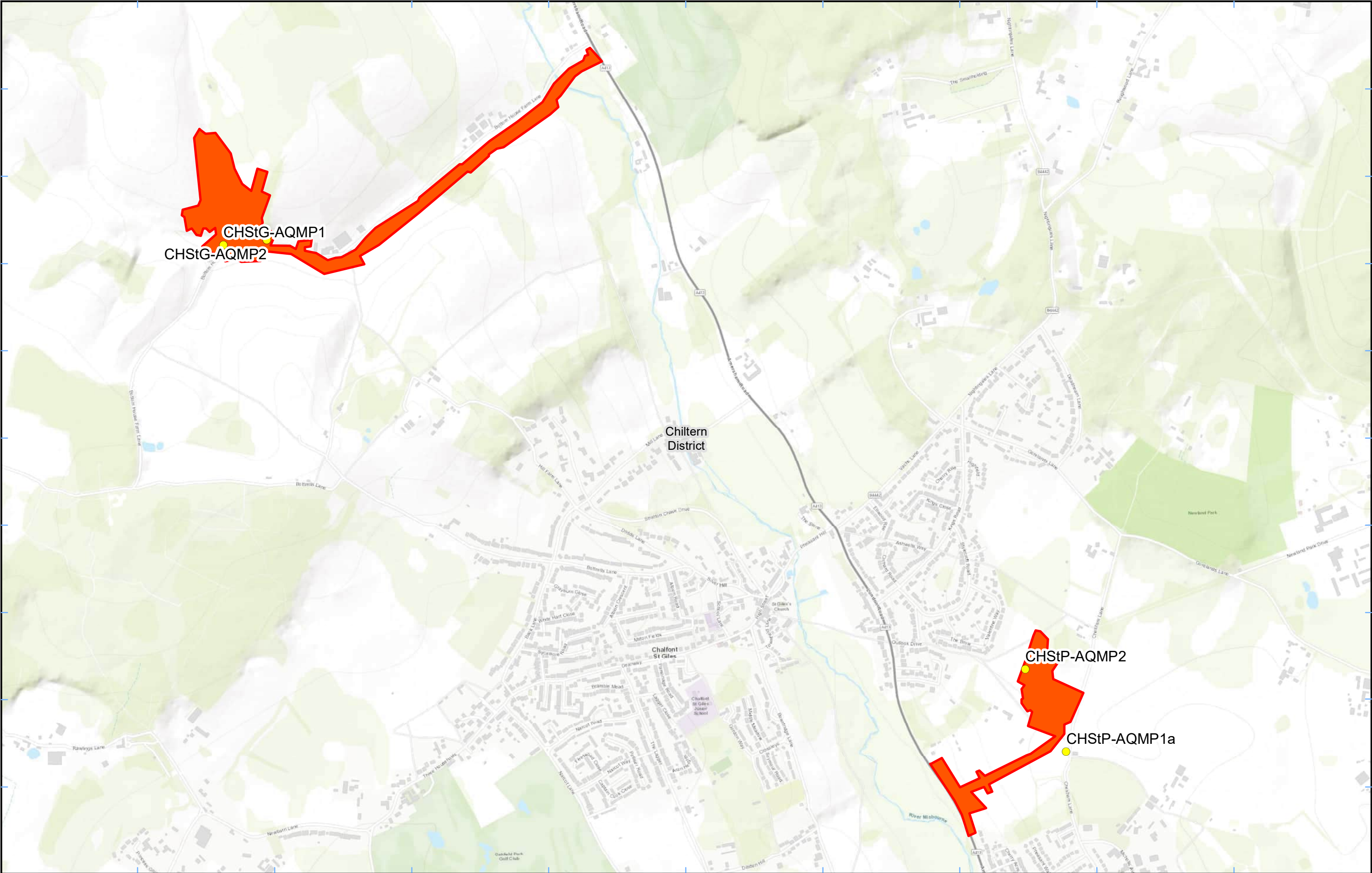
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Legend  Dust Monitor  District Borough Unitary Boundaries Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023 Contains data from OS Zoomstack	<table><tr><td>Map Number</td></tr><tr><td>Map Name</td></tr><tr><td>Monitoring Locations In BC (Sheet 4)</td></tr><tr><td>Buckinghamshire County</td></tr></table>	Map Number	Map Name	Monitoring Locations In BC (Sheet 4)	Buckinghamshire County	<table><tr><td> 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 2024. Ordnance Survey Licence Number 100049190. Doc Number: </td><td> Scale at A3: 1:23,000  Metres Date: 24/09/24 </td></tr></table>	 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 2024. Ordnance Survey Licence Number 100049190. Doc Number:	 Scale at A3: 1:23,000  Metres Date: 24/09/24
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Legend

Dust Monitor District Borough Unitary Boundaries

Worksite

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Map Number
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Monitoring Locations In BC (Sheet 6)
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● 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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Metres

Date: 12/10/23

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	4.7	1.0	41.0	0	98.4
CHStP-AQMP1a	500093, 192996	Relocated from CHStP-NMP1 to site-boundary outside residence	M	Yes	Yes	4.1	1.0	36.0	0	97.4
CHStP-AQMP2	499951, 193282	On the western boundary of the site	M	Yes	Yes	3.2	1.0	33.0	0	95.6
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	6.1	1.0	36.0	0	100.0
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	4.6	1.0	36.0	0	80.4
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	5.5	1.0	42.0	0	95.7
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	6.5	1.0	49.0	0	98.4
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	6.3	1.0	39.0	0	57.8
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	5.2	1.0	37.0	0	98.0
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	5.4	1.0	43.0	0	99.9

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 (%)
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	6.3	1.0	34.3	0	57.3
SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	17.6	8.9	61.3	0	100.0
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	7.4	6.3	12.3	0	99.9
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	20.5	8.6	76.5	0	100.0
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	6.0	1.0	53.0	0	100.0
School End - Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	24.8	6.0	108.0	0	100.0
Grimms Ditch - Dust	489135, 203468	Leather Lane, The Lee, South Heath	M	Yes	Yes	3.4	1.0	10.0	0	30.5
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	5.4	1.0	42.0	0	100.0
Wendover Bus 55 - Dust	487574, 205787	Chesham Lane, The Lee, Wendover	M	Yes	Yes	4.1	1.0	13.0	0	53.2
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	5.7	1.0	47.0	0	100.0
Chetwode/Hermitage - Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	24.8	6.0	108.0	0	100.0
Turweston North - Dust	460439, 237140	Turweston, Buckinghamshire	M	Yes	Yes	22.6	1.0	102.0	0	98.7
FCC - Dust	469042, 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	5.4	1.0	58.0	0	100.0
Ellesborough Road - Dust	486458, 207550	Ellesborough Road, Wendover	M	Yes	Yes	5.9	1.0	47.0	0	100.0
Nash Lee Road - Dust	484766, 208782	Nash Lee Lane (west)	M	Yes	Yes	4.9	1.0	15.0	0	53.1

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 Lane - Dust	485069 , 208793	Nash Lee Lane (east)	M	Yes	Yes	5.7	1.0	42.0	0	53.0
Bacombe Lane – Dust	486528 , 207217	Bacombe Lane, Wendover	M	Yes	Yes	5.0	1.0	39.0	0	99.9
SDVC – Dust	487522, 206043	Small Dean Viaduct, London Road	M	Yes	Yes	3.7	1.0	11.0	0	31.0
Station Road – Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	5.7	1.0	46.0	0	100.0
Wendover Town - Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	5.7	1.0	39.0	0	100.0
Woodlands - Dust	471603, 221315	Station Rd, Quainton, Woodlands Farmhouse	M	Yes	Yes	7.2	1.0	50.0	0	100.0
Grove Farm	486957, 206908	Grove Farm, London Road, Wendover	M	Yes	Yes	4.6	1.0	17.0	0	30.6

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

