

Air Quality and Dust Monitoring Monthly Report – November 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.

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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 November 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 all the blinding for the culverts and headwalls.
- Installed 17no. precast culvert units.
- Commenced internal jointing of the precast units.

Rocky Lane Ditch Slab

- Completed temporary fill of the ditch in preparation for the ditch slab formwork

Ellesborough Road

- 109no. in Phase 2
- Construction of 130 lin. meters of invert slab in Phases 2 & 3
- Gantry erection finalised for WGT South.

Bacombe Lane

Grove Farm Underbridge:

- Waterproofing to Grove Farm Underbridge
- Construction and opening of access road through Grove Farm Underbridge
- Grove Farm Culvert:
- Back grouting of Tunnel Rings.
- Installation of Silimpa Foam to seal TBM.
- Commencement of grouting Tunnel voids.
- Delivery of PCC segments and installation commenced for the Grove Farm Attenuation Tank.

Wendover Compound

Wendover North Portal:

- LPW water tank has been demolished and the base removed.
- Site continues receiving stone from different locations.
- Duo continued stone crushing works.
- Excavated the remaining LPW slurry plant platform, preparing the area for Blackwell's permanent works.

Wendover Green Tunnel

- Ongoing installation of rockfall protection system in Phase 4
- circa. 95 linear meters of blinding cast in Phase 3
- Precast Installation:
- 180no. segments installed in total
- 13no. in Phase 1
- 58no. in Phase 3
- Phase 3 EDO started (Panels A,B,C,D installed, panel B stitch cast)
- Invert Slab & Tunnel FRC:
- Construction of 130 lin. meters of invert slab in Phases 2 & 3
- Reinforcement fixing for phase 1 outer derailment walls

Waterproofing:

- Circa. 40m underblinding waterproofing in phase 3
- 35m overtunnel waterproofing in phase 3

Break from Highway:

- Drainage spine installed, switchover from original to new path completed
- Bulk dig to formation, capping and rough subbase installation
- Plaza drainage started
- Supporting Works:
- Installation of M&E equipment into tunnel.

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
- Earthworks: Breaking out rock –ongoing, Running Class 2 to Turweston cutting landscape bund – ongoing. Central excavation replace - A422-TGOB ongoing. Drainage north of TGOB 6F8 - installation near TGOB access
- Turweston Green Overbridge: Scaffolding works around wingwalls, Steel fixing prefab steel for Northeast 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 – ongoing.

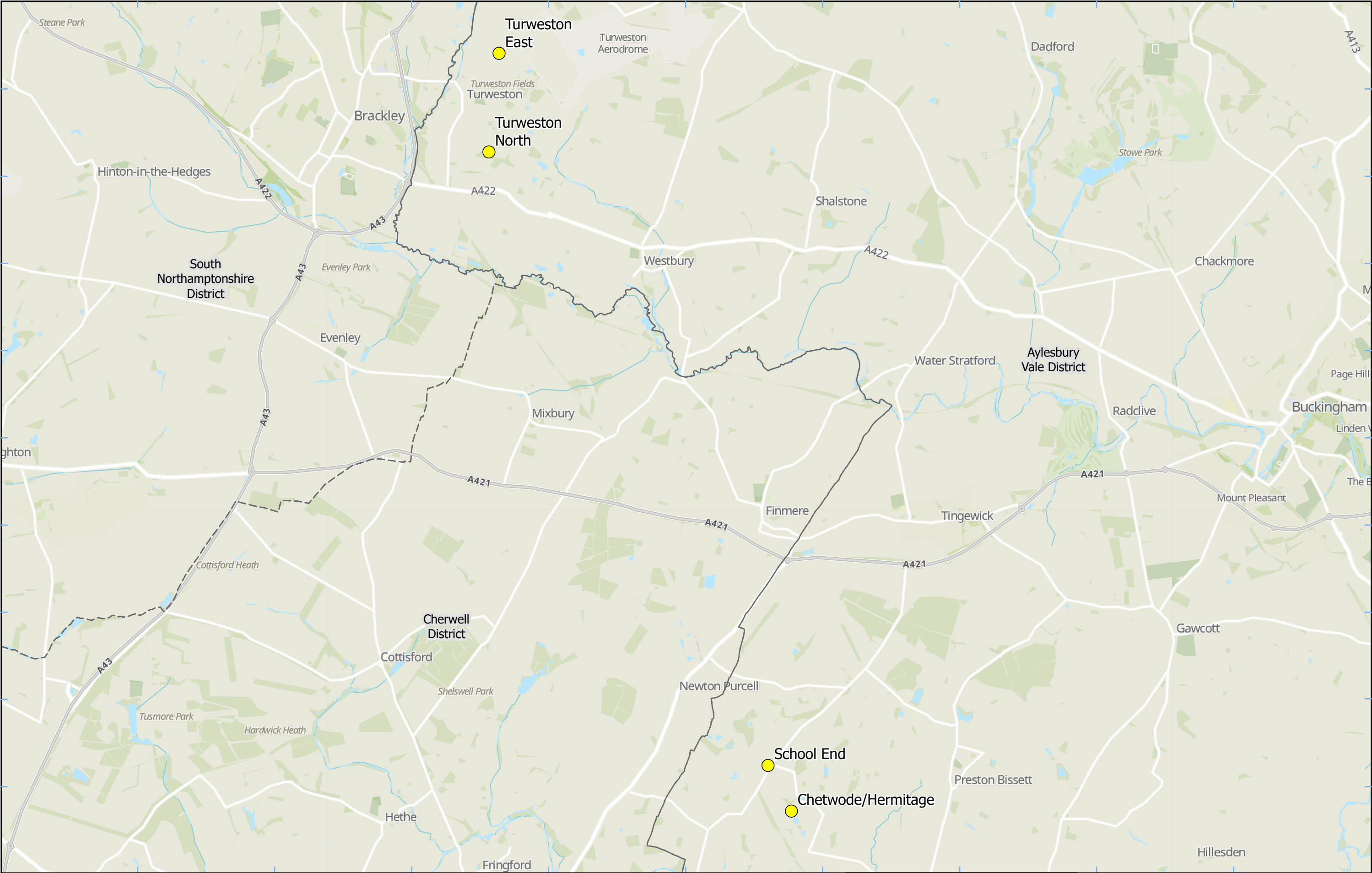
- 1.1.5 Twenty-six (26) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented 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 (November 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.
 - AMER-AQMP1 has also had power removed as part of the decommissioning of the site. Align are investigating if the monitor can be moved to a location with power or for a solar set up.
 - SH-AQMP1 was caused by a faulty connection with the solar panel, which was fixed on the 3rd of November.

- No data capture at Chesham Lane for November 2025 due to dust monitor temporarily removed for winter period.
- Ellesborough Road had intermittent data capture throughout the month due to a battery depletion/fault.
- Bacombe Lane had intermittent data capture throughout the month due to a battery depletion/fault.
- Wendover Compound had intermittent data capture throughout the month due to a battery depletion/fault.
- School Hill had missing data from 27th November 2025 due to monitor fault and was retrieved for investigation.
- School End was temporarily removed for winter period on 19th November 2025.
- No data capture at Twyford for November 2025 due to monitor issue and retrieved for investigation and repair.
- Chetwode Hermitage was temporarily removed for winter period on 19th November 2025.
- Turweston North had intermittent data due to a battery fault. Dust monitor temporarily removed for winter period on 19th November 2025.
- Turweston East was temporarily removed for winter period on 19th November 2025.

1.1.10 There were no (0) complaints received during the reporting period (November 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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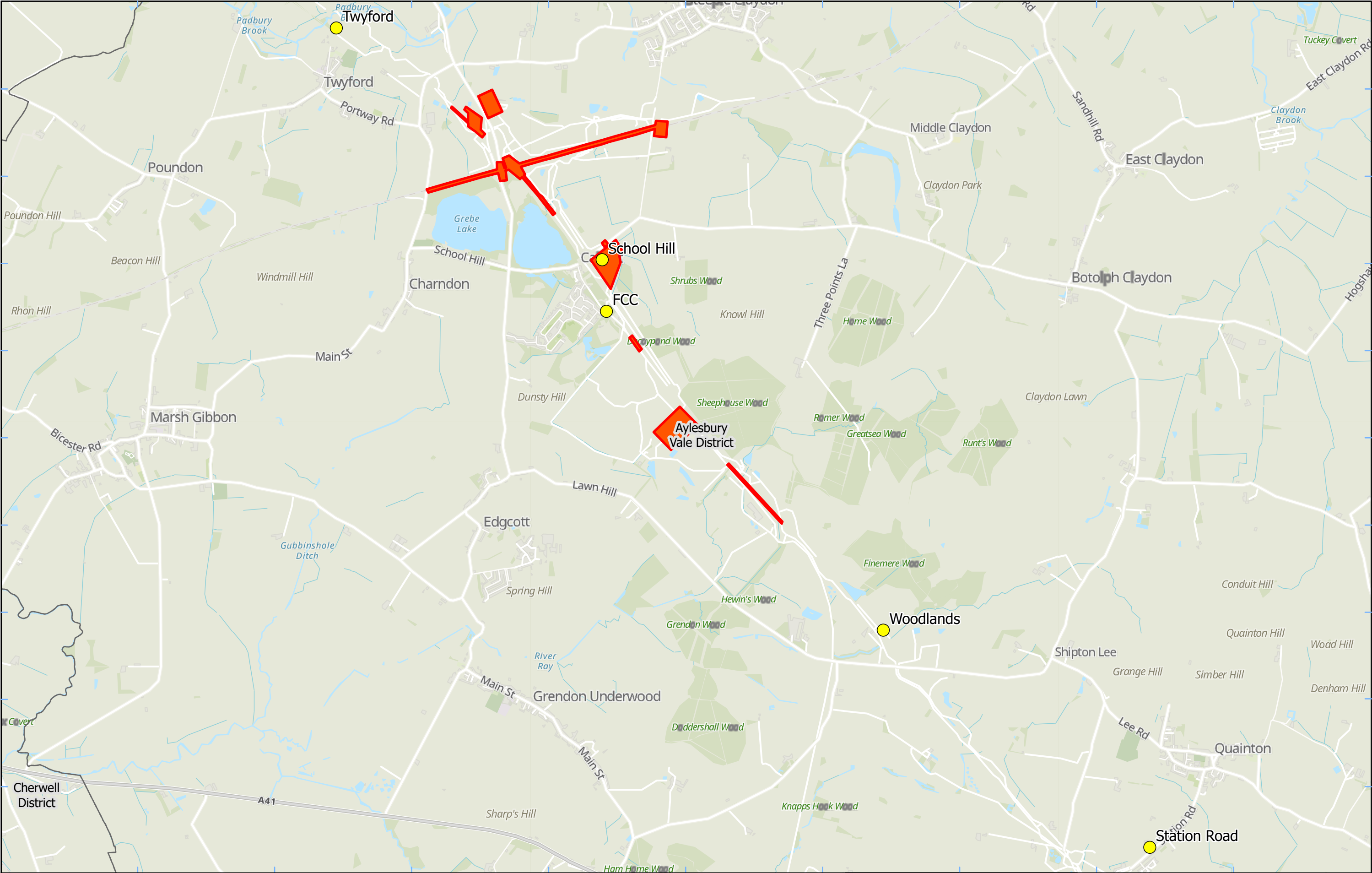


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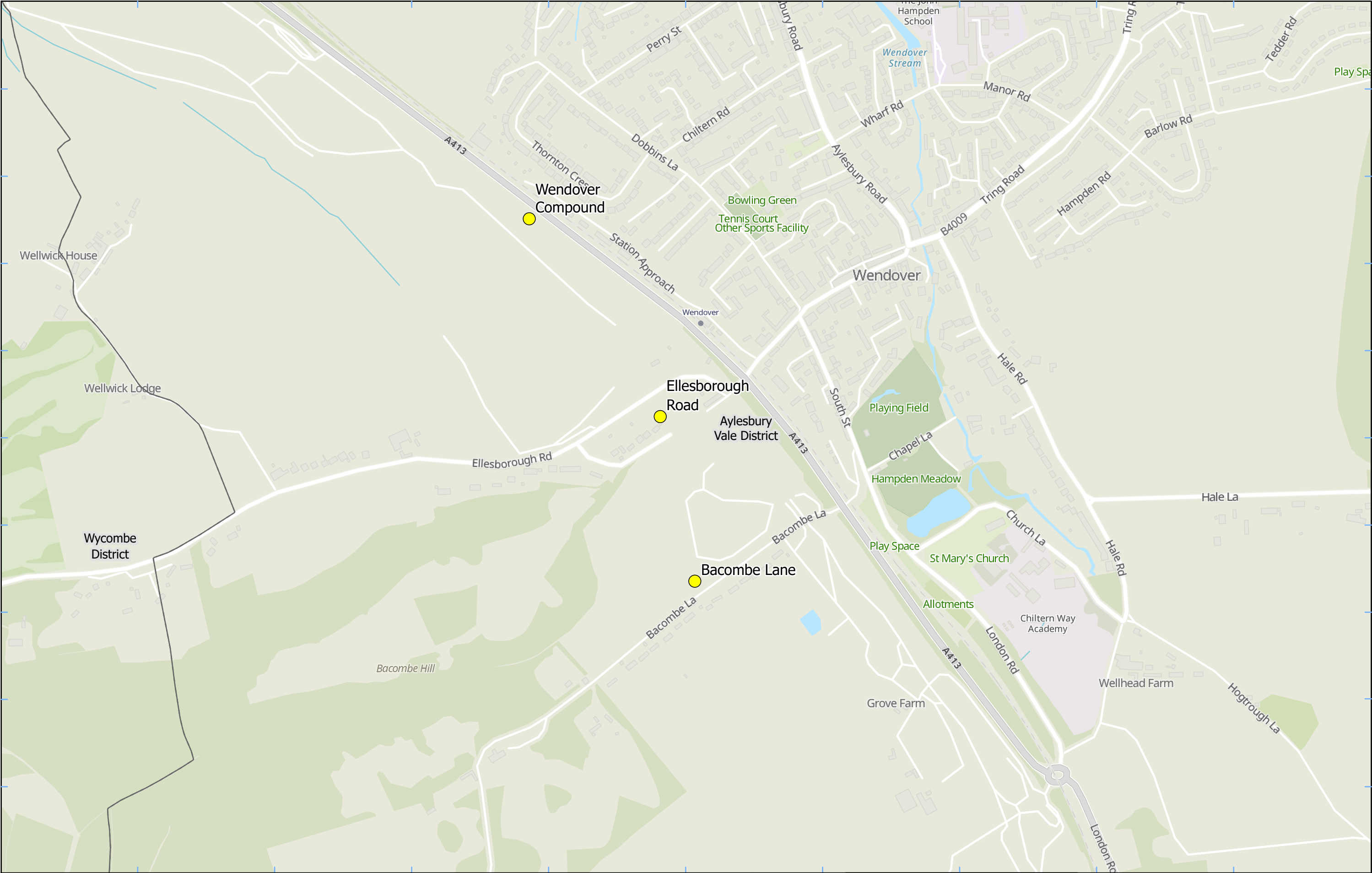


Metres

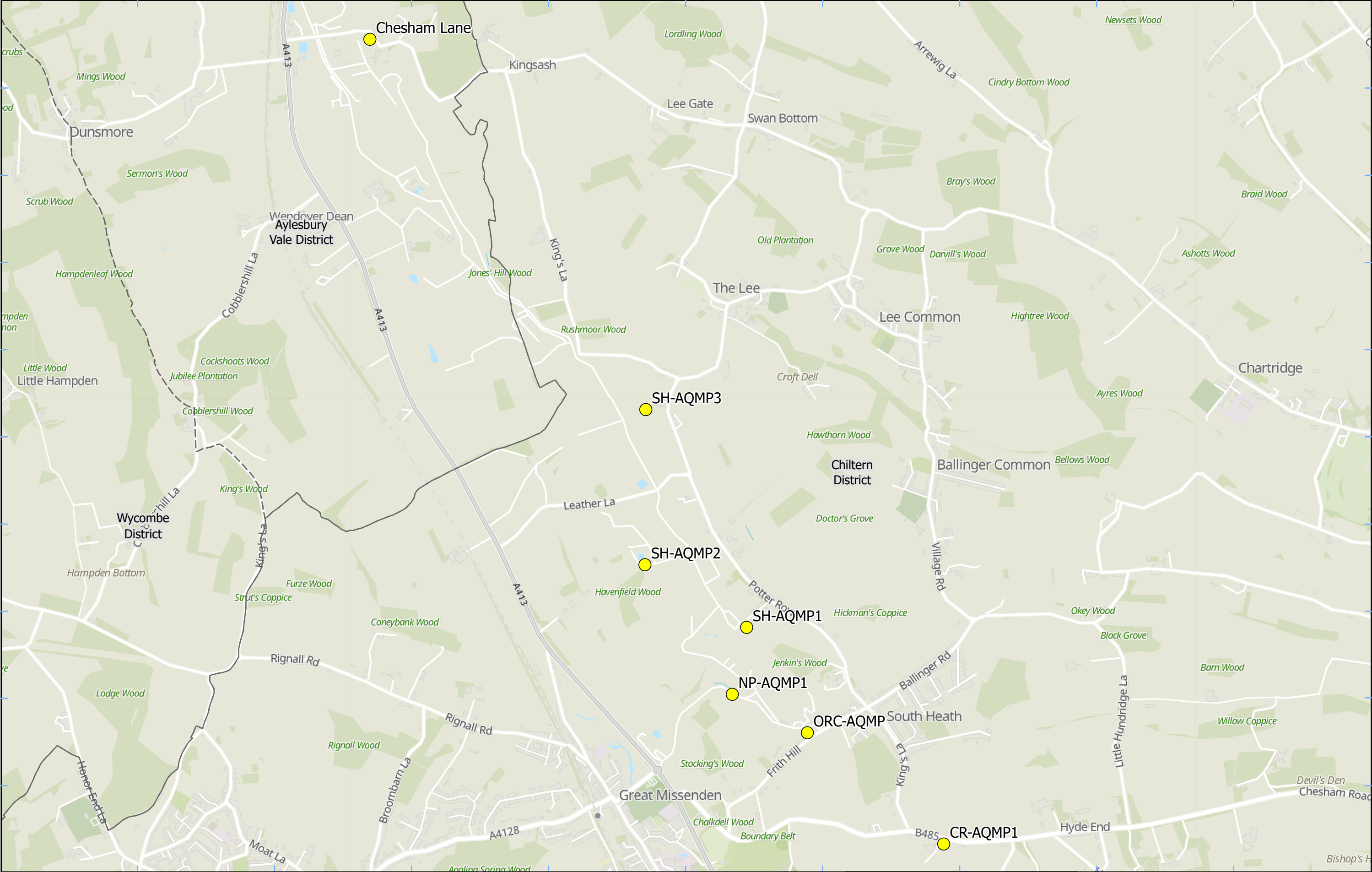
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	Monitoring Locations In BC (Sheet 3)	
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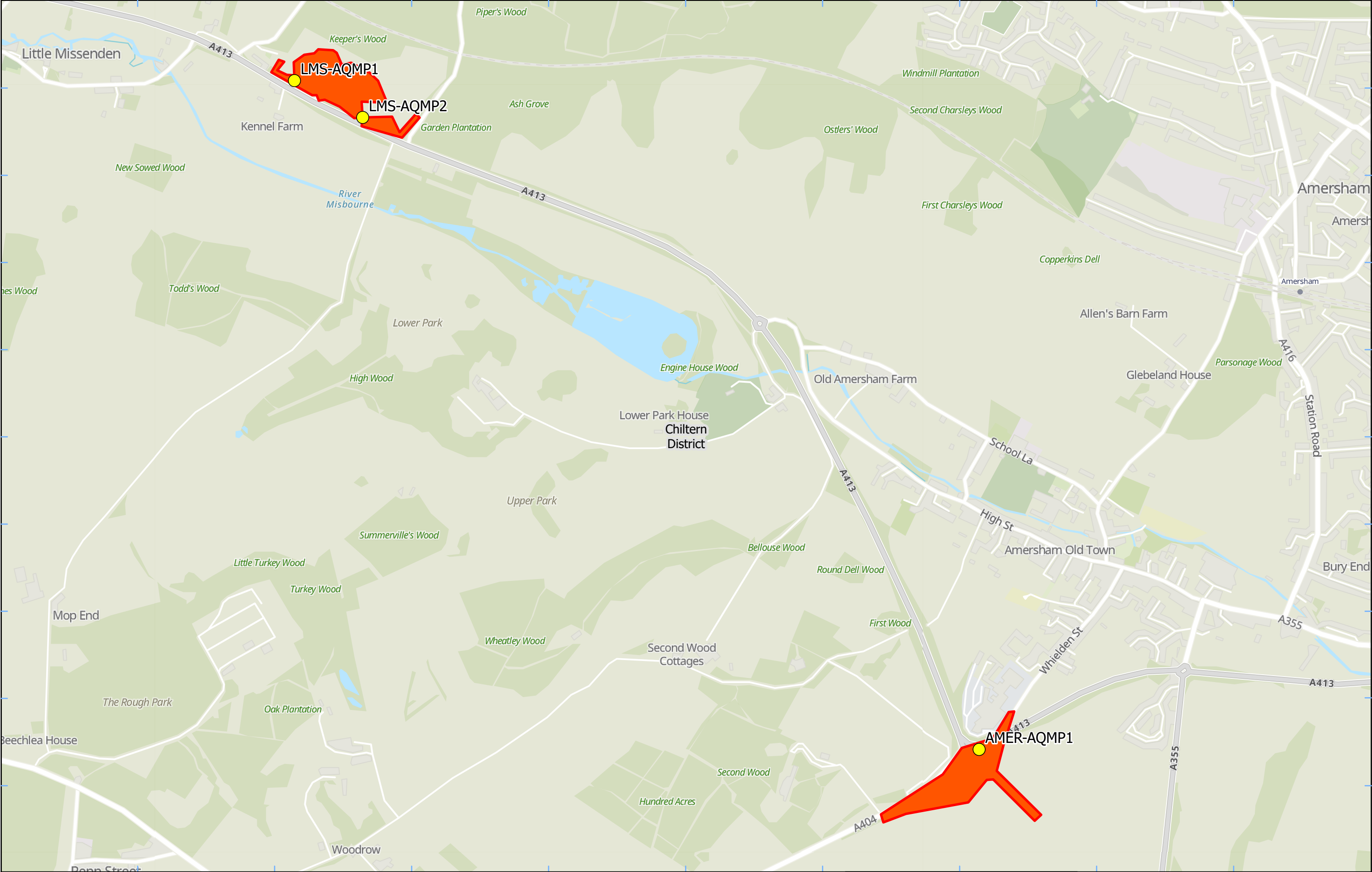
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Date: 10/07/25



Legend

Dust Monitor

Worksite

District Borough Unitary Boundaries

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Map Number

Map Name

**Worksite and Monitoring Locations
In BC (Sheet 5)**

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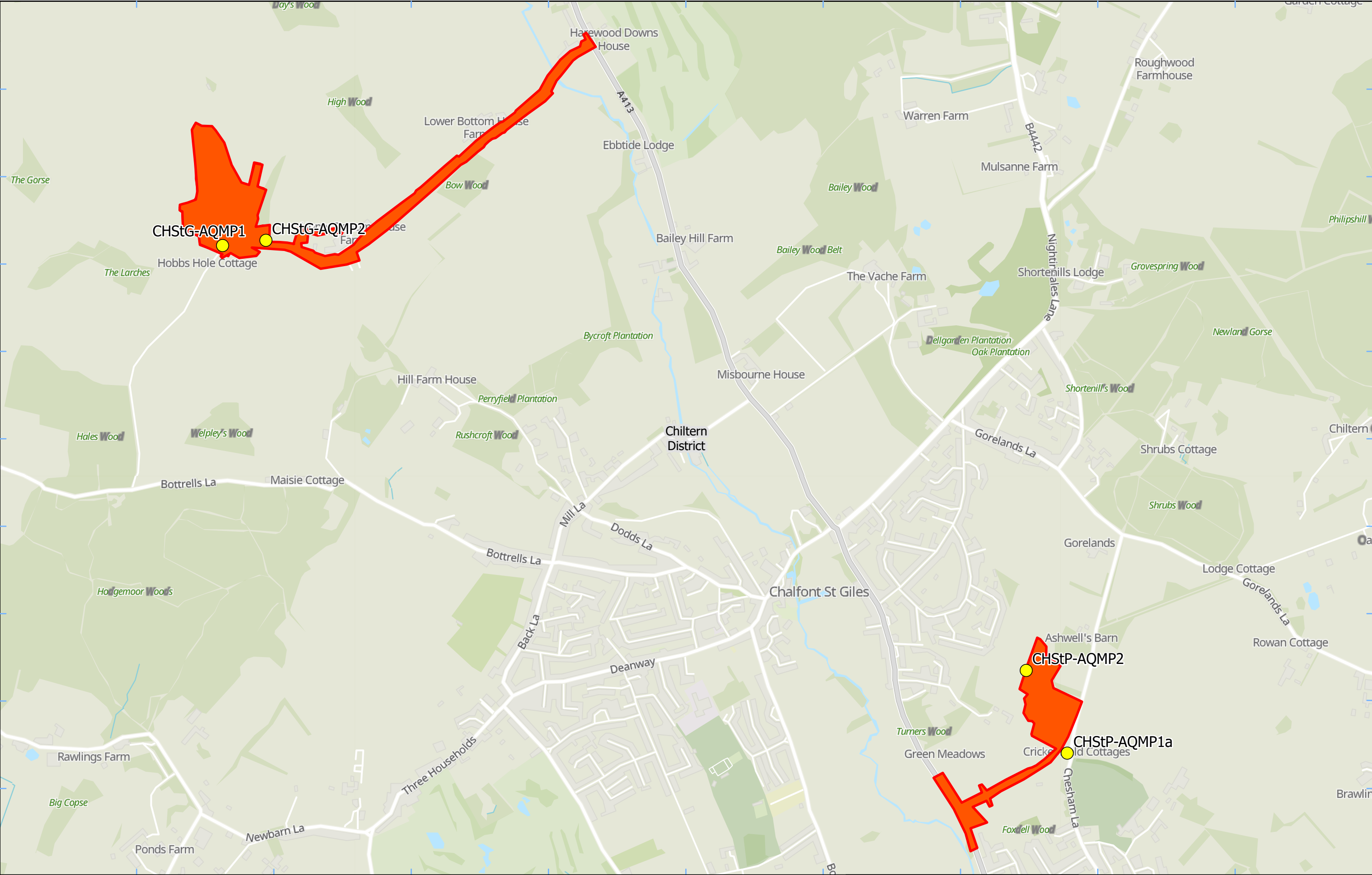
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Legend

 Dust Monitor  District Borough Unitary Boundaries

 Worksite

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Map Number
Map Name
Worksite 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	M	Yes	Yes	-	-	-	-	-
CHStP-AQMP2	499951, 193282	On the western boundary of the site	M	Yes	Yes	5.0	1.0	8.0	0	11.9
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	6.2	1.0	41.0	0	81.5
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	4.8	1.0	22.0	0	100.0
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	5.5	1.0	26.0	0	100.0
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	5.9	1.0	86.0	0	98.0
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	6.8	1.0	135.0	0	99.0
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	5.7	1.0	28.0	0	99.0
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	5.3	1.0	37.0	0	98.0
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	5.4	1.0	80.0	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 (%)
SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	8.5	0.6	48.2	0	86.3
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	8.9	0.6	77.5	0	98.1
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	21.7	7.9	142.2	0	99.0
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	8.5	1.0	35.0	0	87.1
School End – Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	10.1	1.0	45.0	0	62.2
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	-	-	-	-	-
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	-	-	-	-	-
Chetwode/Hermitage – Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	14.5	1.0	44.0	0	62.1
Turweston North - Dust	460439 , 237140	Turweston, Buckinghamshire	M	Yes	Yes	5.4	1.0	13.0	0	25.1
Turweston East - Dust	460556, 238280	Turweston, Buckinghamshire	M	Yes	Yes	5.5	1.0	17.0	0	56.4
FCC - Dust	469042 , 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	5.3	1.0	23.0	0	96.3
Ellesborough Road - Dust	486458 , 207550	Ellesborough Road, Wendover	M	Yes	Yes	5.8	1.0	21.0	0	55.3
Bacombe Lane – Dust	486528 , 207217	Bacombe Lane, Wendover	M	Yes	Yes	5.2	1.0	17.0	0	65.3
Station Road – Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	5.4	1.0	30.0	0	96.7
Wendover Compound- Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	5.3	1.0	17.0	0	69.3

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	4.4	1.0	17.0	0	94.2

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

