

Air Quality and Dust Monitoring Monthly Report – May 2026

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 May 2026.
- 1.1.2 Figures 1-6 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 1-6, 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 street works – 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 to Aylesbury

- Bowood Lane - East haul road crossing removal, PRow diversion, Drainage Install BW east
- TLE02 - Block work walls
- C2.T.5-Drainage - POI-024 to POI-023 750mm pipe install.
- Rocky Lane -Back of Wall block wall install
- Spring Chamber - Completed - manholes, V ditch
- **AC7 Culvert** - Dug to formation
- **ELL20** - Back of wall drainage commenced, Waterproofing commenced, AC9 Culvert backfilled
- **NLOB** - Cheek wall steel installation commenced
- Wendover Dean Viaduct - Striking propping Bays 5-16, Top deck pour 14-reinforcement/carpentry completed, Top deck pour 14 - Pour completed, Removing struck propping on the top deck with crane, Continuing sealing top planks, Coring top planks for drainage preparation ongoing, Abutment A10 Transition Structure commenced steel fixing

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
- 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
- Westbury Embankment
- Westbury Viaduct
- Grovehill Embankment
- A422 Overbridge
- Turweston Embankment
- Turweston Viaduct
- Helmdon Embankment.

Twyford to Greatworth

Turweston

- Construction of TUW 9 Birdleway
- Excavate and replace Turweston Cutting.
- Haulage along the SAR.

School End

- Chetwode Cutting- Attempted removal of sheet piles
- Chetwode Cutting Landscape Bund west side construction (north of SEOB)
- Use and maintenance of MHR and SAR.
- Compound Maintenance.
- Water management / pumping activities.

Twyford

- Twyford Cutting- Reinstatement of batter toes.
- PBI-5A Overbridge- A3 Wingwall foundation concrete, Mekina panel installation, Falsework deck installation.
- Twyford Viaduct- Waterproofing, Noise Barrier Wingwall, steel fixing, formwork, concrete pour, Doka Deliveries.
- Twyford Embankment- Shear Key excavation, core bund footprint clearance, landscape earthwork installation.
- Use and maintenance of MHR and SAR.
- Water management / pumping activities.
- Overpumping and excavation of Twyford MAS.

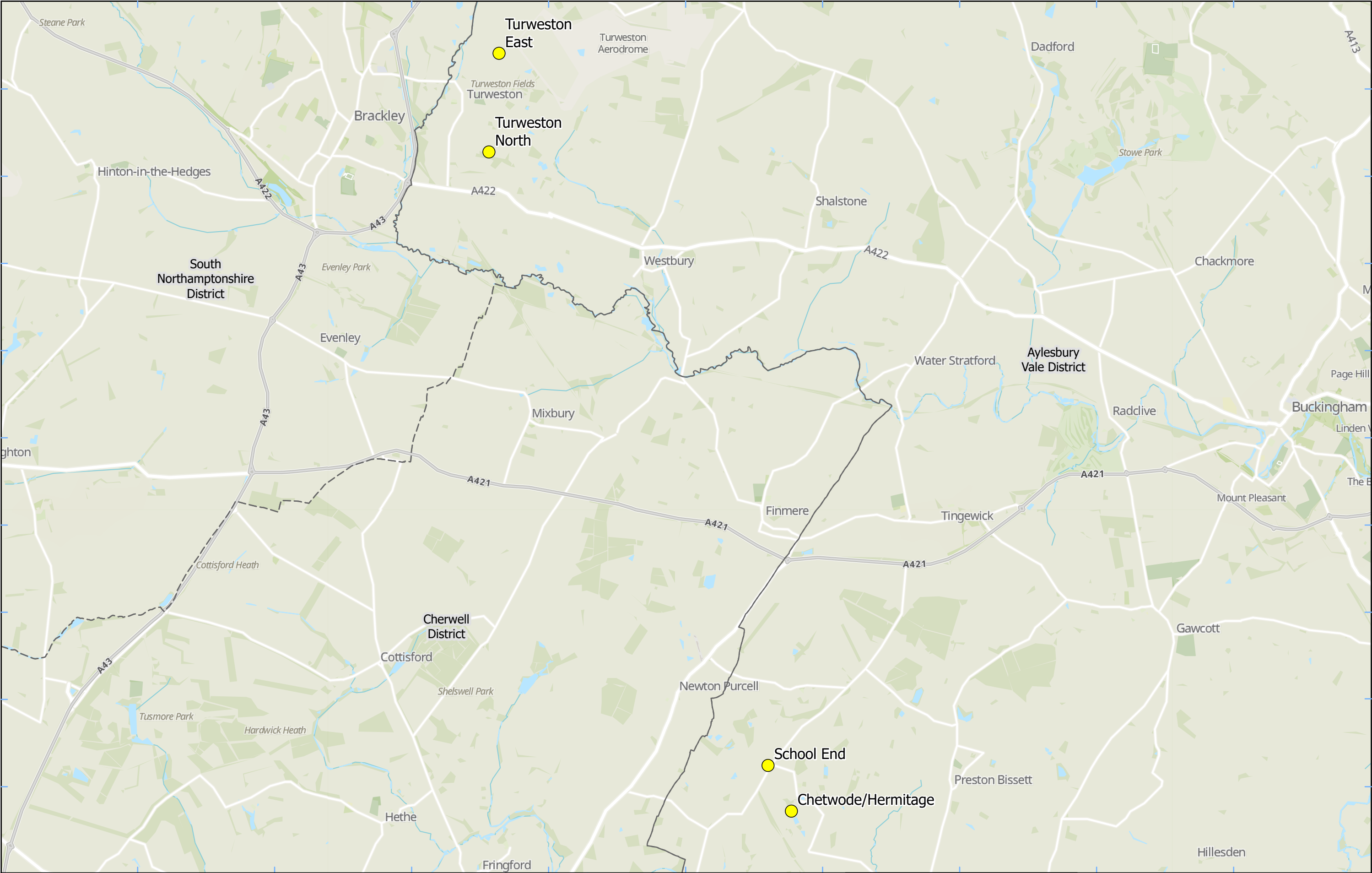
Hermitage

- Chetwode South- Track Drainage Installation.
- Trimming of Chetwode Embankment prior to stabilisation.
- CHW18 Road Realignment- West Side permanent works, Tarmac Stockpile removals.
- CHW18 Utilities on the East side.
- Use and maintenance of MHR and SAR.
- Water management / pumping activities.

- 1.1.5 Twenty - five (25) 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 7. 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 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- CHStP-AQMP1a and CHStG-AQMP2 are due to power being removed from the site. Align have yet to relocate and supply power to CHStP-AQMP1a but have installed for CHStG-AQMP2 on the 7th of May.
 - CR-AQMP1 suffered from sporadic connectivity issues on the 25th, 29th and 30th of May.
- 1.1.10 There were no (0) complaints received during the reporting period (May 2026).

Appendix A – Worksite and Dust Monitoring Locations

Figures 1-6: 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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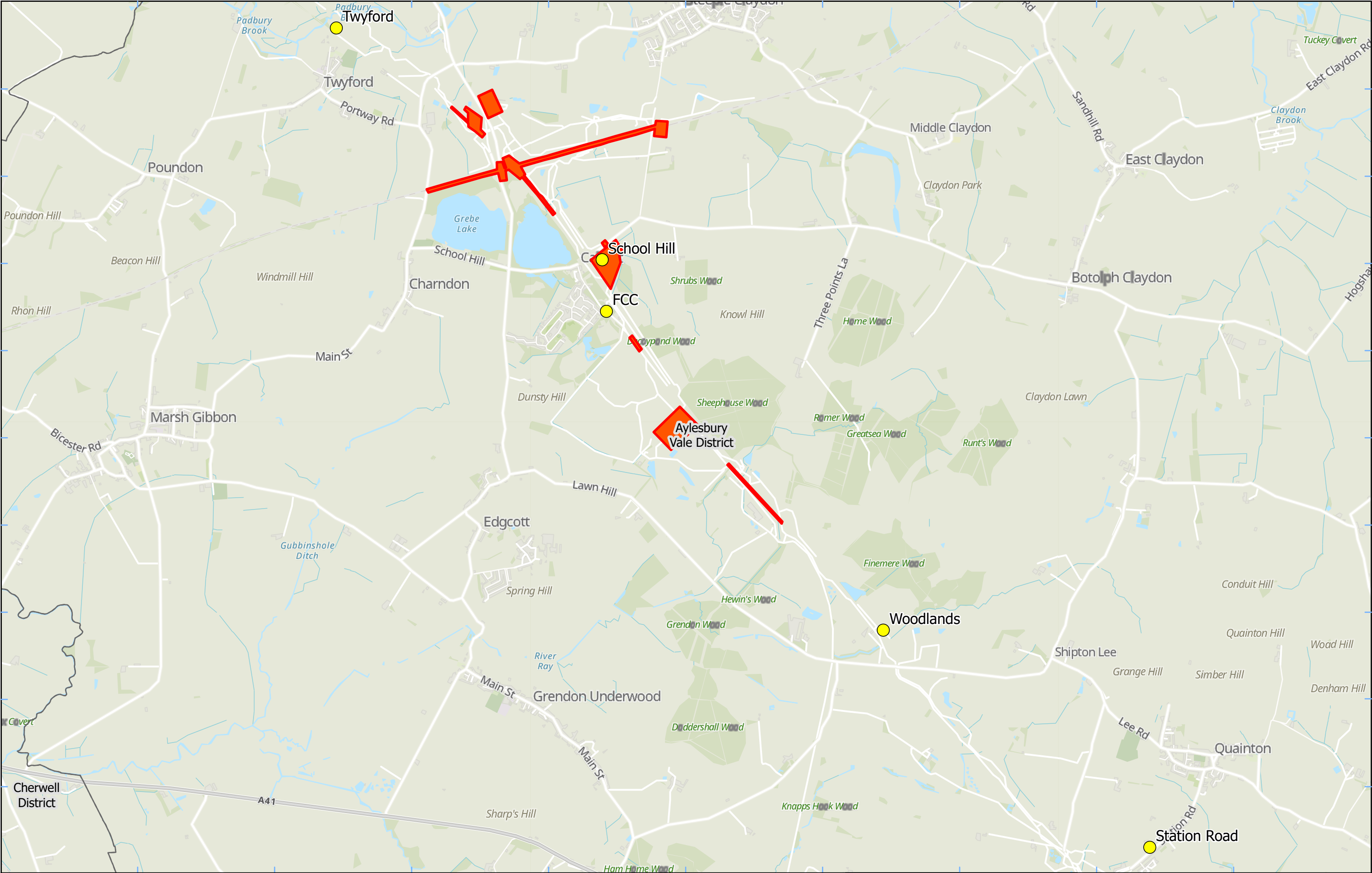
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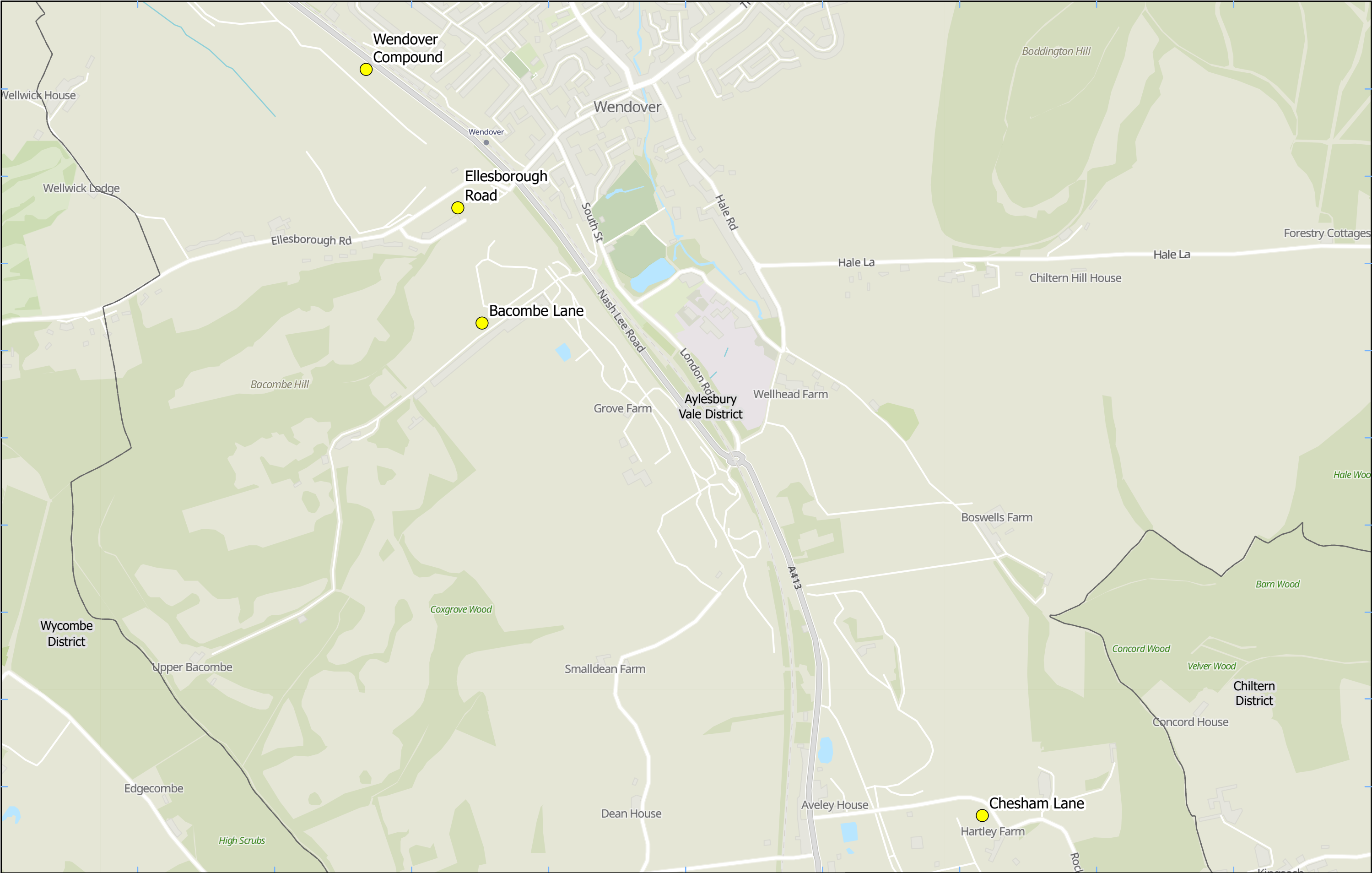
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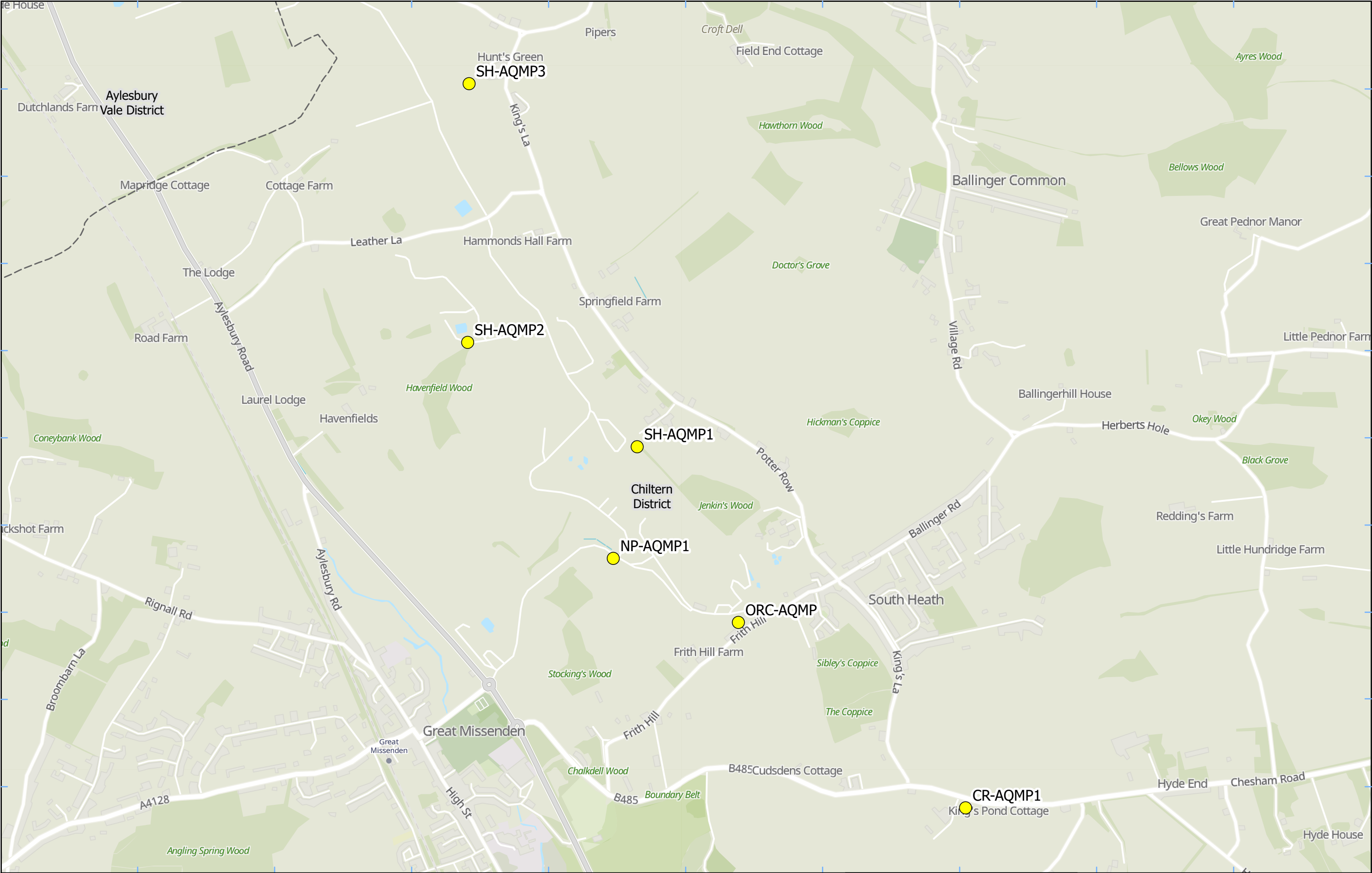
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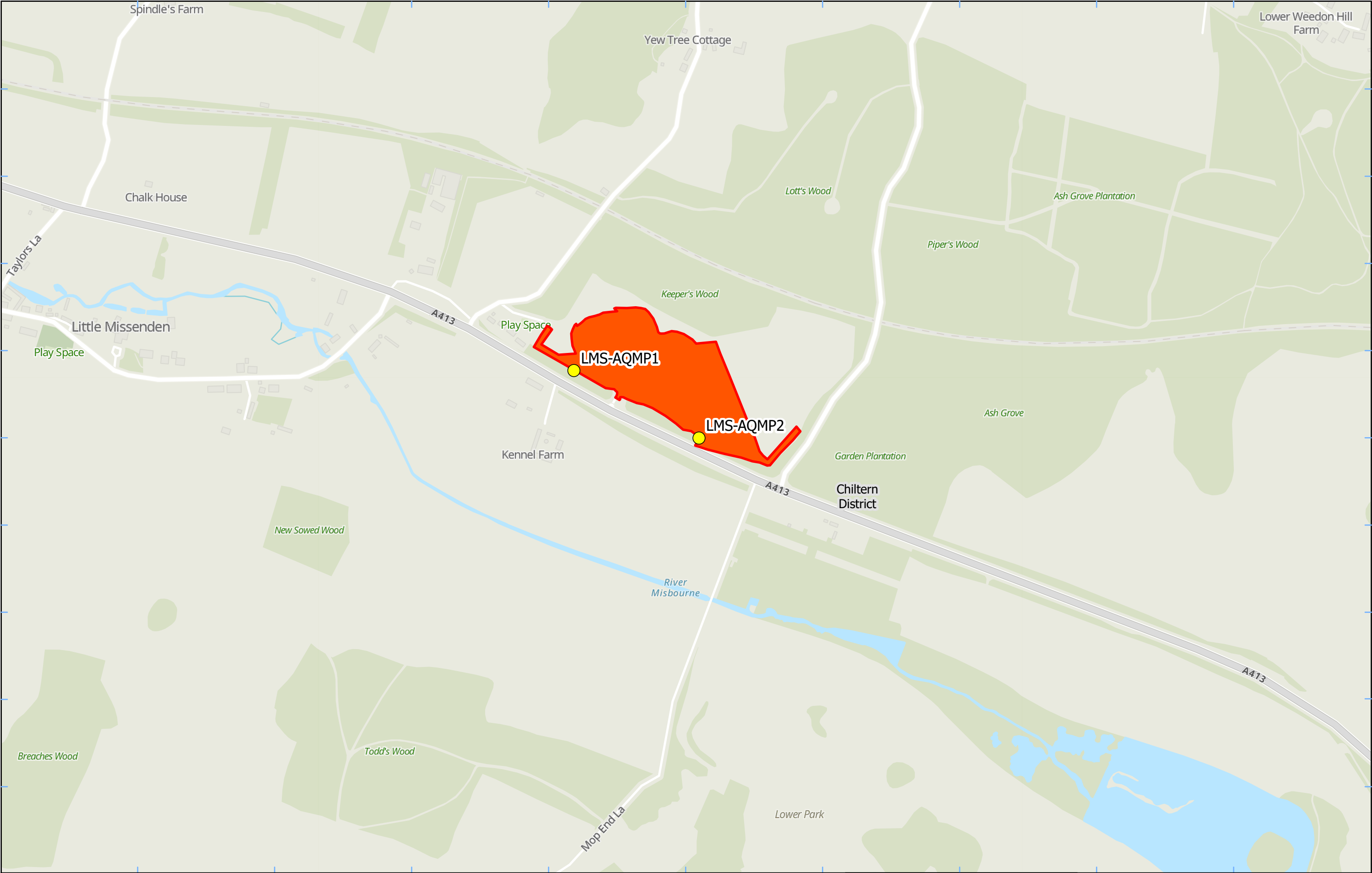
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	Map Name		
	Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2026. Contains data from OS Zoomstack	Monitoring Locations In BC (Sheet 4)	
Buckinghamshire County		Date: 28/04/26	



Legend

 Dust Monitor  District Borough Unitary Boundaries

 Worksite

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Map Number

Map Name

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

Buckinghamshire County



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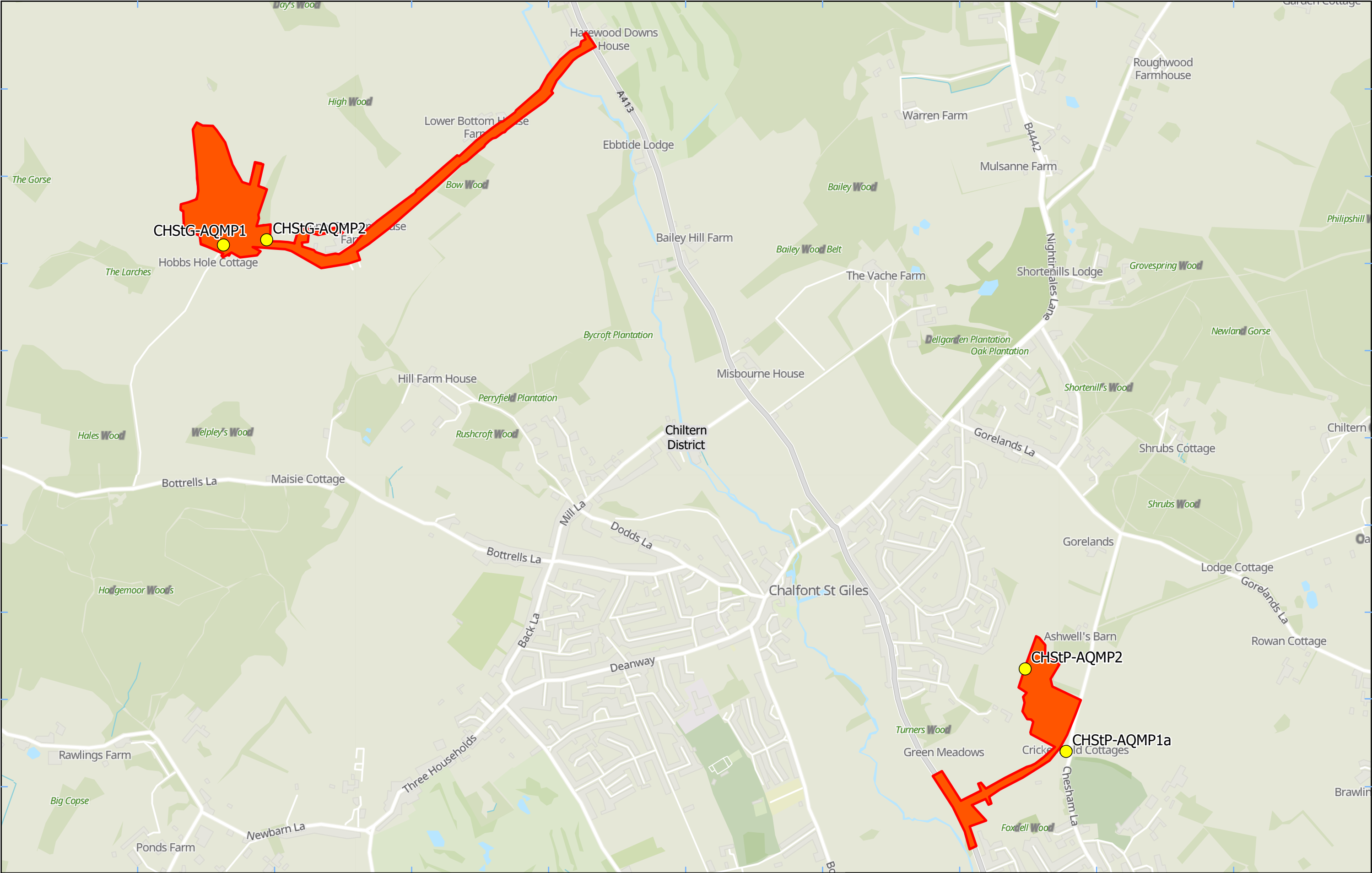


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Metres

Date: 28/04/26



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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Scale at A3: 1:12,000

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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	10.6	5.1	45.9	0	100.0
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	6.6	1.0	34.0	0	100.0
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	54.8	1.0	213.0	1	56.9
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	9.2	1.0	48.0	0	100.0
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	6.8	1.0	44.0	0	98.1
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	7.1	1.0	41.0	0	93.7
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	7.3	1.0	52.0	0	99.5
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	7.2	1.0	42.0	0	98.3
SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	11.9	6.9	58.7	0	100.0

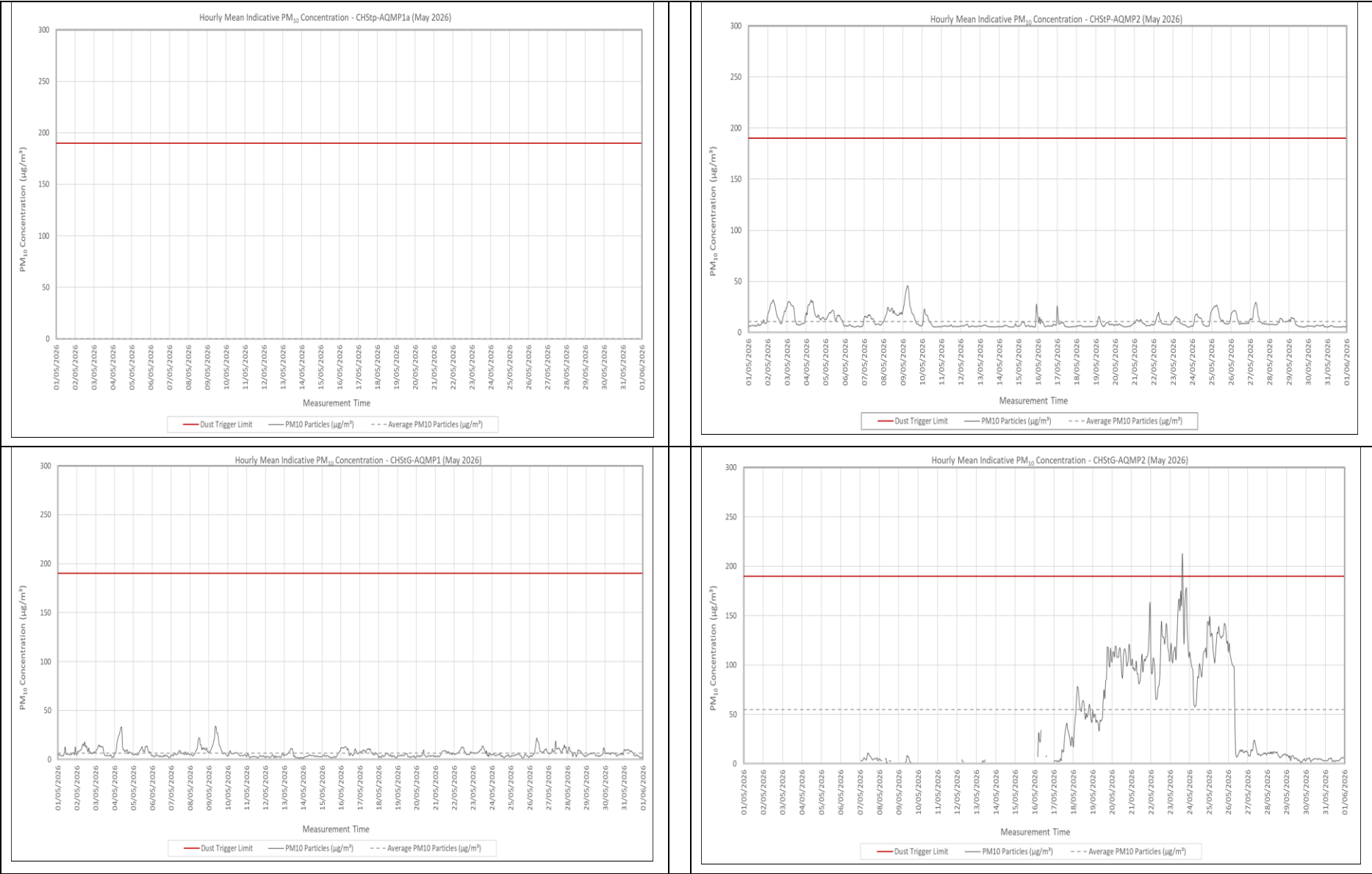
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SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	6.5	0.1	62.4	0	99.3
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	28.3	9.0	125.9	0	100.0
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	7.1	1.0	40.0	0	94.2
School End – Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	7.7	1.0	47.0	0	100.0
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	7.4	1.0	37.0	0	100.0
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	6.6	1.0	35.0	0	99.9
Chetwode/Hermitage – Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	15.6	1.0	74.0	0	100.0
Turweston North - Dust	460439, 237140	Turweston, Buckinghamshire	M	Yes	Yes	6.4	1.0	32.0	0	100.0
Turweston East - Dust	460556, 238280	Turweston, Buckinghamshire	M	Yes	Yes	5.1	1.0	32.0	0	99.9
FCC - Dust	469042 , 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	7.5	1.0	38.0	0	98.3
Ellesborough Road - Dust	486458 , 207550	Ellesborough Road, Wendover	M	Yes	Yes	8.0	1.0	41.0	0	100.0
Bacombe Lane – Dust	486528 , 207217	Bacombe Lane, Wendover	M	Yes	Yes	6.8	1.0	37.0	0	97.3
Station Road – Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	6.9	1.0	38.0	0	100.0
Wendover Town - Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	7.2	1.0	36.0	0	100.0
Woodlands - Dust	471603, 221315	Station Rd, Quainton,	M	Yes	Yes	6.2	1.0	36.0	0	97.2

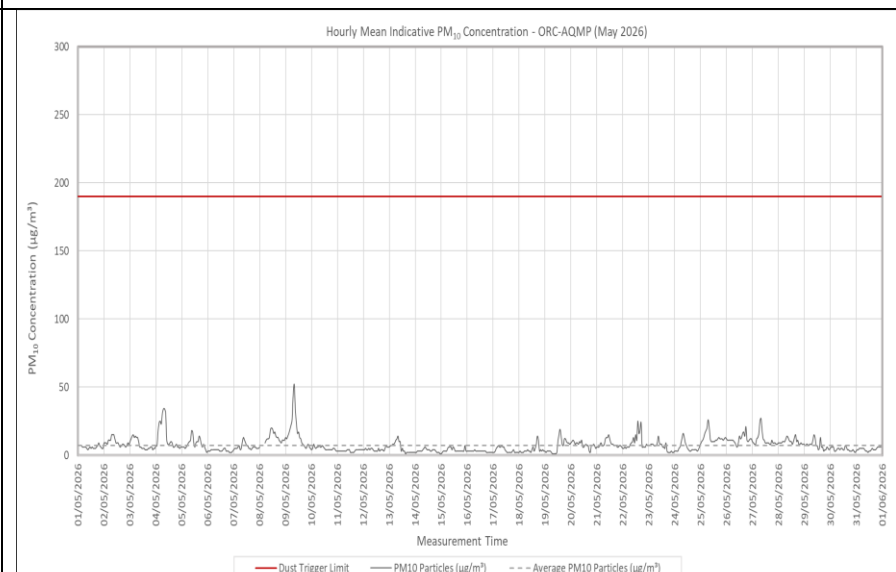
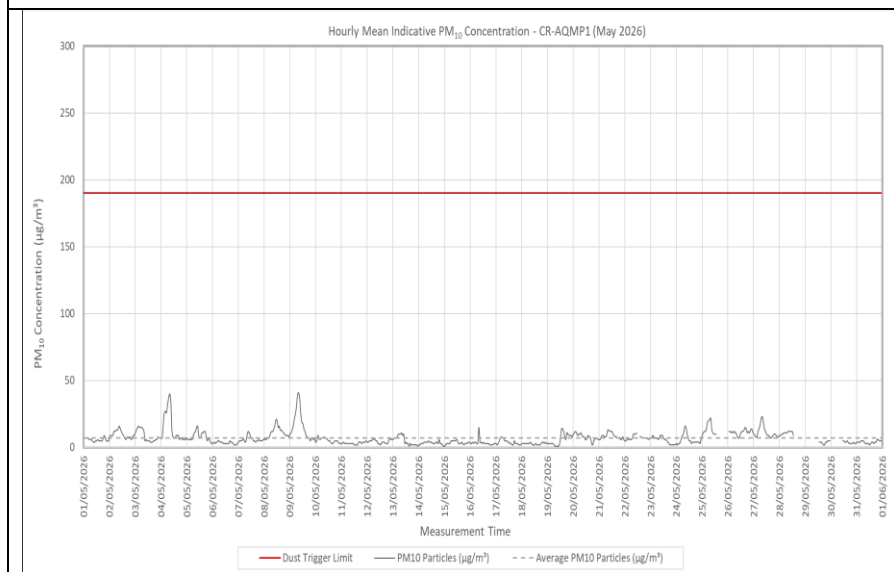
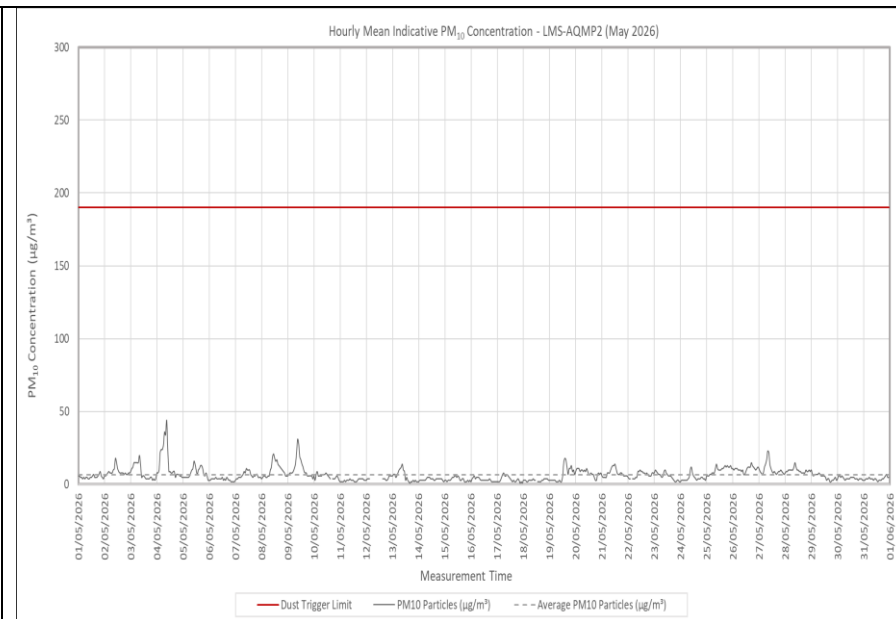
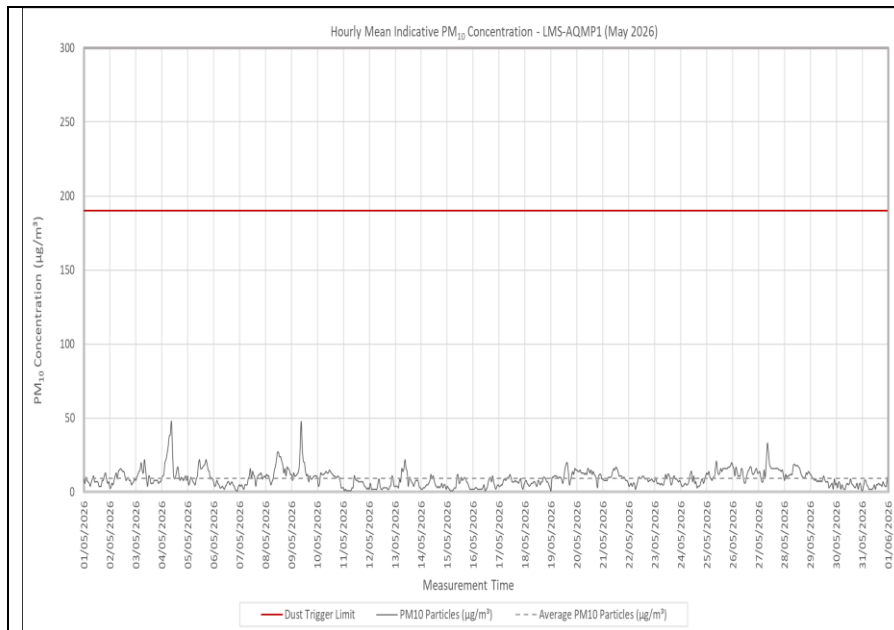
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		Woodlands Farmhouse								

Table 2: Summary of exceedances during period (May 2026)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
CHStG-AQMP2	23/05/26 14:01 – 15:00; 213 µg/m ³	Investigation showed trigger breach due to windy and dry day.	N/A

Figure 7: Continuous dust 1-hour mean indicative PM₁₀ concentration for all dust monitors





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