

HS2

October 2025

Air Quality and Dust Monitoring Monthly Report – October 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 October 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 Underbridge

- Back of wall drainage blockwork – complete for the season
- Chamber 2 Back of wall drainage – installed filter drain inlet

Rocky Lane Ditch Slab

- Poured 2no. foundations
- Completed below ground waterproofing
- Reinstated/ formed ditch
- In-situ concrete ditch lining 60%.

Ellesborough Road

- Duct investigation works and streetlight connection by UKPN.
- Installation of 18no. rings (90no. segments) in phase 2
- Waterproofing under blinding in Phase 2.

Bacombe Lane

Grove Farm Underbridge:

- Erecting the peri shutters on the south side of the underbridge lining wall
- North and South Lining Wall concrete pour.
- Striking Peri Shutters on the north and south walls.
- Concrete repair on the north and south facing wall
- Starting on the construction of the temporary road access underneath the underbridge

Grove Farm Culvert:

- Back grouting of the Rings in the tunnel

Wendover Compound

Wendover North Portal:

- Continued concrete and stone crushing works by subcontractor Duo.
- Removal of LPW platforms and storage areas; all stone hauled to crushing.
- Old LPW slurry plant base slab crushed and removed.

Wendover Green Tunnel

- 75m blinding cast in phase 3
- Installation of 22no. rings (110no. segments) in phase 3
- Construction of 155 lin. meters of invert slab in Phase 1 and 3 collectively
- Reinforcement fixing for phase 1 outer derailment walls
- Delivery of Gantry 5 equipment for WGT south mobilisation
- Waterproofing under blinding in Phase 3
- Waterproofing over in Phase 3
- Ongoing enabling works for break from highway work area establishment
- 1no. new drainage ditch cut
- Construction of retaining wall for in-tunnel mixer wagons loading area
- 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 and Turweston East

A422 Overbridge

- TM, West of A422 for Anglian water works west bound side of the road closed
- P1 & P2 retaining wall base slab steel fixing and formwork instillation
- P1 & P2 base slab and retaining wall concrete pour
- Deck steel fixing
- KIS continuing service works east & west abutments
- Grinding lifting lugs
- Carpenters constructing stop ends on deck

Turweston Green Overbridge

- Scaffolding works around wingwalls
- Steel fixing prefab steel for wingwall foundations
- DOKA collections
- Waterproofing of Deck
- Concrete pour North East blinding
- Housekeeping and moving materials
- Abutment backfilling works with 6N7
- Movement of parapets to old Oatley compound
- Earthworks backfilling in front of abutments
- Stockpiling 6P6 near TGOB.

Turweston Viaduct

- Top plank installation
- Bottom stitches being fabricated
- Doka delivery of props

School End and Hermitage

School End Overbridge + Road Realignment:

- West VRS foundations,
- Drainage Installation (headwall toes and subsurface drainage),
- Structural backfill behind embankments,
- Permanent paving on the bridge,
- Utility Installations.

Chetwode Cutting North:

- Excavate to formation level,
- Backfill of 1A1 material, PSG layer,
- Step Cutting and Placement of 6C drainage,
- Track Drainage Installation.

CHW18 Overbridge:

- Parapet Installation.

Twyford

Twyford Viaduct

- A0 Transition Structure- Steel Fixing, Formwork and Concreting.
- A0 Diaphragm Steel fixing, Formwork, and Concreting.
- P1 Diaphragm Steel Fixing, Formwork, and Concreting
- A3 Transition Structure Doka retaining formwork installation.
- A3 Transition Structure- CBGM Backfill
- P2 and A3 Diaphragm Steel Fixing and Formwork.
- Paratop Delivery and Pre-Assembly.

Twyford Embankment

- Placement of 6F8 PSG Layer.

Cowley Embankment

- C2.T.71 Track Drainage.

1.1.5 Thirty-three (33) 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 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 (October 2025).

1.1.9 Data capture was below 90% for multiple monitors due to:

- CHStP-AQMP1a was due to insufficient sunlight and Align are at the final stages of procuring alternative monitors.
- SH-AQMP1 was due to power loss to the monitors which is being investigated on site in early November.

- Chesham Lane had intermittent data capture from 14th October due to a battery fault.
- Data capture for Ellesborough Road had intermittent data capture from 12th October due to a battery fault.
- Data capture for Bacombe Lane had intermittent data capture from 13th October to 23rd October due to a battery fault.
- Data capture for Wendover Compound had intermittent data capture from 11th October to 22nd October due to a battery fault.
- FCC dust monitor had very low data capture throughout the month due to a battery fault.
- Data captured at the Station Road dust monitor had no data capture from 22nd October to 28th October due to a battery fault.
- Data capture at the Woodlands dust monitor had intermittent data capture from 12th October to 22nd October due to a battery fault.
- Twyford had intermittent data capture from 12th to 25th October due to a battery fault. No data capture from 26th October was due to a battery fault.
- Turweston North had intermittent data capture from 12th October due to a battery fault.

1.1.10 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.

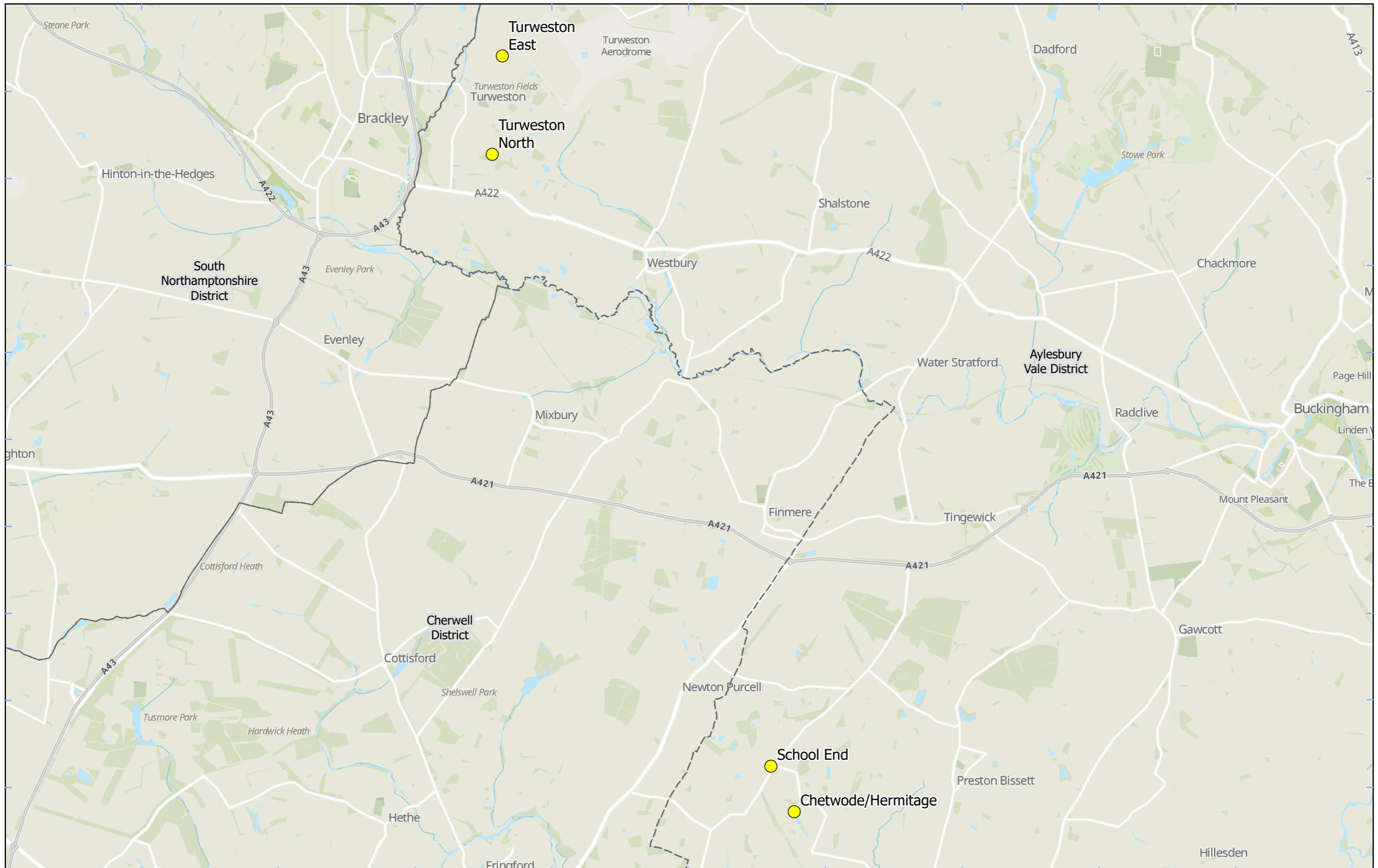
Table 1: Summary of complaints received during October 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46797-C	N/A	Increased amount of dust on personnel property.	All mitigation measures are in place to reduce dust in the area. All monitors were checked no exceedances were breached. Resident has been offered a car cleaning voucher as a gesture of good will.

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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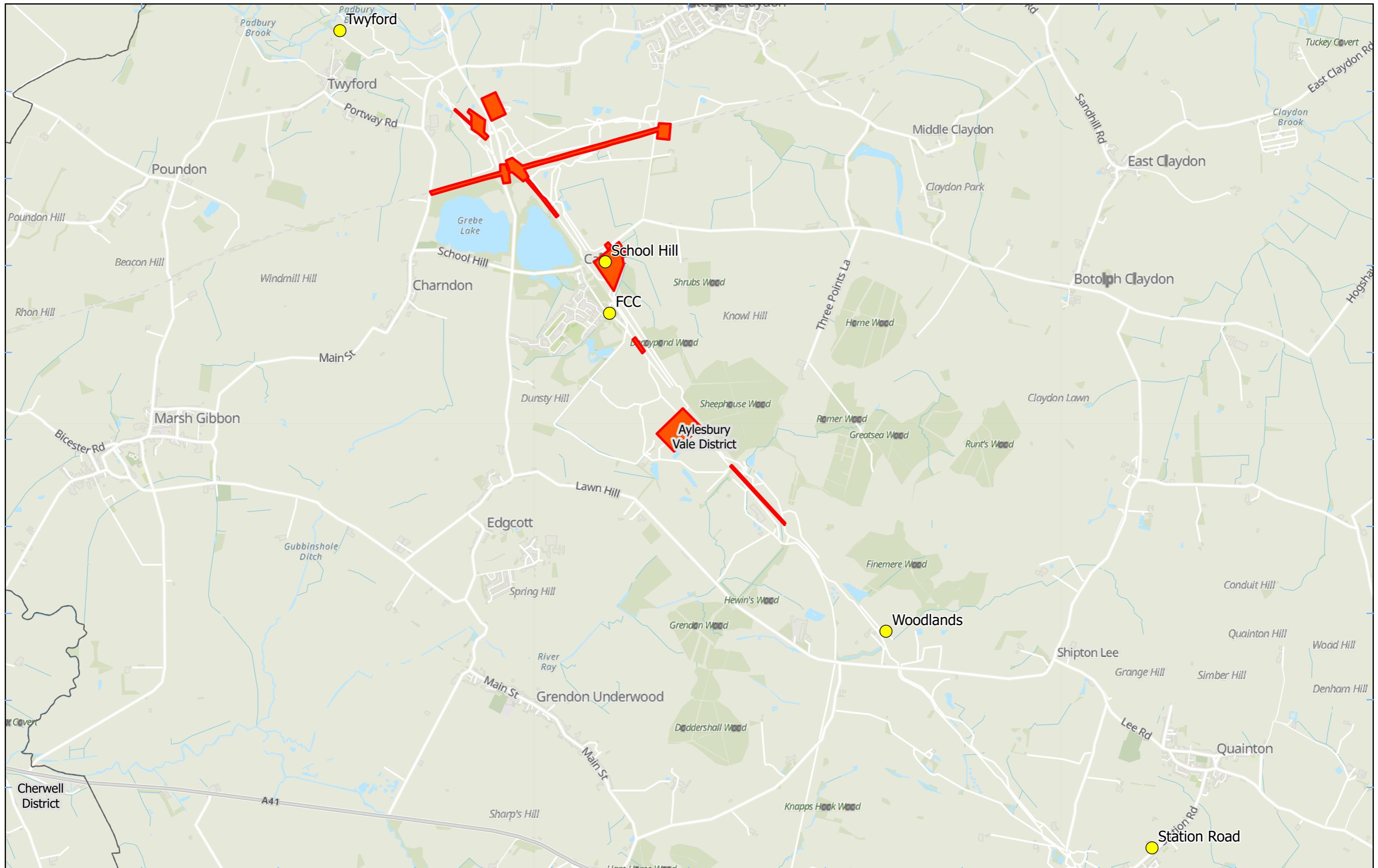


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Legend

- Yellow circle: Dust monitor
- Red line with arrows: Worksite
- Black line with dashed segments: District Borough Unitary Boundaries

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Map Number

Map Name

Worksite & Monitoring Locations In BC (Sheet 2)

Buckinghamshire County



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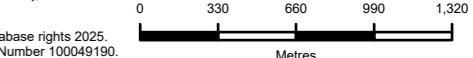


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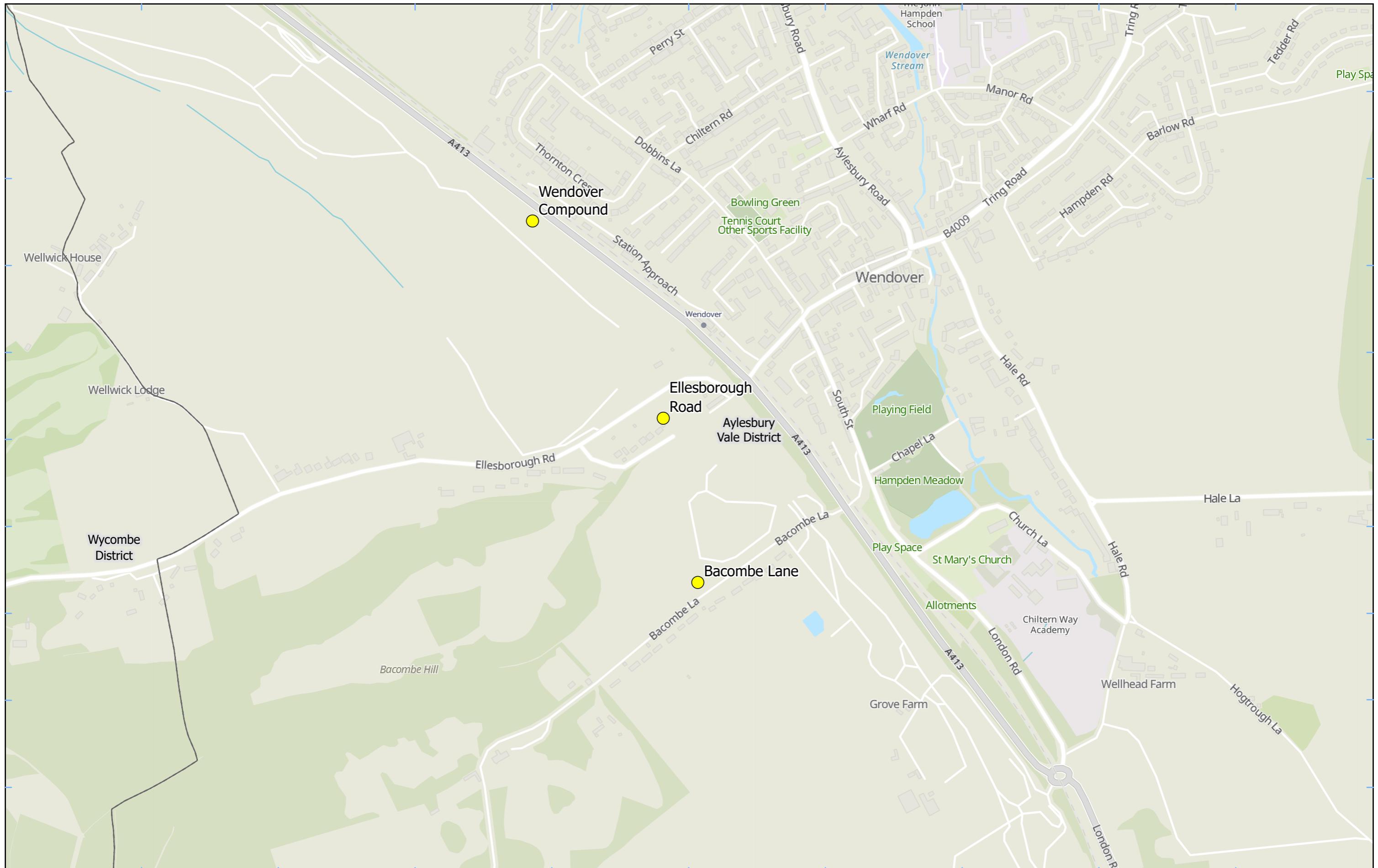
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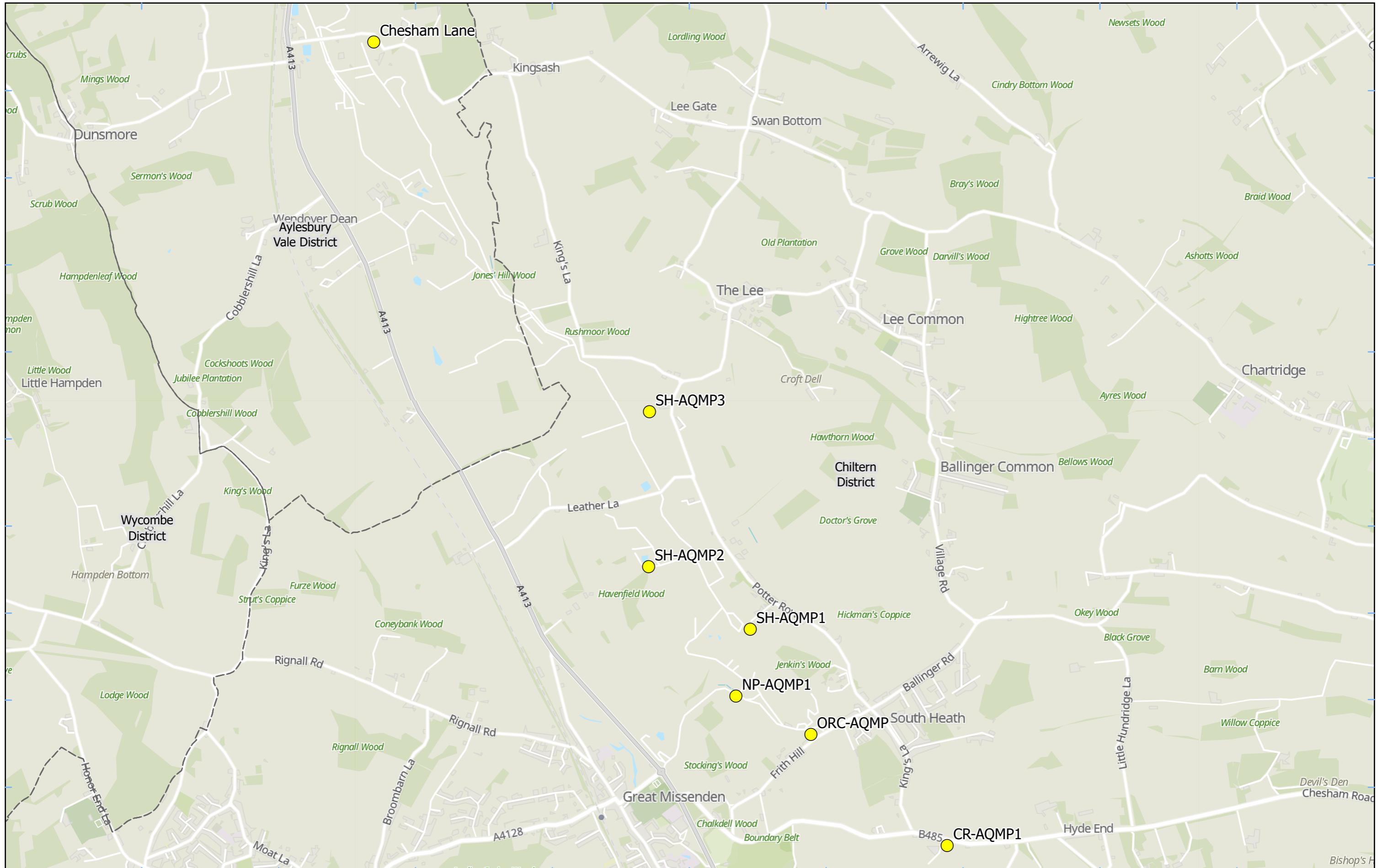
Date: 10/07/25



Legend
● Dust Monitor
— District Borough Unitary Boundaries

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	Buckinghamshire County	Scale at A3: 1:7,000  Metres Date: 10/07/25


Legend

Yellow circle: Dust Monitor

Dashed line: District Borough Unitary Boundaries

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Map Number

Map Name

Monitoring Locations
In BC (Sheet 4)

Buckinghamshire County



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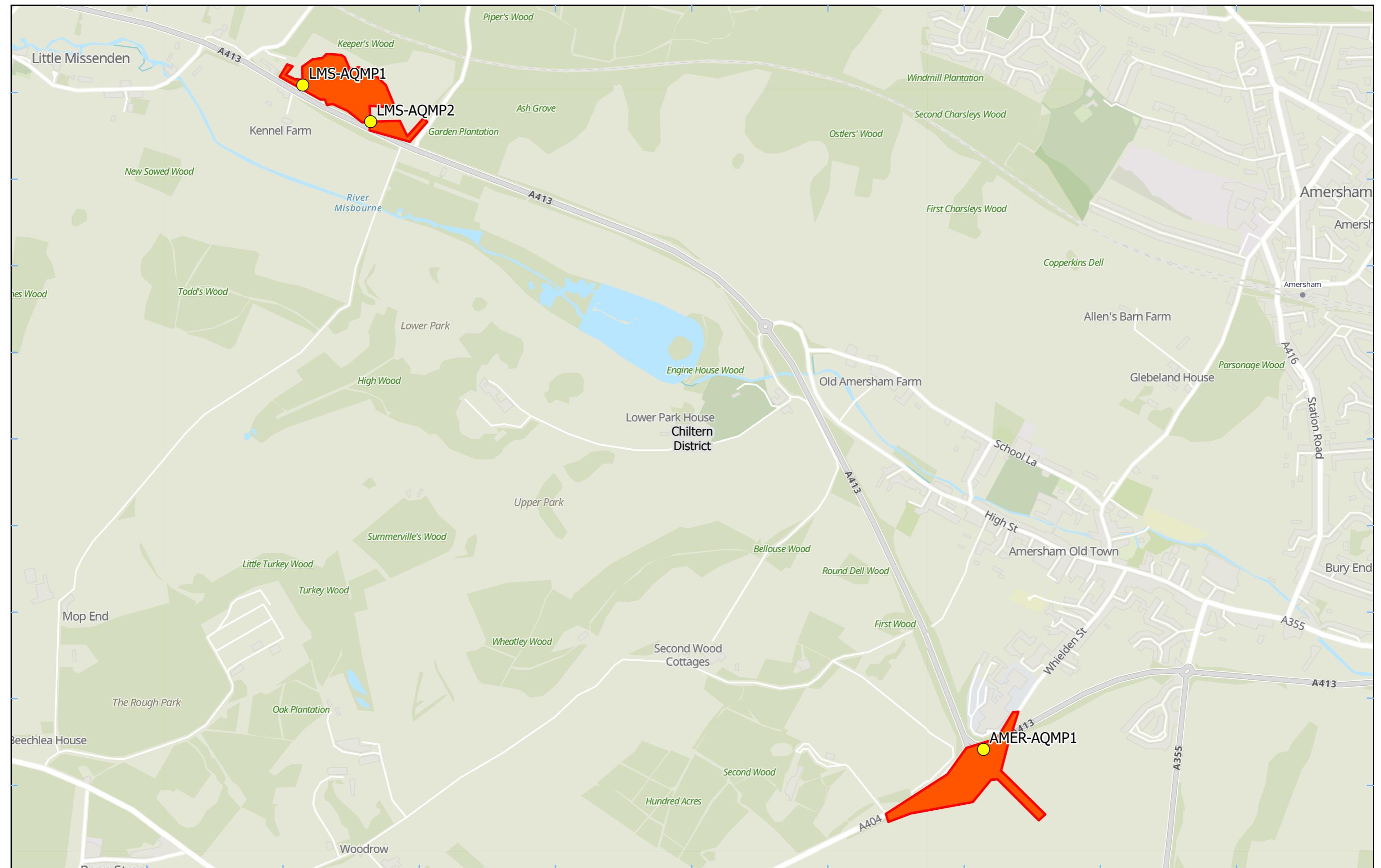
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Legend

- Yellow circle: Dust Monitor
- Red polygon: Worksite
- Black 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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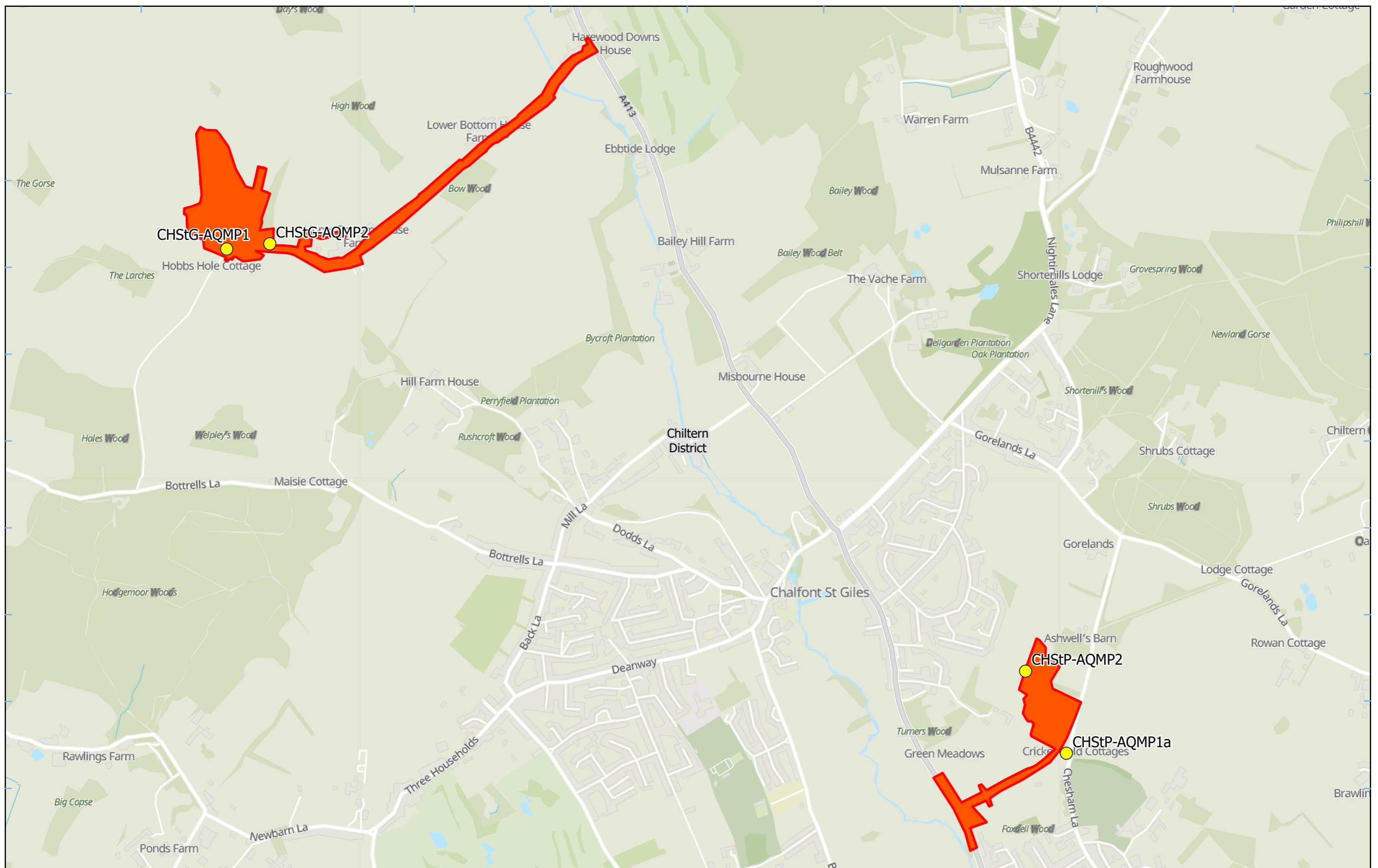
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● Dust Monitor [—] District Borough Unitary Boundaries

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Map Number			
Map Name	<h2>Worksite and Monitoring Locations In BC (Sheet 6)</h2>		
<h3>Buckinghamshire County</h3>		 <p>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.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Showhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2025. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:12,000</p> <p>0 120 240 360 480 Metres</p> <p>Doc Number: Date: 10/07/25</p>	

Appendix B – Dust Monitoring Results

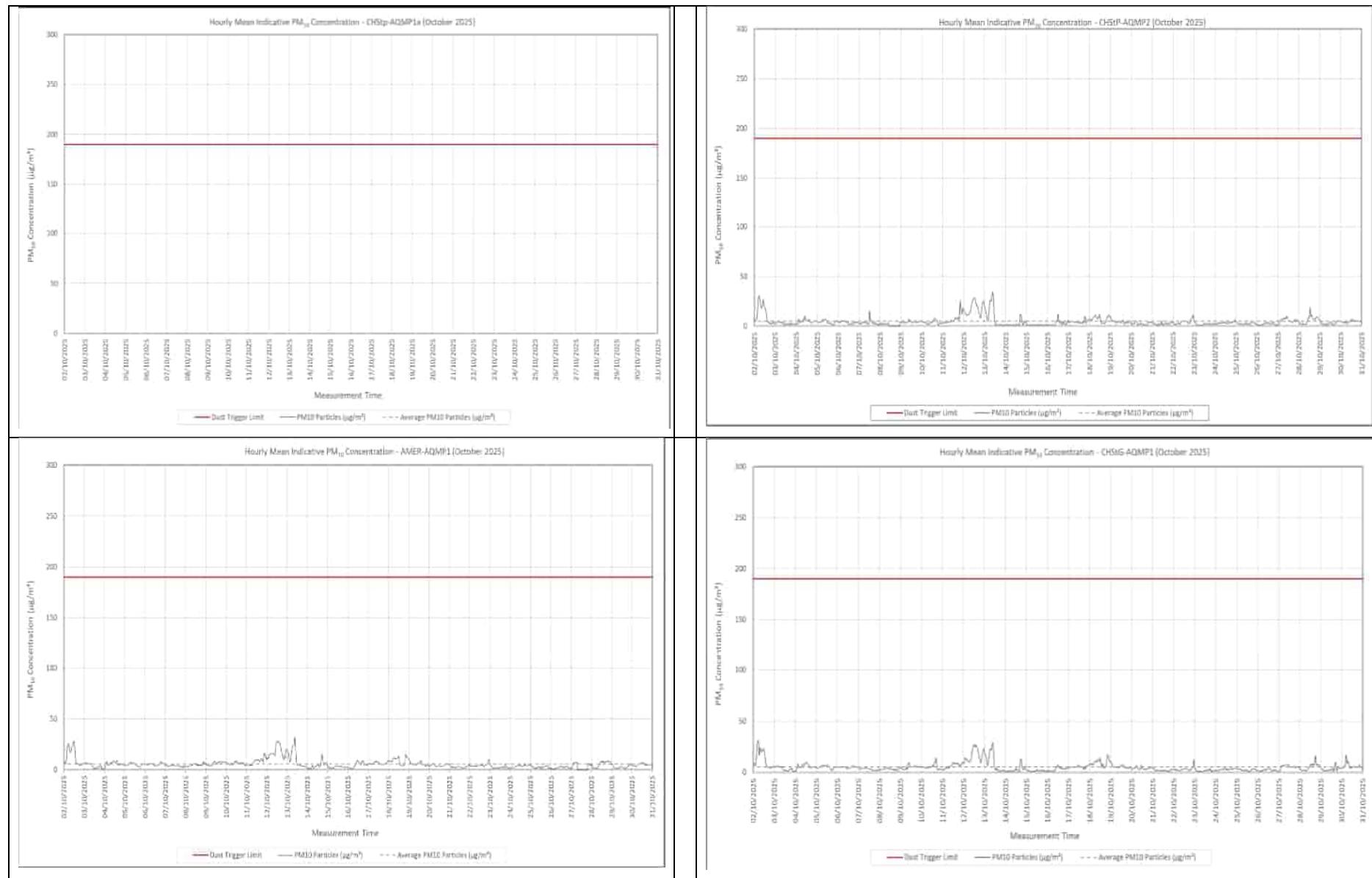
Table 2: Dust Monitoring Locations and Results

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 (%)
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	4.9	1.0	34.0	0	98.3
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	5.7	1.0	32.0	0	96.8
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	5.1	1.0	31.0	0	100.0
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	6.0	1.0	33.0	0	98.0
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	8.0	1.0	34.0	0	99.6
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	5.7	1.0	29.0	0	99.7
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	6.1	1.0	63.0	0	99.3
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	5.8	1.0	31.0	0	98.4
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	5.7	1.0	30.0	0	98.3

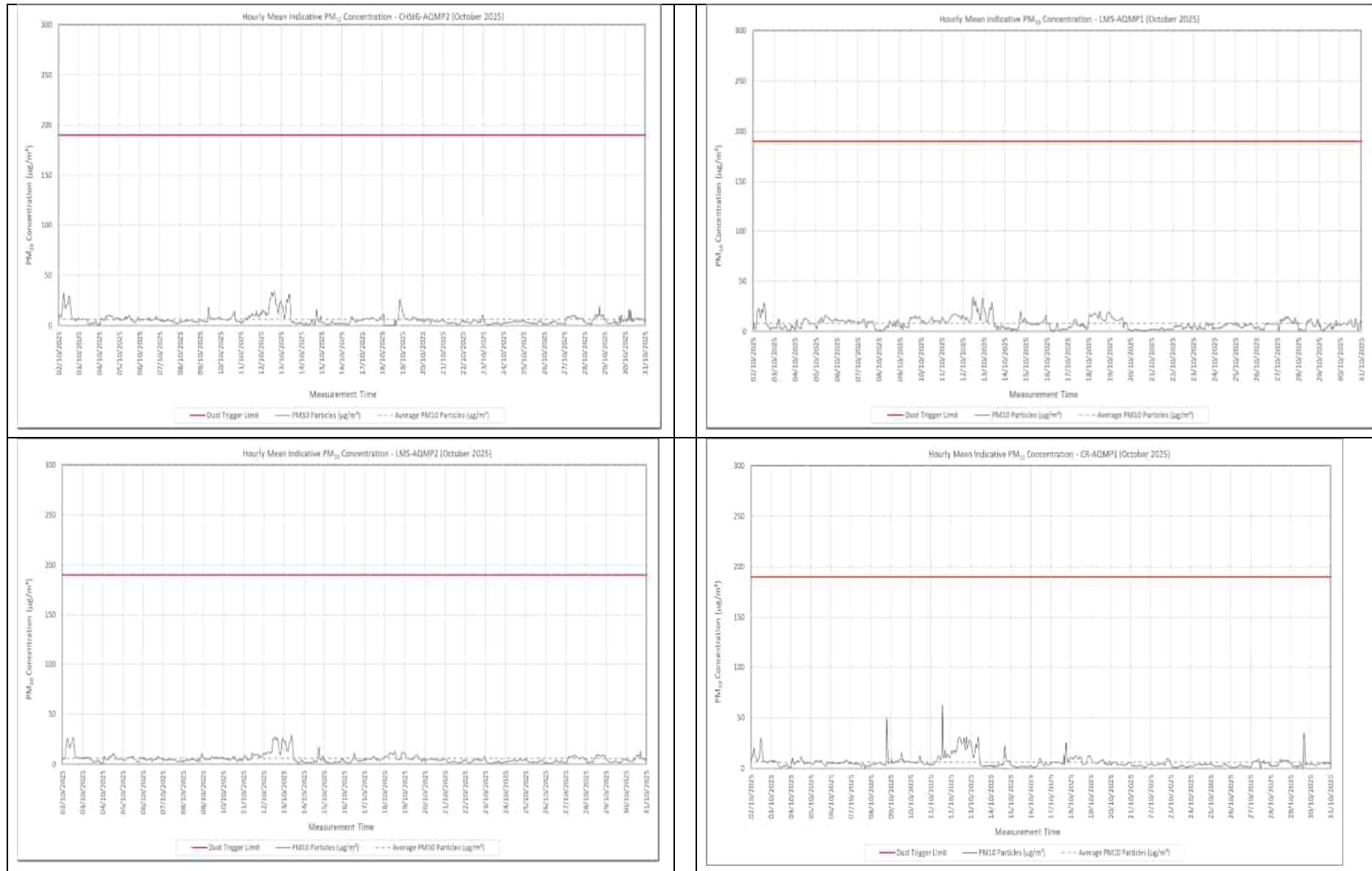
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SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	20.7	8.4	66.1	0	73.3
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	8.6	0.2	66.0	0	94.5
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	22.1	7.3	79.7	0	94.4
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	10.5	1.0	148.0	0	100.0
School End - Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	16.6	1.0	82.0	0	99.9
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	6.0	1.0	35.0	0	80.2
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	6.5	1.0	47.0	0	71.9
Chetwode/Hermitage - Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	18.2	3.0	82.0	0	100.0
Turweston North - Dust	460439 , 237140	Turweston, Buckinghamshire	M	Yes	Yes	7.0	1.0	43.0	0	72.4
Turweston East - Dust	460556, 238280	Turweston, Buckinghamshire	M	Yes	Yes	6.4	1.0	42.0	0	97.7
FCC - Dust	469042 , 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	7.0	1.0	53.0	0	59.7
Ellesborough Road - Dust	486458 , 207550	Ellesborough Road, Wendover	M	Yes	Yes	6.4	1.0	39.0	0	80.6
Bacombe Lane - Dust	486528 , 207217	Bacombe Lane, Wendover	M	Yes	Yes	6.1	1.0	40.0	0	81.0
Station Road - Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	7.1	1.0	54.0	0	80.4
Wendover Compound- Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	6.0	1.0	43.0	0	81.3

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	5.3	1.0	39.0	0	90.7

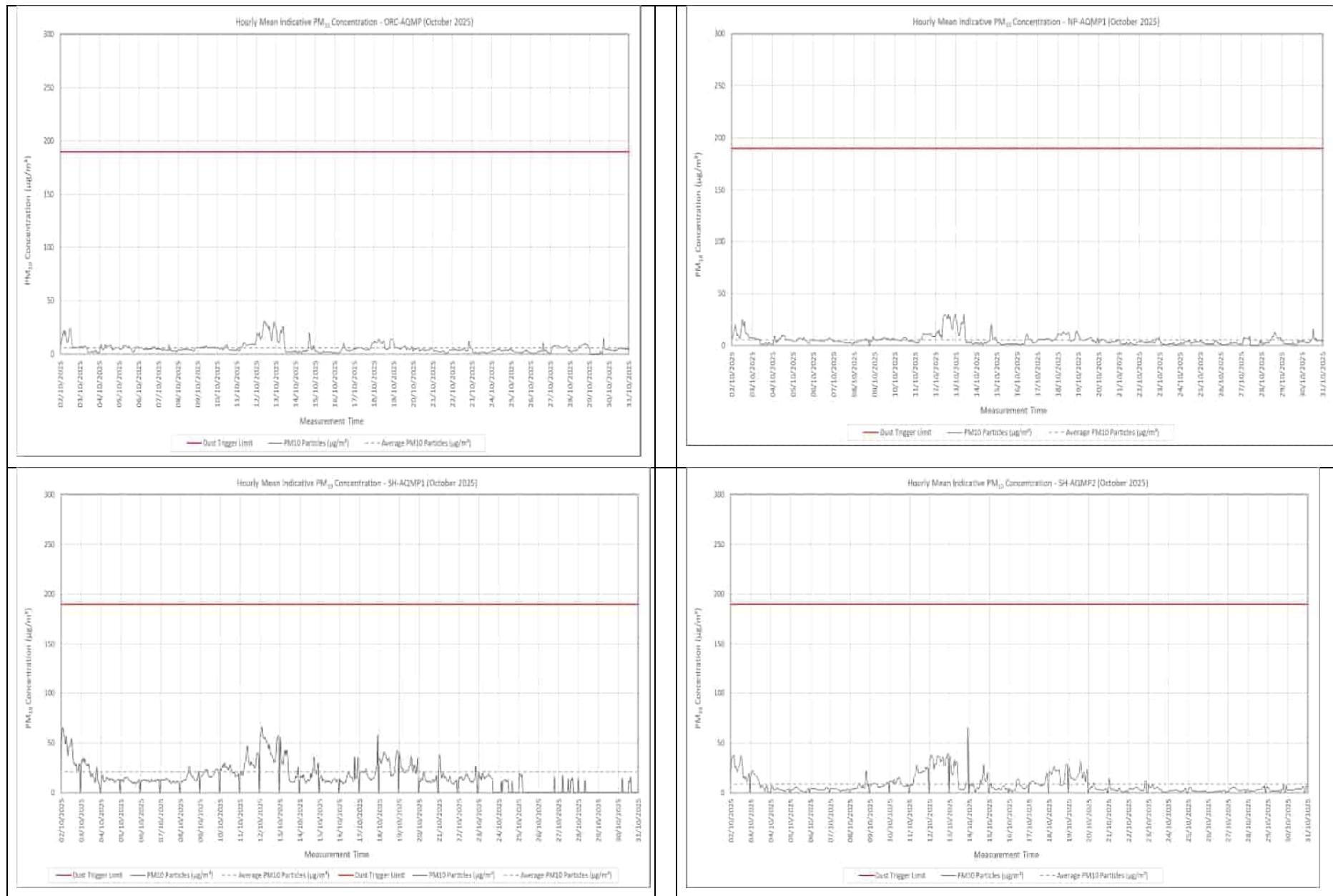
Figure 8: Continuous dust 1-hour mean indicative PM_{10} concentration for all dust monitors



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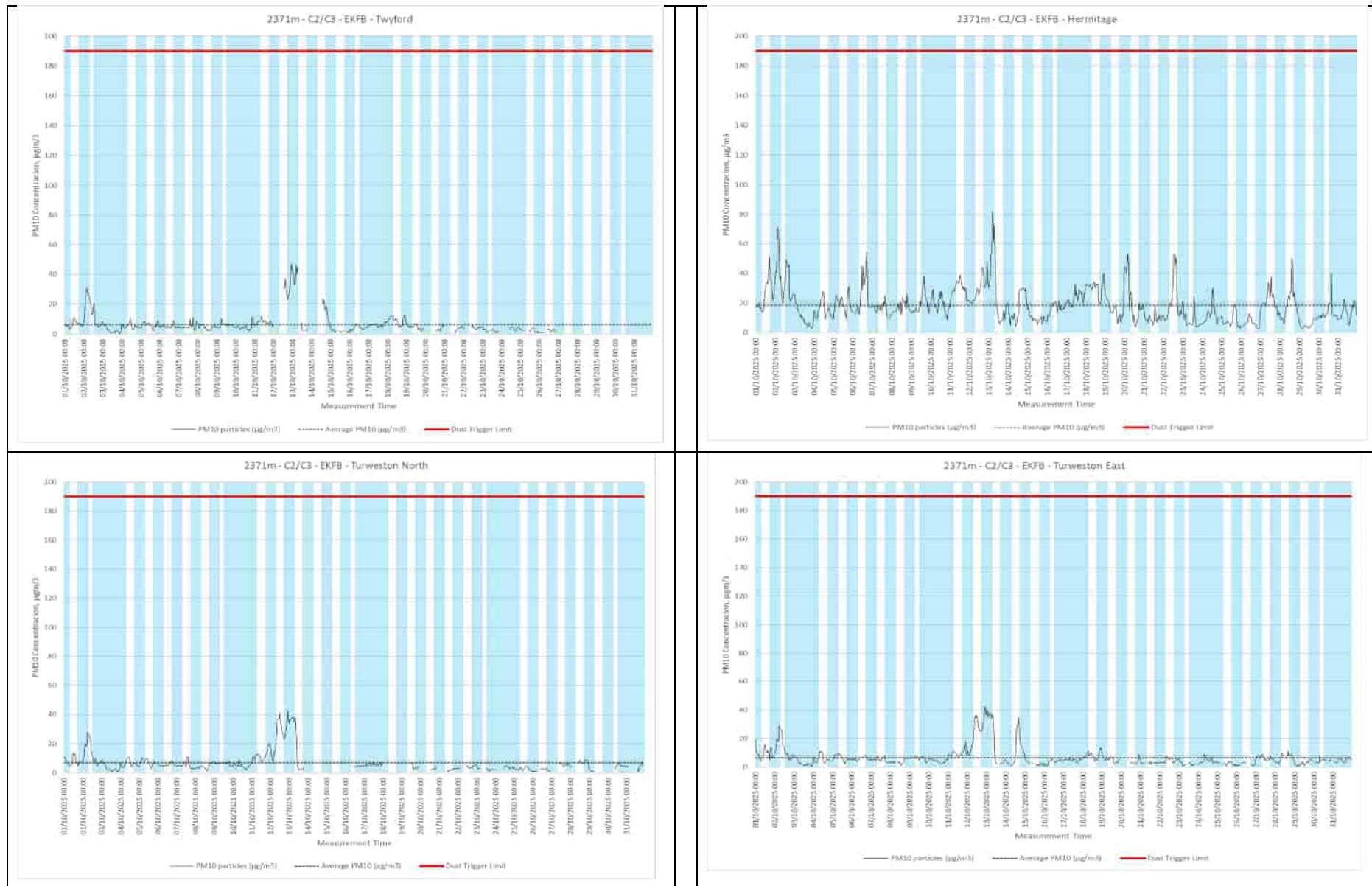
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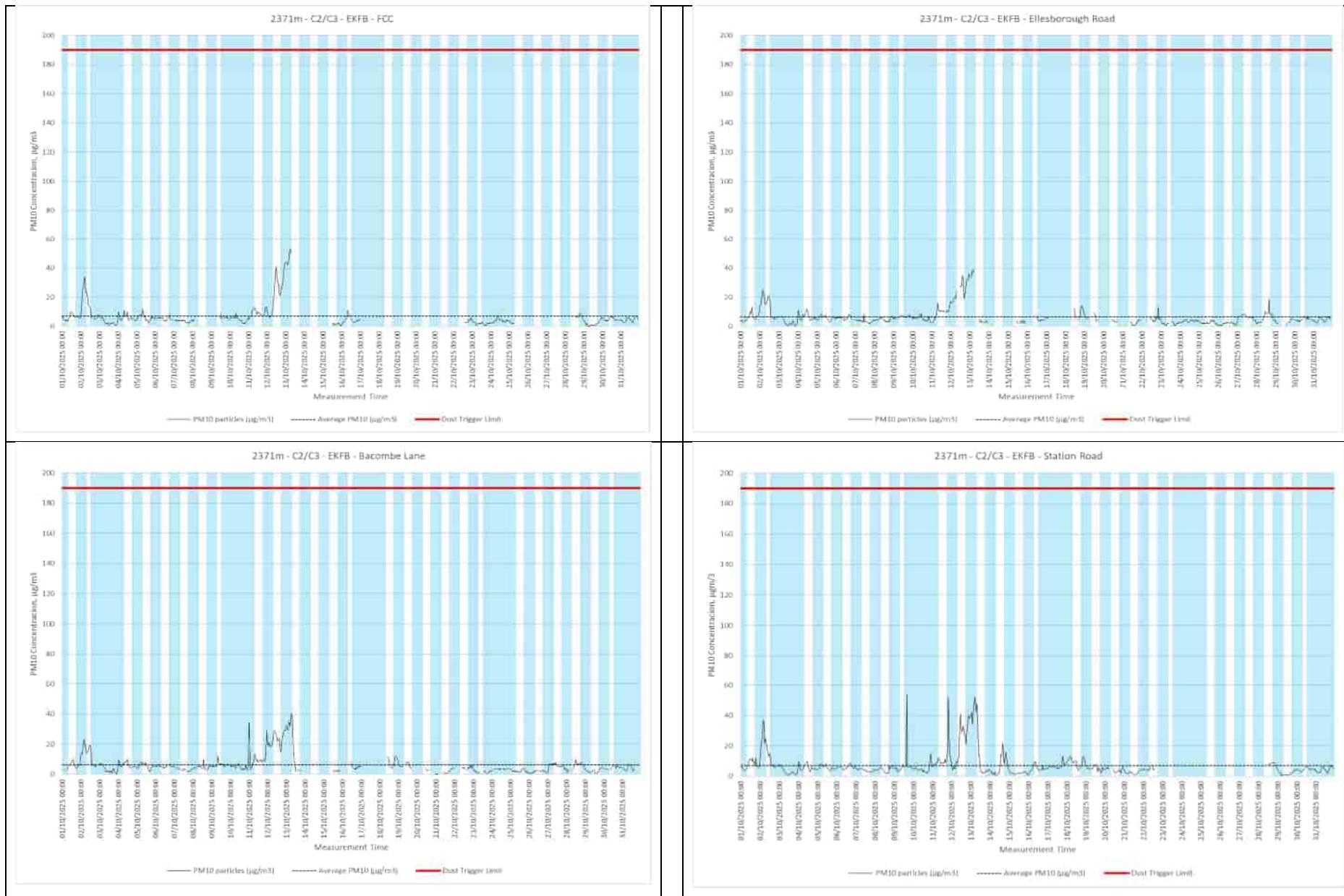
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