HS2

June 2022

# Air Quality and Dust Monitoring Monthly Report – June 2022

## Buckinghamshire Council



gov.uk/hs2

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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# 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 June 2022.

1.1.2 Figures 1-7 in Appendix A present the current worksites together with the dust monitoring locations for June 2022.

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:

**The Colne Valley Viaduct (CVV) LTP1**

- Jetty Piling; piling plant platforms, support plant, compound, piling platform relocation works
- Cofferdam Sheet Piling; Piling plant, Support plant
- Pile Caps at P22 and P30; Piling, FRC to Pile Caps; Earthworks
- Permanent Main Piling Works; Boring pile, De-sanding pile bore at pile position, installing reinforcement cage and concreting pile, Assemble tremie string and lower into bore. Bored pile and bentonite break-sown to prepare pile surface, Grout curtain around viaduct pile groups, Maintenance plant, Clean up around piles.
- North Embankment Compound; compound operation
- DWSC Compound; compound operation
- Satellite Welfare; Satellite Welfare
- Generators; Generators
- Utilities; H3
- Utility Diversion and Temporary M&E; Utility Diversion and Temporary M&E
- River Colne Re-alignment; Re-alignment works
- Cofferdam Excavation, Waling Beams and Concrete Plugs; Cofferdam excavation, dewatering, waling beams and concrete plugs
- Pier Construction; Arch Form Deck Pier 33, 32, 31, 30 – FRC works for V Pier Pile cap and pier
  Standard Piers and Pile caps P54 to P29 = FRC works for V pier pile cap and pier pile cap and pier. Yard supporting activities. Post tensioning of AFD legs. Tower crane mob/demob
- Pile Trimming; Pile trimming

- INNS – River Colne to GUC; Removal
- INNS – GUC to Harvil Road; Removal
- Ground Investigation Works; GI Works, Overwater GI works
- Pumping Water Management; Pumping water management
- Maintenance of Haul Roads; Maintenance and vehicle movements of haul roads
- North Abutment Works; Abutment – completion works at bearing shelf/parapet, Yard Supporting Activities
- A412 Gas Crossing Emergency Dismantling; A412 gas crossing emergency dismantling
- Fencing; Fence construction
- Environmental Maintenance; Environmental maintenance
- Core drilling of Concrete; Core drilling of concrete
- Bentonite Farms; Base slab construction, Finish upstand walls and installation of equipment, Demolition of Bentonite farms
- River Colne Crossing; Emergency removal of obstruction to RC Crossing
- Launching Girder and Deck Works; Span segmental erection with launching gantry, Shoring steel structure erection and dismantling, Internal post tensioning, External PT
- General Works – All locations; General works

**Chalfont St Peter Vent Shaft**

- Activity 1 – General Site Activities (including Tower Crane Erection)
- Activity 2 – Excavate Surplus Secant Piles
- Activity 3 – Road Maintenance Works
- Activity 4 – Secondary Lining
- Activity 5 - Reinforced Concrete Internal Structure
- Activity 6 – Connection to Tunnels
- Activity 8 – Basement Construction

**Amersham Vent Shaft**

- Activity 1 - General Site Activities (including Tower Crane Erection)
- Activity 2 – Waterproofing
- Activity 3 – Basement Secant Pile Works
- Activity 4 – Shaft Base Works
- Activity 5 – Collar Construction
- Activity 6 – Secondary Lining
- Activity 7 – Internal Structures
- Activity 8 – Small Basement Construction

**Chalfont St Giles Vent Shaft**

- Activity 1 - General Site Activities (including Tower Crane Erection)
- Activity 2 – Secant Piling
- Activity 3 – Road Maintenance Works
- Activity 4 – Secondary Lining

- Activity 5 – Reinforced Concrete Internal Structure
- Activity 6 – Connections to Tunnels
- Activity 7 – Basement Construction

**Little Missenden Vent Shaft**

- Activity 1 - General Site Activities (including Tower Crane Erection)
- Activity 2 – Basement Secant Piling Works
- Activity 3 – Shaft Base Slab
- Activity 4 – Collar Construction before TBM Crossing
- Activity 5 – Secondary Lining
- Activity 6 – Small Basement Construction
- Activity 7 – Stockpile Removal

**Chesham Road Vent Shaft**

- Activity 1 - General Site Activity
- Activity 2 - Shaft Construction using In-Situ Caisson Method

**North Portal work site**

- Early Works; Mobilisation and Site Setup, Site Fencing
- Temporary Access Road; Scrape 1formation, Hardstanding and Kerbing, Drainage and Services, Asphalt and Signage
- Permanent Access Road; Scrape Formation, Hardstanding and Kerbing, Drainage and Services, Asphalt and Signage
- Compound Carpark; Scrape Formation, Hardstanding and Kerbing, Drainage, Foulage, and Services, Asphalt, Site Accommodations RC Works, Site Accommodations Delivery and Fit-Outs
- Piling Platform – Area 1; Traffic Management and Temporary Access from Frith Hill Road, Weights and Measures Pub Demolition, Cut and Fill, Stabilisation, and Hardstanding, Ducting and Drainage
- Piling Platform – Area 2; Cut and Fill, Stabilisation, and Hardstanding, Ducting and Drainage, Temporary Utilities, Temporary Water Connection
- Foundations – Headwall (Mobilisation), Mobilisation of D-Wall Piling Equipment
- North Portal Barrettes and Headwall; Ground Pre Treatment Works: Included by Variation 1MC05-ALJ-EV-REP-CS02-CL16000005 dated 01/02/2022

**North Chilterns Area**

- South Heath Earthworks;
- Great Missenden Compound;
- Mulberry Park Demolition Works;
- Durham Farm Demolition and De-vegetation Works;
- Surface Water Management Works (Attenuation ponds);

- Small Dean Compound;
- Sheet Piling;
- Wendover Compound;
- Wendover Batching Plant; and
- Nash Lee Road Diversion.

**Calvert Area**

- Charndon Lodge Underbridge – FRC works including rebar fixing, formwork lifting / removal and concreting
- East West Rail Overbridge – FRC works including rebar fixing, formwork lifting / removal and concreting
- Perry Hill Overbridge – pilecap excavation, pile cropping, and FRC works including rebar fixing, formwork lifting / removal and concreting
- Addison Road Overbridge – FRC works including rebar fixing, formwork lifting / removal and concreting
- OXD Culverts – blinding, installation of pre-cast culvert units, waterproofing and sealing, rebar and shuttering for in-situ headwalls, and technical backfill
- GUN28 Overbridge – piling platform build-up
- OXD Line Earthworks – embankment removal, dig and replace (D&R), starter layers and embankment fill, permanent drainage / ponds, and track layers
- Hills Farm Earthworks – import and stockpiling of materials, and stockpiling of site won materials
- MCJ Line Earthworks – removal of existing ballast embankment, pre-earthworks drainage, and demolition / removal of existing culverts
- West Street Temporary Diversion – formation excavation, laying and compacting of stone, cutting of drainage ditches, and surfacing / tarmacking
- Addison Road Temporary Diversion – removal of existing embankment
- Creighton Road Traffic Lights – concrete works for traffic light bases
- Site Access Roads – formation excavation, laying and compacting of stone, cutting of drainage ditches, and surfacing / tarmacking
- Demolitions – demolition of Adams Accommodation Underbridge, CAG2 Underbridge, QUA26 Underbridge and Woodlands Farm double garages
- Quainton Temporary Utility Diversions – Concrete shaft sinking for under track crossings (UTXs), microtunnelling for UTXs, and field trenching for duct laying.
- West Street Temporary Utility Diversions – field trenching for duct laying
- SGN Pipe Temporary Diversions – field trenching for duct laying

**Twyford to Greatworth**

- School End/Hermitage/Old Stable Cottage: compound development, topsoil stripping, Drainage, pond maintenance, I&M, Stockpiling, Topsoil Stripping, Manthorn Farm demolition, and IDTs movement.
- Twyford: Access Road, Haul Road, drainage/culvert.

- Routewide Vegetation clearance, access road, drainage, and ponds maintenance along SAR from ch 86;700 to 85;000.
- Turweston: access road, topsoil stripping, compound maintenance, drainage/ponds, bulk excavation, stockpiling, and slab crossing.

**Aylesbury**

Meadoway

- Construction of the A418 Security Plaza access road
- Earthworks (Aylesbury North Cutting excavation, stockpile construction)

Oat Close

- Earthworks (Aylesbury Embankment excavation, stockpile construction)

Glebe House

- Earthworks (Aylesbury North Cutting excavation, stockpile construction)

Moat Farm

- Earthworks (Aylesbury South Cutting excavation, stockpile construction)
- PRA Overbridge piling works
- PRA Rail Deliveries - maintenance of stockpile and access road
- PRA Rail Deliveries by train and unloading, transport to stockpile area

Westfield

- Earthworks (Aylesbury South Cutting excavation, stockpile construction)
- PRA Overbridge piling works
- PRA Rail Deliveries - maintenance of stockpile and access road
- PRA Rail Deliveries by train and unloading, transport to stockpile area

1.1.5 Thirty-five (35) dust monitors are installed around the worksites, where works are underway. These sites returned a medium dust risk rating.

1.1.6 Dust monitoring locations and results for June 2022 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 $PM_{10}$ concentrations of 190 µg/$m^3$, measured as a 1-hour mean, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.

1.1.8 Data capture was below 90% for multiple monitors in June 2022 due to technical issues, remote connection problems and loss of power.

1.1.9 Details of trigger alert investigations and remediations are presented in Appendix B, Table 3.

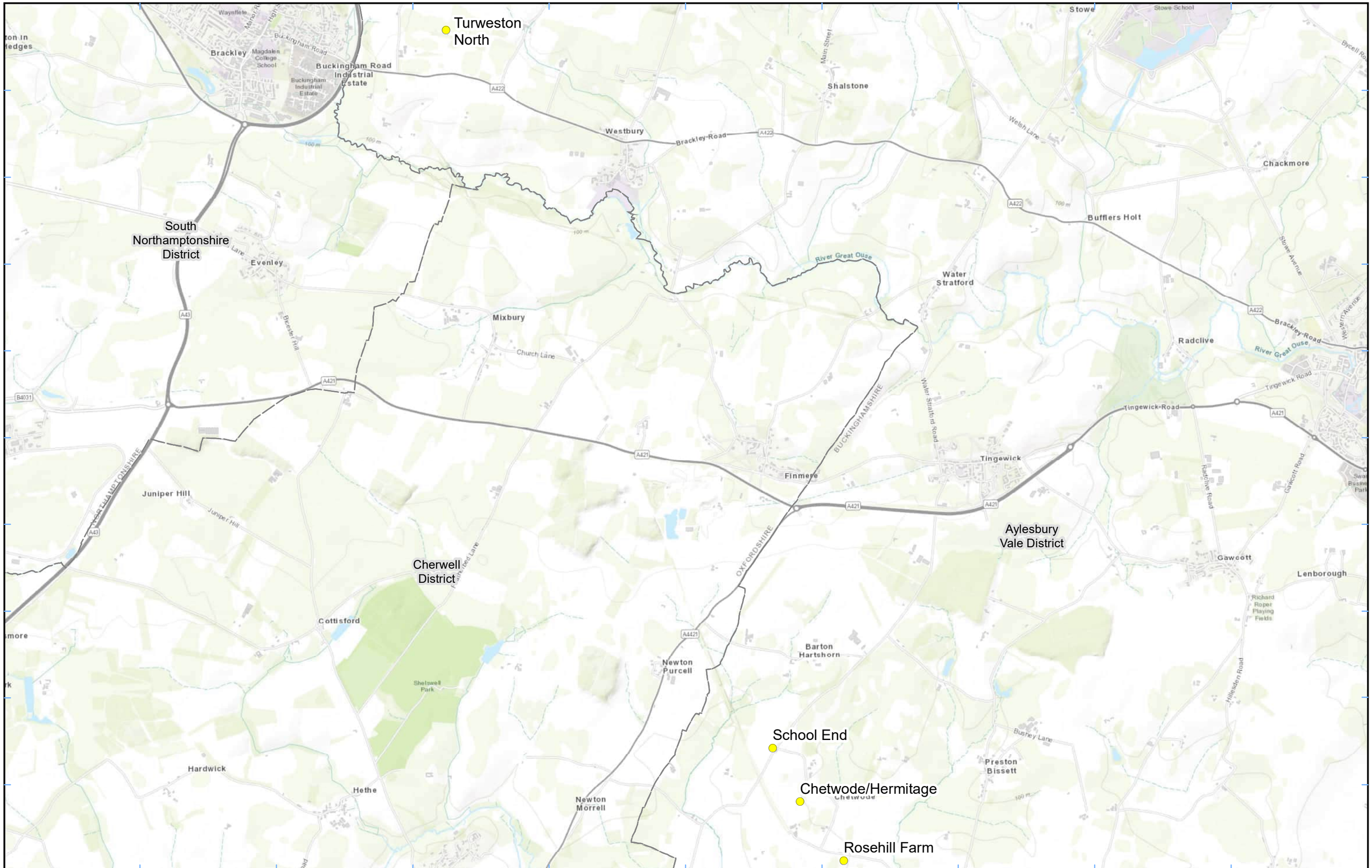
1.1.10 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during June 2022 in BC

| Complaint Reference No. | Worksite Reference | Description of complaint | Results of investigation |
|---|---|---|---|
| HS2-22-43745-C | N/A | Levels of dust from heavy machinery and lorries. | Dust management practices are used across the entire site, including the regularly dampening down of haul roads and the use of screening where practicable. Site teams confirm that dust suppression is constantly deployed when work occurs in the area adjacent to Old Shire Lane. Daily monitoring of dust pollution is conducted using air quality monitors at the boundaries of our site. In June, no exceedances were reported. The stakeholder was notified that with a large and exposed site, not all dust pollution can be prevented however work continues on ways to improve the response to particularly dusty working conditions, including trialling new technologies. |

# Appendix A – Worksite and Dust Monitoring Locations

Figure 1-7: Worksite and monitoring locations within the BC




**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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

Monitoring Locations In BC (Sheet 1)

Buckinghamshire County



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



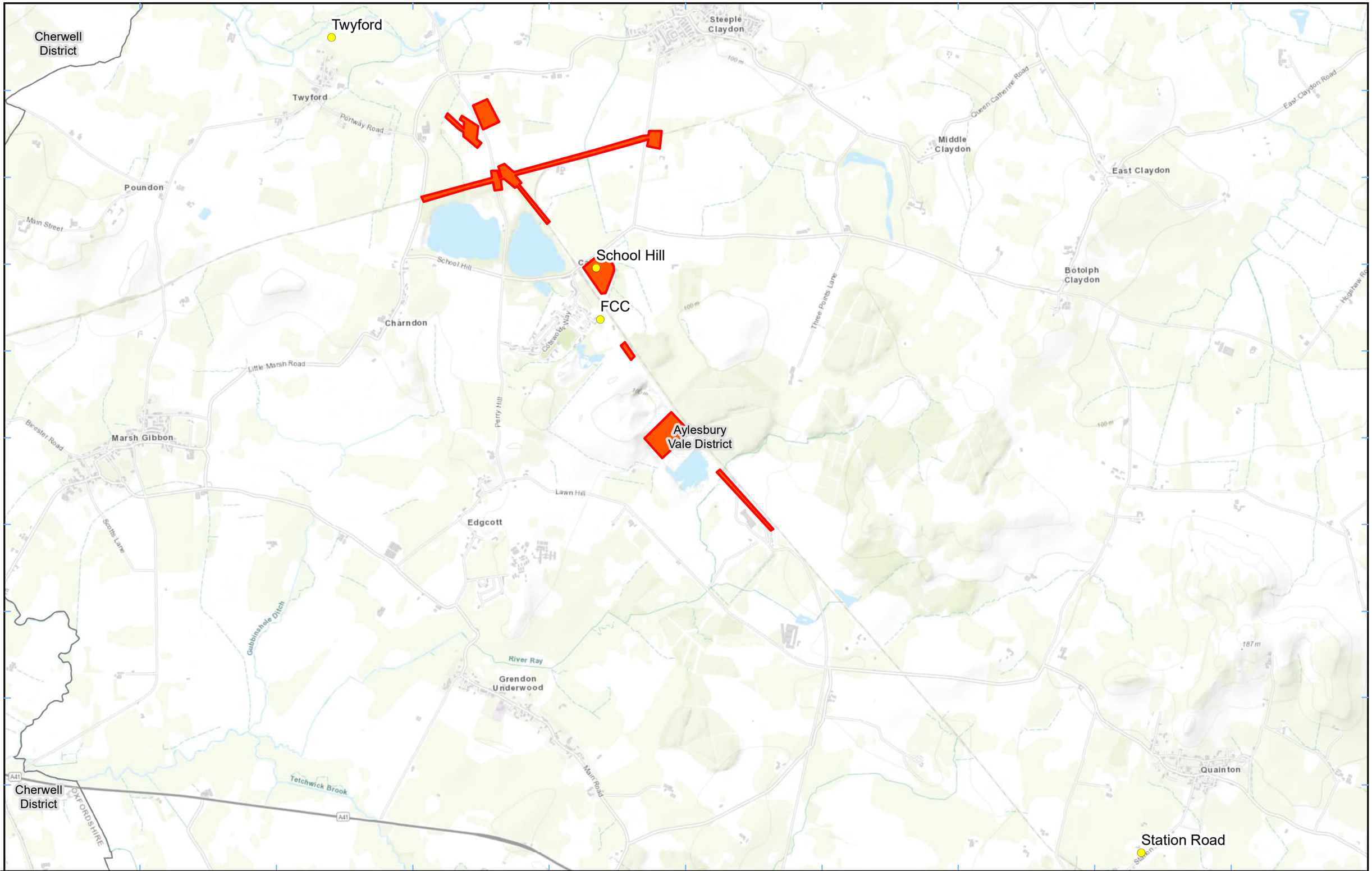
Scale at A3: 1:34,000

0 340 680 1,020 1,360

Metres

**Doc Number:**

**Date:** 22/02/22




**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 and Monitoring Locations In BC (Sheet 2)

Buckinghamshire County



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

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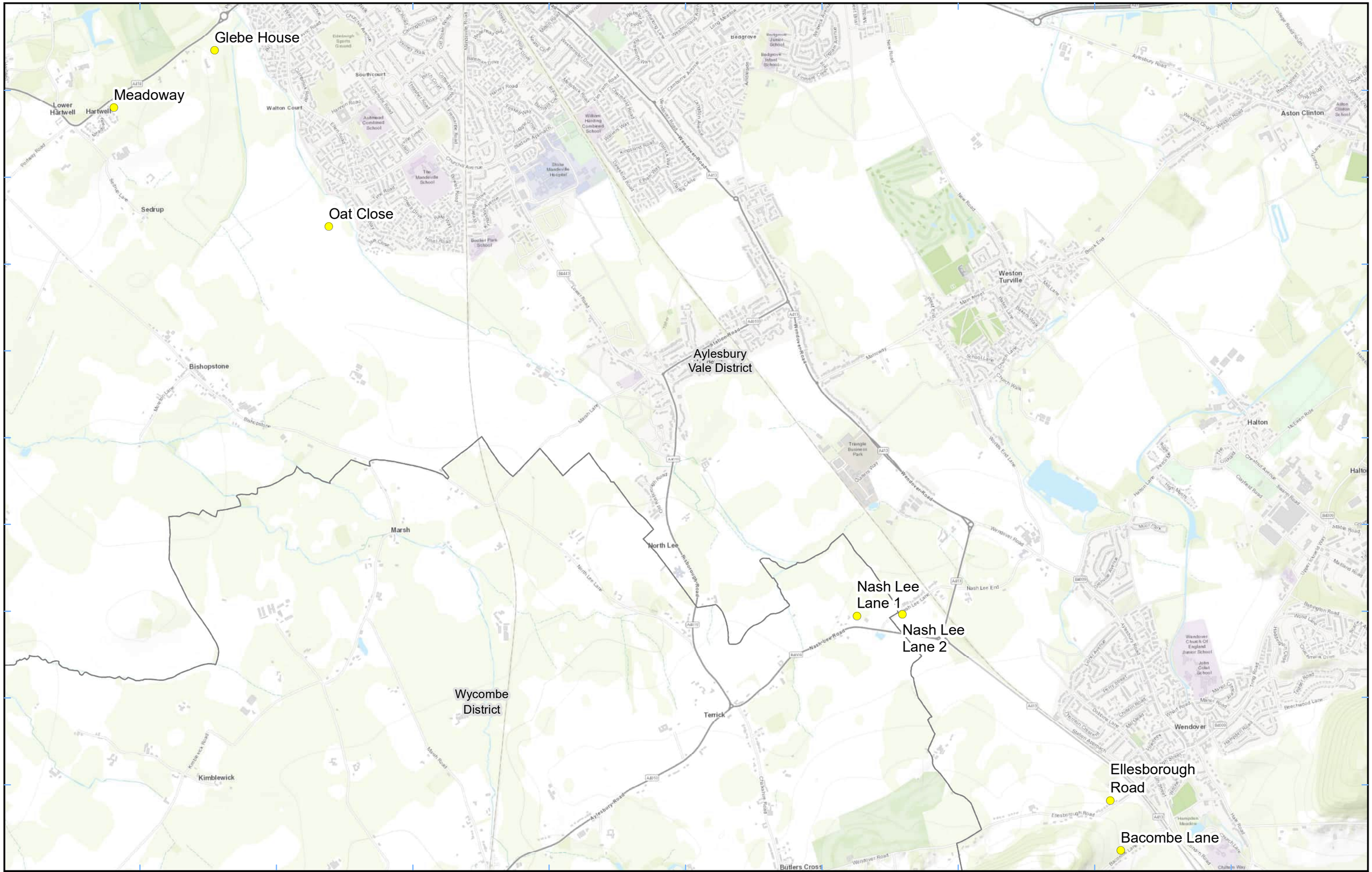
Metres



**Doc Number:**

**Date:** 28/04/22




**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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

Monitoring Locations In BC (Sheet 3)

Buckinghamshire County



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



Scale at A3: 1:23,000

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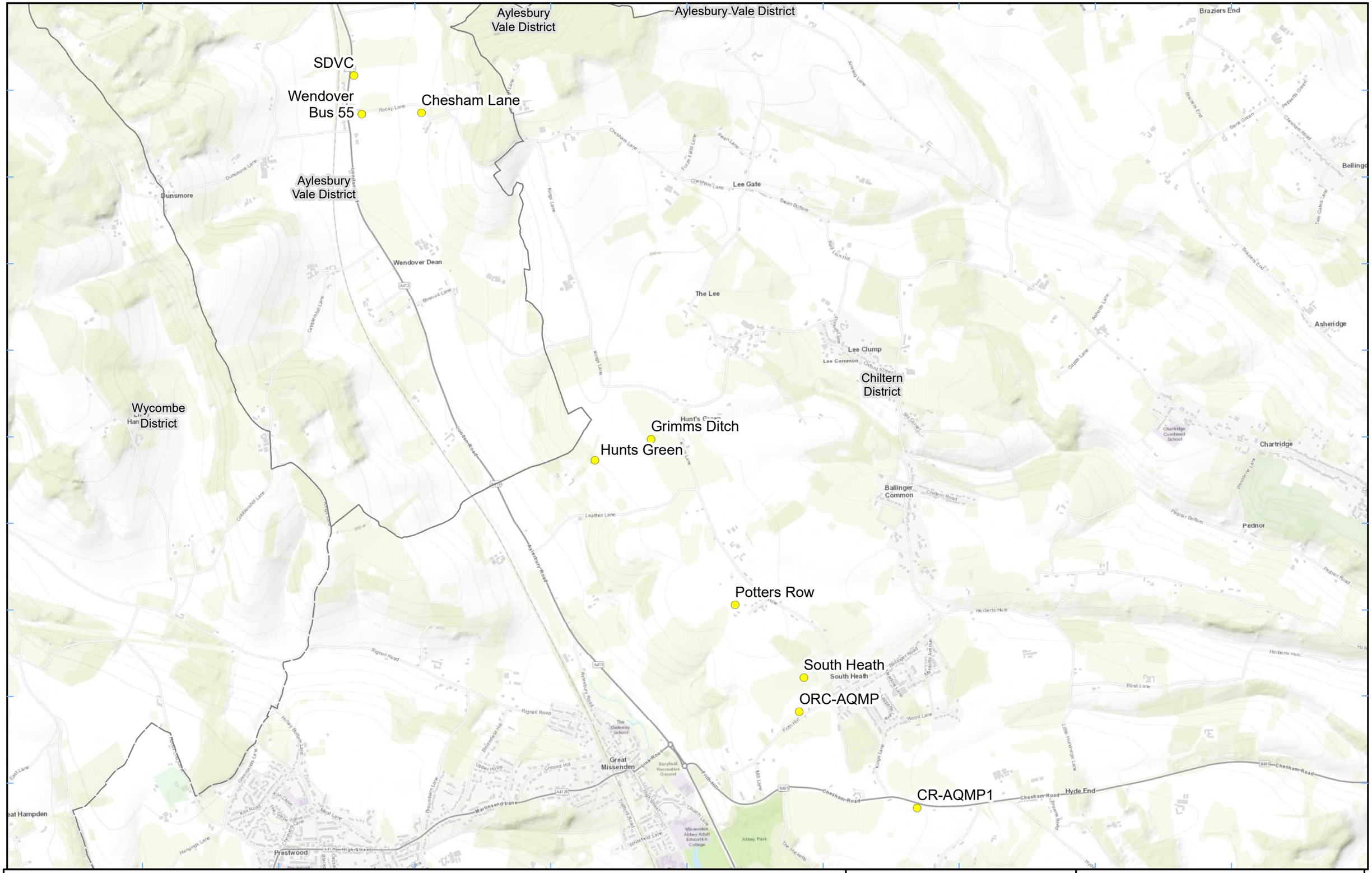
**Doc Number:**

**Date:** 22/02/22




**Legend**

- Dust Monitor
- District Borough Unitary Boundaries



Map Number

Map Name

# Monitoring Locations In BC (Sheet 4)

## Buckinghamshire County



Scale at A3: 1:23,000

0 230 460 690 920 Metres

**Doc Number:**

**Date:** 13/06/22


**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 and Monitoring Locations In BC (Sheet5)

Buckinghamshire County



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



Scale at A3: 1:11,000

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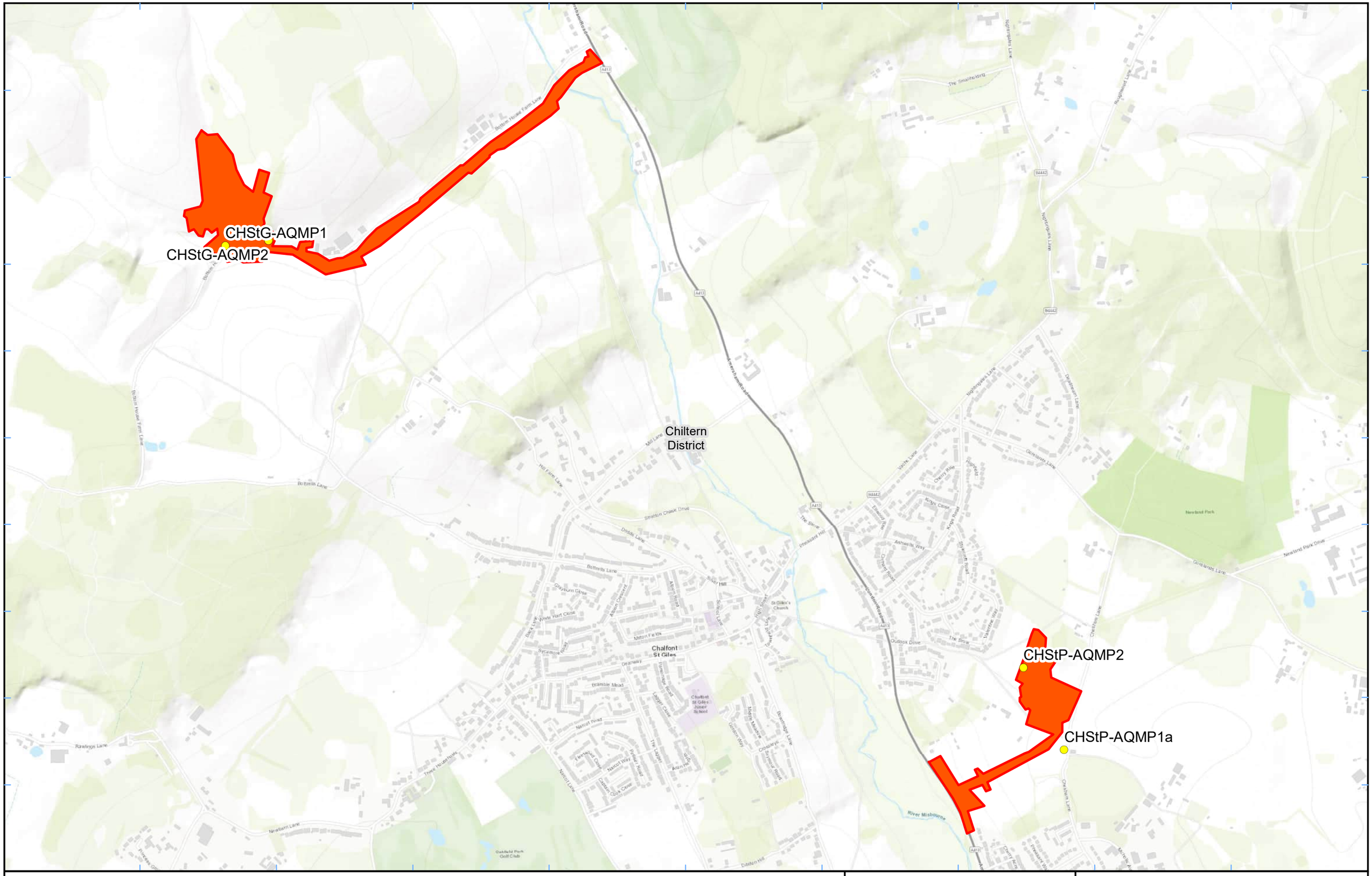
Metres

**Doc Number:**

**Date:** 22/02/22




**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

Monitoring Locations In BC (Sheet 6)

Buckinghamshire County



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



Scale at A3: 1:12,000

0 120 240 360 480
Metres

**Doc Number:**

**Date:** 22/02/22


**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 and Monitoring Locations In BC (Sheet7)

Buckinghamshire County



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



Scale at A3: 1:5,000

0 50 100 150 200
Metres

**Doc Number:**

**Date:** 22/02/22

# Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and June 2022 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 ($\mu g/m^3$) | Minimum 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Maximum 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$ | Data capture (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| CVV-AQMP1 | 503612, 189846 | On the north boundary of LTP1 | M | Yes | Yes | 5.8 | 1.0 | 21.0 | 0 | 99.6 |
| CVV-AQMP2 | 503662, 189775 | On the south boundary of LTP1 | M | Yes | Yes | 5.8 | 1.0 | 22.0 | 0 | 98.6 |
| CHStP-AQMP1a | 500093, 192996 | Relocated from CHStP-NMP1 to site-boundary outside residence | M | Yes | Yes | 5.4 | 1.0 | 16.0 | 0 | 100.0 |
| CHStP-AQMP2 | 499951, 193282 | On the western boundary of the site | M | Yes | Yes | 5.8 | 1.0 | 19.0 | 0 | 99.6 |
| AMER-AQMP1 | 495367, 196722 | On the north-eastern boundary of Amersham | M | Yes | Yes | 6.4 | 1.0 | 29.0 | 0 | 98.2 |
| AMER-AQMP2 | 495263, 196590 | On the south-western boundary of Amersham | M | Yes | Yes | 6.5 | 1.0 | 99.0 | 0 | 100.0 |
| CHStG-AQMP1 | 497170, 194752 | On the southern boundary close to Hobbs Hole Cottage | M | Yes | Yes | 5.1 | 1.0 | 18.0 | 0 | 84.2 |
| CHStG-AQMP2 | 497320, 194770 | On southern boundary next to carpark | M | Yes | Yes | 5.8 | 1.0 | 140.0 | 0 | 55.0 |

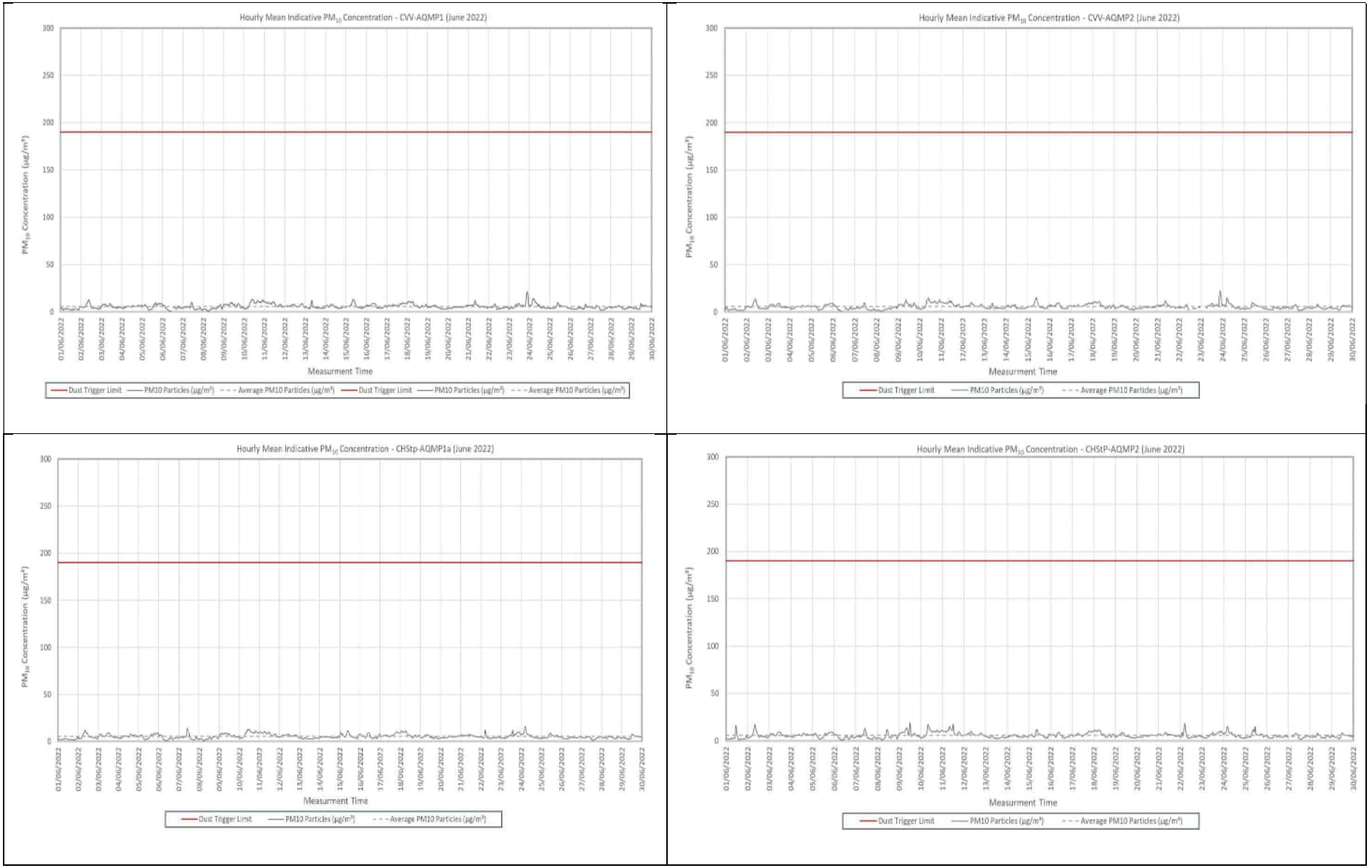
| Monitoring site ID | Coordinates (X,Y) | Location description | Dust risk rating for site | Monitoring site active during period | Change to site since previous period report | Mean 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Minimum 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Maximum 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$ | Data capture (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| LMS-AQMP1 | 493190, 198848 | On the south-west of the site | M | Yes | Yes | 6.1 | 1.0 | 20.0 | 0 | 97.1 |
| LMS-AQMP2 | 493407, 198731 | On the south-east of the site | M | Yes | Yes | 6.3 | 1.0 | 22.0 | 0 | 96.3 |
| CR-AQMP1 | 491291, 201143 | On the Chesham Road Vent Shaft | M | Yes | Yes | 5.8 | 1.0 | 34.0 | 0 | 98.2 |
| ORC-AQMP | 490503, 201786 | Orchard Cottage South-eastern Site Boundary | M | Yes | Yes | 5.4 | 1.0 | 23.0 | 0 | 95.0 |
| School Hill (CAL-AQMP2) - Dust | 469003, 224740 | School Hill Compound | M | Yes | Yes | 5.4 | 1.0 | 14.0 | 0 | 16.9 |
| School End – Dust | 463666, 230049 | School End, Chetwode | M | Yes | Yes | 6.6 | 1.0 | 36.0 | 0 | 99.6 |
| Rosehill Farm – Dust | 464368, 228939 | Rosehill Farm, Chetwode | M | Yes | Yes | 14.7 | 1.6 | 216.3 | 1 | 90.3 |
| South Heath – Dust | 490534, 202014 | Bury Farm, South Heath | M | Yes | Yes | 6.8 | 1.0 | 30.0 | 0 | 99.0 |
| Potter Row – Dust | 490075, 202502 | Potter Row, South Heath | M | Yes | Yes | 7.1 | 1.0 | 39.0 | 0 | 52.4 |
| Grimms Ditch- Dust | 489135, 203468 | Leather Lane, The Lee, South Heath | M | Yes | Yes | - | - | - | - | - |
| Hunts Green – Dust | 489511, 203611 | The Lee, South Heath | M | Yes | Yes | 5.9 | 1.0 | 18.0 | 0 | 63.9 |
| Chesham Lane - Dust | 487974, 205794 | Chesham Lane, The Lee, Wendover | M | Yes | Yes | 7.2 | 1.0 | 354.0 | 1 | 81.3 |
| Wendover Bus 55 - Dust | 487574, 205787 | Chesham Lane, The Lee, Wendover | M | Yes | Yes | 6.2 | 1.0 | 96.0 | 0 | 81.1 |
| Meadoway – Dust | 479803, 212178 | Aylesbury, Buckinghamshire | M | Yes | Yes | 5.9 | 1.0 | 26.0 | 0 | 99.6 |

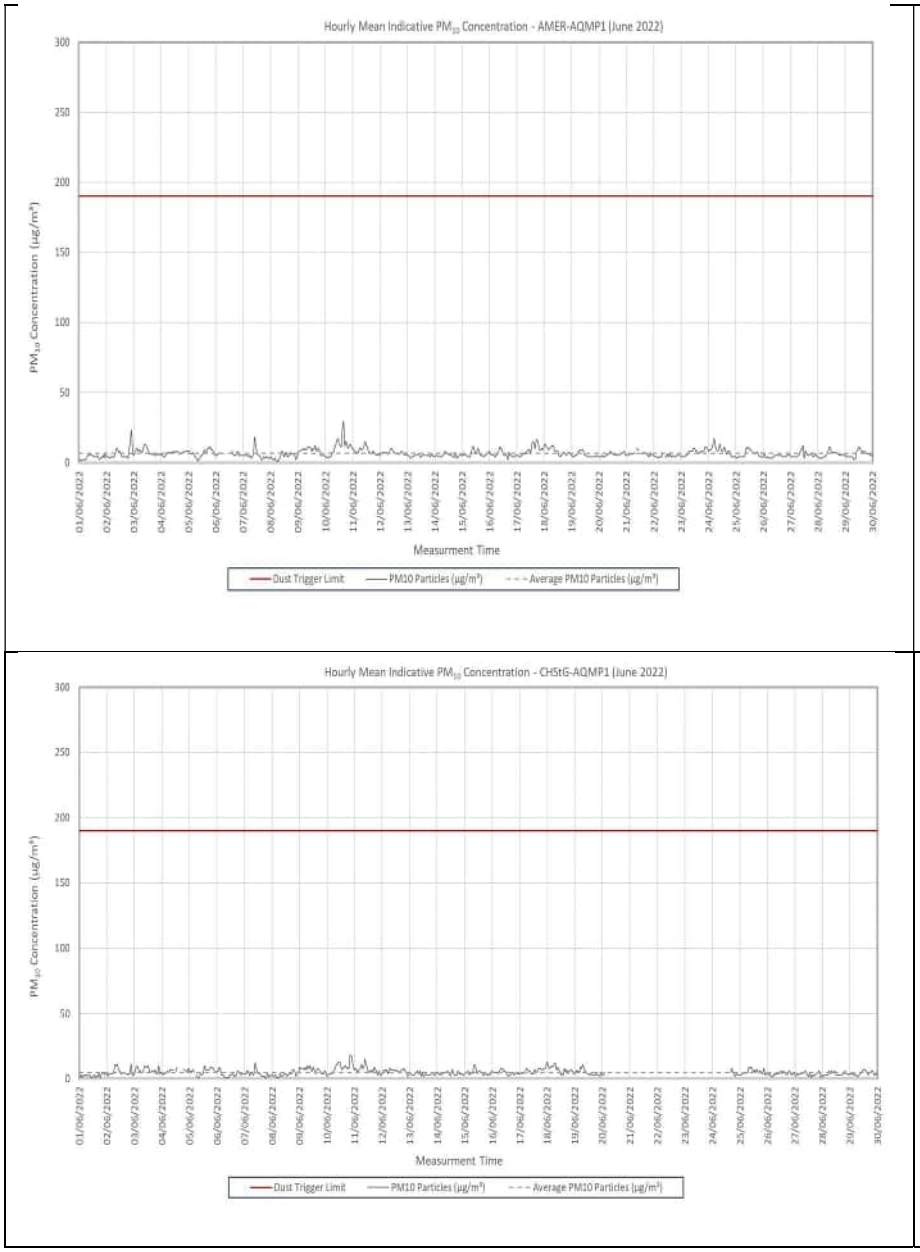
| Monitoring site ID | Coordinates (X,Y) | Location description | Dust risk rating for site | Monitoring site active during period | Change to site since previous period report | Mean 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Minimum 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Maximum 1-hour $PM_{10}$ concentration ($\mu g/m^3$) | Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$ | Data capture (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| Oat Close – Dust | 481237, 211384 | Oat Close, Bishopstone, Aylesbury | M | Yes | Yes | 5.8 | 1.0 | 26.0 | 0 | 99.7 |
| Twyford - Dust | 466544, 226883 | Twyford, Buckinghamshire | M | Yes | Yes | 5.6 | 1.0 | 26.0 | 0 | 100.0 |
| Chetwode/Hermitage – Dust | 463936, 229521 | Hermitage, Chetwode | M | Yes | Yes | 6.1 | 1.0 | 34.0 | 0 | 100.0 |
| Glebe House - Dust | 480475, 212560 | A418 Aylesbury | M | Yes | Yes | 5.7 | 1.0 | 23.0 | 0 | 99.6 |
| Turweston North - Dust | 460439 , 237140 | Turweston, Buckinghamshire | M | Yes | Yes | 5.7 | 1.0 | 38.0 | 0 | 99.9 |
| FCC - Dust | 469042 , 224263 | Adjacent Red Kite View, Calvert | M | Yes | Yes | 7.6 | 1.0 | 48.0 | 0 | 100.0 |
| Ellesborough Road | 486458 , 207550 | Ellesborough Road, Wendover | M | Yes | Yes | 5.6 | 1.0 | 20.0 | 0 | 99.2 |
| Nash Lee Road | 484766 , 208782 | Nash Lee Lane (west) | M | Yes | Yes | 6.2 | 1.0 | 37.0 | 0 | 99.6 |
| Nash Lee Lane | 485069 , 208793 | Nash Lee Lane (east) | M | Yes | Yes | 5.8 | 1.0 | 29.0 | 0 | 99.6 |
| Bacombe Lane | 486528 , 207217 | Bacombe Lane, Wendover | M | Yes | Yes | 5.6 | 1.0 | 38.0 | 0 | 100.0 |
| SDVC | 487522, 206043 | Small Dean Viaduct, London Road | M | Yes | Yes | 6.5 | 1.0 | 76.0 | 0 | 99.3 |
| Station Road | 474068, 219307 | Station Road, Quainton | M | Yes | Yes | 5.8 | 1.0 | 29.0 | 0 | 99.6 |
| Wendover Town | 486193, 207950 | Wendover Bypass, Wendover | M | Yes | Yes | 3.8 | 1.0 | 17.0 | 0 | 31.7 |

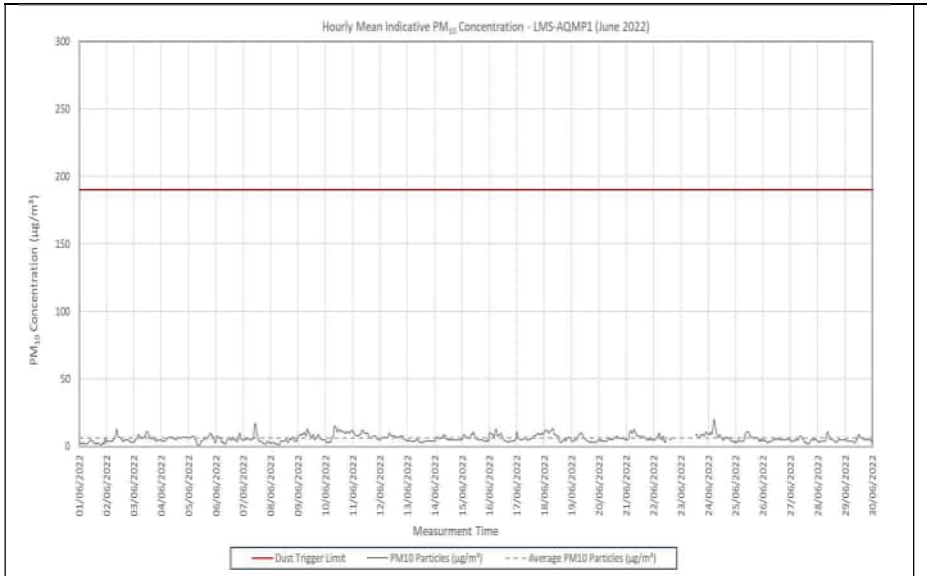
Table 3: Summary of exceedances during period (June 2022)

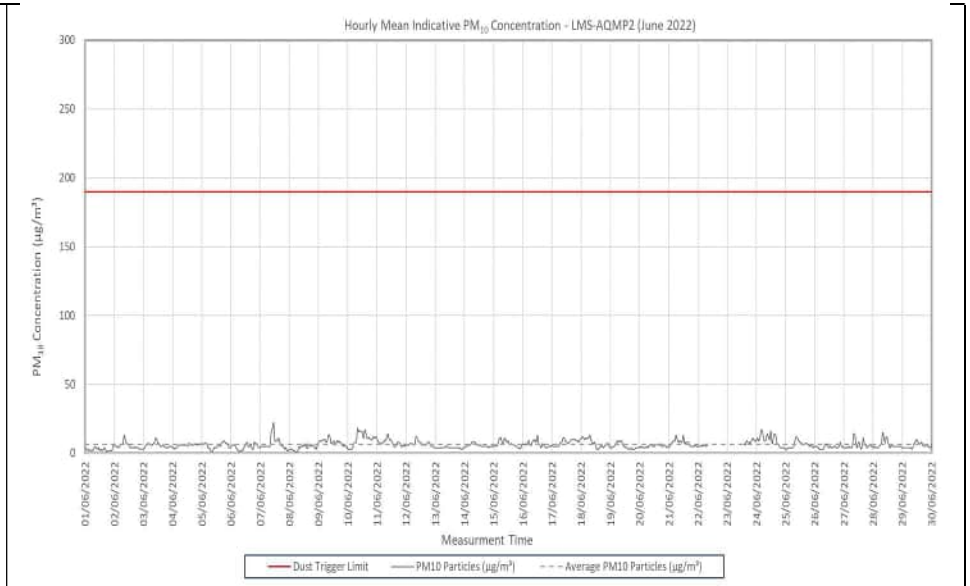
| Monitoring Site ID | Period of trigger alert & Concentration recorded | Investigation | Outcomes / Resolution / Remedial measures implemented |
|---|---|---|---|
| Chesham Lane – Dust | 02/06/22<br>18:00 - 18:59; 354 µg/m$^3$ | No works undertaken by EKFB after 18:00h | N/A |
| Rosehill Farm – Dust | 15/06/22<br>14:00 - 14:59; 216.3 µg/m$^3$ | During this day, EKFB were moving materials (Subsoil/Topsoil) from Chetwode North Excavation to Twyford. The dust exceedance was recorded by Rosehill Farm monitoring, located 50m from the site access road.<br>It was a particular dry day and works have to stop during the afternoon due to amount of dust. | Dust suppression was in place and effective every 1. No external dust activities were observed on site. Therefore, dust exceedances may have been generated by ADTs movement. |

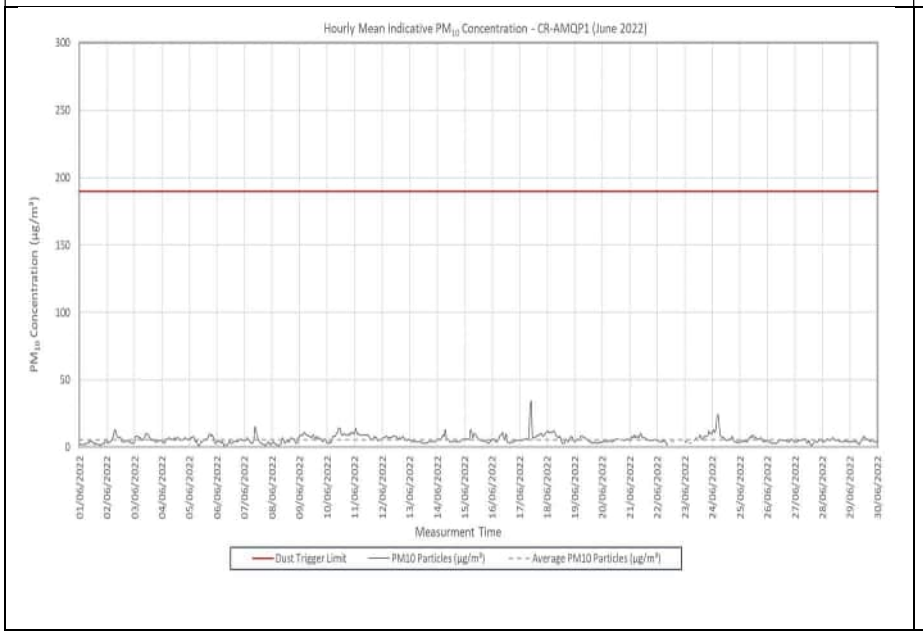
Figure 8: Continuous dust 1-hour mean indicative $PM_{10}$ concentration for all monitors

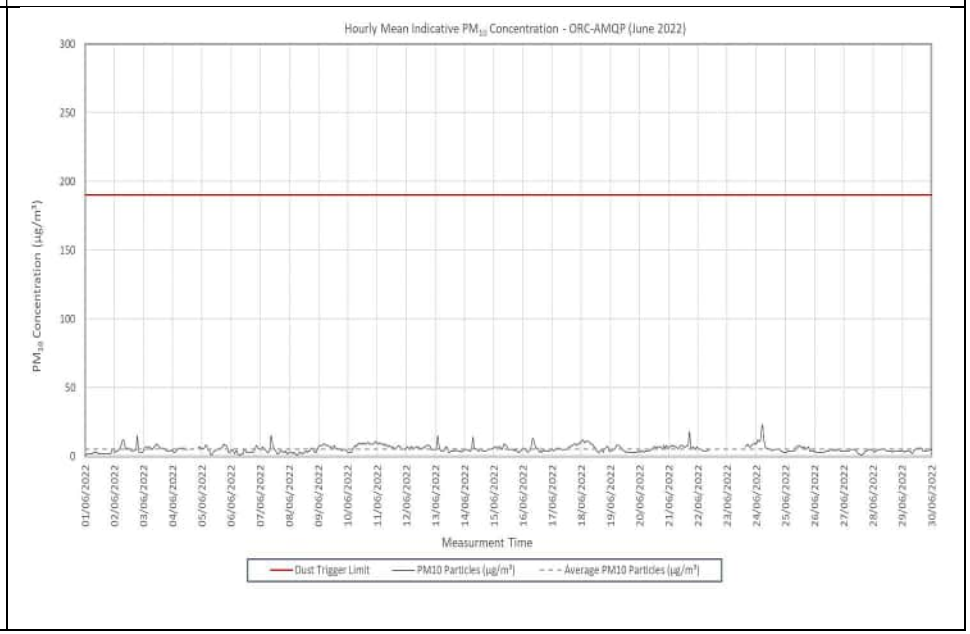


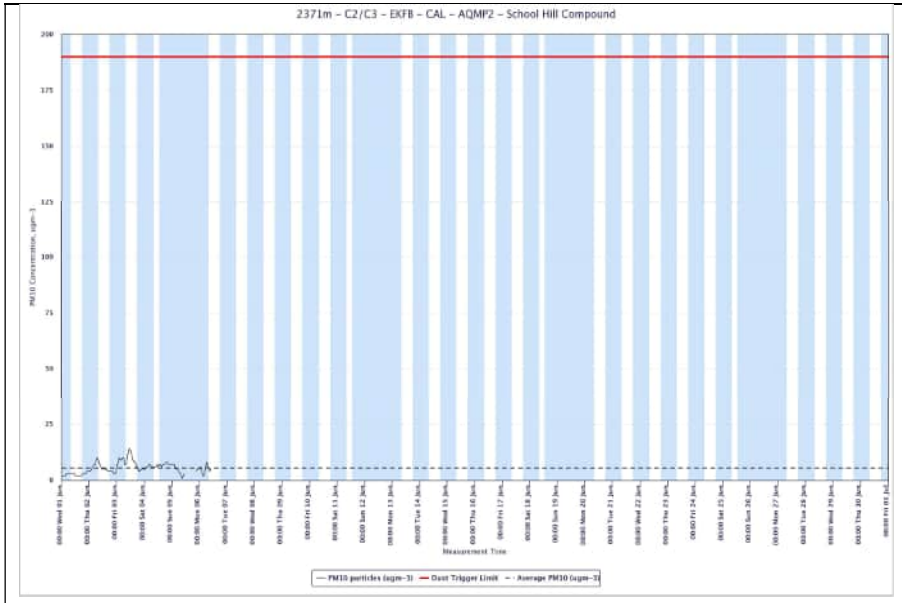

Hourly Mean Indicative PM10 Concentration - AMER-AQMP1 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)
Hourly Mean Indicative PM10 Concentration - AMER-AQMP2 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)
Hourly Mean Indicative PM10 Concentration - CH5tG-AQMP1 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)
Hourly Mean Indicative PM10 Concentration - CH5tG-AQMP2 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)

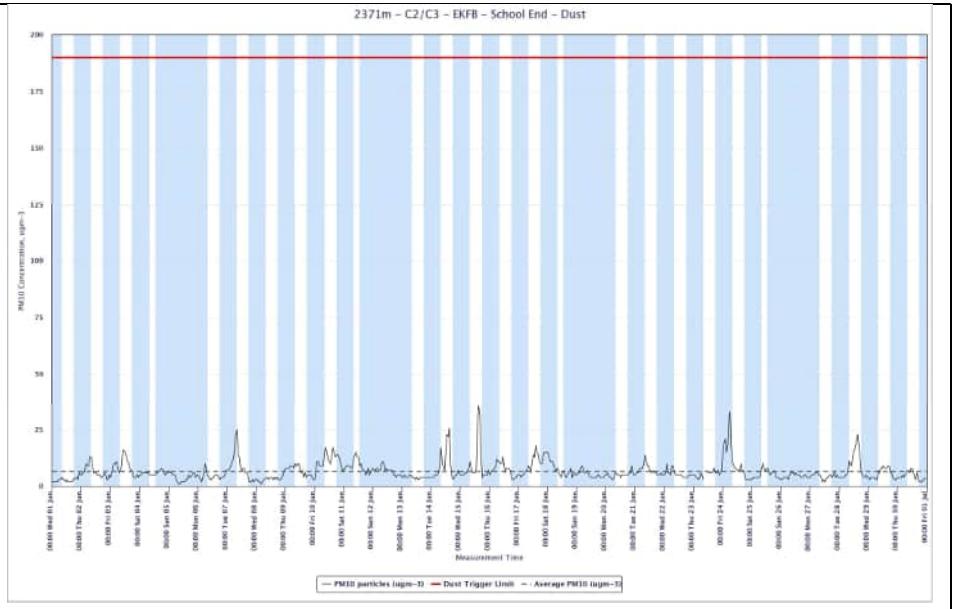

Hourly Mean Indicative PM10 Concentration - LMS-AQMP1 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)

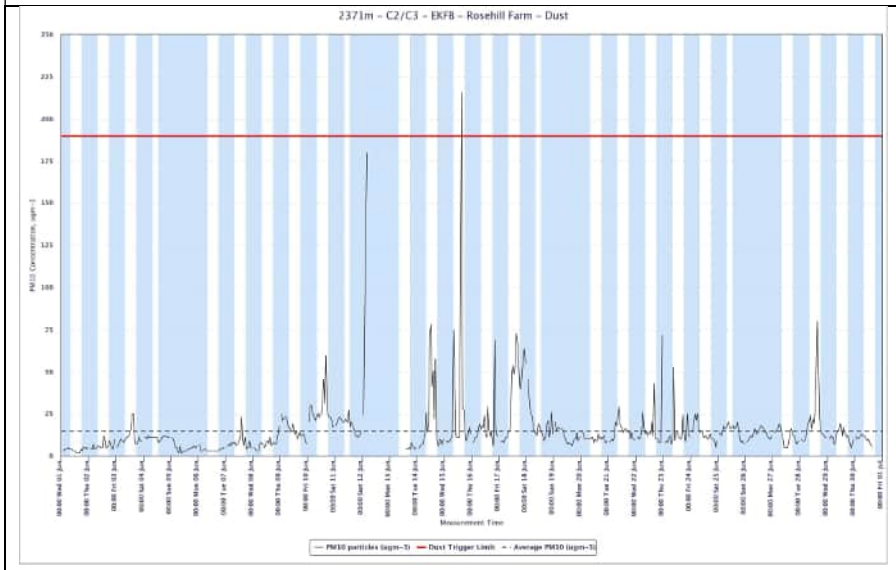

Hourly Mean Indicative PM10 Concentration - LMS-AQMP2 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)

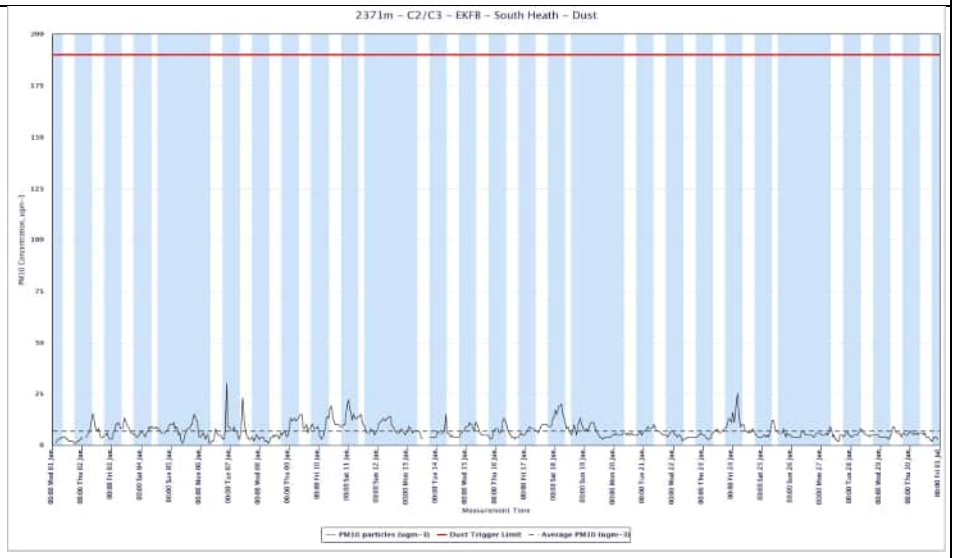

Hourly Mean Indicative PM10 Concentration - CR-AMQP1 (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)

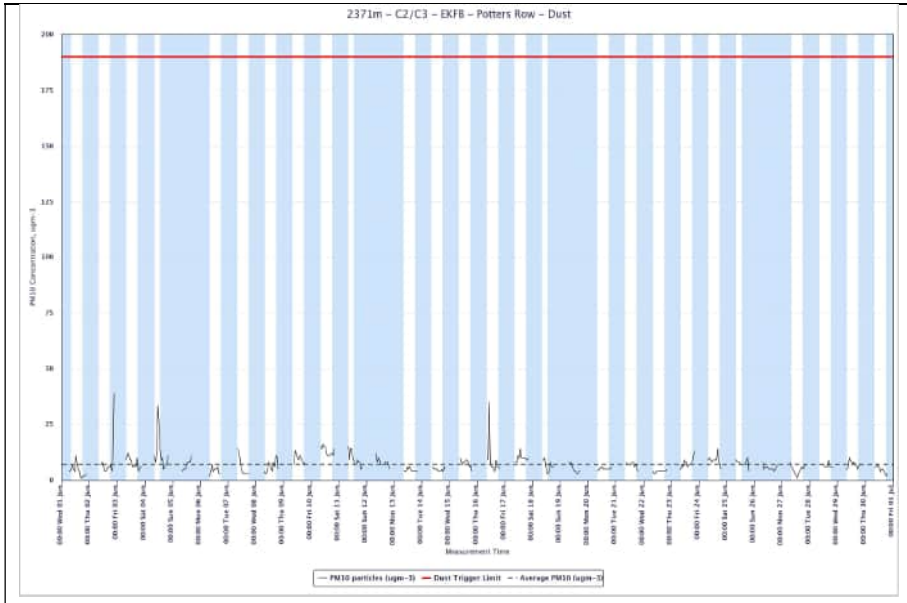

Hourly Mean Indicative PM10 Concentration - ORC-AMQP (June 2022)
PM10 Concentration (µg/m³)
Measurment Time
Dust Trigger Limit
PM10 Particles (µg/m³)
Average PM10 Particles (µg/m³)

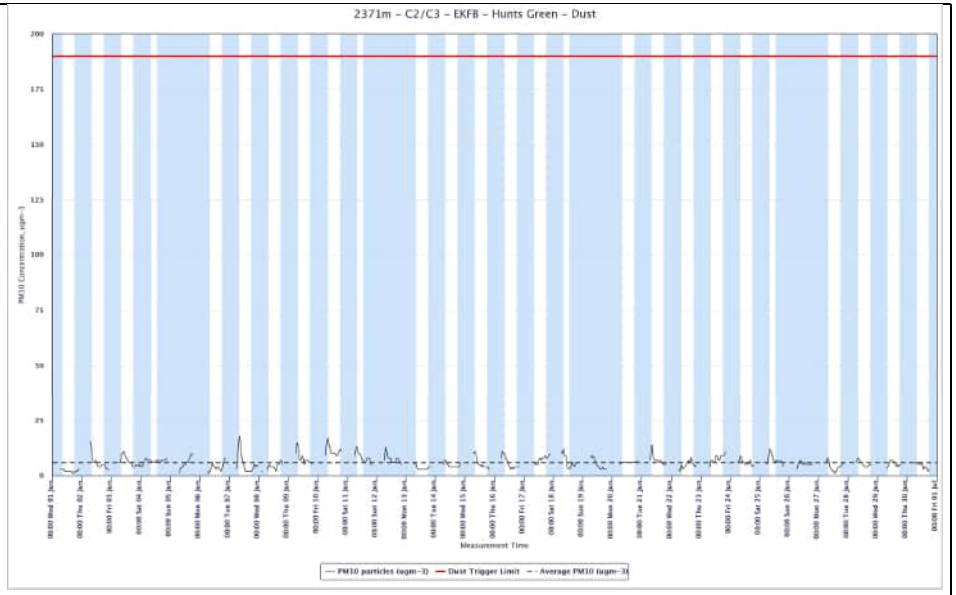

2371m – C2/C3 – EKFB – CAL – AQMF2 – School Hill Compound
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

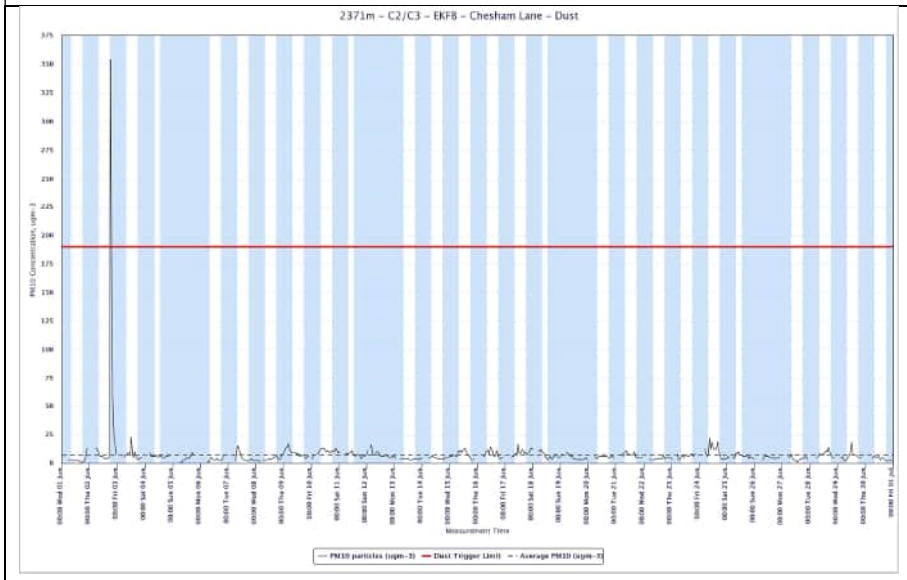

2371m – C2/C3 – EKFB – School End – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

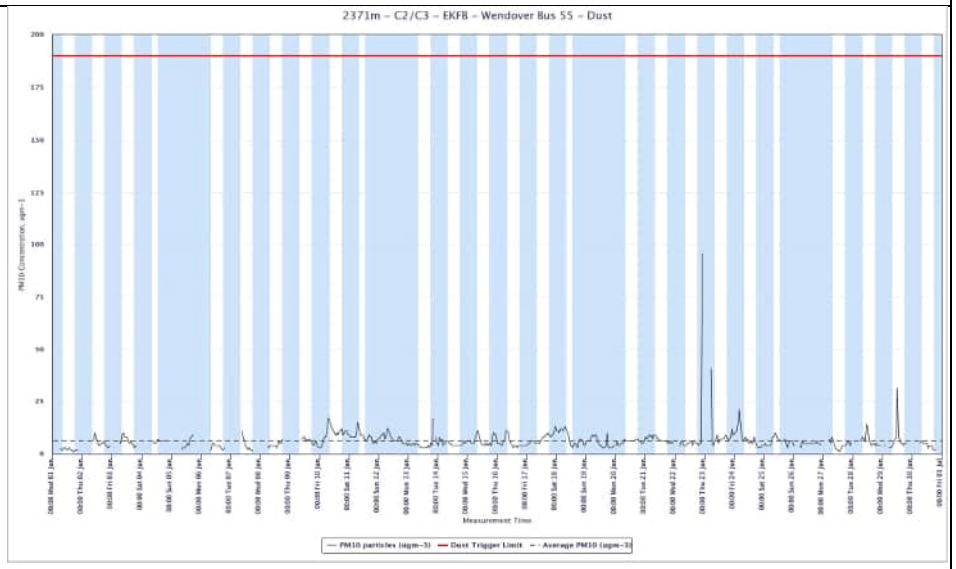

2371m – C2/C3 – EKFB – Rosehill Farm – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

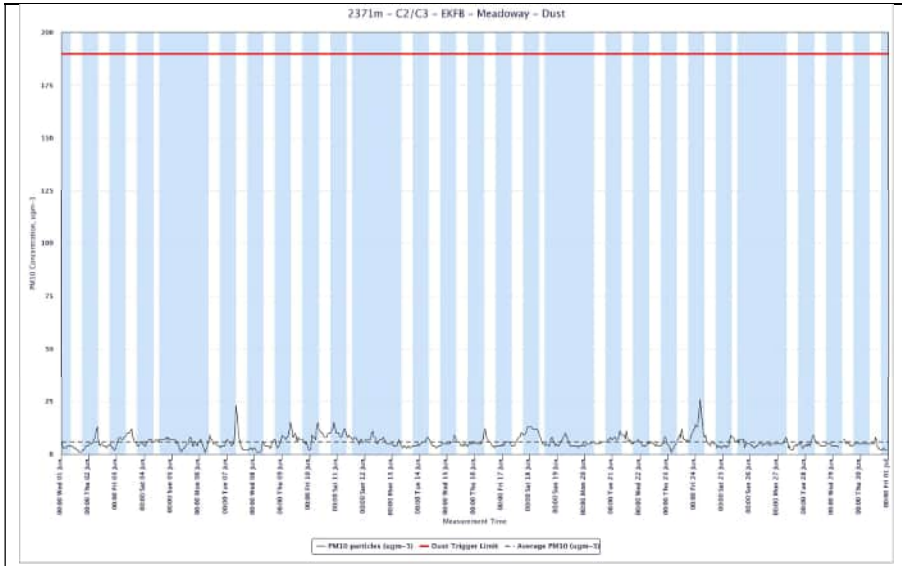

2371m – C2/C3 – EKFB – South Heath – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

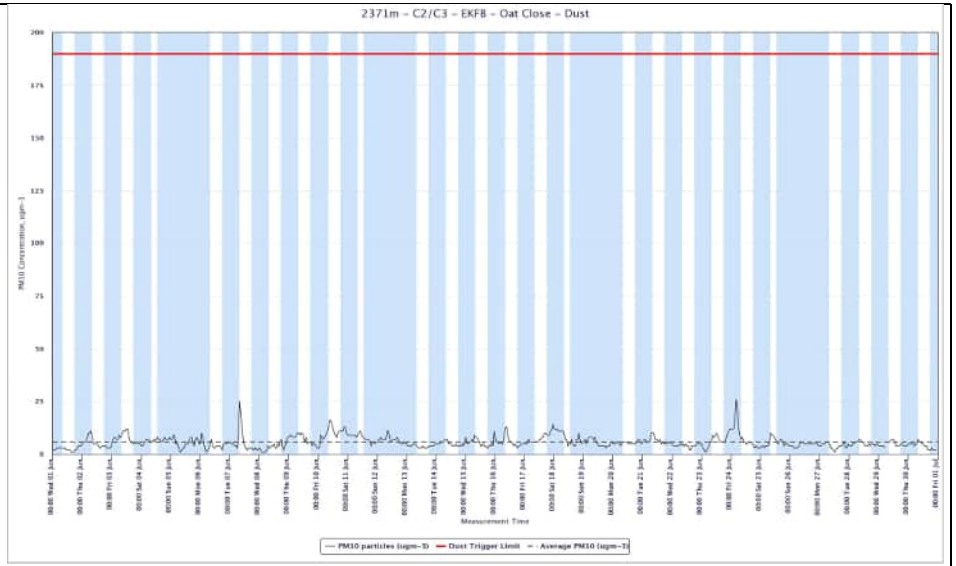

2371m – C2/C3 – EKFB – Potters Row – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

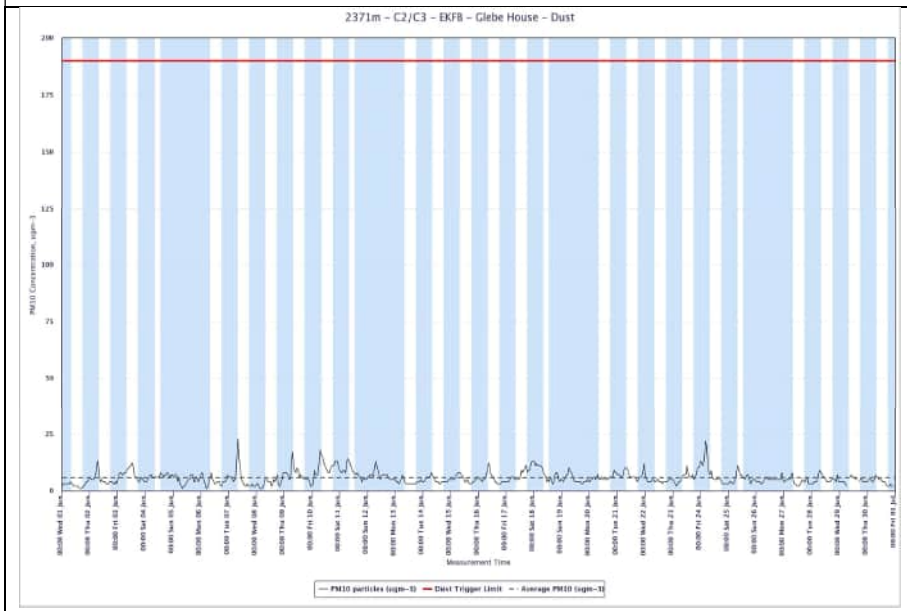

2371m – C2/C3 – EKFB – Hunts Green – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

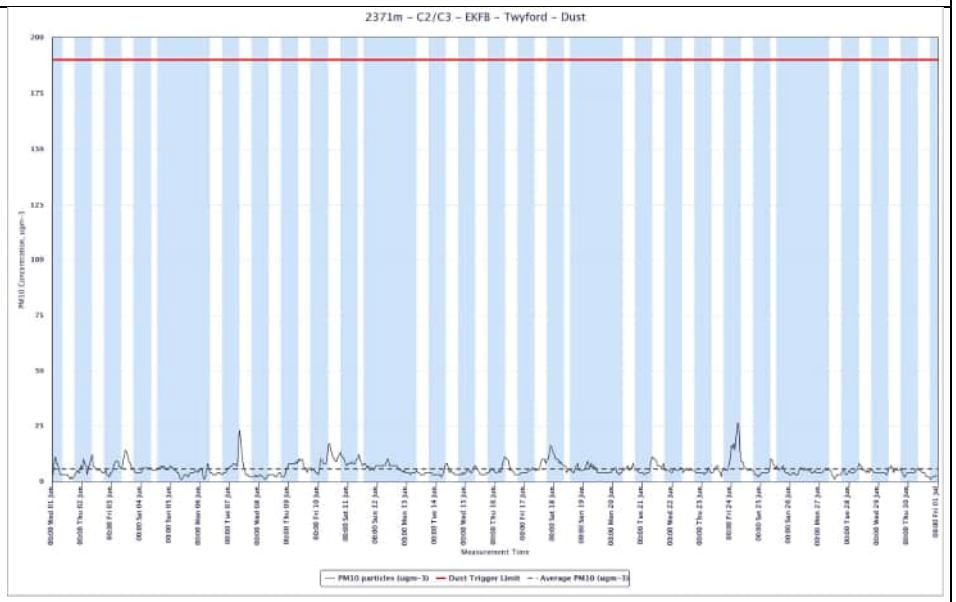

2371m – C2/C3 – EKFB – Chesham Lane – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

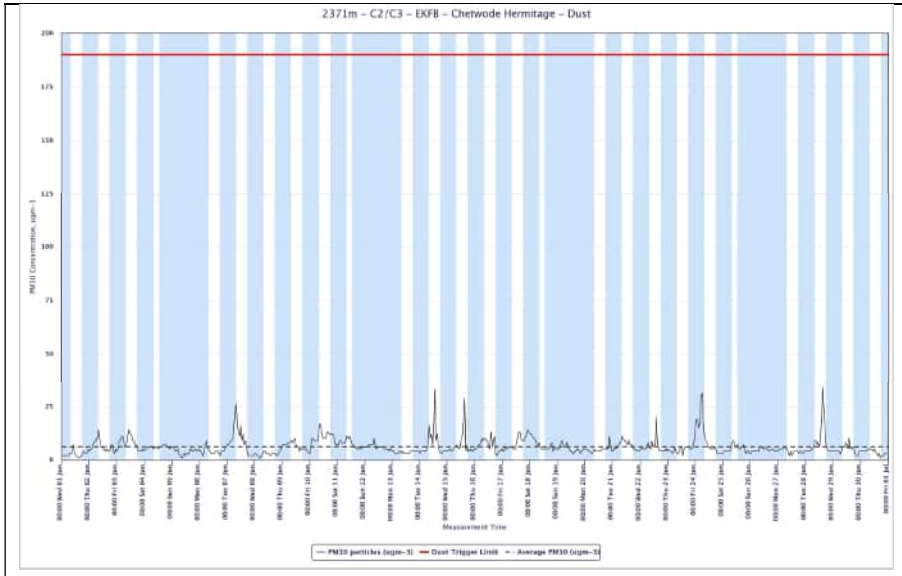

2371m – C2/C3 – EKFB – Wendover Bus 55 – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

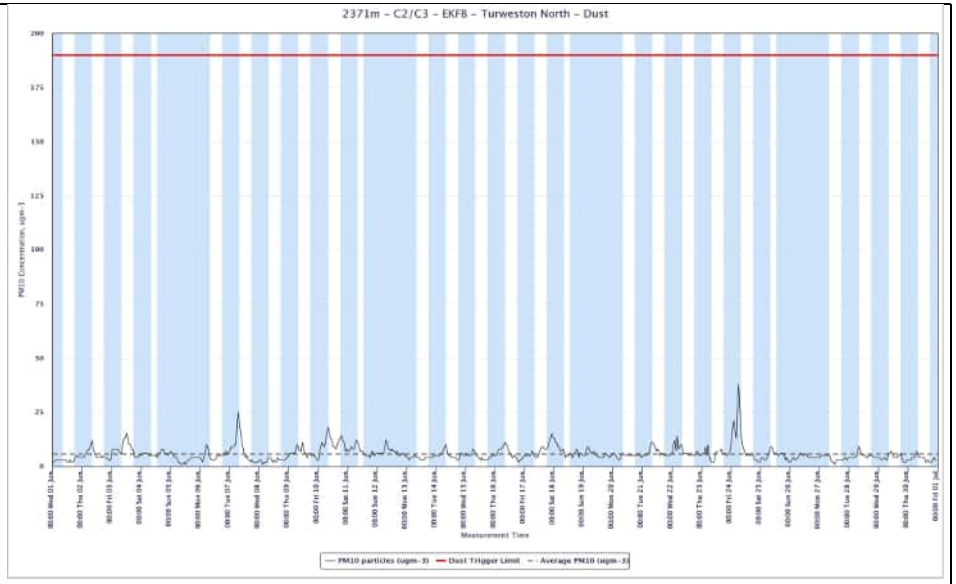

2371m – C2/C3 – EKFB – Meadoway – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

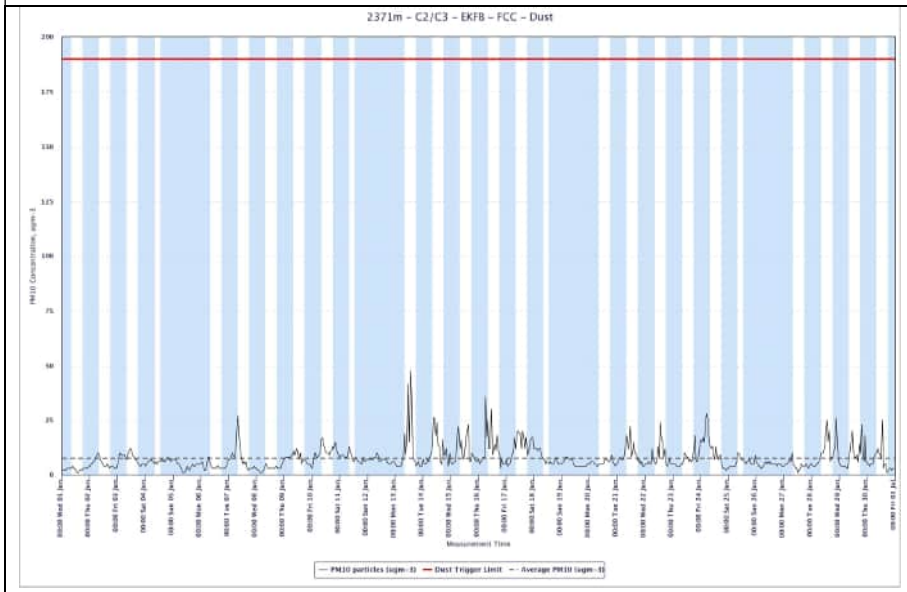

2371m – C2/C3 – EKFB – Oat Close – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

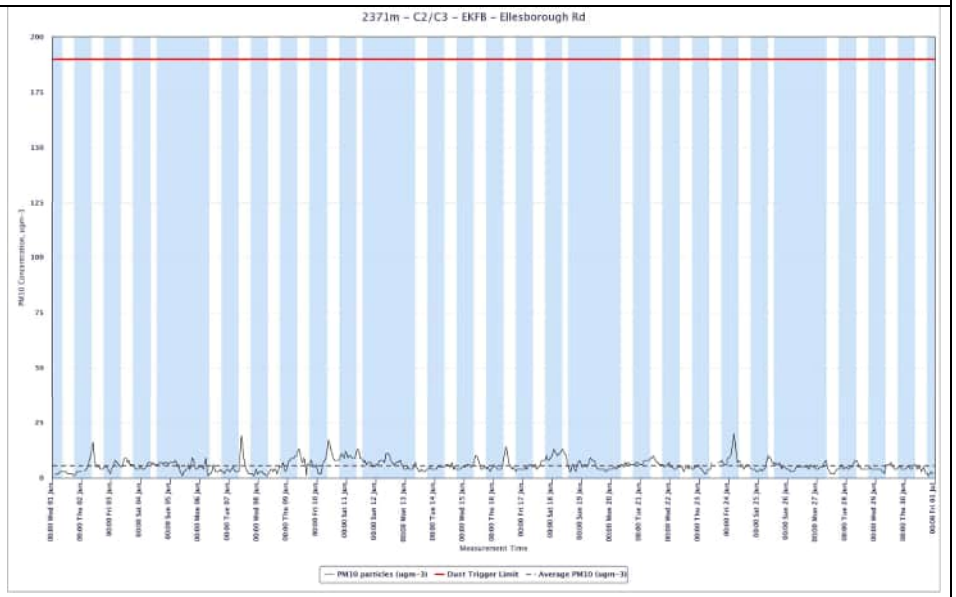

2371m – C2/C3 – EKFB – Glebe House – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

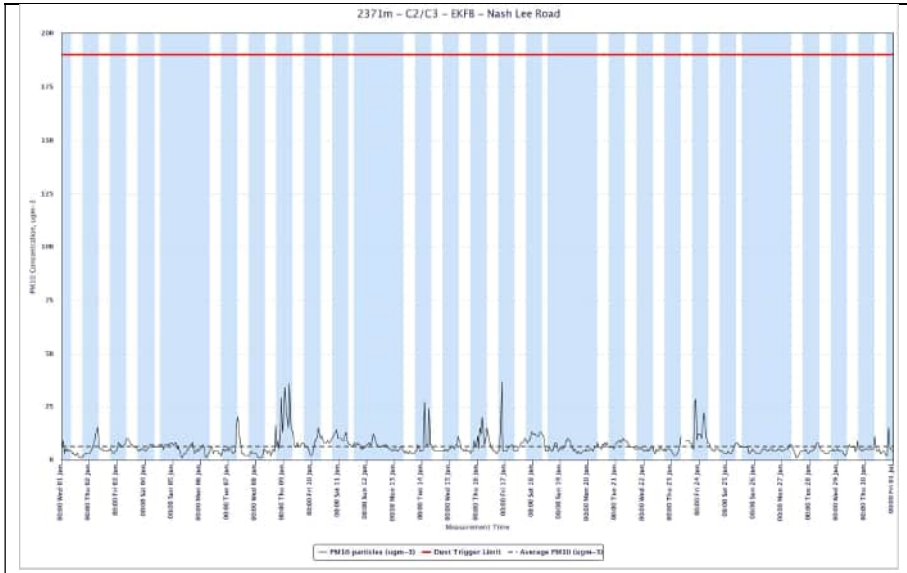

2371m – C2/C3 – EKFB – Twyford – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

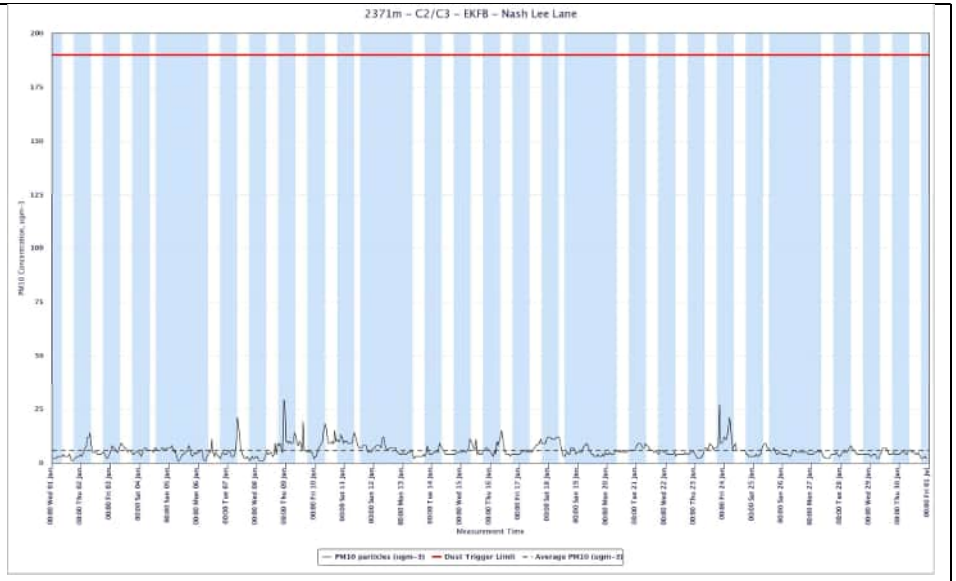

2371m – C2/C3 – EKFB – Chetwode Hermitage – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

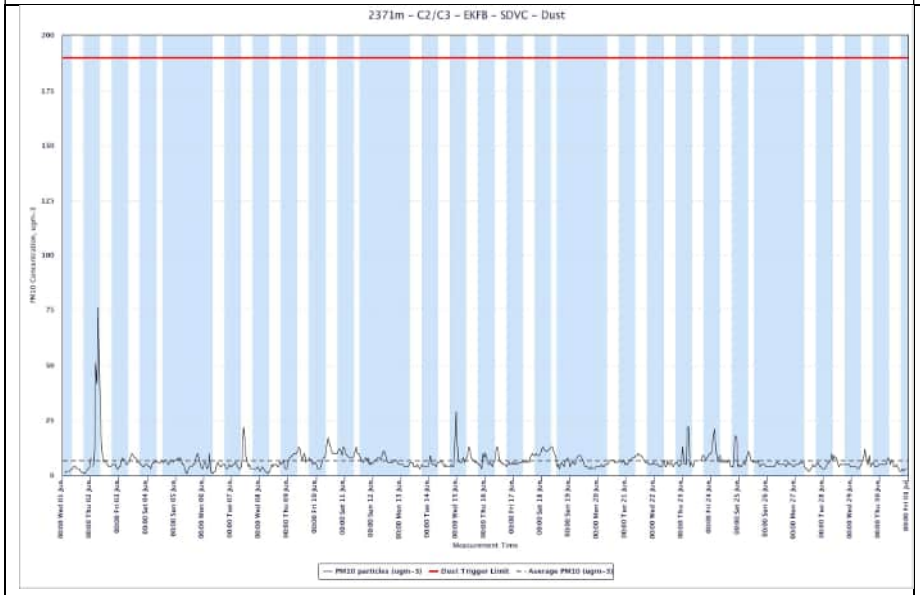

2371m – C2/C3 – EKFB – Turweston North – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

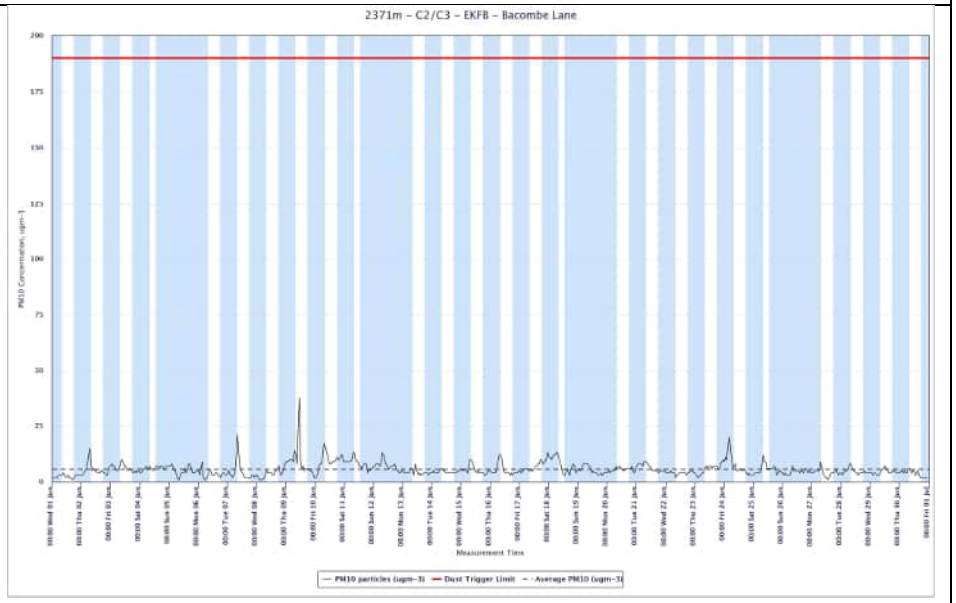

2371m – C2/C3 – EKFB – FCC – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

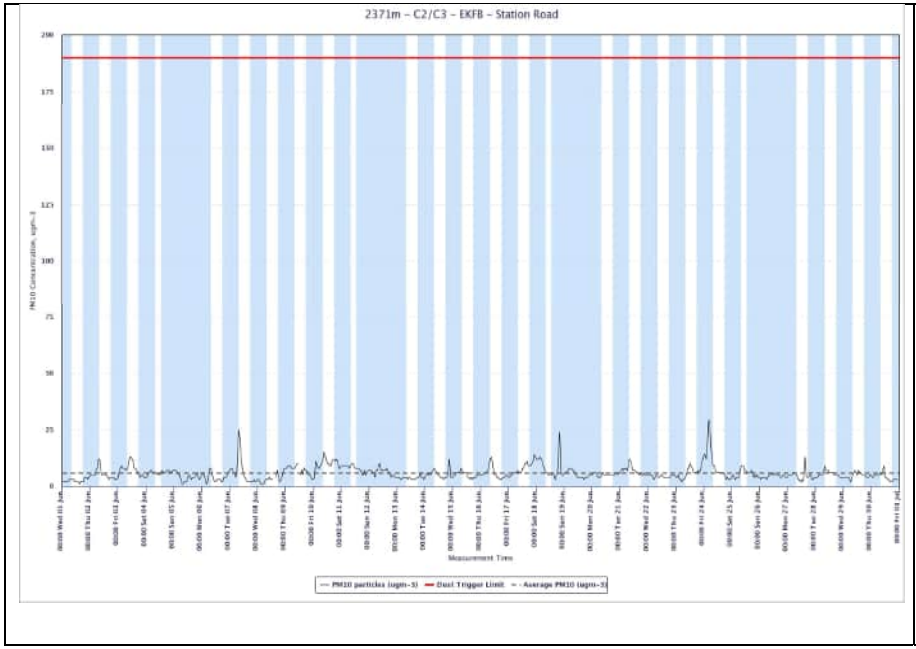

2371m – C2/C3 – EKFB – Ellesborough Rd
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)

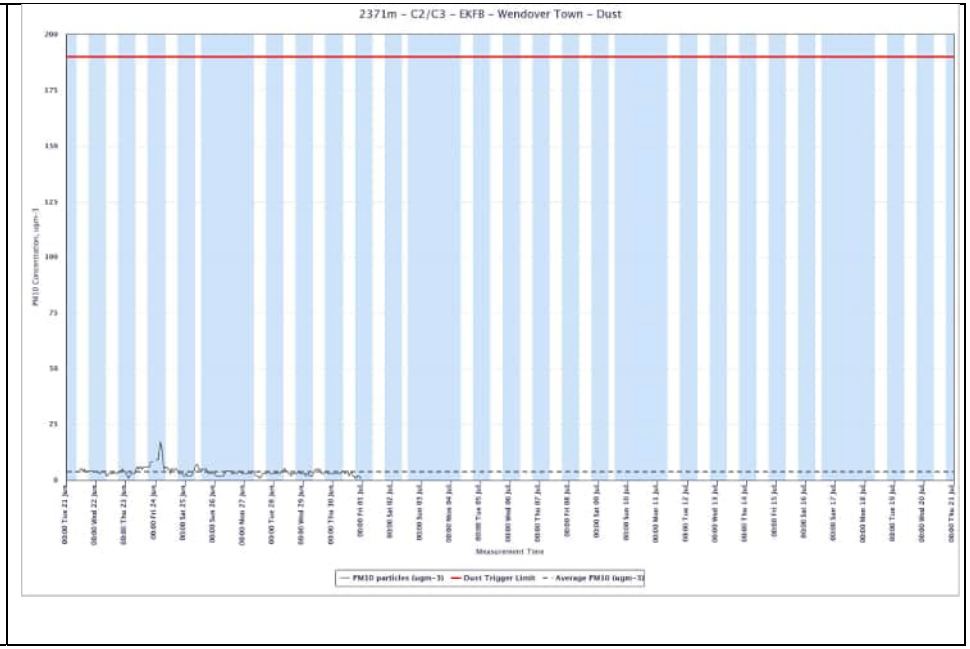

2371m – C2/C3 – EKFB – Nash Lee Road
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)


2371m – C2/C3 – EKFB – Nash Lee Lane
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)


2371m – C2/C3 – EKFB – SDVC – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)


2371m – C2/C3 – EKFB – Bacombe Lane
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)


2371m – C2/C3 – EKFB – Station Road
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)


2371m – C2/C3 – EKFB – Wendover Town – Dust
PM10 Concentration, ugm-3
Measurement Time
PM10 particles (ugm-3)
Dust Trigger Limit
Average PM10 (ugm-3)