

## Air Quality and Dust Monitoring Monthly Report – April 2026

Three Rivers District 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 Three Rivers District Council (TRDC) during April 2026.

1.1.2 Figure 1 in Appendix A presents the current worksite 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](http://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, Figure 1, include:

## **South Portal site (Phase 13)**

- General Plant: Wheel washers, generators and site-wide support plant;
- Earthworks and Drainage: Excavation, drainage, filling & subgrade, ground stabilisation, chalk cake placement, stockpiling and pugmill plant operation;
- Batching Plant 2 and 3: Deliveries and operation (Batching plant 2&3), collection of concrete for tunnel walkways and CP works;
- Tunnelling Works (Surface Support): Cooling plant operation, multi-service vehicles, storage on top of south portal, tunnel walkways and decommissioning of tunnel support activities;
- Concrete Breaking Activities: Concrete processing activities and breaking of building/structure base slabs and V-pier Mock-up;
- South Portal Civils Works: Permanent works and porous works;
- Surface Water Management: Surface water management and pond water treatment plan;
- Landscaping Works: Seeding, planting, and fencing; and
- Site demobilisation: Steel scraping area, Dismantling – Cake Shed, TBM and Warehouse, Tunnel precast factory building dismantling, and batching plant 2&3 aggregate bay dismantling.

1.1.5 Four (4) dust monitors are installed around this worksite, where works are underway. These sites returned a medium dust risk rating.

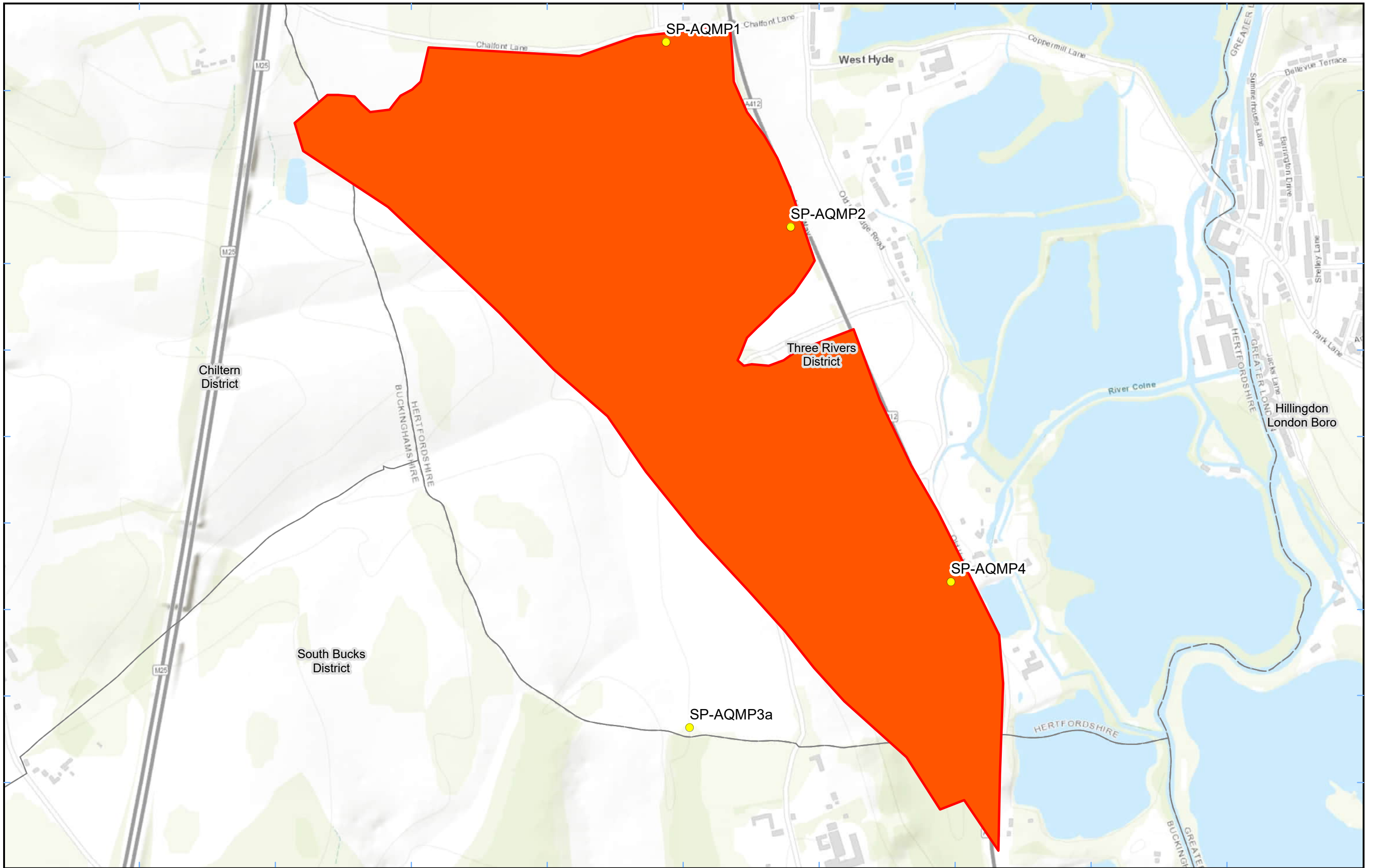
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented in Figure 2. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, measured as a 1-hour mean, in accordance with the updated IAQM guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 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 There were no (0) complaints received during the reporting period (April 2026).

# Appendix A – Worksite and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within TRDC



**Legend**  
 Dust Monitor  
 Worksite  
 District Borough Unitary Boundaries

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Map Number  
 Map Name  
**Worksite and Monitoring Locations  
 In TRDC (Sheet 1)**  
 Three Rivers District Council

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## 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 PM10 concentration (µg/m3)	Minimum 1-hour PM10 concentration (µg/m3)	Maximum 1-hour PM10 concentration (µg/m3)	Number of 1-hour periods exceeding trigger level of 190 µg/m3	Data capture (%)
SP-AQMP1	502922, 191467	On the northern boundary of the site at Chalfont Lane	M	Yes	Yes	6.4	1.0	26.0	0	98.6
SP-AQMP2	503176, 191090	On the eastern boundary of the site at Denham Way	M	Yes	Yes	9.2	3.7	29.5	0	99.6
SP-AQMP3a	502970, 190069	On the southern boundary of the site at Old Shire Lane	M	Yes	Yes	13.9	2.4	277.4	5	99.6
SP-AQMP4	503503, 190366	On the eastern boundary of the site on the A412	M	Yes	Yes	7.6	2.9	33.9	0	99.6

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

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
SP -AQMP3a	04/04/2026 06:01 – 07:00; 216 µg/m <sup>3</sup> 14:01 – 15:00; 238 µg/m <sup>3</sup>  05/04/2026 07:01 – 08:00; 232 µg/m <sup>3</sup> 11:01 – 12:00; 234 µg/m <sup>3</sup>  07/04/2026 15:01 – 16:00; 277 µg/m <sup>3</sup>	The elevated dust levels between 2 and 7 April 2026 occurred during a period of unsettled weather associated with Storm Dave. It affected the UK mainly between 4 and 5 April, bringing strong winds and wet weather, particularly across western and northern areas. While the strongest winds were not centred on the Southeast, the wider unsettled conditions may have contributed to short-term increases in dust through local resuspension from roads, exposed ground or nearby activity. Therefore, Storm Dave provides a plausible meteorological context for the elevated readings but should not be treated as the sole cause without review of local wind, rainfall and site activity data.	N/A

Figure 2: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors

