

Air Quality and Dust Monitoring Monthly Report – August 2018

Three Rivers District Council



Department for Transport

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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 August 2018.
- 1.1.2 Figure 1 in Appendix A indicates the current work sites together with dust and air quality monitoring locations for August 2018.
- 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 phase of works commenced July 2017, and is expected to be completed in January 2019. The current worksites, as presented in Appendix A, Figure 1, include:
- Construction of a new entry slip onto the clockwise M25, from Shire Lane to include: associated drainage, utilities, lighting, signage and road markings to full motorway standards.
 - Construction of a new exit slip from the anti-clockwise M25, connecting to Chalfont Lane to include: associated drainage, utilities, lighting, signage and road markings to full motorway standards.
 - Construction of a Chalfont Lane diversion road between Shire Lane and Hornhill Road to include a temporary road to Local Authority Highway standards, a junction with Shire Lane and Hornhill Lane and associated signage on local roads.
 - Construction of a new junction for access to Orchards caravan park and footpath CSP/16/1.
 - Widening of Chalfont Lane between the M25 exit slip and Denham Way to include: a bell mouth access to a future Scottish and Southern Energy (SSE) sub-station, accesses to the future High Speed 2 (HS2) construction compound south of Chalfont Lane and construction of BT and City Fibre ducts and chamber diversions along Chalfont Lane.
- 1.1.5 One (1) dust monitor is installed around the worksite, where construction works are underway. This site was classified with a medium dust risk rating, in accordance with the methodology described in the Overview Monitoring Report, available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, in line with the IAQM Guidance (2014) on the assessment of dust from demolition and construction activities.
- 1.1.6 The dust monitoring location, line graph and results are presented in Appendix B, Table 2.

- 1.1.7 No (0) exceedances of the dust trigger level were recorded during the August 2018 monitoring period. Osborne’s construction works increased in the Chalfont Lane region where the Sunnyhill key receptors are located. Throughout the month, the contractors were able to successfully mitigate dust emissions through the implementation of routine dust suppression measures in a proactive manner. Dust suppression measures consisted of: a designated site water bowser and a reduced vehicle speed limit.
- 1.1.8 No complaints were received for air quality during the monthly monitoring period.
- 1.1.9 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 August 2018 in TRDC

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
AQ-Comp1	C1	A complaint was received from the Hertfordshire County Council on 1st August 2018 relating to dust concerns and appropriate mitigation measures.	Following receipt of the complaint, investigations into the concerns raised were undertaken. A response was provided to Hertfordshire County Council highlighting HS2’s commitment to reducing dust emissions, as set out in the Code of Construction Practise (CoCP).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksite locations during August 2018 in TRDC

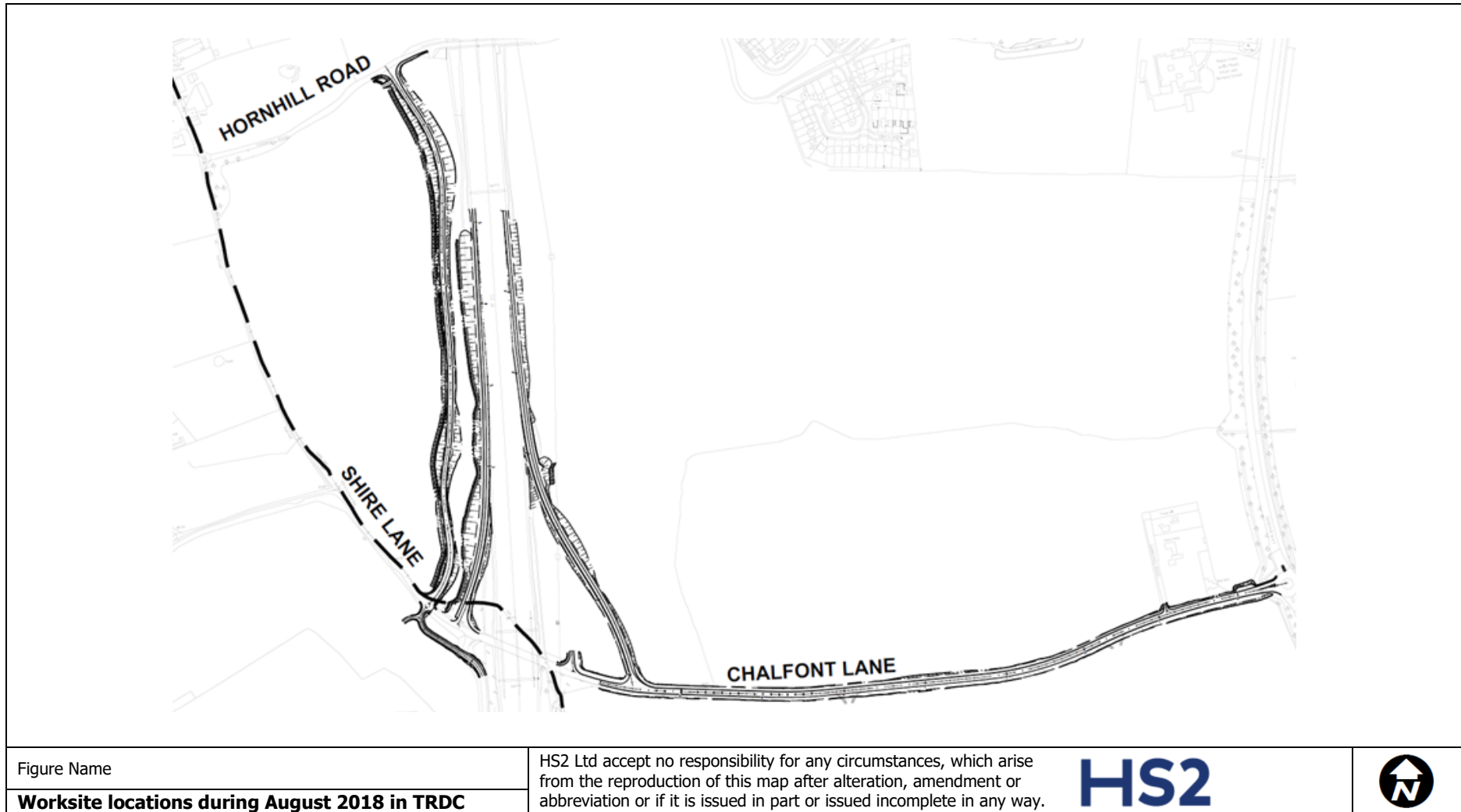


Figure 2: Monitoring locations during August 2018 in TRDC

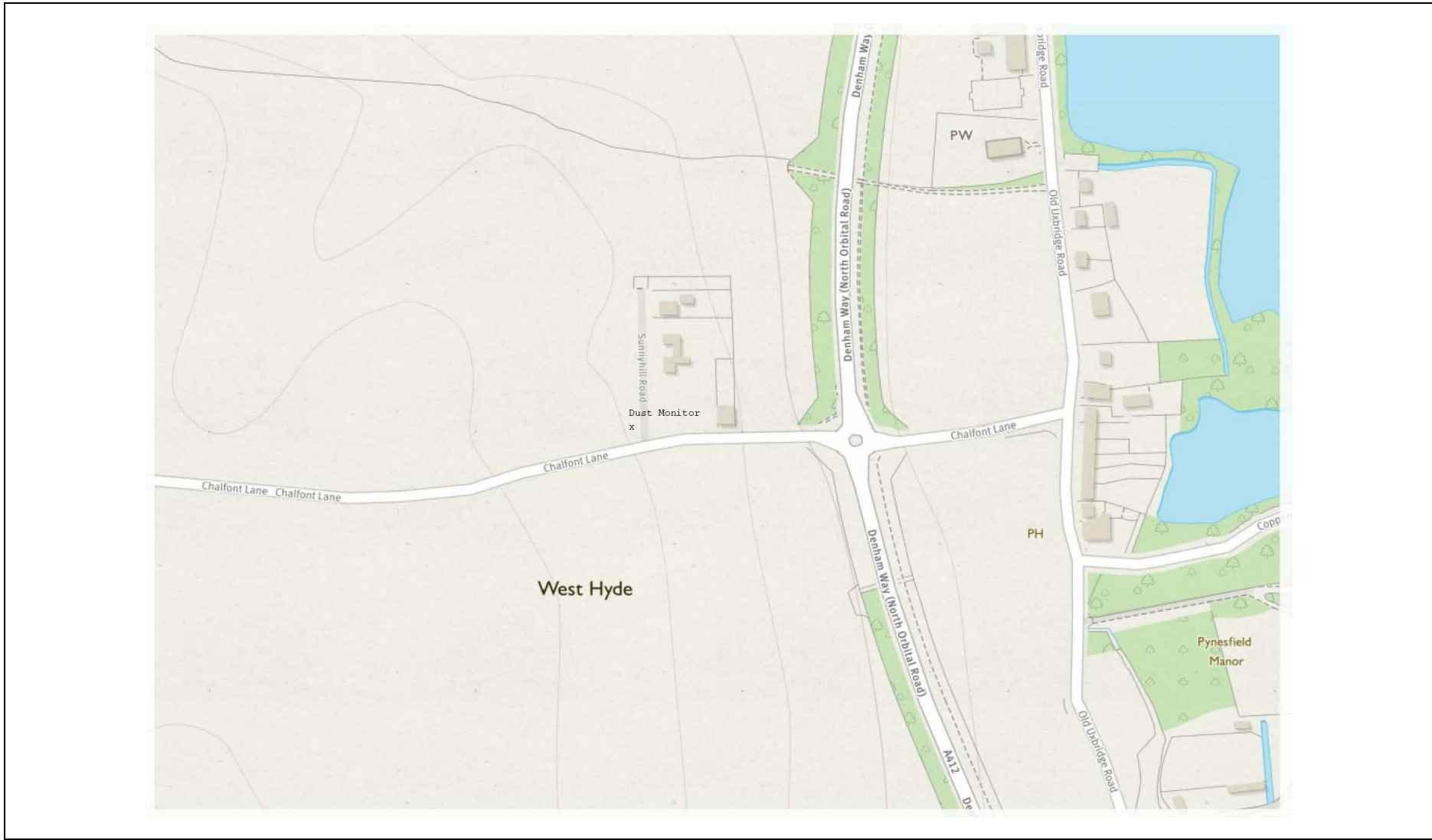



Figure Name	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.	HS2	
Monitoring locations during August 2018 in TRDC			

Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and August 2018 Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site ¹	Monitoring site active during period	Change to site since previous period report	Mean 15-minute PM10 concentration (µg/m ³)	Minimum 15-minute PM10 concentration (µg/m ³)	Maximum 15-minute PM10 concentration (µg/m ³)	Number of 15-min periods exceeding trigger level of 250 µg/m ³	15-min data capture (%)
M25 Slip Roads	51.613059, -0.515667	Chalfont Lane	M	Yes	No	6.23	0.1	232.5	0	100.0

¹ The dust risk rating (H – High, M – Medium, L – Low) has been assigned in accordance with the methodology described in the Overview Monitoring Report, available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, in line with the IAQM Guidance (2014) on the assessment of dust from demolition and construction activities.

Figure 3: Construction dust 15-minute mean indicative PM₁₀ concentration for dust monitors

