

Air Quality and Dust Monitoring Monthly Report – December 2021

Stafford Borough Council (SBC), Newcastle-
under-Lyme Borough Council (NBC) and
Cheshire East Council (CEC)



Department for Transport

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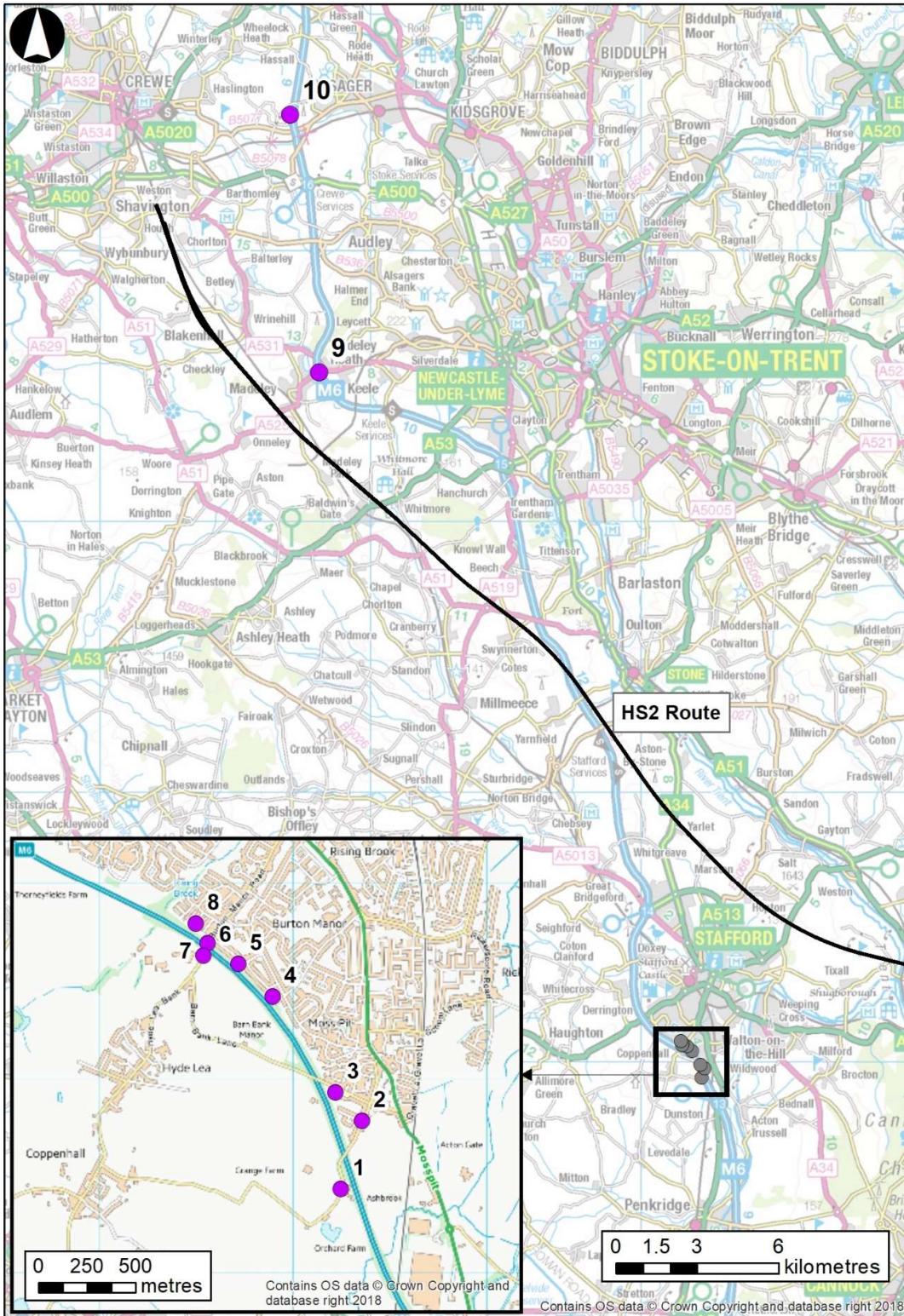
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Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (West Midlands to Crewe) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality monitoring undertaken in Stafford Borough Council (SBC), Newcastle-under-Lyme Borough Council (NBC) and Cheshire East Council (CEC) during November 2021.
- 1.1.2 Figure 1 in Appendix A indicates the current air quality monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights the applicable standards and guidance, as well as monitoring methodology, to be followed by the nominated undertaker in undertaking the required air quality and dust monitoring.
- 1.1.4 There are no current worksites located within this area. Therefore, no dust monitoring has been carried out.
- 1.1.5 Diffusion tube monitoring of Nitrogen dioxide (NO₂) was undertaken at ten (10) locations in November 2021, around highways within SBC, NBC and CEC as part of the management of air quality where significant effects may occur as a result the scheme.
- 1.1.6 Diffusion tube monitoring results are as provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.
- 1.1.7 NO₂ monitoring locations and results are presented in Appendix B, Table 1 alongside the running average for 2021.
- 1.1.8 There were no (0) complaints received, relating to air quality, during this monitoring period (December 2021).

Appendix A – Monitoring Locations

Figure 1: Current monitoring locations within SBC, NBC and CEC



Appendix B – Air Quality Monitoring Results

Table 1: NO₂ concentrations and monthly monitoring results for January to November 2021 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Running average
1	Ashflats Lane	392247, 319432	18	16	10	14	10	10	9	9	12	7	10		11
2	Ash Rise	392355, 319784	21	18	17	16	14	12	13	11	17	14	19		16
3	Barn Bank Lane	392217, 319929	29	23	26	20	23	19	21	19	25	26	30		24
4	Southfields Close	391894, 320423	30	26	24	20	22	18	20	21	27	27	31		24
5	Devon Way	391717, 320592	30	24	24	18	21	16	19	19	N/A	25	28		22
6	Burton Manor Road E	391559, 320699	24	20	16	16	17	14	15	16	20	20	21		18
7	Burton Manor Road W	391539, 320634	23	21	N/A	23	17	16	17	16	21	13	20		19
8	Crinan Grove	391498, 320799	25	22	19	16	17	14	15	16	21	21	24		19
9	Newcastle Road	378110, 345523	32	24	27	22	24	19	21	20	22	23	29		24
10	Nursery Road	377035, 355030	20	22	13	17	14	13	12	13	17	12	13		15

Note: N/A denotes diffusion tubes missing