

Air Quality and Dust Monitoring Monthly Report – January 2023

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



Department for Transport

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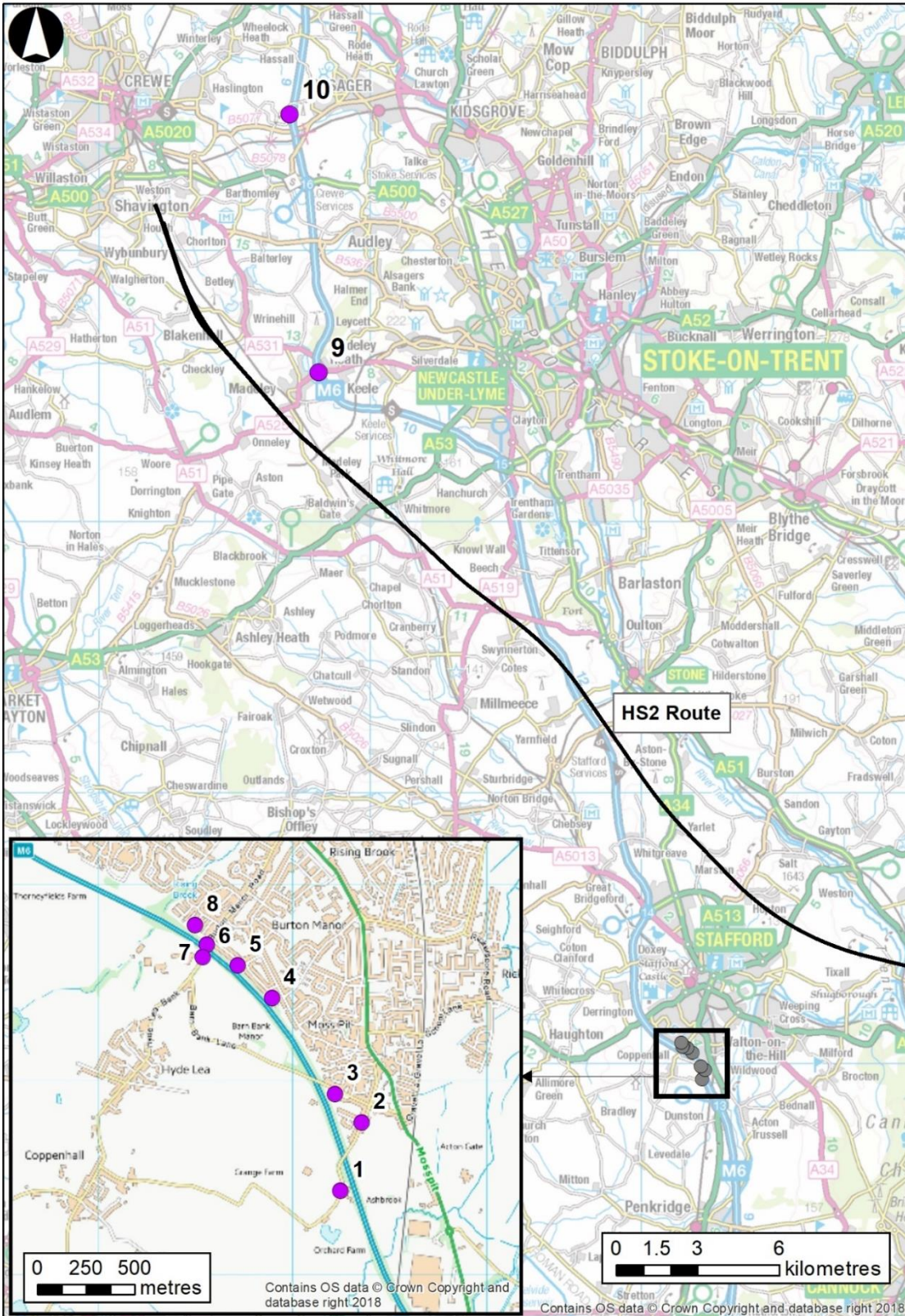
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Monthly Summary

- 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 December 2022.
- 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 undertakers 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 December 2022, around highways within SBC, NBC and CEC as part of the management of air quality where significant effects may occur as a result of 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 2022.
- 1.1.8 There were no (0) complaints received during this monitoring period (December 2022).

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 December 2022 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Running average ⁱ
1	Ashflats Lane	392247, 319432	14	6	21	12	6	5	7	12	12	10	13	18	11
2	Ash Rise	392355, 319784	23	12	20	13	11	12	13	13	16	15	19	21	16
3	Barn Bank Lane	392217, 319929	36	24	26	20	19	21	22	20	23	25	26	29	24
4	Southfields Close	391894, 320423	32	25	30	22	19	20	21	20	25	28	33	32	26
5	Devon Way	391717, 320592	33	23	28	19	17	20	19	18	24	26	33	31	24
6	Burton Manor Road E	391559, 320699	27	17	26	- ⁱⁱ	15	17	- ⁱⁱ	17	22	23	24	24	21
7	Burton Manor Road W	391539, 320634	23	12	29	19	13	10	14	20	16	16	20	23	18
8	Crinan Grove	391498, 320799	27	18	25	17	15	15	15	16	20	23	27	26	20
9	Newcastle Road	378110, 345523	35	26	30	22	18	18	21	21	22	22	27	28	24
10	Nursery Road	377035, 355030	17	9	26	17	10	9	11	14	16	15	20	23	16

ⁱ Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual average presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.

ⁱⁱ Diffusion tubes were missing from site.