

Air Quality and Dust Monitoring Monthly Report – March 2021

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



Department for Transport

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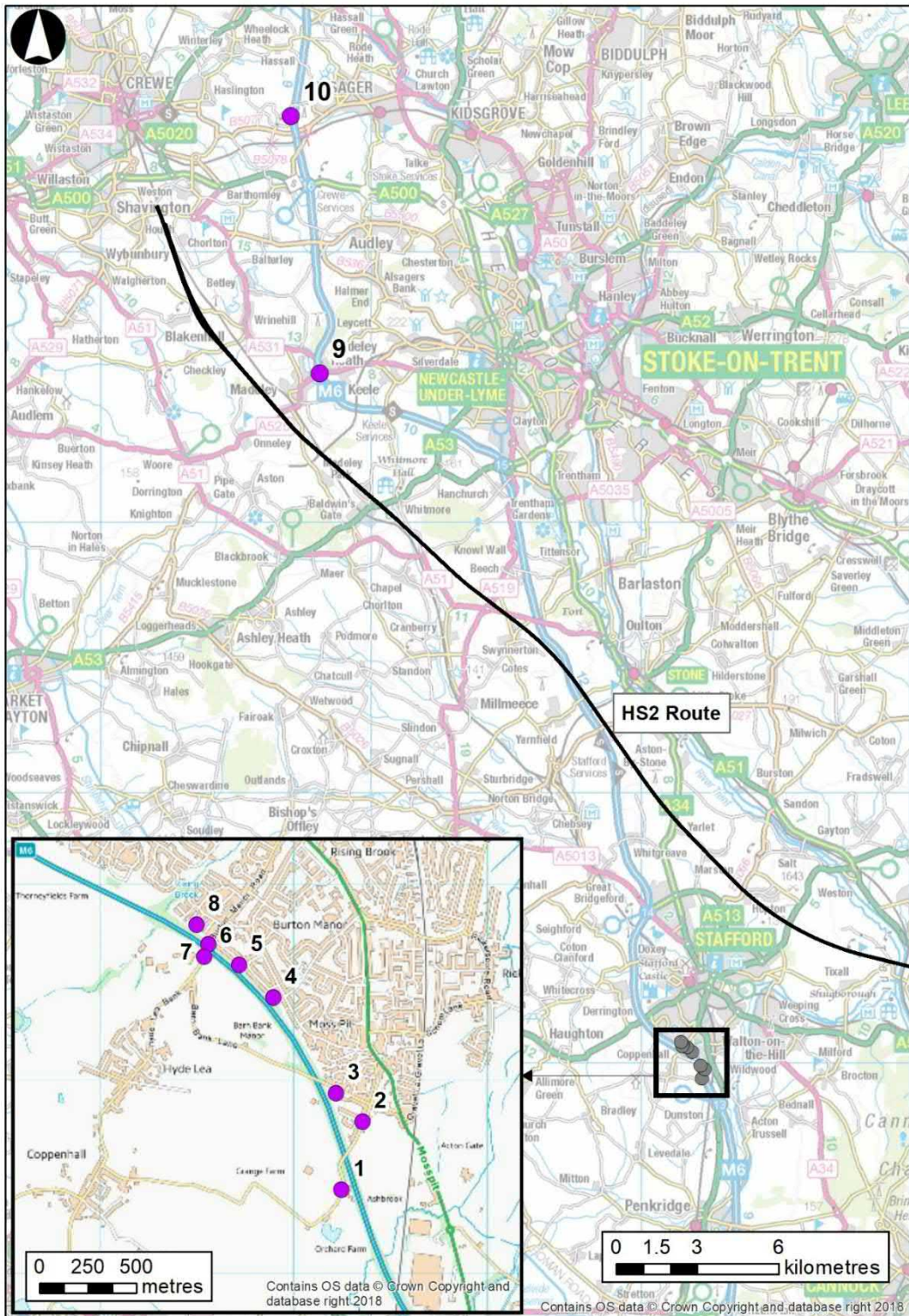
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Monthly Summary

- 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 February 2021.
- 1.1.2 Figure 1 in Appendix A indicates the current air quality monitoring locations within SBC, NBC and CEC for March 2021.
- 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 There are no construction works being undertaken across Phase 2a. Current works include ground investigations; survey works and utility works. Therefore, no dust monitoring is being undertaken.
- 1.1.5 Diffusion tube monitoring of Nitrogen dioxide (NO₂) was undertaken at ten (10) locations in March 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, together with the 2021 running mean.
- 1.1.8 There were no (0) complaints received, relating to air quality, during this reporting period (March 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 with running mean for 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											16.9
2	Ash Rise	392355, 319784	21	18											19.5
3	Barn Bank Lane	392217, 319929	29	23											26.0
4	Southfields Close	391894, 320423	30	26											28.0
5	Devon Way	391717, 320592	30	24											27.2
6	Burton Manor Road E	391559, 320699	24	20											22.0
7	Burton Manor Road W	391539, 320634	23	21											21.9
8	Crinan Grove	391498, 320799	25	22											23.4
9	Newcastle Road	378110, 345523	32	24											28.0
10	Nursery Road	377035, 355030	20	22											20.9