

High Speed Rail (Crewe – Manchester)

Background information and data

Air quality

BID AQ-002-OR001

Off-route works: Preston Station

Additional data used in the air quality
assessment

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Department for Transport

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1 Introduction

1.1.1 This report presents additional data used in the air quality assessment for the Proposed Scheme off-route works at Preston Station and comprises:

- relevant policies and guidance; and
- baseline air quality data.

1.1.2 This report should be read in conjunction with Volume 4, Off-route effects and Volume 5, Appendices¹.

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

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2 Relevant policies and guidance

2.1.1 The Preston Station area lies within the administrative area of Preston City Council (PCC).

2.2 Preston City Council

2.2.1 The Preston Local Plan² details how Preston will attract investors and improve retail, heritage, education and the city centre.

2.2.2 PCC, South Ribble Borough Council and Chorley Council published a joint Core Strategy in 2012³, outlining development policies across Central Lancashire. Policy 18 (Green Infrastructure) states that environmental resources will be managed and improved through green infrastructure. The Policy further states that the natural environment will be protected and enhanced where it '...provides economic, social and environmental benefits', and that mitigation will be secured where development would be detrimental to the green infrastructure network.

2.2.3 Policy 30 (Air Quality) aims to improve air quality through the reduction of road traffic congestion and introduction of green infrastructure initiatives.

² Preston City Council (2015), *Preston Local Plan 2012-2026, Site Allocations & Development Management Policies*. Available online at: [https://www.preston.gov.uk/media/1952/Preston-s-Local-Plan/pdf/Preston-Local-Plan-2012-2026- \(8\).pdf](https://www.preston.gov.uk/media/1952/Preston-s-Local-Plan/pdf/Preston-Local-Plan-2012-2026- (8).pdf).

³ Preston City Council, South Ribble Borough Council and Chorley Council (2012), *Central Lancashire Adopted Core Strategy, Local Development Framework*. Available online at: <https://www.preston.gov.uk/article/1194/Central-Lancashire-Core-Strategy>.

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3 Baseline air quality data

3.1 Local air quality monitoring data

3.1.1 Table 1 and Table 2 present monitoring data from the continuous monitors and diffusion tube sites within the Preston Station area. No exceedances of the hourly mean NO₂ standard were recorded at the continuous monitoring sites and no PM₁₀ monitoring is undertaken in this area.

Table 1: Annual mean pollutant concentrations recorded at continuous monitoring sites

Pollutant ⁴	Annual mean concentrations (µg/m ³)				
	2014	2015	2016	2017	2018
Meadow Street (354138, 429863)					
NO ₂	27.0	27.0	27.0	26.0	23.9
Bootle Street (355250, 430126)					
NO ₂	27.0	22.0	24.0	20.2	21.1
PM _{2.5}	12.0	10.0	10.0	8.6	9.3

Table 2: Annual mean NO₂ concentrations recorded at diffusion tube monitoring sites

Site	Ordnance Survey coordinates	Annual mean NO ₂ concentrations (µg/m ³)				
		2014	2015	2016	2017	2018
Red Rose Radio, (St Paul's Square)	354307, 429769	38.0	37.0	37.0	35.0	35.1
Meadow Street (co-location)	354138, 429864	27.0	26.7	27.3	25.3	24.6
7 New Hall Lane	354841, 429594	47.0	44.0	46.0	44.0	44.2
23 New Hall Lane	354880, 429594	40.0	39.0	44.0	35.0	37.0
149 London Road	355070, 429198	38.0	38.0	35.0	39.0	35.0
181 London Road	355124, 429106	37.0	36.0	37.0	35.0	35.2
119 London Road	355015, 429282	40.0	41.0	41.0	36.0	37.4
24 Grosvenor Street	354849, 429437	25.0	23.0	24.0	21.0	23.7
7 Moore Street	355038, 429207	30.0	26.0	29.0	26.0	28.6

⁴ Preston City Council (2019), *2019 Air Quality Annual Status Report (ASR)*. Available online at: <https://www.preston.gov.uk/article/1015/Air-quality>.

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3.2 Industrial emission sources

- 3.2.1 There are no industrial installations (regulated by the Environment Agency) with permits for emissions to air in this area.

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4 References

High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement*.

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Preston City Council, South Ribble Borough Council and Chorley Council (2012), *Central Lancashire Adopted Core Strategy, Local Development Framework*. Available online at:

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