

High Speed Rail (Crewe – Manchester) Environmental Statement

Volume 5: Appendix AQ-001-0MA07

Air quality

MA07: Davenport Green to Ardwick

Air quality report

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Air quality report



Department
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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1 Introduction

- 1.1.1 The report is an appendix to the air quality assessment for the Proposed Scheme in relation to the Davenport Green to Ardwick area (MA07).
- 1.1.2 This appendix comprises:
- baseline air quality data;
 - construction dust assessment; and
 - assessment of road traffic emissions.
- 1.1.3 Maps referred to throughout this appendix are contained in the Volume 5, Air quality Map Book: map AQ-01-307.
- 1.1.4 Additional data used for the air quality assessment, including traffic data, are set out in Background Information and Data (BID) (BID AQ-002-0MA07)¹.
- 1.1.5 The assessment scope, key assumptions and limitations, and the methodology for determining significance of effects for air quality are set out in Volume 1, Introduction and Methodology, Section 9 and the Environmental Impact Assessment Scope and Methodology Report (SMR) (see Volume 5: Appendix CT-001-00001).
- 1.1.6 The air quality standards relevant to this assessment are:
- 40µg/m³ as an annual mean for nitrogen dioxide (NO₂) and fine particulate matter (PM₁₀);
 - 200µg/m³ one-hour mean for NO₂ not to be exceeded more than 18 times a year (equivalent to the 99.8th percentile of the one-hour mean);
 - 50µg/m³ 24-hour mean for PM₁₀ not to be exceeded more than 35 times a year (equivalent to the 90.4th percentile of the 24-hour mean); and
 - 25µg/m³ as an annual mean for fine particulate matter (PM_{2.5}).

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background Information and Data, Additional data used in the air quality assessment*, BID AQ-002-0MA07. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

2 Baseline air quality data

2.1 Existing air quality

Local authority review and assessment information

- 2.1.1 Manchester City Council (MCC) covers most of the Davenport Green to Ardwick area, with Trafford Metropolitan Borough Council (TMBC), Oldham Metropolitan Borough Council (OMBC), Tameside Metropolitan Borough Council (TaMBC) and Stockport Metropolitan Borough Council (SMBC) lying at the edges of the area. All councils review air quality throughout the area following the local air quality management (LAQM) regime from the Department for Environment, Food and Rural Affairs (Defra)².
- 2.1.2 There is one air quality management area (AQMA) within the Davenport Green to Ardwick area (the Greater Manchester Combined Authority AQMA) which is designated for exceedances of the annual mean NO₂ standard. The Greater Manchester Combined Authority AQMA encompasses the entirety of Manchester City Centre, along with other areas in 10 districts of Greater Manchester, including arterial routes, district centres and the airport. The AQMA was declared in May 2016, combining the existing AQMA of all 10 Greater Manchester local authorities. The Proposed Scheme crosses the Greater Manchester Combined Authority AQMA on arterial and circular road traffic routes in Greater Manchester.

Local air quality monitoring data

- 2.1.3 Monitoring sites within the study area that are relevant for this assessment are shown in the accompanying map AQ-01-307. The following sections provide a summary of the recorded pollutant concentrations at these sites. Further details on monitoring data are presented in BID (BID AQ-002-0MA07)¹.

Continuous monitoring

- 2.1.4 There are two continuous air quality monitoring sites within the Davenport Green to Ardwick area. These are located near the B5166 Styal Road (the 'Manchester Sharston' site, monitoring NO₂ and PM_{2.5}) and adjacent to the A34 Kingsway (the 'Stockport Cheadle' site monitoring NO₂ and PM₁₀).
- 2.1.5 Measurements of annual mean NO₂ concentrations were within the air quality standard at both sites in 2018. Annual mean PM₁₀ and PM_{2.5} concentrations were within the air quality

² Department for Environment, Food and Rural Affairs (Defra) (2020), *Defra Background Pollutant Concentration Maps*. Available online at: <https://uk-air.defra.gov.uk/data/laqm-background-maps?year=2018>.

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standards at the Stockport Cheadle and Manchester Sharston monitoring sites respectively during 2018.

Diffusion tubes

- 2.1.6 The local authorities in this area undertake air quality monitoring with the use of passive diffusion tubes as part of their LAQM process. There are 38 diffusion tube sites within the Davenport Green to Ardwick area.
- 2.1.7 HS2 Ltd has undertaken additional monitoring for the purpose of validating the air quality assessment at five locations in this area.
- 2.1.8 Measurements of NO₂ were above the air quality standard at nine diffusion tube locations in 2018, mostly adjacent to roads within the Greater Manchester Combined Authority AQMA. At the remaining locations, annual mean NO₂ concentrations were within the air quality standard in 2018.

Background pollutant concentrations

- 2.1.9 Estimates of background air quality were obtained from the Defra maps². Background pollutant concentrations are within the air quality standards throughout the study area. Table 1 presents the range of background pollutant concentrations within the Davenport Green to Ardwick area for the existing and future baseline.
- 2.1.10 Background pollutant concentrations for the operational year of 2038 have been taken from the Defra background maps for 2030, which is the latest available year of data. The 2030 background maps have been used as representative of the future baseline conditions during operation of the Proposed Scheme.

Table 1: Range of background pollutant concentrations

Pollutant	Background concentrations (µg/m ³)		
	2018	2025	2038
Annual mean NO _x	17.7µg/m ³ to 42.3µg/m ³	13.8µg/m ³ to 35.6µg/m ³	12.6µg/m ³ to 33.2µg/m ³
Annual mean NO ₂	13.1µg/m ³ to 27.9µg/m ³	10.4µg/m ³ to 23.1µg/m ³	9.6µg/m ³ to 21.8µg/m ³
Annual mean PM ₁₀	9.9µg/m ³ to 14.8µg/m ³	9.0µg/m ³ to 13.7µg/m ³	8.9µg/m ³ to 13.7µg/m ³
Annual mean PM _{2.5}	6.8µg/m ³ to 9.8µg/m ³	6.1µg/m ³ to 9.0µg/m ³	6.0µg/m ³ to 9.0µg/m ³

3 Construction dust assessment

3.1.1 This section provides details of the assessment of dust emissions during construction of the Proposed Scheme. Due to the linear nature of the Proposed Scheme and its associated dust generating activities, the construction dust assessment has been undertaken in detail for distinct assessment areas in the Davenport Green to Ardwick area.

3.2 Dust soiling and human health effects

Assessed receptors and sensitivity of the area

3.2.1 The assessment of dust soiling and human health effects has been undertaken for the following areas from south to north:

- area around Davenport Green: residential dwellings are located within 100m of demolition activities, and within 20m of earthworks, construction and trackout³ activities;
- area around West Didsbury: residential dwellings are located within 20m of demolition, earthworks, construction and trackout activities;
- area around Withington: residential dwellings are located within 20m of demolition, earthworks, construction and trackout activities;
- area around Ardwick: residential dwellings are located within 20m of demolition, earthworks, construction and trackout activities; and
- area around West Gorton: residential dwellings are located within 20m of demolition, earthworks, construction and trackout activities.

3.2.2 Table 2 presents the sensitivity of each area to dust soiling and human health effects.

Table 2: Sensitivity of area to dust soiling and human health effects

Effect	Demolition	Earthworks	Construction	Trackout
Area around Davenport Green				
Dust soiling	Not applicable	High	High	High
Human health	Not applicable	Medium	Medium	Medium
Area around West Didsbury				
Dust soiling	High	High	High	High
Human health	Medium	Medium	Medium	Medium
Area around Withington				
Dust soiling	High	High	High	High
Human health	Medium	Medium	Medium	Medium
Area around Ardwick				

³ Trackout refers to the transport of dust and dirt from the construction site(s) onto the public road network, where it may be deposited and then re-suspended by vehicles using the network.

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Effect	Demolition	Earthworks	Construction	Trackout
Dust soiling	High	High	High	High
Human health	Medium	Medium	Medium	Medium
Area around West Gorton				
Dust soiling	High	High	High	High
Human health	Medium	Medium	Medium	Medium

Dust emission magnitude

3.2.3 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 3.

Table 3: Dust emission magnitude for dust soiling and human health

Area	Demolition	Earthworks	Construction	Trackout
Area around Davenport Green	Not applicable	Large	Large	Medium
Area around West Didsbury	Medium	Medium	Medium	Large
Area around Withington	Small	Medium	Medium	Medium
Area around Ardwick	Medium	Medium	Medium	Medium
Area around West Gorton	Large	Large	Large	Large

Risk of impacts

3.2.4 Taking into consideration the dust emission magnitude of each activity and the sensitivity of each area, the risk of dust effects has been defined for each area as shown in Table 4.

Table 4: Risk of dust soiling and human health effects

Effect	Demolition	Earthworks	Construction	Trackout
Area around Davenport Green				
Dust soiling	Not applicable	High risk	High risk	Medium risk
Human health	Not applicable	Medium risk	Medium risk	Low risk
Area around West Didsbury				
Dust soiling	Medium risk	Medium risk	Medium risk	High risk
Human health	Medium risk	Medium risk	Medium risk	Medium risk
Area around Withington				
Dust soiling	Medium risk	Medium risk	Medium risk	Medium risk
Human health	Low risk	Medium risk	Medium risk	Low risk
Area around Ardwick				
Dust soiling	Medium risk	Medium risk	Medium risk	Medium risk
Human health	Medium risk	Medium risk	Medium risk	Low risk
Area around West Gorton				
Dust soiling	High risk	High risk	High risk	High risk
Human health	High risk	Medium risk	Medium risk	Medium risk

3.3 Ecological effects

Assessed receptors and sensitivity of the area

3.3.1 The assessment of ecological effects has been undertaken for the following areas from south to north:

- Wythenshawe Park Local Nature Reserve (LNR): there are no demolition, earthworks or construction activities in this area. This ecological receptor is located within 20m of trackout activities;
- Black Field Wood ancient woodland (AW) and Site of Biological Importance (SBI): there are no demolition, earthworks or construction activities in this area. This ecological receptor is within 50m of trackout activities; and
- Wrengate Wood SBI and Heyscroft AW: there are no demolition or trackout activities in this area. This ecological receptor is located within 20m of earthworks and construction activities.

3.3.2 Table 5 presents the sensitivity of each area to ecological effects.

Table 5: Sensitivity of area to ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Wythenshawe Park (LNR)	Not applicable	Not applicable	Not applicable	Low
Black Field Wood (AW/SBI)	Not applicable	Not applicable	Not applicable	Low
Wrengate Wood SBI and Heyscroft (AW)	Not applicable	Low	Low	Not applicable

Dust emission magnitude

3.3.3 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 6.

Table 6: Dust emission magnitude for ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Wythenshawe Park (LNR)	Not applicable	Not applicable	Not applicable	Medium
Black Field Wood (AW/SBI)	Not applicable	Not applicable	Not applicable	Medium
Wrengate Wood SBI and Heyscroft (AW)	Not applicable	Medium	Medium	Not applicable

Risk of impacts

3.3.4 Taking into consideration the dust emission magnitude of each activity and the sensitivity of each area, the risk of dust effects has been defined for each area as shown in Table 7.

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Table 7: Risk of ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Wythenshawe Park (LNR)	Not applicable	Not applicable	Not applicable	Low risk
Black Field Wood (AW/SBI)	Not applicable	Not applicable	Not applicable	Low risk
Wrengate Wood SBI and Heyscroft (AW)	Not applicable	Low risk	Low risk	Not applicable

3.4 Summary of risks

3.4.1 The summary of risks identified within the Davenport Green to Ardwick area is shown in Table 8. As there are several construction locations in this area, a range of risks is shown which depend on the location of sensitive receptors and the magnitude of dust generating activities.

Table 8: Summary of risks for construction dust assessment

Activity	Dust soiling	Human health	Ecological effects
Demolition	Medium to high	Low to high	Not applicable
Earthworks	Medium to high	Medium	Low
Construction	Medium to high	Medium	Low
Trackout	Medium to high	Low to medium	Low

4 Assessment of road traffic emissions

4.1 Overall assessment approach

4.1.1 The air quality assessment for road traffic emissions has used the approach described in the SMR (see Volume 5: Appendix CT-001-00001). Pollutant concentrations have been predicted at sensitive human and ecological receptors where these are located within 200m of the affected road network. Where ecological sites have been assessed, the change in nitrogen (N) deposition has been predicted for comparison against the lower critical load for the site.

4.2 Model inputs and verification

Model parameters

4.2.1 The ADMS-Roads model was used to predict pollutant concentrations from changes in road traffic emissions. A surface roughness of 0.5m was used for this area and a surface roughness of 0.2m was used for the meteorological site. A minimum Monin-Obukhov length of 30m and latitude of 53 degrees were used in the assessment. Meteorological data from the Manchester Airport site were used for the year 2018.

Model verification

- 4.2.2 Verification was undertaken for the year 2018 comparing monitored and modelled NO₂ concentrations. The traffic data provided was assumed to be representative of 2018. The results of this comparison are shown in Table 9.
- 4.2.3 Model verification was undertaken where monitoring sites are located adjacent to the modelled road network. The objectives of the model verification are to evaluate model performance and to determine if model adjustment is required.
- 4.2.4 Some of the monitoring locations were not considered suitable for model verification, due to missing traffic and other spatial considerations. A total of 20 monitoring sites were included in the model verification exercise.

Table 9: Comparison of monitored and modelled NO₂ concentrations

Site	Monitored concentration (µg/m ³)	Modelled concentration (µg/m ³)	Difference [(modelled – monitored) / monitored]
MA06.2	28.7	20.9	-27.2%
MA06.4	31.3	32.8	4.8%
MA06.5	32.0	35.2	10.0%
MA06.6	37.7	30.5	-19.1%
SK12	38.0	36.2	-4.7%
STK7	37.0	36.1	-2.4%

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Site	Monitored concentration (µg/m ³)	Modelled concentration (µg/m ³)	Difference [(modelled - monitored) / monitored]
(89a 89b)	30.6	28.2	-7.8%
(86a 86b)	32.0	26.0	-18.8%
MA07.1	45.7	35.2	-23.0%
MA07.3	30.2	22.9	-24.2%
MA08.4	41.3	31.6	-23.5%
TM13	41.8	40.5	-3.1%
TM24	32.1	22.9	-28.7%
TM56	42.8	35.4	-17.3%
SK20	41.9	40.9	-2.4%
M-36	33.1	26.8	-19.0%
SA62	31.4	30.4	-3.2%
SA26	33.9	28.4	-16.2%
SA44	35.3	37.4	5.9%
SA59	33.3	27.2	-18.3%

4.2.5 The majority of modelled NO₂ concentrations were within ±25% of the monitored concentrations, but there was systematic under prediction and therefore modelled concentrations were adjusted. A factor of 1.4 has been applied to modelled NO_x concentrations; the final adjusted modelled NO₂ concentrations are presented within Table 10. Modelled concentrations of PM₁₀ and PM_{2.5} have not been adjusted.

Table 10: Comparison of monitored and adjusted modelled NO₂ concentrations

Site	Monitored concentration (µg/m ³)	Modelled adjusted concentration (µg/m ³)	Difference [(modelled - monitored) / monitored]
MA06.2	28.7	23.4	-18.5%
MA06.4	31.3	35.2	12.5%
MA06.5	32.0	37.6	17.5%
MA06.6	37.7	32.8	-13.0%
SK12	38.0	41.3	8.7%
STK7	37.0	41.1	11.1%
(89a 89b)	30.6	31.0	1.3%
(86a 86b)	32.0	28.2	-11.9%
MA07.1	45.7	39.1	-14.4%
MA07.3	30.2	24.1	-20.2%
MA08.4	41.3	35.4	-14.3%
TM13	41.8	45.3	8.4%
TM24	32.1	24.6	-23.4%
TM56	42.8	38.6	-9.8%
SK20	41.9	45.2	7.9%
M-36	33.1	28.5	-13.9%

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Site	Monitored concentration ($\mu\text{g}/\text{m}^3$)	Modelled adjusted concentration ($\mu\text{g}/\text{m}^3$)	Difference [(modelled - monitored) / monitored]
SA62	31.4	33.2	5.7%
SA26	33.9	30.7	-9.4%
SA44	35.3	41.9	18.7%
SA59	33.3	29.1	-12.6%

4.3 Assessment of construction traffic emissions

- 4.3.1 The assessment of construction traffic emissions has used traffic data based on an estimate of the average daily flows in the peak year during the construction period (2025 – 2037). However, vehicle emissions and background concentrations have been taken for the first construction year in 2025. Three construction scenarios have been assessed to capture peak construction traffic activity at different times in the construction period. It has been assumed that the changes in construction traffic will occur for the whole year. In some cases, this is a conservative approach, as the duration of the peak traffic flows may well be much shorter. These scenarios have been assessed against the relevant future baseline case without the Proposed Scheme.
- 4.3.2 Traffic data in the study area have been screened to identify roads that require further assessment and to confirm the likely effect of the change in emissions from vehicles using these roads during construction of the Proposed Scheme. The screening criteria are detailed in the SMR (see Volume 5: Appendix CT-001-00001) and are largely based on the Design Manual for Roads and Bridges (DMRB) thresholds for changes in annual average daily traffic (AADT), changes in daily heavy duty vehicles (HDV) flows, changes to daily average or peak vehicle speeds and/or changes in road alignment by 5m or more.
- 4.3.3 Traffic data for construction vehicles using the site haul routes and moving between compounds has also been included in the assessment. Further roads have been included in the assessment to account for their emissions at nearby receptors.

Receptors assessed and background concentrations

- 4.3.4 Sensitive receptors have been selected from the OS AddressBase Premium database. The receptors consist of residential properties, schools and care homes within 200m of the screened in roads and represent worst-case exposure locations. The location of all receptors is shown in accompanying map AQ-01-307.
- 4.3.5 Two designated ecological receptors were identified within 200m of the screened in roads within the Davenport Green to Ardwick area during construction of the Proposed Scheme. These ecological receptors are the Hollinwood Branch Canal Site of Special Scientific Interest (SSSI) and Rochdale Canal SSSI and Special Area of Conservation (SAC).

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4.3.6 Details of the assessed receptors and the background concentrations used in the assessment are shown in Table 11 for human and Table 12 for ecological receptors.

Table 11: Modelled receptors and background concentrations (construction phase)

Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 ($\mu\text{g}/\text{m}^3$)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H001	Handforth, Wilmslow	385503, 384354	14.0	10.6	9.4	6.4
7-C-H002	Longsight Lane, Cheadle Hulme	386874, 384432	14.0	10.6	9.9	6.6
7-C-H003	Little Acorns Day Nursery, Handforth	385477, 384461	14.0	10.6	9.4	6.4
7-C-H004	Stanley Road, Cheadle	386144, 384583	14.0	10.6	9.9	6.6
7-C-H005	Stanley Road, Cheadle Hulme	386900, 384686	14.0	10.6	9.9	6.6
7-C-H006	St James Catholic High School Building, Cheadle Hulme, Cheadle	386836, 384848	14.0	10.6	9.9	6.6
7-C-H007	Regency Gardens, Cheadle Hulme	386204, 385537	16.3	12.2	10.2	6.8
7-C-H008	Thorley Lane, Manchester	381457, 386051	21.6	15.5	12.6	8.1
7-C-H009	Heald Green, Cheadle	385990, 386286	17.5	13.0	10.0	6.8
7-C-H010	Rowarth Road, Manchester	381222, 386799	21.6	15.5	12.6	8.1
7-C-H011	Hurst Walk, Manchester	381483, 386937	21.6	15.5	12.6	8.1
7-C-H012	Newall Road, Wythenshawe	380731, 387196	18.6	13.7	10.6	7.1
7-C-H013	Kids Allowed Nursery, Cheadle Royal Business Park, Cheadle	385358, 387234	16.8	12.5	10.5	7.0
7-C-H014	Newall Road, Manchester	380803, 387300	18.6	13.7	10.6	7.1
7-C-H015	Peterswood Close, Manchester	381692, 387328	18.6	13.7	12.8	8.3
7-C-H016	Barnacle Avenue, Manchester	380835, 387368	18.6	13.7	10.6	7.1
7-C-H017	Newall Green High School, Wythenshawe	380817, 387445	18.6	13.7	10.6	7.1
7-C-H018	Kingsway, Cheadle	385295, 387502	16.8	12.5	10.5	7.0
7-C-H019	Piper Hill High School, Firbank Road	381624, 387590	18.6	13.7	12.8	8.3
7-C-H020	Shawbury Road, Manchester	381698, 387644	18.6	13.7	12.8	8.3
7-C-H021	Kingsway School, Foxley Road, Gatley	385112, 387783	16.8	12.5	10.5	7.0
7-C-H022	Wythenshawe Hospital, Southmoor Road, Manchester	380491, 387858	18.6	13.7	10.6	7.1
7-C-H023	Wythenshawe Hospital, Southmoor Road, Manchester	380405, 388125	19.4	14.2	10.8	7.3
7-C-H024	Kingsway, Cheadle	385013, 388345	21.3	15.5	11.2	7.5
7-C-H025	Fouracres Road, Manchester	380964, 388354	19.4	14.2	10.8	7.3
7-C-H026	Kingsway, Cheadle	385049, 388390	21.3	15.5	11.2	7.5

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 ($\mu\text{g}/\text{m}^3$)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H027	Banbury Road, Manchester	380925, 388400	19.4	14.2	10.8	7.3
7-C-H028	Greenwood Road, Wythenshawe	382092, 388429	18.4	13.6	13.1	8.5
7-C-H029	Kingsway, Cheadle	385013, 388455	21.3	15.5	11.2	7.5
7-C-H030	Benchill Primary School, Benchill Road, Wythenshawe	382224, 388608	18.4	13.6	13.1	8.5
7-C-H031	Marchbank Drive, Cheadle	385093, 388734	21.3	15.5	11.2	7.5
7-C-H032	Partridge Avenue, Wythenshawe	382100, 388750	18.4	13.6	13.1	8.5
7-C-H033	Calderbeck Way, Manchester	383344, 388757	21.0	15.2	12.6	8.2
7-C-H034	Floatshall Road, Manchester	380713, 388794	19.4	14.2	10.8	7.3
7-C-H035	Lauriston Close, Manchester	383027, 388816	21.0	15.2	12.6	8.2
7-C-H036	Lorna Grove, Gatley, Cheadle	383813, 388865	21.0	15.2	12.6	8.2
7-C-H037	Crossgate Avenue, Manchester	382663, 388957	18.4	13.6	13.1	8.5
7-C-H038	Pendelbury Road, Gatley	384550, 389002	24.7	17.6	12.5	8.1
7-C-H039	Booth Square, Cheadle	385337, 389021	27.1	19.2	12.8	8.4
7-C-H040	Hearthstone Close, Cheadle	385422, 389029	27.1	19.2	12.8	8.4
7-C-H041	Pendlebury Road, Gatley	384647, 389225	24.7	17.6	12.5	8.1
7-C-H042	Parkwood Road, Manchester	382163, 389295	18.8	13.8	12.8	8.3
7-C-H043	Altrincham Road, Altrincham	381816, 389323	17.0	12.6	11.0	7.3
7-C-H044	Altrincham Road, Altrincham	380668, 389336	17.6	13.0	11.0	7.4
7-C-H045	Abney Court Care Home, Abney Hall Park, Manchester Road, Cheadle	386017, 389336	28.2	19.8	12.8	8.3
7-C-H046	Altrincham Road, Altrincham	381363, 389358	17.0	12.6	11.0	7.3
7-C-H047	Beechpark Avenue, Wythenshawe	382277, 389358	18.8	13.8	12.8	8.3
7-C-H048	Yarwood Avenue, Altrincham	380738, 389378	17.6	13.0	11.0	7.4
7-C-H049	Merston Drive, Manchester	385184, 389499	27.1	19.2	12.8	8.4
7-C-H050	Kenilworth Road, Stockport	386922, 389529	28.2	19.8	12.8	8.3
7-C-H051	Bosley Road, Stockport	387230, 389705	20.7	15.0	12.6	8.4
7-C-H052	Kingsway, Manchester	385229, 389731	27.1	19.2	12.8	8.4
7-C-H053	Brandon Avenue, Manchester	382358, 389962	18.8	13.8	12.8	8.3
7-C-H054	Kingsway, Manchester	385370, 389999	27.1	19.2	12.8	8.4
7-C-H055	Ford Lane, Northenden, Manchester	383456, 390129	17.3	12.9	11.3	7.5
7-C-H056	Brighton Road, Stockport	388236, 390286	20.4	14.8	13.3	8.7
7-C-H057	Wilmslow Road, Manchester	385435, 390293	19.3	14.1	11.5	7.7
7-C-H058	Heaton Lane, Stockport	389023, 390368	22.6	16.2	13.0	8.6
7-C-H059	Palatine Road, Manchester	383125, 390561	17.3	12.9	11.3	7.5

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 ($\mu\text{g}/\text{m}^3$)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H060	Moor Lane, Manchester	381363, 390690	17.2	12.8	12.0	7.9
7-C-H061	Fellpark Road, Manchester	381401, 390700	17.2	12.8	12.0	7.9
7-C-H062	St Mary's Roman Catholic Primary School, Roman Road, Stockport	389344, 390766	22.6	16.2	13.0	8.6
7-C-H063	Roman Road, Stockport	389420, 390773	22.6	16.2	13.0	8.6
7-C-H064	Pepler Avenue, Manchester	381924, 390803	17.2	12.8	12.0	7.9
7-C-H065	Palatine Road, Manchester (Compound)	383486, 390845	17.3	12.9	11.3	7.5
7-C-H066	Rowdell Walk, Manchester	381617, 390875	17.2	12.8	12.0	7.9
7-C-H067	Queensway, Manchester	385704, 390919	19.3	14.1	11.5	7.7
7-C-H068	Penny Lane, Stockport	389510, 390946	22.6	16.2	13.0	8.6
7-C-H069	Kingsway, Manchester	385683, 390981	19.3	14.1	11.5	7.7
7-C-H070	Clarkethrone Terrace, Stockport	389468, 391343	20.2	14.7	11.5	7.9
7-C-H071	St Anns Street, Sale	380748, 391368	17.3	12.9	12.5	8.3
7-C-H072	Brinnington Road, Stockport	390679, 391382	23.5	16.9	12.9	8.5
7-C-H073	Bury Street, Stockport	389547, 391383	20.2	14.7	11.5	7.9
7-C-H074	Princess Road, Manchester	382730, 391384	16.3	12.2	11.1	7.4
7-C-H075	Wythenshawe Road, Sale	380690, 391418	17.3	12.9	12.5	8.3
7-C-H076	Fog Lane, Manchester	385914, 391505	17.8	13.2	11.3	7.8
7-C-H077	Portswood Nursery School, Stockport	390674, 391513	23.5	16.9	12.9	8.5
7-C-H078	Kingsway, Manchester	385903, 391615	17.8	13.2	11.3	7.8
7-C-H079	Princess Road, Manchester	382929, 391679	16.3	12.2	11.1	7.4
7-C-H080	Brindale Road, Stockport	391412, 391709	25.1	17.9	13.1	8.6
7-C-H081	Kingsway, Manchester	385992, 391769	17.8	13.2	11.3	7.8
7-C-H082	St. Ambrose Roman Catholic Primary School, Princess Road, Manchester	382917, 391770	16.3	12.2	11.1	7.4
7-C-H083	Riding Close, Sale	380736, 391771	17.3	12.9	12.5	8.3
7-C-H084	Ambrose Gardens, Manchester	383007, 391865	17.2	12.8	10.9	7.3
7-C-H085	Kingsway, Manchester	385982, 391887	17.8	13.2	11.3	7.8
7-C-H086	Rutland Lane, Sale	380794, 391924	17.3	12.9	12.5	8.3
7-C-H087	Kids Allowed Nursery, Christie Way, Manchester	382981, 391936	16.3	12.2	11.1	7.4
7-C-H088	Kingsway, Manchester	386075, 392060	17.6	13.0	11.5	7.9
7-C-H089	Derwent Avenue, Manchester	382931, 392173	16.2	12.1	10.9	7.3
7-C-H090	Kingsway, Manchester	386076, 392214	17.6	13.0	11.5	7.9

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H091	Lynway Drive, Manchester (Compound)	384969, 392238	20.6	14.9	11.2	7.5
7-C-H092	Stapeford Close, Sale	380421, 392242	16.3	12.2	12.8	8.3
7-C-H093	Appleton Lodge Care Home, Stockport	391658, 392304	18.7	13.7	12.9	8.4
7-C-H094	Wilmslow Road, Manchester (Compound)	384889, 392306	20.6	14.9	11.2	7.5
7-C-H095	Cross Street, Sale	378622, 392319	18.4	13.6	11.4	7.7
7-C-H096	Barlow Terrace, Manchester	382554, 392443	16.2	12.1	10.9	7.3
7-C-H097	Arnesby Avenue, Sale	380338, 392464	16.3	12.2	12.8	8.3
7-C-H098	Rutland Crescent, Stockport	391614, 392476	18.7	13.7	12.9	8.4
7-C-H099	Kingsway, Manchester	386222, 392573	17.6	13.0	11.5	7.9
7-C-H100	Newhaven Road, Stockport	391606, 392580	18.7	13.7	12.9	8.4
7-C-H101	Maple Court Cross Street, Sale	378823, 392650	18.4	13.6	11.4	7.7
7-C-H102	Barlow Moore Road, Manchester	382260, 392740	16.2	12.1	10.9	7.3
7-C-H103	Cross Street, Sale	378899, 392771	18.4	13.6	11.4	7.7
7-C-H104	Barlow Moore Road, Manchester	382240, 392812	16.2	12.1	10.9	7.3
7-C-H105	Kingsway, Manchester	386251, 392831	17.6	13.0	11.5	7.9
7-C-H106	Barlow Moor Road, Manchester	382164, 392842	16.2	12.1	10.9	7.3
7-C-H107	Mauldeath Road, Manchester	386302, 392855	17.6	13.0	11.5	7.9
7-C-H108	Rainbows Nursery, Manchester	386268, 392875	17.6	13.0	11.5	7.9
7-C-H109	Princess Road, Manchester	383833, 393274	16.4	12.2	11.2	7.5
7-C-H110	Kingsway, Manchester	386399, 393279	18.8	13.7	12.1	8.4
7-C-H111	Kingsway, Manchester	386438, 393474	18.8	13.7	12.1	8.4
7-C-H112	Princess Road, Manchester	383901, 393524	16.4	12.2	11.2	7.5
7-C-H113	Princess Road, Withington	383907, 393669	16.4	12.2	11.2	7.5
7-C-H114	Torbay Road, Urmston	377615, 393920	16.0	11.9	11.6	7.6
7-C-H115	Moseley Road, Manchester	386577, 393931	18.8	13.7	12.1	8.4
7-C-H116	Hawthorn Medical Centre, Manchester	386502, 393952	18.8	13.7	12.1	8.4
7-C-H117	Birchfields Road, Manchester	386442, 393959	18.8	13.7	12.1	8.4
7-C-H118	Wilbraham Road, Manchester	383905, 394050	19.3	14.1	11.8	7.9
7-C-H119	Wilbraham Road, Manchester	384231, 394076	18.5	13.6	12.1	8.2
7-C-H120	Wilbraham Road, Manchester	383902, 394087	19.3	14.1	11.8	7.9
7-C-H121	Lloyd Street South, Manchester	384182, 394106	18.5	13.6	12.1	8.2
7-C-H122	Birchfields Primary School, Lytham Road, Manchester	386429, 394236	18.9	13.8	11.9	8.1
7-C-H123	Auburn Drive, Urmston	377477, 394459	17.8	13.1	13.0	8.6

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 (µg/m³)			
			NOx	NO ₂	PM ₁₀	PM _{2.5}
7-C-H124	Birchfields Road, Manchester	386348, 394507	18.9	13.8	11.9	8.1
7-C-H125	Birchfields Road, Manchester	386377, 394512	18.9	13.8	11.9	8.1
7-C-H126	Highfield Primary School, Bridgenorth Avenue, Manchester	377577, 394642	17.8	13.1	13.0	8.6
7-C-H127	Park Road, Stretford	379206, 394645	20.8	15.1	12.0	8.1
7-C-H128	Manchester Grammar School, Birch Hall Lane, Manchester	386217, 394739	18.9	13.8	11.9	8.1
7-C-H129	St Anthony's Roman Catholic School, Bradfield Road, Manchester	377621, 394797	17.8	13.1	13.0	8.6
7-C-H130	Birchfields Road, Manchester	386242, 394832	18.9	13.8	11.9	8.1
7-C-H131	Park Road, Stretford	379175, 394887	20.8	15.1	12.0	8.1
7-C-H132	Birch Hall Lane, Manchester	386250, 394898	18.9	13.8	11.9	8.1
7-C-H133	Little Petals Day Nursery, Derbyshire Lane, Manchester	379074, 394927	20.8	15.1	12.0	8.1
7-C-H134	Derbyshire Lane, Stretford	378969, 394942	18.4	13.6	11.4	7.7
7-C-H135	Thompson Close, Denton	391039, 395057	24.7	17.5	13.6	8.8
7-C-H136	Birchfields Road, Manchester	386166, 395068	21.4	15.4	12.3	8.3
7-C-H137	Birchfields Road, Manchester	386082, 395237	21.4	15.4	12.3	8.3
7-C-H138	Anson Road, Manchester	386057, 395272	21.4	15.4	12.3	8.3
7-C-H139	Anson Road, Manchester	385992, 395296	20.0	14.5	11.9	7.9
7-C-H140	Anson Road, Manchester	385884, 395404	20.0	14.5	11.9	7.9
7-C-H141	Dorchester Avenue, Urmston	377569, 395417	18.3	13.5	13.3	8.7
7-C-H142	Stanley Road, Denton	390987, 395479	18.4	13.5	11.9	8.1
7-C-H143	Anson Road, Manchester	385798, 395515	20.0	14.5	11.9	7.9
7-C-H144	Anson Road, Manchester	385667, 395593	20.0	14.5	11.9	7.9
7-C-H145	Barton Road, Stretford	377670, 395597	18.3	13.5	13.3	8.7
7-C-H146	Victoria Nursing Home, Anson Road, Manchester	385684, 395634	20.0	14.5	11.9	7.9
7-C-H147	Kingsway Primary School, Kingsway Park, Urmston	377463, 395713	18.3	13.5	13.3	8.7
7-C-H148	Anson Road, Manchester	385562, 395754	20.0	14.5	11.9	7.9
7-C-H149	Upper Brooke Street, Manchester	385523, 395755	20.0	14.5	11.9	7.9
7-C-H150	Barton Clough Primary School Building, Audley Avenue, Stretford, Manchester	377803, 395776	18.3	13.5	13.3	8.7
7-C-H151	Hathersage Road, Manchester	385500, 395838	20.0	14.5	11.9	7.9
7-C-H152	Upper Brook Street, Manchester	385483, 395866	20.0	14.5	11.9	7.9

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H153	Hyde Road, Manchester	389145, 395868	18.5	13.6	12.3	8.5
7-C-H154	Bent Terrace, Urmston	376338, 395881	18.3	13.5	11.2	7.6
7-C-H155	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	387321, 395971	19.2	14.1	12.3	8.5
7-C-H156	Kirkmanshulme Lane, Manchester	387327, 395997	19.2	14.1	12.3	8.5
7-C-H157	Kirkmanshulme Lane, Manchester	387383, 396021	19.1	14.0	12.2	8.1
7-C-H158	Iona Way, Manchester	377310, 396029	20.5	14.9	13.0	8.3
7-C-H159	Benbecula Way, Manchester	376693, 396311	22.1	15.8	13.6	8.8
7-C-H160	Wellington Street, Manchester	388707, 396347	19.8	14.4	12.1	8.3
7-C-H161	Millwall Close, Manchester	388670, 396364	19.8	14.4	12.1	8.3
7-C-H162	Stroma Gardens, Manchester	376444, 396392	22.1	15.8	13.6	8.8
7-C-H163	Chapman Street, Manchester	388842, 396441	19.8	14.4	12.1	8.3
7-C-H164	Chapman Street, Manchester	388826, 396446	19.8	14.4	12.1	8.3
7-C-H165	Hyde Road, Manchester	387158, 396509	19.1	14.0	12.2	8.1
7-C-H166	Lawnswood Road, Manchester	387047, 396567	19.1	14.0	12.2	8.1
7-C-H167	All Saints Primary School, Belle Vue Street, Manchester	387408, 396714	19.1	14.0	12.2	8.1
7-C-H168	Sharnford Square, Manchester	387358, 396770	19.1	14.0	12.2	8.1
7-C-H169	All Saints Primary School, Belle Vue Street, Manchester	387351, 396824	19.1	14.0	12.2	8.1
7-C-H170	Kids Allowed Nursery, Old Park Lane, Urmston	376451, 396908	22.1	15.8	13.6	8.8
7-C-H171	Wenlock Way, Manchester	387175, 396943	19.1	14.0	12.2	8.1
7-C-H172	Nicholls Campus, Hyde Road, Ardwick	385757, 396952	22.0	15.8	12.0	8.0
7-C-H173	Gorton Lane, Manchester	387225, 396982	19.1	14.0	12.2	8.1
7-C-H174	Wenlock Way, Manchester	387182, 396998	19.1	14.0	12.2	8.1
7-C-H175	Wenlock Way, Manchester	387187, 397040	21.4	15.4	11.8	7.9
7-C-H176	Gorton Lane, Manchester	387222, 397043	21.4	15.4	11.8	7.9
7-C-H177	Cornwall Street, Manchester	388679, 397094	20.6	14.9	11.8	8.0
7-C-H178	Audenshaw Community Primary School, Ash Street, Audenshaw	391502, 397269	21.8	15.7	13.7	8.8
7-C-H179	Abinger Road, Ashton-In-Makerfield	390192, 397308	17.8	13.1	12.0	8.0
7-C-H180	Ashton Old Road, Manchester	390139, 397324	17.8	13.1	12.0	8.0
7-C-H181	Ashton Old Road, Manchester	390139, 397324	17.8	13.1	12.0	8.0

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H182	Abbey Hey Lane, Manchester	389384, 397342	18.5	13.6	12.0	8.3
7-C-H183	Trafalgar Avenue, Audenshaw	391320, 397343	21.8	15.7	13.7	8.8
7-C-H184	Erin Street, Manchester	389176, 397350	18.5	13.6	12.0	8.3
7-C-H185	Varna Community Primary School, Chisholm Street, Openshaw	388767, 397357	20.6	14.9	11.8	8.0
7-C-H186	Old Ashton Road, Manchester	389258, 397367	18.5	13.6	12.0	8.3
7-C-H187	Spring Bank Avenue, Audenshaw	391506, 397373	21.8	15.7	13.7	8.8
7-C-H188	Ashton Old Road, Openshaw	388763, 397386	20.6	14.9	11.8	8.0
7-C-H189	Ashton Old Road, Tameside	388422, 397387	20.6	14.9	11.8	8.0
7-C-H190	Openshaw Campus, Whitworth Street, Manchester	387267, 397390	21.4	15.4	11.8	7.9
7-C-H191	Ashton Old Road, Tameside	388362, 397392	20.6	14.9	11.8	8.0
7-C-H192	Ashton Old Road, Manchester	388200, 397426	20.6	14.9	11.8	8.0
7-C-H193	Abinger Road, Ashton-In-Makerfield	390612, 397473	17.8	13.1	12.0	8.0
7-C-H194	Manchester Road, Audenshaw	390538, 397481	17.8	13.1	12.0	8.0
7-C-H195	Greenwood Close, Audenshaw	390806, 397482	17.8	13.1	12.0	8.0
7-C-H196	Ashton Old Road, Manchester	387616, 397493	21.4	15.4	11.8	7.9
7-C-H197	Manchester Road, Audenshaw	390720, 397521	17.8	13.1	12.0	8.0
7-C-H198	Turing Close, Openshaw	387228, 397537	21.4	15.4	11.8	7.9
7-C-H199	Falconwood Way, Manchester	387107, 397539	21.4	15.4	11.8	7.9
7-C-H200	Turing Court, Manchester	387222, 397552	21.4	15.4	11.8	7.9
7-C-H201	Oak House Surgery, Pottery Lane, Manchester	387208, 397691	21.4	15.4	11.8	7.9
7-C-H202	Churchfield Walk, Manchester	387247, 397697	21.4	15.4	11.8	7.9
7-C-H203	Wilson Street, Manchester	387406, 397812	21.4	15.4	11.8	7.9
7-C-H204	Peacocks Nursery, Audenshaw	391420, 397829	21.8	15.7	13.7	8.8
7-C-H205	Lumb Lane, Audenshaw	391329, 397875	21.8	15.7	13.7	8.8
7-C-H206	Grey Mare Lane, Manchester	387070, 397930	21.4	15.4	11.8	7.9
7-C-H207	Manchester Road, Audenshaw	391533, 397931	21.8	15.7	13.7	8.8
7-C-H208	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	387113, 397953	21.4	15.4	11.8	7.9
7-C-H209	Droysden Road, Manchester	391306, 397962	21.8	15.7	13.7	8.8
7-C-H210	Droysden Road, Audenshaw	390868, 398024	17.7	13.1	11.8	8.2
7-C-H211	Droysden Road, Audenshaw	390790, 398061	17.7	13.1	11.8	8.2
7-C-H212	Ashton Road, Manchester	390551, 398070	17.7	13.1	11.8	8.2
7-C-H213	Grey Mare Lane, Manchester	387049, 398078	22.2	15.9	11.6	7.7

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			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H214	Manchester Road, Manchester	390361, 398104	17.7	13.1	11.8	8.2
7-C-H215	St Mary's Church of England Primary School, Church Street, Droylsden, Manchester	390510, 398114	17.7	13.1	11.8	8.2
7-C-H216	Birch Street, Ashton-under-lyme	392379, 398130	23.8	16.9	14.7	9.4
7-C-H217	Grey Mare Lane, Manchester	387008, 398138	22.2	15.9	11.6	7.7
7-C-H218	Manchester Road, Manchester	389570, 398177	18.8	13.7	11.7	8.2
7-C-H219	Manchester Road Community Primary School, Droylsden, Manchester	389396, 398226	18.8	13.7	11.7	8.2
7-C-H220	Clayton Lane, Manchester	387896, 398275	22.2	15.9	11.6	7.7
7-C-H221	Manchester Road, Manchester	389020, 398279	18.8	13.7	11.7	8.2
7-C-H222	Ashton New Road, Manchester	388871, 398288	19.8	14.4	11.6	8.0
7-C-H223	Orme Close, Manchester	386432, 398343	21.5	15.5	11.7	7.6
7-C-H224	Ashton New Road, Manchester	388505, 398369	19.8	14.4	11.6	8.0
7-C-H225	Purslow Close, Manchester	386227, 398395	21.5	15.5	11.7	7.6
7-C-H226	Braddon Street, Manchester	388004, 398435	19.8	14.4	11.6	8.0
7-C-H227	Graham Street, Ashton-Under-Lyne	392497, 398439	23.8	16.9	14.7	9.4
7-C-H228	Ashton New Road, Manchester	388287, 398439	19.8	14.4	11.6	8.0
7-C-H229	Ashton New Road, Manchester	387634, 398531	22.2	15.9	11.6	7.7
7-C-H230	Broxton Street, Manchester	386514, 399221	23.5	16.6	11.8	7.7
7-C-H231	Uxbridge Street, Ashton Under Lyne	393023, 399258	21.6	15.5	12.1	8.3
7-C-H232	Bradford Road, Manchester	386547, 399274	23.5	16.6	11.8	7.7
7-C-H233	The Mews, Manchester	386578, 399317	23.5	16.6	11.8	7.7
7-C-H234	Back Lane, Ashton-Under-Lyne	391970, 399807	16.5	12.3	11.1	7.5
7-C-H235	Back Lane, Littlemoss	392004, 399976	21.9	15.8	12.8	8.4
7-C-H236	New Oak Close, Failsworth	391067, 401737	20.2	14.8	12.7	8.3
7-C-H237	Roman Road, Oldham	390946, 402035	21.3	15.3	14.1	9.1
7-C-H238	Roman Road, Oldham	390909, 402102	21.3	15.3	14.1	9.1
7-C-H239	Roman Road, Oldham	390972, 402187	21.3	15.3	14.1	9.1
7-C-H240	Clive Street, Oldham	390864, 402379	21.3	15.3	14.1	9.1
7-C-H241	Bardsley Street, Oldham	389980, 402967	18.6	13.6	12.3	8.3
7-C-H242	Whitegate End Primary School, Butterworth Lane, Oldham	389538, 403088	19.5	14.2	13.8	9.0
7-C-H243	Chadderton, Oldham	389358, 403393	19.5	14.2	13.8	9.0

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2025 ($\mu\text{g}/\text{m}^3$)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-C-H244	St Margaret Mary Roman Catholic Primary School, St Margaret's Road, Manchester	388736, 403396	25.1	17.7	12.8	8.4
7-C-H245	St Margaret's Road, Manchester	388703, 403410	25.1	17.7	12.8	8.4
7-C-H246	Broadway, Oldham	389528, 403476	19.5	14.2	13.8	9.0
7-C-H247	Chadderton, Oldham	389873, 403840	19.5	14.2	13.8	9.0
7-C-H248	Chadderton, Oldham	389962, 403926	19.5	14.2	13.8	9.0
7-C-H249	Kingfisher Special School, Foxdenton Lane, Chadderton, Oldham	389916, 404090	20.3	14.7	11.3	7.6

Table 12: Modelled ecological receptor backgrounds, APIS data and critical loads (construction phase)

Receptor	Sensitive habitat	2025 NO _x background concentration ($\mu\text{g}/\text{m}^3$)	APIS data ⁴ of average total N deposition (kg N/ha/yr)	Critical load (kg N/ha/yr)
Hollinwood Branch Canal SSSI	-	19.3	23.7	-
Rochdale Canal SSSI and SAC	Fen, marsh and swamp (A)	19.5	30.0	3

Assessment results

4.3.7 All impacts are predicted to be negligible for NO₂, PM₁₀ and PM_{2.5}. Table 13, Table 14 and Table 15 provide the summary of the modelled pollutant concentrations for the assessed receptors for the worst case construction traffic scenario. The magnitude of change and impact descriptor are also derived following the IAQM/Environmental Protection UK (EPUK) methodology⁵. Table 16 and Table 17 provide the summary of the assessment for the ecological receptors for the worst-case construction traffic scenario.

⁴ Air Pollution Information System. Available online at : <http://www.apis.ac.uk/>.

⁵ Institute of Air Quality Management (2017), *Land-Use Planning & Development Control: Planning For Air Quality*. Available online at: <http://www.iaqm.co.uk/text/guidance/air-quality-planning-guidance.pdf>.

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Table 13: Predicted annual mean NO₂ concentrations and impacts (construction phase)

Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H001	Handforth, Wilmslow	13.0	13.2	0.2	Negligible	Not significant
7-C-H002	Longsight Lane, Cheadle Hulme	15.8	15.9	0.1	Negligible	Not significant
7-C-H003	Little Acorns Day Nursery, Handforth	17.8	18.0	0.2	Negligible	Not significant
7-C-H004	Stanley Road, Cheadle	14.7	14.8	0.1	Negligible	Not significant
7-C-H005	Stanley Road, Cheadle Hulme	18.1	18.3	0.2	Negligible	Not significant
7-C-H006	St James Catholic High School Building, Cheadle Hulme, Cheadle	17.4	17.5	0.1	Negligible	Not significant
7-C-H007	Regency Gardens, Cheadle Hulme	24.5	24.8	0.3	Negligible	Not significant
7-C-H008	Thorley Lane, Manchester	24.9	25.1	0.2	Negligible	Not significant
7-C-H009	Heald Green, Cheadle	19.1	19.2	0.1	Negligible	Not significant
7-C-H010	Rowarth Road, Manchester	30.9	31.1	0.2	Negligible	Not significant
7-C-H011	Hurst Walk, Manchester	25.0	25.1	0.1	Negligible	Not significant
7-C-H012	Newall Road, Wythenshawe	19.9	20.0	0.1	Negligible	Not significant
7-C-H013	Kids Allowed Nursery, Cheadle Royal Business Park, Cheadle	15.8	16.0	0.2	Negligible	Not significant
7-C-H014	Newall Road, Manchester	17.3	17.3	< 0.1	Negligible	Not significant
7-C-H015	Peterswood Close, Manchester	26.1	26.0	-0.1	Negligible	Not significant
7-C-H016	Barnacle Avenue, Manchester	16.8	16.8	< 0.1	Negligible	Not significant
7-C-H017	Newall Green High School, Wythenshawe	15.9	15.9	< 0.1	Negligible	Not significant
7-C-H018	Kingsway, Cheadle	23.4	23.8	0.4	Negligible	Not significant
7-C-H019	Piper Hill High School, Firbank Road	22.0	22.0	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H020	Shawbury Road, Manchester	29.6	29.5	-0.1	Negligible	Not significant
7-C-H021	Kingsway School, Foxley Road, Gatley	15.2	15.3	0.1	Negligible	Not significant
7-C-H022	Wythenshawe Hospital, Southmoor Road, Manchester	15.8	15.7	-0.1	Negligible	Not significant
7-C-H023	Wythenshawe Hospital, Southmoor Road, Manchester	17.0	17.1	0.1	Negligible	Not significant
7-C-H024	Kingsway, Cheadle	29.7	30.1	0.4	Negligible	Not significant
7-C-H025	Fouracres Road, Manchester	17.1	17.2	0.1	Negligible	Not significant
7-C-H026	Kingsway, Cheadle	33.2	33.8	0.6	Negligible	Not significant
7-C-H027	Banbury Road, Manchester	18.1	18.3	0.2	Negligible	Not significant
7-C-H028	Greenwood Road, Wythenshawe	21.0	21.1	0.1	Negligible	Not significant
7-C-H029	Kingsway, Cheadle	30.8	31.3	0.5	Negligible	Not significant
7-C-H030	Benchill Primary School, Benchill Road, Wythenshawe	19.3	19.4	0.1	Negligible	Not significant
7-C-H031	Marchbank Drive, Cheadle	22.4	22.7	0.3	Negligible	Not significant
7-C-H032	Partridge Avenue, Wythenshawe	23.7	23.9	0.2	Negligible	Not significant
7-C-H033	Calderbeck Way, Manchester	22.6	22.6	< 0.1	Negligible	Not significant
7-C-H034	Floatshall Road, Manchester	16.0	16.1	0.1	Negligible	Not significant
7-C-H035	Lauriston Close, Manchester	23.1	23.1	< 0.1	Negligible	Not significant
7-C-H036	Lorna Grove, Gatley, Cheadle	19.9	19.9	< 0.1	Negligible	Not significant
7-C-H037	Crossgate Avenue, Manchester	21.4	21.3	-0.1	Negligible	Not significant
7-C-H038	Pendelbury Road, Gatley	21.7	21.7	< 0.1	Negligible	Not significant
7-C-H039	Booth Square, Cheadle	22.7	22.8	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H040	Hearthstone Close, Cheadle	22.8	22.9	0.1	Negligible	Not significant
7-C-H041	Pendlebury Road, Gatley	24.8	24.9	0.1	Negligible	Not significant
7-C-H042	Parkwood Road, Manchester	25.2	25.4	0.2	Negligible	Not significant
7-C-H043	Altrincham Road, Altrincham	17.8	17.9	0.1	Negligible	Not significant
7-C-H044	Altrincham Road, Altrincham	15.7	15.9	0.2	Negligible	Not significant
7-C-H045	Abney Court Care Home, Abney Hall Park, Manchester Road, Cheadle	23.7	23.6	-0.1	Negligible	Not significant
7-C-H046	Altrincham Road, Altrincham	15.6	15.8	0.2	Negligible	Not significant
7-C-H047	Beechpark Avenue, Wythenshawe	24.7	24.8	0.1	Negligible	Not significant
7-C-H048	Yarwood Avenue, Altrincham	16.0	16.2	0.2	Negligible	Not significant
7-C-H049	Merston Drive, Manchester	23.8	23.8	< 0.1	Negligible	Not significant
7-C-H050	Kenilworth Road, Stockport	31.1	31.1	< 0.1	Negligible	Not significant
7-C-H051	Bosley Road, Stockport	23.5	23.5	< 0.1	Negligible	Not significant
7-C-H052	Kingsway, Manchester	27.2	27.2	< 0.1	Negligible	Not significant
7-C-H053	Brandon Avenue, Manchester	22.5	22.6	0.1	Negligible	Not significant
7-C-H054	Kingsway, Manchester	24.4	24.4	< 0.1	Negligible	Not significant
7-C-H055	Ford Lane, Northenden, Manchester	29.1	29.3	0.2	Negligible	Not significant
7-C-H056	Brighton Road, Stockport	25.5	25.5	< 0.1	Negligible	Not significant
7-C-H057	Wilmslow Road, Manchester	26.2	26.2	< 0.1	Negligible	Not significant
7-C-H058	Heaton Lane, Stockport	26.6	26.6	< 0.1	Negligible	Not significant
7-C-H059	Palatine Road, Manchester	22.8	22.9	0.1	Negligible	Not significant
7-C-H060	Moor Lane, Manchester	16.9	17.1	0.2	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H061	Fellpark Road, Manchester	18.3	18.5	0.2	Negligible	Not significant
7-C-H062	St Mary's Roman Catholic Primary School, Roman Road, Stockport	25.4	25.5	0.1	Negligible	Not significant
7-C-H063	Roman Road, Stockport	35.0	35.1	0.1	Negligible	Not significant
7-C-H064	Pepler Avenue, Manchester	19.4	19.5	0.1	Negligible	Not significant
7-C-H065	Palatine Road, Manchester (Compound)	17.6	17.8	0.2	Negligible	Not significant
7-C-H066	Rowdell Walk, Manchester	21.7	21.8	0.1	Negligible	Not significant
7-C-H067	Queensway, Manchester	20.0	20.0	< 0.1	Negligible	Not significant
7-C-H068	Penny Lane, Stockport	23.8	24.0	0.2	Negligible	Not significant
7-C-H069	Kingsway, Manchester	21.5	21.6	0.1	Negligible	Not significant
7-C-H070	Clarkethrone Terrace, Stockport	20.2	20.7	0.5	Negligible	Not significant
7-C-H071	St Anns Street, Sale	17.0	17.3	0.3	Negligible	Not significant
7-C-H072	Brinnington Road, Stockport	24.2	24.3	0.1	Negligible	Not significant
7-C-H073	Bury Street, Stockport	25.1	24.8	-0.3	Negligible	Not significant
7-C-H074	Princess Road, Manchester	25.5	25.7	0.2	Negligible	Not significant
7-C-H075	Wythenshawe Road, Sale	19.4	19.9	0.5	Negligible	Not significant
7-C-H076	Fog Lane, Manchester	18.1	18.1	< 0.1	Negligible	Not significant
7-C-H077	Portswood Nursery School, Stockport	28.8	29.0	0.2	Negligible	Not significant
7-C-H078	Kingsway, Manchester	20.4	20.4	< 0.1	Negligible	Not significant
7-C-H079	Princess Road, Manchester	20.0	20.1	0.1	Negligible	Not significant
7-C-H080	Brindale Road, Stockport	24.6	24.8	0.2	Negligible	Not significant
7-C-H081	Kingsway, Manchester	17.5	17.5	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H082	St. Ambrose Roman Catholic Primary School, Princess Road, Manchester	26.9	27.1	0.2	Negligible	Not significant
7-C-H083	Riding Close, Sale	22.9	23.0	0.1	Negligible	Not significant
7-C-H084	Ambrose Gardens, Manchester	20.3	20.4	0.1	Negligible	Not significant
7-C-H085	Kingsway, Manchester	18.8	18.8	< 0.1	Negligible	Not significant
7-C-H086	Rutland Lane, Sale	21.7	21.8	0.1	Negligible	Not significant
7-C-H087	Kids Allowed Nursery, Christie Way, Manchester	22.9	23.1	0.2	Negligible	Not significant
7-C-H088	Kingsway, Manchester	17.1	17.2	0.1	Negligible	Not significant
7-C-H089	Derwent Avenue, Manchester	16.5	16.6	0.1	Negligible	Not significant
7-C-H090	Kingsway, Manchester	18.8	18.8	< 0.1	Negligible	Not significant
7-C-H091	Lynway Drive, Manchester (Compound)	15.7	15.7	< 0.1	Negligible	Not significant
7-C-H092	Stapeford Close, Sale	16.4	16.5	0.1	Negligible	Not significant
7-C-H093	Appleton Lodge Care Home, Stockport	19.3	19.4	0.1	Negligible	Not significant
7-C-H094	Wilmslow Road, Manchester (Compound)	18.2	18.3	0.1	Negligible	Not significant
7-C-H095	Cross Street, Sale	21.9	22.1	0.2	Negligible	Not significant
7-C-H096	Barlow Terrace, Manchester	14.8	14.9	0.1	Negligible	Not significant
7-C-H097	Arnesby Avenue, Sale	18.1	18.2	0.1	Negligible	Not significant
7-C-H098	Rutland Crescent, Stockport	20.3	20.4	0.1	Negligible	Not significant
7-C-H099	Kingsway, Manchester	17.0	17.0	< 0.1	Negligible	Not significant
7-C-H100	Newhaven Road, Stockport	20.9	21.0	0.1	Negligible	Not significant
7-C-H101	Maple Court Cross Street, Sale	24.2	24.5	0.3	Negligible	Not significant
7-C-H102	Barlow Moore Road, Manchester	15.4	15.5	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H103	Cross Street, Sale	28.0	28.3	0.3	Negligible	Not significant
7-C-H104	Barlow Moore Road, Manchester	17.7	17.9	0.2	Negligible	Not significant
7-C-H105	Kingsway, Manchester	19.3	19.3	< 0.1	Negligible	Not significant
7-C-H106	Barlow Moor Road, Manchester	15.9	16.1	0.2	Negligible	Not significant
7-C-H107	Mauldeath Road, Manchester	17.5	17.6	0.1	Negligible	Not significant
7-C-H108	Rainbows Nursery, Manchester	21.6	21.6	< 0.1	Negligible	Not significant
7-C-H109	Princess Road, Manchester	18.5	18.6	0.1	Negligible	Not significant
7-C-H110	Kingsway, Manchester	17.4	17.4	< 0.1	Negligible	Not significant
7-C-H111	Kingsway, Manchester	17.0	17.1	0.1	Negligible	Not significant
7-C-H112	Princess Road, Manchester	19.4	19.6	0.2	Negligible	Not significant
7-C-H113	Princess Road, Withington	21.0	21.2	0.2	Negligible	Not significant
7-C-H114	Torbay Road, Urmston	15.8	15.8	< 0.1	Negligible	Not significant
7-C-H115	Moseley Road, Manchester	21.9	22.0	0.1	Negligible	Not significant
7-C-H116	Hawthorn Medical Centre, Manchester	24.6	24.7	0.1	Negligible	Not significant
7-C-H117	Birchfields Road, Manchester	19.9	19.9	< 0.1	Negligible	Not significant
7-C-H118	Wilbraham Road, Manchester	21.4	21.6	0.2	Negligible	Not significant
7-C-H119	Wilbraham Road, Manchester	16.1	16.3	0.2	Negligible	Not significant
7-C-H120	Wilbraham Road, Manchester	23.4	23.6	0.2	Negligible	Not significant
7-C-H121	Lloyd Street South, Manchester	17.9	18.2	0.3	Negligible	Not significant
7-C-H122	Birchfields Primary School, Lytham Road, Manchester	17.9	17.9	< 0.1	Negligible	Not significant
7-C-H123	Auburn Drive, Urmston	28.9	29.1	0.2	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H124	Birchfields Road, Manchester	18.6	18.6	< 0.1	Negligible	Not significant
7-C-H125	Birchfields Road, Manchester	19.3	19.3	< 0.1	Negligible	Not significant
7-C-H126	Highfield Primary School, Bridgenorth Avenue, Manchester	24.3	24.4	0.1	Negligible	Not significant
7-C-H127	Park Road, Stretford	19.6	19.8	0.2	Negligible	Not significant
7-C-H128	Manchester Grammar School, Birch Hall Lane, Manchester	15.1	15.1	< 0.1	Negligible	Not significant
7-C-H129	St Anthony's Roman Catholic School, Bradfield Road, Manchester	21.5	21.6	0.1	Negligible	Not significant
7-C-H130	Birchfields Road, Manchester	18.2	18.1	-0.1	Negligible	Not significant
7-C-H131	Park Road, Stretford	22.0	22.3	0.3	Negligible	Not significant
7-C-H132	Birch Hall Lane, Manchester	20.3	20.3	< 0.1	Negligible	Not significant
7-C-H133	Little Petals Day Nursery, Derbyshire Lane, Manchester	20.0	20.3	0.3	Negligible	Not significant
7-C-H134	Derbyshire Lane, Stretford	19.0	19.6	0.6	Negligible	Not significant
7-C-H135	Thompson Close, Denton	26.9	27.0	0.1	Negligible	Not significant
7-C-H136	Birchfields Road, Manchester	20.3	20.2	-0.1	Negligible	Not significant
7-C-H137	Birchfields Road, Manchester	21.6	21.6	< 0.1	Negligible	Not significant
7-C-H138	Anson Road, Manchester	23.3	23.3	< 0.1	Negligible	Not significant
7-C-H139	Anson Road, Manchester	18.4	18.4	< 0.1	Negligible	Not significant
7-C-H140	Anson Road, Manchester	19.5	19.4	-0.1	Negligible	Not significant
7-C-H141	Dorchester Avenue, Urmston	34.3	34.5	0.2	Negligible	Not significant
7-C-H142	Stanley Road, Denton	22.1	22.1	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H143	Anson Road, Manchester	18.7	18.7	< 0.1	Negligible	Not significant
7-C-H144	Anson Road, Manchester	17.2	17.2	< 0.1	Negligible	Not significant
7-C-H145	Barton Road, Stretford	24.4	24.6	0.2	Negligible	Not significant
7-C-H146	Victoria Nursing Home, Anson Road, Manchester	17.8	17.7	-0.1	Negligible	Not significant
7-C-H147	Kingsway Primary School, Kingsway Park, Urmston	23.6	23.8	0.2	Negligible	Not significant
7-C-H148	Anson Road, Manchester	20.5	20.4	-0.1	Negligible	Not significant
7-C-H149	Upper Brooke Street, Manchester	17.1	17.0	-0.1	Negligible	Not significant
7-C-H150	Barton Clough Primary School Building, Audley Avenue, Stretford, Manchester	17.4	17.4	< 0.1	Negligible	Not significant
7-C-H151	Hathersage Road, Manchester	22.9	22.8	-0.1	Negligible	Not significant
7-C-H152	Upper Brook Street, Manchester	22.1	22.0	-0.1	Negligible	Not significant
7-C-H153	Hyde Road, Manchester	20.8	21.0	0.2	Negligible	Not significant
7-C-H154	Bent Terrace, Urmston	23.0	23.3	0.3	Negligible	Not significant
7-C-H155	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	15.9	15.9	< 0.1	Negligible	Not significant
7-C-H156	Kirkmanshulme Lane, Manchester	17.2	17.5	0.3	Negligible	Not significant
7-C-H157	Kirkmanshulme Lane, Manchester	17.0	17.4	0.4	Negligible	Not significant
7-C-H158	Iona Way, Manchester	26.8	27.0	0.2	Negligible	Not significant
7-C-H159	Benbecula Way, Manchester	28.3	28.5	0.2	Negligible	Not significant
7-C-H160	Wellington Street, Manchester	16.9	17.1	0.2	Negligible	Not significant
7-C-H161	Millwall Close, Manchester	16.2	16.3	0.1	Negligible	Not significant
7-C-H162	Stroma Gardens. Manchester	26.7	27.1	0.4	Negligible	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H163	Chapman Street, Manchester	19.3	19.6	0.3	Negligible	Not significant
7-C-H164	Chapman Street, Manchester	18.7	19.0	0.3	Negligible	Not significant
7-C-H165	Hyde Road, Manchester	23.4	23.8	0.4	Negligible	Not significant
7-C-H166	Lawnswood Road, Manchester	21.3	21.4	0.1	Negligible	Not significant
7-C-H167	All Saints Primary School, Belle Vue Street, Manchester	15.5	15.8	0.3	Negligible	Not significant
7-C-H168	Sharnford Square, Manchester	15.5	15.9	0.4	Negligible	Not significant
7-C-H169	All Saints Primary School, Belle Vue Street, Manchester	16.2	16.7	0.5	Negligible	Not significant
7-C-H170	Kids Allowed Nursery, Old Park Lane, Urmston	19.1	19.2	0.1	Negligible	Not significant
7-C-H171	Wenlock Way, Manchester	21.0	21.3	0.3	Negligible	Not significant
7-C-H172	Nicholls Campus, Hyde Road, Ardwick	22.8	22.9	0.1	Negligible	Not significant
7-C-H173	Gorton Lane, Manchester	21.2	21.7	0.5	Negligible	Not significant
7-C-H174	Wenlock Way, Manchester	23.3	23.6	0.3	Negligible	Not significant
7-C-H175	Wenlock Way, Manchester	23.9	24.3	0.4	Negligible	Not significant
7-C-H176	Gorton Lane, Manchester	21.5	21.9	0.4	Negligible	Not significant
7-C-H177	Cornwall Street, Manchester	20.6	20.9	0.3	Negligible	Not significant
7-C-H178	Audenshaw Community Primary School, Ash Street, Audenshaw	18.4	18.5	0.1	Negligible	Not significant
7-C-H179	Abinger Road, Ashton-In-Makerfield	17.5	17.5	< 0.1	Negligible	Not significant
7-C-H180	Ashton Old Road, Manchester	20.4	20.5	0.1	Negligible	Not significant
7-C-H181	Ashton Old Road, Manchester	20.4	20.5	0.1	Negligible	Not significant
7-C-H182	Abbey Hey Lane, Manchester	18.3	18.4	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H183	Trafalgar Avenue, Audenshaw	31.3	31.5	0.2	Negligible	Not significant
7-C-H184	Erin Street, Manchester	19.3	19.3	< 0.1	Negligible	Not significant
7-C-H185	Varna Community Primary School, Chisholm Street, Openshaw	18.6	18.6	< 0.1	Negligible	Not significant
7-C-H186	Old Ashton Road, Manchester	24.8	24.8	< 0.1	Negligible	Not significant
7-C-H187	Spring Bank Avenue, Audenshaw	21.7	21.8	0.1	Negligible	Not significant
7-C-H188	Ashton Old Road, Openshaw	23.7	23.7	< 0.1	Negligible	Not significant
7-C-H189	Ashton Old Road, Tameside	21.6	21.7	0.1	Negligible	Not significant
7-C-H190	Openshaw Campus, Whitworth Street, Manchester	17.7	17.9	0.2	Negligible	Not significant
7-C-H191	Ashton Old Road, Tameside	22.1	22.2	0.1	Negligible	Not significant
7-C-H192	Ashton Old Road, Manchester	26.4	26.4	< 0.1	Negligible	Not significant
7-C-H193	Abinger Road, Ashton-In-Makerfield	17.9	18.0	0.1	Negligible	Not significant
7-C-H194	Manchester Road, Audenshaw	21.4	21.5	0.1	Negligible	Not significant
7-C-H195	Greenwood Close, Audenshaw	19.8	19.7	-0.1	Negligible	Not significant
7-C-H196	Ashton Old Road, Manchester	20.9	21.1	0.2	Negligible	Not significant
7-C-H197	Manchester Road, Audenshaw	17.5	17.6	0.1	Negligible	Not significant
7-C-H198	Turing Close, Openshaw	22.7	23.0	0.3	Negligible	Not significant
7-C-H199	Falconwood Way, Manchester	21.0	21.4	0.4	Negligible	Not significant
7-C-H200	Turing Court, Manchester	22.1	22.4	0.3	Negligible	Not significant
7-C-H201	Oak House Surgery, Pottery Lane, Manchester	23.9	24.5	0.6	Negligible	Not significant
7-C-H202	Churchfield Walk, Manchester	21.1	21.4	0.3	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H203	Wilson Street, Manchester	19.7	19.6	-0.1	Negligible	Not significant
7-C-H204	Peacocks Nursery, Audenshaw	18.4	18.4	< 0.1	Negligible	Not significant
7-C-H205	Lumb Lane, Audenshaw	22.7	22.9	0.2	Negligible	Not significant
7-C-H206	Grey Mare Lane, Manchester	17.0	17.1	0.1	Negligible	Not significant
7-C-H207	Manchester Road, Audenshaw	24.1	24.4	0.3	Negligible	Not significant
7-C-H208	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	17.8	18.2	0.4	Negligible	Not significant
7-C-H209	Droysden Road, Manchester	22.2	22.4	0.2	Negligible	Not significant
7-C-H210	Droysden Road, Audenshaw	17.4	17.6	0.2	Negligible	Not significant
7-C-H211	Droysden Road, Audenshaw	20.5	20.7	0.2	Negligible	Not significant
7-C-H212	Ashton Road, Manchester	18.2	18.4	0.2	Negligible	Not significant
7-C-H213	Grey Mare Lane, Manchester	18.2	18.9	0.7	Negligible	Not significant
7-C-H214	Manchester Road, Manchester	19.3	19.6	0.3	Negligible	Not significant
7-C-H215	St Mary's Church of England Primary School, Church Street, Droysden, Manchester	18.5	18.7	0.2	Negligible	Not significant
7-C-H216	Birch Street, Ashton-under-lyme	20.4	20.4	< 0.1	Negligible	Not significant
7-C-H217	Grey Mare Lane, Manchester	17.4	17.9	0.5	Negligible	Not significant
7-C-H218	Manchester Road, Manchester	17.0	17.1	0.1	Negligible	Not significant
7-C-H219	Manchester Road Community Primary School, Droysden, Manchester	18.9	19.1	0.2	Negligible	Not significant
7-C-H220	Clayton Lane, Manchester	18.5	18.8	0.3	Negligible	Not significant
7-C-H221	Manchester Road, Manchester	21.2	21.4	0.2	Negligible	Not significant
7-C-H222	Ashton New Road, Manchester	17.8	17.9	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H223	Orme Close, Manchester	17.4	17.4	< 0.1	Negligible	Not significant
7-C-H224	Ashton New Road, Manchester	17.5	17.6	0.1	Negligible	Not significant
7-C-H225	Purslow Close, Manchester	16.8	16.8	< 0.1	Negligible	Not significant
7-C-H226	Braddon Street, Manchester	15.8	15.9	0.1	Negligible	Not significant
7-C-H227	Graham Street, Ashton-Under-Lyne	26.4	26.5	0.1	Negligible	Not significant
7-C-H228	Ashton New Road, Manchester	20.4	20.6	0.2	Negligible	Not significant
7-C-H229	Ashton New Road, Manchester	25.2	25.3	0.1	Negligible	Not significant
7-C-H230	Broxton Street, Manchester	20.6	20.2	-0.4	Negligible	Not significant
7-C-H231	Uxbridge Street, Ashton Under Lyne	16.6	16.6	< 0.1	Negligible	Not significant
7-C-H232	Bradford Road, Manchester	23.2	22.6	-0.6	Negligible	Not significant
7-C-H233	The Mews, Manchester	21.3	20.9	-0.4	Negligible	Not significant
7-C-H234	Back Lane, Ashton-Under-Lyne	17.8	17.9	0.1	Negligible	Not significant
7-C-H235	Back Lane, Littlemoss	24.5	24.6	0.1	Negligible	Not significant
7-C-H236	New Oak Close, Failsworth	22.0	22.1	0.1	Negligible	Not significant
7-C-H237	Roman Road, Oldham	22.0	22.1	0.1	Negligible	Not significant
7-C-H238	Roman Road, Oldham	22.1	22.1	< 0.1	Negligible	Not significant
7-C-H239	Roman Road, Oldham	33.9	34.1	0.2	Negligible	Not significant
7-C-H240	Clive Street, Oldham	27.0	27.2	0.2	Negligible	Not significant
7-C-H241	Bardsley Street, Oldham	24.7	24.8	0.1	Negligible	Not significant
7-C-H242	Whitegate End Primary School, Butterworth Lane, Oldham	16.4	16.4	< 0.1	Negligible	Not significant
7-C-H243	Chadderton, Oldham	21.9	22.0	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H244	St Margaret Mary Roman Catholic Primary School, St Margaret's Road, Manchester	22.7	22.8	0.1	Negligible	Not significant
7-C-H245	St Margaret's Road, Manchester	25.7	25.8	0.1	Negligible	Not significant
7-C-H246	Broadway, Oldham	25.3	25.5	0.2	Negligible	Not significant
7-C-H247	Chadderton, Oldham	24.4	24.7	0.3	Negligible	Not significant
7-C-H248	Chadderton, Oldham	21.2	21.3	0.1	Negligible	Not significant
7-C-H249	Kingfisher Special School, Foxdenton Lane, Chadderton, Oldham	17.9	18.0	0.1	Negligible	Not significant

Table 14: Predicted annual mean PM₁₀ concentrations and impacts (construction phase)

Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H001	Handforth, Wilmslow	9.9	9.9	< 0.1	Negligible	Not significant
7-C-H002	Longsight Lane, Cheadle Hulme	10.9	11.0	0.1	Negligible	Not significant
7-C-H003	Little Acorns Day Nursery, Handforth	10.9	10.9	< 0.1	Negligible	Not significant
7-C-H004	Stanley Road, Cheadle	10.8	10.8	< 0.1	Negligible	Not significant
7-C-H005	Stanley Road, Cheadle Hulme	11.5	11.5	< 0.1	Negligible	Not significant
7-C-H006	St James Catholic High School Building, Cheadle Hulme, Cheadle	11.4	11.5	0.1	Negligible	Not significant
7-C-H007	Regency Gardens, Cheadle Hulme	12.7	12.8	0.1	Negligible	Not significant
7-C-H008	Thorley Lane, Manchester	14.2	14.3	0.1	Negligible	Not significant
7-C-H009	Heald Green, Cheadle	11.5	11.6	0.1	Negligible	Not significant
7-C-H010	Rowarth Road, Manchester	14.6	14.7	0.1	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H011	Hurst Walk, Manchester	13.8	13.9	0.1	Negligible	Not significant
7-C-H012	Newall Road, Wythenshawe	11.9	11.9	< 0.1	Negligible	Not significant
7-C-H013	Kids Allowed Nursery, Cheadle Royal Business Park, Cheadle	11.4	11.4	< 0.1	Negligible	Not significant
7-C-H014	Newall Road, Manchester	11.3	11.3	< 0.1	Negligible	Not significant
7-C-H015	Peterswood Close, Manchester	14.5	14.5	< 0.1	Negligible	Not significant
7-C-H016	Barnacle Avenue, Manchester	11.2	11.2	< 0.1	Negligible	Not significant
7-C-H017	Newall Green High School, Wythenshawe	11.0	11.0	< 0.1	Negligible	Not significant
7-C-H018	Kingsway, Cheadle	13.7	13.8	0.1	Negligible	Not significant
7-C-H019	Piper Hill High School, Firbank Road	13.9	13.9	< 0.1	Negligible	Not significant
7-C-H020	Shawbury Road, Manchester	15.0	15.0	< 0.1	Negligible	Not significant
7-C-H021	Kingsway School, Foxley Road, Gatley	11.2	11.2	< 0.1	Negligible	Not significant
7-C-H022	Wythenshawe Hospital, Southmoor Road, Manchester	11.0	11.0	< 0.1	Negligible	Not significant
7-C-H023	Wythenshawe Hospital, Southmoor Road, Manchester	11.4	11.4	< 0.1	Negligible	Not significant
7-C-H024	Kingsway, Cheadle	14.5	14.6	0.1	Negligible	Not significant
7-C-H025	Fouracres Road, Manchester	11.3	11.4	0.1	Negligible	Not significant
7-C-H026	Kingsway, Cheadle	15.4	15.5	0.1	Negligible	Not significant
7-C-H027	Banbury Road, Manchester	11.5	11.6	0.1	Negligible	Not significant
7-C-H028	Greenwood Road, Wythenshawe	14.3	14.3	< 0.1	Negligible	Not significant
7-C-H029	Kingsway, Cheadle	15.3	15.4	0.1	Negligible	Not significant
7-C-H030	Benchill Primary School, Benchill Road, Wythenshawe	14.0	14.0	< 0.1	Negligible	Not significant
7-C-H031	Marchbank Drive, Cheadle	12.4	12.5	0.1	Negligible	Not significant
7-C-H032	Partridge Avenue, Wythenshawe	14.6	14.6	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H033	Calderbeck Way, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H034	Floatshall Road, Manchester	11.1	11.1	< 0.1	Negligible	Not significant
7-C-H035	Lauriston Close, Manchester	14.0	14.0	< 0.1	Negligible	Not significant
7-C-H036	Lorna Grove, Gatley, Cheadle	13.3	13.3	< 0.1	Negligible	Not significant
7-C-H037	Crossgate Avenue, Manchester	14.4	14.5	0.1	Negligible	Not significant
7-C-H038	Pendelbury Road, Gatley	13.1	13.1	< 0.1	Negligible	Not significant
7-C-H039	Booth Square, Cheadle	13.4	13.4	< 0.1	Negligible	Not significant
7-C-H040	Hearthstone Close, Cheadle	13.4	13.4	< 0.1	Negligible	Not significant
7-C-H041	Pendlebury Road, Gatley	13.5	13.6	0.1	Negligible	Not significant
7-C-H042	Parkwood Road, Manchester	14.7	14.8	0.1	Negligible	Not significant
7-C-H043	Altrincham Road, Altrincham	12.0	12.1	0.1	Negligible	Not significant
7-C-H044	Altrincham Road, Altrincham	11.6	11.6	< 0.1	Negligible	Not significant
7-C-H045	Abney Court Care Home, Abney Hall Park, Manchester Road, Cheadle	13.3	13.3	< 0.1	Negligible	Not significant
7-C-H046	Altrincham Road, Altrincham	11.6	11.6	< 0.1	Negligible	Not significant
7-C-H047	Beechpark Avenue, Wythenshawe	14.4	14.5	0.1	Negligible	Not significant
7-C-H048	Yarwood Avenue, Altrincham	11.7	11.7	< 0.1	Negligible	Not significant
7-C-H049	Merston Drive, Manchester	14.0	14.0	< 0.1	Negligible	Not significant
7-C-H050	Kenilworth Road, Stockport	14.3	14.3	< 0.1	Negligible	Not significant
7-C-H051	Bosley Road, Stockport	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H052	Kingsway, Manchester	14.9	14.9	< 0.1	Negligible	Not significant
7-C-H053	Brandon Avenue, Manchester	14.2	14.3	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H054	Kingsway, Manchester	14.2	14.2	< 0.1	Negligible	Not significant
7-C-H055	Ford Lane, Northenden, Manchester	13.5	13.6	0.1	Negligible	Not significant
7-C-H056	Brighton Road, Stockport	15.0	15.0	< 0.1	Negligible	Not significant
7-C-H057	Wilmslow Road, Manchester	14.1	14.2	0.1	Negligible	Not significant
7-C-H058	Heaton Lane, Stockport	14.8	14.8	< 0.1	Negligible	Not significant
7-C-H059	Palatine Road, Manchester	13.0	13.1	0.1	Negligible	Not significant
7-C-H060	Moor Lane, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H061	Fellpark Road, Manchester	13.2	13.3	0.1	Negligible	Not significant
7-C-H062	St Mary's Roman Catholic Primary School, Roman Road, Stockport	14.3	14.3	< 0.1	Negligible	Not significant
7-C-H063	Roman Road, Stockport	15.6	15.7	0.1	Negligible	Not significant
7-C-H064	Pepler Avenue, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H065	Palatine Road, Manchester (Compound)	12.3	12.4	0.1	Negligible	Not significant
7-C-H066	Rowdell Walk, Manchester	13.2	13.2	< 0.1	Negligible	Not significant
7-C-H067	Queensway, Manchester	12.8	12.8	< 0.1	Negligible	Not significant
7-C-H068	Penny Lane, Stockport	14.3	14.3	< 0.1	Negligible	Not significant
7-C-H069	Kingsway, Manchester	13.2	13.2	< 0.1	Negligible	Not significant
7-C-H070	Clarkethrone Terrace, Stockport	12.6	12.7	0.1	Negligible	Not significant
7-C-H071	St Anns Street, Sale	13.4	13.5	0.1	Negligible	Not significant
7-C-H072	Brinnington Road, Stockport	14.3	14.3	< 0.1	Negligible	Not significant
7-C-H073	Bury Street, Stockport	14.1	14.0	-0.1	Negligible	Not significant
7-C-H074	Princess Road, Manchester	13.2	13.3	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H075	Wythenshawe Road, Sale	13.9	14.0	0.1	Negligible	Not significant
7-C-H076	Fog Lane, Manchester	12.6	12.6	< 0.1	Negligible	Not significant
7-C-H077	Portswood Nursery School, Stockport	14.8	14.8	< 0.1	Negligible	Not significant
7-C-H078	Kingsway, Manchester	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H079	Princess Road, Manchester	13.3	13.3	< 0.1	Negligible	Not significant
7-C-H080	Brindale Road, Stockport	14.1	14.1	< 0.1	Negligible	Not significant
7-C-H081	Kingsway, Manchester	12.4	12.4	< 0.1	Negligible	Not significant
7-C-H082	St. Ambrose Roman Catholic Primary School, Princess Road, Manchester	15.4	15.4	< 0.1	Negligible	Not significant
7-C-H083	Riding Close, Sale	13.8	13.8	< 0.1	Negligible	Not significant
7-C-H084	Ambrose Gardens, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H085	Kingsway, Manchester	12.8	12.8	< 0.1	Negligible	Not significant
7-C-H086	Rutland Lane, Sale	13.6	13.6	< 0.1	Negligible	Not significant
7-C-H087	Kids Allowed Nursery, Christie Way, Manchester	13.8	13.8	< 0.1	Negligible	Not significant
7-C-H088	Kingsway, Manchester	12.6	12.6	< 0.1	Negligible	Not significant
7-C-H089	Derwent Avenue, Manchester	11.8	11.9	0.1	Negligible	Not significant
7-C-H090	Kingsway, Manchester	12.9	13.0	0.1	Negligible	Not significant
7-C-H091	Lynway Drive, Manchester (Compound)	11.3	11.3	< 0.1	Negligible	Not significant
7-C-H092	Stapeford Close, Sale	13.5	13.5	< 0.1	Negligible	Not significant
7-C-H093	Appleton Lodge Care Home, Stockport	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H094	Wilmslow Road, Manchester (Compound)	11.9	12.0	0.1	Negligible	Not significant
7-C-H095	Cross Street, Sale	13.2	13.2	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H096	Barlow Terrace, Manchester	11.5	11.5	< 0.1	Negligible	Not significant
7-C-H097	Arnesby Avenue, Sale	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H098	Rutland Crescent, Stockport	13.9	13.9	< 0.1	Negligible	Not significant
7-C-H099	Kingsway, Manchester	12.5	12.5	< 0.1	Negligible	Not significant
7-C-H100	Newhaven Road, Stockport	14.0	14.0	< 0.1	Negligible	Not significant
7-C-H101	Maple Court Cross Street, Sale	13.9	14.0	0.1	Negligible	Not significant
7-C-H102	Barlow Moore Road, Manchester	11.6	11.6	< 0.1	Negligible	Not significant
7-C-H103	Cross Street, Sale	14.8	14.9	0.1	Negligible	Not significant
7-C-H104	Barlow Moore Road, Manchester	12.1	12.2	0.1	Negligible	Not significant
7-C-H105	Kingsway, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H106	Barlow Moor Road, Manchester	11.7	11.7	< 0.1	Negligible	Not significant
7-C-H107	Mauldeath Road, Manchester	12.6	12.6	< 0.1	Negligible	Not significant
7-C-H108	Rainbows Nursery, Manchester	13.4	13.5	0.1	Negligible	Not significant
7-C-H109	Princess Road, Manchester	12.8	12.8	< 0.1	Negligible	Not significant
7-C-H110	Kingsway, Manchester	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H111	Kingsway, Manchester	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H112	Princess Road, Manchester	13.1	13.1	< 0.1	Negligible	Not significant
7-C-H113	Princess Road, Withington	13.4	13.4	< 0.1	Negligible	Not significant
7-C-H114	Torbay Road, Urmston	12.2	12.2	< 0.1	Negligible	Not significant
7-C-H115	Moseley Road, Manchester	13.9	13.9	< 0.1	Negligible	Not significant
7-C-H116	Hawthorn Medical Centre, Manchester	14.5	14.6	0.1	Negligible	Not significant
7-C-H117	Birchfields Road, Manchester	13.5	13.5	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H118	Wilbraham Road, Manchester	13.5	13.5	< 0.1	Negligible	Not significant
7-C-H119	Wilbraham Road, Manchester	12.6	12.7	0.1	Negligible	Not significant
7-C-H120	Wilbraham Road, Manchester	13.9	14.0	0.1	Negligible	Not significant
7-C-H121	Lloyd Street South, Manchester	13.0	13.1	0.1	Negligible	Not significant
7-C-H122	Birchfields Primary School, Lytham Road, Manchester	12.8	12.9	0.1	Negligible	Not significant
7-C-H123	Auburn Drive, Urmston	15.3	15.3	< 0.1	Negligible	Not significant
7-C-H124	Birchfields Road, Manchester	12.9	13.0	0.1	Negligible	Not significant
7-C-H125	Birchfields Road, Manchester	13.1	13.1	< 0.1	Negligible	Not significant
7-C-H126	Highfield Primary School, Bridgenorth Avenue, Manchester	14.5	14.6	0.1	Negligible	Not significant
7-C-H127	Park Road, Stretford	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H128	Manchester Grammar School, Birch Hall Lane, Manchester	12.2	12.2	< 0.1	Negligible	Not significant
7-C-H129	St Anthony's Roman Catholic School, Bradfield Road, Manchester	14.2	14.2	< 0.1	Negligible	Not significant
7-C-H130	Birchfields Road, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H131	Park Road, Stretford	13.4	13.5	0.1	Negligible	Not significant
7-C-H132	Birch Hall Lane, Manchester	13.4	13.4	< 0.1	Negligible	Not significant
7-C-H133	Little Petals Day Nursery, Derbyshire Lane, Manchester	13.0	13.1	0.1	Negligible	Not significant
7-C-H134	Derbyshire Lane, Stretford	12.5	12.6	0.1	Negligible	Not significant
7-C-H135	Thompson Close, Denton	14.9	14.9	< 0.1	Negligible	Not significant
7-C-H136	Birchfields Road, Manchester	13.5	13.5	< 0.1	Negligible	Not significant
7-C-H137	Birchfields Road, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H138	Anson Road, Manchester	14.0	14.1	0.1	Negligible	Not significant
7-C-H139	Anson Road, Manchester	12.7	12.7	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H140	Anson Road, Manchester	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H141	Dorchester Avenue, Urmston	16.3	16.4	0.1	Negligible	Not significant
7-C-H142	Stanley Road, Denton	13.1	13.1	< 0.1	Negligible	Not significant
7-C-H143	Anson Road, Manchester	12.8	12.9	0.1	Negligible	Not significant
7-C-H144	Anson Road, Manchester	12.5	12.5	< 0.1	Negligible	Not significant
7-C-H145	Barton Road, Stretford	15.0	15.1	0.1	Negligible	Not significant
7-C-H146	Victoria Nursing Home, Anson Road, Manchester	12.6	12.6	< 0.1	Negligible	Not significant
7-C-H147	Kingsway Primary School, Kingsway Park, Urmston	15.1	15.1	< 0.1	Negligible	Not significant
7-C-H148	Anson Road, Manchester	13.2	13.2	< 0.1	Negligible	Not significant
7-C-H149	Upper Brooke Street, Manchester	12.4	12.4	< 0.1	Negligible	Not significant
7-C-H150	Barton Clough Primary School Building, Audley Avenue, Stretford, Manchester	13.9	14.0	0.1	Negligible	Not significant
7-C-H151	Hathersage Road, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H152	Upper Brook Street, Manchester	13.5	13.5	< 0.1	Negligible	Not significant
7-C-H153	Hyde Road, Manchester	13.9	14.0	0.1	Negligible	Not significant
7-C-H154	Bent Terrace, Urmston	13.4	13.5	0.1	Negligible	Not significant
7-C-H155	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	12.7	12.7	< 0.1	Negligible	Not significant
7-C-H156	Kirkmanshulme Lane, Manchester	13.1	13.1	< 0.1	Negligible	Not significant
7-C-H157	Kirkmanshulme Lane, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H158	Iona Way, Manchester	14.7	14.7	< 0.1	Negligible	Not significant
7-C-H159	Benbecula Way, Manchester	15.4	15.4	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H160	Wellington Street, Manchester	12.6	12.7	0.1	Negligible	Not significant
7-C-H161	Millwall Close, Manchester	12.5	12.5	< 0.1	Negligible	Not significant
7-C-H162	Stroma Gardens, Manchester	15.3	15.3	< 0.1	Negligible	Not significant
7-C-H163	Chapman Street, Manchester	13.2	13.3	0.1	Negligible	Not significant
7-C-H164	Chapman Street, Manchester	13.1	13.1	< 0.1	Negligible	Not significant
7-C-H165	Hyde Road, Manchester	14.4	14.5	0.1	Negligible	Not significant
7-C-H166	Lawnswood Road, Manchester	13.7	13.8	0.1	Negligible	Not significant
7-C-H167	All Saints Primary School, Belle Vue Street, Manchester	12.5	12.6	0.1	Negligible	Not significant
7-C-H168	Sharnford Square, Manchester	12.5	12.6	0.1	Negligible	Not significant
7-C-H169	All Saints Primary School, Belle Vue Street, Manchester	12.7	12.8	0.1	Negligible	Not significant
7-C-H170	Kids Allowed Nursery, Old Park Lane, Urmston	14.2	14.2	< 0.1	Negligible	Not significant
7-C-H171	Wenlock Way, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H172	Nicholls Campus, Hyde Road, Ardwick	13.5	13.6	0.1	Negligible	Not significant
7-C-H173	Gorton Lane, Manchester	13.7	13.8	0.1	Negligible	Not significant
7-C-H174	Wenlock Way, Manchester	14.2	14.3	0.1	Negligible	Not significant
7-C-H175	Wenlock Way, Manchester	13.7	13.8	0.1	Negligible	Not significant
7-C-H176	Gorton Lane, Manchester	13.2	13.3	0.1	Negligible	Not significant
7-C-H177	Cornwall Street, Manchester	13.1	13.2	0.1	Negligible	Not significant
7-C-H178	Audenshaw Community Primary School, Ash Street, Audenshaw	14.1	14.1	< 0.1	Negligible	Not significant
7-C-H179	Abinger Road, Ashton-In-Makerfield	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H180	Ashton Old Road, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H181	Ashton Old Road, Manchester	13.7	13.7	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H182	Abbey Hey Lane, Manchester	13.0	13.1	0.1	Negligible	Not significant
7-C-H183	Trafalgar Avenue, Audenshaw	15.8	15.8	< 0.1	Negligible	Not significant
7-C-H184	Erin Street, Manchester	13.2	13.2	< 0.1	Negligible	Not significant
7-C-H185	Varna Community Primary School, Chisholm Street, Openshaw	12.6	12.6	< 0.1	Negligible	Not significant
7-C-H186	Old Ashton Road, Manchester	14.3	14.4	0.1	Negligible	Not significant
7-C-H187	Spring Bank Avenue, Audenshaw	14.5	14.5	< 0.1	Negligible	Not significant
7-C-H188	Ashton Old Road, Openshaw	13.8	13.8	< 0.1	Negligible	Not significant
7-C-H189	Ashton Old Road, Tameside	13.2	13.2	< 0.1	Negligible	Not significant
7-C-H190	Openshaw Campus, Whitworth Street, Manchester	12.3	12.4	0.1	Negligible	Not significant
7-C-H191	Ashton Old Road, Tameside	13.3	13.3	< 0.1	Negligible	Not significant
7-C-H192	Ashton Old Road, Manchester	14.3	14.3	< 0.1	Negligible	Not significant
7-C-H193	Abinger Road, Ashton-In-Makerfield	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H194	Manchester Road, Audenshaw	13.7	13.8	0.1	Negligible	Not significant
7-C-H195	Greenwood Close, Audenshaw	13.5	13.5	< 0.1	Negligible	Not significant
7-C-H196	Ashton Old Road, Manchester	13.1	13.2	0.1	Negligible	Not significant
7-C-H197	Manchester Road, Audenshaw	12.9	13.0	0.1	Negligible	Not significant
7-C-H198	Turing Close, Openshaw	13.4	13.5	0.1	Negligible	Not significant
7-C-H199	Falconwood Way, Manchester	13.1	13.2	0.1	Negligible	Not significant
7-C-H200	Turing Court, Manchester	13.3	13.4	0.1	Negligible	Not significant
7-C-H201	Oak House Surgery, Pottery Lane, Manchester	13.8	13.9	0.1	Negligible	Not significant
7-C-H202	Churchfield Walk, Manchester	13.1	13.2	0.1	Negligible	Not significant
7-C-H203	Wilson Street, Manchester	12.8	12.8	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H204	Peacocks Nursery, Audenshaw	14.2	14.2	< 0.1	Negligible	Not significant
7-C-H205	Lumb Lane, Audenshaw	15.2	15.2	< 0.1	Negligible	Not significant
7-C-H206	Grey Mare Lane, Manchester	12.2	12.2	< 0.1	Negligible	Not significant
7-C-H207	Manchester Road, Audenshaw	15.4	15.4	< 0.1	Negligible	Not significant
7-C-H208	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	12.4	12.5	0.1	Negligible	Not significant
7-C-H209	Droysden Road, Manchester	15.0	15.1	0.1	Negligible	Not significant
7-C-H210	Droysden Road, Audenshaw	12.7	12.8	0.1	Negligible	Not significant
7-C-H211	Droysden Road, Audenshaw	13.5	13.5	< 0.1	Negligible	Not significant
7-C-H212	Ashton Road, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-C-H213	Grey Mare Lane, Manchester	12.1	12.3	0.2	Negligible	Not significant
7-C-H214	Manchester Road, Manchester	13.1	13.2	0.1	Negligible	Not significant
7-C-H215	St Mary's Church of England Primary School, Church Street, Droysden, Manchester	13.0	13.0	< 0.1	Negligible	Not significant
7-C-H216	Birch Street, Ashton-under-lyme	15.2	15.2	< 0.1	Negligible	Not significant
7-C-H217	Grey Mare Lane, Manchester	11.9	12.1	0.2	Negligible	Not significant
7-C-H218	Manchester Road, Manchester	12.5	12.5	< 0.1	Negligible	Not significant
7-C-H219	Manchester Road Community Primary School, Droysden, Manchester	12.8	12.9	0.1	Negligible	Not significant
7-C-H220	Clayton Lane, Manchester	12.2	12.3	0.1	Negligible	Not significant
7-C-H221	Manchester Road, Manchester	13.3	13.4	0.1	Negligible	Not significant
7-C-H222	Ashton New Road, Manchester	12.4	12.4	< 0.1	Negligible	Not significant
7-C-H223	Orme Close, Manchester	12.1	12.1	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H224	Ashton New Road, Manchester	12.3	12.3	< 0.1	Negligible	Not significant
7-C-H225	Purslow Close, Manchester	12.0	12.0	< 0.1	Negligible	Not significant
7-C-H226	Braddon Street, Manchester	11.9	11.9	< 0.1	Negligible	Not significant
7-C-H227	Graham Street, Ashton-Under-Lyne	16.4	16.4	< 0.1	Negligible	Not significant
7-C-H228	Ashton New Road, Manchester	13.0	13.1	0.1	Negligible	Not significant
7-C-H229	Ashton New Road, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-C-H230	Broxton Street, Manchester	12.7	12.6	-0.1	Negligible	Not significant
7-C-H231	Uxbridge Street, Ashton Under Lyne	12.3	12.3	< 0.1	Negligible	Not significant
7-C-H232	Bradford Road, Manchester	13.3	13.2	-0.1	Negligible	Not significant
7-C-H233	The Mews, Manchester	12.8	12.7	-0.1	Negligible	Not significant
7-C-H234	Back Lane, Ashton-Under-Lyne	11.8	11.8	< 0.1	Negligible	Not significant
7-C-H235	Back Lane, Littlemoss	13.9	14.0	0.1	Negligible	Not significant
7-C-H236	New Oak Close, Failsworth	13.6	13.6	< 0.1	Negligible	Not significant
7-C-H237	Roman Road, Oldham	15.0	15.0	< 0.1	Negligible	Not significant
7-C-H238	Roman Road, Oldham	15.1	15.1	< 0.1	Negligible	Not significant
7-C-H239	Roman Road, Oldham	16.8	16.8	< 0.1	Negligible	Not significant
7-C-H240	Clive Street, Oldham	15.8	15.8	< 0.1	Negligible	Not significant
7-C-H241	Bardsley Street, Oldham	13.9	13.9	< 0.1	Negligible	Not significant
7-C-H242	Whitegate End Primary School, Butterworth Lane, Oldham	14.2	14.2	< 0.1	Negligible	Not significant
7-C-H243	Chadderton, Oldham	15.2	15.2	< 0.1	Negligible	Not significant
7-C-H244	St Margaret Mary Roman Catholic Primary School, St Margaret's Road, Manchester	13.5	13.5	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H245	St Margaret's Road, Manchester	13.9	13.9	< 0.1	Negligible	Not significant
7-C-H246	Broadway, Oldham	16.0	16.1	0.1	Negligible	Not significant
7-C-H247	Chadderton, Oldham	16.3	16.4	0.1	Negligible	Not significant
7-C-H248	Chadderton, Oldham	15.3	15.3	< 0.1	Negligible	Not significant
7-C-H249	Kingfisher Special School, Foxdenton Lane, Chadderton, Oldham	12.0	12.1	0.1	Negligible	Not significant

Table 15: Predicted annual mean PM_{2.5} concentrations and impacts (construction phase)

Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H001	Handforth, Wilmslow	6.7	6.7	< 0.1	Negligible	Not significant
7-C-H002	Longsight Lane, Cheadle Hulme	7.2	7.2	< 0.1	Negligible	Not significant
7-C-H003	Little Acorns Day Nursery, Handforth	7.2	7.2	< 0.1	Negligible	Not significant
7-C-H004	Stanley Road, Cheadle	7.1	7.1	< 0.1	Negligible	Not significant
7-C-H005	Stanley Road, Cheadle Hulme	7.5	7.5	< 0.1	Negligible	Not significant
7-C-H006	St James Catholic High School Building, Cheadle Hulme, Cheadle	7.5	7.5	< 0.1	Negligible	Not significant
7-C-H007	Regency Gardens, Cheadle Hulme	8.2	8.3	0.1	Negligible	Not significant
7-C-H008	Thorley Lane, Manchester	9.0	9.1	0.1	Negligible	Not significant
7-C-H009	Heald Green, Cheadle	7.6	7.6	< 0.1	Negligible	Not significant
7-C-H010	Rowarth Road, Manchester	9.3	9.4	0.1	Negligible	Not significant
7-C-H011	Hurst Walk, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H012	Newall Road, Wythenshawe	7.8	7.8	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H013	Kids Allowed Nursery, Cheadle Royal Business Park, Cheadle	7.6	7.6	< 0.1	Negligible	Not significant
7-C-H014	Newall Road, Manchester	7.5	7.5	< 0.1	Negligible	Not significant
7-C-H015	Peterswood Close, Manchester	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H016	Barnacle Avenue, Manchester	7.4	7.4	< 0.1	Negligible	Not significant
7-C-H017	Newall Green High School, Wythenshawe	7.3	7.3	< 0.1	Negligible	Not significant
7-C-H018	Kingsway, Cheadle	8.8	8.9	0.1	Negligible	Not significant
7-C-H019	Piper Hill High School, Firbank Road	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H020	Shawbury Road, Manchester	9.6	9.7	0.1	Negligible	Not significant
7-C-H021	Kingsway School, Foxley Road, Gatley	7.4	7.5	0.1	Negligible	Not significant
7-C-H022	Wythenshawe Hospital, Southmoor Road, Manchester	7.3	7.3	< 0.1	Negligible	Not significant
7-C-H023	Wythenshawe Hospital, Southmoor Road, Manchester	7.6	7.6	< 0.1	Negligible	Not significant
7-C-H024	Kingsway, Cheadle	9.4	9.4	< 0.1	Negligible	Not significant
7-C-H025	Fouracres Road, Manchester	7.6	7.6	< 0.1	Negligible	Not significant
7-C-H026	Kingsway, Cheadle	9.9	9.9	< 0.1	Negligible	Not significant
7-C-H027	Banbury Road, Manchester	7.7	7.7	< 0.1	Negligible	Not significant
7-C-H028	Greenwood Road, Wythenshawe	9.2	9.2	< 0.1	Negligible	Not significant
7-C-H029	Kingsway, Cheadle	9.8	9.9	0.1	Negligible	Not significant
7-C-H030	Benchill Primary School, Benchill Road, Wythenshawe	9.0	9.1	0.1	Negligible	Not significant
7-C-H031	Marchbank Drive, Cheadle	8.2	8.3	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H032	Partridge Avenue, Wythenshawe	9.4	9.4	< 0.1	Negligible	Not significant
7-C-H033	Calderbeck Way, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H034	Floatshall Road, Manchester	7.4	7.5	0.1	Negligible	Not significant
7-C-H035	Lauriston Close, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H036	Lorna Grove, Gatley, Cheadle	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H037	Crossgate Avenue, Manchester	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H038	Pendelbury Road, Gatley	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H039	Booth Square, Cheadle	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H040	Hearthstone Close, Cheadle	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H041	Pendlebury Road, Gatley	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H042	Parkwood Road, Manchester	9.5	9.5	< 0.1	Negligible	Not significant
7-C-H043	Altrincham Road, Altrincham	7.9	8.0	0.1	Negligible	Not significant
7-C-H044	Altrincham Road, Altrincham	7.7	7.7	< 0.1	Negligible	Not significant
7-C-H045	Abney Court Care Home, Abney Hall Park, Manchester Road, Cheadle	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H046	Altrincham Road, Altrincham	7.7	7.7	< 0.1	Negligible	Not significant
7-C-H047	Beechpark Avenue, Wythenshawe	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H048	Yarwood Avenue, Altrincham	7.7	7.7	< 0.1	Negligible	Not significant
7-C-H049	Merston Drive, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H050	Kenilworth Road, Stockport	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H051	Bosley Road, Stockport	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H052	Kingsway, Manchester	9.5	9.5	< 0.1	Negligible	Not significant
7-C-H053	Brandon Avenue, Manchester	9.2	9.2	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H054	Kingsway, Manchester	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H055	Ford Lane, Northenden, Manchester	8.8	8.9	0.1	Negligible	Not significant
7-C-H056	Brighton Road, Stockport	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H057	Wilmslow Road, Manchester	9.2	9.2	< 0.1	Negligible	Not significant
7-C-H058	Heaton Lane, Stockport	9.6	9.6	< 0.1	Negligible	Not significant
7-C-H059	Palatine Road, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H060	Moor Lane, Manchester	8.4	8.5	0.1	Negligible	Not significant
7-C-H061	Fellpark Road, Manchester	8.6	8.7	0.1	Negligible	Not significant
7-C-H062	St Mary's Roman Catholic Primary School, Roman Road, Stockport	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H063	Roman Road, Stockport	10.2	10.2	< 0.1	Negligible	Not significant
7-C-H064	Pepler Avenue, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H065	Palatine Road, Manchester (Compound)	8.0	8.1	0.1	Negligible	Not significant
7-C-H066	Rowdell Walk, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H067	Queensway, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H068	Penny Lane, Stockport	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H069	Kingsway, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H070	Clarkethrone Terrace, Stockport	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H071	St Anns Street, Sale	8.8	8.9	0.1	Negligible	Not significant
7-C-H072	Brinnington Road, Stockport	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H073	Bury Street, Stockport	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H074	Princess Road, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H075	Wythenshawe Road, Sale	9.1	9.2	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H076	Fog Lane, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H077	Portswood Nursery School, Stockport	9.6	9.6	< 0.1	Negligible	Not significant
7-C-H078	Kingsway, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H079	Princess Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H080	Brindale Road, Stockport	9.2	9.2	< 0.1	Negligible	Not significant
7-C-H081	Kingsway, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H082	St. Ambrose Roman Catholic Primary School, Princess Road, Manchester	9.7	9.8	0.1	Negligible	Not significant
7-C-H083	Riding Close, Sale	9.1	9.2	0.1	Negligible	Not significant
7-C-H084	Ambrose Gardens, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H085	Kingsway, Manchester	8.5	8.6	0.1	Negligible	Not significant
7-C-H086	Rutland Lane, Sale	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H087	Kids Allowed Nursery, Christie Way, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H088	Kingsway, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H089	Derwent Avenue, Manchester	7.8	7.8	< 0.1	Negligible	Not significant
7-C-H090	Kingsway, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H091	Lynway Drive, Manchester (Compound)	7.6	7.6	< 0.1	Negligible	Not significant
7-C-H092	Stapeford Close, Sale	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H093	Appleton Lodge Care Home, Stockport	8.8	8.9	0.1	Negligible	Not significant
7-C-H094	Wilmslow Road, Manchester (Compound)	8.0	8.0	< 0.1	Negligible	Not significant
7-C-H095	Cross Street, Sale	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H096	Barlow Terrace, Manchester	7.6	7.6	< 0.1	Negligible	Not significant
7-C-H097	Arnesby Avenue, Sale	8.8	8.8	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H098	Rutland Crescent, Stockport	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H099	Kingsway, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H100	Newhaven Road, Stockport	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H101	Maple Court Cross Street, Sale	9.1	9.2	0.1	Negligible	Not significant
7-C-H102	Barlow Moore Road, Manchester	7.7	7.7	< 0.1	Negligible	Not significant
7-C-H103	Cross Street, Sale	9.6	9.6	< 0.1	Negligible	Not significant
7-C-H104	Barlow Moore Road, Manchester	8.0	8.0	< 0.1	Negligible	Not significant
7-C-H105	Kingsway, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H106	Barlow Moor Road, Manchester	7.7	7.8	0.1	Negligible	Not significant
7-C-H107	Mauldeath Road, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H108	Rainbows Nursery, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H109	Princess Road, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H110	Kingsway, Manchester	8.8	8.9	0.1	Negligible	Not significant
7-C-H111	Kingsway, Manchester	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H112	Princess Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H113	Princess Road, Withington	8.7	8.8	0.1	Negligible	Not significant
7-C-H114	Torbay Road, Urmston	7.9	7.9	< 0.1	Negligible	Not significant
7-C-H115	Moseley Road, Manchester	9.4	9.4	< 0.1	Negligible	Not significant
7-C-H116	Hawthorn Medical Centre, Manchester	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H117	Birchfields Road, Manchester	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H118	Wilbraham Road, Manchester	8.8	8.9	0.1	Negligible	Not significant
7-C-H119	Wilbraham Road, Manchester	8.5	8.6	0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H120	Wilbraham Road, Manchester	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H121	Lloyd Street South, Manchester	8.7	8.8	0.1	Negligible	Not significant
7-C-H122	Birchfields Primary School, Lytham Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H123	Auburn Drive, Urmston	9.9	10.0	0.1	Negligible	Not significant
7-C-H124	Birchfields Road, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H125	Birchfields Road, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H126	Highfield Primary School, Bridgenorth Avenue, Manchester	9.5	9.5	< 0.1	Negligible	Not significant
7-C-H127	Park Road, Stretford	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H128	Manchester Grammar School, Birch Hall Lane, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-C-H129	St Anthony's Roman Catholic School, Bradfield Road, Manchester	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H130	Birchfields Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H131	Park Road, Stretford	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H132	Birch Hall Lane, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H133	Little Petals Day Nursery, Derbyshire Lane, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H134	Derbyshire Lane, Stretford	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H135	Thompson Close, Denton	9.6	9.6	< 0.1	Negligible	Not significant
7-C-H136	Birchfields Road, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H137	Birchfields Road, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H138	Anson Road, Manchester	9.2	9.2	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H139	Anson Road, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H140	Anson Road, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H141	Dorchester Avenue, Urmston	10.5	10.6	0.1	Negligible	Not significant
7-C-H142	Stanley Road, Denton	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H143	Anson Road, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H144	Anson Road, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-C-H145	Barton Road, Stretford	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H146	Victoria Nursing Home, Anson Road, Manchester	8.3	8.3	< 0.1	Negligible	Not significant
7-C-H147	Kingsway Primary School, Kingsway Park, Urmston	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H148	Anson Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H149	Upper Brooke Street, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-C-H150	Barton Clough Primary School Building, Audley Avenue, Stretford, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H151	Hathersage Road, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H152	Upper Brook Street, Manchester	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H153	Hyde Road, Manchester	9.5	9.5	< 0.1	Negligible	Not significant
7-C-H154	Bent Terrace, Urmston	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H155	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H156	Kirkmanshulme Lane, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H157	Kirkmanshulme Lane, Manchester	8.5	8.5	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H158	Iona Way, Manchester	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H159	Benbecula Way, Manchester	9.9	9.9	< 0.1	Negligible	Not significant
7-C-H160	Wellington Street, Manchester	8.6	8.7	0.1	Negligible	Not significant
7-C-H161	Millwall Close, Manchester	8.5	8.6	0.1	Negligible	Not significant
7-C-H162	Stroma Gardens, Manchester	9.8	9.8	< 0.1	Negligible	Not significant
7-C-H163	Chapman Street, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H164	Chapman Street, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H165	Hyde Road, Manchester	9.3	9.4	0.1	Negligible	Not significant
7-C-H166	Lawnswood Road, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H167	All Saints Primary School, Belle Vue Street, Manchester	8.3	8.3	< 0.1	Negligible	Not significant
7-C-H168	Sharnford Square, Manchester	8.3	8.3	< 0.1	Negligible	Not significant
7-C-H169	All Saints Primary School, Belle Vue Street, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H170	Kids Allowed Nursery, Old Park Lane, Urmston	9.2	9.2	< 0.1	Negligible	Not significant
7-C-H171	Wenlock Way, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H172	Nicholls Campus, Hyde Road, Ardwick	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H173	Gorton Lane, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H174	Wenlock Way, Manchester	9.2	9.3	0.1	Negligible	Not significant
7-C-H175	Wenlock Way, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H176	Gorton Lane, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H177	Cornwall Street, Manchester	8.7	8.7	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H178	Audenshaw Community Primary School, Ash Street, Audenshaw	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H179	Abinger Road, Ashton-In-Makerfield	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H180	Ashton Old Road, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H181	Ashton Old Road, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H182	Abbey Hey Lane, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H183	Trafalgar Avenue, Audenshaw	10.1	10.1	< 0.1	Negligible	Not significant
7-C-H184	Erin Street, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H185	Varna Community Primary School, Chisholm Street, Openshaw	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H186	Old Ashton Road, Manchester	9.6	9.6	< 0.1	Negligible	Not significant
7-C-H187	Spring Bank Avenue, Audenshaw	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H188	Ashton Old Road, Openshaw	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H189	Ashton Old Road, Tameside	8.7	8.8	0.1	Negligible	Not significant
7-C-H190	Openshaw Campus, Whitworth Street, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-C-H191	Ashton Old Road, Tameside	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H192	Ashton Old Road, Manchester	9.4	9.4	< 0.1	Negligible	Not significant
7-C-H193	Abinger Road, Ashton-In-Makerfield	8.6	8.6	< 0.1	Negligible	Not significant
7-C-H194	Manchester Road, Audenshaw	9.0	9.1	0.1	Negligible	Not significant
7-C-H195	Greenwood Close, Audenshaw	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H196	Ashton Old Road, Manchester	8.6	8.7	0.1	Negligible	Not significant
7-C-H197	Manchester Road, Audenshaw	8.6	8.6	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H198	Turing Close, Openshaw	8.8	8.9	0.1	Negligible	Not significant
7-C-H199	Falconwood Way, Manchester	8.6	8.7	0.1	Negligible	Not significant
7-C-H200	Turing Court, Manchester	8.7	8.8	0.1	Negligible	Not significant
7-C-H201	Oak House Surgery, Pottery Lane, Manchester	9.0	9.1	0.1	Negligible	Not significant
7-C-H202	Churchfield Walk, Manchester	8.6	8.7	0.1	Negligible	Not significant
7-C-H203	Wilson Street, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-C-H204	Peacocks Nursery, Audenshaw	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H205	Lumb Lane, Audenshaw	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H206	Grey Mare Lane, Manchester	8.1	8.1	< 0.1	Negligible	Not significant
7-C-H207	Manchester Road, Audenshaw	9.8	9.8	< 0.1	Negligible	Not significant
7-C-H208	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	8.2	8.3	0.1	Negligible	Not significant
7-C-H209	Droysden Road, Manchester	9.6	9.6	< 0.1	Negligible	Not significant
7-C-H210	Droysden Road, Audenshaw	8.7	8.7	< 0.1	Negligible	Not significant
7-C-H211	Droysden Road, Audenshaw	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H212	Ashton Road, Manchester	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H213	Grey Mare Lane, Manchester	8.0	8.1	0.1	Negligible	Not significant
7-C-H214	Manchester Road, Manchester	8.9	9.0	0.1	Negligible	Not significant
7-C-H215	St Mary's Church of England Primary School, Church Street, Droysden, Manchester	8.8	8.9	0.1	Negligible	Not significant
7-C-H216	Birch Street, Ashton-under-lyme	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H217	Grey Mare Lane, Manchester	7.9	8.0	0.1	Negligible	Not significant
7-C-H218	Manchester Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H219	Manchester Road Community Primary School, Droylsden, Manchester	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H220	Clayton Lane, Manchester	8.1	8.1	< 0.1	Negligible	Not significant
7-C-H221	Manchester Road, Manchester	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H222	Ashton New Road, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H223	Orme Close, Manchester	7.9	7.9	< 0.1	Negligible	Not significant
7-C-H224	Ashton New Road, Manchester	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H225	Purslow Close, Manchester	7.8	7.8	< 0.1	Negligible	Not significant
7-C-H226	Braddon Street, Manchester	8.1	8.1	< 0.1	Negligible	Not significant
7-C-H227	Graham Street, Ashton-Under-Lyne	10.4	10.4	< 0.1	Negligible	Not significant
7-C-H228	Ashton New Road, Manchester	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H229	Ashton New Road, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H230	Broxton Street, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-C-H231	Uxbridge Street, Ashton Under Lyne	8.4	8.4	< 0.1	Negligible	Not significant
7-C-H232	Bradford Road, Manchester	8.6	8.5	-0.1	Negligible	Not significant
7-C-H233	The Mews, Manchester	8.3	8.2	-0.1	Negligible	Not significant
7-C-H234	Back Lane, Ashton-Under-Lyne	7.9	7.9	< 0.1	Negligible	Not significant
7-C-H235	Back Lane, Littlemoss	9.1	9.1	< 0.1	Negligible	Not significant
7-C-H236	New Oak Close, Failsworth	8.9	8.9	< 0.1	Negligible	Not significant
7-C-H237	Roman Road, Oldham	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H238	Roman Road, Oldham	9.7	9.7	< 0.1	Negligible	Not significant
7-C-H239	Roman Road, Oldham	10.8	10.8	< 0.1	Negligible	Not significant
7-C-H240	Clive Street, Oldham	10.1	10.1	< 0.1	Negligible	Not significant

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		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
7-C-H241	Bardsley Street, Oldham	9.3	9.3	< 0.1	Negligible	Not significant
7-C-H242	Whitegate End Primary School, Butterworth Lane, Oldham	9.2	9.2	< 0.1	Negligible	Not significant
7-C-H243	Chadderton, Oldham	9.8	9.8	< 0.1	Negligible	Not significant
7-C-H244	St Margaret Mary Roman Catholic Primary School, St Margaret's Road, Manchester	8.8	8.8	< 0.1	Negligible	Not significant
7-C-H245	St Margaret's Road, Manchester	9.0	9.0	< 0.1	Negligible	Not significant
7-C-H246	Broadway, Oldham	10.3	10.3	< 0.1	Negligible	Not significant
7-C-H247	Chadderton, Oldham	10.4	10.4	< 0.1	Negligible	Not significant
7-C-H248	Chadderton, Oldham	9.8	9.8	< 0.1	Negligible	Not significant
7-C-H249	Kingfisher Special School, Foxdenton Lane, Chadderton, Oldham	8.0	8.0	< 0.1	Negligible	Not significant

Table 16: Predicted annual mean of NO_x concentrations at ecological sites (construction phase)

Ecological site	Distance to road (m)	NO _x concentrations (µg/m ³)		Change in NO _x concentrations (µg/m ³)	Comparison against air quality standard (30µg/m ³)
		2025 without the Proposed Scheme	2025 with the Proposed Scheme		
Hollinwood Branch Canal SSSI	34m	32.6	32.8	0.2	Above standard
	40m	31.1	31.3	0.2	Above standard
	50m	29.3	29.4	0.1	Within standard
	75m	26.5	26.6	0.1	Within standard
	100m	24.9	25.0	0.1	Within standard
	150m	23.2	23.2	< 0.1	Within standard
	4m	35.4	35.5	0.1	Above standard

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Ecological site	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)
		2025 without the Proposed Scheme	2025 with the Proposed Scheme		
Rochdale Canal SSSI and SAC transect 1	10m	32.3	32.4	0.1	Above standard
Rochdale Canal SSSI and SAC transect 2	10m	56.4	57.0	0.6	Above standard
	20m	46.2	46.7	0.5	Above standard
Rochdale Canal SSSI and SAC transect 3	0m	60.2	61.0	0.8	Above standard
	10m	48.7	49.2	0.5	Above standard
	20m	45.1	45.5	0.4	Above standard
	30m	43.0	43.4	0.4	Above standard
	40m	41.5	41.9	0.4	Above standard
	50m	40.4	40.7	0.3	Above standard
Rochdale Canal SSSI and SAC transect 4	0m	67.7	69.2	1.5	Above standard
	10m	51.6	52.4	0.8	Above standard
	20m	45.8	46.4	0.6	Above standard
	30m	42.6	43.1	0.5	Above standard
Rochdale Canal SSSI and SAC transect 5	71m	33.0	33.2	0.2	Above standard
	75m	32.7	32.9	0.2	Above standard
	100m	31.1	31.3	0.2	Above standard

Note: Data for the Ecology Assessment is presented within the boundary of the relevant designations, therefore data from Hollinwood Branch Canal SSSI is presented from 34m to 150m, Rochdale Canal SSSI and SAC transect 1 is presented from 4m to 10m, Rochdale Canal SSSI and SAC transect 2 is presented from 10m to 20m, Rochdale Canal SSSI and SAC transect 3 is presented from 0m to 50m, Rochdale Canal SSSI and SAC transect 4 is presented from 0m to 30m and Rochdale Canal SSSI and SAC transect 5 is presented from 71m to 100m.

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Table 17: Assessment of N deposition at ecological sites (construction phase)

Ecological site	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Critical load (kg N/ha/yr)	Change in relation to lower critical load
		2025 without the Proposed Scheme	2025 with the Proposed Scheme			
Rochdale Canal SSSI and SAC transect 1	4m	31.2	31.2	<0.1	3	0.3%
	10m	30.9	30.9	<0.1	3	0.2%
Rochdale Canal SSSI and SAC transect 2	10m	32.6	32.7	0.1	3	1.3%
	20m	31.9	32.0	0.1	3	1%
Rochdale Canal SSSI and SAC transect 3	0m	32.9	32.9	<0.1	3	1.7%
	10m	32.1	32.1	<0.1	3	1.2%
	20m	31.9	31.9	<0.1	3	1.1%
	30m	31.7	31.7	<0.1	3	1%
	40m	31.6	31.6	<0.1	3	0.9%
	50m	31.5	31.5	<0.1	3	0.8%
Rochdale Canal SSSI and SAC transect 4	0m	33.3	33.4	0.1	3	3.2%
	10m	32.3	32.3	<0.1	3	1.7%
	20m	31.9	31.9	<0.1	3	1.3%
	30m	31.7	31.7	<0.1	3	1.1%
Rochdale Canal SSSI and SAC transect 5	71m	31.0	31.0	<0.1	3	0.5%
	75m	31.0	31.0	<0.1	3	0.5%
	100m	30.8	30.9	<0.1	3	0.4%

Note: Data for the Ecology Assessment is presented within the boundary of the relevant designations, therefore data from Hollinwood Branch Canal SSSI is presented from 34m to 150m, Rochdale Canal SSSI and SAC transect 1 is presented from 4m to 10m, Rochdale Canal SSSI and SAC transect 2 is presented from 10m to 20m, Rochdale Canal SSSI and SAC transect 3 is presented from 0m to 50m, Rochdale Canal SSSI and SAC transect 4 is presented from 0m to 30m and Rochdale Canal SSSI and SAC transect 5 is presented from 71m to 100m.

- 4.3.8 The annual mean concentrations of NO₂, PM₁₀ and PM_{2.5} are predicted to be within the air quality standards with and without construction of the Proposed Scheme. Since the annual mean NO₂ concentrations are predicted to be below 60µg/m³, the hourly mean standard is also expected to be met. Similarly, since the annual mean PM₁₀ concentrations are predicted to be below 35µg/m³, the daily mean standard is also expected to be met.
- 4.3.9 Negligible impacts are predicted at all human receptors for annual mean NO₂, PM₁₀ and PM_{2.5} concentrations.
- 4.3.10 NO_x concentrations at the Hollinwood Branch Canal SSSI are predicted to be above the air quality standard, both without and with the Proposed Scheme, at two transect points at the eastern boundary of the site, adjacent to the M60.
- 4.3.11 NO_x concentrations at the Rochdale Canal SSSI and SAC are predicted to be above the air quality standard, both without and with the Proposed Scheme, at 17 transect points where the designation crosses the M60 and A663 Broadway. The change in N deposition due to the Proposed Scheme is predicted to be greater than 1% of the lower critical load at the Rochdale Canal SSSI and SAC at 10 transect points.

Assessment of significance

- 4.3.12 No significant effects are anticipated at any receptor in relation to annual mean NO₂, PM₁₀ and PM_{2.5} concentrations.
- 4.3.13 As the change in N deposition is predicted to be greater than 1% of the lower critical load, there is potential for significant effects at the Rochdale Canal SSSI and SAC and this is further assessed in Ecological register of local level effects, Volume 5: Appendix EC-015-0MA07.

4.4 Assessment of operational traffic emissions

Operational traffic model

- 4.4.1 Operational traffic data used in this assessment is detailed in BID (BID AQ-002-0MA07)¹. For the assessment of traffic on the highway network, data for the year 2038 was used as the operational year of the Proposed Scheme.

Screening of traffic data

- 4.4.2 The screening process identified a total of 46 roads in the Davenport Green to Ardwick area exceeding the DMRB thresholds for changes in AADT or HDV flows and/or changes in road alignment by 5m or more. These roads include:
- the A5103 Princess Parkway;
 - the A57 Hyde Road;
 - the A6010 Pottery Lane;

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- the A665 Devonshire Street North; and
- the A635 Ashton Old Road.

4.4.3 Further roads have been included in the assessment to account for their emissions at nearby receptors.

Receptors assessed and background concentrations

4.4.4 Sensitive receptors have been selected from the OS AddressBase Premium database. The receptors consist of residential properties, schools and care homes within 200m of the screened in roads and represent worst-case exposure locations (Table 18). The location of all receptors is shown on accompanying map AQ-01-307.

4.4.5 No designated ecological receptors were identified within 200m of the screened in roads within the Davenport Green to Ardwick area during operation of the Proposed Scheme.

4.4.6 Details of the assessed receptors and the background concentrations used in the assessment are shown in Table 18 for human receptors.

Table 18: Modelled human receptors and background concentrations (operational phase)

Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2038 ($\mu\text{g}/\text{m}^3$)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-O-H001	Longsight Lane, Cheadle Hulme	386874, 384432	14.1	10.7	9.8	6.6
7-O-H002	Stanley Road, Cheadle Hulme	386900, 384686	14.1	10.7	9.8	6.6
7-O-H003	Thorley Lane, Manchester	381457, 386051	23.3	16.6	12.6	8.1
7-O-H004	Newall Road, Wythenshawe	380731, 387196	16.6	12.3	10.5	7.0
7-O-H005	Newall Road, Manchester	380803, 387300	16.6	12.3	10.5	7.0
7-O-H006	Barnacle Avenue, Manchester	380835, 387368	16.6	12.3	10.5	7.0
7-O-H007	Newall Green High School, Wythenshawe	380817, 387445	16.6	12.3	10.5	7.0
7-O-H008	Wythenshawe Hospital, Southmoor Road, Manchester	380491, 387858	16.6	12.3	10.5	7.0
7-O-H009	Wythenshawe Hospital, Southmoor Road, Manchester	380405, 388125	17.3	12.8	10.7	7.2
7-O-H010	Fouracres Road, Manchester	380964, 388354	17.3	12.8	10.7	7.2
7-O-H011	Banbury Road, Manchester	380925, 388400	17.3	12.8	10.7	7.2
7-O-H012	Greenwood Road, Wythenshawe	382092, 388429	16.0	11.9	13.1	8.5
7-O-H013	Roundthorn Road, Manchester	380833, 388570	17.3	12.8	10.7	7.2

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2038 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-O-H014	Benchill Primary School, Benchill Road, Wythenshawe	382224, 388608	16.0	11.9	13.1	8.5
7-O-H015	Partridge Avenue, Wythenshawe	382100, 388750	16.0	11.9	13.1	8.5
7-O-H016	Parkwood Road, Manchester	382163, 389295	18.2	13.4	12.8	8.3
7-O-H017	Beechpark Avenue, Wythenshawe	382277, 389358	18.2	13.4	12.8	8.3
7-O-H018	Brandon Avenue, Manchester	382358, 389962	18.2	13.4	12.8	8.3
7-O-H019	Wythenshawe Road, Manchester	382216, 390065	19.0	14.0	12.6	8.2
7-O-H020	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	387321, 395971	17.2	12.7	12.3	8.4
7-O-H021	Kirkmanshulme Lane, Manchester	387327, 395997	17.2	12.7	12.3	8.4
7-O-H022	Kirkmanshulme Lane, Manchester	387383, 396021	18.0	13.2	12.1	8.1
7-O-H023	Hyde Road, Manchester	387158, 396509	18.0	13.2	12.1	8.1
7-O-H024	Lawnswood Road, Manchester	387047, 396567	18.0	13.2	12.1	8.1
7-O-H025	Early Explorers Day Nursery, Hyde Road, Manchester	385837, 396885	21.1	15.1	12.0	7.9
7-O-H026	Wenlock Way, Manchester	387175, 396943	18.0	13.2	12.1	8.1
7-O-H027	Nicholls Campus, Hyde Road, Ardwick	385757, 396952	21.1	15.1	12.0	7.9
7-O-H028	Gorton Lane, Manchester	387225, 396982	18.0	13.2	12.1	8.1
7-O-H029	Wenlock Way, Manchester	387182, 396998	18.0	13.2	12.1	8.1
7-O-H030	Wenlock Way, Manchester	387187, 397040	19.5	14.1	11.8	7.9
7-O-H031	Gorton Lane, Manchester	387222, 397043	19.5	14.1	11.8	7.9
7-O-H032	Varna Community Primary School, Chisholm Street, Openshaw	388767, 397357	18.7	13.6	11.7	7.9
7-O-H033	Ashton Old Road, Openshaw	388763, 397386	18.7	13.6	11.7	7.9
7-O-H034	Ashton Old Road, Tameside	388422, 397387	18.7	13.6	11.7	7.9
7-O-H035	Openshaw Campus, Whitworth Street, Manchester	387267, 397390	19.5	14.1	11.8	7.9
7-O-H036	Ashton Old Road, Tameside	388362, 397392	18.7	13.6	11.7	7.9
7-O-H037	Turing Close, Openshaw	387228, 397537	19.5	14.1	11.8	7.9
7-O-H038	Alan Turing Way, Manchester	387298, 397920	19.5	14.1	11.8	7.9
7-O-H039	Grey Mare Lane, Manchester	387070, 397930	19.5	14.1	11.8	7.9

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Receptor	Description/Location	Ordnance survey coordinates	Background concentrations in 2038 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
7-O-H040	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	387113, 397953	19.5	14.1	11.8	7.9
7-O-H041	Grey Mare Lane, Manchester	387049, 398078	21.2	15.2	11.5	7.7
7-O-H042	Broxton Street, Manchester	386514, 399221	21.6	15.4	11.8	7.7
7-O-H043	Bradford Road, Manchester	386547, 399274	21.6	15.4	11.8	7.7
7-O-H044	The Mews, Manchester	386578, 399317	21.6	15.4	11.8	7.7
7-O-H045	Limerston Drive, Manchester	387041, 400340	18.6	13.6	11.6	7.8
7-O-H046	Clever Bees Nursery, Oldham Road, Manchester	386902, 400357	18.4	13.4	11.5	7.6
7-O-H047	Oldham Road, Manchester	386924, 400369	18.4	13.4	11.5	7.6

Assessment results

4.4.7 Table 19, Table 20 and Table 21 provide the summary of the modelled pollutant concentrations for the assessed human receptors. The magnitude of change and impact descriptor are also derived following the IAQM/EPUK methodology⁵.

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Table 19: Predicted annual mean NO₂ concentrations and impacts (operation phase)

Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H001	Longsight Lane, Cheadle Hulme	12.9	13.0	0.1	Negligible	Not significant
7-O-H002	Stanley Road, Cheadle Hulme	14.1	14.2	0.1	Negligible	Not significant
7-O-H003	Thorley Lane, Manchester	20.6	20.6	< 0.1	Negligible	Not significant
7-O-H004	Newall Road, Wythenshawe	14.5	14.4	-0.1	Negligible	Not significant
7-O-H005	Newall Road, Manchester	13.3	13.1	-0.2	Negligible	Not significant
7-O-H006	Barnacle Avenue, Manchester	13.1	13.0	-0.1	Negligible	Not significant
7-O-H007	Newall Green High School, Wythenshawe	12.8	12.7	-0.1	Negligible	Not significant
7-O-H008	Wythenshawe Hospital, Southmoor Road, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-O-H009	Wythenshawe Hospital, Southmoor Road, Manchester	13.8	13.9	0.1	Negligible	Not significant
7-O-H010	Fouracres Road, Manchester	13.8	13.9	0.1	Negligible	Not significant
7-O-H011	Banbury Road, Manchester	14.3	14.4	0.1	Negligible	Not significant
7-O-H012	Greenwood Road, Wythenshawe	14.8	14.8	< 0.1	Negligible	Not significant
7-O-H013	Roundthorn Road, Manchester	13.4	13.5	0.1	Negligible	Not significant
7-O-H014	Benchill Primary School, Benchill Road, Wythenshawe	14.0	14.0	< 0.1	Negligible	Not significant
7-O-H015	Partridge Avenue, Wythenshawe	15.7	15.7	< 0.1	Negligible	Not significant
7-O-H016	Parkwood Road, Manchester	17.8	17.8	< 0.1	Negligible	Not significant
7-O-H017	Beechpark Avenue, Wythenshawe	17.3	17.3	< 0.1	Negligible	Not significant
7-O-H018	Brandon Avenue, Manchester	16.6	16.6	< 0.1	Negligible	Not significant
7-O-H019	Wythenshawe Road, Manchester	17.8	17.8	< 0.1	Negligible	Not significant
7-O-H020	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	13.4	13.5	0.1	Negligible	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H021	Kirkmanshulme Lane, Manchester	14.1	14.2	0.1	Negligible	Not significant
7-O-H022	Kirkmanshulme Lane, Manchester	14.6	14.7	0.1	Negligible	Not significant
7-O-H023	Hyde Road, Manchester	17.7	17.9	0.2	Negligible	Not significant
7-O-H024	Lawnswood Road, Manchester	16.6	16.6	< 0.1	Negligible	Not significant
7-O-H025	Early Explorers Day Nursery, Hyde Road, Manchester	16.9	16.9	< 0.1	Negligible	Not significant
7-O-H026	Wenlock Way, Manchester	16.4	16.5	0.1	Negligible	Not significant
7-O-H027	Nicholls Campus, Hyde Road, Ardwick	18.3	18.3	< 0.1	Negligible	Not significant
7-O-H028	Gorton Lane, Manchester	16.5	16.6	0.1	Negligible	Not significant
7-O-H029	Wenlock Way, Manchester	17.5	17.6	0.1	Negligible	Not significant
7-O-H030	Wenlock Way, Manchester	18.0	18.1	0.1	Negligible	Not significant
7-O-H031	Gorton Lane, Manchester	16.8	17.0	0.2	Negligible	Not significant
7-O-H032	Varna Community Primary School, Chisholm Street, Openshaw	15.1	15.1	< 0.1	Negligible	Not significant
7-O-H033	Ashton Old Road, Openshaw	17.5	17.4	-0.1	Negligible	Not significant
7-O-H034	Ashton Old Road, Tameside	16.6	16.6	< 0.1	Negligible	Not significant
7-O-H035	Openshaw Campus, Whitworth Street, Manchester	15.1	15.1	< 0.1	Negligible	Not significant
7-O-H036	Ashton Old Road, Tameside	16.9	16.8	-0.1	Negligible	Not significant
7-O-H037	Turing Close, Openshaw	17.4	17.4	< 0.1	Negligible	Not significant
7-O-H038	Alan Turing Way, Manchester	15.6	15.6	< 0.1	Negligible	Not significant
7-O-H039	Grey Mare Lane, Manchester	14.8	14.8	< 0.1	Negligible	Not significant
7-O-H040	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	15.2	15.3	0.1	Negligible	Not significant
7-O-H041	Grey Mare Lane, Manchester	16.2	16.3	0.1	Negligible	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H042	Broxton Street, Manchester	17.2	17.0	-0.2	Negligible	Not significant
7-O-H043	Bradford Road, Manchester	18.3	18.0	-0.3	Negligible	Not significant
7-O-H044	The Mews, Manchester	17.5	17.4	-0.1	Negligible	Not significant
7-O-H045	Limerston Drive, Manchester	14.1	14.1	< 0.1	Negligible	Not significant
7-O-H046	Clever Bees Nursery, Oldham Road, Manchester	17.0	16.9	-0.1	Negligible	Not significant
7-O-H047	Oldham Road, Manchester	17.0	16.9	-0.1	Negligible	Not significant

Table 20: Predicted annual mean PM₁₀ concentrations and impacts (operation phase)

Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H001	Longsight Lane, Cheadle Hulme	10.9	10.9	< 0.1	Negligible	Not significant
7-O-H002	Stanley Road, Cheadle Hulme	11.4	11.5	0.1	Negligible	Not significant
7-O-H003	Thorley Lane, Manchester	14.4	14.5	0.1	Negligible	Not significant
7-O-H004	Newall Road, Wythenshawe	11.7	11.7	< 0.1	Negligible	Not significant
7-O-H005	Newall Road, Manchester	11.1	11	-0.1	Negligible	Not significant
7-O-H006	Barnacle Avenue, Manchester	11	10.9	-0.1	Negligible	Not significant
7-O-H007	Newall Green High School, Wythenshawe	10.8	10.8	< 0.1	Negligible	Not significant
7-O-H008	Wythenshawe Hospital, Southmoor Road, Manchester	10.9	10.9	< 0.1	Negligible	Not significant
7-O-H009	Wythenshawe Hospital, Southmoor Road, Manchester	11.3	11.3	< 0.1	Negligible	Not significant
7-O-H010	Fouracres Road, Manchester	11.2	11.2	< 0.1	Negligible	Not significant
7-O-H011	Banbury Road, Manchester	11.5	11.5	< 0.1	Negligible	Not significant
7-O-H012	Greenwood Road, Wythenshawe	14.2	14.2	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H013	Roundthorn Road, Manchester	11	11.1	0.1	Negligible	Not significant
7-O-H014	Benchill Primary School, Benchill Road, Wythenshawe	13.9	13.9	< 0.1	Negligible	Not significant
7-O-H015	Partridge Avenue, Wythenshawe	14.5	14.5	< 0.1	Negligible	Not significant
7-O-H016	Parkwood Road, Manchester	14.6	14.6	< 0.1	Negligible	Not significant
7-O-H017	Beechpark Avenue, Wythenshawe	14.2	14.2	< 0.1	Negligible	Not significant
7-O-H018	Brandon Avenue, Manchester	14.1	14.1	< 0.1	Negligible	Not significant
7-O-H019	Wythenshawe Road, Manchester	14.2	14.2	< 0.1	Negligible	Not significant
7-O-H020	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	12.7	12.7	< 0.1	Negligible	Not significant
7-O-H021	Kirkmanshulme Lane, Manchester	13	13.1	0.1	Negligible	Not significant
7-O-H022	Kirkmanshulme Lane, Manchester	12.8	12.9	0.1	Negligible	Not significant
7-O-H023	Hyde Road, Manchester	14.4	14.5	0.1	Negligible	Not significant
7-O-H024	Lawnswood Road, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-O-H025	Early Explorers Day Nursery, Hyde Road, Manchester	12.9	12.9	< 0.1	Negligible	Not significant
7-O-H026	Wenlock Way, Manchester	13.6	13.7	0.1	Negligible	Not significant
7-O-H027	Nicholls Campus, Hyde Road, Ardwick	13.5	13.5	< 0.1	Negligible	Not significant
7-O-H028	Gorton Lane, Manchester	13.7	13.7	< 0.1	Negligible	Not significant
7-O-H029	Wenlock Way, Manchester	14.2	14.2	< 0.1	Negligible	Not significant
7-O-H030	Wenlock Way, Manchester	13.7	13.8	0.1	Negligible	Not significant
7-O-H031	Gorton Lane, Manchester	13.1	13.2	0.1	Negligible	Not significant
7-O-H032	Varna Community Primary School, Chisholm Street, Openshaw	12.5	12.5	< 0.1	Negligible	Not significant
7-O-H033	Ashton Old Road, Openshaw	13.8	13.7	-0.1	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H034	Ashton Old Road, Tameside	13.1	13.1	< 0.1	Negligible	Not significant
7-O-H035	Openshaw Campus, Whitworth Street, Manchester	12.3	12.3	< 0.1	Negligible	Not significant
7-O-H036	Ashton Old Road, Tameside	13.2	13.2	< 0.1	Negligible	Not significant
7-O-H037	Turing Close, Openshaw	13.4	13.4	< 0.1	Negligible	Not significant
7-O-H038	Alan Turing Way, Manchester	12.5	12.5	< 0.1	Negligible	Not significant
7-O-H039	Grey Mare Lane, Manchester	12.1	12.2	0.1	Negligible	Not significant
7-O-H040	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	12.4	12.4	< 0.1	Negligible	Not significant
7-O-H041	Grey Mare Lane, Manchester	12.1	12.1	< 0.1	Negligible	Not significant
7-O-H042	Broxton Street, Manchester	12.7	12.6	-0.1	Negligible	Not significant
7-O-H043	Bradford Road, Manchester	13.3	13.1	-0.2	Negligible	Not significant
7-O-H044	The Mews, Manchester	12.8	12.7	-0.1	Negligible	Not significant
7-O-H045	Limerston Drive, Manchester	11.9	11.9	< 0.1	Negligible	Not significant
7-O-H046	Clever Bees Nursery, Oldham Road, Manchester	13.4	13.3	-0.1	Negligible	Not significant
7-O-H047	Oldham Road, Manchester	13.4	13.3	-0.1	Negligible	Not significant

Table 21: Predicted annual mean PM_{2.5} concentrations and impacts (operation phase)

Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H001	Longsight Lane, Cheadle Hulme	7.2	7.2	< 0.1	Negligible	Not significant
7-O-H002	Stanley Road, Cheadle Hulme	7.5	7.5	< 0.1	Negligible	Not significant
7-O-H003	Thorley Lane, Manchester	9.1	9.1	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H004	Newall Road, Wythenshawe	7.7	7.7	< 0.1	Negligible	Not significant
7-O-H005	Newall Road, Manchester	7.3	7.3	< 0.1	Negligible	Not significant
7-O-H006	Barnacle Avenue, Manchester	7.3	7.2	-0.1	Negligible	Not significant
7-O-H007	Newall Green High School, Wythenshawe	7.2	7.2	< 0.1	Negligible	Not significant
7-O-H008	Wythenshawe Hospital, Southmoor Road, Manchester	7.2	7.2	< 0.1	Negligible	Not significant
7-O-H009	Wythenshawe Hospital, Southmoor Road, Manchester	7.5	7.5	< 0.1	Negligible	Not significant
7-O-H010	Fouracres Road, Manchester	7.5	7.5	< 0.1	Negligible	Not significant
7-O-H011	Banbury Road, Manchester	7.6	7.7	0.1	Negligible	Not significant
7-O-H012	Greenwood Road, Wythenshawe	9.2	9.2	< 0.1	Negligible	Not significant
7-O-H013	Roundthorn Road, Manchester	7.4	7.4	< 0.1	Negligible	Not significant
7-O-H014	Benchill Primary School, Benchill Road, Wythenshawe	9	9	< 0.1	Negligible	Not significant
7-O-H015	Partridge Avenue, Wythenshawe	9.3	9.3	< 0.1	Negligible	Not significant
7-O-H016	Parkwood Road, Manchester	9.3	9.3	< 0.1	Negligible	Not significant
7-O-H017	Beechpark Avenue, Wythenshawe	9.2	9.2	< 0.1	Negligible	Not significant
7-O-H018	Brandon Avenue, Manchester	9.1	9.1	< 0.1	Negligible	Not significant
7-O-H019	Wythenshawe Road, Manchester	9.1	9.1	< 0.1	Negligible	Not significant
7-O-H020	St. Peters Roman Catholic High School, Kirkmanshulme Lane, Manchester	8.7	8.7	< 0.1	Negligible	Not significant
7-O-H021	Kirkmanshulme Lane, Manchester	8.8	8.9	0.1	Negligible	Not significant
7-O-H022	Kirkmanshulme Lane, Manchester	8.5	8.5	< 0.1	Negligible	Not significant
7-O-H023	Hyde Road, Manchester	9.3	9.4	0.1	Negligible	Not significant
7-O-H024	Lawnswood Road, Manchester	8.9	9	0.1	Negligible	Not significant
7-O-H025	Early Explorers Day Nursery, Hyde Road, Manchester	8.4	8.4	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H026	Wenlock Way, Manchester	8.9	8.9	< 0.1	Negligible	Not significant
7-O-H027	Nicholls Campus, Hyde Road, Ardwick	8.8	8.8	< 0.1	Negligible	Not significant
7-O-H028	Gorton Lane, Manchester	8.9	9	0.1	Negligible	Not significant
7-O-H029	Wenlock Way, Manchester	9.2	9.2	< 0.1	Negligible	Not significant
7-O-H030	Wenlock Way, Manchester	8.9	9	0.1	Negligible	Not significant
7-O-H031	Gorton Lane, Manchester	8.6	8.6	< 0.1	Negligible	Not significant
7-O-H032	Varna Community Primary School, Chisholm Street, Openshaw	8.3	8.3	< 0.1	Negligible	Not significant
7-O-H033	Ashton Old Road, Openshaw	9	9	< 0.1	Negligible	Not significant
7-O-H034	Ashton Old Road, Tameside	8.7	8.7	< 0.1	Negligible	Not significant
7-O-H035	Openshaw Campus, Whitworth Street, Manchester	8.1	8.1	< 0.1	Negligible	Not significant
7-O-H036	Ashton Old Road, Tameside	8.7	8.7	< 0.1	Negligible	Not significant
7-O-H037	Turing Close, Openshaw	8.7	8.8	0.1	Negligible	Not significant
7-O-H038	Alan Turing Way, Manchester	8.3	8.3	< 0.1	Negligible	Not significant
7-O-H039	Grey Mare Lane, Manchester	8.1	8.1	< 0.1	Negligible	Not significant
7-O-H040	St Brigid's Primary School, Grey Mare Lane, Beswick, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-O-H041	Grey Mare Lane, Manchester	8	8	< 0.1	Negligible	Not significant
7-O-H042	Broxton Street, Manchester	8.2	8.1	-0.1	Negligible	Not significant
7-O-H043	Bradford Road, Manchester	8.5	8.4	-0.1	Negligible	Not significant
7-O-H044	The Mews, Manchester	8.2	8.2	< 0.1	Negligible	Not significant
7-O-H045	Limerston Drive, Manchester	7.9	7.9	< 0.1	Negligible	Not significant
7-O-H046	Clever Bees Nursery, Oldham Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Significance
		2038 without the Proposed Scheme	2038 with the Proposed Scheme			
7-O-H047	Oldham Road, Manchester	8.6	8.6	< 0.1	Negligible	Not significant

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- 4.4.8 The annual mean NO₂, PM₁₀ and PM_{2.5} concentrations are predicted to be within the air quality standards with and without operation of the Proposed Scheme. Since the annual mean NO₂ concentrations are predicted to be below 60µg/m³, the hourly mean standard is also expected to be met. Similarly, since the annual mean PM₁₀ concentrations are predicted to be below 35µg/m³, the daily mean standard is also expected to be met.
- 4.4.9 Negligible impacts are predicted at all human receptors for annual mean NO₂, PM₁₀, PM_{2.5} concentrations.

Assessment of significance

- 4.4.10 No significant effects are anticipated at any receptors in relation to annual mean NO₂, PM₁₀ and PM_{2.5} concentrations.

5 Assessment of rail emissions

5.1 Overall assessment approach

- 5.1.1 The air quality assessment for rail emissions has used the approach described in the SMR (see Volume 5: Appendix CT-001-00001).

5.2 Assessment of rail emissions during construction

- 5.2.1 The operation of diesel trains associated with the Manchester tunnel north portal construction sidings have been assessed for their emissions of NO₂ and sulphur dioxide (SO₂) to local air quality.
- 5.2.2 Screening criteria are set out by Defra⁶ to determine the potential risk of exceedance from stationary diesel and/or moving locomotives at relevant sensitive receptors.
- 5.2.3 There are no locations of relevant exposure within 15m of where diesel locomotives will be regularly (at least three times a day) stationary for periods of 15 minutes. The risk of exceedance of the 15-minute SO₂ air quality standard is therefore considered to be negligible.
- 5.2.4 Background annual mean NO₂ concentrations around the Manchester tunnel north portal construction sidings are lower than 25µg/m³. Therefore, the risk of exceedance of the annual mean NO₂ standard is considered to be negligible.
- 5.2.5 No significant effects are anticipated at any receptor in relation to diesel trains operating at the Manchester tunnel north portal during construction of the Proposed Scheme.

5.3 Assessment of rail emissions during operation

There will be no direct atmospheric emissions from trains operating on the Proposed Scheme, since they will use electric traction. No assessment is therefore required. Indirect emissions from sources such as rail and brake wear have been assumed to be negligible.

⁶ Department for Environment, Food and Rural Affairs (Defra) (2016), *Local Air Quality Management Technical Guidance (LAQM.TG16)*. Available online at: <https://laqm.defra.gov.uk/guidance/>.

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