Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

Environmental Statement
Volume 2: Appendices

Appendix 9.7: Defra Background Map Concentrations utilised in assessment

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Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 Regulation 14

This document forms a part of the Environmental Statement for the Hinckley National Rail Freight Interchange project.

Tritax Symmetry (Hinckley) Limited (TSH) has applied to the Secretary of State for Transport for a Development Consent Order (DCO) for the Hinckley National Rail Freight Interchange (HNRFI).

To help inform the determination of the DCO application, TSH has undertaken an environmental impact assessment (EIA) of its proposals. EIA is a process that aims to improve the environmental design of a development proposal, and to provide the decision maker with sufficient information about the environmental effects of the project to make a decision.

The findings of an EIA are described in a written report known as an Environmental Statement (ES). An ES provides environmental information about the scheme, including a description of the development, its predicted environmental effects and the measures proposed to ameliorate any adverse effects.

Further details about the proposed Hinckley National Rail Freight Interchange are available on the project website:

http://www.hinckleynrfi.co.uk/

The DCO application and documents relating to the examination of the proposed development can be viewed on the Planning Inspectorate's National Infrastructure Planning website:

https://infrastructure.planninginspectorate.gov.uk/projects/east-midlands/hinckley-national-rail-freight-interchange/

APPENDIX 6.2.9.7: AIR QUALITY DEFRA BACKGROUND MAP CONCENTRATIONS UTILISED IN THE ASSESSMENT

Background pollutant concentrations were obtained from the latest Defra background concentration maps[1], which are provided for the UK as a 1km x 1km grid network. The latest maps are based on 2018 monitoring and meteorological data. Background concentrations of NO_2, PM_{10} and $PM_{2.5}$ were obtained for the grid squares covering the study area for the years of assessment (2019, 2026 and 2036). The background concentrations used in the assessment are detailed in Table 7.1, Table 7.2 and Table 7.3. The background concentrations utilised in the ecological assessment are detailed in Appendices 6.2.9.12 and 6.2.9.4.

2030 data was used for the 2036 scenarios as this is the latest year for which background mapped concentrations were derived by Defra at the time of assessment.

Table 7.1: Background pollutant concentrations used in the assessment for verification.

Grid Square	Monitoring Locations	2019 Background NO_2 Concentration ($\mu g.m^{-3}$)
Blaby District Council		
447500, 295500	DT69	10.6
448500, 293500	DT39	16.5
454500, 297500	DT61	17.2
454500, 298500	DT48	17.2
453500, 303500	DT54, DT18 and CM3	23.1
453500, 304500	DT16	14.0
Hinckley & Bosworth Borough Council		

[1] Defra (2020) background pollutant concentration maps [https://uk-air.defra.gov.uk/data/laqm-background-maps?year=2018]

Grid Square	Monitoring Locations	2019 Background NO_2 Concentration ($\mu g.m^{-3}$)
446500, 296500	8	15.2
443500, 293500	7	17.8
442500, 293500	16	21.8
442500, 292500	6	17.6
440500, 293500	3	21.2
440500, 292500	5	18.8
442500, 291500	2	17.6
Charnwood Borough Council		
448500, 318500	DT17	17.2
Erewash Borough Council		
447500, 332500	EBC23 and EBC22	23.6
447500, 333500	EBC18, EBC11 and EBC4	27.6
447500, 334500	EBC2 and EBC5	27.3
North West Leicestershire District Council		
448500, 312500	45N	18.2
West Northamptonshire Council		

Grid Square	Monitoring Locations	2019 Background NO_2 Concentration ($\mu g.m^{-3}$)
455500, 275500	N15	9.6
457500, 273500	N14	15.2
Harborough District Council		
448500, 287500	32n	9.8
448500, 286500	33n	9.6

Table 7.2: Background pollutant concentrations used in the construction phase road traffic emissions assessment.

Pollutant	Grid Square	Receptors	2026 Background Concentration ($\mu g.m^{-3}$)
Blaby District Council			
NO_2	446500, 293500	CR1, CR2, CR9	10.5
PM_{10}			14.7
$PM_{2.5}$			8.8
NO_2	445500, 293500	CR3 – CR7	9.2
PM_{10}			13.0
$PM_{2.5}$			8.1

Pollutant	Grid Square	Receptors	2026 Background Concentration (µg.m^{-3})
NO_2	445500, 295500	CR8	8.9
PM_{10}			13.4
$PM_{2.5}$			8.1
NO_2	447500, 293500	CR10	8.7
PM_{10}			13.4
$PM_{2.5}$			8.2
NO_2	448500, 293500	CR11	8.5
PM_{10}			12.4
$PM_{2.5}$			8.0
NO_2	447500, 295500	CR12	11.5
PM_{10}			15.1
$PM_{2.5}$			9.0
NO_2	447500, 296500	CR13	9.1
PM_{10}			13.5
$PM_{2.5}$			8.2
NO_2	446500, 292500	CR14	8.7

Pollutant	Grid Square	Receptors	2026 Background Concentration (µg.m^{-3})
PM_{10}			12.7
$PM_{2.5}$			7.9
NO_2	445500, 292500	CR15	10.9
PM_{10}			14.3
$PM_{2.5}$			8.8
NO_2	444500, 291500	CR16 and CR17	10.5
PM_{10}			14.1
$PM_{2.5}$			8.7

Table 7.3: Background pollutant concentrations used in the operational phase road traffic emissions assessment.

Pollutant	Grid Square	Receptors	Background Concentration (µg.m^{-3})		
			2019	2026	2030
Blaby District Council					
NO_2	445500, 296500	R1, R47 and R48	10.8	8.4	7.8
PM_{10}			14.0	13.0	13.0

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			8.9	8.1	8.0
NO_2	446500, 296500	R2, R170	11.5	8.9	8.2
PM_{10}			13.7	12.7	12.6
$PM_{2.5}$			8.8	8.0	8.0
NO_2	446500, 295500	R3	11.4	8.9	8.2
PM_{10}			14.5	13.5	13.5
$PM_{2.5}$			8.9	8.1	8.1
NO_2	447500, 295500	R4 and STR3	15.3	11.1	9.8
PM_{10}			16.1	15.1	15.1
$PM_{2.5}$			9.8	9.0	8.9
NO_2	448500, 294500	R5 – R9	12.4	10.1	9.4
PM_{10}			16.0	14.9	14.8
$PM_{2.5}$			10.9	10.0	9.9
NO_2	449500, 294500	R10, R11 and R19	10.6	8.4	7.8
PM_{10}			13.7	12.7	12.6

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			8.9	8.1	8.1
NO_2	448500, 293500	R12 – R15	10.5	8.3	7.7
PM_{10}			13.4	12.4	12.3
$PM_{2.5}$			8.8	8.0	7.9
NO_2	449500, 293500	R16 – R18	10.1	8.0	7.4
PM_{10}			13.7	12.6	12.6
$PM_{2.5}$			8.8	8.0	7.9
NO_2	448500, 291500	R20 – R23 and STR1	9.7	7.6	7.1
PM_{10}			13.3	12.3	12.2
$PM_{2.5}$			8.5	7.7	7.7
NO_2	447500, 291500	R24 – R26	10.0	7.8	7.3
PM_{10}			14.0	13.0	12.9
$PM_{2.5}$			8.7	7.9	7.9
NO_2	446500, 289500	R27	10.4	8.0	7.4
PM_{10}			14.1	13.1	13.1

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			8.8	8.1	8.0
NO_2	447500, 288500	R28	10.2	7.9	7.2
PM_{10}			14.6	13.6	13.6
$PM_{2.5}$			9.0	8.2	8.1
NO_2	451500, 297500	R29, R30 and R32	11.9	9.3	8.6
PM_{10}			14.3	13.2	13.1
$PM_{2.5}$			9.0	8.2	8.1
NO_2	453500, 297500	R33 - R35	13.5	10.4	9.5
PM_{10}			13.8	12.8	12.7
$PM_{2.5}$			9.1	8.2	8.2
NO_2	454500, 298500	R36, R38, R42 and R50	17.2	12.3	10.8
PM_{10}			15.9	14.8	14.8
$PM_{2.5}$			10.0	9.2	9.1
NO_2	454500, 297500	R37 and R51	16.5	12.0	10.6
PM_{10}			16.3	15.3	15.2

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			10.2	9.3	9.3
NO_2	453500, 303500	R39, R40 and R52	23.1	16.8	14.9
PM_{10}			16.8	15.8	15.7
$PM_{2.5}$			10.5	9.7	9.6
NO_2	452500, 305500	R41	20.5	14.2	12.2
PM_{10}			15.6	14.5	14.5
$PM_{2.5}$			9.8	9.0	8.9
NO_2	446500, 293500	R43 – R45	14.0	10.2	9.0
PM_{10}			15.7	14.7	14.6
$PM_{2.5}$			9.6	8.8	8.7
NO_2	445500, 293500	R46	11.6	9.0	8.2
PM_{10}			14.0	13.0	12.9
$PM_{2.5}$			8.9	8.1	8.1
NO_2	446500, 292500	R49	11.1	8.5	7.8
PM_{10}			13.7	12.7	12.6

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			8.7	7.9	7.9
NO_2	450500, 293500	STR2	9.8	7.7	7.1
PM_{10}			13.8	12.8	12.7
$PM_{2.5}$			8.7	7.9	7.8
Hinckley and Bosworth Borough Council					
NO_2	441500, 295500	R78, R163, R164	11.7	9.1	8.4
PM_{10}			13.9	12.9	12.9
$PM_{2.5}$			8.8	8.1	8.0
NO_2	443500, 301500	R79	8.9	7.2	6.8
PM_{10}			14.6	13.6	13.6
$PM_{2.5}$			8.7	7.9	7.9
NO_2	443500, 299500	R80	9.3	7.5	6.9
PM_{10}			13.2	12.2	12.2
$PM_{2.5}$			8.4	7.7	7.6
NO_2	443500, 298500	R81 and R82	9.7	7.7	7.1

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.1	12.2	12.1
$PM_{2.5}$			8.5	7.7	7.6
NO_2	444500, 296500	R83 and R179	11.3	8.9	8.3
PM_{10}			13.4	12.4	12.4
$PM_{2.5}$			8.8	8.0	8.0
NO_2	444500, 297500	R84 and R85	10.7	8.5	8.0
PM_{10}			13.4	12.4	12.3
$PM_{2.5}$			8.8	8.0	8.0
NO_2	444500, 296500	R86 and R87	11.3	8.9	8.3
PM_{10}			13.4	12.4	12.4
$PM_{2.5}$			8.8	8.0	8.0
NO_2	443500, 296500	R88 and R90	10.8	8.5	7.9
PM_{10}			13.9	12.9	12.8
$PM_{2.5}$			8.8	8.0	8.0
NO_2	4424500, 296500	R89	9.7	7.8	7.2

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.8	12.8	12.7
$PM_{2.5}$			8.6	7.8	7.8
NO_2	443500, 295500	R91 – R94	12.0	9.4	8.7
PM_{10}			13.6	12.6	12.6
$PM_{2.5}$			8.9	8.1	8.1
NO_2	442500, 294500	R95, R97 – R100, R116, R117 and STR7	13.5	10.8	10.1
PM_{10}			13.9	12.9	12.8
$PM_{2.5}$			9.3	8.5	8.5
NO_2	443500, 294500	R96, R113 – R115	12.5	9.9	9.2
PM_{10}			13.4	12.4	12.3
$PM_{2.5}$			9.0	8.2	8.1
NO_2	442500, 294300	R101 – R103, R142 – R144 and R174	15.6	12.9	12.2
PM_{10}			14.0	12.9	12.9
$PM_{2.5}$			9.4	8.5	8.5
NO_2	443500, 291500		13.9	10.3	9.3

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}		R104, R108, R109, R137 – R141 and R154 – R157	14.9	13.9	13.8
$PM_{2.5}$			9.5	8.7	8.6
NO_2	442500, 292500	R105 - R107	13.0	10.3	9.7
PM_{10}			13.6	12.6	12.6
$PM_{2.5}$			9.0	8.2	8.1
NO_2	445500, 296500	R110	10.8	8.4	7.8
PM_{10}			14.0	13.0	13.0
$PM_{2.5}$			8.9	8.1	8.0
NO_2	444500, 295500	R111	10.7	8.5	7.9
PM_{10}			13.7	12.8	12.7
$PM_{2.5}$			8.7	7.9	7.9
NO_2	443500, 295500	R112	12.0	9.4	8.7
PM_{10}			13.6	12.6	12.6
$PM_{2.5}$			8.9	8.1	8.1
NO_2	443500, 294500	R113 – R115	12.5	9.9	9.2

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.4	12.4	12.3
$PM_{2.5}$			9.0	8.2	8.1
NO_2	443500, 293500	R118 – R123, R145 – R147, R175 and R176	13.1	10.5	9.8
PM_{10}			13.7	12.6	12.6
$PM_{2.5}$			9.2	8.4	8.4
NO_2	444500, 293500	R124 – R127, R129	11.4	8.9	8.3
PM_{10}			13.3	12.3	12.2
$PM_{2.5}$			8.8	8.0	7.9
NO_2	444500, 292500	R128, R130 – R133, R177	11.9	9.2	8.5
PM_{10}			13.4	12.3	12.3
$PM_{2.5}$			8.8	8.0	8.0
NO_2	444500, 291500	R134 – R136	13.9	10.1	9.0
PM_{10}			15.1	14.1	14.1
$PM_{2.5}$			9.4	8.6	8.6
NO_2	443500, 292500	R148 – R153	12.6	9.9	9.2

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.8	12.7	12.7
$PM_{2.5}$			9.2	8.4	8.4
NO_2	442500, 291500	R158	13.1	10.2	9.4
PM_{10}			14.5	13.5	13.5
$PM_{2.5}$			9.2	8.4	8.3
NO_2	440500, 292500	R159, R160	13.8	10.9	10.1
PM_{10}			14.9	13.8	13.8
$PM_{2.5}$			9.3	8.5	8.5
NO_2	440500, 294500	R161, R162	12.0	9.4	8.7
PM_{10}			14.7	13.7	13.7
$PM_{2.5}$			9.1	8.3	8.3
NO_2	441500, 300500	R165 and R166	8.5	6.9	6.5
PM_{10}			13.5	12.5	12.5
$PM_{2.5}$			8.3	7.6	7.5
NO_2	435500, 297500	R167	9.2	7.3	6.8

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.5	12.5	12.5
$PM_{2.5}$			8.4	7.6	7.6
NO_2	434500, 296500	R168 and R169	10.2	8.1	7.5
PM_{10}			13.7	12.8	12.7
$PM_{2.5}$			8.4	7.7	7.6
NO_2	447500, 296500	R171	11.7	8.8	8.0
PM_{10}			14.5	13.5	13.4
$PM_{2.5}$			9.0	8.2	8.2
NO_2	445500, 289500	R172	10.8	8.3	7.6
PM_{10}			14.7	13.7	13.6
$PM_{2.5}$			9.0	8.2	8.2
NO_2	442500, 295500	R173	12.3	9.6	8.9
PM_{10}			13.7	12.7	12.6
$PM_{2.5}$			8.9	8.1	8.1
NO_2	443500, 297500	R178	9.7	7.7	7.2

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.3	12.3	12.3
$PM_{2.5}$			8.5	7.7	7.7
NO_2	448500, 308500	R180 and R181	15.5	11.0	9.6
PM_{10}			16.1	15.1	15.1
$PM_{2.5}$			9.7	8.9	8.9
Charnwood Borough Council					
NO_2	448500, 320500	R54 and R188	15.9	11.4	10.0
PM_{10}			16.7	15.8	15.7
$PM_{2.5}$			9.9	9.1	9.1
NO_2	448500, 319500	R55	15.7	11.5	10.3
PM_{10}			16.3	15.3	15.2
$PM_{2.5}$			10.1	9.3	9.2
Coventry City Council					
NO_2	437500, 282500	R56 and R57	18.3	13.4	11.9
PM_{10}			16.2	15.1	15.0

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			10.6	9.7	9.7
NO_2	435500, 284500	R58	24.0	17.7	15.9
PM_{10}			16.8	15.7	15.6
$PM_{2.5}$			10.9	10.0	9.9
NO_2	438500, 282500	STR4 and STR5	21.5	15.2	13.3
PM_{10}			17.1	16.0	16.0
$PM_{2.5}$			10.6	9.7	9.7
West Northamptonshire Council					
NO_2	456500, 276500	R59	14.8	10.0	8.6
PM_{10}			15.6	14.5	14.4
$PM_{2.5}$			9.7	8.8	8.8
NO_2	457500, 273500	R60	15.2	10.3	8.8
PM_{10}			15.5	14.4	14.4
$PM_{2.5}$			9.7	8.8	8.8
NO_2	457500, 272500	STR6	15.5	10.4	8.9

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			15.6	14.5	14.4
$PM_{2.5}$			9.7	8.9	8.8
Erewash Borough Council					
NO_2	447500, 333500	R61. R62 and R63	19.5	14.1	12.5
PM_{10}			15.2	14.2	14.2
$PM_{2.5}$			9.7	8.9	8.9
Harborough District Council					
NO_2	450500, 283500	R64	9.5	7.2	6.6
PM_{10}			14.5	13.5	13.4
$PM_{2.5}$			8.9	8.1	8.0
NO_2	448500, 287500	R65	9.8	7.6	6.9
PM_{10}			14.8	13.8	13.7
$PM_{2.5}$			8.9	8.1	8.1
NO_2	447500, 287500	R66	9.5	7.4	6.9
PM_{10}			14.2	13.2	13.1

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			8.7	7.9	7.9
NO_2	454500, 282500	R67	14.2	10.0	8.7
PM_{10}			16.7	15.6	15.6
$PM_{2.5}$			10.0	9.2	9.1
NO_2	454500, 286500	R68	14.1	9.8	8.5
PM_{10}			15.5	14.5	14.4
$PM_{2.5}$			9.6	8.7	8.7
NO_2	450500, 290500	R69 – R71	9.1	7.2	6.7
PM_{10}			13.9	12.9	12.8
$PM_{2.5}$			8.6	7.8	7.7
NO_2	452500, 292500	R53, R72 and R73	9.6	7.6	7.0
PM_{10}			13.5	12.5	12.5
$PM_{2.5}$			8.6	7.8	7.8
NO_2	453500, 284500	R74 and R77	10.6	8.1	7.4
PM_{10}			14.2	13.2	13.1

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			9.0	8.2	8.2
NO_2	449500, 288500	R75 and R76	9.3	7.3	6.8
PM_{10}			13.5	12.5	12.4
$PM_{2.5}$			8.6	7.8	7.7
North Warwickshire Borough Council					
NO_2	431500, 298500	R182, R185 and R186	11.7	9.3	8.7
PM_{10}			12.6	11.7	11.6
$PM_{2.5}$			8.3	7.6	7.5
NO_2	428500, 298500	R183 and R184	11.0	8.6	8.0
PM_{10}			12.8	11.9	11.8
$PM_{2.5}$			8.2	7.5	7.4
NO_2	433500, 312500	R187	11.2	8.6	7.8
PM_{10}			13.5	12.5	12.4
$PM_{2.5}$			8.5	7.7	7.7
NO_2	424500, 300500	R213	17.0	12.0	10.5

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			16.0	15.0	15.0
$PM_{2.5}$			9.6	8.9	8.8
Nuneaton and Bedworth Borough Council					
NO_2	435500, 284500	R189	24.0	17.7	15.9
PM_{10}			16.8	15.7	15.6
$PM_{2.5}$			10.9	10.0	9.9
NO_2	434500, 284500	R190	19.6	14.5	13.0
PM_{10}			16.6	15.5	15.5
$PM_{2.5}$			10.7	9.8	9.8
NO_2	439500, 293500	R191, R192, STR8 and STR10	15.0	11.9	11.0
PM_{10}			14.5	13.5	13.4
$PM_{2.5}$			9.3	8.5	8.4
North West Leicestershire District Council					
NO_2	447500, 326500	R193	21.4	15.2	13.2
PM_{10}			15.9	15.0	14.9

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			9.5	8.7	8.7
NO_2	446500, 323500	R194, R199 and R200	16.3	11.6	10.1
PM_{10}			16.2	15.2	15.2
$PM_{2.5}$			9.5	8.7	8.7
NO_2	441500, 322500	R195	12.7	9.3	8.4
PM_{10}			16.4	15.5	15.4
$PM_{2.5}$			9.4	8.6	8.6
NO_2	440500, 322500	R196	11.2	8.5	7.8
PM_{10}			14.6	13.6	13.6
$PM_{2.5}$			8.7	8.0	7.9
NO_2	436500, 315500	R197	11.9	8.8	7.9
PM_{10}			14.7	13.8	13.8
$PM_{2.5}$			8.9	8.1	8.1
NO_2	433500, 312500	R198	11.2	8.6	7.8
PM_{10}			13.5	12.5	12.4

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
$PM_{2.5}$			8.5	7.7	7.7
NO_2	447500, 327500	STR11	16.7	14.3	7.8
PM_{10}			17.1	16.1	16.1
$PM_{2.5}$			9.9	9.1	9.1
NO_2	437500, 317500	STR12	14.1	10.2	9.0
PM_{10}			15.0	14.1	14.0
$PM_{2.5}$			9.2	8.4	8.4
NO_2	430500, 310500	STR13	11.6	8.5	7.5
PM_{10}			15.1	14.2	14.2
$PM_{2.5}$			8.9	8.2	8.2
Rugby Borough Council					
NO_2	439500, 284500	R201	14.9	11.0	9.8
PM_{10}			15.7	14.6	14.6
$PM_{2.5}$			9.8	9.0	9.0
NO_2	440500, 285500	R202	14.4	10.6	9.5

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			15.9	14.9	14.9
$PM_{2.5}$			9.7	8.9	8.9
NO_2	441500, 282500	R203	16.4	11.5	10.1
PM_{10}			16.2	15.2	15.1
$PM_{2.5}$			10.0	9.2	9.1
NO_2	440500, 282500	R204	17.3	12.2	10.6
PM_{10}			16.8	15.7	15.7
$PM_{2.5}$			10.2	9.4	9.3
NO_2	452500, 280500	R205 and R206	11.8	8.6	7.7
PM_{10}			16.8	15.8	15.7
$PM_{2.5}$			9.9	9.1	9.0
NO_2	443500, 290500	R207	13.5	10.1	9.1
PM_{10}			15.4	14.4	14.4
$PM_{2.5}$			9.4	8.7	8.6
NO_2	443500, 288500	R208 – R210	12.1	9.7	9.1

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
PM_{10}			13.8	12.7	12.7
$PM_{2.5}$			8.8	7.9	7.9
NO_2	454500, 277500	R211 and R212	10.5	7.8	7.1
PM_{10}			14.5	13.5	13.4
$PM_{2.5}$			9.1	8.3	8.2
Tamworth Borough Council					
NO_2	423500, 285500	R214 and STR9	13.9	10.6	9.6
PM_{10}			15.0	14.0	14.0
$PM_{2.5}$			9.6	8.9	8.9
NO_2	422500, 302500	R215, R216 and R218	14.5	11.1	10.2
PM_{10}			14.7	13.7	13.7
$PM_{2.5}$			9.6	8.8	8.8
NO_2	421500, 302500	R217	15.8	12.5	11.6
PM_{10}			14.5	13.5	13.4
$PM_{2.5}$			9.5	8.8	8.7

Pollutant	Grid Square	Receptors	Background Concentration ($\mu g.m^{-3}$)		
			2019	2026	2030
NO_2	444500, 295500	R219	10.7	8.5	7.9
PM_{10}			13.7	12.8	12.7
$PM_{2.5}$			8.7	7.9	7.9

2019, 2026 and 2030 background concentrations are all below the relevant annual mean air quality objectives for NO_2, PM_{10} and $PM_{2.5}$. A review of Defra background concentration maps[1] highlighted a significant contribution of residual and secondary particulate matter towards the total background PM_{10} concentration. It is likely that this contributes towards background PM_{10} concentrations exceeding background NO_2 concentrations in some grid squares considered in the assessment.