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 9.15: Air Quality Operational Phase Back-Up CHP Emissions Assessment - Human Receptor Results

Document reference: 6.2.9.15

Revision: 02

November 2022

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 6.2.9.15: AIR QUALITY OPERATIONAL PHASE BACK-UP CHP EMISSIONS ASSESSMENT - HUMAN RECEPTOR RESULTS

The results of the assessment for the existing receptor locations are provided for each local authority.

Blaby District Council

2026 Opening Year

Table 15.1: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Blaby District Council in 2026 Opening Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	9.1	9.2	+0.2	0	Negligible
R2	9.5	9.7	+0.2	+1	Negligible
R3	9.9	10.2	+0.3	+1	Negligible
R4	11.9	12.0	+0.1	0	Negligible
R5	10.9	11.0	+0.1	0	Negligible
R6	11.3	11.4	+0.1	0	Negligible
R7	11.3	11.4	+0.1	0	Negligible
R8	11.0	11.1	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R9	10.8	10.9	+0.1	0	Negligible
R10	9.7	9.8	+0.1	0	Negligible
R11	9.1	9.2	+0.1	0	Negligible
R12	9.9	9.9	+0.1	0	Negligible
R13	9.2	9.3	+0.1	0	Negligible
R14	9.4	9.5	+0.1	0	Negligible
R15	9.8	9.8	+0.1	0	Negligible
R16	9.1	9.1	+0.1	0	Negligible
R17	9.3	9.4	+0.1	0	Negligible
R18	8.8	8.8	+0.1	0	Negligible
R19	9.1	9.1	+0.1	0	Negligible
R20	8.7	8.7	0.0	0	Negligible
R21	8.7	8.7	0.0	0	Negligible
R22	8.6	8.6	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R23	8.5	8.5	0.0	0	Negligible
R24	8.7	8.7	0.0	0	Negligible
R25	8.6	8.7	0.0	0	Negligible
R26	8.6	8.7	0.0	0	Negligible
R27	9.7	9.7	0.0	0	Negligible
R28	9.4	9.4	0.0	0	Negligible
R29	10.3	10.4	0.0	0	Negligible
R30	9.9	10.0	0.0	0	Negligible
R31	10.9	10.9	0.0	0	Negligible
R32	9.9	9.9	0.0	0	Negligible
R33	11.6	11.6	0.0	0	Negligible
R34	11.4	11.4	0.0	0	Negligible
R35	11.3	11.3	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R36	16.5	16.5	0.0	0	Negligible
R37	14.0	14.0	0.0	0	Negligible
R38	14.5	14.5	0.0	0	Negligible
R42	16.1	16.1	0.0	0	Negligible
R43	11.2	11.5	+0.2	+1	Negligible
R44	11.5	11.8	+0.3	+1	Negligible
R45	10.9	11.2	+0.3	+1	Negligible
R46	9.7	9.9	+0.3	+1	Negligible
R47	9.1	9.2	+0.2	0	Negligible
R48	9.2	9.4	+0.1	0	Negligible
R49	10.0	10.0	+0.1	0	Negligible
R50	13.1	13.1	0.0	0	Negligible
R51	12.6	12.6	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 15.2: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Blaby District Council in 2036 Future Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	8.3	8.4	+0.2	0	Negligible
R2	8.6	8.8	+0.2	+1	Negligible
R3	8.9	9.2	+0.3	+1	Negligible
R4	10.4	10.5	+0.1	0	Negligible
R5	10.0	10.2	+0.1	0	Negligible
R6	10.3	10.5	+0.1	0	Negligible
R7	10.4	10.5	+0.1	0	Negligible
R8	10.1	10.2	+0.1	0	Negligible
R9	10.0	10.1	+0.1	0	Negligible
R10	8.8	8.9	+0.1	0	Negligible
R11	8.3	8.4	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R12	8.7	8.8	+0.1	0	Negligible
R13	8.3	8.4	+0.1	0	Negligible
R14	8.4	8.5	+0.1	0	Negligible
R15	8.7	8.8	+0.1	0	Negligible
R16	8.3	8.3	+0.1	0	Negligible
R17	8.5	8.5	+0.1	0	Negligible
R18	8.0	8.0	+0.1	0	Negligible
R19	8.3	8.4	+0.1	0	Negligible
R20	7.9	7.9	0.0	0	Negligible
R21	7.9	7.9	0.0	0	Negligible
R22	7.8	7.8	0.0	0	Negligible
R23	7.7	7.8	0.0	0	Negligible
R24	7.9	7.9	0.0	0	Negligible
R25	7.9	7.9	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R26	7.9	7.9	0.0	0	Negligible
R27	8.5	8.5	0.0	0	Negligible
R28	8.2	8.3	0.0	0	Negligible
R29	9.4	9.4	0.0	0	Negligible
R30	9.1	9.1	0.0	0	Negligible
R31	9.9	10.0	0.0	0	Negligible
R32	9.0	9.1	0.0	0	Negligible
R33	10.4	10.4	0.0	0	Negligible
R34	10.2	10.2	0.0	0	Negligible
R35	10.2	10.2	0.0	0	Negligible
R36	13.7	13.7	0.0	0	Negligible
R37	12.0	12.0	0.0	0	Negligible
R38	12.6	12.6	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R42	13.1	13.1	0.0	0	Negligible
R43	9.7	10.0	+0.2	+1	Negligible
R44	9.9	10.2	+0.3	+1	Negligible
R45	9.5	9.8	+0.3	+1	Negligible
R46	8.7	9.0	+0.3	+1	Negligible
R47	8.3	8.4	+0.2	0	Negligible
R48	8.4	8.5	+0.1	0	Negligible
R49	8.8	8.9	+0.1	0	Negligible
R50	11.4	11.4	0.0	0	Negligible
R51	11.0	11.0	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

Harborough District Council

2026 Opening Year

Table 15.3: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Harborough District Council in 2026 Opening Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	8.7	8.8	0.0	0	Negligible
R65	15.0	15.0	0.0	0	Negligible
R66	10.2	10.2	0.0	0	Negligible
R69	9.6	9.6	0.0	0	Negligible
R70	9.7	9.8	0.0	0	Negligible
R71	10.1	10.1	0.0	0	Negligible
R72	10.7	10.7	0.0	0	Negligible
R73	10.6	10.6	0.0	0	Negligible
R75	9.5	9.5	0.0	0	Negligible
R76	9.6	9.6	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 15.4: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Harborough District Council in 2036 Future Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	7.9	7.9	0.0	0	Negligible
R65	12.2	12.2	0.0	0	Negligible
R66	8.8	8.8	0.0	0	Negligible
R69	8.6	8.6	0.0	0	Negligible
R70	8.7	8.7	0.0	0	Negligible
R71	9.2	9.2	0.0	0	Negligible
R72	9.4	9.4	0.0	0	Negligible
R73	9.3	9.3	0.0	0	Negligible
R75	8.4	8.4	0.0	0	Negligible
R76	8.5	8.5	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

Hinckley & Bosworth Borough Council

2026 Opening Year

Table 15.5: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Hinckley & Bosworth Borough Council in 2026 Opening Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	9.9	9.9	0.0	0	Negligible
R79	11.7	11.7	0.0	0	Negligible
R80	9.5	9.5	0.0	0	Negligible
R81	11.1	11.1	0.0	0	Negligible
R82	10.7	10.7	0.0	0	Negligible
R83	10.9	11.0	0.0	0	Negligible
R84	10.9	10.9	0.0	0	Negligible
R85	10.1	10.1	0.0	0	Negligible
R86	10.8	10.8	+0.1	0	Negligible
R87	10.4	10.5	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R88	9.6	9.6	+0.1	0	Negligible
R89	8.6	8.7	0.0	0	Negligible
R90	10.3	10.3	0.0	0	Negligible
R91	13.1	13.2	0.0	0	Negligible
R92	12.6	12.7	0.0	0	Negligible
R93	12.1	12.2	0.0	0	Negligible
R94	11.7	11.7	0.0	0	Negligible
R95	12.2	12.2	0.0	0	Negligible
R96	14.2	14.3	0.0	0	Negligible
R97	13.5	13.5	0.0	0	Negligible
R98	14.7	14.8	0.0	0	Negligible
R99	14.5	14.5	0.0	0	Negligible
R100	14.5	14.6	0.0	0	Negligible
R101	17.0	17.0	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R102	16.3	16.3	0.0	0	Negligible
R103	16.3	16.3	0.0	0	Negligible
R104	13.8	13.8	0.0	0	Negligible
R105	14.2	14.3	0.0	0	Negligible
R106	15.2	15.2	0.0	0	Negligible
R107	13.4	13.4	0.0	0	Negligible
R108	14.0	14.0	0.0	0	Negligible
R109	15.0	15.0	0.0	0	Negligible
R110	12.0	12.2	+0.1	0	Negligible
R111	11.8	11.9	+0.1	0	Negligible
R112	12.8	12.9	+0.1	0	Negligible
R113	12.5	12.5	0.0	0	Negligible
R114	14.2	14.3	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R115	12.0	12.0	0.0	0	Negligible
R116	12.9	12.9	0.0	0	Negligible
R117	13.1	13.2	0.0	0	Negligible
R118	13.4	13.5	+0.1	0	Negligible
R119	16.3	16.3	+0.1	0	Negligible
R120	14.3	14.3	+0.1	0	Negligible
R121	14.0	14.0	+0.1	0	Negligible
R122	14.4	14.5	+0.1	0	Negligible
R123	14.2	14.3	+0.1	0	Negligible
R124	12.5	12.6	+0.1	0	Negligible
R125	12.5	12.6	+0.1	0	Negligible
R126	11.6	11.7	+0.1	0	Negligible
R127	11.8	11.9	+0.1	0	Negligible
R128	12.2	12.3	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R129	13.2	13.3	+0.1	0	Negligible
R130	13.4	13.5	+0.1	0	Negligible
R131	12.5	12.5	0.0	0	Negligible
R132	12.7	12.7	0.0	0	Negligible
R133	12.8	12.8	0.0	0	Negligible
R134	16.8	16.8	0.0	0	Negligible
R135	16.1	16.2	0.0	0	Negligible
R136	15.6	15.6	0.0	0	Negligible
R137	13.6	13.6	0.0	0	Negligible
R138	13.6	13.7	0.0	0	Negligible
R139	14.1	14.1	0.0	0	Negligible
R140	13.8	13.8	0.0	0	Negligible
R141	14.6	14.6	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R142	14.8	14.8	0.0	0	Negligible
R143	14.9	15.0	0.0	0	Negligible
R144	14.7	14.8	0.0	0	Negligible
R145	11.8	11.9	+0.1	0	Negligible
R146	12.4	12.5	+0.1	0	Negligible
R147	11.7	11.8	+0.1	0	Negligible
R148	12.5	12.6	+0.1	0	Negligible
R149	11.4	11.5	+0.1	0	Negligible
R150	11.6	11.7	+0.1	0	Negligible
R151	11.4	11.5	+0.1	0	Negligible
R152	11.4	11.5	+0.1	0	Negligible
R153	12.2	12.3	+0.1	0	Negligible
R154	13.3	13.3	0.0	0	Negligible
R155	14.9	14.9	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R156	15.2	15.3	0.0	0	Negligible
R157	13.6	13.6	0.0	0	Negligible
R158	18.0	18.0	0.0	0	Negligible
R159	12.8	12.8	0.0	0	Negligible
R160	15.2	15.2	0.0	0	Negligible
R161	11.6	11.6	0.0	0	Negligible
R162	12.2	12.2	0.0	0	Negligible
R163	12.5	12.5	0.0	0	Negligible
R164	11.0	11.0	0.0	0	Negligible
R165	8.9	8.9	0.0	0	Negligible
R166	8.7	8.7	0.0	0	Negligible
R170	10.8	11.0	+0.2	0	Negligible
R171	10.0	10.2	+0.2	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R172	11.9	11.9	0.0	0	Negligible
R173	10.3	10.4	0.0	0	Negligible
R174	13.9	14.0	0.0	0	Negligible
R175	11.6	11.7	+0.1	0	Negligible
R176	11.6	11.7	+0.1	0	Negligible
R177	10.6	10.6	0.0	0	Negligible
R178	9.9	9.9	0.0	0	Negligible
R179	13.1	13.2	+0.1	0	Negligible
R219	11.0	11.1	+0.2	0	Negligible

* *Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 15.6: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Hinckley & Bosworth Borough Council in 2036 Future Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	8.9	9.0	0.0	0	Negligible
R79	10.1	10.1	0.0	0	Negligible
R80	8.4	8.5	0.0	0	Negligible
R81	9.7	9.7	0.0	0	Negligible
R82	9.4	9.4	0.0	0	Negligible
R83	9.9	9.9	0.0	0	Negligible
R84	9.9	10.0	0.0	0	Negligible
R85	9.2	9.2	0.0	0	Negligible
R86	9.7	9.8	+0.1	0	Negligible
R87	9.5	9.5	+0.1	0	Negligible
R88	8.7	8.7	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R89	7.9	7.9	0.0	0	Negligible
R90	9.1	9.2	0.0	0	Negligible
R91	11.2	11.2	0.0	0	Negligible
R92	10.9	10.9	0.0	0	Negligible
R93	10.5	10.6	0.0	0	Negligible
R94	10.2	10.3	0.0	0	Negligible
R95	11.1	11.1	0.0	0	Negligible
R96	12.4	12.4	0.0	0	Negligible
R97	12.0	12.0	0.0	0	Negligible
R98	12.8	12.9	0.0	0	Negligible
R99	12.6	12.7	0.0	0	Negligible
R100	12.6	12.6	0.0	0	Negligible
R101	15.0	15.0	0.0	0	Negligible
R102	14.6	14.6	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R103	14.5	14.6	0.0	0	Negligible
R104	11.6	11.7	0.0	0	Negligible
R105	12.3	12.4	0.0	0	Negligible
R106	13.0	13.0	0.0	0	Negligible
R107	11.8	11.8	0.0	0	Negligible
R108	11.8	11.8	0.0	0	Negligible
R109	12.5	12.5	0.0	0	Negligible
R110	10.2	10.3	+0.1	0	Negligible
R111	10.2	10.3	+0.1	0	Negligible
R112	11.1	11.1	+0.1	0	Negligible
R113	11.1	11.1	0.0	0	Negligible
R114	12.5	12.5	0.0	0	Negligible
R115	10.7	10.7	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R116	11.5	11.6	0.0	0	Negligible
R117	11.7	11.7	0.0	0	Negligible
R118	11.9	12.0	+0.1	0	Negligible
R119	14.0	14.0	+0.1	0	Negligible
R120	12.4	12.5	+0.1	0	Negligible
R121	12.2	12.3	+0.1	0	Negligible
R122	12.6	12.6	+0.1	0	Negligible
R123	12.4	12.5	+0.1	0	Negligible
R124	10.8	10.9	+0.1	0	Negligible
R125	10.9	11.0	+0.1	0	Negligible
R126	10.2	10.3	+0.1	0	Negligible
R127	10.3	10.4	+0.1	0	Negligible
R128	10.6	10.6	+0.1	0	Negligible
R129	11.4	11.5	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R130	11.6	11.6	+0.1	0	Negligible
R131	10.8	10.9	0.0	0	Negligible
R132	11.1	11.1	0.0	0	Negligible
R133	11.2	11.3	0.0	0	Negligible
R134	14.0	14.1	0.0	0	Negligible
R135	14.3	14.3	0.0	0	Negligible
R136	13.8	13.8	0.0	0	Negligible
R137	11.5	11.5	0.0	0	Negligible
R138	11.6	11.6	0.0	0	Negligible
R139	11.8	11.9	0.0	0	Negligible
R140	11.7	11.7	0.0	0	Negligible
R141	12.2	12.2	0.0	0	Negligible
R142	13.5	13.5	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R143	13.6	13.6	0.0	0	Negligible
R144	13.5	13.5	0.0	0	Negligible
R145	10.7	10.8	+0.1	0	Negligible
R146	11.1	11.2	+0.1	0	Negligible
R147	10.7	10.7	+0.1	0	Negligible
R148	11.0	11.0	+0.1	0	Negligible
R149	10.2	10.3	+0.1	0	Negligible
R150	10.3	10.4	+0.1	0	Negligible
R151	10.2	10.3	+0.1	0	Negligible
R152	10.2	10.3	+0.1	0	Negligible
R153	10.8	10.9	+0.1	0	Negligible
R154	11.3	11.3	0.0	0	Negligible
R155	12.5	12.5	0.0	0	Negligible
R156	12.7	12.7	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R157	11.5	11.6	0.0	0	Negligible
R158	14.9	14.9	0.0	0	Negligible
R159	11.4	11.4	0.0	0	Negligible
R160	13.1	13.1	0.0	0	Negligible
R161	10.2	10.3	0.0	0	Negligible
R162	10.7	10.7	0.0	0	Negligible
R163	10.8	10.9	0.0	0	Negligible
R164	9.8	9.8	0.0	0	Negligible
R165	8.0	8.0	0.0	0	Negligible
R166	7.8	7.8	0.0	0	Negligible
R170	9.5	9.7	+0.2	0	Negligible
R171	8.8	9.0	+0.2	0	Negligible
R172	10.1	10.1	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R173	9.4	9.4	0.0	0	Negligible
R174	12.9	13.0	0.0	0	Negligible
R175	10.6	10.6	+0.1	0	Negligible
R176	10.6	10.6	+0.1	0	Negligible
R177	9.4	9.5	0.0	0	Negligible
R178	8.8	8.8	0.0	0	Negligible
R179	11.8	11.8	+0.1	0	Negligible
R219	9.6	9.8	+0.2	0	Negligible

* *Discrepancies in changes due to rounding effects.*

Nuneaton and Bedworth Borough Council

2026 Opening Year

Table 15.7: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Nuneaton and Bedworth Borough Council in 2026 Opening Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R191	14.8	14.8	0.0	0	Negligible
R192	15.5	15.5	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 15.8: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Nuneaton and Bedworth Borough Council in 2036 Future Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R191	13.0	13.0	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R192	13.4	13.4	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

Rugby Borough Council

2026 Opening Year

Table 15.9: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Rugby Borough Council in 2026 Opening Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2026 With HNRFI ($\mu g.m^{-3}$)	2026 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R207	14.4	14.5	0.0	0	Negligible
R208	14.8	14.8	0.0	0	Negligible
R209	13.1	13.1	0.0	0	Negligible
R210	13.6	13.6	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 15.10: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations within Rugby Borough Council in 2036 Future Year.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	2036 With HNRFI ($\mu g.m^{-3}$)	2036 With HNRFI and Back-up CHP ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R207	12.1	12.1	0.0	0	Negligible
R208	12.8	12.8	0.0	0	Negligible
R209	11.5	11.5	0.0	0	Negligible
R210	12.0	12.0	0.0	0	Negligible

* *Discrepancies in changes due to rounding effects.*