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 9.11: Air Quality Operational Phase Road Traffic Emissions Assessment - Human Receptor Results

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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 6.2.9.11: AIR QUALITY OPERATIONAL PHASE ROAD TRAFFIC EMISSIONS ASSESSMENT – HUMAN RECEPTOR FULL RESULTS

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

Blaby District Council

2019 Base and Model Verification Year

Table 11.1: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R1	12.3	14.3	9.0
R2	12.8	13.9	8.9
R3	13.8	14.9	9.2
R4	17.1	16.5	10.0
R5	14.3	16.3	11.1
R6	15.2	16.5	11.2
R7	15.3	16.5	11.2
R8	14.3	16.3	11.1
R9	15.2	16.5	11.2

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (μg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R10	13.2	14.2	9.2
R11	12.3	14.0	9.1
R12	12.6	13.8	9.0
R13	11.9	13.6	8.9
R14	12.1	13.7	9.0
R15	12.7	13.8	9.0
R16	11.6	13.9	8.9
R17	11.8	14.0	8.9
R18	11.3	13.9	8.9
R19	12.1	14.0	9.1
R20	12.5	13.8	8.8
R21	12.3	13.8	8.8
R22	12.1	13.7	8.8
R23	11.9	13.7	8.8
R24	12.2	14.4	9.0

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R25	12.1	14.3	9.0
R26	11.1	14.2	8.8
R27	13.9	14.8	9.2
R28	13.2	15.1	9.3
R29	13.4	14.5	9.1
R30	13.0	14.4	9.1
R31	14.1	15.0	9.2
R32	13.0	14.4	9.1
R33	16.1	14.3	9.4
R34	15.6	14.3	9.3
R35	15.3	14.2	9.3
R36	26.3	17.2	10.9
R37	20.8	17.0	10.5
R38	22.8	16.8	10.6

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (μg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R39	32.7	17.9	11.2
R40	36.5	18.3	11.5
R41	24.3	16.0	10.1
R42	24.0	16.7	10.5
R43	15.7	15.9	9.7
R44	15.8	15.9	9.7
R45	15.2	15.9	9.7
R46	12.9	14.2	9.0
R47	12.3	14.3	9.0
R48	12.4	14.4	9.0
R49	13.6	13.9	8.9
R50	19.0	16.1	10.2
R51	17.9	16.5	10.3
R52	26.3	17.2	10.8
STR1	*12.5*	*13.8*	*8.8*

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
STR2	*11.6*	*14.1*	*8.9*
STR3	*17.2*	*16.4*	*10.0*

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.2: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration (µg.m^{-3})				
	Scenario 4: 2026 Without HNRFI (µg.m^{-3})	Scenario 5: 2026 With HNRFI (µg.m^{-3})	Concentration Change* (µg.m^{-3})	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	9.1	9.1	0.0	0	Negligible
R2	9.5	9.5	0.0	0	Negligible
R3	10.0	9.9	-0.1	0	Negligible
R4	11.9	11.9	-0.1	0	Negligible
R5	11.0	10.9	-0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R6	11.4	11.3	-0.1	0	Negligible
R7	11.5	11.3	-0.1	0	Negligible
R8	11.0	11.0	0.0	0	Negligible
R9	10.8	10.8	+0.1	0	Negligible
R10	9.7	9.7	+0.1	0	Negligible
R11	9.1	9.1	-0.1	0	Negligible
R12	9.3	9.9	+0.5	+1	Negligible
R13	8.9	9.2	+0.3	+1	Negligible
R14	9.1	9.4	+0.3	+1	Negligible
R15	9.4	9.8	+0.4	+1	Negligible
R16	9.0	9.1	+0.1	0	Negligible
R17	9.2	9.3	+0.1	0	Negligible
R18	8.6	8.8	+0.2	0	Negligible
R19	9.1	9.1	-0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R20	9.0	8.7	-0.3	-1	Negligible
R21	8.9	8.7	-0.3	-1	Negligible
R22	8.8	8.6	-0.2	-1	Negligible
R23	8.7	8.5	-0.2	-1	Negligible
R24	9.0	8.7	-0.3	-1	Negligible
R25	8.9	8.6	-0.3	-1	Negligible
R26	8.8	8.6	-0.2	0	Negligible
R27	9.7	9.7	-0.1	0	Negligible
R28	9.3	9.4	+0.1	0	Negligible
R29	10.2	10.3	+0.1	0	Negligible
R30	9.9	9.9	+0.1	0	Negligible
R31	10.8	10.9	+0.1	0	Negligible
R32	9.8	9.9	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R33	11.7	11.6	0.0	0	Negligible
R34	11.4	11.4	0.0	0	Negligible
R35	11.3	11.3	0.0	0	Negligible
R36	16.5	16.5	0.0	0	Negligible
R37	13.9	14.0	0.0	0	Negligible
R38	14.9	14.5	-0.4	-1	Negligible
R39	21.5	23.3	+1.8	+5	Negligible
R40	23.4	25.2	+1.8	+5	Negligible
R41	14.7	16.0	+1.3	+3	Negligible
R42	15.6	16.1	+0.6	+1	Negligible
R43	10.9	11.2	+0.3	+1	Negligible
R44	10.9	11.5	+0.6	+1	Negligible
R45	10.7	10.9	+0.2	0	Negligible
R46	9.5	9.7	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R47	9.1	9.1	0.0	0	Negligible
R48	9.2	9.2	0.0	0	Negligible
R49	9.4	10.0	+0.6	+2	Negligible
R50	13.1	13.1	0.0	0	Negligible
R51	12.6	12.6	0.0	0	Negligible
R52	18.4	18.4	0.0	0	Negligible
STR1	*9.0*	*8.7*	*-0.3*	*-1*	*Negligible*
STR2	*8.5*	*8.5*	*0.0*	*0*	*Negligible*
STR3	*12.0*	*11.9*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.3: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	13.3	13.3	0.0	0	Negligible
R2	12.9	12.9	0.0	0	Negligible
R3	13.9	13.9	-0.1	0	Negligible
R4	15.4	15.4	0.0	0	Negligible
R5	15.2	15.1	0.0	0	Negligible
R6	15.4	15.3	0.0	0	Negligible
R7	15.4	15.3	0.0	0	Negligible
R8	15.2	15.2	0.0	0	Negligible
R9	15.1	15.1	0.0	0	Negligible
R10	13.2	13.2	0.0	0	Negligible
R11	12.9	12.9	0.0	0	Negligible
R12	12.8	13.0	+0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R13	12.6	12.7	+0.1	0	Negligible
R14	12.7	12.8	+0.1	0	Negligible
R15	12.8	12.9	+0.1	0	Negligible
R16	13.1	13.1	0.0	0	Negligible
R17	13.2	13.2	0.0	0	Negligible
R18	12.9	12.9	+0.1	0	Negligible
R19	13.0	12.9	0.0	0	Negligible
R20	12.8	12.7	-0.1	0	Negligible
R21	12.8	12.7	-0.1	0	Negligible
R22	12.7	12.6	-0.1	0	Negligible
R23	12.7	12.6	-0.1	0	Negligible
R24	13.4	13.3	-0.1	0	Negligible
R25	13.4	13.3	-0.1	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R26	13.3	13.3	-0.1	0	Negligible
R27	13.8	13.8	0.0	0	Negligible
R28	14.1	14.2	+0.1	0	Negligible
R29	13.5	13.5	+0.1	0	Negligible
R30	13.4	13.4	0.0	0	Negligible
R31	14.0	14.0	0.0	0	Negligible
R32	13.4	13.4	0.0	0	Negligible
R33	13.3	13.3	0.0	0	Negligible
R34	13.2	13.2	0.0	0	Negligible
R35	13.1	13.1	0.0	0	Negligible
R36	16.0	16.0	0.0	0	Negligible
R37	15.8	15.8	0.0	0	Negligible
R38	15.6	15.4	-0.2	-1	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R39	16.7	16.9	+0.1	0	Negligible
R40	17.1	17.5	+0.3	+1	Negligible
R41	14.7	14.9	+0.2	0	Negligible
R42	15.5	15.7	+0.2	0	Negligible
R43	14.9	15.0	+0.1	0	Negligible
R44	14.9	15.1	+0.2	+1	Negligible
R45	14.8	14.9	+0.1	0	Negligible
R46	13.2	13.2	0.0	0	Negligible
R47	13.3	13.3	0.0	0	Negligible
R48	13.3	13.3	0.0	0	Negligible
R49	12.8	12.9	+0.1	0	Negligible
R50	15.0	15.0	0.0	0	Negligible
R51	15.5	15.5	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R52	16.1	16.1	0.0	0	Negligible
STR1	*12.8*	*12.7*	*-0.1*	*0*	*Negligible*
STR2	*13.1*	*13.1*	*0.0*	*0*	*Negligible*
STR3	*15.4*	*15.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.4: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	8.2	8.2	0.0	0	Negligible
R2	8.1	8.1	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R3	8.4	8.3	0.0	0	Negligible
R4	9.1	9.1	0.0	0	Negligible
R5	10.1	10.1	0.0	0	Negligible
R6	10.2	10.2	0.0	0	Negligible
R7	10.3	10.2	0.0	0	Negligible
R8	10.2	10.1	0.0	0	Negligible
R9	10.1	10.1	0.0	0	Negligible
R10	8.4	8.4	0.0	0	Negligible
R11	8.3	8.2	0.0	0	Negligible
R12	8.2	8.3	+0.1	+1	Negligible
R13	8.1	8.2	+0.1	0	Negligible
R14	8.1	8.2	+0.1	0	Negligible
R15	8.2	8.3	+0.1	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R16	8.2	8.2	0.0	0	Negligible
R17	8.3	8.3	0.0	0	Negligible
R18	8.1	8.1	0.0	0	Negligible
R19	8.3	8.2	0.0	0	Negligible
R20	8.0	8.0	-0.1	0	Negligible
R21	8.0	7.9	-0.1	0	Negligible
R22	8.0	7.9	-0.1	0	Negligible
R23	8.0	7.9	0.0	0	Negligible
R24	8.2	8.1	-0.1	0	Negligible
R25	8.2	8.1	-0.1	0	Negligible
R26	8.1	8.1	0.0	0	Negligible
R27	8.4	8.4	0.0	0	Negligible
R28	8.5	8.5	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R29	8.3	8.4	0.0	0	Negligible
R30	8.3	8.3	0.0	0	Negligible
R31	8.4	8.4	0.0	0	Negligible
R32	8.3	8.3	0.0	0	Negligible
R33	8.5	8.5	0.0	0	Negligible
R34	8.4	8.4	0.0	0	Negligible
R35	8.4	8.4	0.0	0	Negligible
R36	9.9	9.9	0.0	0	Negligible
R37	9.6	9.6	0.0	0	Negligible
R38	9.6	9.6	-0.1	0	Negligible
R39	10.3	10.4	+0.1	+1	Negligible
R40	10.5	10.8	+0.3	+1	Negligible
R41	9.1	9.2	+0.1	+1	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R42	9.6	9.8	+0.2	+1	Negligible
R43	8.9	9.0	+0.1	0	Negligible
R44	8.9	9.0	+0.1	+1	Negligible
R45	8.9	8.9	0.0	0	Negligible
R46	8.2	8.2	0.0	0	Negligible
R47	8.2	8.2	0.0	0	Negligible
R48	8.2	8.2	0.0	0	Negligible
R49	8.0	8.1	+0.1	0	Negligible
R50	9.3	9.3	0.0	0	Negligible
R51	9.4	9.4	0.0	0	Negligible
R52	9.9	9.9	0.0	0	Negligible
STR1	*8.0*	*8.0*	*-0.1*	*0*	*Negligible*
STR2	*8.0*	*8.0*	*0.0*	*0*	*Negligible*

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR3	*9.1*	*9.1*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036: Future Year

Table 11.5: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	8.3	8.3	0.0	0	Negligible
R2	8.6	8.6	0.0	0	Negligible
R3	9.0	8.9	-0.1	0	Negligible
R4	10.4	10.4	-0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R5	10.1	10.0	-0.1	0	Negligible
R6	10.4	10.3	-0.1	0	Negligible
R7	10.5	10.4	-0.1	0	Negligible
R8	10.1	10.1	0.0	0	Negligible
R9	9.9	10.0	0.0	0	Negligible
R10	8.8	8.8	+0.1	0	Negligible
R11	8.3	8.3	0.0	0	Negligible
R12	8.4	8.7	+0.4	+1	Negligible
R13	8.1	8.3	+0.2	+1	Negligible
R14	8.2	8.4	+0.2	+1	Negligible
R15	8.4	8.7	+0.3	+1	Negligible
R16	8.2	8.3	+0.1	0	Negligible
R17	8.4	8.5	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R18	7.9	8.0	+0.1	0	Negligible
R19	8.4	8.3	-0.1	0	Negligible
R20	8.1	7.9	-0.2	0	Negligible
R21	8.0	7.9	-0.2	0	Negligible
R22	7.9	7.8	-0.1	0	Negligible
R23	7.9	7.7	-0.1	0	Negligible
R24	8.1	7.9	-0.2	0	Negligible
R25	8.0	7.9	-0.1	0	Negligible
R26	8.0	7.9	-0.1	0	Negligible
R27	8.5	8.5	0.0	0	Negligible
R28	8.2	8.2	0.0	0	Negligible
R29	9.3	9.4	+0.1	0	Negligible
R30	9.0	9.1	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R31	9.8	9.9	+0.1	0	Negligible
R32	9.0	9.0	+0.1	0	Negligible
R33	10.4	10.4	0.0	0	Negligible
R34	10.2	10.2	0.0	0	Negligible
R35	10.1	10.2	0.0	0	Negligible
R36	13.7	13.7	0.0	0	Negligible
R37	11.9	12.0	0.0	0	Negligible
R38	12.6	12.6	0.0	0	Negligible
R39	18.0	18.0	0.0	0	Negligible
R40	19.3	19.3	0.0	0	Negligible
R41	12.5	13.4	+0.9	+2	Negligible
R42	13.0	13.1	0.0	0	Negligible
R43	9.5	9.7	+0.2	+1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R44	9.5	9.9	+0.4	+1	Negligible
R45	9.4	9.5	+0.1	0	Negligible
R46	8.6	8.7	+0.1	0	Negligible
R47	8.3	8.3	0.0	0	Negligible
R48	8.4	8.4	0.0	0	Negligible
R49	8.4	8.8	+0.4	+1	Negligible
R50	11.3	11.4	0.0	0	Negligible
R51	11.0	11.0	0.0	0	Negligible
R52	15.9	15.9	0.0	0	Negligible
STR1	*8.1*	*7.9*	*-0.2*	*0*	*Negligible*
STR2	*7.7*	*7.7*	*0.0*	*0*	*Negligible*
STR3	*10.4*	*10.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.6: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	13.3	13.3	0.0	0	Negligible
R2	12.9	12.9	0.0	0	Negligible
R3	13.9	13.9	-0.1	0	Negligible
R4	15.4	15.4	0.0	0	Negligible
R5	15.1	15.1	0.0	0	Negligible
R6	15.3	15.3	-0.1	0	Negligible
R7	15.3	15.3	-0.1	0	Negligible
R8	15.1	15.1	0.0	0	Negligible
R9	15.0	15.0	0.0	0	Negligible
R10	13.2	13.2	0.0	0	Negligible
R11	12.9	12.9	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R12	12.7	12.9	+0.2	+1	Negligible
R13	12.5	12.7	+0.1	0	Negligible
R14	12.6	12.7	+0.1	0	Negligible
R15	12.7	12.9	+0.2	0	Negligible
R16	13.1	13.1	0.0	0	Negligible
R17	13.2	13.3	0.0	0	Negligible
R18	12.8	12.9	+0.1	0	Negligible
R19	12.9	12.9	0.0	0	Negligible
R20	12.8	12.7	-0.1	0	Negligible
R21	12.8	12.7	-0.1	0	Negligible
R22	12.7	12.6	-0.1	0	Negligible
R23	12.6	12.6	-0.1	0	Negligible
R24	13.4	13.3	-0.1	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R25	13.3	13.2	-0.1	0	Negligible
R26	13.3	13.3	-0.1	0	Negligible
R27	13.8	13.8	0.0	0	Negligible
R28	14.2	14.2	+0.1	0	Negligible
R29	13.5	13.6	+0.1	0	Negligible
R30	13.3	13.4	0.0	0	Negligible
R31	14.0	14.0	+0.1	0	Negligible
R32	13.3	13.4	0.0	0	Negligible
R33	13.3	13.3	0.0	0	Negligible
R34	13.1	13.1	0.0	0	Negligible
R35	13.1	13.1	0.0	0	Negligible
R36	16.0	16.0	0.0	0	Negligible
R37	15.8	15.8	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R38	15.6	15.6	0.0	0	Negligible
R39	16.7	16.7	0.0	0	Negligible
R40	17.1	17.1	0.0	0	Negligible
R41	14.7	14.9	0.2	0	Negligible
R42	15.5	15.5	0.0	0	Negligible
R43	14.8	14.9	+0.1	0	Negligible
R44	14.8	15.0	+0.2	+1	Negligible
R45	14.8	14.8	+0.1	0	Negligible
R46	13.1	13.2	0.0	0	Negligible
R47	13.3	13.3	0.0	0	Negligible
R48	13.3	13.3	0.0	0	Negligible
R49	12.8	12.9	+0.1	0	Negligible
R50	15.0	15.0	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R51	15.4	15.4	0.0	0	Negligible
R52	16.0	16.1	0.0	0	Negligible
STR1	*12.8*	*12.7*	*-0.1*	*0*	*Negligible*
STR2	*13.0*	*13.0*	*0.0*	*0*	*Negligible*
STR3	*15.4*	*15.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.7: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R1	8.2	8.2	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R2	8.1	8.1	0.0	0	Negligible
R3	8.3	8.3	0.0	0	Negligible
R4	9.1	9.1	0.0	0	Negligible
R5	10.1	10.1	0.0	0	Negligible
R6	10.2	10.2	0.0	0	Negligible
R7	10.2	10.2	0.0	0	Negligible
R8	10.1	10.1	0.0	0	Negligible
R9	10.0	10.0	0.0	0	Negligible
R10	8.4	8.4	0.0	0	Negligible
R11	8.2	8.2	0.0	0	Negligible
R12	8.1	8.3	+0.1	+1	Negligible
R13	8.1	8.1	+0.1	0	Negligible
R14	8.1	8.2	+0.1	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R15	8.2	8.2	+0.1	0	Negligible
R16	8.2	8.2	0.0	0	Negligible
R17	8.3	8.3	0.0	0	Negligible
R18	8.1	8.1	0.0	0	Negligible
R19	8.2	8.2	0.0	0	Negligible
R20	8.0	7.9	-0.1	0	Negligible
R21	8.0	7.9	-0.1	0	Negligible
R22	7.9	7.9	0.0	0	Negligible
R23	7.9	7.9	0.0	0	Negligible
R24	8.1	8.1	0.0	0	Negligible
R25	8.1	8.1	0.0	0	Negligible
R26	8.1	8.1	0.0	0	Negligible
R27	8.4	8.4	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R28	8.5	8.5	0.0	0	Negligible
R29	8.3	8.4	0.0	0	Negligible
R30	8.2	8.2	0.0	0	Negligible
R31	8.4	8.4	0.0	0	Negligible
R32	8.2	8.2	0.0	0	Negligible
R33	8.5	8.5	0.0	0	Negligible
R34	8.4	8.4	0.0	0	Negligible
R35	8.4	8.4	0.0	0	Negligible
R36	9.8	9.9	0.0	0	Negligible
R37	9.6	9.6	0.0	0	Negligible
R38	9.6	9.6	0.0	0	Negligible
R39	10.2	10.2	0.0	0	Negligible
R40	10.5	10.5	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R41	9.1	9.2	+0.1	+1	Negligible
R42	9.6	9.6	0.0	0	Negligible
R43	8.9	8.9	+0.1	0	Negligible
R44	8.8	9.0	+0.1	+1	Negligible
R45	8.8	8.9	0.0	0	Negligible
R46	8.2	8.2	0.0	0	Negligible
R47	8.2	8.2	0.0	0	Negligible
R48	8.2	8.2	0.0	0	Negligible
R49	8.0	8.1	+0.1	0	Negligible
R50	9.3	9.3	0.0	0	Negligible
R51	9.4	9.4	0.0	0	Negligible
R52	9.8	9.8	0.0	0	Negligible
STR1	*8.0*	*7.9*	*-0.1*	*0*	*Negligible*

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR2	*8.0*	*8.0*	*0.0*	*0*	*Negligible*
STR3	*9.1*	*9.1*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

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2019 Base and Model Verification Year

Table 11.8: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations ($\mu g.m^{-3}$)		
	NO_2	PM_{10}	$PM_{2.5}$
R78	13.2	14.2	9.0
R79	18.0	16.5	9.8
R80	13.7	14.1	8.9

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R81	16.8	14.5	9.2
R82	16.0	14.3	9.1
R83	15.0	14.1	9.2
R84	14.9	14.1	9.2
R85	13.5	13.9	9.1
R86	14.3	13.9	9.1
R87	13.8	13.8	9.1
R88	13.0	14.3	9.0
R89	11.8	14.1	8.8
R90	17.0	15.1	9.5
R91	18.2	14.9	9.7
R92	20.4	15.4	9.9
R93	19.5	15.2	9.8
R94	17.0	14.6	9.5
R95	16.3	14.4	9.6

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R96	21.4	15.2	10.0
R97	19.2	15.0	10.0
R98	21.6	15.5	10.2
R99	21.0	15.3	10.2
R100	21.1	15.4	10.2
R101	23.3	15.5	10.2
R102	21.8	15.2	10.1
R103	22.0	15.2	10.1
R104	20.4	16.1	10.2
R105	19.6	14.8	9.7
R106	22.8	15.4	10.0
R107	20.5	15.1	9.8
R108	20.6	16.2	10.2
R109	22.3	16.6	10.4

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R110	17.0	15.3	9.6
R111	18.3	15.3	9.6
R112	19.5	15.1	9.8
R113	18.7	14.6	9.7
R114	23.3	15.5	10.2
R115	17.3	14.3	9.5
R116	17.6	14.7	9.8
R117	18.2	14.8	9.9
R118	20.2	14.9	10.0
R119	27.3	16.4	10.8
R120	22.2	15.4	10.2
R121	21.2	15.2	10.1
R122	22.3	15.4	10.2
R123	21.5	15.2	10.1
R124	18.7	14.6	9.6

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R125	20.0	14.8	9.7
R126	17.5	14.3	9.4
R127	17.8	14.4	9.4
R128	18.6	14.5	9.5
R129	21.5	15.1	9.8
R130	20.8	14.9	9.8
R131	18.9	14.6	9.5
R132	19.4	14.6	9.6
R133	19.6	14.7	9.6
R134	28.5	16.8	10.5
R135	28.2	17.0	10.6
R136	27.0	16.6	10.5
R137	20.4	16.0	10.1
R138	20.5	16.0	10.1

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R139	20.9	16.2	10.2
R140	20.4	16.1	10.2
R141	22.0	16.4	10.4
R142	21.2	14.9	9.9
R143	21.3	15.0	9.9
R144	20.5	14.8	9.9
R145	17.7	14.4	9.7
R146	18.5	14.6	9.8
R147	16.9	14.3	9.6
R148	17.7	14.7	9.7
R149	15.6	14.3	9.5
R150	15.9	14.3	9.6
R151	15.5	14.2	9.5
R152	15.7	14.3	9.5
R153	17.3	14.6	9.7

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R154	19.8	15.9	10.1
R155	23.8	16.5	10.4
R156	23.8	16.6	10.5
R157	20.2	15.9	10.0
R158	29.5	18.0	11.2
R159	17.9	15.7	9.8
R160	23.4	17.0	10.5
R161	16.8	15.6	9.6
R162	17.9	15.8	9.7
R163	18.7	15.3	9.7
R164	15.6	14.7	9.3
R165	10.9	13.9	8.6
R166	10.7	13.9	8.6
R167	12.7	14.1	8.8

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R168	12.8	14.2	8.7
R169	13.6	14.3	8.8
R170	17.7	14.8	9.5
R171	14.8	15.0	9.3
R172	18.1	16.2	9.9
R173	13.8	13.9	9.1
R174	17.8	14.4	9.6
R175	15.4	14.0	9.4
R176	15.4	14.0	9.4
R177	14.7	13.7	9.1
R178	14.8	14.3	9.1
R179	18.6	14.7	9.6
R180	26.9	17.4	10.6
R181	28.2	18.8	11.5
R219	15.1	14.6	9.2

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
STR7	*22.8*	*15.7*	*10.4*
STR8	*22.2*	*16.2*	*10.3*

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.9: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration (µg.m^{-3})				
	Scenario 4: 2026 Without HNRFI (µg.m^{-3})	Scenario 5: 2026 With HNRFI (µg.m^{-3})	Concentration Change* (µg.m^{-3})	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	9.8	9.9	0.0	0	Negligible
R79	11.4	11.7	+0.3	+1	Negligible
R80	9.3	9.5	+0.2	+1	Negligible
R81	10.7	11.1	+0.4	+1	Negligible
R82	10.3	10.7	+0.3	+1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R83	10.6	10.9	+0.4	+1	Negligible
R84	10.3	10.9	+0.5	+1	Negligible
R85	9.8	10.1	+0.3	+1	Negligible
R86	10.3	10.8	+0.4	+1	Negligible
R87	10.1	10.4	+0.3	+1	Negligible
R88	9.5	9.6	+0.1	0	Negligible
R89	8.6	8.6	+0.1	0	Negligible
R90	10.2	10.3	+0.1	0	Negligible
R91	13.0	13.1	+0.1	0	Negligible
R92	12.4	12.6	+0.3	+1	Negligible
R93	12.0	12.1	+0.2	0	Negligible
R94	11.6	11.7	+0.1	0	Negligible
R95	12.2	12.2	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R96	14.3	14.2	-0.1	0	Negligible
R97	13.6	13.5	-0.1	0	Negligible
R98	14.9	14.7	-0.2	0	Negligible
R99	14.6	14.5	-0.1	0	Negligible
R100	14.7	14.5	-0.1	0	Negligible
R101	17.2	17.0	-0.2	0	Negligible
R102	16.5	16.3	-0.2	0	Negligible
R103	16.5	16.3	-0.2	0	Negligible
R104	13.8	13.8	-0.1	0	Negligible
R105	14.4	14.2	-0.2	0	Negligible
R106	15.5	15.2	-0.3	-1	Negligible
R107	13.3	13.4	+0.1	0	Negligible
R108	13.9	14.0	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R109	14.8	15.0	+0.1	0	Negligible
R110	9.7	12.0	+2.4	+6	Slight adverse
R111	12.5	11.8	-0.7	-2	Negligible
R112	13.5	12.8	-0.7	-2	Negligible
R113	13.1	12.5	-0.7	-2	Negligible
R114	15.4	14.2	-1.1	-3	Negligible
R115	12.4	12.0	-0.4	-1	Negligible
R116	13.1	12.9	-0.2	0	Negligible
R117	13.3	13.1	-0.1	0	Negligible
R118	13.9	13.4	-0.5	-1	Negligible
R119	17.4	16.3	-1.1	-3	Negligible
R120	14.8	14.3	-0.6	-1	Negligible
R121	14.4	14.0	-0.4	-1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R122	15.0	14.4	-0.6	-1	Negligible
R123	14.6	14.2	-0.5	-1	Negligible
R124	13.0	12.5	-0.5	-1	Negligible
R125	13.2	12.5	-0.7	-2	Negligible
R126	12.0	11.6	-0.4	-1	Negligible
R127	12.3	11.8	-0.4	-1	Negligible
R128	12.6	12.2	-0.5	-1	Negligible
R129	14.1	13.2	-0.8	-2	Negligible
R130	13.8	13.4	-0.4	-1	Negligible
R131	12.7	12.5	-0.2	-1	Negligible
R132	12.9	12.7	-0.3	-1	Negligible
R133	12.9	12.8	-0.2	0	Negligible
R134	14.9	16.8	+1.9	+5	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R135	15.4	16.1	+0.7	+2	Negligible
R136	14.9	15.6	+0.7	+2	Negligible
R137	14.1	13.6	-0.5	-1	Negligible
R138	14.2	13.6	-0.6	-1	Negligible
R139	14.2	14.1	-0.1	0	Negligible
R140	13.9	13.8	0.0	0	Negligible
R141	14.9	14.6	-0.3	-1	Negligible
R142	14.8	14.8	-0.1	0	Negligible
R143	15.0	14.9	-0.1	0	Negligible
R144	14.8	14.7	0.0	0	Negligible
R145	11.9	11.8	-0.1	0	Negligible
R146	12.8	12.4	-0.4	-1	Negligible
R147	11.8	11.7	-0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R148	12.9	12.5	-0.4	-1	Negligible
R149	11.5	11.4	-0.1	0	Negligible
R150	11.8	11.6	-0.2	0	Negligible
R151	11.5	11.4	-0.1	0	Negligible
R152	11.6	11.4	-0.2	0	Negligible
R153	12.8	12.2	-0.5	-1	Negligible
R154	13.7	13.3	-0.5	-1	Negligible
R155	14.6	14.9	+0.3	+1	Negligible
R156	15.0	15.2	+0.2	0	Negligible
R157	13.4	13.6	+0.2	+1	Negligible
R158	18.0	18.0	0.0	0	Negligible
R159	12.8	12.8	0.0	0	Negligible
R160	15.3	15.2	-0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R161	11.7	11.6	-0.1	0	Negligible
R162	12.3	12.2	-0.1	0	Negligible
R163	12.6	12.5	-0.1	0	Negligible
R164	11.1	11.0	0.0	0	Negligible
R165	8.8	8.9	+0.1	0	Negligible
R166	8.6	8.7	+0.1	0	Negligible
R167	9.3	9.2	-0.1	0	Negligible
R168	9.5	9.4	-0.1	0	Negligible
R169	10.0	9.8	-0.1	0	Negligible
R170	10.7	10.8	+0.2	0	Negligible
R171	9.9	10.0	+0.1	0	Negligible
R172	12.0	11.9	-0.2	0	Negligible
R173	10.3	10.3	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R174	13.9	13.9	0.0	0	Negligible
R175	11.6	11.6	0.0	0	Negligible
R176	11.6	11.6	0.0	0	Negligible
R177	10.5	10.6	+0.1	0	Negligible
R178	9.8	9.9	+0.1	0	Negligible
R179	12.4	13.1	+0.7	+2	Negligible
R180	14.3	16.4	+2.1	+5	Negligible
R181	18.1	20.2	+2.2	+5	Negligible
R219	9.2	11.0	+1.8	+4	Negligible
STR7	*15.6*	*15.4*	*-0.2*	*0*	*Negligible*
STR8	*15.7*	*15.7*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.10: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	13.2	13.2	0.0	0	Negligible
R79	15.4	15.6	+0.2	0	Negligible
R80	13.0	13.1	+0.1	0	Negligible
R81	13.3	13.5	+0.2	0	Negligible
R82	13.2	13.3	+0.2	0	Negligible
R83	13.0	13.1	+0.1	0	Negligible
R84	13.0	13.2	+0.2	0	Negligible
R85	12.8	12.9	+0.1	0	Negligible
R86	12.9	13.0	+0.1	0	Negligible
R87	12.8	12.9	+0.1	0	Negligible
R88	13.2	13.3	0.0	0	Negligible
R89	13.1	13.1	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R90	13.6	13.6	0.0	0	Negligible
R91	14.1	14.2	+0.1	0	Negligible
R92	13.8	14.0	+0.1	0	Negligible
R93	13.6	13.7	+0.1	0	Negligible
R94	13.5	13.5	+0.1	0	Negligible
R95	13.4	13.3	0.0	0	Negligible
R96	14.0	14.0	-0.1	0	Negligible
R97	13.9	13.8	0.0	0	Negligible
R98	14.3	14.3	-0.1	0	Negligible
R99	14.2	14.2	-0.1	0	Negligible
R100	14.2	14.2	0.0	0	Negligible
R101	14.6	14.5	-0.1	0	Negligible
R102	14.3	14.2	-0.1	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R103	14.3	14.2	-0.1	0	Negligible
R104	15.1	15.1	0.0	0	Negligible
R105	14.0	14.0	-0.1	0	Negligible
R106	14.4	14.3	-0.1	0	Negligible
R107	13.7	13.7	0.0	0	Negligible
R108	15.2	15.2	0.0	0	Negligible
R109	15.6	15.6	0.0	0	Negligible
R110	13.5	14.4	+0.9	+2	Negligible
R111	14.3	14.0	-0.3	-1	Negligible
R112	14.2	13.9	-0.3	-1	Negligible
R113	13.5	13.3	-0.3	-1	Negligible
R114	14.3	13.9	-0.4	-1	Negligible
R115	13.2	13.1	-0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R116	13.7	13.6	-0.1	0	Negligible
R117	13.8	13.7	-0.1	0	Negligible
R118	13.8	13.6	-0.2	0	Negligible
R119	15.1	14.7	-0.4	-1	Negligible
R120	14.2	13.9	-0.2	-1	Negligible
R121	14.0	13.8	-0.2	0	Negligible
R122	14.2	14.0	-0.2	-1	Negligible
R123	14.1	13.9	-0.2	0	Negligible
R124	13.7	13.5	-0.2	0	Negligible
R125	13.8	13.5	-0.3	-1	Negligible
R126	13.3	13.1	-0.2	0	Negligible
R127	13.4	13.2	-0.2	0	Negligible
R128	13.5	13.3	-0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R129	14.0	13.7	-0.3	-1	Negligible
R130	13.9	13.7	-0.2	0	Negligible
R131	13.5	13.4	-0.1	0	Negligible
R132	13.6	13.4	-0.1	0	Negligible
R133	13.6	13.5	-0.1	0	Negligible
R134	15.3	15.9	+0.6	+2	Negligible
R135	15.6	16.0	+0.4	+1	Negligible
R136	15.3	15.7	+0.4	+1	Negligible
R137	15.2	15.0	-0.2	-1	Negligible
R138	15.2	14.9	-0.2	-1	Negligible
R139	15.3	15.2	-0.1	0	Negligible
R140	15.2	15.1	0.0	0	Negligible
R141	15.6	15.4	-0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R142	13.6	13.6	0.0	0	Negligible
R143	13.6	13.6	0.0	0	Negligible
R144	13.6	13.5	0.0	0	Negligible
R145	13.1	13.0	0.0	0	Negligible
R146	13.4	13.2	-0.1	0	Negligible
R147	13.0	13.0	0.0	0	Negligible
R148	13.8	13.6	-0.1	0	Negligible
R149	13.3	13.2	0.0	0	Negligible
R150	13.3	13.3	-0.1	0	Negligible
R151	13.2	13.2	-0.1	0	Negligible
R152	13.3	13.2	-0.1	0	Negligible
R153	13.7	13.5	-0.2	0	Negligible
R154	15.0	14.8	-0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R155	15.2	15.3	+0.1	0	Negligible
R156	15.6	15.7	+0.1	0	Negligible
R157	14.8	14.9	+0.1	0	Negligible
R158	17.0	17.0	0.0	0	Negligible
R159	14.7	14.7	0.0	0	Negligible
R160	15.9	15.9	0.0	0	Negligible
R161	14.6	14.6	0.0	0	Negligible
R162	14.8	14.8	0.0	0	Negligible
R163	14.3	14.3	0.0	0	Negligible
R164	13.7	13.7	0.0	0	Negligible
R165	13.2	13.3	0.0	0	Negligible
R166	13.1	13.2	0.0	0	Negligible
R167	13.3	13.2	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R168	13.3	13.3	0.0	0	Negligible
R169	13.4	13.4	0.0	0	Negligible
R170	13.3	13.4	+0.1	0	Negligible
R171	13.8	13.8	0.0	0	Negligible
R172	15.3	15.3	0.0	0	Negligible
R173	12.9	12.9	0.0	0	Negligible
R174	13.3	13.3	0.0	0	Negligible
R175	13.0	12.9	0.0	0	Negligible
R176	13.0	12.9	0.0	0	Negligible
R177	12.7	12.7	0.0	0	Negligible
R178	13.2	13.3	+0.1	0	Negligible
R179	13.5	13.8	+0.2	+1	Negligible
R180	16.0	16.3	+0.3	+1	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R181	16.9	17.6	+0.6	+2	Negligible
R219	13.0	13.6	+0.7	+2	Negligible
STR7	*14.6*	*14.5*	*-0.1*	*0*	*Negligible*
STR8	*15.2*	*15.2*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.11: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R78	8.2	8.2	0.0	0	Negligible
R79	8.9	9.0	+0.1	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R80	8.1	8.1	+0.1	0	Negligible
R81	8.3	8.4	+0.1	0	Negligible
R82	8.2	8.3	+0.1	0	Negligible
R83	8.3	8.4	+0.1	0	Negligible
R84	8.3	8.4	+0.1	+1	Negligible
R85	8.2	8.3	+0.1	0	Negligible
R86	8.3	8.3	+0.1	0	Negligible
R87	8.2	8.3	+0.1	0	Negligible
R88	8.2	8.2	0.0	0	Negligible
R89	8.0	8.0	0.0	0	Negligible
R90	8.4	8.4	0.0	0	Negligible
R91	9.0	9.0	0.0	0	Negligible
R92	8.8	8.9	+0.1	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R93	8.7	8.7	0.0	0	Negligible
R94	8.6	8.6	0.0	0	Negligible
R95	8.8	8.8	0.0	0	Negligible
R96	9.1	9.1	0.0	0	Negligible
R97	9.1	9.1	0.0	0	Negligible
R98	9.3	9.3	0.0	0	Negligible
R99	9.3	9.3	0.0	0	Negligible
R100	9.3	9.3	0.0	0	Negligible
R101	9.4	9.4	0.0	0	Negligible
R102	9.3	9.2	0.0	0	Negligible
R103	9.3	9.2	0.0	0	Negligible
R104	9.4	9.3	0.0	0	Negligible
R105	8.9	8.9	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R106	9.2	9.1	-0.1	0	Negligible
R107	8.7	8.8	0.0	0	Negligible
R108	9.4	9.4	0.0	0	Negligible
R109	9.6	9.6	0.0	0	Negligible
R110	8.3	8.8	+0.5	+2	Negligible
R111	8.8	8.6	-0.2	-1	Negligible
R112	9.0	8.8	-0.2	-1	Negligible
R113	8.8	8.7	-0.1	-1	Negligible
R114	9.3	9.0	-0.2	-1	Negligible
R115	8.7	8.6	-0.1	0	Negligible
R116	9.0	8.9	0.0	0	Negligible
R117	9.0	9.0	0.0	0	Negligible
R118	9.1	9.0	-0.1	-1	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R119	9.8	9.5	-0.2	-1	Negligible
R120	9.3	9.1	-0.1	-1	Negligible
R121	9.2	9.1	-0.1	0	Negligible
R122	9.3	9.2	-0.1	-1	Negligible
R123	9.2	9.1	-0.1	0	Negligible
R124	8.8	8.7	-0.1	-1	Negligible
R125	8.8	8.7	-0.2	-1	Negligible
R126	8.6	8.5	-0.1	0	Negligible
R127	8.6	8.5	-0.1	0	Negligible
R128	8.7	8.6	-0.1	0	Negligible
R129	9.0	8.8	-0.2	-1	Negligible
R130	8.9	8.8	-0.1	0	Negligible
R131	8.7	8.6	-0.1	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R132	8.7	8.7	-0.1	0	Negligible
R133	8.7	8.7	-0.1	0	Negligible
R134	9.4	9.8	+0.4	+2	Negligible
R135	9.5	9.8	+0.2	+1	Negligible
R136	9.3	9.6	+0.3	+1	Negligible
R137	9.4	9.3	-0.1	-1	Negligible
R138	9.4	9.3	-0.1	-1	Negligible
R139	9.4	9.4	0.0	0	Negligible
R140	9.4	9.4	0.0	0	Negligible
R141	9.6	9.5	-0.1	0	Negligible
R142	8.9	8.9	0.0	0	Negligible
R143	8.9	8.9	0.0	0	Negligible
R144	8.9	8.9	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R145	8.7	8.6	0.0	0	Negligible
R146	8.8	8.7	-0.1	0	Negligible
R147	8.6	8.6	0.0	0	Negligible
R148	9.0	8.9	-0.1	0	Negligible
R149	8.7	8.7	0.0	0	Negligible
R150	8.8	8.7	0.0	0	Negligible
R151	8.7	8.7	0.0	0	Negligible
R152	8.7	8.7	0.0	0	Negligible
R153	8.9	8.8	-0.1	-1	Negligible
R154	9.3	9.2	-0.1	-1	Negligible
R155	9.4	9.5	+0.1	0	Negligible
R156	9.6	9.6	0.0	0	Negligible
R157	9.2	9.2	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R158	10.3	10.3	0.0	0	Negligible
R159	9.0	9.0	0.0	0	Negligible
R160	9.7	9.7	0.0	0	Negligible
R161	8.8	8.8	0.0	0	Negligible
R162	8.9	8.9	0.0	0	Negligible
R163	8.8	8.8	0.0	0	Negligible
R164	8.5	8.5	0.0	0	Negligible
R165	8.0	8.0	0.0	0	Negligible
R166	7.9	7.9	0.0	0	Negligible
R167	8.0	8.0	0.0	0	Negligible
R168	7.9	7.9	0.0	0	Negligible
R169	8.0	8.0	0.0	0	Negligible
R170	8.4	8.4	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R171	8.4	8.4	0.0	0	Negligible
R172	9.1	9.1	0.0	0	Negligible
R173	8.3	8.3	0.0	0	Negligible
R174	8.7	8.7	0.0	0	Negligible
R175	8.6	8.6	0.0	0	Negligible
R176	8.6	8.6	0.0	0	Negligible
R177	8.3	8.3	0.0	0	Negligible
R178	8.2	8.3	0.0	0	Negligible
R179	8.6	8.8	+0.1	+1	Negligible
R180	9.4	9.6	+0.2	+1	Negligible
R181	10.0	10.4	+0.4	+2	Negligible
R219	8.1	8.4	+0.4	+2	Negligible
STR7	*9.5*	*9.4*	*0.0*	*0*	*Negligible*

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR8	*9.4*	*9.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036 Opening Year

Table 11.12: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	8.9	8.9	0.0	0	Negligible
R79	9.9	10.1	+0.2	0	Negligible
R80	8.3	8.4	+0.2	0	Negligible
R81	9.4	9.7	+0.3	+1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R82	9.1	9.4	+0.3	+1	Negligible
R83	9.7	9.9	+0.2	+1	Negligible
R84	9.6	9.9	+0.4	+1	Negligible
R85	9.0	9.2	+0.2	+1	Negligible
R86	9.4	9.7	+0.3	+1	Negligible
R87	9.3	9.5	+0.2	+1	Negligible
R88	8.6	8.7	+0.1	0	Negligible
R89	7.8	7.9	0.0	0	Negligible
R90	9.1	9.1	0.0	0	Negligible
R91	11.1	11.2	+0.1	0	Negligible
R92	10.7	10.9	+0.2	0	Negligible
R93	10.4	10.5	+0.1	0	Negligible
R94	10.2	10.2	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R95	11.1	11.1	0.0	0	Negligible
R96	12.5	12.4	-0.2	0	Negligible
R97	12.1	12.0	-0.1	0	Negligible
R98	13.0	12.8	-0.2	0	Negligible
R99	12.7	12.6	-0.1	0	Negligible
R100	12.7	12.6	-0.1	0	Negligible
R101	15.1	15.0	-0.1	0	Negligible
R102	14.7	14.6	-0.1	0	Negligible
R103	14.7	14.5	-0.1	0	Negligible
R104	11.6	11.6	0.0	0	Negligible
R105	12.5	12.3	-0.2	0	Negligible
R106	13.2	13.0	-0.3	-1	Negligible
R107	11.7	11.8	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R108	11.7	11.8	+0.1	0	Negligible
R109	12.3	12.5	+0.2	0	Negligible
R110	8.7	10.2	+1.6	+4	Negligible
R111	10.8	10.2	-0.6	-1	Negligible
R112	11.7	11.1	-0.6	-2	Negligible
R113	11.5	11.1	-0.4	-1	Negligible
R114	13.1	12.5	-0.6	-2	Negligible
R115	11.0	10.7	-0.3	-1	Negligible
R116	11.6	11.5	-0.1	0	Negligible
R117	11.8	11.7	-0.1	0	Negligible
R118	12.2	11.9	-0.3	-1	Negligible
R119	14.7	14.0	-0.7	-2	Negligible
R120	12.8	12.4	-0.3	-1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R121	12.5	12.2	-0.3	-1	Negligible
R122	12.9	12.6	-0.3	-1	Negligible
R123	12.7	12.4	-0.3	-1	Negligible
R124	11.1	10.8	-0.3	-1	Negligible
R125	11.4	10.9	-0.6	-1	Negligible
R126	10.5	10.2	-0.3	-1	Negligible
R127	10.6	10.3	-0.3	-1	Negligible
R128	10.9	10.6	-0.3	-1	Negligible
R129	12.0	11.4	-0.6	-2	Negligible
R130	11.9	11.6	-0.4	-1	Negligible
R131	11.1	10.8	-0.2	-1	Negligible
R132	11.5	11.1	-0.4	-1	Negligible
R133	11.6	11.2	-0.4	-1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R134	12.4	14.0	+1.6	+4	Negligible
R135	13.1	14.3	+1.2	+3	Negligible
R136	12.4	13.8	+1.3	+3	Negligible
R137	11.9	11.5	-0.4	-1	Negligible
R138	12.0	11.6	-0.4	-1	Negligible
R139	11.9	11.8	0.0	0	Negligible
R140	11.7	11.7	0.0	0	Negligible
R141	12.4	12.2	-0.2	0	Negligible
R142	13.5	13.5	-0.1	0	Negligible
R143	13.7	13.6	-0.1	0	Negligible
R144	13.5	13.5	0.0	0	Negligible
R145	10.8	10.7	-0.1	0	Negligible
R146	11.4	11.1	-0.3	-1	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R147	10.7	10.7	-0.1	0	Negligible
R148	11.2	11.0	-0.3	-1	Negligible
R149	10.3	10.2	-0.1	0	Negligible
R150	10.4	10.3	-0.1	0	Negligible
R151	10.3	10.2	-0.1	0	Negligible
R152	10.3	10.2	-0.1	0	Negligible
R153	11.1	10.8	-0.4	-1	Negligible
R154	11.6	11.3	-0.3	-1	Negligible
R155	12.2	12.5	0.3	1	Negligible
R156	12.5	12.7	0.2	0	Negligible
R157	11.4	11.5	0.2	0	Negligible
R158	14.9	14.9	0.0	0	Negligible
R159	11.4	11.4	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R160	13.1	13.1	0.0	0	Negligible
R161	10.3	10.2	-0.1	0	Negligible
R162	10.8	10.7	-0.1	0	Negligible
R163	10.9	10.8	-0.1	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
R167	8.3	8.2	0.0	0	Negligible
R168	8.5	8.5	0.0	0	Negligible
R169	8.9	8.9	-0.1	0	Negligible
R170	9.4	9.5	+0.1	0	Negligible
R171	8.7	8.8	+0.1	0	Negligible
R172	10.2	10.1	-0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	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	12.9	0.0	0	Negligible
R175	10.6	10.6	0.0	0	Negligible
R176	10.6	10.6	0.0	0	Negligible
R177	9.4	9.4	0.0	0	Negligible
R178	8.7	8.8	+0.1	0	Negligible
R179	11.5	11.8	+0.3	+1	Negligible
R180	11.8	13.3	+1.4	+4	Negligible
R181	14.4	15.9	+1.5	+4	Negligible
R219	8.4	9.6	+1.2	+3	Negligible
STR7	*13.3*	*13.2*	*-0.1*	*0*	*Negligible*
STR8	*13.6*	*13.6*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.13: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	13.1	13.1	0.0	0	Negligible
R79	15.6	15.8	+0.2	0	Negligible
R80	13.0	13.1	+0.1	0	Negligible
R81	13.4	13.6	+0.2	0	Negligible
R82	13.3	13.4	+0.2	0	Negligible
R83	13.1	13.2	+0.1	0	Negligible
R84	13.2	13.4	+0.2	0	Negligible
R85	12.9	13.0	+0.1	0	Negligible
R86	12.9	13.1	+0.1	0	Negligible
R87	12.8	12.9	+0.1	0	Negligible
R88	13.2	13.3	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R89	13.0	13.1	0.0	0	Negligible
R90	13.5	13.5	0.0	0	Negligible
R91	14.1	14.2	+0.1	0	Negligible
R92	13.8	14.0	+0.1	0	Negligible
R93	13.6	13.7	+0.1	0	Negligible
R94	13.4	13.5	+0.1	0	Negligible
R95	13.3	13.3	0.0	0	Negligible
R96	14.2	14.1	-0.1	0	Negligible
R97	13.9	13.8	-0.1	0	Negligible
R98	14.4	14.3	-0.1	0	Negligible
R99	14.2	14.2	-0.1	0	Negligible
R100	14.2	14.1	-0.1	0	Negligible
R101	14.6	14.5	-0.1	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R102	14.3	14.2	-0.1	0	Negligible
R103	14.3	14.2	-0.1	0	Negligible
R104	15.1	15.1	0.0	0	Negligible
R105	14.1	14.0	-0.1	0	Negligible
R106	14.5	14.3	-0.1	0	Negligible
R107	13.7	13.7	0.0	0	Negligible
R108	15.2	15.3	+0.1	0	Negligible
R109	15.6	15.7	+0.1	0	Negligible
R110	13.4	14.3	+0.9	+2	Negligible
R111	14.4	14.0	-0.4	-1	Negligible
R112	14.3	13.9	-0.4	-1	Negligible
R113	13.6	13.3	-0.2	-1	Negligible
R114	14.4	14.1	-0.4	-1	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R115	13.2	13.1	-0.2	0	Negligible
R116	13.7	13.6	-0.1	0	Negligible
R117	13.7	13.7	-0.1	0	Negligible
R118	13.8	13.7	-0.2	0	Negligible
R119	15.2	14.8	-0.4	-1	Negligible
R120	14.2	14.0	-0.2	-1	Negligible
R121	14.0	13.9	-0.2	0	Negligible
R122	14.2	14.0	-0.2	0	Negligible
R123	14.1	14.0	-0.2	0	Negligible
R124	13.7	13.6	-0.2	0	Negligible
R125	13.9	13.5	-0.3	-1	Negligible
R126	13.3	13.2	-0.2	0	Negligible
R127	13.4	13.2	-0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R128	13.5	13.3	-0.2	0	Negligible
R129	14.2	13.8	-0.3	-1	Negligible
R130	14.1	13.9	-0.2	-1	Negligible
R131	13.6	13.5	-0.1	0	Negligible
R132	13.8	13.6	-0.2	-1	Negligible
R133	13.9	13.6	-0.3	-1	Negligible
R134	15.5	16.0	+0.5	+1	Negligible
R135	16.1	16.5	+0.4	+1	Negligible
R136	15.4	15.8	+0.4	+1	Negligible
R137	15.2	15.0	-0.2	-1	Negligible
R138	15.2	15.0	-0.2	-1	Negligible
R139	15.3	15.2	0.0	0	Negligible
R140	15.2	15.1	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R141	15.6	15.4	-0.1	0	Negligible
R142	13.6	13.5	0.0	0	Negligible
R143	13.6	13.6	-0.1	0	Negligible
R144	13.5	13.5	0.0	0	Negligible
R145	13.1	13.0	-0.1	0	Negligible
R146	13.4	13.2	-0.2	0	Negligible
R147	13.0	13.0	0.0	0	Negligible
R148	13.7	13.6	-0.2	0	Negligible
R149	13.2	13.2	0.0	0	Negligible
R150	13.3	13.2	-0.1	0	Negligible
R151	13.2	13.2	-0.1	0	Negligible
R152	13.3	13.2	-0.1	0	Negligible
R153	13.7	13.5	-0.2	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R154	15.0	14.8	-0.2	0	Negligible
R155	15.3	15.4	0.1	0	Negligible
R156	15.7	15.7	+0.1	0	Negligible
R157	14.8	14.9	+0.1	0	Negligible
R158	17.1	17.2	0.0	0	Negligible
R159	14.7	14.7	0.0	0	Negligible
R160	16.0	16.0	0.0	0	Negligible
R161	14.6	14.6	0.0	0	Negligible
R162	14.9	14.8	0.0	0	Negligible
R163	14.4	14.4	0.0	0	Negligible
R164	13.7	13.7	0.0	0	Negligible
R165	13.3	13.3	0.0	0	Negligible
R166	13.2	13.2	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R167	13.3	13.3	0.0	0	Negligible
R168	13.3	13.3	0.0	0	Negligible
R169	13.5	13.5	0.0	0	Negligible
R170	13.3	13.4	0.0	0	Negligible
R171	13.8	13.8	0.0	0	Negligible
R172	15.4	15.4	0.0	0	Negligible
R173	12.9	12.9	0.0	0	Negligible
R174	13.3	13.3	0.0	0	Negligible
R175	12.9	12.9	0.0	0	Negligible
R176	12.9	12.9	0.0	0	Negligible
R177	12.7	12.7	0.0	0	Negligible
R178	13.2	13.3	+0.1	0	Negligible
R179	14.0	14.1	+0.1	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R180	15.9	16.8	+0.8	+2	Negligible
R181	16.9	17.7	+0.8	+2	Negligible
R219	13.0	13.6	+0.7	+2	Negligible
STR7	*14.6*	*14.5*	*-0.1*	*0*	*Negligible*
STR8	*15.1*	*15.1*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.14: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R78	8.2	8.2	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R79	9.0	9.1	+0.1	0	Negligible
R80	8.1	8.1	+0.1	0	Negligible
R81	8.3	8.4	+0.1	+1	Negligible
R82	8.3	8.3	+0.1	0	Negligible
R83	8.4	8.4	+0.1	0	Negligible
R84	8.4	8.5	+0.1	+1	Negligible
R85	8.3	8.3	+0.1	0	Negligible
R86	8.3	8.4	+0.1	0	Negligible
R87	8.2	8.3	+0.1	0	Negligible
R88	8.2	8.2	0.0	0	Negligible
R89	8.0	8.0	0.0	0	Negligible
R90	8.3	8.4	0.0	0	Negligible
R91	8.9	9.0	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R92	8.8	8.9	+0.1	0	Negligible
R93	8.7	8.7	0.0	0	Negligible
R94	8.6	8.6	0.0	0	Negligible
R95	8.8	8.8	0.0	0	Negligible
R96	9.2	9.1	-0.1	0	Negligible
R97	9.1	9.0	0.0	0	Negligible
R98	9.4	9.3	-0.1	0	Negligible
R99	9.3	9.2	0.0	0	Negligible
R100	9.3	9.2	0.0	0	Negligible
R101	9.4	9.4	0.0	0	Negligible
R102	9.3	9.2	0.0	0	Negligible
R103	9.3	9.2	0.0	0	Negligible
R104	9.3	9.3	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R105	8.9	8.9	-0.1	0	Negligible
R106	9.2	9.1	-0.1	0	Negligible
R107	8.7	8.7	0.0	0	Negligible
R108	9.4	9.4	0.0	0	Negligible
R109	9.6	9.6	0.0	0	Negligible
R110	8.3	8.8	+0.5	+2	Negligible
R111	8.8	8.6	-0.2	-1	Negligible
R112	9.1	8.8	-0.2	-1	Negligible
R113	8.8	8.7	-0.1	-1	Negligible
R114	9.3	9.1	-0.2	-1	Negligible
R115	8.7	8.6	-0.1	0	Negligible
R116	9.0	8.9	0.0	0	Negligible
R117	9.0	9.0	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R118	9.1	9.0	-0.1	0	Negligible
R119	9.8	9.6	-0.2	-1	Negligible
R120	9.2	9.1	-0.1	-1	Negligible
R121	9.2	9.1	-0.1	0	Negligible
R122	9.3	9.2	-0.1	-1	Negligible
R123	9.2	9.1	-0.1	0	Negligible
R124	8.8	8.7	-0.1	0	Negligible
R125	8.8	8.7	-0.2	-1	Negligible
R126	8.6	8.5	-0.1	0	Negligible
R127	8.6	8.5	-0.1	-1	Negligible
R128	8.7	8.6	-0.1	-1	Negligible
R129	9.0	8.8	-0.2	-1	Negligible
R130	9.0	8.9	-0.1	-1	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R131	8.7	8.7	-0.1	0	Negligible
R132	8.9	8.7	-0.1	-1	Negligible
R133	8.9	8.8	-0.1	-1	Negligible
R134	9.5	9.6	+0.2	+1	Negligible
R135	9.7	10.0	+0.2	+1	Negligible
R136	9.4	9.6	+0.2	+1	Negligible
R137	9.4	9.3	-0.1	-1	Negligible
R138	9.4	9.3	-0.1	-1	Negligible
R139	9.4	9.4	0.0	0	Negligible
R140	9.4	9.3	0.0	0	Negligible
R141	9.6	9.5	-0.1	0	Negligible
R142	8.9	8.8	0.0	0	Negligible
R143	8.9	8.9	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R144	8.8	8.8	0.0	0	Negligible
R145	8.6	8.6	0.0	0	Negligible
R146	8.8	8.7	-0.1	0	Negligible
R147	8.6	8.6	0.0	0	Negligible
R148	9.0	8.9	-0.1	0	Negligible
R149	8.7	8.7	0.0	0	Negligible
R150	8.7	8.7	0.0	0	Negligible
R151	8.7	8.7	0.0	0	Negligible
R152	8.7	8.7	0.0	0	Negligible
R153	8.9	8.8	-0.1	-1	Negligible
R154	9.3	9.2	-0.1	-1	Negligible
R155	9.4	9.5	+0.1	0	Negligible
R156	9.6	9.7	+0.1	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R157	9.2	9.2	0.0	0	Negligible
R158	10.4	10.4	0.0	0	Negligible
R159	9.0	9.0	0.0	0	Negligible
R160	9.7	9.7	0.0	0	Negligible
R161	8.8	8.8	0.0	0	Negligible
R162	8.9	8.9	0.0	0	Negligible
R163	8.9	8.9	0.0	0	Negligible
R164	8.5	8.5	0.0	0	Negligible
R165	8.0	8.0	0.0	0	Negligible
R166	7.9	7.9	0.0	0	Negligible
R167	8.0	8.0	0.0	0	Negligible
R168	7.9	7.9	0.0	0	Negligible
R169	8.0	8.0	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R170	8.4	8.4	0.0	0	Negligible
R171	8.4	8.4	0.0	0	Negligible
R172	9.1	9.2	0.0	0	Negligible
R173	8.2	8.2	0.0	0	Negligible
R174	8.7	8.7	0.0	0	Negligible
R175	8.6	8.6	0.0	0	Negligible
R176	8.6	8.5	0.0	0	Negligible
R177	8.2	8.2	0.0	0	Negligible
R178	8.2	8.3	+0.1	0	Negligible
R179	8.9	8.9	+0.1	0	Negligible
R180	9.4	9.7	+0.3	+1	Negligible
R181	10.0	10.4	+0.4	+2	Negligible
R219	8.0	8.3	+0.3	+1	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR7	*9.5*	*9.4*	*0.0*	*0*	*Negligible*
STR8	*9.4*	*9.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Charnwood Borough Council

2019 Base and Model Verification Year

Table 11.15: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations ($\mu g.m^{-3}$)		
	NO_2	PM_{10}	$PM_{2.5}$
R54	29.8	18.2	10.9
R55	20.1	16.8	10.4
R188	24.2	17.7	10.5

2026 Opening Year

Table 11.16: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R54	18.2	18.5	+0.3	+1	Negligible
R55	13.6	13.8	+0.3	+1	Negligible
R188	14.6	15.6	+1.0	+3	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.17: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R54	17.1	17.2	+0.1	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R55	15.7	15.8	+0.1	0	Negligible
R188	16.6	16.8	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.18: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R54	10.0	10.0	0.0	0	Negligible
R55	9.5	9.6	0.0	0	Negligible
R188	9.6	9.7	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 11.19: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R54	14.6	14.7	+0.1	0	Negligible
R55	11.6	11.7	0.0	0	Negligible
R188	12.2	12.9	+0.7	+2	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.20: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R54	17.1	17.1	0.0	0	Negligible
R55	15.7	15.7	0.0	0	Negligible
R188	16.6	16.7	0.2	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.21: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R54	9.9	10.0	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R55	9.5	9.5	0.0	0	Negligible
R188	9.6	9.7	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Coventry City Council

2019 Base and Model Verification Year

Table 11.22: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations ($\mu g.m^{-3}$)		
	NO_2	PM_{10}	$PM_{2.5}$
R56	34.9	18.4	12.1
R57	24.1	16.9	11.0
R58	29.3	17.5	11.3
STR4	*36.0*	*19.3*	*12.0*

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
STR5	*31.5*	*18.6*	*11.5*

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.23: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration (µg.m^{-3})				
	Scenario 4: 2026 Without HNRFI (µg.m^{-3})	Scenario 5: 2026 With HNRFI (µg.m^{-3})	Concentration Change* (µg.m^{-3})	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R56	26.1	26.3	+0.2	+1	Negligible
R57	16.2	16.3	+0.1	0	Negligible
R58	20.3	20.4	+0.1	0	Negligible
STR4	*22.5*	*22.8*	*+0.3*	*+1*	*Negligible*
STR5	*20.2*	*20.4*	*+0.2*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term*

air quality objectives only.

Table 11.24: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM10 Concentration (µg.m-3)				
	Scenario 4: 2026 Without HNRFI (µg.m-3)	**Scenario 5: 2026 With HNRFI (µg.m-3)**	**Concentration Change* (µg.m-3)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R56	18.3	18.3	+0.1	0	Negligible
R57	15.8	15.8	0.0	0	Negligible
R58	16.4	16.4	0.0	0	Negligible
STR4	*18.1*	*18.2*	*+0.1*	*0*	*Negligible*
STR5	*17.4*	*17.5*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.25: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R56	11.7	11.7	0.0	0	Negligible
R57	10.1	10.2	0.0	0	Negligible
R58	10.4	10.4	0.0	0	Negligible
STR4	*11.0*	*11.0*	*+0.1*	*0*	*Negligible*
STR5	*10.6*	*10.6*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036 Future Year

Table 11.26: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R56	21.0	21.2	+0.2	0	Negligible
R57	13.9	14.0	+0.1	0	Negligible
R58	17.7	17.7	0.0	0	Negligible
STR4	*18.5*	*18.7*	*+0.2*	*+1*	*Negligible*
STR5	*16.7*	*16.8*	*+0.1*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.27: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R56	18.5	18.6	+0.1	0	Negligible
R57	15.8	15.8	0.0	0	Negligible
R58	16.4	16.4	0.0	0	Negligible
STR4	*18.3*	*18.4*	*+0.1*	*0*	*Negligible*
STR5	*17.5*	*17.5*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.28: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R56	11.8	11.8	0.0	0	Negligible
R57	10.1	10.2	0.0	0	Negligible
R58	10.4	10.4	0.0	0	Negligible
STR4	*11.0*	*11.1*	*+0.1*	*0*	*Negligible*
STR5	*10.6*	*10.6*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

West Northamptonshire Council

2019 Base and Model Verification Year

Table 11.29: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R59	24.0	16.6	10.4
R60	26.8	16.8	10.6
STR6	21.0	16.5	10.3

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.30: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R59	14.4	14.4	0.0	0	Negligible
R60	15.9	15.9	0.0	0	Negligible
STR6	*13.0*	*13.0*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.31: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R59	15.4	15.4	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R60	15.6	15.6	0.0	0	Negligible
STR6	*15.4*	*15.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.32: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R59	9.4	9.4	0.0	0	Negligible
R60	9.5	9.5	0.0	0	Negligible
STR6	*9.3*	*9.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036 Future Year

Table 11.33: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R59	11.6	11.6	0.0	0	Negligible
R60	12.7	12.7	0.0	0	Negligible
STR6	*10.7*	*10.7*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.34: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R59	15.4	15.4	0.0	0	Negligible
R60	15.6	15.6	0.0	0	Negligible
STR6	*15.3*	*15.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.35: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R59	9.4	9.4	0.0	0	Negligible
R60	9.5	9.5	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR6	*9.3*	*9.3*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Erewash Borough Council

2019 Base and Model Verification Year

Table 11.36: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations ($\mu g.m^{-3}$)		
	NO_2	PM_{10}	$PM_{2.5}$
R61	26.6	16.1	10.3
R62	27.3	16.2	10.4
R63	23.3	15.7	10.0

2026 Opening Year

Table 11.37: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R61	17.5	17.5	0.0	0	Negligible
R62	17.8	17.8	0.0	0	Negligible
R63	15.9	15.9	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.38: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R61	15.0	15.0	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R62	15.1	15.1	0.0	0	Negligible
R63	14.7	14.7	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.39: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R61	9.4	9.4	0.0	0	Negligible
R62	9.5	9.5	0.0	0	Negligible
R63	9.2	9.2	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 11.40 Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R61	14.8	14.8	0.0	0	Negligible
R62	15.0	15.0	0.0	0	Negligible
R63	13.7	13.7	0.0	0	Negligible

** Discrepancies in changes due to rounding effects*

Table 11.41: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R61	15.0	15.0	0.0	0	Negligible
R62	15.1	15.1	0.0	0	Negligible
R63	14.6	14.6	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.42: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R61	9.4	9.4	0.0	0	Negligible
R62	9.5	9.5	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R63	9.2	9.2	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Harborough District Council

2019 Base and Model Verification Year

Table 11.43: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations ($\mu g.m^{-3}$)		
	NO_2	PM_{10}	$PM_{2.5}$
R53	11.8	13.9	8.8
R64	19.1	16.4	10.0
R65	23.8	17.9	10.7
R66	14.7	15.2	9.3
R67	28.9	18.4	11.1

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R68	25.6	16.8	10.4
R69	13.3	14.6	9.0
R70	14.0	14.8	9.1
R71	14.0	14.8	9.1
R72	14.5	14.4	9.2
R73	14.2	14.4	9.1
R74	14.0	14.7	9.4
R75	13.4	14.2	9.0
R76	13.8	14.3	9.0
R77	17.6	15.5	9.8

2026 Opening Year

Table 11.44: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	8.7	8.7	+0.1	0	Negligible
R64	11.3	11.4	+0.1	0	Negligible
R65	14.5	15.0	+0.5	+1	Negligible
R66	10.0	10.2	+0.2	+1	Negligible
R67	17.2	17.3	+0.1	0	Negligible
R68	14.3	15.4	+1.1	+3	Negligible
R69	9.4	9.6	+0.2	0	Negligible
R70	9.7	9.7	+0.1	0	Negligible
R71	9.8	10.1	+0.3	+1	Negligible
R72	10.6	10.7	+0.1	0	Negligible
R73	10.5	10.6	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R74	9.8	10.0	+0.2	0	Negligible
R75	9.6	9.5	0.0	0	Negligible
R76	9.7	9.6	-0.1	0	Negligible
R77	12.0	12.3	+0.3	+1	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.45: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	12.9	12.9	0.0	0	Negligible
R64	15.2	15.4	+0.2	+1	Negligible
R65	17.1	17.7	+0.5	+1	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R66	14.3	14.5	+0.2	0	Negligible
R67	17.1	17.2	0.0	0	Negligible
R68	15.5	15.7	+0.2	0	Negligible
R69	13.7	13.7	0.0	0	Negligible
R70	13.8	13.8	0.0	0	Negligible
R71	13.8	13.9	+0.1	0	Negligible
R72	13.6	13.6	0.0	0	Negligible
R73	13.6	13.6	0.0	0	Negligible
R74	13.7	13.8	0.0	0	Negligible
R75	13.3	13.2	0.0	0	Negligible
R76	13.3	13.3	0.0	0	Negligible
R77	14.6	14.7	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.46: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	8.0	8.0	0.0	0	Negligible
R64	9.0	9.1	+0.1	+1	Negligible
R65	10.0	10.3	+0.3	+1	Negligible
R66	8.6	8.6	+0.1	0	Negligible
R67	10.1	10.1	0.0	0	Negligible
R68	9.4	9.5	+0.1	0	Negligible
R69	8.2	8.3	0.0	0	Negligible
R70	8.3	8.3	0.0	0	Negligible
R71	8.3	8.4	+0.1	0	Negligible
R72	8.4	8.5	0.0	0	Negligible
R73	8.4	8.4	0.0	0	Negligible
R74	8.5	8.6	0.0	0	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R75	8.2	8.2	0.0	0	Negligible
R76	8.2	8.2	0.0	0	Negligible
R77	9.0	9.1	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

2036 Opening Year

Table 11.47: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	7.8	7.9	0.0	0	Negligible
R64	9.3	9.4	+0.1	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R65	12.0	12.2	+0.3	+1	Negligible
R66	8.7	8.8	+0.1	0	Negligible
R67	13.7	13.8	0.0	0	Negligible
R68	9.8	11.7	+2.0	+5	Negligible
R69	8.5	8.6	+0.2	0	Negligible
R70	8.6	8.7	+0.1	0	Negligible
R71	8.9	9.2	+0.3	+1	Negligible
R72	9.3	9.4	0.0	0	Negligible
R73	9.2	9.3	0.0	0	Negligible
R74	8.6	8.7	+0.1	0	Negligible
R75	8.4	8.4	0.0	0	Negligible
R76	8.5	8.5	0.0	0	Negligible
R77	10.3	10.4	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.48: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	12.8	12.9	0.0	0	Negligible
R64	15.2	15.4	+0.2	0	Negligible
R65	17.5	17.9	+0.5	+1	Negligible
R66	14.4	14.5	+0.2	0	Negligible
R67	17.2	17.2	0.0	0	Negligible
R68	15.1	15.5	+0.4	+1	Negligible
R69	13.8	13.8	+0.1	0	Negligible
R70	13.9	13.9	0.0	0	Negligible
R71	14.0	14.1	+0.1	0	Negligible
R72	13.7	13.7	0.0	0	Negligible
R73	13.7	13.7	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R74	13.7	13.8	0.0	0	Negligible
R75	13.3	13.3	0.0	0	Negligible
R76	13.3	13.3	0.0	0	Negligible
R77	14.8	14.9	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.49: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R53	8.0	8.0	0.0	0	Negligible
R64	9.0	9.1	+0.1	+1	Negligible

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R65	10.1	10.4	+0.2	+1	Negligible
R66	8.6	8.7	+0.1	0	Negligible
R67	10.1	10.1	0.0	0	Negligible
R68	9.1	9.3	+0.2	+1	Negligible
R69	8.3	8.3	0.0	0	Negligible
R70	8.3	8.3	0.0	0	Negligible
R71	8.4	8.5	+0.1	0	Negligible
R72	8.5	8.5	0.0	0	Negligible
R73	8.5	8.5	0.0	0	Negligible
R74	8.5	8.5	0.0	0	Negligible
R75	8.2	8.2	0.0	0	Negligible
R76	8.2	8.2	0.0	0	Negligible
R77	9.1	9.2	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

North Warwickshire Borough Council

2019 Base and Model Verification Year

Table 11.50: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R182	14.5	13.1	8.6
R183	16.8	13.9	8.9
R184	17.6	14.1	9.0
R185	13.6	13.0	8.5
R186	13.7	13.0	8.5
R213	31.3	18.2	11.0

2026 Opening Year

Table 11.51: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R182	10.6	10.6	0.0	0	Negligible
R183	11.3	11.3	0.0	0	Negligible
R184	11.7	11.7	0.0	0	Negligible
R185	10.2	10.2	0.0	0	Negligible
R186	10.2	10.2	0.0	0	Negligible
R213	18.9	19.0	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.52: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R182	12.2	12.2	0.0	0	Negligible
R183	12.9	13.0	0.0	0	Negligible
R184	13.1	13.2	0.0	0	Negligible
R185	12.0	12.0	0.0	0	Negligible
R186	12.0	12.0	0.0	0	Negligible
R213	17.1	17.1	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.53: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R182	7.8	7.8	0.0	0	Negligible
R183	8.1	8.1	0.0	0	Negligible
R184	8.2	8.2	0.0	0	Negligible
R185	7.7	7.7	0.0	0	Negligible
R186	7.7	7.7	0.0	0	Negligible
R213	10.1	10.1	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

2036 Future Year

Table 11.54: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R182	9.5	9.5	0.0	0	Negligible
R183	9.6	9.6	0.0	0	Negligible
R184	9.9	9.9	0.0	0	Negligible
R185	9.3	9.3	0.0	0	Negligible
R186	9.3	9.3	0.0	0	Negligible
R213	15.2	15.2	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.55: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R182	12.1	12.1	0.0	0	Negligible
R183	12.8	12.9	0.0	0	Negligible
R184	13.1	13.1	0.0	0	Negligible
R185	12.0	12.0	0.0	0	Negligible
R186	12.0	12.0	0.0	0	Negligible
R213	17.1	17.1	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.56: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R182	7.8	7.8	0.0	0	Negligible
R183	8.0	8.0	0.0	0	Negligible
R184	8.1	8.2	0.0	0	Negligible
R185	7.7	7.7	0.0	0	Negligible
R186	7.7	7.7	0.0	0	Negligible
R213	10.1	10.1	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

North West Leicestershire District Council

2019 Base and Model Verification Year

Table 11.57 Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R187	17.1	14.6	9.2
R193	34.6	17.8	10.8
R194	22.2	17.2	10.1
R195	16.2	17.1	9.8
R196	15.3	15.3	9.2
R197	19.7	16.2	9.7
R198	19.2	15.0	9.4
R199	29.9	17.7	10.5
R200	25.5	17.2	10.2
STR11	*36.1*	*19.0*	*11.1*
STR12	*21.9*	*16.6*	*10.1*
STR13	*21.9*	*16.3*	*9.7*

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.58: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R187	11.4	11.4	0.0	0	Negligible
R193	22.0	22.0	0.0	0	Negligible
R194	14.5	14.5	0.0	0	Negligible
R195	11.0	11.0	0.0	0	Negligible
R196	10.5	10.5	0.0	0	Negligible
R197	12.4	12.4	0.0	0	Negligible
R198	12.3	12.4	0.0	0	Negligible
R199	18.3	18.3	0.0	0	Negligible
R200	16.2	16.2	0.0	0	Negligible
STR11	*22.4*	*22.4*	*0.0*	*0*	*Negligible*

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR12	*13.8*	*13.8*	*0.0*	*0*	*Negligible*
STR13	*13.4*	*13.4*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.59: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R187	13.6	13.6	0.0	0	Negligible
R193	16.8	16.8	0.0	0	Negligible
R194	16.3	16.3	0.0	0	Negligible
R195	16.2	16.2	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R196	14.4	14.4	0.0	0	Negligible
R197	15.3	15.3	0.0	0	Negligible
R198	14.0	14.0	0.0	0	Negligible
R199	16.7	16.7	0.0	0	Negligible
R200	16.2	16.3	0.0	0	Negligible
STR11	*17.8*	*17.8*	*0.0*	*0*	*Negligible*
STR12	*15.6*	*15.6*	*0.0*	*0*	*Negligible*
STR13	*15.3*	*15.3*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.60: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R187	8.4	8.4	0.0	0	Negligible
R193	9.9	9.9	0.0	0	Negligible
R194	9.3	9.3	0.0	0	Negligible
R195	9.0	9.0	0.0	0	Negligible
R196	8.4	8.4	0.0	0	Negligible
R197	8.9	9.0	0.0	0	Negligible
R198	8.6	8.6	0.0	0	Negligible
R199	9.6	9.6	0.0	0	Negligible
R200	9.3	9.3	0.0	0	Negligible
STR11	*10.1*	*10.1*	*0.0*	*0*	*Negligible*
STR12	*9.3*	*9.3*	*0.0*	*0*	*Negligible*
STR13	*8.9*	*8.9*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036 Future Year

Table 11.61: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R187	9.7	9.8	0.0	0	Negligible
R193	17.9	17.9	0.0	0	Negligible
R194	12.1	12.1	0.0	0	Negligible
R195	9.5	9.5	0.0	0	Negligible
R196	9.1	9.1	0.0	0	Negligible
R197	10.3	10.3	0.0	0	Negligible
R198	10.4	10.4	0.0	0	Negligible
R199	14.7	14.7	0.0	0	Negligible
R200	13.2	13.2	0.0	0	Negligible
STR11	*18.2*	*18.2*	*0.0*	*0*	*Negligible*

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
STR12	*11.5*	*11.5*	*0.0*	*0*	*Negligible*
STR13	*10.9*	*10.9*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.62: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R187	13.6	13.6	0.0	0	Negligible
R193	16.8	16.8	0.0	0	Negligible
R194	16.3	16.3	0.0	0	Negligible
R195	16.1	16.1	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R196	14.4	14.4	0.0	0	Negligible
R197	15.3	15.3	0.0	0	Negligible
R198	14.0	14.1	0.0	0	Negligible
R199	16.7	16.7	0.0	0	Negligible
R200	16.2	16.2	0.0	0	Negligible
STR11	*17.8*	*17.8*	*0.0*	*0*	*Negligible*
STR12	*15.6*	*15.6*	*0.0*	*0*	*Negligible*
STR13	*15.3*	*15.3*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.63: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R187	8.3	8.3	0.0	0	Negligible
R193	9.8	9.8	0.0	0	Negligible
R194	9.3	9.3	0.0	0	Negligible
R195	9.0	9.0	0.0	0	Negligible
R196	8.4	8.4	0.0	0	Negligible
R197	8.9	8.9	0.0	0	Negligible
R198	8.6	8.6	0.0	0	Negligible
R199	9.6	9.6	0.0	0	Negligible
R200	9.3	9.3	0.0	0	Negligible
STR11	*10.1*	*10.1*	*0.0*	*0*	*Negligible*
STR12	*9.3*	*9.3*	*0.0*	*0*	*Negligible*
STR13	*8.8*	*8.9*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Nuneaton and Bedworth Borough Council

2019 Base and Model Verification Year

Table 11.64 Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R189	34.8	18.4	11.9
R190	26.3	17.5	11.3
R191	21.8	15.9	10.1
R192	23.3	16.3	10.3
STR10	*22.4*	*16.1*	*10.2*

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.65: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R189	23.3	23.3	+0.1	0	Negligible
R190	17.8	17.8	0.0	0	Negligible
R191	14.7	14.8	0.0	0	Negligible
R192	15.4	15.5	+0.1	0	Negligible
STR10	*15.0*	*15.0*	*+0.1*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.66: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R189	17.3	17.3	0.0	0	Negligible
R190	16.4	16.5	0.0	0	Negligible
R191	14.8	14.8	0.0	0	Negligible
R192	15.1	15.2	+0.1	0	Negligible
STR10	*14.8*	*14.9*	*+0.1*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.67: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R189	10.9	11.0	0.0	0	Negligible
R190	10.4	10.4	0.0	0	Negligible
R191	9.2	9.2	0.0	0	Negligible
R192	9.4	9.4	0.0	0	Negligible
STR10	*9.2*	*9.3*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036 Future Year

Table 11.68: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R189	19.8	19.8	+0.1	0	Negligible
R190	15.3	15.3	0.0	0	Negligible
R191	12.9	13.0	0.0	0	Negligible
R192	13.4	13.4	0.0	0	Negligible
STR10	*13.1*	*13.1*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.69: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R189	17.4	17.4	0.0	0	Negligible
R190	16.5	16.5	0.0	0	Negligible
R191	14.8	14.8	0.0	0	Negligible
R192	15.1	15.2	0.0	0	Negligible
STR10	*14.8*	*14.8*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.70: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R189	11.0	11.0	0.0	0	Negligible
R190	10.4	10.4	0.0	0	Negligible
R191	9.2	9.2	0.0	0	Negligible
R192	9.4	9.4	0.0	0	Negligible
STR10	*9.2*	*9.2*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Rugby Borough Council

2019 Base and Model Verification Year

Table 11.71: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R201	40.5	18.2	11.5
R202	40.7	18.5	11.6
R203	37.4	18.6	11.6
R204	30.5	18.3	11.2
R205	25.8	19.6	11.5
R206	28.5	20.0	11.8
R207	21.3	16.4	10.1
R208	21.5	15.6	9.8
R209	18.4	14.9	9.4
R210	19.5	15.1	9.6
R211	16.2	15.5	9.7
R212	17.6	15.8	9.8

2026 Opening Year

Table 11.72: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R201	24.9	25.8	+0.9	+2	Negligible
R202	25.0	25.9	+0.9	+2	Negligible
R203	21.9	21.9	+0.1	0	Negligible
R204	18.6	18.7	+0.1	0	Negligible
R205	14.5	16.9	+2.4	+6	slight adverse
R206	16.0	16.5	+0.5	+1	Negligible
R207	13.9	14.4	+0.5	+1	Negligible
R208	14.2	14.8	+0.6	+2	Negligible
R209	12.7	13.1	+0.4	+1	Negligible
R210	13.5	13.6	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R211	10.5	10.6	+0.1	0	Negligible
R212	11.2	11.3	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.73: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R201	17.0	17.3	+0.3	+1	Negligible
R202	17.4	17.7	+0.3	+1	Negligible
R203	17.4	17.4	0.0	0	Negligible
R204	17.1	17.1	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R205	18.2	18.8	+0.6	+2	Negligible
R206	18.6	18.8	+0.1	0	Negligible
R207	15.4	15.5	+0.2	0	Negligible
R208	14.6	14.9	+0.3	+1	Negligible
R209	13.9	14.0	+0.2	0	Negligible
R210	14.1	14.1	0.0	0	Negligible
R211	14.5	14.6	+0.1	0	Negligible
R212	14.8	14.9	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.74: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R201	10.5	10.7	+0.2	+1	Negligible
R202	10.5	10.8	+0.3	+1	Negligible
R203	10.5	10.5	0.0	0	Negligible
R204	10.2	10.2	0.0	0	Negligible
R205	10.4	10.8	+0.4	+2	Negligible
R206	10.6	10.7	+0.1	0	Negligible
R207	9.2	9.3	+0.1	0	Negligible
R208	9.0	9.1	+0.2	+1	Negligible
R209	8.6	8.6	+0.1	0	Negligible
R210	8.7	8.7	0.0	0	Negligible
R211	8.8	8.9	+0.1	0	Negligible
R212	9.0	9.1	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects*

2036 Future Year

Table 11.75: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R201	19.4	20.2	+0.7	+2	Negligible
R202	19.6	20.2	+0.6	+1	Negligible
R203	17.1	17.1	0.0	0	Negligible
R204	15.0	15.1	+0.1	0	Negligible
R205	11.8	13.6	+1.8	+5	Negligible
R206	13.2	13.6	+0.4	+1	Negligible
R207	11.7	12.1	+0.4	+1	Negligible
R208	12.2	12.8	+0.6	+2	Negligible
R209	11.2	11.5	+0.4	+1	Negligible
R210	11.9	12.0	0.0	0	Negligible

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R211	9.0	9.0	0.0	0	Negligible
R212	9.4	9.5	0.0	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.76: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R201	17.2	17.5	+0.3	+1	Negligible
R202	17.6	17.8	+0.3	+1	Negligible
R203	17.4	17.4	0.0	0	Negligible
R204	17.1	17.1	0.0	0	Negligible

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R205	18.2	18.9	+0.7	+2	Negligible
R206	18.9	19.0	+0.2	0	Negligible
R207	15.4	15.6	+0.2	0	Negligible
R208	14.7	15.0	+0.4	+1	Negligible
R209	13.9	14.1	+0.2	+1	Negligible
R210	14.3	14.2	0.0	0	Negligible
R211	14.5	14.5	+0.1	0	Negligible
R212	14.8	14.9	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Table 11.77: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor and monitoring locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R201	10.6	10.7	+0.2	+1	Negligible
R202	10.6	10.8	+0.2	+1	Negligible
R203	10.5	10.5	0.0	0	Negligible
R204	10.2	10.2	0.0	0	Negligible
R205	10.4	10.7	+0.4	+2	Negligible
R206	10.7	10.8	+0.1	0	Negligible
R207	9.2	9.3	+0.1	0	Negligible
R208	9.0	9.2	+0.2	+1	Negligible
R209	8.5	8.7	+0.1	+1	Negligible
R210	8.8	8.8	0.0	0	Negligible
R211	8.8	8.8	0.0	0	Negligible
R212	9.0	9.0	+0.1	0	Negligible

** Discrepancies in changes due to rounding effects.*

Tamworth Borough Council

2019 Base and Model Verification Year

Table 11.78: Predicted annual mean pollutant concentrations for Scenario 1: 2019 Base and Model Verification Year at existing receptor locations.

Existing Receptor	Scenario 1: 2019 Base and Model Verification Year Predicted Annual Mean Pollutant Concentrations (µg.m^{-3})		
	NO_2	PM_{10}	$PM_{2.5}$
R214	30.2	17.9	11.4
R215	25.3	16.6	10.7
R216	17.7	15.2	9.9
R217	34.9	18.1	11.7
R218	27.7	17.3	11.1
STR9	*18.7*	*15.8*	*10.1*

Italics indicates receptor relevant to short term air quality objectives only.

2026 Opening Year

Table 11.79: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R214	18.7	18.6	0.0	0	Negligible
R215	16.4	16.4	0.0	0	Negligible
R216	12.7	12.7	0.0	0	Negligible
R217	22.1	22.1	0.0	0	Negligible
R218	17.7	17.7	0.0	0	Negligible
STR9	*12.9*	*12.9*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.80: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R214	16.8	16.9	0.0	0	Negligible
R215	15.6	15.6	0.0	0	Negligible
R216	14.2	14.3	0.0	0	Negligible
R217	17.0	17.1	0.0	0	Negligible
R218	16.3	16.3	0.0	0	Negligible
STR9	*14.8*	*14.8*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.81: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 4: 2026 Without HNRFI ($\mu g.m^{-3}$)	Scenario 5: 2026 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R214	10.4	10.5	0.0	0	Negligible
R215	9.8	9.9	0.0	0	Negligible
R216	9.1	9.1	0.0	0	Negligible
R217	10.7	10.8	0.0	0	Negligible
R218	10.2	10.2	0.0	0	Negligible
STR9	*9.3*	*9.3*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

2036 Future Year

Table 11.82: Predicted annual mean NO_2 concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted NO_2 Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	**Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)**	**Concentration Change* ($\mu g.m^{-3}$)**	**Change in Concentration Relative to Air Quality Assessment Level (%)**	**Impact**
R214	14.8	14.8	0.0	0	Negligible
R215	13.6	13.6	0.0	0	Negligible
R216	11.3	11.2	0.0	0	Negligible
R217	17.9	17.9	-0.1	0	Negligible
R218	14.6	14.6	-0.1	0	Negligible
STR9	*11.1*	*11.1*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.83: Predicted annual mean PM_{10} concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted PM_{10} Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R214	16.8	16.8	0.0	0	Negligible
R215	15.5	15.6	0.0	0	Negligible
R216	14.2	14.2	0.0	0	Negligible
R217	17.1	17.1	0.0	0	Negligible
R218	16.3	16.3	0.0	0	Negligible
STR9	*14.7*	*14.8*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*

Table 11.84: Predicted annual mean $PM_{2.5}$ concentrations and HNRFI impact at existing receptor locations.

Receptor	Predicted $PM_{2.5}$ Concentration ($\mu g.m^{-3}$)				
	Scenario 6: 2036 Without HNRFI ($\mu g.m^{-3}$)	Scenario 7: 2036 With HNRFI ($\mu g.m^{-3}$)	Concentration Change* ($\mu g.m^{-3}$)	Change in Concentration Relative to Air Quality Assessment Level (%)	Impact
R214	10.4	10.4	0.0	0	Negligible
R215	9.8	9.8	0.0	0	Negligible
R216	9.1	9.1	0.0	0	Negligible
R217	10.7	10.7	0.0	0	Negligible
R218	10.2	10.2	0.0	0	Negligible
STR9	*9.3*	*9.3*	*0.0*	*0*	*Negligible*

** Discrepancies in changes due to rounding effects. Italics indicates receptor relevant to short term air quality objectives only.*