

**M42 Junction 6 Improvement
Scheme Number TR010027
Volume 6**

6.3 Environmental Statement
Appendix 6.3 Air Quality Modelling Results

Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

January 2019

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

**M42 Junction 6 Improvement
Development Consent Order 201[-]**

**6.3 Environmental Statement
Appendix 6.3 Air Quality Modelling Results**

Regulation Number	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010027
Application Document Reference	6.3
Author	M42 Junction 6 Improvement Project Team and Highways England

Version	Date	Status of Version
Rev	January 2019	DCO Application

Predicted Air Quality Modelling Results

The results for all modelled receptors (R1 to R64) for annual average NO₂, PM₁₀ and PM_{2.5} concentrations and also the number of days exceedance of the 24-hour average PM₁₀ air quality objective are presented in Table 1, Table 2 and Table 3 and Table 4 respectively.

The predicted annual mean NO_x concentrations and Nitrogen Deposition Rates for all ecological receptors (E1 to E33) are presented in Table 5 and Table 6 respectively.

Table 1: Annual Mean Nitrogen Dioxide Results

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base NO ₂ (µg/m ³)	Projected 2023 Base NO ₂ (µg/m ³)	2023 Do- Minimum NO ₂ (µg/m ³)	2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Minimum NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} Change (µg/m ³)
		X	Y							
R1	6.2	418707	285791	26.5	19.7	20.0	19.9	21.0	21.0	<0.1
R2	6.2	416490	286096	28.5	21.9	22.1	22.1	22.5	22.5	<0.1
R3	6.2	416477	286032	28.9	22.7	22.8	22.8	22.8	22.8	<0.1
R4	6.2	416597	286008	28.7	21.4	21.8	21.8	22.9	22.9	<0.1
R5	6.2	416187	286297	24.8	19.2	19.2	19.2	19.5	19.5	<0.1
R6	6.2	416749	285624	28.2	21.3	21.6	21.6	22.4	22.4	<0.1
R7	6.2	418788	286122	26.8	19.7	19.8	19.8	21.2	21.2	<0.1
R8	6.2	418107	285092	26.8	19.9	20.1	20.2	21.2	21.3	0.1
R9	6.2	418485	284939	25.5	19.6	19.8	19.8	20.2	20.2	<0.1
R10	6.2	419454	285113	26.3	19.4	19.6	19.6	20.8	20.8	<0.1
R11	6.2	417988	285581	25.2	19.4	19.4	19.4	19.9	19.9	<0.1
R12	6.2	420048	284911	26.2	18.8	18.8	18.9	20.6	20.7	<0.1
R13	6.2	421044	284462	25.0	18.2	18.2	18.2	19.7	19.7	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base NO ₂ (µg/m ³)	Projected 2023 Base NO ₂ (µg/m ³)	2023 Do- Minimum NO ₂ (µg/m ³)	2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Minimum NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} Change (µg/m ³)
		X	Y							
R14	6.2	420220	283235	26.0	18.8	18.9	18.9	20.5	20.4	<0.1
R15	6.2	419343	282727	26.4	19.0	19.2	19.2	20.9	20.8	-0.1
R16	6.2	419093	283047	37.9	25.5	26.9	26.3	31.3	30.6	-0.8
R17	6.2	418493	282881	34.3	23.4	24.3	24.4	28.0	28.1	0.1
R18	6.2	418655	284111	26.6	20.2	20.5	20.5	21.1	21.2	0.1
R19	6.2	417280	283114	38.3	26.6	27.6	27.7	31.2	31.2	<0.1
R20	6.2	419812	282855	57.4	36.6	38.1	36.3	46.9	44.7	-2.2
R21	6.2	420087	283032	44.8	29.5	29.8	29.5	35.4	35.1	-0.3
R22	6.2	422279	283180	31.8	21.8	22.1	22.1	25.3	25.3	<0.1
R23	6.2	421800	283115	32.9	22.4	22.7	22.7	26.2	26.2	<0.1
R24	6.2	422195	282146	24.9	18.3	18.3	18.3	19.6	19.5	<0.1
R25	6.2	420908	281550	25.5	18.6	18.7	18.7	20.1	20.1	<0.1
R26	6.2	420327	280871	32.2	22.4	23.0	22.9	25.9	25.8	-0.1
R27	6.2	420036	280242	25.0	18.5	18.5	18.5	19.7	19.7	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base NO ₂ (µg/m ³)	Projected 2023 Base NO ₂ (µg/m ³)	2023 Do- Minimum NO ₂ (µg/m ³)	2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Minimum NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} Change (µg/m ³)
		X	Y							
R28	6.2	419306	279258	25.1	18.6	18.7	18.7	19.8	19.8	<0.1
R29	6.2	419770	278806	24.5	18.3	18.4	18.4	19.4	19.4	<0.1
R30	6.2	421973	278516	24.7	18.6	18.6	18.6	19.4	19.4	<0.1
R31	6.2	417172	278272	27.9	20.0	20.5	20.6	22.5	22.5	<0.1
R32	6.2	416894	278427	29.5	20.8	21.1	21.2	23.5	23.6	<0.1
R33	6.2	416347	279561	25.5	18.7	18.8	18.8	20.2	20.2	<0.1
R34	6.2	416321	279020	26.3	19.0	19.1	19.1	20.8	20.8	<0.1
R35	6.2	416619	280895	25.2	19.0	19.2	19.2	20.0	19.9	<0.1
R36	6.2	416539	282078	26.0	19.8	20.0	20.0	20.6	20.6	<0.1
R37	6.2	417000	280003	26.1	19.2	19.2	19.2	20.5	20.5	<0.1
R38	6.2	418129	280501	27.5	19.7	20.0	20.0	21.9	21.9	<0.1
R39	6.2	418610	280613	26.0	18.9	19.0	19.1	20.6	20.6	<0.1
R40	6.2	418624	281610	25.4	18.5	18.6	19.0	20.1	20.5	0.4
R41	6.2	418982	281424	26.1	18.8	19.0	19.1	20.6	20.7	0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base NO ₂ (µg/m ³)	Projected 2023 Base NO ₂ (µg/m ³)	2023 Do- Minimum NO ₂ (µg/m ³)	2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Minimum NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} Change (µg/m ³)
		X	Y							
R42	6.2	418415	281253	25.9	18.8	19.0	18.7	20.5	20.2	-0.3
R43	6.2	418545	281744	26.5	19.1	19.4	19.5	21.1	21.2	0.1
R44	6.2	418390	281565	25.1	18.3	18.4	18.6	19.8	20.0	0.2
R45	6.2	418588	281930	26.0	18.8	19.0	19.0	20.6	20.5	-0.1
R46	6.2	418663	282398	25.5	18.7	18.8	19.4	20.2	20.8	0.6
R47	6.2	419534	281305	27.1	19.5	19.7	19.6	21.5	21.3	-0.1
R48	6.2	418024	279007	27.9	20.1	20.3	20.3	22.2	22.2	<0.1
R49	6.2	418539	279877	27.0	19.6	19.8	19.8	21.4	21.4	<0.1
R50	6.2	418090	285870	25.7	19.3	19.5	19.5	20.3	20.3	<0.1
R51	6.2	418542	282510	26.5	19.2	19.5	19.3	21.1	20.9	-0.3
R52	6.2	418861	282302	25.3	18.5	18.6	18.7	20.0	20.1	0.1
R53	6.2	419259	280608	28.3	20.1	20.3	20.3	22.4	22.4	<0.1
R54	6.2	416819	278484	29.6	20.8	21.1	21.2	23.6	23.6	<0.1
R55	6.2	417931	285605	25.5	19.5	19.6	19.6	20.1	20.1	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base NO ₂ (µg/m ³)	Projected 2023 Base NO ₂ (µg/m ³)	2023 Do- Minimum NO ₂ (µg/m ³)	2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Minimum NO ₂ (µg/m ³)	LTT _{E6} 2023 Do- Something NO ₂ (µg/m ³)	LTT _{E6} Change (µg/m ³)
		X	Y							
R56	6.2	416279	280318	25.2	19.0	19.2	19.1	20.0	19.9	<0.1
R57	6.2	417096	285440	24.8	19.1	19.2	19.2	19.5	19.5	<0.1
R58	6.2	417009	285353	24.5	19.0	19.0	19.0	19.3	19.3	<0.1
R59	6.2	417723	285519	25.2	19.3	19.4	19.4	19.8	19.8	<0.1
R60	6.2	418844	282547	25.4	18.6	18.7	18.9	20.1	20.3	0.2
R61	6.2	416346	280387	25.1	18.9	19.1	19.1	19.9	19.9	<0.1
R62	6.2	416351	280474	24.6	18.7	18.7	18.7	19.4	19.4	<0.1
R63	6.2	417626	278717	29.9	21.0	21.4	21.4	23.9	23.9	0.1
R64	6.2	420294	281275	25.5	18.6	18.7	18.7	20.1	20.1	<0.1

Table 1: Annual Mean Particulate Matter (PM₁₀) Results

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (µg/m ³)	Projected 2023 Base PM ₁₀ (µg/m ³)	2023 Do- Minimum PM ₁₀ (µg/m ³)	2023 Do- Something PM ₁₀ (µg/m ³)	Change (µg/m ³)
		X	Y					
R1	6.2	418707	285791	14.0	13.3	13.4	13.4	<0.1
R2	6.2	416490	286096	14.7	14.1	14.1	14.1	<0.1
R3	6.2	416477	286032	14.6	13.9	14.0	14.0	<0.1
R4	6.2	416597	286008	14.9	14.2	14.3	14.3	<0.1
R5	6.2	416187	286297	14.3	13.7	13.7	13.7	<0.1
R6	6.2	416749	285624	14.6	13.9	13.9	13.9	<0.1
R7	6.2	418788	286122	14.8	14.2	14.2	14.2	<0.1
R8	6.2	418107	285092	14.1	13.4	13.4	13.4	<0.1
R9	6.2	418485	284939	14.3	13.5	13.5	13.5	<0.1
R10	6.2	419454	285113	16.0	15.3	15.3	15.3	<0.1
R11	6.2	417988	285581	14.0	13.3	13.3	13.3	<0.1
R12	6.2	420048	284911	16.1	15.5	15.5	15.5	<0.1
R13	6.2	421044	284462	14.7	14.1	14.1	14.1	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (µg/m ³)	Projected 2023 Base PM ₁₀ (µg/m ³)	2023 Do- Minimum PM ₁₀ (µg/m ³)	2023 Do- Something PM ₁₀ (µg/m ³)	Change (µg/m ³)
		X	Y					
R14	6.2	420220	283235	17.0	16.6	16.6	16.6	<0.1
R15	6.2	419343	282727	16.2	15.6	15.6	15.6	<0.1
R16	6.2	419093	283047	18.0	17.1	17.5	17.3	-0.2
R17	6.2	418493	282881	16.5	15.7	15.9	15.9	<0.1
R18	6.2	418655	284111	14.4	13.7	13.7	13.7	<0.1
R19	6.2	417280	283114	17.2	16.0	16.3	16.3	<0.1
R20	6.2	419812	282855	20.6	19.2	19.5	19.1	-0.4
R21	6.2	420087	283032	19.4	18.6	18.7	18.7	-0.1
R22	6.2	422279	283180	14.9	14.1	14.2	14.2	<0.1
R23	6.2	421800	283115	17.1	16.4	16.4	16.4	<0.1
R24	6.2	422195	282146	13.3	12.7	12.8	12.7	<0.1
R25	6.2	420908	281550	13.7	13.1	13.1	13.1	<0.1
R26	6.2	420327	280871	14.3	13.5	13.6	13.6	<0.1
R27	6.2	420036	280242	13.4	12.8	12.8	12.8	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (µg/m ³)	Projected 2023 Base PM ₁₀ (µg/m ³)	2023 Do- Minimum PM ₁₀ (µg/m ³)	2023 Do- Something PM ₁₀ (µg/m ³)	Change (µg/m ³)
		X	Y					
R28	6.2	419306	279258	13.3	12.7	12.7	12.7	<0.1
R29	6.2	419770	278806	12.9	12.3	12.3	12.3	<0.1
R30	6.2	421973	278516	13.2	12.6	12.6	12.6	<0.1
R31	6.2	417172	278272	15.8	15.1	15.3	15.3	<0.1
R32	6.2	416894	278427	15.6	14.9	14.9	14.9	<0.1
R33	6.2	416347	279561	13.8	13.2	13.3	13.3	<0.1
R34	6.2	416321	279020	13.9	13.3	13.4	13.4	<0.1
R35	6.2	416619	280895	13.2	12.6	12.7	12.7	<0.1
R36	6.2	416539	282078	13.9	13.3	13.4	13.4	<0.1
R37	6.2	417000	280003	13.4	12.8	12.8	12.8	<0.1
R38	6.2	418129	280501	15.5	14.9	14.9	15.0	<0.1
R39	6.2	418610	280613	15.3	14.7	14.7	14.7	<0.1
R40	6.2	418624	281610	13.6	13.0	13.0	13.1	0.1
R41	6.2	418982	281424	13.6	13.0	13.0	13.0	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (µg/m ³)	Projected 2023 Base PM ₁₀ (µg/m ³)	2023 Do- Minimum PM ₁₀ (µg/m ³)	2023 Do- Something PM ₁₀ (µg/m ³)	Change (µg/m ³)
		X	Y					
R42	6.2	418415	281253	13.6	13.0	13.1	13.0	-0.1
R43	6.2	418545	281744	13.8	13.1	13.2	13.2	0.1
R44	6.2	418390	281565	13.5	12.9	12.9	13.0	0.1
R45	6.2	418588	281930	13.7	13.1	13.1	13.1	<0.1
R46	6.2	418663	282398	15.0	14.4	14.4	14.6	0.1
R47	6.2	419534	281305	16.3	15.7	15.7	15.7	<0.1
R48	6.2	418024	279007	16.2	15.6	15.6	15.6	<0.1
R49	6.2	418539	279877	16.2	15.6	15.6	15.6	<0.1
R50	6.2	418090	285870	13.9	13.2	13.3	13.3	<0.1
R51	6.2	418542	282510	15.2	14.6	14.6	14.5	-0.1
R52	6.2	418861	282302	15.0	14.3	14.4	14.4	<0.1
R53	6.2	419259	280608	15.6	14.9	14.9	15.0	<0.1
R54	6.2	416819	278484	15.6	14.9	14.9	14.9	<0.1
R55	6.2	417931	285605	14.0	13.3	13.3	13.3	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (µg/m ³)	Projected 2023 Base PM ₁₀ (µg/m ³)	2023 Do- Minimum PM ₁₀ (µg/m ³)	2023 Do- Something PM ₁₀ (µg/m ³)	Change (µg/m ³)
		X	Y					
R56	6.2	416279	280318	13.2	12.6	12.7	12.7	<0.1
R57	6.2	417096	285440	13.9	13.2	13.2	13.2	<0.1
R58	6.2	417009	285353	13.9	13.2	13.2	13.2	<0.1
R59	6.2	417723	285519	14.0	13.3	13.3	13.3	<0.1
R60	6.2	418844	282547	15.0	14.4	14.4	14.4	<0.1
R61	6.2	416346	280387	13.2	12.6	12.7	12.7	<0.1
R62	6.2	416351	280474	13.1	12.5	12.6	12.6	<0.1
R63	6.2	417626	278717	15.8	15.1	15.2	15.2	<0.1
R64	6.2	420294	281275	13.7	13.1	13.1	13.1	<0.1

Table 2: Annual Mean Particulate Matter (PM_{2.5}) Results

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM _{2.5} (µg/m ³)	Projected 2023 Base PM _{2.5} (µg/m ³)	2023 Do- Minimum PM _{2.5} (µg/m ³)	2023 Do- Something PM _{2.5} (µg/m ³)	Change (µg/m ³)
		X	Y					
R1	6.2	418707	285791	9.5	8.8	8.8	8.8	<0.1
R2	6.2	416490	286096	9.9	9.2	9.2	9.2	<0.1
R3	6.2	416477	286032	9.8	9.2	9.2	9.2	<0.1
R4	6.2	416597	286008	10.0	9.3	9.4	9.4	<0.1
R5	6.2	416187	286297	9.7	9.0	9.0	9.0	<0.1
R6	6.2	416749	285624	9.9	9.2	9.2	9.2	<0.1
R7	6.2	418788	286122	9.9	9.2	9.2	9.2	<0.1
R8	6.2	418107	285092	9.5	8.8	8.9	8.9	<0.1
R9	6.2	418485	284939	9.7	8.9	8.9	8.9	<0.1
R10	6.2	419454	285113	10.4	9.8	9.8	9.8	<0.1
R11	6.2	417988	285581	9.5	8.8	8.8	8.8	<0.1
R12	6.2	420048	284911	10.4	9.7	9.7	9.7	<0.1
R13	6.2	421044	284462	9.7	9.0	9.0	9.0	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM _{2.5} (µg/m ³)	Projected 2023 Base PM _{2.5} (µg/m ³)	2023 Do- Minimum PM _{2.5} (µg/m ³)	2023 Do- Something PM _{2.5} (µg/m ³)	Change (µg/m ³)
		X	Y					
R14	6.2	420220	283235	10.2	9.5	9.6	9.5	<0.1
R15	6.2	419343	282727	10.5	9.9	9.9	9.9	<0.1
R16	6.2	419093	283047	11.6	10.7	10.9	10.8	-0.1
R17	6.2	418493	282881	10.8	10.0	10.1	10.1	<0.1
R18	6.2	418655	284111	9.8	9.0	9.0	9.0	<0.1
R19	6.2	417280	283114	11.4	10.3	10.5	10.5	<0.1
R20	6.2	419812	282855	13.2	11.9	12.1	11.8	-0.2
R21	6.2	420087	283032	11.6	10.7	10.7	10.7	<0.1
R22	6.2	422279	283180	9.9	9.2	9.2	9.2	<0.1
R23	6.2	421800	283115	10.9	10.2	10.2	10.2	<0.1
R24	6.2	422195	282146	9.0	8.4	8.4	8.4	<0.1
R25	6.2	420908	281550	9.3	8.7	8.7	8.7	<0.1
R26	6.2	420327	280871	9.7	9.0	9.0	9.0	<0.1
R27	6.2	420036	280242	9.2	8.6	8.6	8.6	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM _{2.5} (µg/m ³)	Projected 2023 Base PM _{2.5} (µg/m ³)	2023 Do- Minimum PM _{2.5} (µg/m ³)	2023 Do- Something PM _{2.5} (µg/m ³)	Change (µg/m ³)
		X	Y					
R28	6.2	419306	279258	9.1	8.5	8.5	8.5	<0.1
R29	6.2	419770	278806	8.8	8.3	8.3	8.3	<0.1
R30	6.2	421973	278516	9.0	8.4	8.4	8.4	<0.1
R31	6.2	417172	278272	10.3	9.7	9.8	9.8	<0.1
R32	6.2	416894	278427	10.3	9.6	9.6	9.6	<0.1
R33	6.2	416347	279561	9.4	8.8	8.8	8.8	<0.1
R34	6.2	416321	279020	9.4	8.8	8.8	8.8	<0.1
R35	6.2	416619	280895	9.0	8.4	8.5	8.5	<0.1
R36	6.2	416539	282078	9.4	8.8	8.9	8.9	<0.1
R37	6.2	417000	280003	9.1	8.5	8.5	8.5	<0.1
R38	6.2	418129	280501	10.1	9.5	9.6	9.6	<0.1
R39	6.2	418610	280613	10.0	9.4	9.4	9.4	<0.1
R40	6.2	418624	281610	9.2	8.5	8.6	8.6	0.1
R41	6.2	418982	281424	9.2	8.6	8.6	8.6	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM _{2.5} (µg/m ³)	Projected 2023 Base PM _{2.5} (µg/m ³)	2023 Do- Minimum PM _{2.5} (µg/m ³)	2023 Do- Something PM _{2.5} (µg/m ³)	Change (µg/m ³)
		X	Y					
R42	6.2	418415	281253	9.2	8.6	8.6	8.6	<0.1
R43	6.2	418545	281744	9.3	8.6	8.7	8.7	<0.1
R44	6.2	418390	281565	9.1	8.5	8.5	8.6	<0.1
R45	6.2	418588	281930	9.2	8.6	8.6	8.6	<0.1
R46	6.2	418663	282398	9.9	9.3	9.3	9.4	0.1
R47	6.2	419534	281305	10.6	9.9	10.0	10.0	<0.1
R48	6.2	418024	279007	10.6	10.0	10.0	10.0	<0.1
R49	6.2	418539	279877	10.5	9.9	9.9	10.0	<0.1
R50	6.2	418090	285870	9.4	8.8	8.8	8.8	<0.1
R51	6.2	418542	282510	10.0	9.4	9.4	9.4	<0.1
R52	6.2	418861	282302	9.9	9.3	9.3	9.3	<0.1
R53	6.2	419259	280608	10.2	9.5	9.6	9.6	<0.1
R54	6.2	416819	278484	10.3	9.6	9.6	9.6	<0.1
R55	6.2	417931	285605	9.5	8.8	8.8	8.8	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM _{2.5} (µg/m ³)	Projected 2023 Base PM _{2.5} (µg/m ³)	2023 Do- Minimum PM _{2.5} (µg/m ³)	2023 Do- Something PM _{2.5} (µg/m ³)	Change (µg/m ³)
		X	Y					
R56	6.2	416279	280318	9.0	8.4	8.5	8.5	<0.1
R57	6.2	417096	285440	9.5	8.8	8.8	8.8	<0.1
R58	6.2	417009	285353	9.4	8.8	8.8	8.8	<0.1
R59	6.2	417723	285519	9.5	8.8	8.8	8.8	<0.1
R60	6.2	418844	282547	9.9	9.3	9.3	9.3	<0.1
R61	6.2	416346	280387	9.0	8.4	8.5	8.4	<0.1
R62	6.2	416351	280474	9.0	8.4	8.4	8.4	<0.1
R63	6.2	417626	278717	10.4	9.7	9.7	9.7	<0.1
R64	6.2	420294	281275	9.3	8.7	8.7	8.7	<0.1

Table 3: Predicted Number of Exceedances of the 24-hour Particulate Matter (PM₁₀) Objective Value (>50 µg/m³)

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (Days)	2023 Do-Minimum PM ₁₀ (Days)	2023 Do-Something PM ₁₀ (Days)	Change (Days)
		X	Y				
R1	6.2	418707	285791	0.2	0.4	0.4	1.0
R2	6.2	416490	286096	0.1	0.2	0.2	-1.0
R3	6.2	416477	286032	0.1	0.2	0.2	-1.0
R4	6.2	416597	286008	0.1	0.1	0.1	-1.0
R5	6.2	416187	286297	0.1	0.3	0.3	-1.0
R6	6.2	416749	285624	0.1	0.2	0.2	-1.0
R7	6.2	418788	286122	0.1	0.2	0.2	1.0

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (Days)	2023 Do-Minimum PM ₁₀ (Days)	2023 Do-Something PM ₁₀ (Days)	Change (Days)
		X	Y				
R8	6.2	418107	285092	0.2	0.4	0.4	-1.0
R9	6.2	418485	284939	0.1	0.3	0.3	-1.0
R10	6.2	419454	285113	0.3	0.2	0.2	1.0
R11	6.2	417988	285581	0.2	0.4	0.4	1.0
R12	6.2	420048	284911	0.4	0.2	0.2	1.0
R13	6.2	421044	284462	0.1	0.2	0.2	1.0
R14	6.2	420220	283235	0.7	0.5	0.5	-1.0
R15	6.2	419343	282727	0.4	0.2	0.2	-1.0
R16	6.2	419093	283047	1.4	1.0	0.9	-1.0
R17	6.2	418493	282881	0.5	0.3	0.3	1.0
R18	6.2	418655	284111	0.1	0.3	0.3	-1.0
R19	6.2	417280	283114	0.8	0.4	0.4	1.0
R20	6.2	419812	282855	4.2	2.8	2.4	-1.0
R21	6.2	420087	283032	2.7	2.0	2.0	-1.0

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (Days)	2023 Do-Minimum PM ₁₀ (Days)	2023 Do-Something PM ₁₀ (Days)	Change (Days)
		X	Y				
R22	6.2	422279	283180	0.1	0.2	0.2	1.0
R23	6.2	421800	283115	0.8	0.5	0.5	1.0
R24	6.2	422195	282146	0.4	0.7	0.7	1.0
R25	6.2	420908	281550	0.3	0.5	0.5	1.0
R26	6.2	420327	280871	0.2	0.3	0.3	1.0
R27	6.2	420036	280242	0.3	0.6	0.6	-1.0
R28	6.2	419306	279258	0.4	0.7	0.7	-1.0
R29	6.2	419770	278806	0.6	0.9	0.9	-1.0
R30	6.2	421973	278516	0.4	0.7	0.7	1.0
R31	6.2	417172	278272	0.2	0.2	0.2	1.0
R32	6.2	416894	278427	0.2	0.1	0.1	1.0
R33	6.2	416347	279561	0.2	0.4	0.4	1.0
R34	6.2	416321	279020	0.2	0.4	0.4	-1.0
R35	6.2	416619	280895	0.4	0.7	0.7	1.0

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (Days)	2023 Do-Minimum PM ₁₀ (Days)	2023 Do-Something PM ₁₀ (Days)	Change (Days)
		X	Y				
R36	6.2	416539	282078	0.2	0.4	0.4	1.0
R37	6.2	417000	280003	0.4	0.6	0.6	-1.0
R38	6.2	418129	280501	0.2	0.1	0.1	1.0
R39	6.2	418610	280613	0.2	0.1	0.1	-1.0
R40	6.2	418624	281610	0.3	0.5	0.5	-1.0
R41	6.2	418982	281424	0.3	0.5	0.5	-1.0
R42	6.2	418415	281253	0.3	0.5	0.5	1.0
R43	6.2	418545	281744	0.2	0.5	0.4	-1.0
R44	6.2	418390	281565	0.3	0.6	0.5	-1.0
R45	6.2	418588	281930	0.3	0.5	0.5	1.0
R46	6.2	418663	282398	0.1	0.1	0.1	-1.0
R47	6.2	419534	281305	0.4	0.2	0.2	-1.0
R48	6.2	418024	279007	0.4	0.2	0.2	1.0
R49	6.2	418539	279877	0.4	0.2	0.2	1.0

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (Days)	2023 Do-Minimum PM ₁₀ (Days)	2023 Do-Something PM ₁₀ (Days)	Change (Days)
		X	Y				
R50	6.2	418090	285870	0.2	0.4	0.4	-1.0
R51	6.2	418542	282510	0.1	0.1	0.1	1.0
R52	6.2	418861	282302	0.1	0.1	0.1	-1.0
R53	6.2	419259	280608	0.2	0.1	0.1	1.0
R54	6.2	416819	278484	0.2	0.1	0.1	1.0
R55	6.2	417931	285605	0.2	0.4	0.4	1.0
R56	6.2	416279	280318	0.4	0.7	0.7	1.0
R57	6.2	417096	285440	0.2	0.4	0.4	-1.0
R58	6.2	417009	285353	0.2	0.4	0.4	-1.0
R59	6.2	417723	285519	0.2	0.4	0.4	1.0
R60	6.2	418844	282547	0.1	0.1	0.1	-1.0
R61	6.2	416346	280387	0.4	0.7	0.7	1.0
R62	6.2	416351	280474	0.5	0.8	0.8	1.0
R63	6.2	417626	278717	0.3	0.1	0.1	1.0

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2016 Base PM ₁₀ (Days)	2023 Do-Minimum PM ₁₀ (Days)	2023 Do-Something PM ₁₀ (Days)	Change (Days)
		X	Y				
R64	6.2	420294	281275	0.3	0.5	0.5	-1.0

Table 4: Annual average NOx at designated habitats

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum NOx concentration ($\mu\text{g}/\text{m}^3$)	2023 Do Something NOx concentration ($\mu\text{g}/\text{m}^3$)	Change in concentration ($\mu\text{g}/\text{m}^3$)
		X	Y			
E1a	6.2	418765	281600	22.5	22.9	0.3
E1b	6.2	418769	281602	22.5	22.9	0.3
E1c	6.2	418773	281605	22.5	22.9	0.3
E1d	6.2	418777	281608	22.5	22.9	0.3
E1e	6.2	418781	281611	22.5	22.8	0.3
E1f	6.2	418802	281624	22.6	22.8	0.3
E1g	6.2	418824	281638	22.6	22.8	0.2
E1h	6.2	418845	281651	22.6	22.8	0.2
E1i	6.2	418866	281665	22.6	22.8	0.2
E1j	6.2	418887	281678	22.7	22.8	0.2
E2a	6.2	418302	282025	21.9	22.5	0.5
E2b	6.2	418298	282028	21.9	22.4	0.5
E2c	6.2	418294	282031	21.9	22.4	0.5

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum NOx concentration (µg/m ³)	2023 Do Something NOx concentration (µg/m ³)	Change in concentration (µg/m ³)
		X	Y			
E2d	6.2	418290	282034	21.9	22.4	0.5
E2e	6.2	418285	282036	21.9	22.4	0.4
E2f	6.2	418264	282050	21.9	22.3	0.4
E2g	6.2	418243	282063	21.9	22.2	0.3
E2h	6.2	418222	282077	21.9	22.1	0.3
E2i	6.2	418201	282090	21.9	22.1	0.2
E2j	6.2	418180	282104	21.8	22.0	0.2
E3	6.2	418592	279501	56.7	57.1	0.4
E4	6.2	418622	279481	56.7	57.1	0.4
E5a	6.2	419794	285613	55.4	55.6	0.2
E5b	6.2	419829	285618	39.7	39.8	0.1
E5c	6.2	419863	285623	36.2	36.3	<0.1
E5d	6.2	419897	285629	34.6	34.7	<0.1
E5e	6.2	419931	285634	33.7	33.8	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum NOx concentration (µg/m ³)	2023 Do Something NOx concentration (µg/m ³)	Change in concentration (µg/m ³)
		X	Y			
E5f	6.2	419965	285639	33.2	33.2	<0.1
E5g	6.2	419999	285644	32.9	32.9	<0.1
E5h	6.2	420034	285649	32.8	32.8	<0.1
E5i	6.2	420068	285654	33.0	33.0	<0.1
E5j	6.2	420102	285660	35.9	35.9	<0.1
E6	6.2	418828	281443	22.5	22.9	0.4
E7	6.2	418604	281584	22.6	23.6	1.0
E8	6.2	418288	281601	21.6	21.8	0.2
E9	6.2	418533	282346	27.7	29.1	1.4
E10	6.2	419913	283658	59.6	56.5	-3.0
E11	6.2	419875	283648	71.9	71.5	-0.4
E12	6.2	420505	283032	37.2	36.8	-0.4
E13	6.2	420573	283203	44.4	44.2	-0.2
E14	6.2	418455	282153	26.7	28.6	1.9

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum NOx concentration (µg/m ³)	2023 Do Something NOx concentration (µg/m ³)	Change in concentration (µg/m ³)
		X	Y			
E15	6.2	418427	281813	22.0	23.1	1.1
E16	6.2	418436	281763	22.1	22.9	0.8
E17	6.2	418560	281483	22.5	25.7	3.2
E18	6.2	418642	281570	23.5	24.2	0.7
E19	6.2	419066	280603	41.7	36.2	-5.5
E20	6.2	419108	280579	45.8	40.2	-5.6
E21	6.2	418658	283015	63.6	61.5	-2.1
E22	6.2	418777	283186	48.9	53.0	4.1
E23	6.2	419066	280603	41.7	36.2	-5.5
E24	6.2	419261	281253	40.0	38.8	-1.2
E25	6.2	419296	281542	32.0	31.6	-0.4
E26	6.2	419867	283646	58.0	57.7	-0.3
E27	6.2	419911	283658	64.5	56.6	-7.9
E28	6.2	419108	280579	45.8	40.2	-5.6

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum NOx concentration ($\mu\text{g}/\text{m}^3$)	2023 Do Something NOx concentration ($\mu\text{g}/\text{m}^3$)	Change in concentration ($\mu\text{g}/\text{m}^3$)
		X	Y			
E29	6.2	417648	285535	27.2	27.2	<0.1
E30	6.2	418394	285050	28.9	29.0	<0.1
E31	6.2	416550	282509	22.4	22.4	<0.1
E32	6.2	416800	281565	22.8	22.7	-0.1
E33	6.2	416391	278515	28.5	28.5	<0.1

Table 5: Annual average nitrogen deposition rates at designated habitats

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum N- Deposition Rate (kg N/ha/yr)	2023 Do Something N- Deposition Rate (kg N/ha/yr)	Change in Rate (kg N/ha/yr)
		X	Y			
E1a	6.2	418765	281600	18.1	18.1	<0.1
E1b	6.2	418769	281602	18.1	18.1	<0.1
E1c	6.2	418773	281605	18.1	18.1	<0.1
E1d	6.2	418777	281608	18.1	18.1	<0.1
E1e	6.2	418781	281611	18.1	18.1	<0.1
E1f	6.2	418802	281624	18.1	18.1	<0.1
E1g	6.2	418824	281638	18.1	18.1	<0.1
E1h	6.2	418845	281651	18.1	18.1	<0.1
E1i	6.2	418866	281665	18.1	18.1	<0.1
E1j	6.2	418887	281678	18.1	18.1	<0.1
E2a	6.2	418302	282025	18.0	18.1	<0.1
E2b	6.2	418298	282028	18.0	18.1	<0.1
E2c	6.2	418294	282031	18.0	18.1	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum N- Deposition Rate (kg N/ha/yr)	2023 Do Something N- Deposition Rate (kg N/ha/yr)	Change in Rate (kg N/ha/yr)
		X	Y			
E2d	6.2	418290	282034	18.0	18.1	<0.1
E2e	6.2	418285	282036	18.0	18.1	<0.1
E2f	6.2	418264	282050	18.0	18.1	<0.1
E2g	6.2	418243	282063	18.0	18.1	<0.1
E2h	6.2	418222	282077	18.0	18.1	<0.1
E2i	6.2	418201	282090	18.0	18.1	<0.1
E2j	6.2	418180	282104	18.0	18.1	<0.1
E3	6.2	418592	279501	19.5	19.5	<0.1
E4	6.2	418622	279481	19.5	19.5	<0.1
E5a	6.2	419794	285613	32.0	32.0	<0.1
E5b	6.2	419829	285618	31.2	31.2	<0.1
E5c	6.2	419863	285623	31.0	31.0	<0.1
E5d	6.2	419897	285629	31.0	31.0	<0.1
E5e	6.2	419931	285634	30.9	30.9	<0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum N- Deposition Rate (kg N/ha/yr)	2023 Do Something N- Deposition Rate (kg N/ha/yr)	Change in Rate (kg N/ha/yr)
		X	Y			
E5f	6.2	419965	285639	30.9	30.9	<0.1
E5g	6.2	419999	285644	30.9	30.9	<0.1
E5h	6.2	420034	285649	30.9	30.9	<0.1
E5i	6.2	420068	285654	30.9	30.9	<0.1
E5j	6.2	420102	285660	31.1	31.1	<0.1
E6	6.2	418828	281443	18.1	18.1	<0.1
E7	6.2	418604	281584	18.1	18.2	0.1
E8	6.2	418288	281601	18.1	18.1	<0.1
E9	6.2	418533	282346	18.1	18.2	0.1
E10	6.2	419913	283658	19.4	19.3	-0.2
E11	6.2	419875	283648	20.0	20.0	<0.1
E12	6.2	420505	283032	49.5	49.5	<0.1
E13	6.2	420573	283203	49.9	49.9	<0.1
E14	6.2	418455	282153	18.1	18.2	0.1

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum N- Deposition Rate (kg N/ha/yr)	2023 Do Something N- Deposition Rate (kg N/ha/yr)	Change in Rate (kg N/ha/yr)
		X	Y			
E15	6.2	418427	281813	18.1	18.1	<0.1
E16	6.2	418436	281763	18.1	18.1	<0.1
E17	6.2	418560	281483	18.1	18.3	0.2
E18	6.2	418642	281570	18.2	18.2	<0.1
E19	6.2	419066	280603	19.0	18.7	-0.3
E20	6.2	419108	280579	30.3	30.1	-0.2
E21	6.2	418658	283015	19.9	19.8	-0.1
E22	6.2	418777	283186	19.2	19.4	0.2
E23	6.2	419066	280603	19.0	18.7	-0.3
E24	6.2	419261	281253	29.9	29.8	-0.1
E25	6.2	419296	281542	18.3	18.3	<0.1
E26	6.2	419867	283646	19.4	19.4	<0.1
E27	6.2	419911	283658	19.7	19.3	-0.4
E28	6.2	419108	280579	30.3	30.1	-0.2

Receptor ID	Figure [TR010027/APP/6.2]	Coordinates		2023 Do Minimum N- Deposition Rate (kg N/ha/yr)	2023 Do Something N- Deposition Rate (kg N/ha/yr)	Change in Rate (kg N/ha/yr)
		X	Y			
E29	6.2	417648	285535	31.7	31.7	<0.1
E30	6.2	418394	285050	31.9	31.9	<0.1
E31	6.2	416550	282509	29.1	29.1	<0.1
E32	6.2	416800	281565	29.2	29.2	<0.1
E33	6.2	416391	278515	29.5	29.5	<0.1