



## M3 Junction 9 Improvement

Scheme Number: TR010055

### 6.3 Environmental Statement Appendix 5.2 - Human Receptors Backgrounds and Operational Phase Results

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and  
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## Infrastructure Planning

Planning Act 2008

**Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedure) Regulations 2009**M3 Junction 9 Improvement  
Development Consent Order 202[x]**6.3 ENVIRONMENTAL STATEMENT - APPENDIX 5.2: HUMAN  
RECEPTORS BACKGROUNDS AND OPERATIONAL PHASE  
RESULTS**

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## 1 Environmental Statement Appendix 5.2: Human Receptors, Backgrounds and Operational Phase Results

### 1.1 Annual Average NO<sub>2</sub>

1.1.1 **Table 1.1** presents the mapped and adjusted annual average NO<sub>2</sub> background concentrations ( $\mu\text{g}/\text{m}^3$ ) and **Table 1.2** presents the predicted opening year annual mean concentrations of NO<sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) and change at modelled discrete receptor locations.

Table 1.1: Mapped and Adjusted Annual Average NO<sub>2</sub> Background Concentrations ( $\mu\text{g}/\text{m}^3$ )

Receptor	DEFRA 2018 Mapped Background	2015 adjusted and sector removed Background	2015 Modelled Baseline Concentration	DEFRA 2027 Mapped Background	2027 sector removed Background
R01	13.0	10.6	34.5	12.3	7.3
R02	13.0	10.6	40.6	9.2	7.6
R03	13.0	10.6	46.3	9.2	7.6
R04	13.0	10.6	55.4	9.2	7.6
R05	15.1	13.7	28.4	9.2	7.6
R06	15.1	13.7	26.7	11.2	10.1
R07	15.1	13.7	31.3	11.2	10.1
R08	15.1	13.7	39.7	11.2	10.1
R09	15.1	13.7	28.1	11.2	10.1
R10	18.5	11.6	25.4	11.2	10.1
R11	13.7	10.0	20.4	12.2	8.1
R12	13.7	10.0	17.8	9.4	7.2
R13	13.7	10.0	22.5	9.4	7.2
R14	11.2	8.8	16.3	9.4	7.2
R15	9.9	8.8	14.7	7.8	6.3
R16	13.1	9.7	19.1	7.2	6.4
R17	13.8	8.6	16.1	9.3	7.2
R18	18.3	10.6	24.0	9.1	6.0
R19	18.3	10.6	26.2	12.0	7.5
R20	15.1	10.2	27.3	12.0	7.5
R21	20.3	11.0	28.0	10.2	7.4
R22	20.3	11.0	24.2	13.1	7.7
R23	20.3	11.0	31.5	13.1	7.7
R24	19.2	10.9	30.4	13.1	7.7

<b>Receptor</b>	<b>DEFRA 2018 Mapped Background</b>	<b>2015 adjusted and sector removed Background</b>	<b>2015 Modelled Baseline Concentration</b>	<b>DEFRA 2027 Mapped Background</b>	<b>2027 sector removed Background</b>
R25	20.2	11.9	25.7	12.5	7.7
R26	20.2	11.9	29.7	13.3	8.4
R27	17.6	13.0	21.4	13.3	8.4
R28	18.5	11.6	30.5	12.3	9.5
R29	9.0	8.4	16.0	12.2	8.1
R30	9.0	8.4	20.8	6.7	6.2
R31	9.0	8.4	10.6	6.7	6.2
R32	9.0	8.4	16.2	6.7	6.2
R33	11.6	8.5	22.2	6.8	6.2
R34	12.7	12.0	36.7	7.8	6.0
R35	12.7	12.0	38.3	9.5	8.9
R36	11.3	10.4	26.5	9.5	8.9
R37	9.5	8.7	17.3	8.3	7.6
R38	9.9	8.7	16.3	7.0	6.3
R39	15.1	13.7	37.3	7.2	6.3
R40	15.1	13.7	43.7	11.2	10.1
R41	15.1	13.7	33.7	11.2	10.1
R42	9.4	8.3	10.2	11.2	10.1
R43	13.6	10.0	14.0	6.8	6.0
R44	13.6	10.0	13.8	9.4	7.1
R45	13.6	10.0	13.6	9.4	7.1
R46	13.7	10.0	21.1	9.4	7.1
R47	18.5	11.6	21.8	9.4	7.2
R48	18.5	11.6	24.4	12.2	8.1
R49	15.1	13.7	30.8	12.2	8.1
R50	15.1	13.7	41.1	11.2	10.1
R51	15.1	13.7	43.7	11.2	10.1
R52	15.1	13.7	43.5	11.2	10.1
R53	14.5	13.9	40.9	11.2	10.1
R54	20.3	11.0	41.9	10.9	10.2
R55	19.3	12.0	17.5	13.1	7.7

**Table 1.1: Predicted Opening Year Annual Mean Concentrations of NO<sub>2</sub> (µg/m<sup>3</sup>) and change at Modelled Discrete Receptor Locations**

Receptor	2027 DM	2027 DS	Change	Change (as % of NAQO)	2027 DM GAP factored	2027 DS GAP factored	Change	Change (as % of NAQO)
R01	15.6	15.1	-0.5	-1.23%	24.1	23.3	-0.8	-1.89%
R02	17.9	17.3	-0.6	-1.63%	28.3	27.3	-1.0	-2.57%
R03	20.2	19.4	-0.8	-2.00%	32.3	31.1	-1.3	-3.21%
R04	24.0	23.0	-1.1	-2.68%	38.7	37.0	-1.7	-4.31%
R05	15.5	14.7	-0.9	-2.18%	21.0	19.8	-1.2	-2.94%
R06	14.5	15.2	0.7	1.68%	19.0	19.9	0.9	2.20%
R07	16.4	18.0	1.6	3.90%	22.6	24.7	2.1	5.36%
R08	18.7	19.1	0.3	0.85%	28.4	28.9	0.5	1.29%
R09	14.5	14.8	0.2	0.58%	19.8	20.1	0.3	0.78%
R10	12.2	12.1	-0.1	-0.17%	17.4	17.3	-0.1	-0.25%
R11	10.9	10.8	-0.1	-0.18%	15.7	15.6	-0.1	-0.25%
R12	9.9	9.8	-0.2	-0.40%	13.4	13.2	-0.2	-0.54%
R13	11.7	11.6	-0.1	-0.18%	17.5	17.4	-0.1	-0.26%
R14	8.7	8.8	0.1	0.30%	11.9	12.1	0.2	0.41%
R15	8.3	8.4	0.1	0.25%	10.7	10.8	0.1	0.32%
R16	10.2	10.3	0.1	0.27%	13.9	14.1	0.2	0.38%
R17	8.6	8.6	0.1	0.18%	12.0	12.1	0.1	0.25%
R18	11.2	11.2	0.0	0.10%	16.2	16.3	0.1	0.15%
R19	12.0	12.1	0.1	0.20%	17.9	18.1	0.1	0.30%
R20	12.3	12.4	0.1	0.20%	18.8	19.0	0.1	0.31%
R21	12.7	12.8	0.1	0.25%	19.2	19.4	0.2	0.38%
R22	11.5	11.6	0.1	0.18%	16.8	16.9	0.1	0.26%
R23	13.6	13.8	0.1	0.30%	21.4	21.6	0.2	0.47%
R24	13.5	13.6	0.1	0.30%	20.7	20.9	0.2	0.46%
R25	12.6	12.6	0.0	0.10%	17.7	17.8	0.1	0.14%
R26	13.8	13.8	0.1	0.15%	20.4	20.5	0.1	0.22%
R27	11.8	11.8	0.0	0.07%	15.0	15.0	0.0	0.10%
R28	13.7	13.5	-0.2	-0.45%	20.7	20.4	-0.3	-0.68%
R29	10.0	10.3	0.3	0.65%	14.7	15.1	0.4	0.96%
R30	11.1	11.4	0.3	0.85%	16.9	17.4	0.5	1.29%
R31	6.8	6.9	0.1	0.35%	7.5	7.6	0.2	0.39%
R32	8.6	9.0	0.4	1.00%	11.5	12.0	0.5	1.34%
R33	11.2	11.3	0.1	0.27%	17.9	18.1	0.2	0.44%

Receptor	2027 DM	2027 DS	Change	Change (as % of NAQO)	2027 DM GAP factored	2027 DS GAP factored	Change	Change (as % of NAQO)
R34	19.8	17.1	-2.6	-6.60%	29.5	25.5	-3.9	-9.83%
R35	19.4	18.4	-1.0	-2.50%	28.9	27.4	-1.5	-3.73%
R36	12.0	13.1	1.1	2.63%	17.3	18.8	1.5	3.78%
R37	9.5	9.1	-0.4	-0.95%	12.6	12.1	-0.5	-1.25%
R38	9.1	8.8	-0.3	-0.78%	11.8	11.4	-0.4	-1.00%
R39	18.2	17.6	-0.6	-1.55%	26.4	25.5	-0.9	-2.25%
R40	20.6	19.8	-0.8	-1.88%	30.8	29.7	-1.1	-2.81%
R41	17.4	19.2	1.8	4.50%	24.3	26.9	2.5	6.31%
R42	6.7	6.7	0.0	0.02%	7.4	7.4	0.0	0.03%
R43	8.5	8.4	-0.1	-0.35%	10.1	9.9	-0.2	-0.42%
R44	8.4	8.1	-0.3	-0.70%	9.8	9.5	-0.3	-0.82%
R45	8.3	8.1	-0.2	-0.60%	9.7	9.4	-0.3	-0.69%
R46	11.1	11.1	-0.1	-0.23%	16.2	16.1	-0.1	-0.33%
R47	11.0	11.0	0.0	-0.02%	14.9	14.9	0.0	-0.03%
R48	11.7	11.7	0.0	0.00%	16.5	16.5	0.0	0.00%
R49	16.2	17.7	1.5	3.78%	22.1	24.2	2.1	5.15%
R50	19.7	20.9	1.3	3.18%	29.4	31.3	1.9	4.75%
R51	20.1	19.9	-0.2	-0.58%	30.9	30.6	-0.4	-0.88%
R52	20.1	19.7	-0.4	-0.92%	30.7	30.1	-0.6	-1.41%
R53	20.5	19.5	-1.1	-2.63%	30.9	29.3	-1.6	-3.95%
R54	17.0	17.2	0.2	0.50%	27.9	28.2	0.3	0.82%
R55	10.1	10.3	0.1	0.30%	12.3	12.5	0.1	0.37%

## 1.2 Annual Average PM<sub>10</sub>

- 1.2.1 **Table 1.3** presents the background concentrations, predicted opening year annual mean concentrations of PM<sub>10</sub> ( $\mu\text{g}/\text{m}^3$ ) and change at modelled discrete receptor locations.

Table 1.2: Background Concentrations, Predicted Opening Year Annual Mean Concentrations of PM10 ( $\mu\text{g}/\text{m}^3$ ) and change at Modelled Discrete Receptor Locations

Receptor	DEFR A 2018 Mapped Background	2015 Adjusted Background	2015 Concentration	DEFR A 2027 Mapped Background	2027 Adjusted Background	2027 DM	2027 DS	Change	Change (as % of NAQ O)
R01	14.1	14.0	16.3	12.8	12.8	15.5	15.4	-0.2	-0.4%
R02	14.1	14.0	17.4	12.8	12.8	16.5	16.2	-0.2	-0.6%
R03	14.1	14.0	18.4	12.8	12.8	17.3	17.0	-0.3	-0.8%
R04	14.1	14.0	20.4	12.8	12.8	18.9	18.5	-0.4	-1.1%
R05	14.3	14.3	14.9	12.9	12.9	14.6	14.5	-0.1	-0.2%
R06	14.3	14.3	14.7	12.9	12.9	14.4	14.6	0.3	0.7%
R07	14.3	14.3	15.5	12.9	12.9	15.1	15.8	0.6	1.6%
R08	14.3	14.3	16.7	12.9	12.9	16.0	16.2	0.2	0.5%
R09	14.3	14.3	14.8	12.9	12.9	14.4	14.5	0.1	0.3%
R10	16.4	16.3	16.6	15.0	15.0	16.2	16.2	0.0	0.0%
R11	15.0	14.9	15.4	13.7	13.7	14.7	14.7	0.1	0.2%
R12	15.0	14.9	15.0	13.7	13.7	14.4	14.5	0.0	0.1%
R13	15.0	14.9	15.8	13.7	13.7	14.9	14.9	0.1	0.2%
R14	14.0	13.9	13.9	12.7	12.7	13.4	13.5	0.0	0.1%
R15	14.3	14.3	14.0	13.0	13.0	13.6	13.6	0.0	0.1%
R16	15.0	14.9	15.3	13.7	13.7	14.6	14.6	0.0	0.1%
R17	15.5	15.4	15.4	14.2	14.2	14.9	14.9	0.0	0.0%
R18	15.9	15.8	16.1	14.6	14.6	15.6	15.6	0.0	0.0%
R19	15.9	15.8	16.4	14.6	14.6	15.9	15.9	0.0	0.0%

Receptor	DEFR A 2018 Mapped Background	2015 Adjusted Background	2015 Concentration	DEFR A 2027 Mappe d Backg round	2027 Adjusted Backg round	2027 DM	2027 DS	Change	Change (as % of NAQ O)
R20	15.1	15.0	15.8	13.8	13.8	15.1	15.2	0.0	0.0%
R21	16.3	16.2	17.0	14.9	14.9	16.4	16.4	0.0	0.0%
R22	16.3	16.2	16.5	14.9	14.9	16.0	16.0	0.0	0.0%
R23	16.3	16.2	17.4	14.9	14.9	16.6	16.6	0.0	0.1%
R24	15.9	15.8	16.9	14.6	14.6	16.2	16.2	0.0	0.1%
R25	16.2	16.1	16.4	14.9	14.9	16.0	16.0	0.0	0.0%
R26	16.2	16.1	16.8	14.9	14.9	16.2	16.2	0.0	0.0%
R27	16.3	16.3	15.9	14.9	14.9	15.6	15.6	0.0	0.0%
R28	16.4	16.3	17.0	15.0	15.0	16.4	16.4	0.1	0.1%
R29	14.2	14.2	14.7	13.0	13.0	14.9	14.9	0.1	0.2%
R30	14.2	14.2	15.4	13.0	13.0	15.4	15.5	0.1	0.3%
R31	14.2	14.2	13.3	13.0	13.0	13.3	13.3	0.1	0.1%
R32	13.3	13.3	13.4	12.1	12.1	13.3	13.4	0.2	0.4%
R33	15.4	15.3	16.4	14.1	14.1	15.4	15.4	0.0	0.1%
R34	14.0	14.0	16.5	12.7	12.7	15.9	15.7	-0.3	-0.7%
R35	14.0	14.0	16.8	12.7	12.7	16.6	16.2	-0.4	-1.1%
R36	13.7	13.7	14.9	12.5	12.5	14.4	14.5	0.0	0.1%
R37	12.6	12.5	12.8	11.3	11.3	12.7	12.6	-0.2	-0.4%
R38	12.8	12.8	12.9	11.6	11.6	12.8	12.6	-0.1	-0.3%
R39	14.3	14.3	16.5	12.9	12.9	15.8	15.6	-0.2	-0.4%
R40	14.3	14.3	17.6	12.9	12.9	16.7	16.5	-0.2	-0.6%
R41	14.3	14.3	15.9	12.9	12.9	15.5	16.2	0.7	1.8%
R42	14.0	13.9	13.0	12.7	12.7	12.9	12.9	0.0	0.0%
R43	14.3	14.2	13.6	13.0	13.0	13.4	13.3	0.0	-0.1%
R44	14.3	14.2	13.5	13.0	13.0	13.4	13.3	-0.1	-0.3%

Receptor	DEFR A 2018 Mapped Background	2015 Adjusted Background	2015 Concentration	DEFR A 2027 Mappe d Backg round	2027 Adjusted Back ground	2027 DM	2027 DS	Change	Change (as % of NAQ O)
R45	14.3	14.2	13.5	13.0	13.0	13.4	13.3	-0.1	-0.2%
R46	15.0	14.9	15.5	13.7	13.7	14.7	14.8	0.1	0.2%
R47	16.4	16.3	16.0	15.0	15.0	15.7	15.7	0.0	0.0%
R48	16.4	16.3	16.3	15.0	15.0	15.9	15.9	0.0	0.1%
R49	14.3	14.3	15.4	12.9	12.9	15.1	15.7	0.6	1.5%
R50	14.3	14.3	17.0	12.9	12.9	16.4	16.9	0.5	1.3%
R51	14.3	14.3	17.4	12.9	12.9	16.6	16.5	-0.1	-0.2%
R52	14.3	14.3	17.3	12.9	12.9	16.5	16.4	-0.1	-0.3%
R53	14.4	14.4	16.3	13.0	13.0	15.8	15.6	-0.2	-0.5%
R54	16.3	16.2	18.8	14.9	14.9	17.5	17.6	0.0	0.1%
R55	16.2	16.0	15.4	14.8	14.8	15.2	15.4	0.1	0.3%

### 1.3 Annual Average PM<sub>2.5</sub>

- 1.3.1 **Table 1.4** presents the background concentrations, predicted opening year annual mean concentrations of PM<sub>2.5</sub> (calculated from the modelled PM<sub>10</sub> road contribution and PM<sub>2.5</sub> backgrounds and change at modelled discrete receptor locations

Table 1.4: Background Concentrations and Predicted Opening Year Annual Mean Concentrations of PM<sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ ) and change at Modelled Discrete Receptor Locations

Receptor	DEFR A 2018 Mapped Background	2015 Adjusted Background	2015 Concentration	DEFR A 2027 Mapped Background	2027 Adjusted Background	2027 DM	2027 DS	Change	Change (as % of NAQO)
R01	9.5	9.5	13.0	8.5	8.5	11.3	11.1	-0.2	-0.4%
R02	9.5	9.5	14.1	8.5	8.5	12.2	12.0	-0.2	-0.6%
R03	9.5	9.5	15.2	8.5	8.5	13.1	12.8	-0.3	-0.7%
R04	9.5	9.5	17.1	8.5	8.5	14.7	14.2	-0.4	-1.0%
R05	9.9	9.9	11.9	8.9	8.9	10.5	10.4	-0.1	-0.1%
R06	9.9	9.9	11.6	8.9	8.9	10.3	10.6	0.3	0.7%
R07	9.9	9.9	12.4	8.9	8.9	11.0	11.7	0.6	1.6%
R08	9.9	9.9	13.6	8.9	8.9	11.9	12.1	0.2	0.6%
R09	9.9	9.9	11.7	8.9	8.9	10.3	10.4	0.1	0.3%
R10	10.8	10.7	12.4	9.8	9.7	10.9	10.9	0.0	0.1%
R11	9.9	9.8	11.5	8.9	8.8	9.7	9.9	0.2	0.4%
R12	9.9	9.8	11.1	8.9	8.8	9.5	9.6	0.1	0.2%
R13	9.9	9.8	11.9	8.9	8.8	9.9	10.1	0.2	0.5%
R14	9.2	9.1	10.4	8.2	8.2	8.9	8.9	0.1	0.2%
R15	9.2	9.2	10.2	8.2	8.2	8.8	8.8	0.0	0.1%
R16	9.5	9.4	11.0	8.4	8.4	9.3	9.3	0.0	0.1%
R17	9.7	9.6	10.9	8.7	8.7	9.4	9.4	0.0	0.0%
R18	10.4	10.3	11.7	9.3	9.3	10.2	10.3	0.1	0.2%
R19	10.4	10.3	12.0	9.3	9.3	10.5	10.6	0.1	0.2%

Receptor	DEFR A 2018 Mapped Background	2015 Adjusted Background	2015 Concentration	DEFR A 2027 Mapped Background	2027 Adjusted Background	2027 DM	2027 DS	Change	Change (as % of NAQ O)
R20	9.9	9.8	11.8	8.9	8.8	10.1	10.2	0.1	0.2%
R21	10.7	10.5	12.5	9.6	9.6	10.9	11.0	0.1	0.3%
R22	10.7	10.5	12.0	9.6	9.6	10.5	10.6	0.1	0.2%
R23	10.7	10.5	12.9	9.6	9.6	11.1	11.2	0.1	0.3%
R24	10.6	10.5	12.7	9.5	9.5	11.0	11.1	0.1	0.3%
R25	10.9	10.8	12.3	9.9	9.8	10.9	10.9	0.1	0.1%
R26	10.9	10.8	12.8	9.9	9.8	11.2	11.2	0.1	0.2%
R27	11.3	11.2	12.1	10.2	10.2	10.8	10.8	0.0	0.1%
R28	10.8	10.7	12.7	9.8	9.7	11.0	11.1	0.1	0.3%
R29	9.0	8.9	10.2	8.0	8.0	9.2	9.9	0.7	1.7%
R30	9.0	8.9	11.1	8.0	8.0	10.0	10.5	0.5	1.2%
R31	9.0	8.9	9.3	8.0	8.0	8.3	8.3	0.0	0.1%
R32	8.7	8.7	10.0	7.7	7.7	8.9	9.0	0.1	0.4%
R33	9.6	9.6	11.9	8.6	8.6	9.9	9.9	0.0	0.1%
R34	9.7	9.7	13.5	8.7	8.7	12.0	11.7	-0.3	-0.7%
R35	9.7	9.7	13.9	8.7	8.7	12.6	12.2	-0.4	-1.0%
R36	9.3	9.3	11.6	8.3	8.3	10.2	10.3	0.0	0.1%
R37	8.5	8.5	10.0	7.6	7.5	8.9	8.8	-0.2	-0.4%
R38	8.6	8.6	9.9	7.6	7.6	8.8	8.7	-0.1	-0.3%
R39	9.9	9.9	13.4	8.9	8.9	11.7	11.5	-0.2	-0.4%
R40	9.9	9.9	14.6	8.9	8.9	12.6	12.4	-0.2	-0.5%
R41	9.9	9.9	12.8	8.9	8.9	11.4	12.1	0.7	1.9%
R42	8.9	8.9	9.2	7.9	7.9	8.0	8.0	0.0	0.0%
R43	9.5	9.5	10.1	8.5	8.5	8.9	8.9	0.0	0.0%
R44	9.5	9.5	10.1	8.5	8.5	8.9	8.8	-0.1	-0.2%

Receptor	DEFR A 2018 Mapped Background	2015 Adjusted Background	2015 Concentration	DEFR A 2027 Mapped Background	2027 Adjusted Background	2027 DM	2027 DS	Change	Change (as % of NAQ O)
R45	9.5	9.5	10.0	8.5	8.5	8.9	8.8	-0.1	-0.2%
R46	9.9	9.8	11.6	8.9	8.8	9.8	9.9	0.2	0.4%
R47	10.8	10.7	11.7	9.8	9.7	10.4	10.4	0.1	0.1%
R48	10.8	10.7	12.0	9.8	9.7	10.5	10.6	0.1	0.2%
R49	9.9	9.9	12.3	8.9	8.9	11.0	11.6	0.6	1.6%
R50	9.9	9.9	14.0	8.9	8.9	12.2	12.8	0.6	1.5%
R51	9.9	9.9	14.4	8.9	8.9	12.3	12.4	0.1	0.2%
R52	9.9	9.9	14.3	8.9	8.9	12.3	12.3	0.0	0.0%
R53	10.0	9.9	13.3	8.9	8.9	11.6	11.4	-0.2	-0.5%
R54	10.7	10.5	14.3	9.6	9.6	12.0	12.2	0.2	0.5%
R55	10.5	10.4	10.9	9.4	9.4	9.8	9.9	0.2	0.4%