

# **A30 Chiverton to Carland Cross Environmental Statement**

**Volume 6 Document Ref 6.4 ES Appendix 5.6  
Air quality-operational phase impacts**

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**22/08/18**

Planning Act 2008  
Infrastructure Planning (Applications: Prescribed Forms and Procedure)  
Regulations 2009 (as amended)  
APFP Regulation 5(2)(a)



## Table of Contents

	Pages
5 Appendix 5.6 - Operational phase impacts	i
5.6 Ecological Receptor Results	i

### Table of Tables

Table 5-1 Annual mean NO <sub>x</sub> concentrations in 2023	ii
Table 5-2 Annual mean nutrient nitrogen deposition in 2023	v
Table 5-3 A30 Annual mean NO <sub>2</sub> concentrations 2023	vii

## 5 Appendix 5.6 - Operational phase impacts

### 5.6 Ecological Receptor Results

#### Annual mean NO<sub>x</sub> concentrations

- 5.6.1 The modelled annual mean NO<sub>x</sub> concentrations and magnitude of change as a result of the scheme for the assessment year (2023) is shown in Table 5-1. The annual mean NO<sub>x</sub> objective (30µg/m<sup>3</sup>) is exceeded and there is an increase in NO<sub>x</sub> of greater than 0.4µg/m<sup>3</sup> at Breney Common and Goss and Tregoss Moor SAC. The results for nitrogen deposition are provided in Table 5-2.

Table 5-1 Annual mean NO<sub>x</sub> concentrations in 2023

Receptor ID	Site Name	Annual mean NO <sub>x</sub> concentration (µg/m <sup>3</sup> )			Change in NO <sub>x</sub> (µg/m <sup>3</sup> )	Distance from roadside (m)
		Baseline (2016)	2023 DM	2023 DS		
Eco1	River Camel	29.6	22.2	23.0	0.8	10
Eco2	River Camel	13.4	9.2	9.4	0.2	50
Eco3	River Camel	9.9	6.5	6.6	0.1	100
Eco4	River Camel	8.6	5.5	5.6	0.1	150
Eco5	Penhale Dunes	10.4	6.7	6.5	-0.2	10
Eco6	Penhale Dunes	7.1	4.3	4.2	-0.1	50
Eco7	Penhale Dunes	6.4	3.9	3.8	0.0	100
Eco8	Penhale Dunes	6.2	3.7	3.7	0.0	150
Eco9	Fal & Helford	37.0	25.8	24.1	-1.7	10
Eco10	Fal & Helford	19.6	12.8	12.4	-0.5	50
Eco11	Fal & Helford	16.2	10.3	10.0	-0.2	100
Eco12	Fal & Helford	12.1	7.7	7.5	-0.2	150
Eco13	Fal & Helford	28.1	19.6	19.3	-0.3	10
Eco14	Fal & Helford	12.0	7.8	7.7	-0.1	50
Eco15	Fal & Helford	9.2	5.8	5.7	0.0	100
Eco16	Fal & Helford	8.1	5.1	5.0	0.0	150
Eco17	Newlyn Downs	7.2	4.5	4.6	0.1	10
Eco18	Newlyn Downs	6.0	3.7	3.7	0.0	50
Eco19	Newlyn Downs	5.8	3.5	3.5	0.0	100
Eco20	Newlyn Downs	5.7	3.5	3.5	0.0	150
Eco21	Newlyn Downs	6.6	4.1	4.2	0.0	10
Eco22	Newlyn Downs	5.8	3.5	3.5	0.0	50

Receptor ID	Site Name	Annual mean NO <sub>x</sub> concentration (µg/m <sup>3</sup> )			Change in NO <sub>x</sub> (µg/m <sup>3</sup> )	Distance from roadside (m)
		Baseline (2016)	2023 DM	2023 DS		
Eco23	Newlyn Downs	5.6	3.4	3.4	0.0	100
Eco24	Newlyn Downs	5.6	3.4	3.4	0.0	150
Eco25	Newlyn Downs	6.0	3.7	3.7	0.0	10
Eco26	Newlyn Downs	5.7	3.5	3.5	0.0	50
Eco27	Newlyn Downs	5.7	3.5	3.5	0.0	100
Eco28	Newlyn Downs	5.7	3.5	3.5	0.0	150
Eco29	Penhale Dunes	9.0	5.7	5.5	-0.2	20
Eco30	Fal & Helford	21.0	13.9	13.3	-0.6	40
Eco31	Fal & Helford	21.4	14.6	14.4	-0.2	20
Eco32	Newlyn Downs	9.1	6.0	6.2	0.2	150
Eco33	Penhale Dunes	6.4	3.8	3.8	0.0	200
Eco35	Carrick Heaths	7.6	4.8	4.9	0.1	120
Eco36	Penhale Dunes	8.1	5.1	5.0	-0.1	20
Eco37	Penhale Dunes	6.6	4.0	3.9	0.0	80
Eco38	Penhale Dunes	6.3	3.8	3.8	0.0	120
Eco39	Penhale Dunes	6.1	3.7	3.6	0.0	180
Eco40	Fal & Helford	17.1	10.9	10.6	-0.3	80
Eco41	Fal & Helford	15.5	9.8	9.6	-0.2	120
Eco44	Carrick Heaths	7.4	4.7	4.8	0.1	150
Eco45	Fal & Helford	18.9	12.8	12.7	-0.1	20
Eco46	Fal & Helford	13.1	8.6	8.5	-0.1	40
Eco47	Fal & Helford	9.8	6.2	6.2	0.0	80
Eco48	Fal & Helford	8.6	5.4	5.4	0.0	120
Eco49	Fal & Helford	7.8	4.8	4.8	0.0	180
Eco50	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	<b>50.6</b>	<b>39.7</b>	<b>41.1</b>	1.4	0

Receptor ID	Site Name	Annual mean NO <sub>x</sub> concentration (µg/m <sup>3</sup> )			Change in NO <sub>x</sub> (µg/m <sup>3</sup> )	Distance from roadside (m)
		Baseline (2016)	2023 DM	2023 DS		
Eco51	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	28.0	21.1	21.7	0.7	10
Eco52	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	13.7	9.5	9.7	0.2	50
Eco53	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	10.3	6.8	6.9	0.1	100
Eco54	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	<b>48.2</b>	<b>37.5</b>	<b>39.0</b>	1.4	0
Eco55	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	26.4	19.7	20.4	0.6	10
Eco56	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	15.3	10.4	10.6	0.2	50
Eco57	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	12.1	7.9	8.0	0.1	100
Eco58	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	<b>51.2</b>	<b>40.2</b>	<b>41.8</b>	1.6	0
Eco59	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	26.3	19.8	20.4	0.7	10
Eco60	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	12.5	8.7	8.9	0.2	50
Eco61	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	9.4	6.2	6.3	0.1	100
Eco62	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	<b>46.8</b>	<b>36.7</b>	<b>38.0</b>	1.3	0
Eco63	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	25.8	19.4	20.1	0.6	10
Eco64	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	12.8	8.9	9.1	0.2	50
Eco65	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	9.7	6.4	6.5	0.1	100
Eco66	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	7.7	4.9	5.0	0.1	200
Eco67	Breney Common and Goss and Tregoss Moor / Mid Cornwall Moor	8.3	5.3	5.3	0.1	200

Exceedances of the annual mean NO<sub>x</sub> objective (30µg/m<sup>3</sup>) are show in bold.

**Table 5-2 Annual mean nutrient nitrogen deposition in 2023**

Receptor ID	Site name	Critical load	Nitrogen deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> ) in 2023			
			Baseline	2023 DM	2023 DS	Change
Eco50	Breney Common and Goss & Tregoss Moors	10-15	17.4	19.1	19.3	0.13
Eco51	Breney Common and Goss & Tregoss Moors	10-15	17.4	18.2	18.2	0.07
Eco52	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.5	17.5	0.02
Eco53	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.3	17.4	0.01
Eco54	Breney Common and Goss & Tregoss Moors	10-15	17.4	19.0	19.2	0.12
Eco55	Breney Common and Goss & Tregoss Moors	10-15	17.4	18.1	18.2	0.06
Eco56	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.4	17.4	0.02
Eco57	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.2	17.3	0.01
Eco58	Breney Common and Goss & Tregoss Moors	10-15	17.4	19.1	19.3	0.13
Eco59	Breney Common and Goss & Tregoss Moors	10-15	17.4	18.1	18.1	0.06
Eco60	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.4	17.5	0.02
Eco61	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.3	17.3	0.01
Eco62	Breney Common and Goss & Tregoss Moors	10-15	17.4	19.0	19.1	0.12
Eco63	Breney Common and Goss & Tregoss Moors	10-15	17.4	18.1	18.1	0.06
Eco64	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.4	17.5	0.02
Eco65	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.3	17.3	0.01
Eco66	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.2	17.2	0.01
Eco67	Breney Common and Goss & Tregoss Moors	10-15	17.4	17.3	17.3	0.01



## Human Receptor Results

5.6.2 The modelled NO<sub>2</sub> concentrations and magnitude of change are presented in Table 5-3.

Table 5-3 A30 Annual mean NO<sub>2</sub> concentrations 2023

Receptor ID	Grid reference		Reference map page	Base (2016) (µg/m <sup>3</sup> )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM (µg/m <sup>3</sup> )	DS (µg/m <sup>3</sup> )	DM (µg/m <sup>3</sup> )	DS (µg/m <sup>3</sup> )	Magnitude of change (µg/m <sup>3</sup> )
H1	181182	46561	SHEET 11	8.8	6.0	6.9	7.2	8.2	1.0
H2	179222	48717	SHEET 5	6.3	4.2	4.5	5.0	5.3	0.4
H3	181898	44652	SHEET 11	15.3	10.4	9.8	12.5	11.7	-0.8
H4	176735	45061	SHEET 9	10.8	7.5	7.9	9.0	9.4	0.4
H5	182337	44875	SHEET 11	30.2	20.9	18.9	24.9	22.5	-2.4
H6	173448	39926	SHEET 9	7.8	5.1	6.1	6.1	7.3	1.2
H7	182637	44556	SHEET 11	26.5	18.0	17.9	21.5	21.4	-0.1
H8	182092	44836	SHEET 11	29.2	20.4	17.9	24.4	21.3	-3.0
H9	180049	55136	SHEET 2	6.9	4.8	4.6	5.7	5.5	-0.2
H10	185966	45659	SHEET 7	10.4	7.1	7.0	8.4	8.3	-0.1
H11	173164	41472	SHEET 9	9.0	5.9	6.9	7.0	8.2	1.2
H12	193696	48251	SHEET 10	40.5	27.8	26.5	33.2	31.6	-1.6
H13	183896	48225	SHEET 11	17.6	12.3	10.3	14.7	12.3	-2.4
H14	173464	39853	SHEET 9	6.9	4.5	5.0	5.4	6.0	0.6
H15	179199	53263	SHEET 1	4.9	3.4	3.2	4.0	3.8	-0.2
H16	181609	44571	SHEET 11	17.8	12.4	11.4	14.8	13.6	-1.2
H17	175879	44813	SHEET 9	10.9	7.5	7.8	9.0	9.3	0.4
H18	182056	54514	SHEET 3	4.8	3.2	3.3	3.9	3.9	0.0
H19	181782	44219	SHEET 11	27.4	19.9	18.7	23.8	22.3	-1.5
H20	182178	43885	SHEET 11	16.0	12.5	11.8	14.9	14.1	-0.8
H21	182960	45266	SHEET 11	13.0	9.5	8.8	11.3	10.6	-0.8
H22	183276	45843	SHEET 11	15.6	10.9	9.5	13.0	11.3	-1.7
H23	175843	37690	SHEET 6	6.9	4.5	4.9	5.3	5.9	0.5

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H24	185629	45505	SHEET 7	10.6	7.3	7.1	8.7	8.5	-0.2
H26	191131	57388	SHEET 12	13.6	9.5	10.0	11.4	12.0	0.6
H27	183643	45888	SHEET 11	16.9	11.9	11.0	14.2	13.1	-1.1
H28	182858	44720	SHEET 11	36.4	25.2	23.6	30.1	28.1	-2.0
H29	185328	60171	SHEET 2	6.0	4.1	4.0	4.9	4.8	0.0
H30	183153	45742	SHEET 11	13.9	9.8	8.9	11.7	10.6	-1.1
H31	186131	58010	SHEET 2	5.0	3.4	3.5	4.0	4.1	0.1
H33	181478	59554	SHEET 2	6.2	4.3	4.2	5.1	5.0	-0.1
H34	177039	54888	SHEET 1	5.2	3.5	3.4	4.2	4.1	-0.1
H35	181496	52351	SHEET 3	10.3	7.2	7.4	8.6	8.9	0.3
H36	189473	46725	SHEET 10	6.0	4.0	4.0	4.8	4.8	0.0
H37	174981	44395	SHEET 5	30.4	21.1	21.6	25.2	25.8	0.6
H38	181505	45147	SHEET 11	10.6	7.1	7.0	8.5	8.4	-0.1
H39	191053	59879	SHEET 12	7.9	5.4	5.5	6.4	6.5	0.1
H40	182793	45175	SHEET 11	14.8	9.7	9.3	11.6	11.2	-0.4
H41	181513	45066	SHEET 11	11.2	7.5	7.4	9.0	8.8	-0.2
H42	190486	57279	SHEET 12	7.7	5.3	5.5	6.3	6.6	0.3
H43	182124	44779	SHEET 11	23.0	15.9	16.3	18.9	19.5	0.6
H46	181625	45957	SHEET 11	16.6	11.6	14.1	13.9	16.9	3.0
H47	173047	43576	SHEET 4	7.3	4.8	5.4	5.8	6.5	0.7
H49	177502	52587	SHEET 1	9.1	6.3	5.9	7.6	7.1	-0.5
H50	184824	59987	SHEET 2	6.2	4.2	4.3	5.0	5.2	0.1
H51	183319	47580	SHEET 11	9.2	6.3	5.7	7.5	6.8	-0.7
H52	186740	57489	SHEET 12	8.2	5.7	5.9	6.8	7.1	0.3
H53	177109	37092	SHEET 6	16.6	11.4	11.0	13.7	13.1	-0.6
H54	182774	45153	SHEET 11	15.1	9.9	9.5	11.8	11.4	-0.4

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H55	175295	44574	SHEET 5	24.7	17.1	17.5	20.5	20.9	0.5
H56	179823	45007	SHEET 11	24.2	16.1	14.0	19.2	16.7	-2.5
H57	175937	54410	SHEET 1	7.3	5.1	4.8	6.1	5.8	-0.3
H58	193251	48460	SHEET 10	13.0	9.0	8.8	10.7	10.5	-0.3
H59	182229	43817	SHEET 11	17.2	13.3	12.7	15.9	15.1	-0.8
H60	193168	48463	SHEET 10	12.2	8.4	8.2	10.0	9.7	-0.2
H62	190394	47342	SHEET 10	5.8	3.9	3.9	4.6	4.6	0.0
H63	184996	60296	SHEET 2	7.3	5.0	4.9	5.9	5.9	-0.1
H64	177191	52075	SHEET 1	7.0	4.8	4.6	5.7	5.5	-0.2
H65	182260	44891	SHEET 11	27.1	18.7	17.1	22.3	20.5	-1.9
H66	178825	53594	SHEET 1	5.6	3.8	3.7	4.5	4.4	-0.2
H67	174161	46573	SHEET 5	7.8	5.3	5.3	6.3	6.4	0.1
H69	182962	45349	SHEET 11	14.6	9.7	9.4	11.6	11.2	-0.4
H70	178865	53556	SHEET 1	5.4	3.7	3.5	4.4	4.2	-0.2
H71	176786	36720	SHEET 6	9.2	5.9	7.0	7.1	8.4	1.3
H72	179949	54915	SHEET 1	14.1	10.1	9.3	12.0	11.1	-0.9
H73	177029	51878	SHEET 1	7.8	5.4	5.1	6.4	6.1	-0.3
H74	182437	44494	SHEET 11	15.3	10.6	10.3	12.6	12.3	-0.3
H75	183551	45865	SHEET 11	10.6	7.2	7.0	8.6	8.3	-0.3
H76	178730	53700	SHEET 1	9.9	7.0	6.5	8.4	7.7	-0.6
H77	175890	46249	SHEET 5	20.8	26.2	22.2	31.3	26.5	-4.8
H78	175690	53032	SHEET 1	5.7	3.8	3.8	4.5	4.6	0.1
H79	173320	42120	SHEET 9	7.0	4.6	5.0	5.5	6.0	0.5
H80	189606	56705	SHEET 12	9.5	6.6	7.0	7.9	8.4	0.5
H81	188511	56236	SHEET 12	11.8	8.3	8.8	9.9	10.5	0.6
H82	181939	44865	SHEET 11	23.5	16.5	14.0	19.7	16.7	-3.0

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H83	177234	48806	SHEET 5	11.0	7.6	7.6	9.0	9.1	0.0
H84	182838	44135	SHEET 11	17.3	15.3	14.3	18.3	17.0	-1.3
H85	182427	45039	SHEET 11	25.9	17.6	17.0	21.0	20.3	-0.7
H86	172255	44359	SHEET 4	15.8	11.0	12.6	13.1	15.0	1.9
H87	189055	59796	SHEET 12	6.0	4.1	4.1	4.9	4.9	0.0
H88	181391	45012	SHEET 11	12.1	8.1	8.0	9.7	9.5	-0.2
H89	179071	39660	SHEET 6	7.8	5.3	5.2	6.3	6.2	-0.1
H90	181525	52337	SHEET 3	15.1	10.7	9.0	12.8	10.7	-2.0
H92	181863	59816	SHEET 2	9.2	6.5	6.4	7.7	7.6	-0.2
H93	169823	43264	SHEET 4	10.8	7.4	7.6	8.8	9.0	0.2
H94	184380	53282	SHEET 3	5.2	3.5	3.5	4.2	4.2	0.0
H95	176110	37492	SHEET 6	6.6	4.3	4.6	5.1	5.5	0.4
H96	180116	40313	SHEET 6	13.0	8.9	8.6	10.6	10.2	-0.4
H97	193549	48305	SHEET 10	45.2	31.0	29.6	37.0	35.3	-1.7
H98	172833	44234	SHEET 4	13.2	9.2	10.2	11.0	12.1	1.1
H99	174408	46969	SHEET 5	7.5	5.1	5.2	6.1	6.2	0.1
H100	173082	41133	SHEET 9	7.3	4.8	5.2	5.7	6.2	0.5
H101	175482	38616	SHEET 6	6.1	4.0	4.3	4.8	5.1	0.4
H102	173070	41306	SHEET 9	8.5	5.6	6.4	6.7	7.7	1.0
H103	179915	50355	SHEET 3	21.1	14.9	9.7	17.8	11.6	-6.2
H104	181671	43059	SHEET 6	25.3	18.4	17.3	22.0	20.6	-1.4
H106	181239	44748	SHEET 11	15.5	10.5	10.0	12.6	11.9	-0.7
H107	184973	59363	SHEET 2	5.8	4.0	4.1	4.7	4.9	0.1
H108	190919	60724	SHEET 12	6.9	4.7	4.8	5.6	5.7	0.1
H109	182286	44886	SHEET 11	31.1	21.3	19.0	25.4	22.7	-2.7
H110	177808	45082	SHEET 9	19.7	15.3	15.1	18.3	18.0	-0.3

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H111	182312	44867	SHEET 11	33.3	22.8	20.1	27.2	24.0	-3.2
H112	174481	46975	SHEET 5	8.1	5.5	5.6	6.6	6.6	0.1
H113	186242	54661	SHEET 3	7.2	4.9	5.2	5.9	6.2	0.3
H114	180419	57388	SHEET 2	4.6	3.1	3.0	3.6	3.6	0.0
H115	188248	55945	SHEET 12	11.3	7.9	8.5	9.5	10.2	0.7
H116	191162	59896	SHEET 12	7.3	4.9	5.0	5.9	6.0	0.1
H117	176901	45681	SHEET 5	7.0	5.6	5.3	6.7	6.4	-0.4
H118	182089	45348	SHEET 11	20.3	14.1	15.7	16.8	18.8	1.9
H120	182891	44894	SHEET 11	24.5	17.4	17.1	20.7	20.4	-0.3
H121	184115	50347	SHEET 11	10.1	7.0	6.1	8.3	7.3	-1.0
H122	178685	53691	SHEET 1	10.1	7.1	6.6	8.4	7.9	-0.6
H123	190646	57235	SHEET 12	9.7	6.8	7.1	8.1	8.5	0.4
H124	183570	45291	SHEET 11	24.1	16.4	15.9	19.6	19.0	-0.6
H125	188036	46581	SHEET 7	5.6	3.8	3.7	4.5	4.5	0.0
H127	176794	50971	SHEET 5	9.0	6.3	5.9	7.5	7.1	-0.4
H130	181042	44653	SHEET 11	22.9	15.5	13.8	18.5	16.4	-2.1
H131	183335	47204	SHEET 11	14.2	9.8	8.5	11.7	10.1	-1.6
H133	174248	39497	SHEET 9	6.4	4.2	4.5	5.0	5.3	0.4
H134	177713	54478	SHEET 1	7.7	5.4	5.0	6.5	6.0	-0.4
H135	178872	53812	SHEET 1	8.4	5.9	5.6	7.0	6.7	-0.3
H136	175455	38569	SHEET 6	5.9	3.9	4.1	4.6	4.9	0.3
H137	191127	59689	SHEET 12	6.2	4.2	4.2	5.0	5.1	0.1
H138	174532	46953	SHEET 5	9.1	6.2	6.2	7.4	7.4	0.0
H139	173778	44433	SHEET 4	8.1	5.5	5.8	6.6	6.9	0.4
H141	182726	45090	SHEET 11	15.9	10.5	10.2	12.5	12.2	-0.3
H142	181845	52691	SHEET 3	26.7	19.1	7.2	22.8	8.6	-14.2

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H144	193873	48254	SHEET 10	26.5	18.4	17.8	22.0	21.2	-0.8
H145	182669	45028	SHEET 11	19.4	12.7	13.0	15.2	15.5	0.3
H146	184713	60319	SHEET 2	6.7	4.5	4.4	5.4	5.2	-0.2
H147	181695	45322	SHEET 11	14.5	10.1	11.5	12.1	13.8	1.7
H148	181440	52527	SHEET 3	7.9	5.5	6.1	6.6	7.3	0.6
H149	170512	43620	SHEET 4	13.1	8.9	9.1	10.6	10.8	0.2
H150	175709	54180	SHEET 1	6.5	4.3	4.4	5.1	5.2	0.1
H152	193543	48326	SHEET 10	38.8	26.7	25.4	31.8	30.4	-1.5
H153	173419	42448	SHEET 9	7.8	5.1	5.8	6.1	6.9	0.8
H154	180139	50071	SHEET 3	5.3	3.5	3.8	4.2	4.5	0.3
H155	179436	45080	SHEET 11	39.7	19.1	17.1	22.8	20.4	-2.3
H156	175036	46786	SHEET 5	11.2	7.7	7.1	9.2	8.5	-0.7
H157	172213	44314	SHEET 4	13.6	9.4	10.3	11.2	12.2	1.1
H158	179065	39419	SHEET 6	10.5	7.1	6.9	8.5	8.3	-0.3
H159	177122	52068	SHEET 1	8.1	5.6	5.3	6.7	6.4	-0.3
H160	183394	45821	SHEET 11	11.1	7.5	7.3	9.0	8.7	-0.3
H161	172247	44640	SHEET 4	10.4	7.1	7.4	8.5	8.9	0.4
H162	183778	45664	SHEET 11	20.7	14.1	13.7	16.9	16.3	-0.6
H163	185288	59037	SHEET 2	5.4	3.7	3.8	4.4	4.5	0.1
H164	191134	59955	SHEET 12	6.7	4.5	4.6	5.4	5.5	0.1
H165	183230	44757	SHEET 11	16.6	11.8	10.7	14.1	12.8	-1.3
H166	172215	44197	SHEET 4	11.6	7.9	8.7	9.4	10.4	1.0
H167	180395	51670	SHEET 3	4.9	3.3	3.3	4.0	4.0	0.0
H168	177110	36419	SHEET 6	12.0	8.2	8.0	9.8	9.5	-0.3
H169	177166	37998	SHEET 6	16.3	11.2	10.7	13.4	12.8	-0.6
H170	175909	37658	SHEET 6	7.6	4.9	5.6	5.8	6.6	0.8

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H171	180794	50976	SHEET 3	13.3	9.3	9.2	11.1	11.0	-0.1
H172	182112	45352	SHEET 11	15.0	10.3	11.1	12.3	13.2	0.9
H173	183359	46878	SHEET 11	19.8	13.7	11.7	16.4	14.0	-2.4
H174	182326	44986	SHEET 11	28.9	20.0	17.9	23.9	21.3	-2.6
H175	181620	44897	SHEET 11	16.0	11.0	9.6	13.1	11.4	-1.7
H176	182351	59979	SHEET 2	4.7	3.1	3.1	3.7	3.7	0.0
H177	173217	41584	SHEET 9	8.5	5.5	6.3	6.6	7.6	1.0
H178	187943	56603	SHEET 12	5.3	3.5	3.6	4.2	4.3	0.0
H179	175382	49949	SHEET 5	6.6	4.3	4.5	5.2	5.3	0.2
H180	180227	56489	SHEET 2	8.7	6.1	6.0	7.3	7.2	-0.1
H181	185013	45496	SHEET 11	10.7	7.4	7.1	8.8	8.5	-0.4
H182	174189	46612	SHEET 5	8.0	5.4	5.5	6.5	6.5	0.0
H183	181907	44223	SHEET 11	11.8	8.1	7.9	9.7	9.4	-0.3
H184	173103	41364	SHEET 9	8.3	5.4	6.1	6.4	7.3	0.9
H185	181754	52596	SHEET 3	22.8	16.2	7.7	19.4	9.2	-10.2
H186	175842	37891	SHEET 6	7.9	5.1	5.9	6.0	7.0	0.9
H187	181538	44885	SHEET 11	19.5	13.6	11.2	16.2	13.4	-2.8
H188	180834	47836	SHEET 11	7.3	5.1	5.2	6.0	6.2	0.1
H189	182166	44875	SHEET 11	28.5	19.8	19.6	23.6	23.3	-0.3
H190	176842	51047	SHEET 5	14.2	10.1	9.2	12.0	11.0	-1.0
H192	177579	38530	SHEET 6	17.3	12.0	11.4	14.3	13.6	-0.6
H193	182577	45204	SHEET 11	17.5	12.0	11.1	14.3	13.2	-1.1
H194	181681	52206	SHEET 3	6.2	4.2	4.8	5.0	5.7	0.7
H195	171145	43569	SHEET 4	11.0	7.3	7.7	8.8	9.2	0.4
H196	179245	48640	SHEET 5	6.2	4.1	4.5	4.9	5.4	0.4
H197	182980	45683	SHEET 11	13.5	9.2	8.6	11.0	10.3	-0.8



Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H198	183157	45725	SHEET 11	22.4	16.1	13.7	19.2	16.4	-2.8
H199	180195	44924	SHEET 11	21.7	14.7	12.9	17.5	15.4	-2.1
H200	180847	47639	SHEET 11	10.5	7.3	9.0	8.7	10.7	2.1
H201	191042	59822	SHEET 12	6.8	4.6	4.6	5.5	5.5	0.1
H202	183992	48569	SHEET 11	12.1	8.3	7.2	9.9	8.6	-1.3
H203	176312	54249	SHEET 1	6.4	4.4	4.2	5.2	5.0	-0.2
H204	183368	44712	SHEET 11	17.0	12.2	10.9	14.6	13.1	-1.6
H205	187938	56683	SHEET 12	6.0	4.1	4.1	4.8	4.9	0.0
H206	176614	37105	SHEET 6	6.9	4.5	4.9	5.4	5.8	0.5
H207	180518	51194	SHEET 3	6.5	4.7	4.1	5.6	4.9	-0.7
H208	175744	38167	SHEET 6	7.6	4.9	5.7	5.9	6.8	0.9
H209	186366	57805	SHEET 12	8.8	6.1	6.4	7.3	7.7	0.4
H210	173235	41675	SHEET 9	7.9	5.1	5.7	6.1	6.8	0.7
H211	191593	57614	SHEET 12	11.6	8.1	8.5	9.7	10.1	0.5
H212	181745	45416	SHEET 11	13.3	9.2	10.4	11.0	12.4	1.4
H213	186204	54625	SHEET 3	6.8	4.6	4.9	5.5	5.8	0.3
H214	178805	39055	SHEET 6	10.1	6.8	6.6	8.1	7.9	-0.2
H216	186559	56347	SHEET 12	5.1	3.4	3.7	4.1	4.4	0.3
H217	183377	46021	SHEET 11	13.1	9.2	8.0	10.9	9.5	-1.4
H218	171193	43990	SHEET 4	14.0	9.7	9.8	11.6	11.7	0.2
H219	181841	52959	SHEET 3	8.1	5.5	5.3	6.6	6.3	-0.3
H220	183026	45468	SHEET 11	12.8	9.3	8.5	11.1	10.2	-0.9
H221	183408	45805	SHEET 11	11.9	8.0	7.8	9.6	9.3	-0.3
H222	182141	53342	SHEET 3	6.4	4.4	4.3	5.2	5.2	0.0
H223	186198	54731	SHEET 3	11.4	8.0	8.6	9.5	10.3	0.7
H224	179046	49581	SHEET 5	14.6	10.2	6.9	12.2	8.2	-4.0

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H225	178826	53749	SHEET 1	11.4	8.0	7.5	9.6	8.9	-0.6
H226	181618	44525	SHEET 11	17.1	12.3	11.3	14.7	13.5	-1.1
H227	181666	44418	SHEET 11	19.2	15.5	12.9	18.5	15.4	-3.1
H228	182734	60143	SHEET 2	8.0	5.5	5.3	6.5	6.3	-0.2
H229	182948	45152	SHEET 11	14.9	11.6	10.6	13.9	12.6	-1.3
H230	188878	56029	SHEET 12	5.1	3.5	3.5	4.1	4.2	0.1
H231	174290	46652	SHEET 5	11.8	8.2	7.8	9.7	9.3	-0.4
H232	179429	39695	SHEET 6	11.5	7.8	7.6	9.3	9.0	-0.3
H234	180235	40437	SHEET 6	12.0	8.1	7.9	9.7	9.4	-0.3
H235	182966	45203	SHEET 11	13.6	10.2	9.5	12.2	11.3	-0.9
H236	175810	48046	SHEET 5	19.4	13.9	7.0	16.6	8.3	-8.3
H237	191098	62211	SHEET 15	5.1	3.4	3.4	4.0	4.1	0.0
H238	177544	38473	SHEET 6	19.1	13.2	12.6	15.8	15.0	-0.8
H240	174332	46299	SHEET 5	26.1	18.4	19.6	22.0	23.4	1.3
H241	175593	38444	SHEET 6	9.1	5.8	7.0	6.9	8.4	1.5
H242	182682	60148	SHEET 2	8.7	5.9	5.7	7.1	6.8	-0.3
H243	180819	51280	SHEET 3	7.1	4.9	4.9	5.8	5.9	0.0
H244	179451	52984	SHEET 3	4.7	3.3	3.1	3.9	3.7	-0.2
H245	180980	41279	SHEET 6	10.5	7.1	6.9	8.5	8.2	-0.3
H246	182826	44941	SHEET 11	20.6	14.0	14.1	16.7	16.8	0.1
H247	175819	54258	SHEET 1	8.0	5.3	5.5	6.3	6.5	0.2
H248	174658	46635	SHEET 5	18.3	12.9	13.5	15.3	16.1	0.7
H249	186553	56147	SHEET 12	5.3	3.6	3.9	4.3	4.6	0.3
H252	178735	53744	SHEET 1	9.3	6.5	6.1	7.8	7.3	-0.5
H254	185606	58579	SHEET 2	4.6	3.1	3.1	3.7	3.8	0.1
H255	170354	43641	SHEET 4	13.7	9.3	9.5	11.1	11.3	0.2

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H256	175798	37750	SHEET 6	6.2	4.0	4.3	4.8	5.1	0.3
H258	175678	53094	SHEET 1	7.1	4.7	4.8	5.6	5.8	0.2
H259	170326	43814	SHEET 4	15.6	10.7	10.9	12.8	13.0	0.2
H260	173428	42562	SHEET 9	8.1	5.3	6.1	6.3	7.2	0.9
H261	180595	50962	SHEET 3	10.9	7.6	6.9	9.1	8.2	-0.9
H262	178143	45117	SHEET 9	23.2	12.8	11.4	15.2	13.6	-1.6
H264	171316	43633	SHEET 4	9.7	6.5	6.6	7.7	7.9	0.2
H266	179893	50283	SHEET 3	17.4	12.2	10.8	14.5	12.9	-1.6
H267	174851	46834	SHEET 5	16.5	11.7	10.7	13.9	12.8	-1.1
H268	183127	44780	SHEET 11	14.0	9.6	10.0	11.5	12.0	0.5
H269	172614	44899	SHEET 4	20.1	13.7	13.3	16.4	15.9	-0.5
H270	183867	45737	SHEET 11	5.8	3.9	3.9	4.7	4.7	0.0
H271	185189	60237	SHEET 2	6.3	4.3	4.3	5.2	5.2	0.0
H272	180283	56068	SHEET 2	6.4	4.4	4.2	5.2	5.0	-0.2
H273	179030	53624	SHEET 1	13.8	9.5	9.3	11.4	11.1	-0.3
H274	182371	44446	SHEET 11	5.6	3.7	3.8	4.4	4.5	0.1
H275	175499	51351	SHEET 1	26.3	18.2	17.7	21.7	21.2	-0.5
H276	182128	44852	SHEET 11	22.7	15.6	16.0	18.6	19.1	0.5
H277	174841	44375	SHEET 5	17.3	11.4	11.1	13.6	13.2	-0.4
H278	182737	45062	SHEET 11	9.4	6.0	7.3	7.1	8.7	1.5
H279	175821	37741	SHEET 6	13.5	9.2	8.9	11.0	10.6	-0.4
H280	177493	38445	SHEET 6	21.6	15.0	14.3	17.9	17.0	-0.9
H281	182754	44484	SHEET 11	13.6	9.5	9.7	11.3	11.6	0.3
H282	171937	44116	SHEET 4	7.0	4.9	4.6	5.8	5.5	-0.3
H283	178596	53828	SHEET 1	6.0	4.1	4.1	4.9	4.8	0.0
H286	185111	60268	SHEET 2	28.6	19.2	16.5	22.9	19.6	-3.3

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H287	179942	44995	SHEET 11	15.9	10.9	11.1	13.0	13.3	0.2
H288	170193	43646	SHEET 4	6.5	4.4	4.4	5.3	5.3	0.0
H289	185082	60260	SHEET 2	7.3	5.1	4.8	6.0	5.7	-0.3
H290	177854	52951	SHEET 1	4.5	3.0	3.0	3.6	3.6	0.0
H291	188999	59738	SHEET 12	8.0	5.3	5.9	6.3	7.1	0.8
H293	173277	41757	SHEET 9	24.0	16.1	15.5	19.2	18.4	-0.8
H294	183372	45247	SHEET 11	4.9	3.3	3.2	4.0	3.8	-0.1
H295	179175	53311	SHEET 1	15.9	10.5	10.3	12.5	12.3	-0.3
H296	182722	45067	SHEET 11	8.4	5.6	6.9	6.7	8.3	1.6
H297	180614	47905	SHEET 11	11.8	8.1	8.9	9.7	10.6	0.9
H298	172698	44191	SHEET 4	6.4	4.2	4.3	5.0	5.2	0.1
H299	175932	54006	SHEET 1	10.6	7.1	7.3	8.5	8.7	0.2
H300	171874	43915	SHEET 4	19.7	13.6	12.3	16.2	14.7	-1.6
H301	182609	45277	SHEET 11	7.8	5.7	4.5	6.8	5.4	-1.4
H302	181139	51886	SHEET 3	7.5	5.4	4.5	6.5	5.3	-1.1
H303	181123	51870	SHEET 3	5.7	3.8	3.7	4.5	4.5	-0.1
H304	184529	52541	SHEET 3	7.4	5.0	4.8	6.0	5.7	-0.2
H305	183086	60285	SHEET 2	24.0	16.7	18.8	19.9	22.4	2.5
H306	182233	45232	SHEET 11	11.7	8.2	8.7	9.8	10.4	0.6
H307	190568	57132	SHEET 12	30.6	21.1	20.7	25.2	24.6	-0.6
H308	182145	44847	SHEET 11	7.8	5.1	5.8	6.1	6.9	0.8
H309	173416	42565	SHEET 9	28.6	22.3	16.8	26.7	20.1	-6.6
H310	180531	44828	SHEET 11	22.4	12.5	11.2	15.0	13.4	-1.6
H311	178131	45157	SHEET 9	14.6	9.9	9.4	11.8	11.2	-0.7
H312	181971	44678	SHEET 11	14.0	9.2	8.9	11.0	10.7	-0.3
H313	182870	45238	SHEET 11	6.4	4.4	4.5	5.2	5.4	0.2

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H314	184794	59985	SHEET 2	7.4	5.1	5.0	6.0	6.0	-0.1
H316	185320	60160	SHEET 2	7.2	5.0	5.1	5.9	6.1	0.2
H317	190680	57336	SHEET 12	13.7	9.4	10.4	11.2	12.4	1.2
H318	181897	45441	SHEET 11	21.8	21.0	19.3	25.1	23.1	-2.0
H319	182249	43908	SHEET 11	12.8	8.8	9.1	10.5	10.9	0.4
H320	172803	44955	SHEET 4	5.3	3.6	3.5	4.3	4.1	-0.2
H321	178944	53485	SHEET 1	8.0	5.5	5.4	6.5	6.5	-0.1
H322	184927	60303	SHEET 2	16.3	11.2	9.9	13.4	11.8	-1.6
H324	181681	44902	SHEET 11	25.4	17.9	19.0	21.3	22.7	1.3
H325	174224	46052	SHEET 5	21.4	14.6	13.8	17.4	16.5	-0.9
H326	178670	45003	SHEET 9	6.6	4.5	4.7	5.4	5.7	0.3
H327	186021	54532	SHEET 3	12.1	8.6	8.0	10.3	9.6	-0.7
H328	183140	45631	SHEET 11	17.7	12.2	11.0	14.6	13.1	-1.4
H329	182669	45341	SHEET 11	34.4	23.7	24.4	28.3	29.1	0.8
H330	175151	44458	SHEET 5	7.2	5.0	4.7	6.0	5.6	-0.4
H331	181104	51755	SHEET 3	12.2	8.6	7.6	10.2	9.1	-1.1
H332	175271	47493	SHEET 5	19.6	13.4	12.5	16.0	14.9	-1.1
H333	182338	44939	SHEET 11	8.3	5.8	6.1	6.9	7.3	0.4
H335	186188	54685	SHEET 3	12.2	8.3	8.1	9.9	9.7	-0.2
H336	182321	44419	SHEET 11	8.1	5.7	5.3	6.8	6.3	-0.5
H338	177886	54416	SHEET 1	11.6	8.2	7.7	9.8	9.2	-0.6
H339	181482	42373	SHEET 6	16.5	11.3	11.5	13.5	13.7	0.2
H340	170759	43811	SHEET 4	22.5	16.8	15.8	20.1	18.8	-1.3
H341	182170	43947	SHEET 11	6.5	4.4	4.4	5.3	5.3	0.0
H342	175817	46803	SHEET 5	13.9	9.5	9.3	11.3	11.1	-0.2
H343	186651	46264	SHEET 7	10.5	6.9	7.6	8.2	9.0	0.8

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H344	177018	36308	SHEET 6	8.3	5.6	5.8	6.7	6.9	0.2
H345	191210	61691	SHEET 15	11.4	7.8	7.6	9.3	9.1	-0.2
H346	182068	44291	SHEET 11	8.5	5.7	5.8	6.8	7.0	0.2
H347	175668	54122	SHEET 1	5.2	3.5	3.5	4.2	4.2	0.0
H348	187064	57324	SHEET 12	7.2	4.7	5.3	5.6	6.3	0.7
H349	173016	43009	SHEET 4	4.9	3.3	3.3	3.9	3.9	0.0
H350	183679	60217	SHEET 2	12.0	8.4	8.7	10.0	10.4	0.4
H351	188657	56165	SHEET 12	6.0	4.0	3.9	4.8	4.7	-0.1
H352	179338	53482	SHEET 1	7.7	5.6	4.5	6.7	5.3	-1.3
H353	180975	51610	SHEET 3	7.0	4.9	4.6	5.8	5.5	-0.3
H354	178246	54163	SHEET 1	7.2	4.8	5.9	5.7	7.0	1.3
H355	179861	48395	SHEET 5	20.9	14.3	13.7	17.1	16.3	-0.8
H356	182111	44732	SHEET 11	8.5	6.0	6.3	7.1	7.5	0.4
H357	180846	47731	SHEET 11	7.7	5.1	5.2	6.1	6.2	0.2
H358	177000	36276	SHEET 6	6.1	4.2	4.1	5.0	5.0	0.0
H360	185115	60247	SHEET 2	8.4	7.7	7.0	9.2	8.4	-0.8
H361	175950	46150	SHEET 5	29.7	20.4	19.5	24.3	23.3	-1.1
H362	193433	48381	SHEET 10	4.8	3.1	3.1	3.8	3.7	0.0
H363	195453	48982	SHEET 10	8.2	5.6	7.6	6.7	9.1	2.3
H364	181511	52113	SHEET 3	7.1	4.8	6.0	5.8	7.2	1.4
H365	180055	50326	SHEET 3	16.3	11.3	9.5	13.5	11.3	-2.2
H366	175717	46432	SHEET 5	17.9	12.4	11.1	14.8	13.2	-1.6
H367	182744	45450	SHEET 11	6.7	4.6	4.4	5.5	5.2	-0.3
H368	176056	54416	SHEET 1	5.9	4.0	3.9	4.8	4.6	-0.2
H369	178826	53639	SHEET 1	13.8	9.6	10.9	11.4	13.0	1.6
H371	181658	45309	SHEET 11	8.3	5.8	6.0	6.9	7.2	0.3

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H373	184796	59823	SHEET 2	6.6	4.4	4.5	5.2	5.3	0.1
H375	175689	54052	SHEET 1	10.8	7.3	7.1	8.7	8.5	-0.2
H376	177037	36807	SHEET 6	7.0	4.6	4.8	5.5	5.7	0.2
H377	175458	51556	SHEET 1	28.7	20.3	16.9	24.3	20.1	-4.1
H378	180732	44788	SHEET 11	13.4	9.3	10.3	11.1	12.2	1.2
H379	181660	45283	SHEET 11	10.2	6.9	6.7	8.3	8.0	-0.3
H380	183502	45874	SHEET 11	6.8	4.5	4.6	5.4	5.5	0.1
H382	175689	54076	SHEET 1	9.4	6.5	6.8	7.8	8.1	0.3
H383	191788	57916	SHEET 12	11.2	7.9	7.3	9.5	8.7	-0.8
H384	175905	54321	SHEET 1	13.0	9.5	8.8	11.3	10.5	-0.8
H385	175868	46321	SHEET 5	16.9	11.6	11.2	13.8	13.4	-0.5
H386	182640	44752	SHEET 11	7.3	5.0	4.8	5.9	5.7	-0.2
H387	178325	53530	SHEET 1	17.3	12.5	11.1	14.9	13.3	-1.6
H388	183201	45749	SHEET 11	23.8	16.9	15.6	20.1	18.6	-1.5
H389	182837	44350	SHEET 11	13.6	9.6	10.4	11.5	12.5	1.0
H391	187999	55684	SHEET 12	4.5	3.0	3.0	3.6	3.6	0.0
H392	180793	57503	SHEET 2	14.8	10.3	10.5	12.3	12.6	0.3
H393	171788	44128	SHEET 4	7.0	4.6	4.8	5.5	5.7	0.2
H394	175877	54033	SHEET 1	15.4	10.7	11.3	12.7	13.5	0.8
H395	172280	44429	SHEET 4	10.9	7.6	8.3	9.0	9.9	0.9
H396	173724	44421	SHEET 4	8.8	6.1	5.8	7.3	6.9	-0.4
H397	178865	53739	SHEET 1	10.2	7.0	6.2	8.3	7.4	-0.9
H400	183992	48440	SHEET 11	6.7	4.6	4.8	5.5	5.7	0.3
H401	186114	54585	SHEET 3	6.5	4.3	4.4	5.1	5.2	0.1
H402	175937	53889	SHEET 1	11.2	7.8	8.2	9.3	9.8	0.5
H403	192174	58876	SHEET 12	15.4	10.1	9.7	12.0	11.6	-0.5

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H404	182785	45150	SHEET 11	8.5	5.8	5.2	6.9	6.2	-0.7
H405	178917	49553	SHEET 5	10.6	7.1	7.0	8.5	8.4	-0.1
H406	185996	45627	SHEET 7	8.6	6.0	5.7	7.2	6.8	-0.4
H407	178671	53751	SHEET 1	8.0	5.8	4.6	7.0	5.5	-1.4
H408	180803	51329	SHEET 3	12.9	9.2	8.3	11.0	9.9	-1.1
H409	183660	44722	SHEET 11	8.1	5.3	6.1	6.4	7.3	0.9
H410	173139	42923	SHEET 9	15.5	10.7	10.2	12.7	12.2	-0.5
H411	177190	37593	SHEET 6	28.1	19.4	19.1	23.2	22.8	-0.4
H412	182170	44861	SHEET 11	12.0	8.1	8.1	9.6	9.7	0.0
H413	181561	45222	SHEET 11	21.2	14.7	15.0	17.5	17.9	0.4
H414	174857	44359	SHEET 5	28.6	19.4	16.8	23.2	20.1	-3.1
H415	180932	44719	SHEET 11	17.6	12.0	11.8	14.3	14.0	-0.3
H416	186486	46147	SHEET 7	11.1	7.6	8.3	9.0	9.9	0.9
H417	181734	45675	SHEET 11	9.7	10.7	9.4	12.8	11.3	-1.5
H418	176075	46106	SHEET 5	32.8	23.1	22.0	27.6	26.2	-1.4
H419	182989	44877	SHEET 11	10.0	7.0	7.4	8.4	8.8	0.5
H420	188440	56357	SHEET 12	10.1	6.7	7.7	8.0	9.2	1.2
H423	172667	44058	SHEET 4	10.7	7.2	7.0	8.6	8.4	-0.2
H424	179326	39564	SHEET 6	11.9	10.8	10.0	12.8	11.9	-0.9
H425	182445	43921	SHEET 11	13.1	9.0	10.3	10.7	12.3	1.6
H426	172534	44123	SHEET 4	8.1	5.3	6.2	6.3	7.4	1.0
H428	173023	43615	SHEET 4	9.9	6.9	9.7	8.2	11.6	3.4
H429	178432	48708	SHEET 5	13.8	9.7	9.3	11.5	11.1	-0.5
H430	181833	44231	SHEET 11	10.6	7.3	6.7	8.8	8.0	-0.7
H431	175721	46483	SHEET 5	8.0	5.2	5.8	6.2	7.0	0.8
H432	173104	41395	SHEET 9	7.3	5.0	6.1	5.9	7.3	1.4



Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H433	179331	48498	SHEET 5	14.9	10.3	9.7	12.3	11.6	-0.8
H434	183653	45820	SHEET 11	16.3	11.2	11.9	13.3	14.2	0.9
H435	182314	45150	SHEET 11	5.2	3.5	3.6	4.2	4.2	0.1
H436	190943	61090	SHEET 12	7.1	4.7	4.8	5.6	5.7	0.2
H437	175899	53644	SHEET 1	9.0	6.3	6.0	7.6	7.2	-0.4
H438	179239	54083	SHEET 1	7.4	5.1	5.2	6.0	6.2	0.2
H439	184872	60193	SHEET 2	17.2	11.2	10.7	13.3	12.8	-0.5
H440	182755	45131	SHEET 11	7.2	4.7	4.9	5.7	5.8	0.2
H441	175708	54208	SHEET 1	14.7	10.1	9.7	12.1	11.6	-0.5
H442	178080	38781	SHEET 6	10.1	7.0	6.6	8.3	7.9	-0.5
H443	182038	59931	SHEET 2	5.6	3.8	3.7	4.5	4.5	0.0
H444	187113	60208	SHEET 15	10.3	6.9	6.8	8.3	8.2	-0.1
H445	186784	46487	SHEET 7	14.0	9.8	9.5	11.7	11.4	-0.4
H447	183983	44985	SHEET 11	19.1	12.8	12.3	15.3	14.7	-0.6
H448	183304	45114	SHEET 11	10.6	7.5	6.9	8.9	8.3	-0.6
H449	176853	51384	SHEET 1	19.8	13.7	11.1	16.4	13.2	-3.2
H450	175634	46432	SHEET 5	16.1	11.4	6.4	13.7	7.6	-6.1
H451	182391	53015	SHEET 3	5.6	3.8	3.8	4.6	4.5	0.0
H454	180950	53065	SHEET 3	21.2	15.0	18.2	17.9	21.7	3.8
H455	181764	45530	SHEET 11	7.3	4.9	4.7	5.9	5.6	-0.3
H456	179016	49664	SHEET 5	7.8	5.4	5.3	6.4	6.4	-0.1
H457	187647	56885	SHEET 12	7.7	5.2	5.1	6.2	6.1	-0.1
H458	179111	39657	SHEET 6	7.2	4.7	5.1	5.6	6.1	0.5
H459	176792	36684	SHEET 6	18.0	12.6	11.6	15.0	13.9	-1.1
H460	181507	44611	SHEET 11	20.0	13.7	12.7	16.3	15.1	-1.2
H461	182343	44996	SHEET 11	5.0	3.3	3.4	4.0	4.1	0.1

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H462	181026	53286	SHEET 3	13.6	9.3	8.7	11.0	10.3	-0.7
H463	182757	45492	SHEET 11	14.2	9.8	9.0	11.7	10.7	-0.9
H464	182991	45656	SHEET 11	7.0	4.8	5.0	5.7	6.0	0.3
H465	186185	54632	SHEET 3	6.4	4.2	4.6	5.0	5.4	0.5
H468	175830	38061	SHEET 6	15.9	12.2	11.2	14.6	13.3	-1.3
H469	182903	45008	SHEET 11	12.8	8.7	8.3	10.4	9.9	-0.4
H470	181947	44631	SHEET 11	7.7	5.6	4.5	6.7	5.4	-1.3
H471	181100	51814	SHEET 3	6.7	4.5	4.7	5.4	5.6	0.2
H472	175397	47117	SHEET 5	9.8	6.5	6.7	7.8	8.0	0.2
H473	171295	43608	SHEET 4	12.4	8.4	8.5	10.0	10.1	0.1
H474	170047	43451	SHEET 4	28.9	19.9	18.6	23.7	22.1	-1.6
H475	183065	44926	SHEET 11	11.2	7.8	8.2	9.4	9.8	0.5
H476	176644	45060	SHEET 9	5.8	3.9	4.2	4.7	5.1	0.3
H477	181004	53494	SHEET 3	11.2	7.9	7.4	9.4	8.8	-0.6
H478	179352	54131	SHEET 1	13.7	9.7	9.0	11.6	10.7	-0.9
H479	178850	53761	SHEET 1	7.4	5.0	5.1	6.0	6.1	0.1
H480	175989	48776	SHEET 5	6.7	4.3	4.7	5.2	5.7	0.5
H481	173992	39542	SHEET 9	18.9	13.0	12.7	15.5	15.2	-0.3
H482	182523	44594	SHEET 11	5.6	3.8	3.9	4.5	4.6	0.1
H483	188784	56081	SHEET 12	13.2	8.9	8.8	10.6	10.5	-0.1
H484	182207	44429	SHEET 11	5.9	4.0	3.9	4.7	4.7	0.0
H485	176198	49519	SHEET 5	8.8	6.0	7.8	7.1	9.3	2.2
H486	180479	48065	SHEET 11	14.2	9.9	9.6	11.9	11.4	-0.5
H487	182785	44863	SHEET 11	6.4	4.1	4.5	4.9	5.4	0.4
H488	175729	38149	SHEET 6	10.1	6.7	6.9	8.0	8.2	0.2
H489	171269	43640	SHEET 4	6.3	4.3	4.1	5.1	4.9	-0.2

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H490	177617	52736	SHEET 1	16.2	11.4	10.9	13.6	13.0	-0.6
H491	183773	44792	SHEET 11	6.5	4.4	5.9	5.2	7.0	1.8
H492	175065	47817	SHEET 5	13.9	9.1	8.9	10.9	10.6	-0.3
H493	182879	45271	SHEET 11	13.9	9.7	9.3	11.6	11.2	-0.4
H494	182766	44846	SHEET 11	9.3	6.4	6.1	7.6	7.3	-0.3
H495	181102	41467	SHEET 6	10.0	6.8	8.7	8.1	10.4	2.2
H496	180808	47719	SHEET 11	18.8	13.0	11.1	15.5	13.3	-2.2
H497	183409	46647	SHEET 11	11.9	8.3	7.9	9.9	9.5	-0.4
H498	174651	46997	SHEET 5	7.5	4.9	5.5	5.9	6.5	0.6
H499	173273	42852	SHEET 9	11.7	8.1	8.2	9.6	9.8	0.2
H500	169855	43355	SHEET 4	7.5	4.8	5.5	5.8	6.5	0.8
H501	175844	37850	SHEET 6	10.4	7.2	6.9	8.6	8.2	-0.4
H502	181006	41426	SHEET 6	6.6	4.5	4.7	5.4	5.6	0.2
H503	184857	60127	SHEET 2	7.0	4.7	4.7	5.6	5.6	0.0
H504	188533	46677	SHEET 7	13.3	9.4	10.0	11.2	12.0	0.8
H505	190772	57218	SHEET 12	12.1	8.2	8.0	9.8	9.6	-0.2
H507	181312	44889	SHEET 11	14.7	10.2	10.6	12.2	12.6	0.4
H508	172167	44446	SHEET 4	12.2	8.3	8.4	9.9	10.1	0.2
H509	170718	43609	SHEET 4	13.4	9.2	10.0	11.0	11.9	0.9
H510	181967	45426	SHEET 11	17.3	11.9	10.9	14.2	13.0	-1.2
H511	182601	45234	SHEET 11	7.8	5.4	5.3	6.4	6.4	-0.1
H512	188953	59821	SHEET 12	42.6	29.3	27.9	35.0	33.3	-1.7
H513	193636	48276	SHEET 10	6.2	4.3	4.1	5.1	4.9	-0.2
H514	178094	54261	SHEET 1	15.9	11.3	9.4	13.5	11.2	-2.3
H515	183393	46300	SHEET 11	7.9	5.4	6.7	6.4	8.0	1.6
H516	174805	47342	SHEET 5	10.0	6.9	8.1	8.2	9.7	1.5

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H517	180974	46860	SHEET 11	18.9	13.2	13.9	15.7	16.6	0.8
H518	173330	45436	SHEET 5	15.9	11.1	12.9	13.2	15.4	2.2
H519	181787	45636	SHEET 11	20.8	16.9	15.6	20.2	18.7	-1.6
H520	182836	44219	SHEET 11	22.2	15.2	14.7	18.2	17.6	-0.6
H521	182102	44816	SHEET 11	12.0	8.3	9.5	9.9	11.3	1.5
H523	181694	45923	SHEET 11	4.7	3.1	3.1	3.7	3.7	0.0
H524	175470	52168	SHEET 1	13.4	9.5	10.3	11.3	12.3	1.0
H525	186139	54726	SHEET 3	8.1	5.5	5.6	6.6	6.7	0.1
H526	174191	46506	SHEET 5	7.4	4.9	6.2	5.9	7.3	1.4
H527	180103	48229	SHEET 5	32.4	23.2	20.6	27.6	24.6	-3.1
H528	183072	44893	SHEET 11	22.0	14.4	14.7	17.2	17.5	0.3
H530	182711	45024	SHEET 11	23.2	15.9	16.3	19.0	19.5	0.5
H531	174996	44412	SHEET 5	5.4	3.9	4.2	4.6	5.0	0.4
H532	182631	52723	SHEET 3	8.7	5.7	6.7	6.8	8.0	1.2
H533	173099	41136	SHEET 9	8.3	5.8	5.5	7.0	6.6	-0.4
H534	178681	53783	SHEET 1	11.6	8.1	6.1	9.7	7.3	-2.4
H535	183671	53594	SHEET 3	6.2	4.3	4.2	5.1	5.0	-0.1
H536	180963	48914	SHEET 3	40.2	27.6	26.3	33.0	31.4	-1.5
H537	193437	48363	SHEET 10	13.8	9.4	9.3	11.2	11.1	-0.2
H538	187009	46521	SHEET 7	8.9	5.9	6.2	7.1	7.4	0.3
H539	175915	49021	SHEET 5	8.9	5.7	6.8	6.8	8.2	1.3
H540	176164	37490	SHEET 6	11.7	8.1	8.3	9.6	9.9	0.2
H541	169716	43199	SHEET 4	14.4	10.2	11.0	12.2	13.1	1.0
H542	187144	54939	SHEET 12	6.6	4.4	4.5	5.2	5.3	0.1
H543	175911	53886	SHEET 1	9.7	6.9	7.4	8.2	8.8	0.6
H546	180859	47691	SHEET 11	5.9	3.8	4.1	4.6	4.8	0.3

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H548	175619	38469	SHEET 6	17.6	11.9	11.6	14.2	13.8	-0.4
H549	183640	45351	SHEET 11	6.6	4.3	4.8	5.1	5.7	0.6
H551	173439	39907	SHEET 9	15.3	10.4	10.7	12.4	12.7	0.3
H553	174594	44316	SHEET 5	7.4	5.0	4.8	6.0	5.7	-0.3
H555	178964	49623	SHEET 5	10.8	7.4	7.5	8.9	9.0	0.1
H557	169916	43622	SHEET 4	6.9	4.8	5.0	5.7	5.9	0.2
H558	185078	59226	SHEET 2	9.3	5.9	7.2	7.0	8.5	1.5
H559	174275	39465	SHEET 9	5.6	3.8	3.9	4.5	4.6	0.1
H560	190932	60544	SHEET 12	10.5	7.4	7.7	8.9	9.2	0.4
H561	188618	56199	SHEET 12	7.3	5.0	4.8	6.0	5.7	-0.3
H562	184916	54037	SHEET 3	9.7	6.8	5.6	8.1	6.7	-1.4
H563	184810	54010	SHEET 3	11.7	8.1	7.9	9.7	9.4	-0.3
H564	174546	46884	SHEET 5	6.4	4.2	4.3	5.1	5.2	0.1
H566	175908	53822	SHEET 1	14.2	9.7	9.5	11.5	11.4	-0.2
H567	186442	46133	SHEET 7	7.4	4.9	5.3	5.8	6.4	0.6
H568	173329	41955	SHEET 9	24.7	17.0	17.1	20.3	20.5	0.1
H569	182123	44816	SHEET 11	13.7	9.6	12.0	11.5	14.3	2.9
H570	180865	47591	SHEET 11	17.5	12.1	13.2	14.4	15.8	1.4
H571	182148	45317	SHEET 11	7.3	5.0	5.3	6.0	6.3	0.4
H572	186747	57447	SHEET 12	13.8	9.8	8.4	11.8	10.1	-1.7
H573	183351	46103	SHEET 11	15.0	10.3	9.7	12.3	11.6	-0.6
H575	182992	45385	SHEET 11	10.8	7.2	7.4	8.6	8.8	0.3
H577	171380	43731	SHEET 4	6.3	4.3	4.2	5.2	5.0	-0.2
H578	176224	54293	SHEET 1	10.7	7.5	7.1	9.0	8.4	-0.6
H579	178792	53759	SHEET 1	11.2	7.5	7.6	8.9	9.0	0.1
H581	170998	43535	SHEET 4	7.3	5.1	4.8	6.1	5.7	-0.4

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H582	178457	54007	SHEET 1	7.7	6.4	6.0	7.7	7.2	-0.5
H583	177365	45373	SHEET 9	9.0	6.2	5.9	7.4	7.0	-0.4
H584	178469	53592	SHEET 1	23.4	16.2	13.9	19.3	16.6	-2.7
H585	180755	44743	SHEET 11	16.2	11.1	10.2	13.3	12.2	-1.0
H588	181691	44602	SHEET 11	7.1	4.8	5.0	5.8	5.9	0.2
H589	192508	58987	SHEET 12	7.4	5.0	5.0	5.9	6.0	0.1
H590	192726	59616	SHEET 12	10.1	7.1	7.3	8.4	8.7	0.3
H591	193271	59864	SHEET 16	6.0	4.1	4.1	4.8	4.9	0.1
H592	193249	60011	SHEET 16	6.5	4.4	4.5	5.3	5.4	0.1
H593	194098	60386	SHEET 16	9.8	6.8	7.1	8.2	8.5	0.3
H594	194199	60716	SHEET 16	6.3	4.3	4.4	5.1	5.2	0.1
H595	195259	61628	SHEET 16	6.2	4.2	4.3	5.0	5.1	0.1
H596	195205	61619	SHEET 16	6.1	4.1	4.2	4.9	5.0	0.1
H597	195150	61605	SHEET 16	7.2	5.0	5.1	5.9	6.1	0.1
H598	196036	61546	SHEET 16	11.4	8.0	8.3	9.6	9.9	0.4
H599	197991	61545	SHEET 16	7.7	5.3	5.4	6.3	6.4	0.1
H600	198477	61666	SHEET 16	6.8	4.6	4.7	5.5	5.6	0.1
H601	198066	61385	SHEET 16	6.9	4.7	4.8	5.6	5.7	0.1
H602	198733	61605	SHEET 16	6.6	4.5	4.5	5.3	5.4	0.1
H603	198890	61720	SHEET 16	9.1	6.1	6.2	7.3	7.4	0.1
H604	199140	61937	SHEET 16	10.8	7.5	7.8	9.0	9.3	0.3
H605	198900	61858	SHEET 16	6.4	4.3	4.4	5.2	5.3	0.1
H606	199544	62297	SHEET 16	6.0	4.0	4.2	4.8	5.0	0.2
H607	185384	54680	SHEET 3	4.3	2.9	2.9	3.4	3.4	0.0
H608	183749	55159	SHEET 3	4.5	3.0	3.0	3.6	3.6	0.1
H609	184628	55045	SHEET 3	4.2	2.8	2.8	3.3	3.3	0.0

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H610	183186	55964	SHEET 2	4.7	3.1	3.1	3.7	3.7	0.0
H611	182961	56160	SHEET 2	4.7	3.1	3.1	3.7	3.7	0.0
H612	182928	56219	SHEET 2	4.5	3.0	3.0	3.6	3.6	0.0
H613	182929	56183	SHEET 2	4.4	2.9	2.9	3.5	3.5	0.0
H614	182807	56228	SHEET 2	4.9	3.2	3.3	3.8	3.9	0.0
H615	182850	56311	SHEET 2	5.2	3.4	3.5	4.1	4.2	0.1
H616	182743	56337	SHEET 2	4.8	3.2	3.3	3.8	3.9	0.0
H617	182709	56208	SHEET 2	4.7	3.1	3.1	3.7	3.7	0.0
H618	182689	56183	SHEET 2	4.9	3.2	3.3	3.9	3.9	0.1
H619	182686	56244	SHEET 2	4.6	3.0	3.1	3.6	3.7	0.0
H620	182882	56337	SHEET 2	5.0	3.3	3.4	4.0	4.0	0.1
H621	182700	56289	SHEET 2	4.8	3.2	3.3	3.8	3.9	0.0
H622	182733	56023	SHEET 2	4.5	3.0	3.0	3.6	3.6	0.0
H623	182698	55926	SHEET 2	4.3	2.8	2.9	3.4	3.4	0.0
H631	181977	55077	SHEET 2	10.4	7.1	7.2	8.5	8.7	0.1
H632	175100	53719	SHEET 1	9.4	6.4	6.5	7.6	7.8	0.1
H633	175320	53957	SHEET 1	9.1	6.1	6.4	7.3	7.7	0.3
H634	174264	52277	SHEET 1	11.5	7.8	7.9	9.3	9.4	0.1
H635	174107	52031	SHEET 1	14.6	10.0	10.1	11.9	12.1	0.2
H636	173994	51641	SHEET 1	8.8	6.0	6.0	7.1	7.2	0.1
H637	174034	51169	SHEET 1	12.6	8.6	8.7	10.2	10.4	0.1
H638	173897	50963	SHEET 1	9.6	6.4	6.5	7.6	7.7	0.1
H639	169530	42990	SHEET 4	12.1	8.2	8.3	9.8	9.9	0.1
H640	169358	42731	SHEET 4	14.2	9.8	9.9	11.6	11.8	0.1
H641	169434	42349	SHEET 4	13.8	9.4	9.6	11.3	11.4	0.1
H642	167641	42411	SHEET 4	8.2	5.5	5.5	6.5	6.6	0.0

Receptor ID	Grid reference		Reference map page	Base (2016) ( $\mu\text{g}/\text{m}^3$ )	Future projections based on LAQM TG.16 (2023)		Highways England IAN 170 (2023)		
	X	Y			DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	DM ( $\mu\text{g}/\text{m}^3$ )	DS ( $\mu\text{g}/\text{m}^3$ )	Magnitude of change ( $\mu\text{g}/\text{m}^3$ )
H643	167579	42292	SHEET 4	13.1	9.0	9.1	10.7	10.8	0.1
H644	168617	42642	SHEET 4	14.8	10.2	10.3	12.2	12.3	0.2
H645	169031	42844	SHEET 4	13.6	9.3	9.5	11.1	11.3	0.1
H646	169136	42638	SHEET 4	11.8	8.1	8.2	9.7	9.8	0.1
H647	167539	42369	SHEET 4	14.4	9.9	10.0	11.8	11.9	0.2
H648	167490	42260	SHEET 4	12.5	8.5	8.6	10.2	10.3	0.1
H649	167885	42369	SHEET 4	12.5	8.5	8.6	10.1	10.3	0.1

\* No result in the DS as receptor is removed.



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