Ashdown Forest SAC

Air Quality Monitoring and Modelling

Volume 2: Appendices

August 2018



Experts in air quality management & assessment

Document Control

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Appendix 1. Acid Deposition

A1.1. As well as causing eutrophication, nitrogen deposition can also cause acidification. This is the case for both oxidised and reduced nitrogen. Acid deposition is measured in kiloequivalents (keq). The unit eq (a keq is 1,000 eq) refers to molar equivalent of potential acidity resulting from e.g. oxidised and reduced nitrogen, as well as base cations. Thus, 1 keq-N/ha/yr is equal to 14 kg-N/ha/y, and 1 kg-N/ha/yr is equal to 0.071 keq-N/ha/yr.

A1.2. Deposition of sulphur can also contribute towards acidification, and the interaction of nitrogen and sulphur is considered using a 'critical load function'. The function is defined by three quantities CLmaxS, CLmaxN and CLminN. The maximum critical load of sulphur (CLmaxS) is the critical load for acidity expressed in terms of sulphur, i.e. when nitrogen deposition is zero. The maximum critical load of nitrogen (CLmaxN) is the critical load of acidity expressed in terms of nitrogen only (when sulphur deposition is zero). The long-term nitrogen removal processes in the soil (for example, nitrogen uptake and immobilisation) define a "minimum" critical load for nitrogen (CLminN). N deposition inputs below the CLminN will not acidify the system. After CLminN is reached, additional N will contribute towards acidification.

A1.3. The most sensitive parts of heathland habitat in Ashdown Forest have the following acidity critical loads:

- CLminN: 0.499
- CLmaxS: 0.310
- CLmaxN: 0.952

A1.4. As shown in Chapter 9 (Volume 1), the minimum existing nitrogen deposition flux to the SAC is 9.7 kg-N/ha/yr for the EA method and 9.8 kg-N/ha/yr for the AQC method. These values equate to approximately 0.7 keq-N/ha/yr, which is higher than the CLminN value of 0.499 keq/ha/yr. APIS explains that, where deposition is greater than the CLminN, then impacts in relation to both nitrogen and sulphur should be assessed as a percentage of the CLmaxN value, i.e.:

PC as a percentage of the critical load function = ((PC of S+N deposition)/CLmaxN)*100

Where PC is the process contribution from the scheme or schemes being considered.

A1.5. The deposition of sulphur has not been quantified as part of this study. Since the introduction of sulphur-free fuels, sulphur emissions from road traffic have fallen appreciably and, as such, impacts on ambient concentrations caused by traffic-related sulphur dioxide (SO_2) emissions are no longer considered to be a significant concern in the UK. Defra's NAEI predicts that SO_2 emissions from cars in 2016[1] were approximately 0.2% (0.19% for urban roads and motorways, and 0.22% for rural roads) of NOx (on a g/km basis). The equivalent statistic for light goods

[1] The year for which data are available from the NAEI.

vehicles is around 0.1%, while for HGVs and buses it ranges between 0.11% and 0.36%[2]. SO_2 does, however, deposit much more readily than NO_2; for example the Environment Agency (2008) calculated an equivalent deposition velocity for SO_2 which was 33 times higher than that for NO_2.

A1.6. The minimum ratio of road-NO_2 to road-NOx calculated for this study, when expressed as annual averages, was approximately 40%. Using all of this information together a worst-case approximation of the ratio of sulphur from SO_2 deposition to nitrogen from NO_2 deposition can be derived as:

0.36% x 33 x 1/0.4 = 0.3

A1.7. Thus, an upper-bound of the amount that local traffic might be contributing to sulphur deposition can be derived by multiplying the nitrogen contribution by 0.3. In practice, this is likely to overstate the level of sulphur deposition.

A1.8. One kg of sulphur equates to 0.062 keq, thus if the increase in nitrogen deposition due to road traffic is calculated to be 0.1 kg-N/ha/yr (i.e. 1% of the lower-bound critical load for eutrophication), the equivalent acid deposition will be:

0.1 x 0.071 = 0.0071 keq-N/ha/yr +

0.1 x 0.3 x 0.062 = 0.0019 keq-S/ha/yr

= 0.0090 keq/ha/yr

A1.9. 0.0090 keq/ha/yr is marginally less than 1% of the CLmaxN value of 0.952 listed above. What this means is that, taking a worst-case approach to calculating potential local traffic-related sulphur deposition, an increase in traffic volume will exceed 1% of the critical load for eutrophication before it exceeds 1% of the critical load for acid deposition.

A1.10. In the future, NOx emissions per vehicle are expected to fall, but no equivalent falls in SO_2 emissions are predicted. This means that, in emissions models B and C (where NOx emissions per vehicle are predicted to reduce in the future), acid deposition could, relatively speaking, be more significant.

[2] http://naei.defra.gov.uk/data/ef-transport, combined hot exhaust and cold-start, fleet-weighted emissions factors.

Appendix 2. Data Tables

Table A2.1: Monitoring Site Locations

Site Name	Number of NO_2 Tubes	Number of ALPA Samplers	Number of DELTA Samplers	Number of Automatic Monitors	O.S. X	O.S.Y	Distance from nearest road (m)
A1	3	3	1	1	547294	129153	1.7
T1	1	0	0	0	542199	134088	1.54
T2	1	0	0	0	542041	133770	2.1
T3	1	0	0	0	541849	133049	1.6
T4	1	0	0	0	541953	132229	1.7
T5	1	0	0	0	543446	132333	1
T6	1	0	0	0	546890	131049	3.7
T7	1	0	0	0	546656	130347	417
T8	1	0	0	0	547067	131270	240
T9	1	0	0	0	550366	131295	313
T10	1	0	0	0	546533	131670	0.8
T11	1	0	0	0	545640	132411	0.68
T12	1	0	0	0	546362	132915	1.3
T13	1	0	0	0	547085	132595	0.97
T14	1	3	0	0	546990	131906	2.5
T15	1	0	0	0	547401	130703	1.3
T16	1	0	0	0	549374	132561	1.64
T17	1	0	0	0	550417	131629	1.42
T18	1	0	0	0	548941	129100	233
T19	1	0	0	0	549090	128879	2.6
T20	1	0	0	0	548709	128701	1.2
T21	1	0	0	0	548892	128852	1.3
T22	1	0	0	0	549140	128880	2.6
T23	1	0	0	0	547885	128514	3.5
T24	1	0	0	0	546788	127981	4.75
T25	1	0	0	0	546665	127421	1.4
T26	1	0	0	0	546431	127602	258
T27	1	0	0	0	545725	126403	560
T28	1	0	0	0	545028	126584	2.3
T29	1	0	0	0	544600	127196	1.45
T30	1	0	0	0	544703	127716	460
T31	1	0	0	0	544020	129316	2.7

Site Name	Number of NO_2 Tubes	Number of ALPA Samplers	Number of DELTA Samplers	Number of Automatic Monitors	O.S. X	O.S.Y	Distance from nearest road (m)
T32	1	0	0	0	544010	129312	1.22
T33	1	0	0	0	543978	129407	1.3
T34	1	0	0	0	542302	131412	1.7
T35	1	0	0	0	542861	130963	2.9
T36	1	0	0	0	543617	130337	2
T37	1	0	0	0	543887	129685	1.18
T38	1	0	0	0	545412	128806	0.97
T39	1	0	0	0	545227	128224	560
T40	1	0	0	0	546248	128652	1.76
T41	1	0	1	0	546282	129073	390
T42	1	0	0	0	547353	129600	1.4
T43	1	0	0	0	547781	129949	453
T44	1	0	0	0	542621	128998	1.36
T45	1	0	0	0	543060	129198	264
T46	1	0	1	0	542172	130399	660
T47	1	0	0	0	541418	130304	0.9
T48	1	0	0	0	541856	131411	1.35
T49	1	0	0	0	541722	131040	2.34
T50	1	0	0	0	540420	131968	328
T51	1	0	0	0	541345	131995	1.03
T52	1	0	0	0	540141	132590	1.3
T53	1	0	0	0	541312	134027	1.45
T54	1	0	0	0	540530	133087	0.85
T55	1	0	0	0	543133	134119	215
T56	1	0	0	0	544299	134305	1.2
T57	1	0	0	0	544417	133250	356
T58	1	0	0	0	544902	133078	1.5
T59	1	3	0	0	545642	128828	2
T60	1	0	0	0	546859	129170	360
T61	1	3	0	0	546952	128775	2.8
T62	1	3	0	0	546790	128069	2.4
T63	1	0	0	0	546622	128052	166
T64	1	0	0	0	548211	128727	211
T65	1	3	0	0	548189	128518	1.4
T66	1	0	0	0	547347	129311	1.6
T67	1	3	0	0	547290	130126	1.8

Site Name	Number of NO_2 Tubes	Number of ALPA Samplers	Number of DELTA Samplers	Number of Automatic Monitors	O.S. X	O.S.Y	Distance from nearest road (m)
T68	1	3	0	0	544027	132499	2.1
T69	1	3	0	0	546898	132594	181
T70	0	3	0	0	543914	132693	226
T71	1	0	1	0	547438	128711	5.5
Transects							
R1.1	1	3	0	0	543931	129549	1.7
R1.2	1	3	0	0	543930	129549	2.5
R1.3	1	3	1	0	543928	129548	5
R1.4	1	3	0	0	543923	129547	10
R1.5	1	3	0	0	543911	129543	22
R1.6	1	0	0	0	543885	129535	50
R1.7	1	3	0	0	543837	129519	100
R1.8	1	0	0	0	543743	129489	200
R2.1	1	3	0	0	543960	129493	1.7
R2.2	1	3	0	0	543961	129494	2.5
R2.3	1	3	0	0	543963	129494	5
R2.4	1	3	0	0	543968	129496	10
R2.5	1	3	0	0	543980	129500	22
R2.6	1	0	0	0	544006	129508	50
R2.7	1	3	0	0	544052	129522	100
R2.8	1	0	0	0	544196	129429	206
R3.1	1	3	0	0	547368	129373	1
R3.2	1	3	0	0	547370	129373	2.5
R3.3	1	3	0	0	547373	129373	6
R3.4	1	3	0	0	547377	129373	10
R3.5	1	3	0	0	547390	129373	23
R3.6	1	0	0	0	547419	129401	51
R3.7	1	3	0	0	547470	129413	100
R3.8	1	0	0	0	547569	129389	200
R4.1	1	0	0	0	548786	128796	2
R4.2	1	0	0	0	548786	128797	3
R4.3	1	3	1	0	548785	128799	5
R4.4	1	0	0	0	548782	128803	10
R4.5	1	0	0	0	548775	128813	22
R4.6	1	0	0	0	548760	128836	50
R4.7	1	0	0	0	548735	128872	96

Table A2.2: Traffic Flows for Roads outside the SAC

Link	Base Year		Assumed Traffic Growth from Base Year to 2028 (AADT)			
			Without Local Plan		With Local Plan	
	AADT	%HDV	LDV	HDV	LDV	HDV
138	1,839	2.8	529	5	560	5
139	4,360	4.5	670	17	803	17
140	5,250	3.0	858	23	1,269	23
141	10,380	4.1	2,426	61	3,630	61
142	11,600	4.6	1,993	83	3,824	83
143	12,042	6.7	1,621	78	3,171	78
144	5,100	2.5	549	9	838	9
145	12,042	6.7	1,621	78	3,171	78
146	3,221	4.1	869	16	1,034	16
147	12,042	6.7	2,135	61	3,774	61
148	5,078	2.7	549	9	838	9
149	16,398	4.8	2,461	104	3,751	104
150	20,030	5.4	3,959	177	7,208	177
151	22,990	5.3	4,303	188	8,916	188
152	10,870	3.8	1,899	58	3,591	58
153	6,600	3.4	1,543	39	2,600	39
154	9,910	3.4	2,112	53	3,491	53
155	15,010	3.6	2,487	74	4,951	74
156	16,398	4.8	2,853	81	4,123	81
157	16,398	4.8	2,263	62	3,133	62
158	16,398	4.8	1,614	36	2,071	36
159	7,960	1.7	366	6	535	6
160	1,000	3.0	0	0	0	0
161	5,280	1.2	198	2	251	2
162	7,680	1.5	404	4	500	4
163	18,550	4.1	3,321	96	4,423	96
164	2,880	2.0	206	3	249	3
165	5,220	2.8	1,045	20	1,334	20
166	6,270	2.2	1,279	14	1,422	14

Link	Base Year		Assumed Traffic Growth from Base Year to 2028 (AADT)			
			Without Local Plan		With Local Plan	
	AADT	%HDV	LDV	HDV	LDV	HDV
167	5,810	2.9	782	12	977	12
168	5,890	2.3	1,262	17	1,443	17
169	2,880	2.0	206	3	249	3
170	10,228	6.7	2,089	62	3,690	62
171	1,820	1.0	38	0	39	0
172	810	50.0	30	22	48	22
173	6,640	1.8	431	14	482	14
174	14,032	6.8	2,089	62	3,690	62
175	1,520	1.3	352	4	582	4
176	1,839	2.8	529	5	560	5
177	2,880	2.0	206	3	249	3
178	3,530	2.9	932	18	1,034	18
179	5,650	2.5	1,015	15	1,263	15
180	1,444	3.1	474	7	648	7
181	2,104	2.6	50	1	72	1
182	4,602	6.7	1,010	6	1,088	6
183	1,000	3.0	0	0	0	0
184	1,000	3.0	0	0	0	0
185	11,600	4.6	1,993	83	3,824	83
186	11,010	5.5	2,461	104	3,751	104

Appendix 3. Maps of Monitor Locations

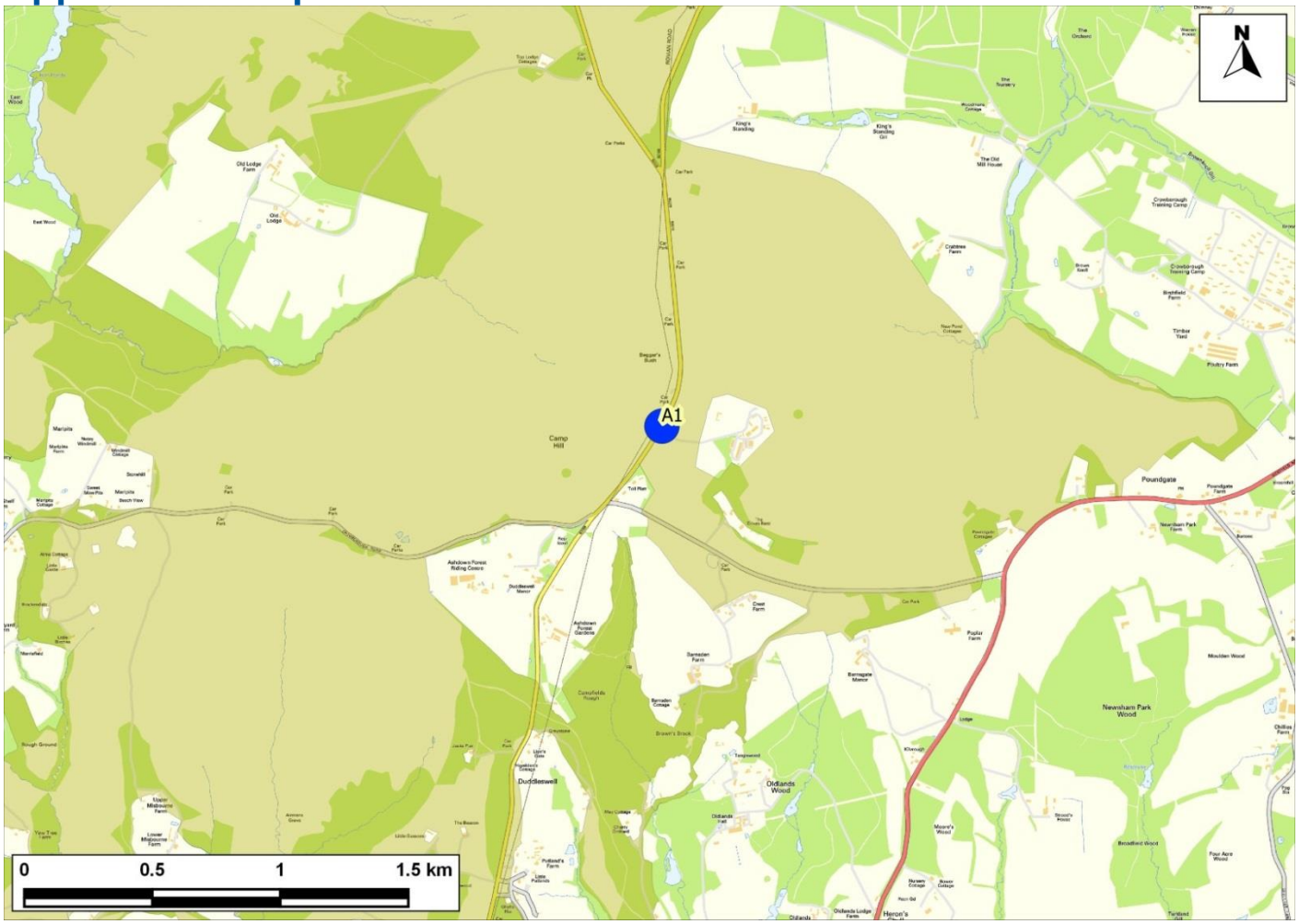


Figure A3.1: Location of Automatic Monitor

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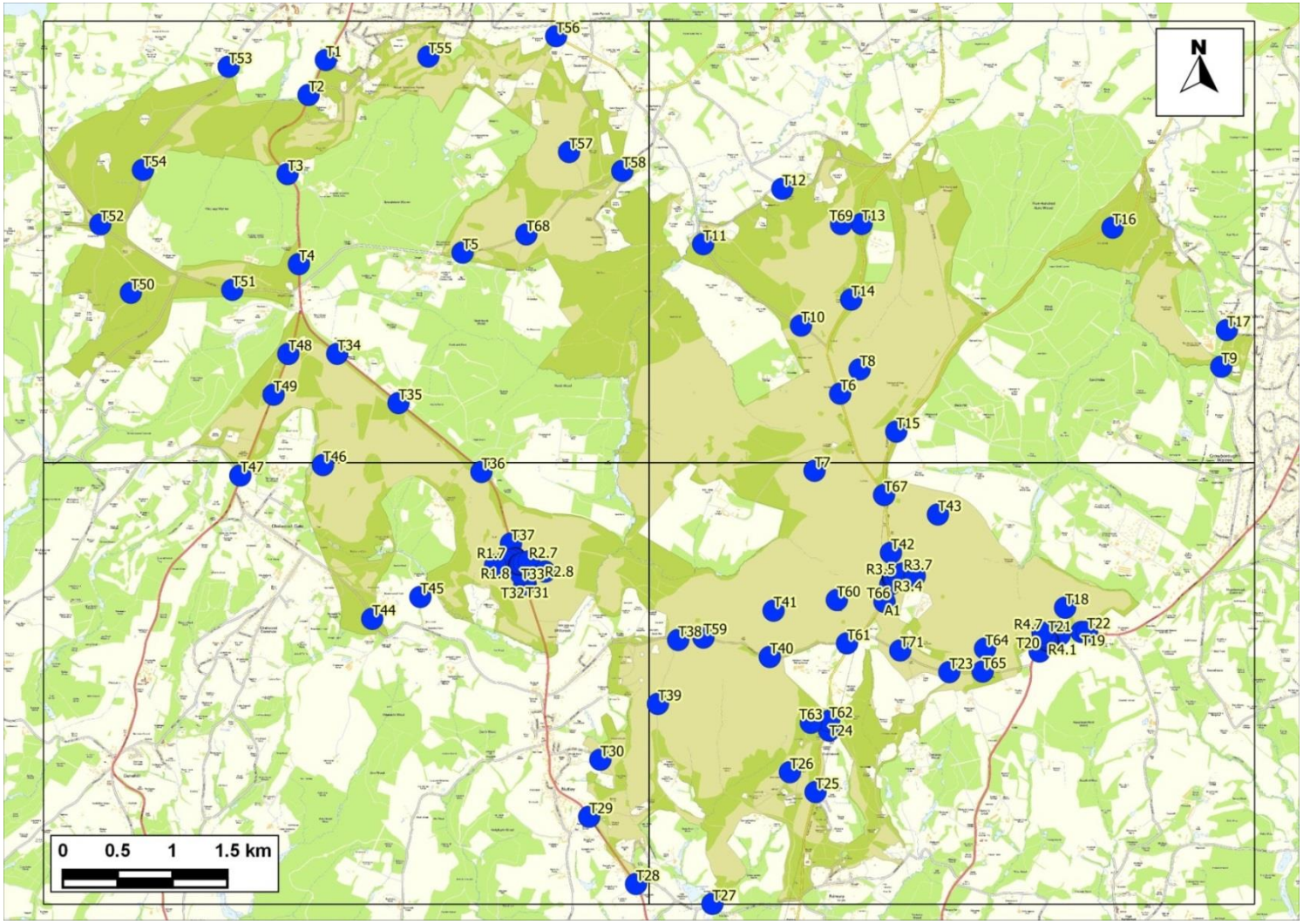


Figure A3.2: All Diffusion Tube Sites (Also showing four quadrants used for the following more detailed maps)

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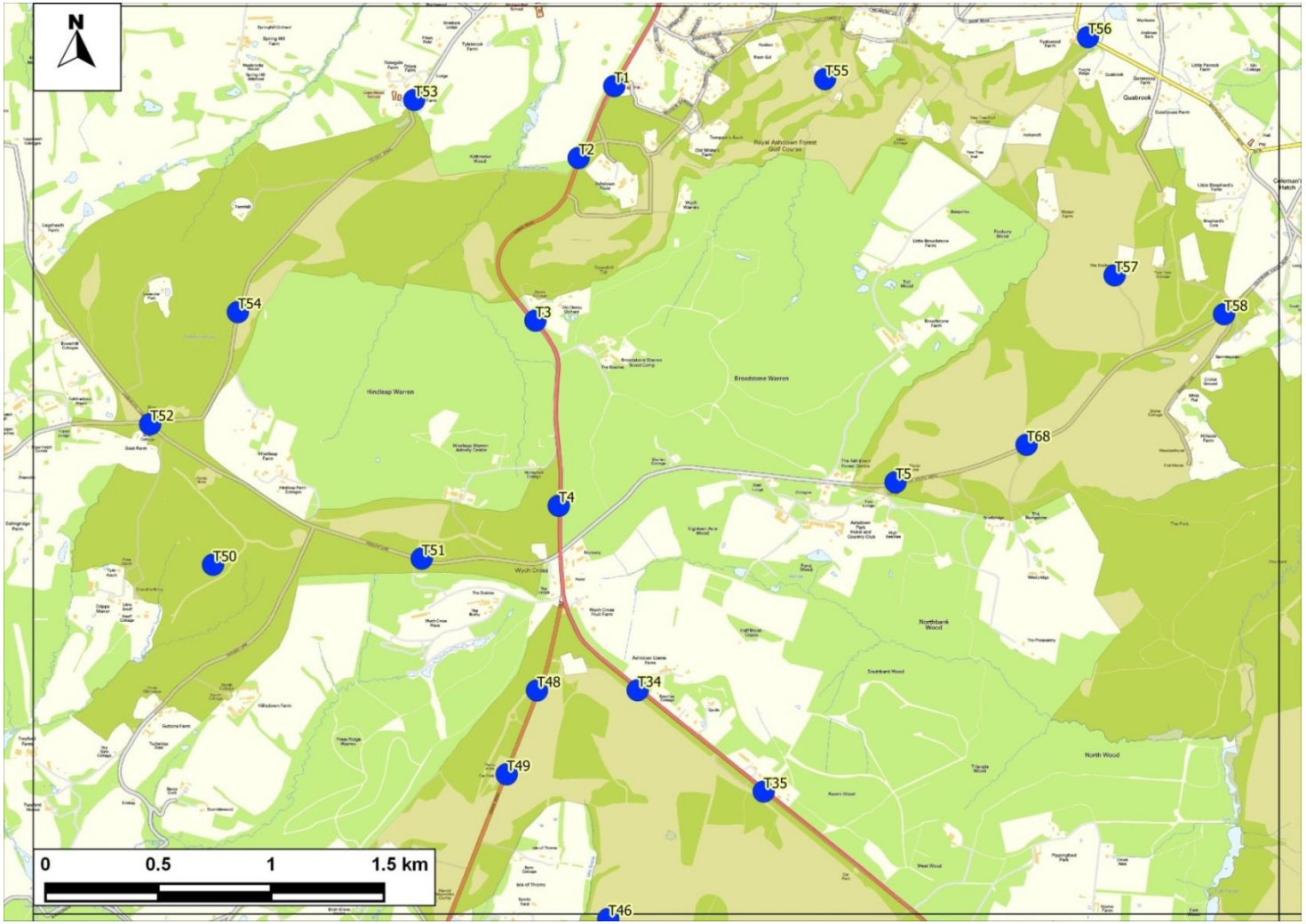


Figure A3.3: Diffusion Tube Sites in Northwest Section of Study Area

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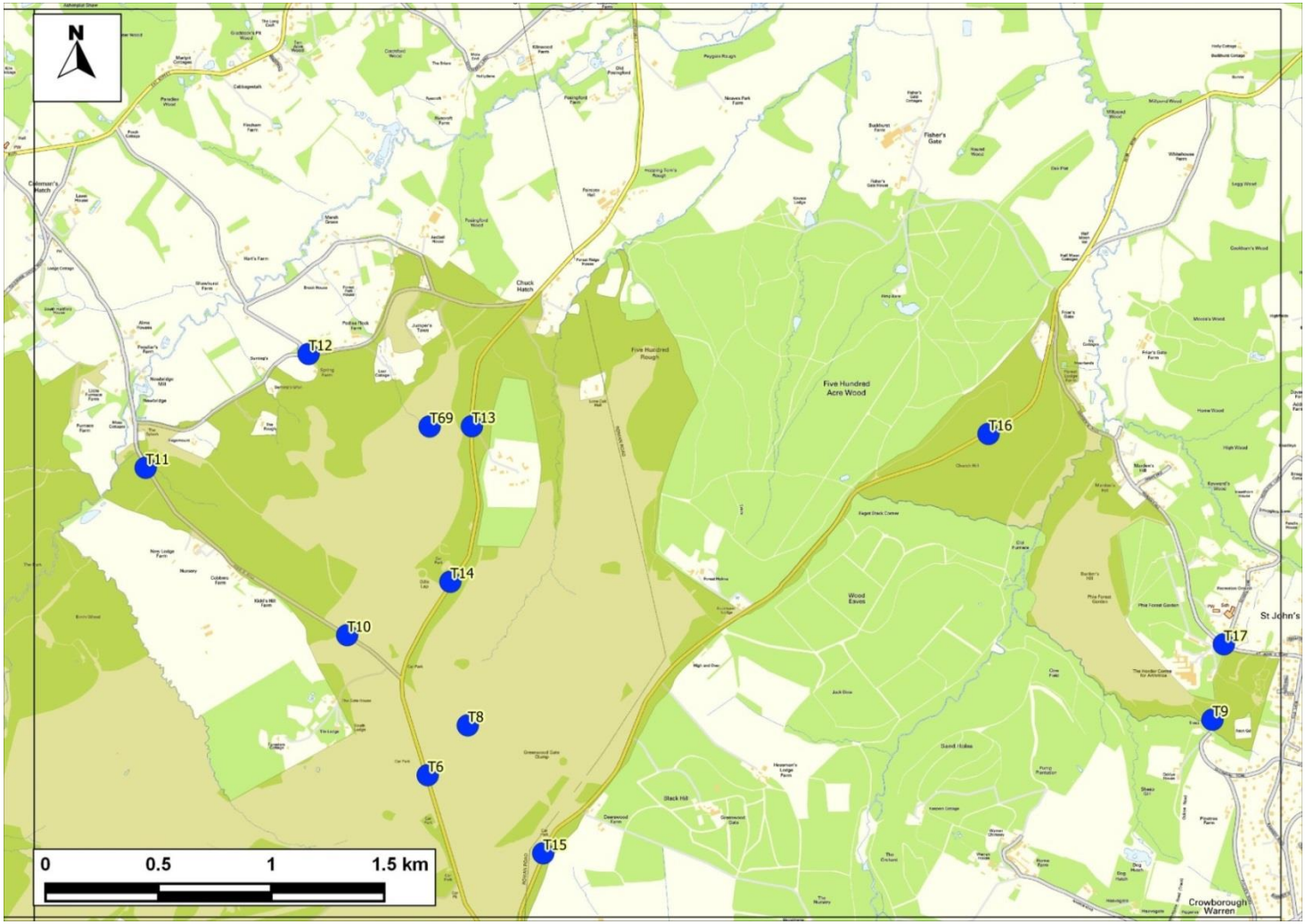


Figure A3.4: Diffusion Tube Sites in Northeast Section of Study Area

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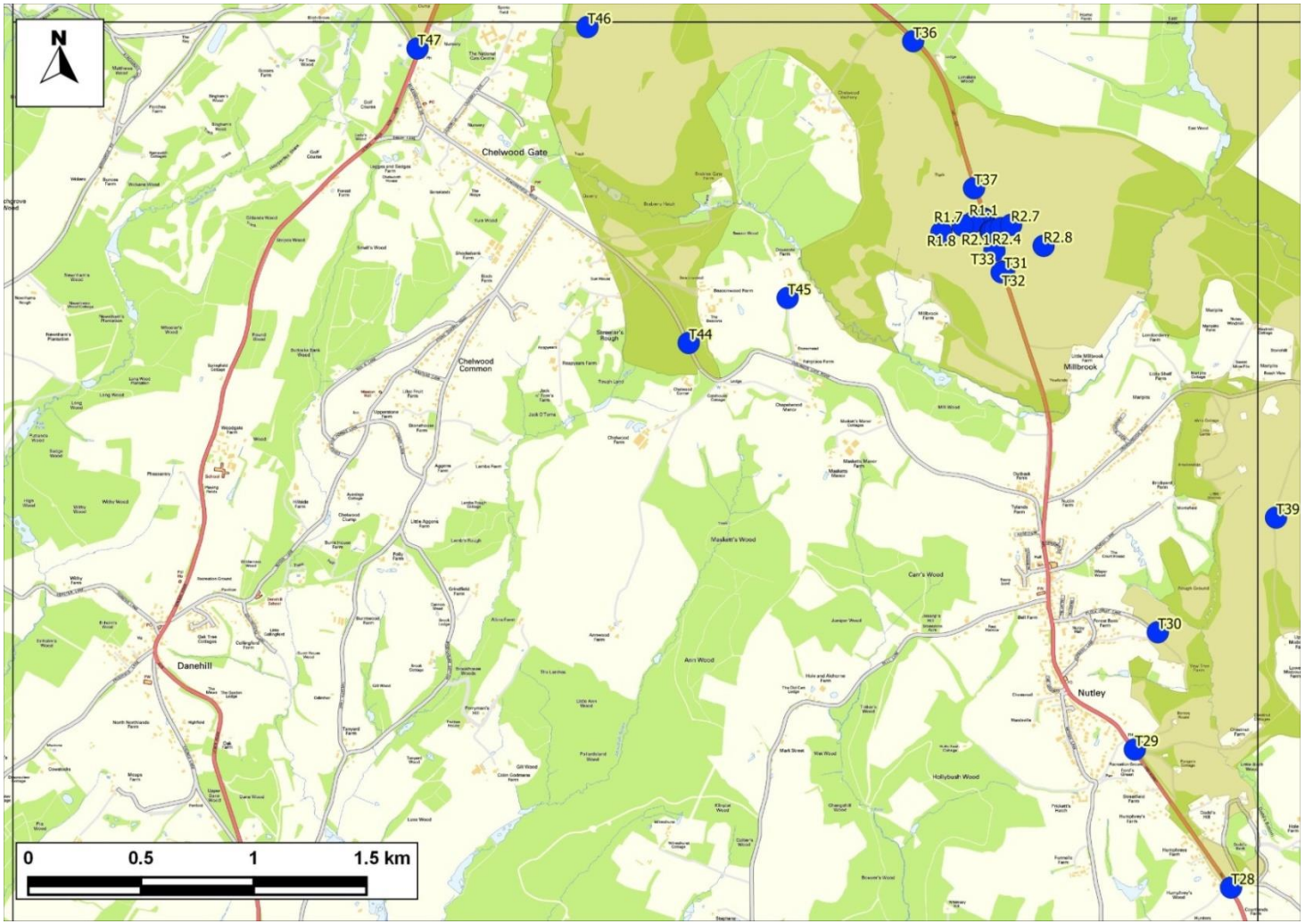


Figure A3.5: Diffusion Tube Sites in Southwest Section of Study Area

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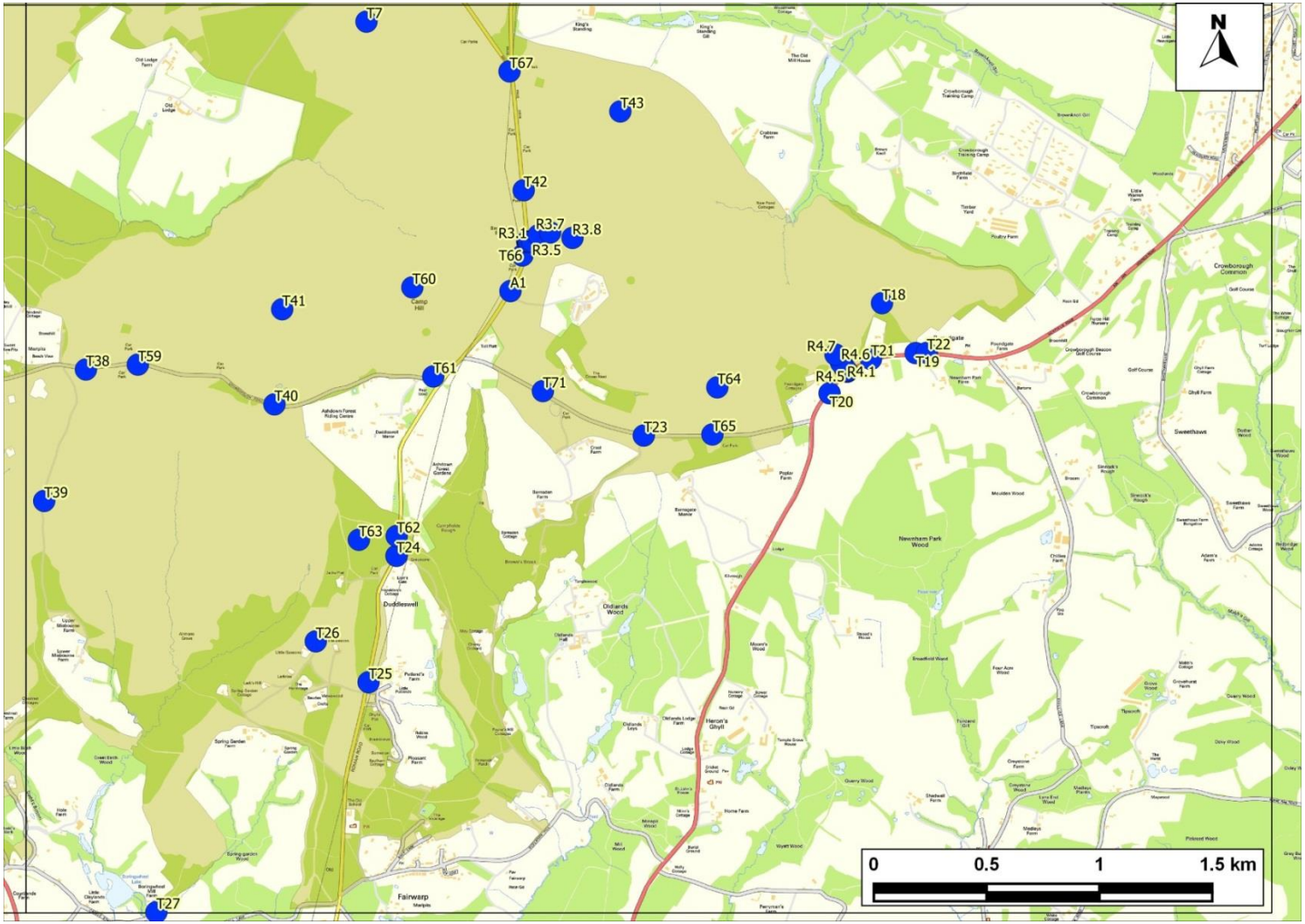


Figure A3.6: Diffusion Tube Sites in Southeast Section of Study Area

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Figure A3.7: Monitoring Transects

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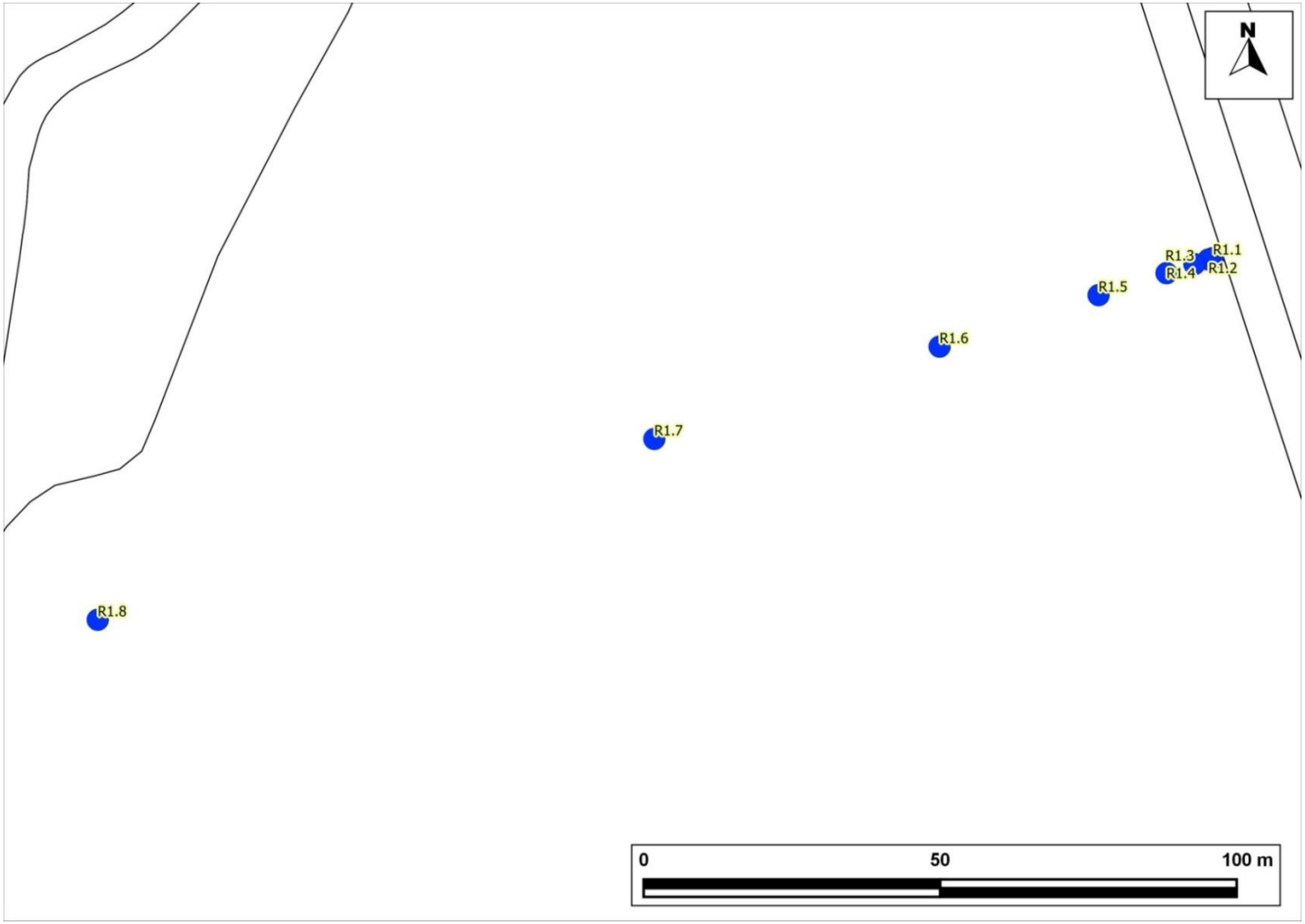


Figure A3.8: Transect 1 (Sites R1.1 to R1.8)

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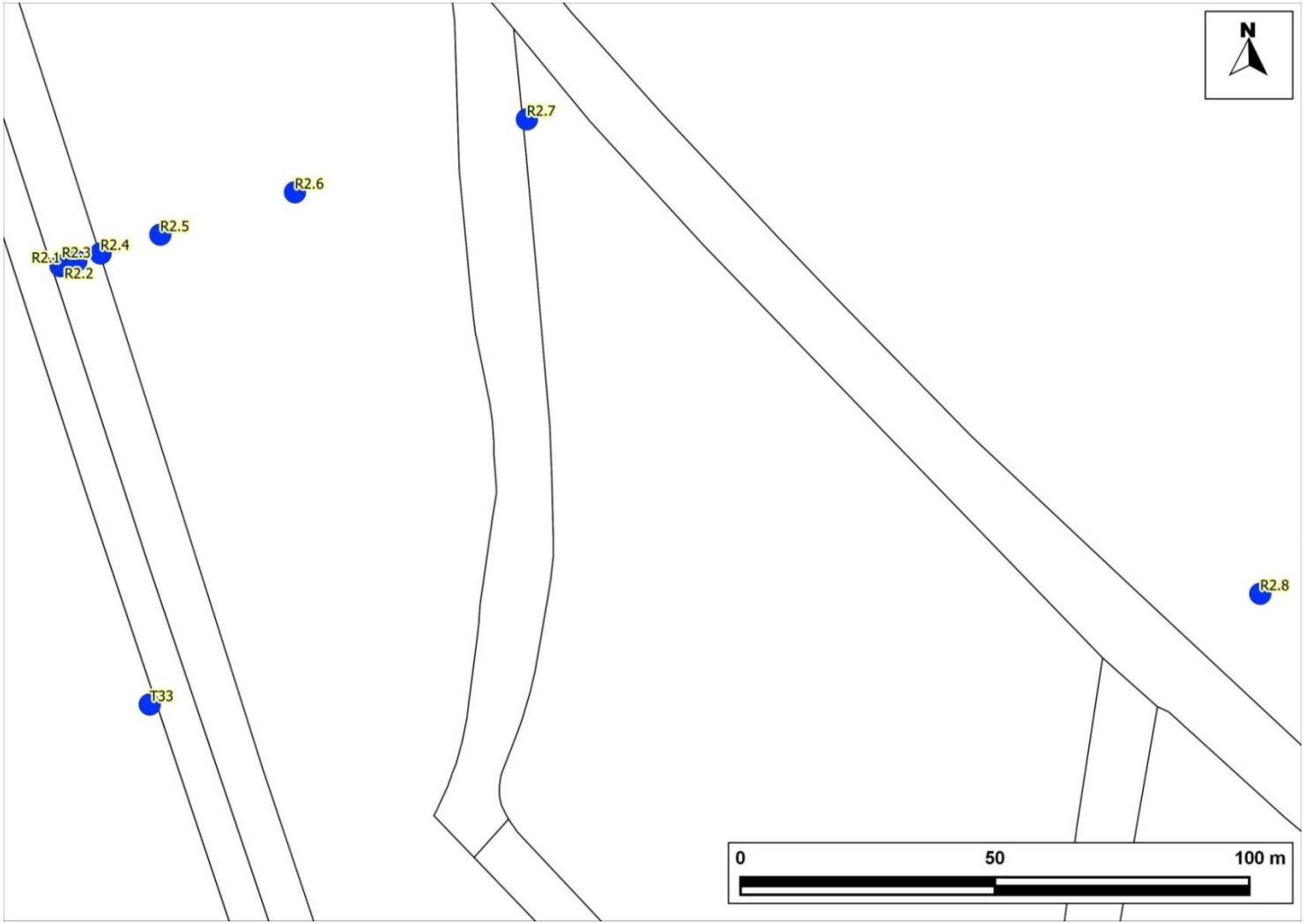


Figure A3.9: Transect 2 (Sites R2.1 to R2.8)

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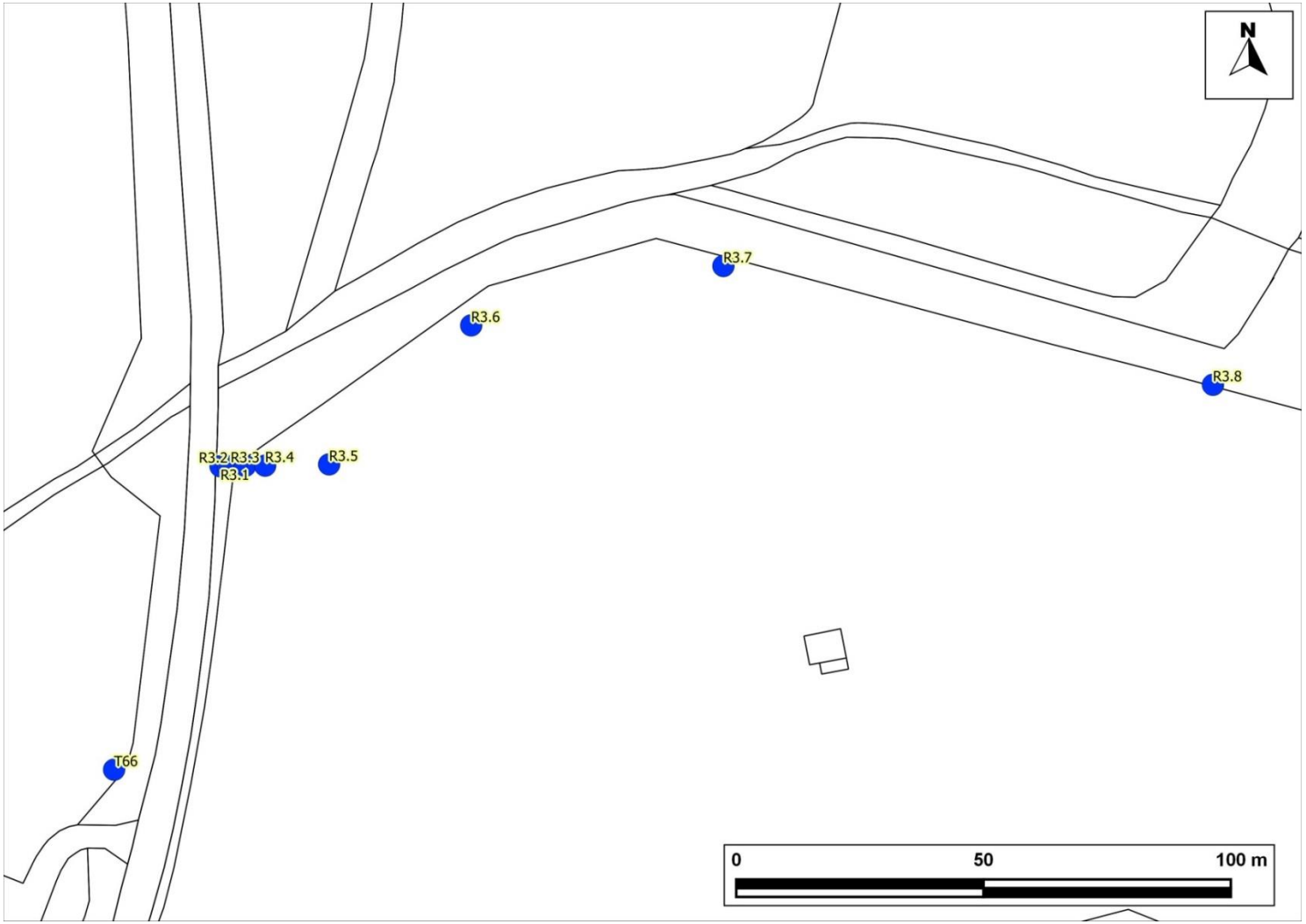


Figure A3.10: Transect 3 (Sites R3.1 to R3.8)

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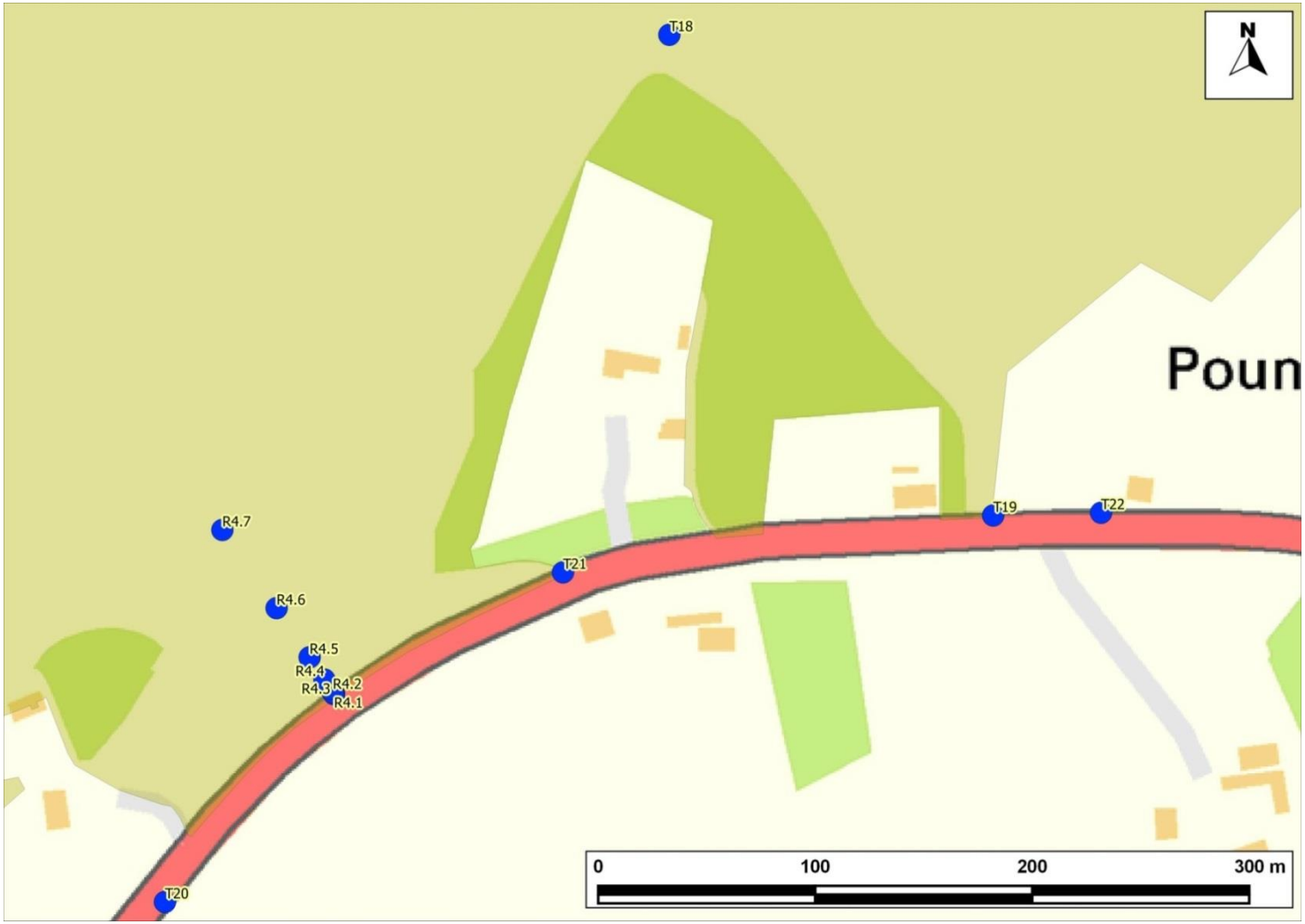


Figure A3.11: Transect 1 (Sites R4.1 to R4.7 – Also incorporating Site T18 for local background)

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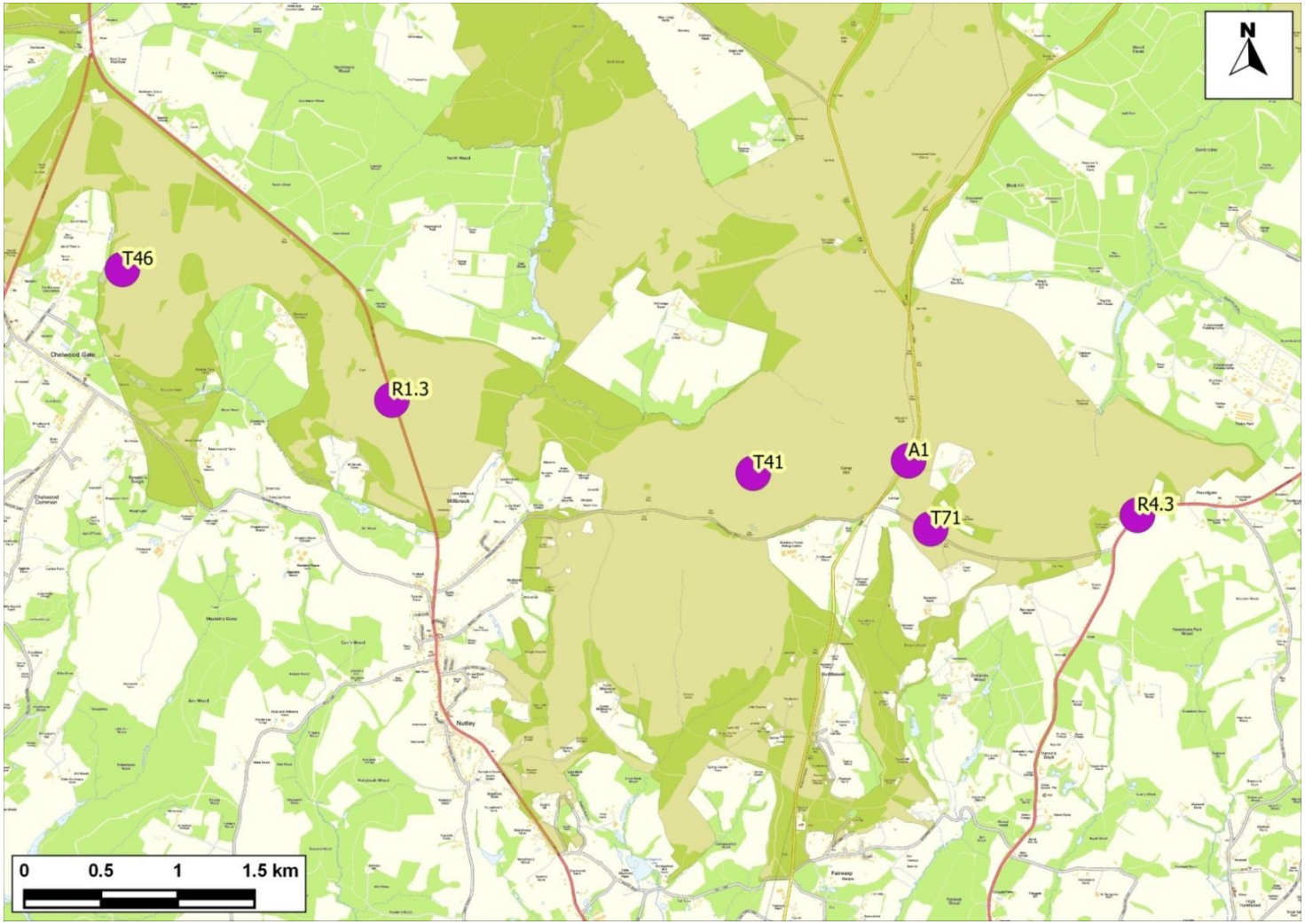


Figure A3.12: Locations of DELTA Monitoring Sites

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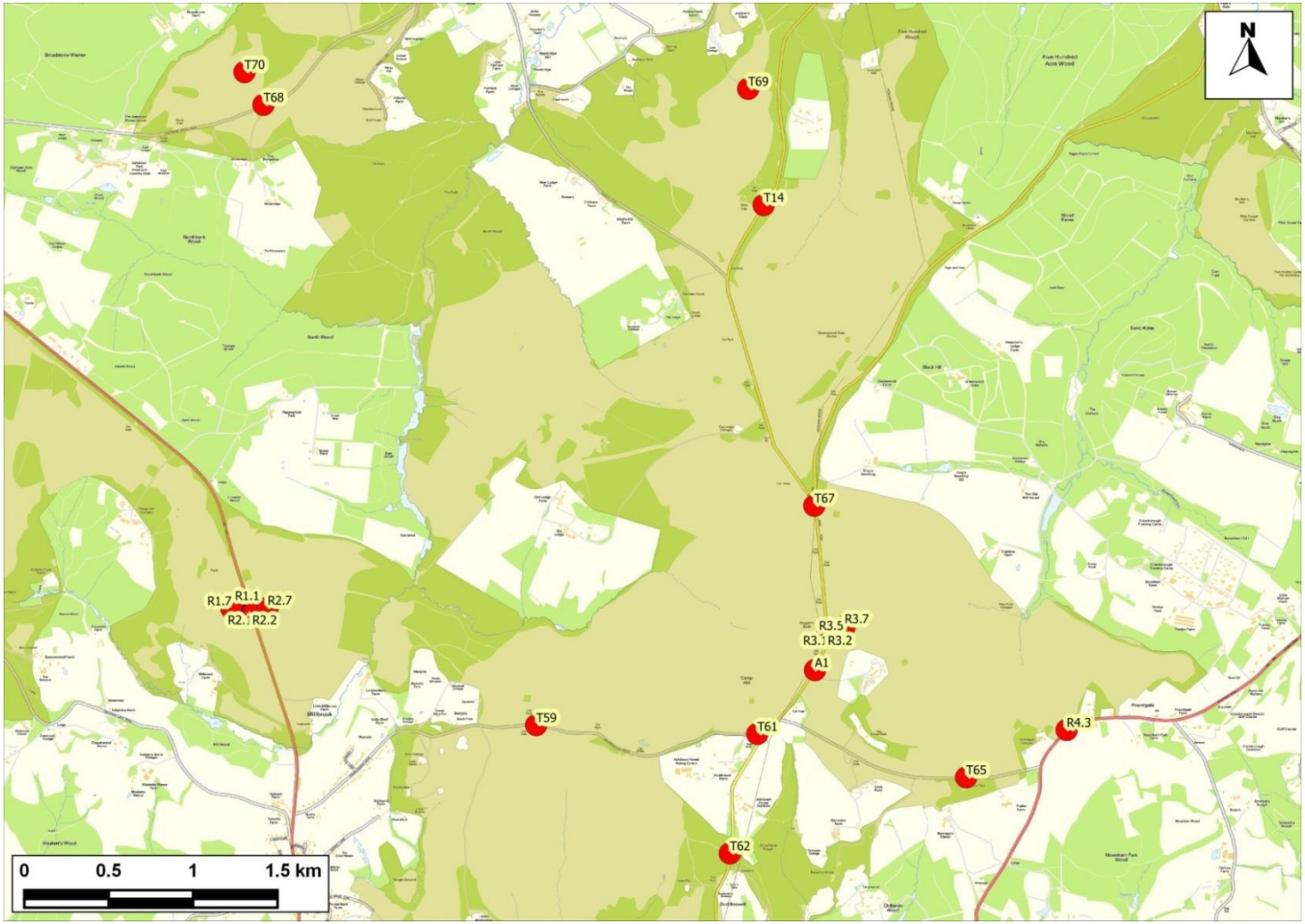


Figure A3.13: Locations of ALPHA Monitoring Sites (see Figure A3.8, Figure A3.9 and Figure A3.10 for details of transect sites)

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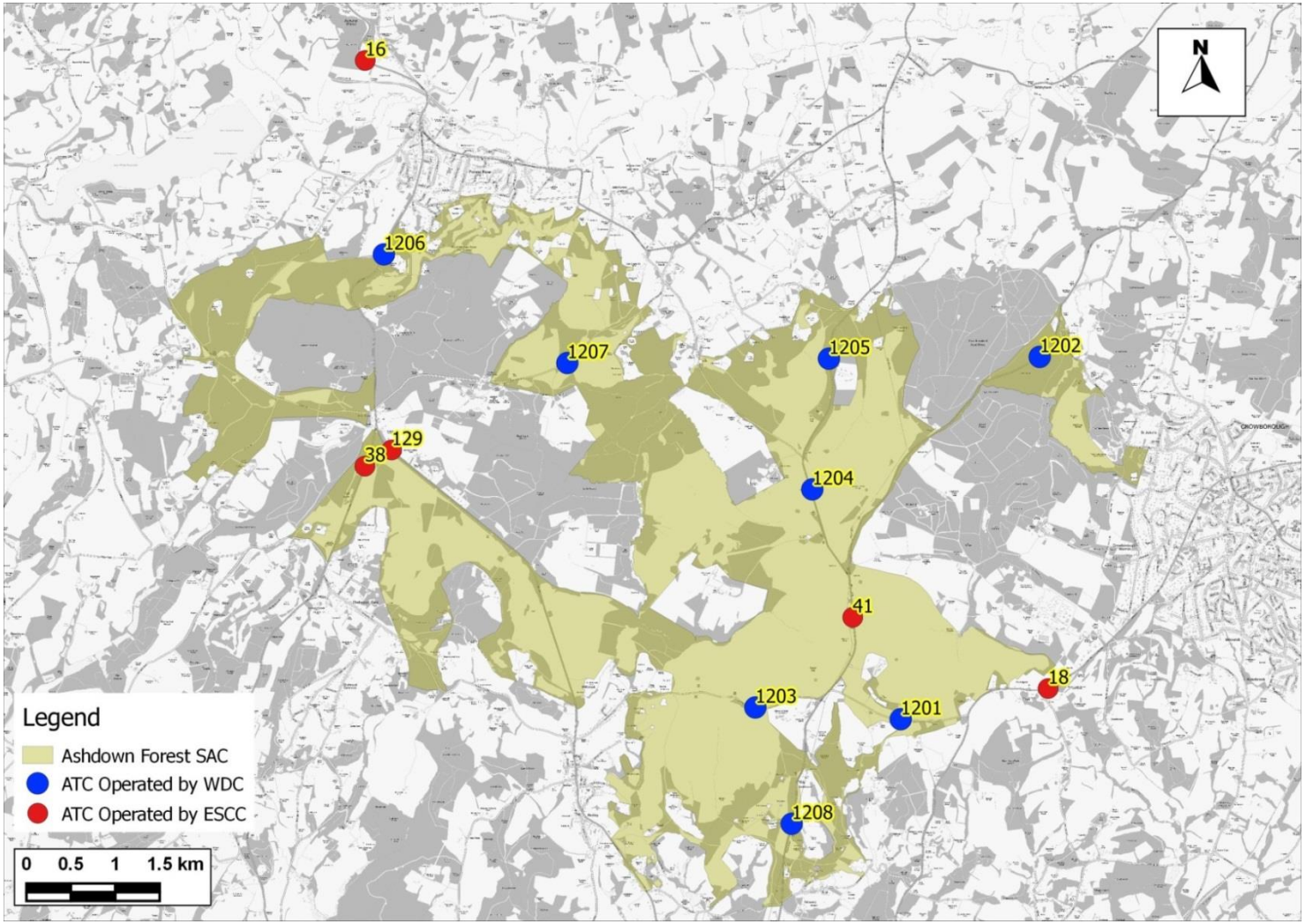


Figure A3.14: Locations of WDC and ESCC ATC Sites (The WDC sites were commissioned as part of this study)

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Appendix 4. Maps Showing Model Configuration

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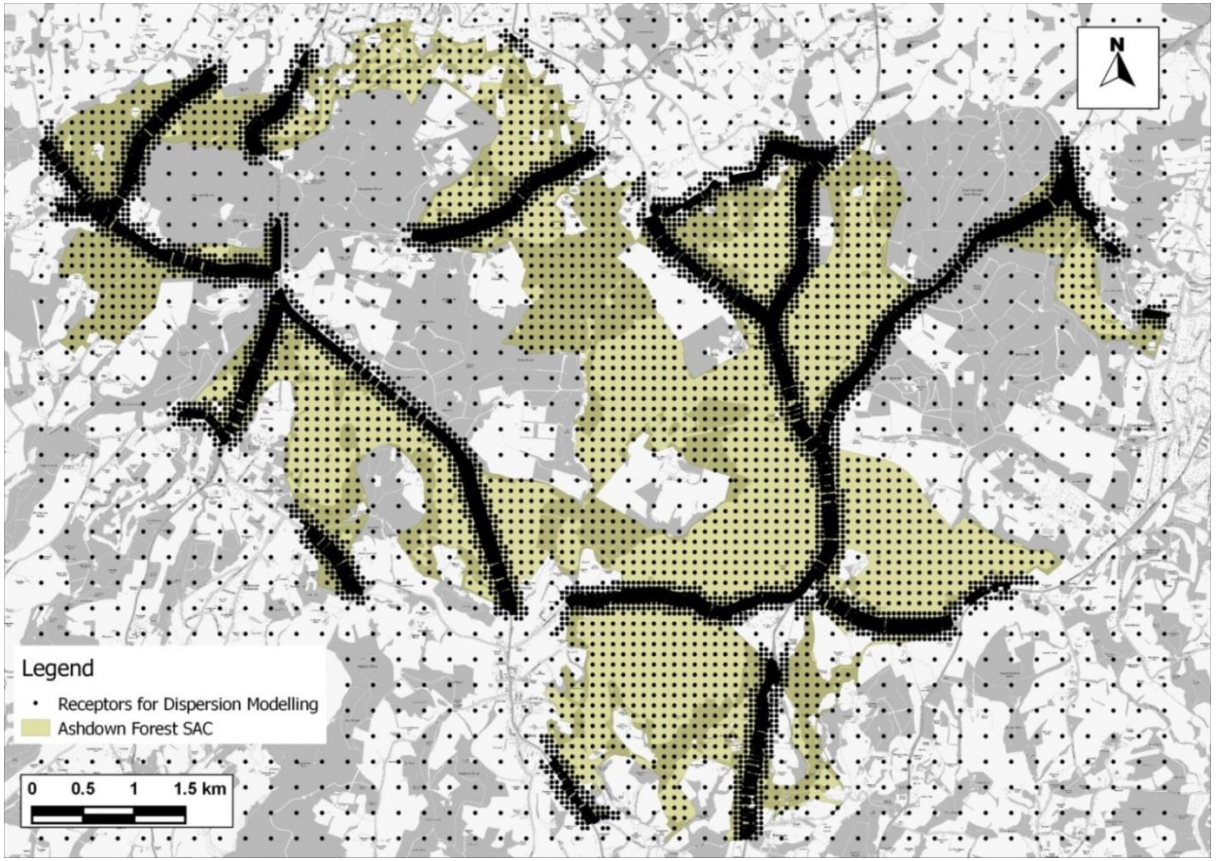


Figure A4.1: Receptor Grid for Dispersion Modelling

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Note, this grid was defined prior to receipt of the traffic model and so it includes minor roads which were not eventually modelled. Diffusion tube monitoring suggests that the omission of these roads from the model is unlikely to be significant.

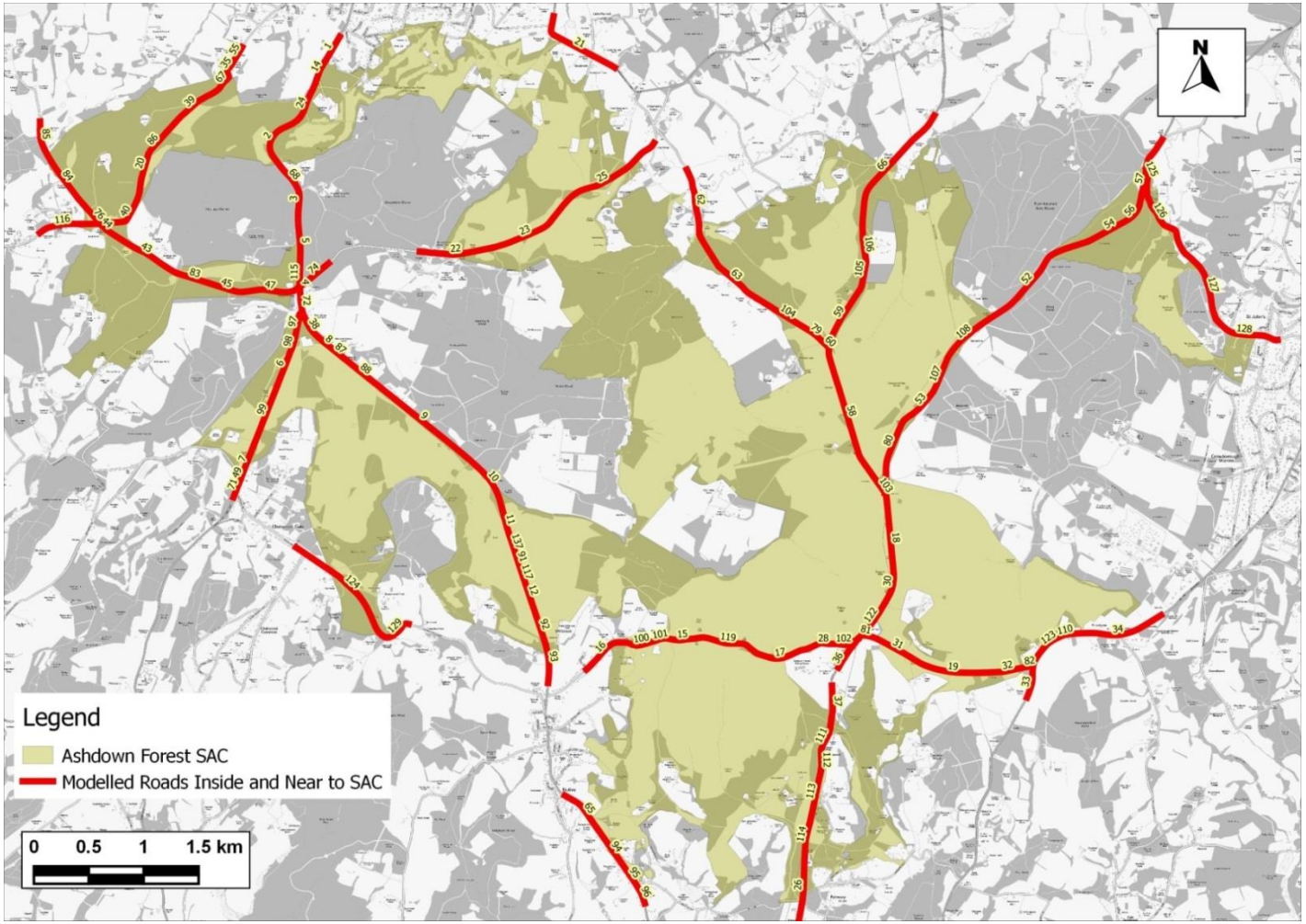


Figure A4.2: Modelled Roads within and Immediately Adjacent to the SAC

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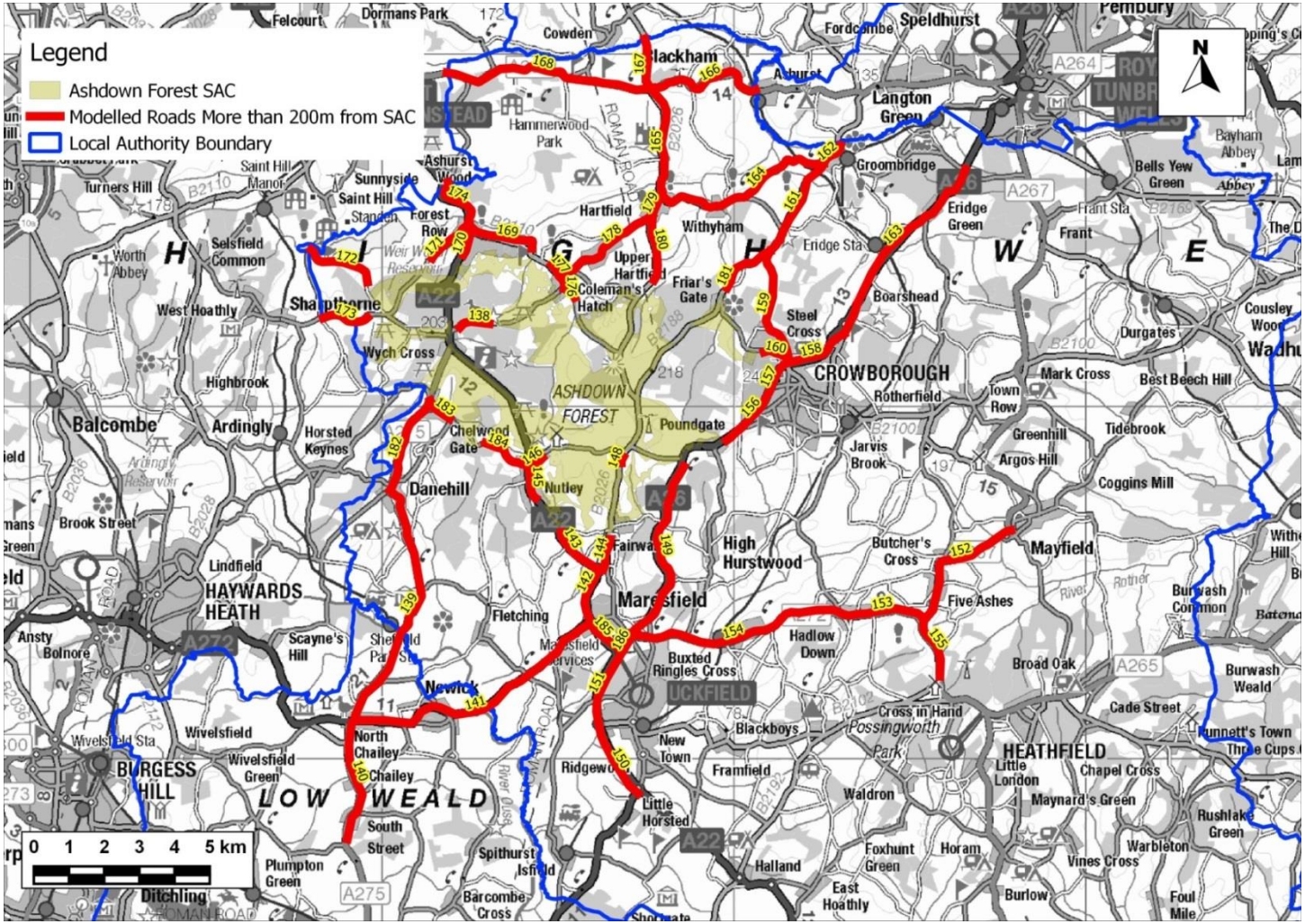


Figure A4.3: Modelled Roads Outside of the SAC (Road Selection Determined by Traffic Model)

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Appendix 5. Maps Showing Measured Concentrations



Figure A5.1: Two-year Average Measured NO_2 Concentrations in Northwest Section of Study Area

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Figure A5.2: Two-year Average Measured NO_2 Concentrations in Northeast Section of Study Area

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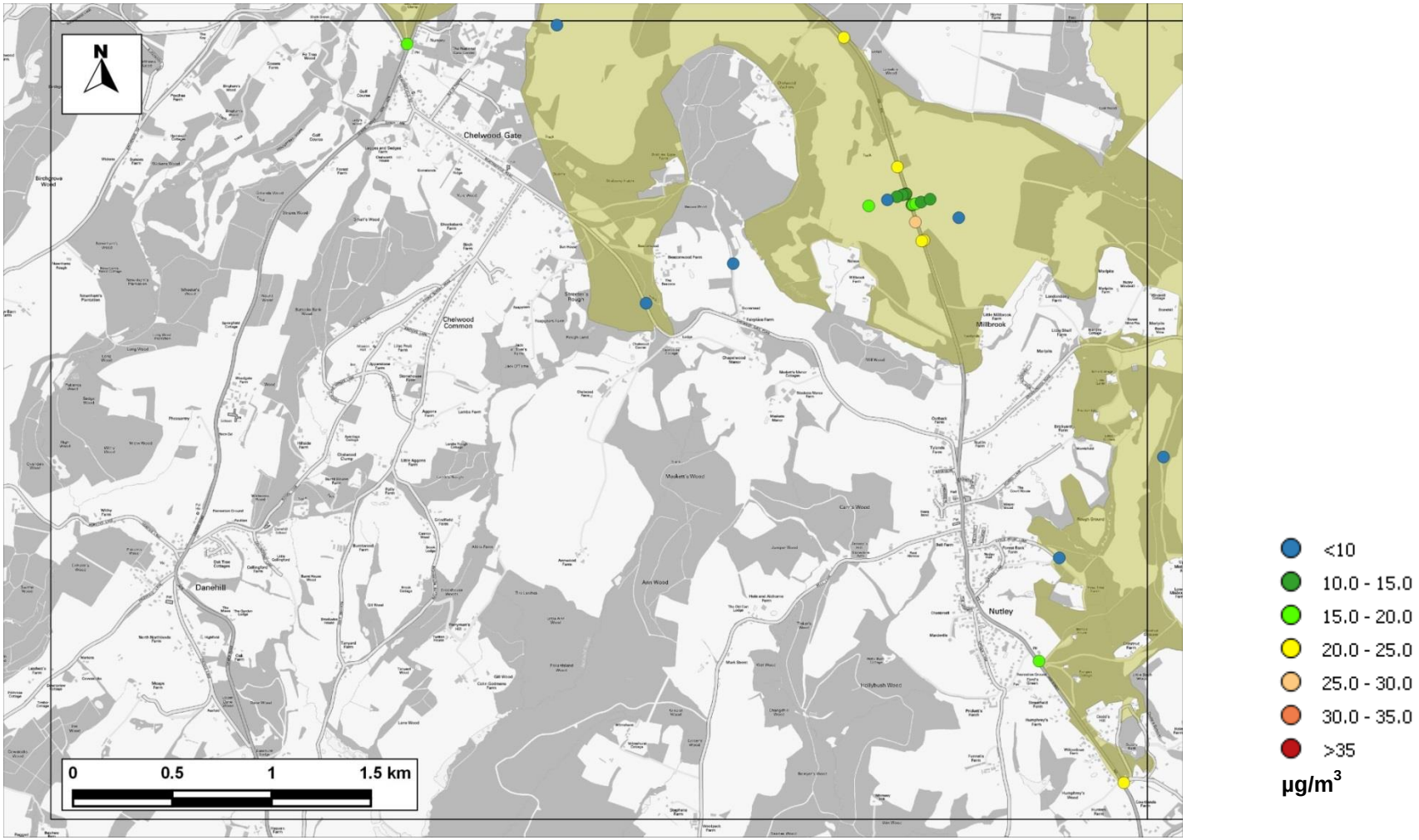


Figure A5.3: Two-year Average Measured NO_2 Concentrations in Southwest Section of Study Area

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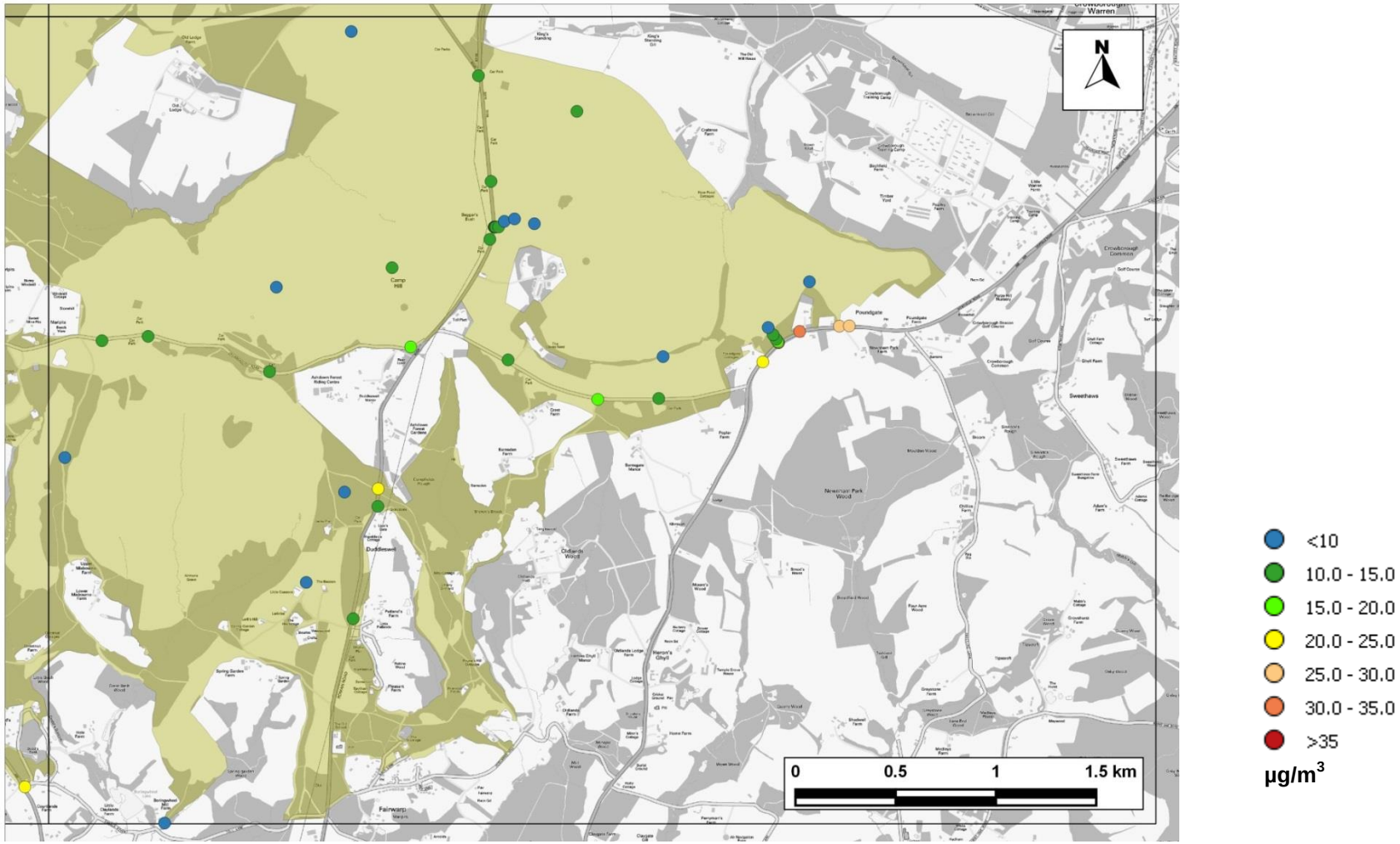


Figure A5.4: Two-year Average Measured NO_2 Concentrations in Southeast Section of Study Area

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Appendix 6. Maps of 2015 Baseline Model Results

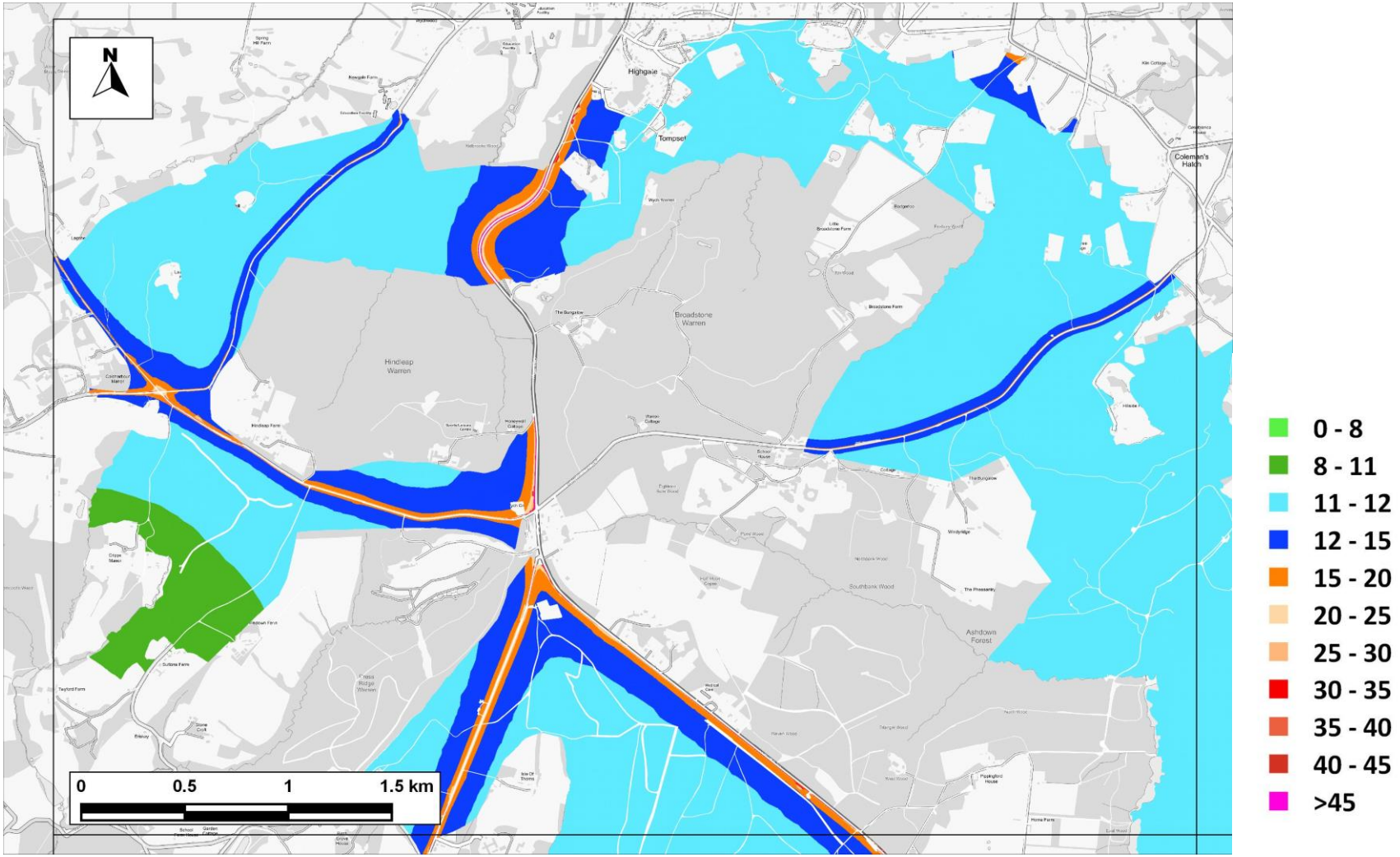


Figure A6.1: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2015 Baseline

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Figure A6.2: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2015 Baseline

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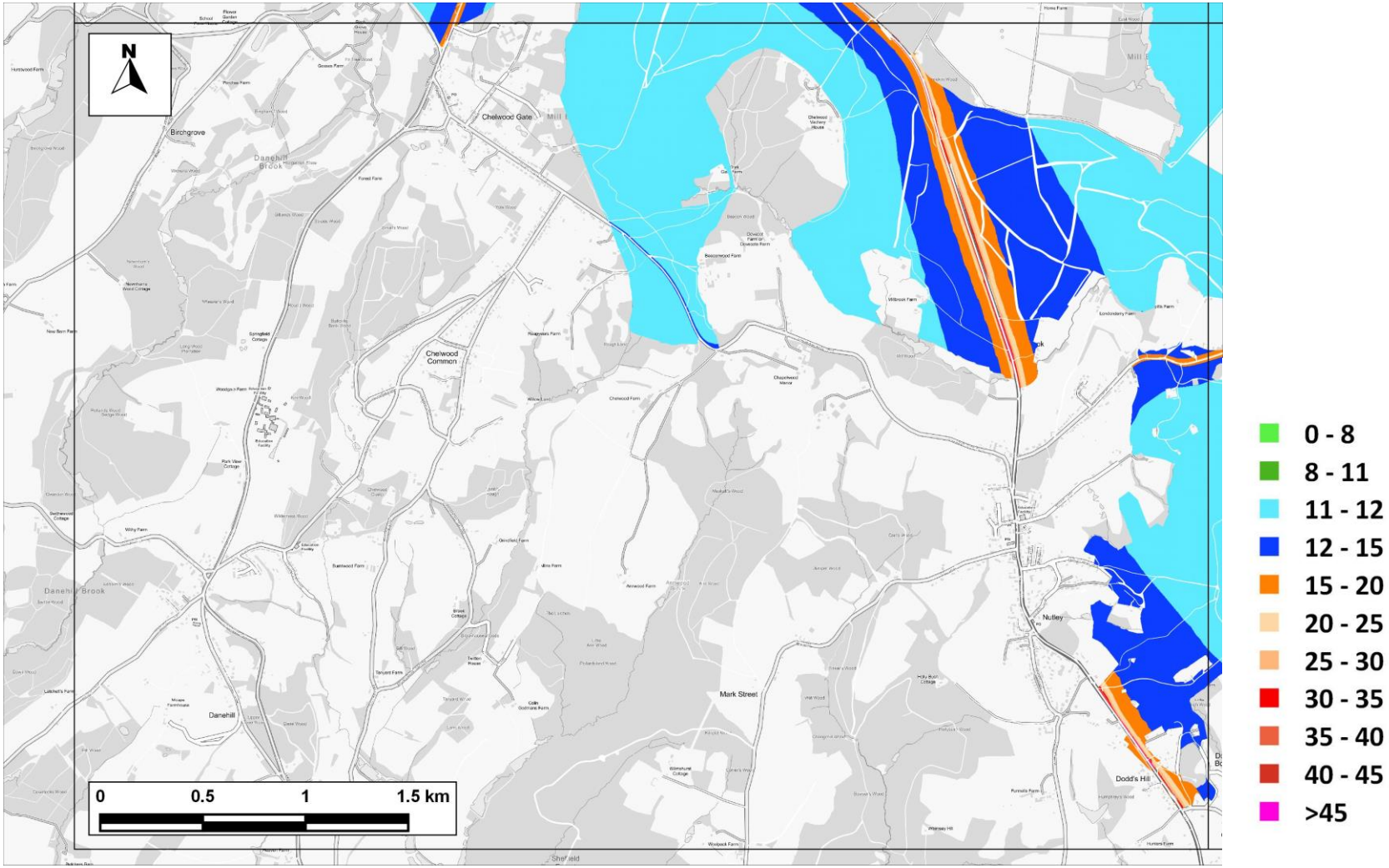


Figure A6.3: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2015 Baseline

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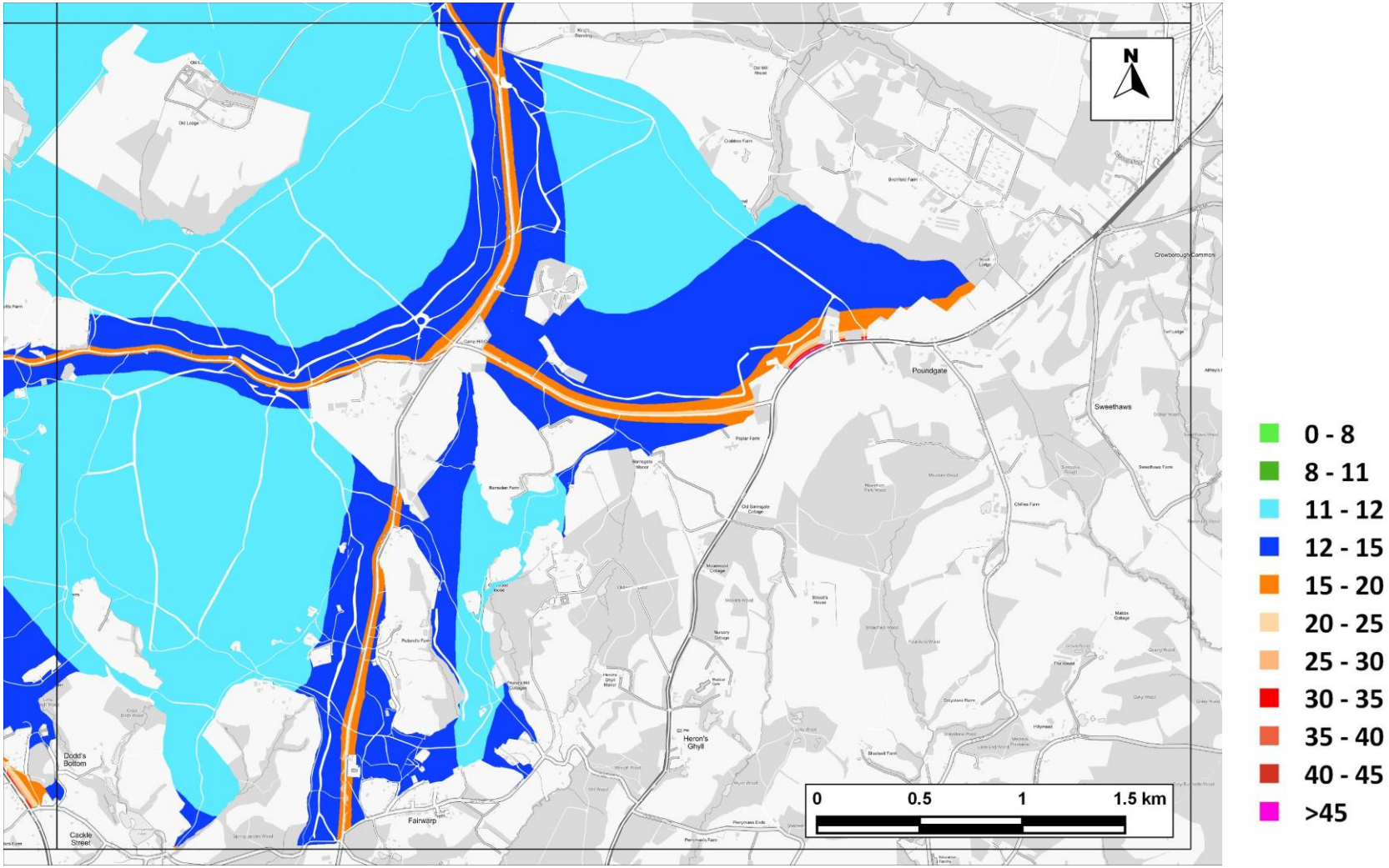


Figure A6.4: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2015 Baseline

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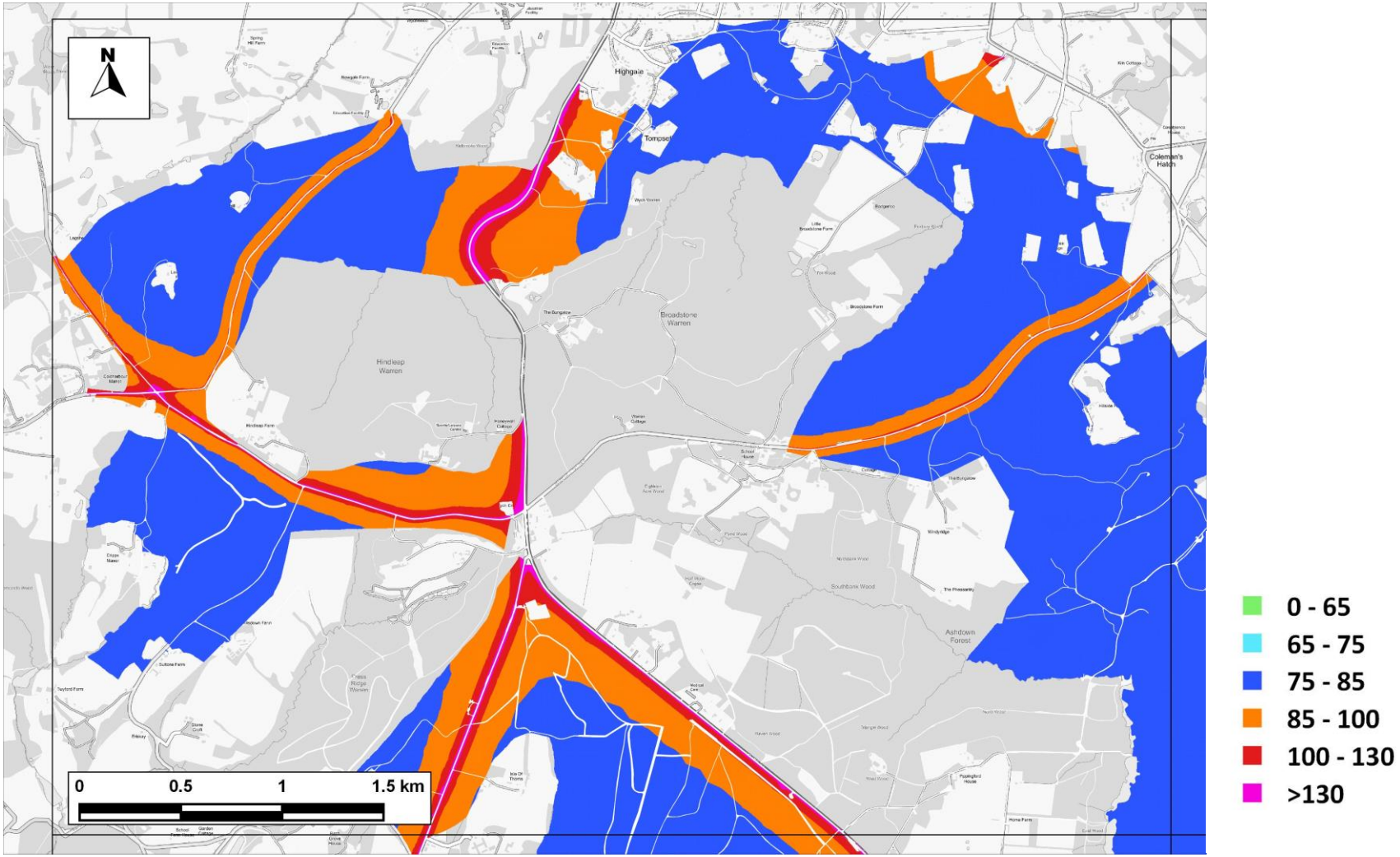


Figure A6.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2015 Baseline

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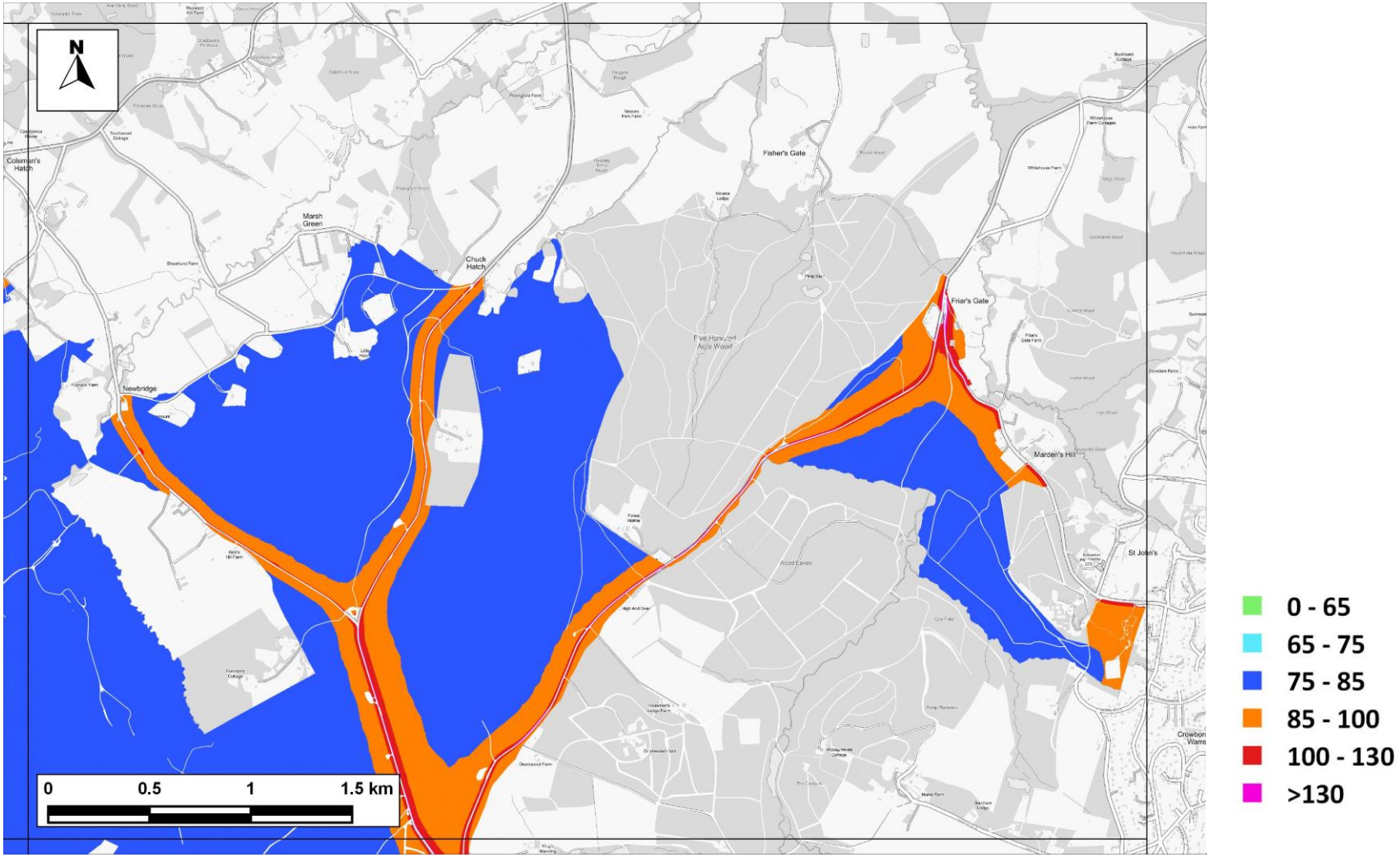


Figure A6.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2015 Baseline

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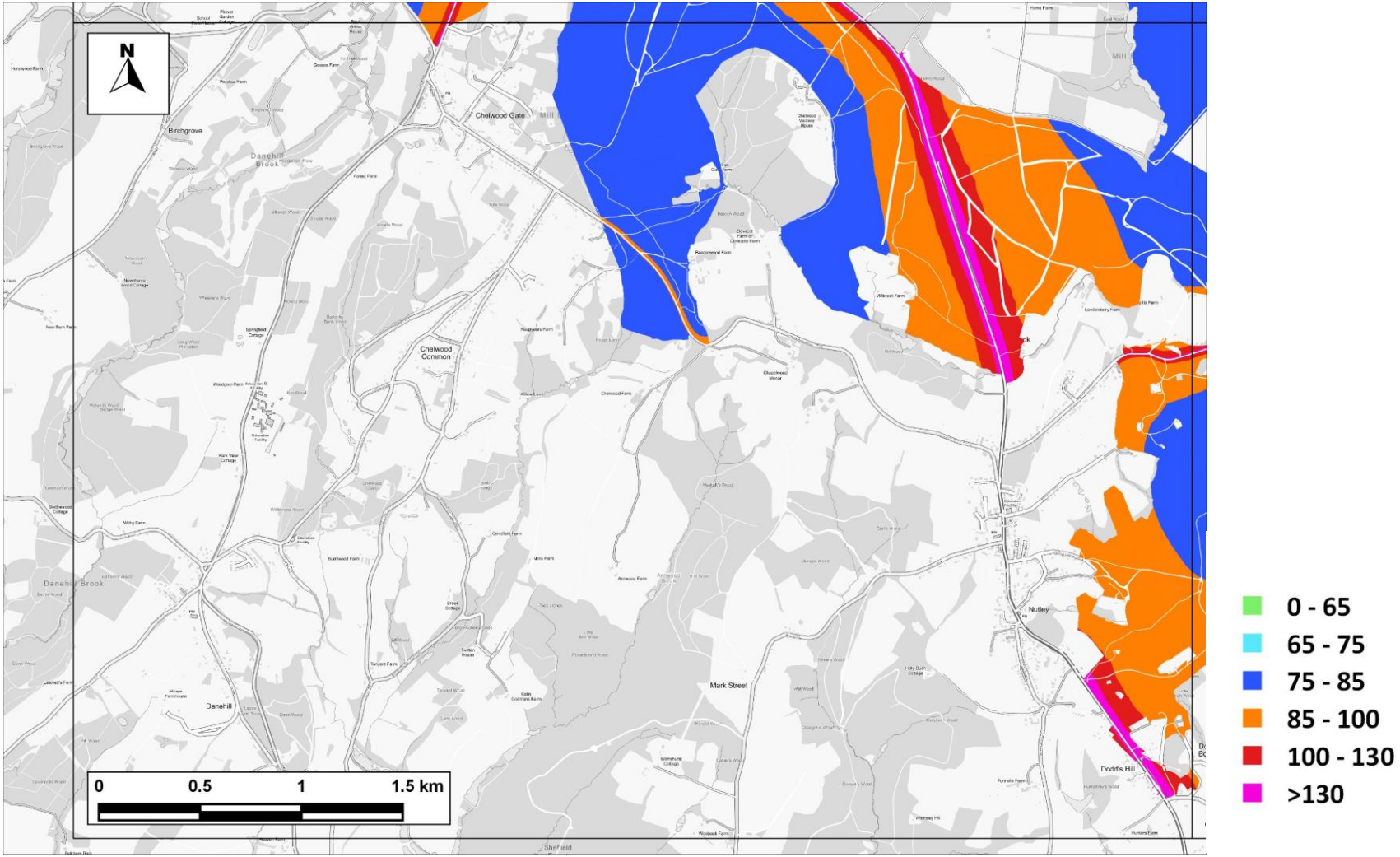


Figure A6.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2015 Baseline

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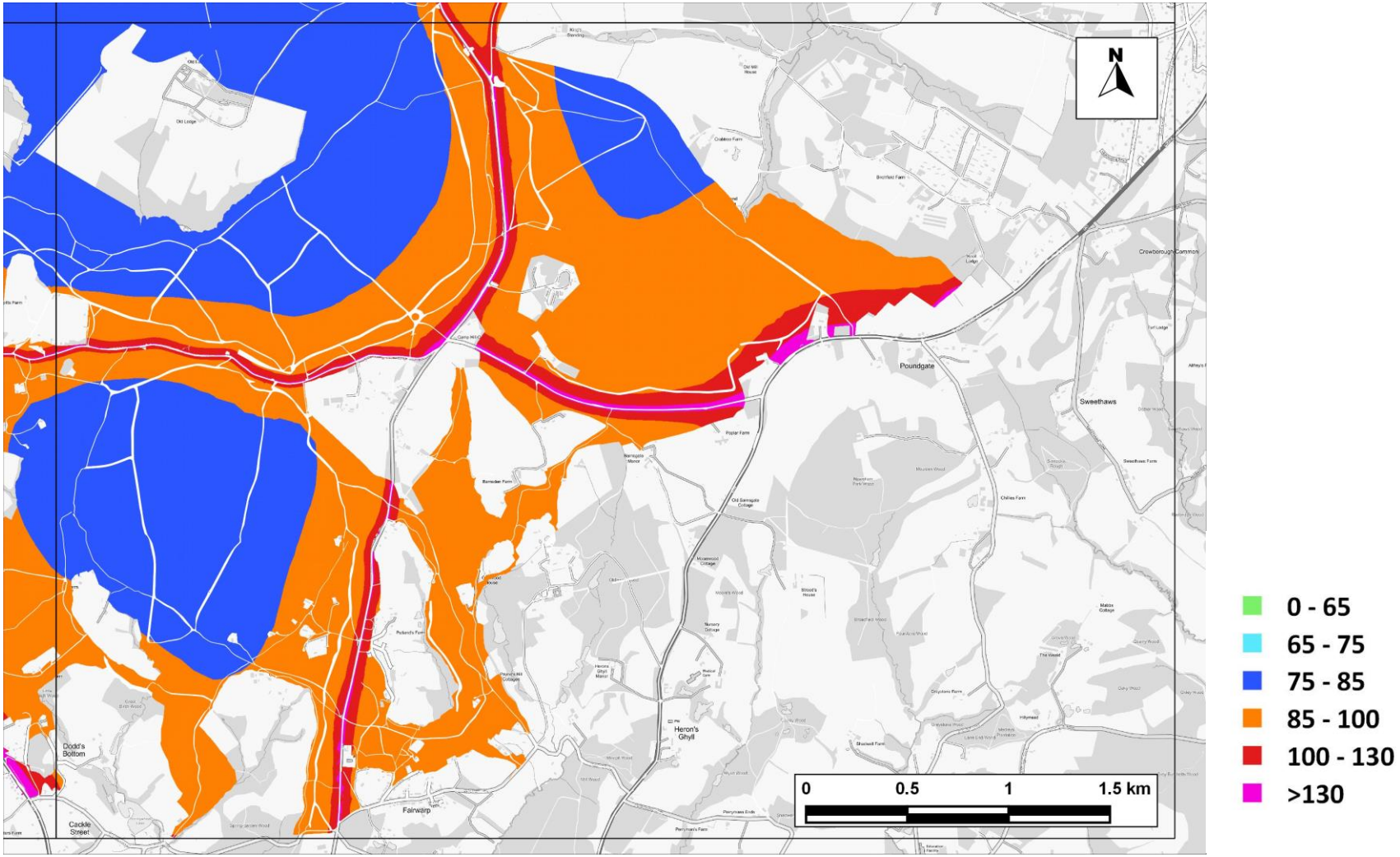


Figure A6.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2015 Baseline

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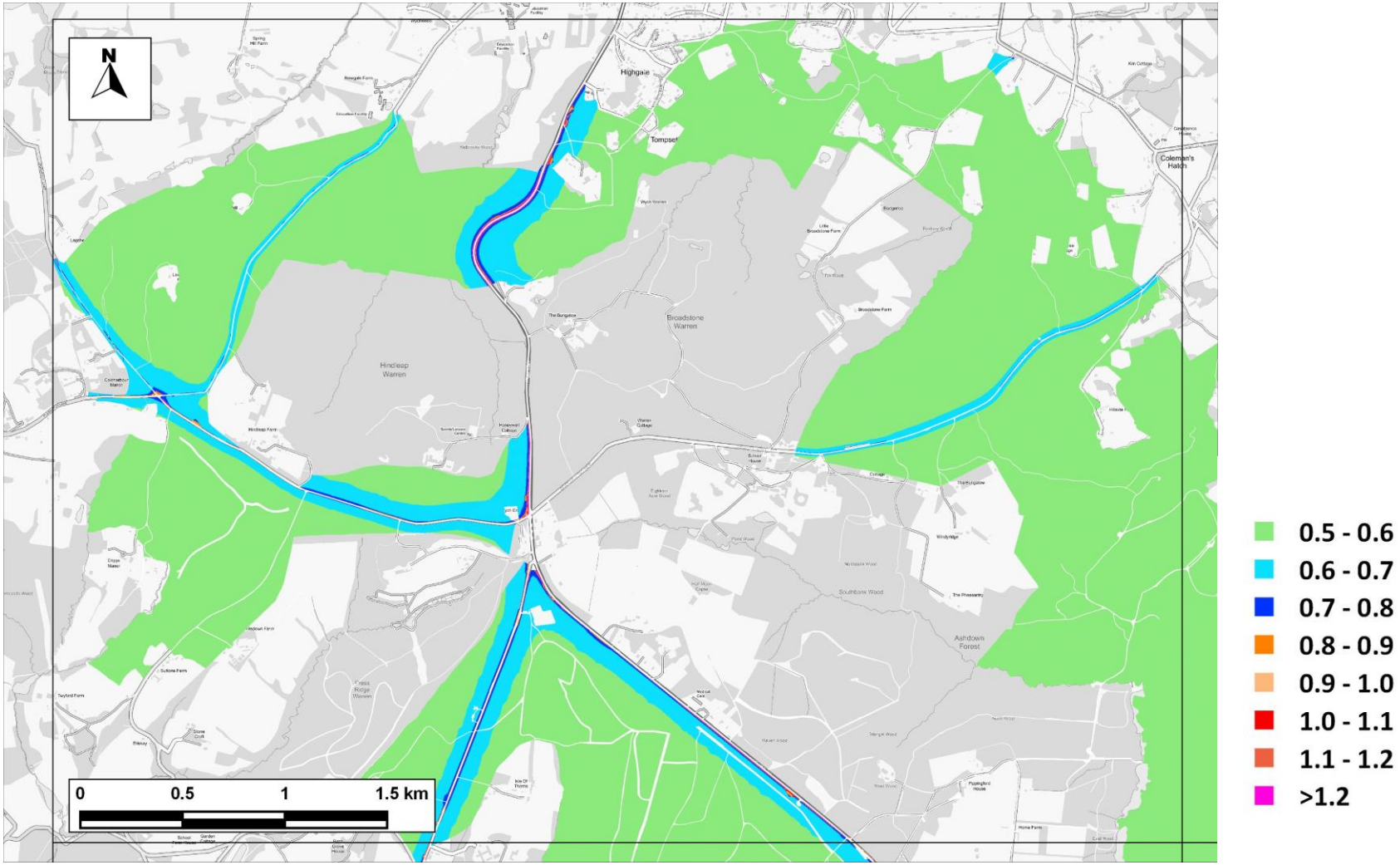


Figure A6.9: Annual Mean NH_3 in Northwest Section of Study Area (µg/m^3) 2015 Baseline

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Figure A6.10: Annual Mean NH_3 in Northeast Section of Study Area (µg/m^3) 2015 Baseline

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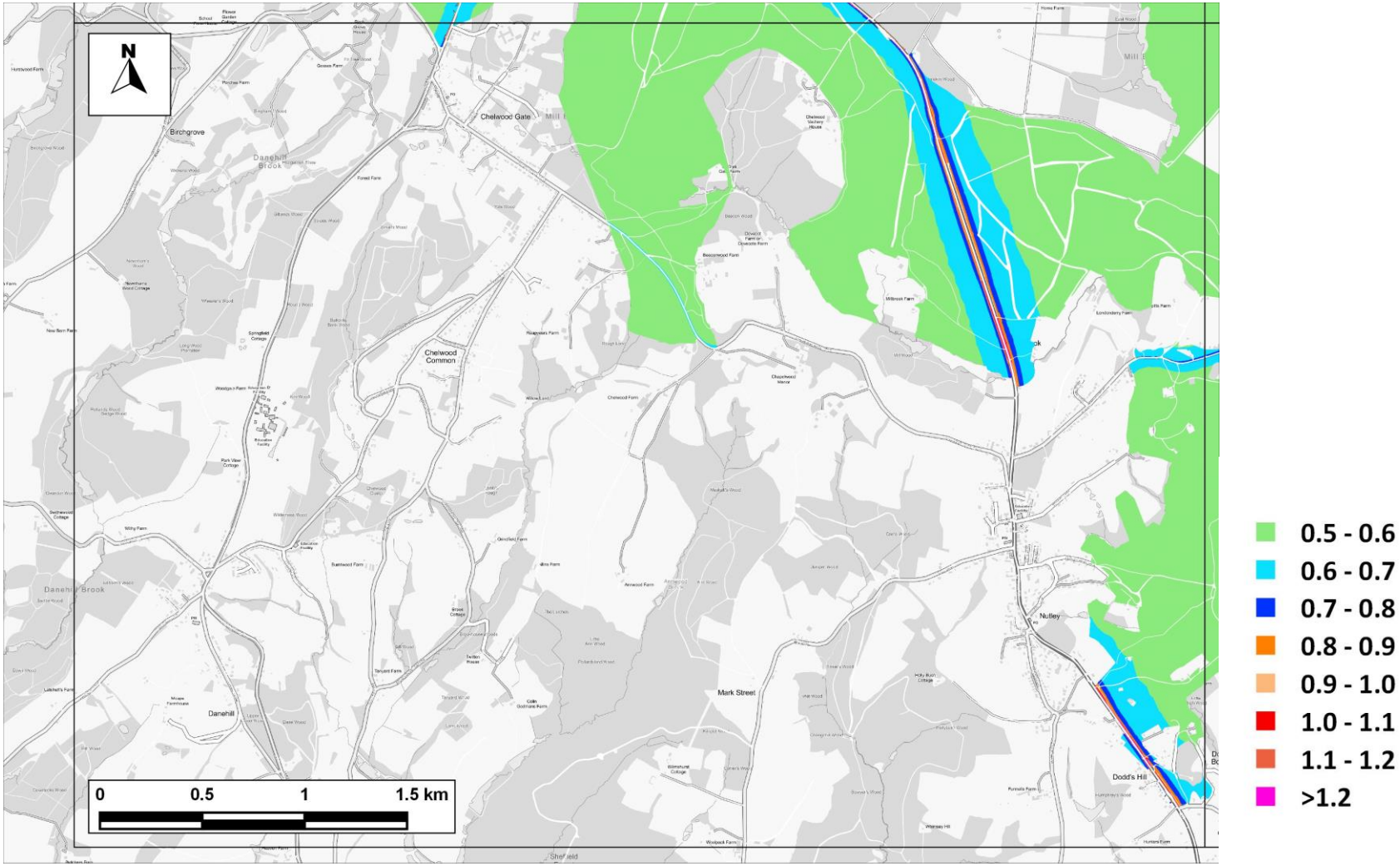


Figure A6.11: Annual Mean NH_3 in Southwest Section of Study Area (µg/m^3) 2015 Baseline

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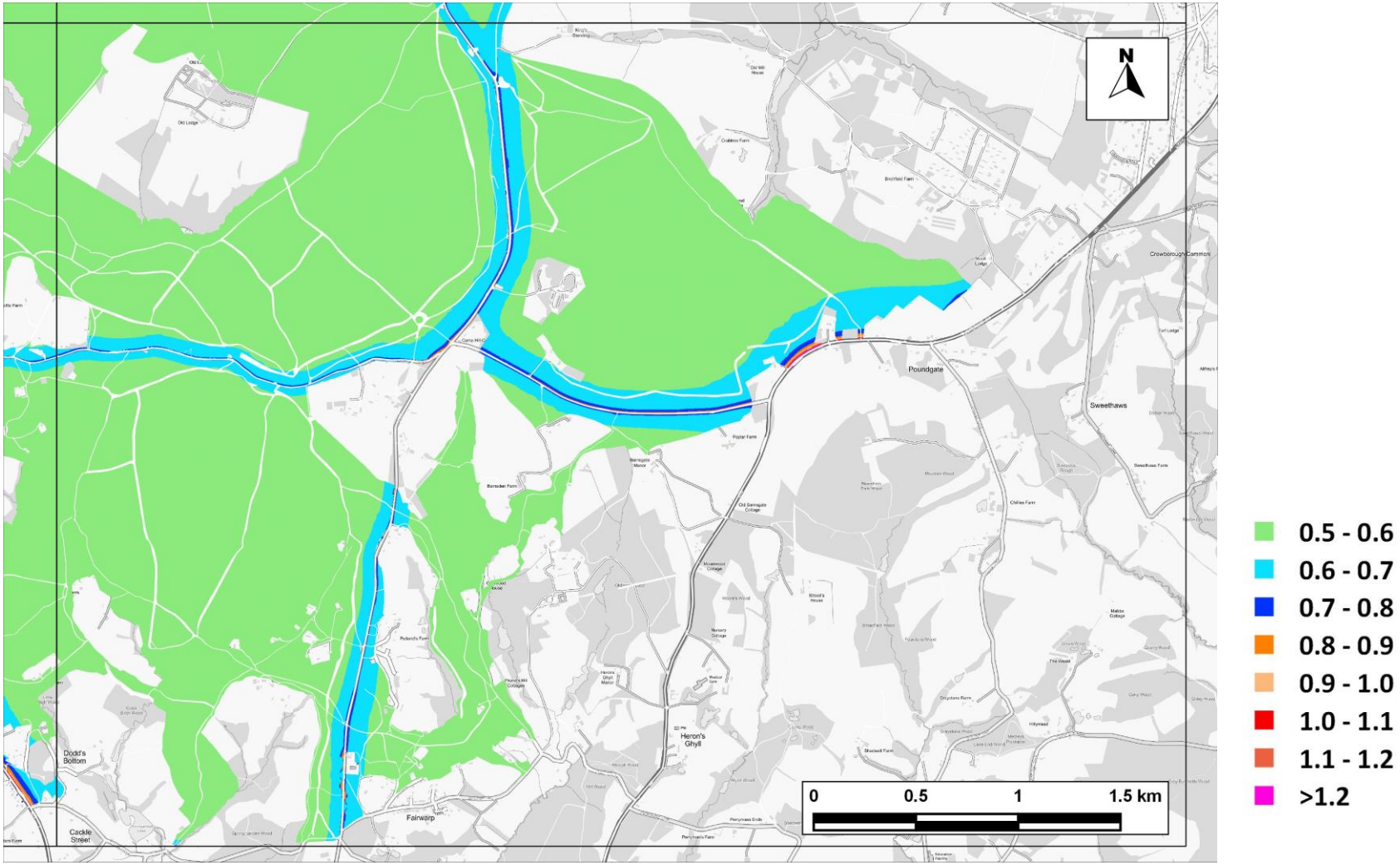


Figure A6.12: Annual Mean NH_3 in Southeast Section of Study Area (µg/m^3) 2015 Baseline

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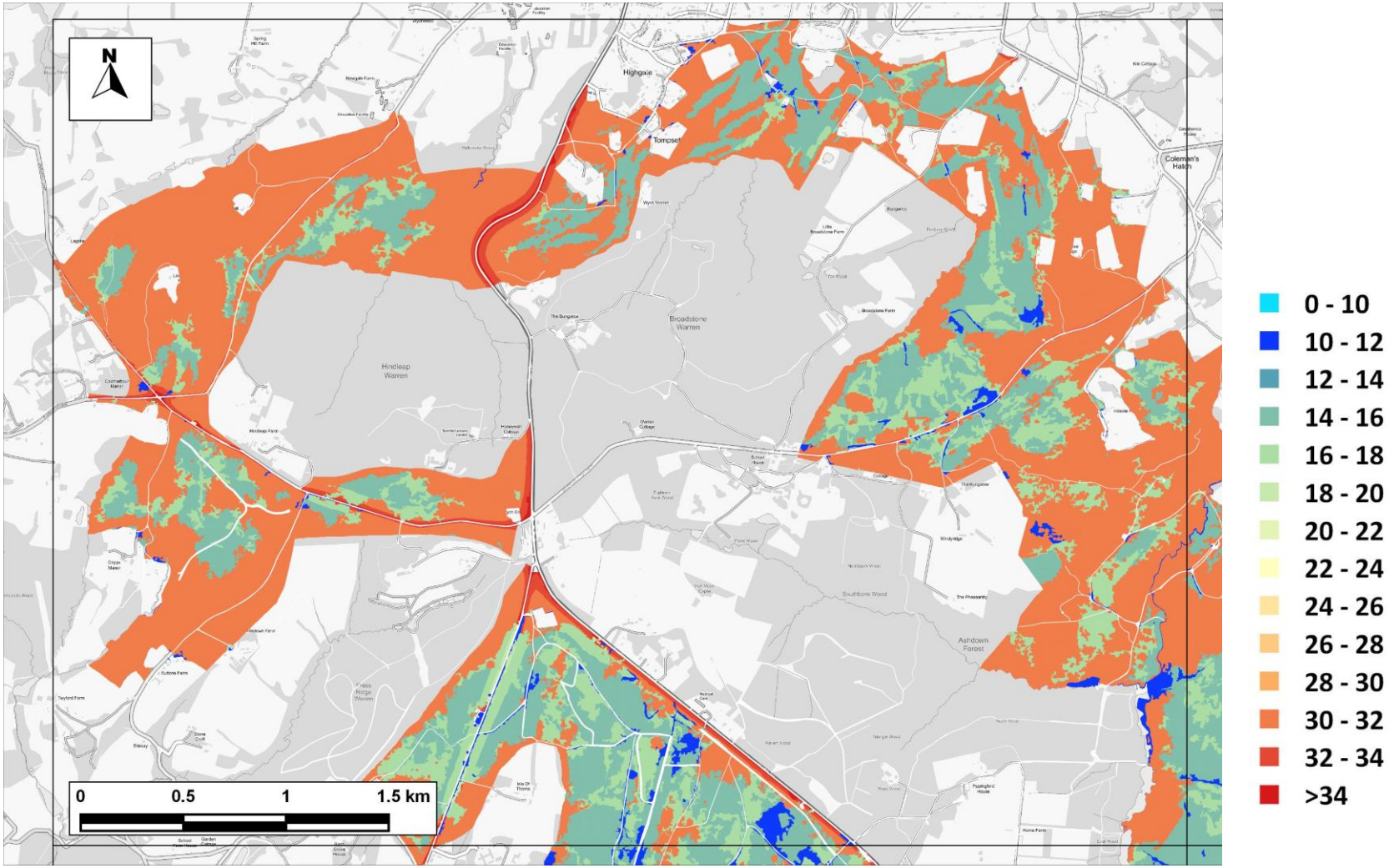


Figure A6.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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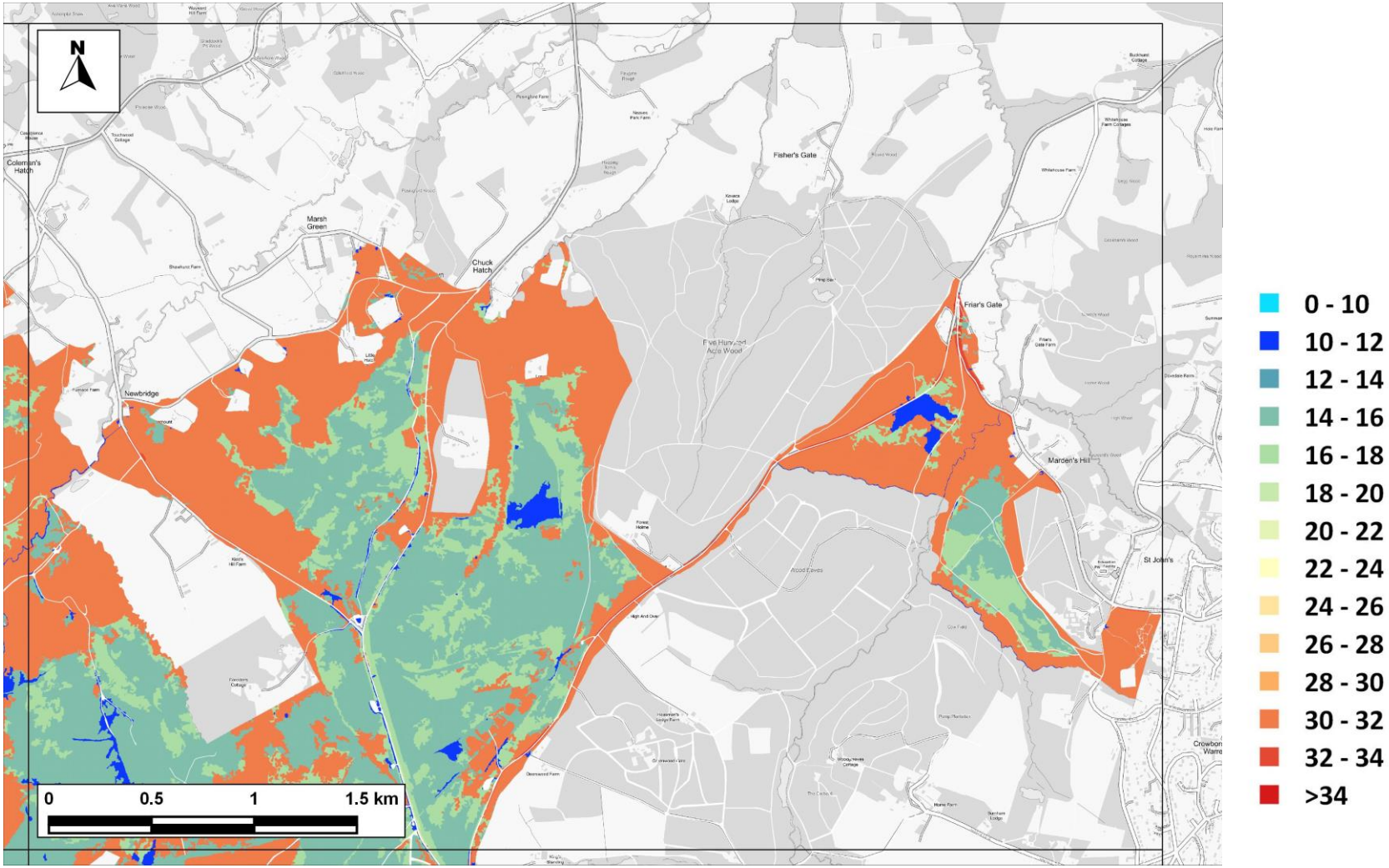


Figure A6.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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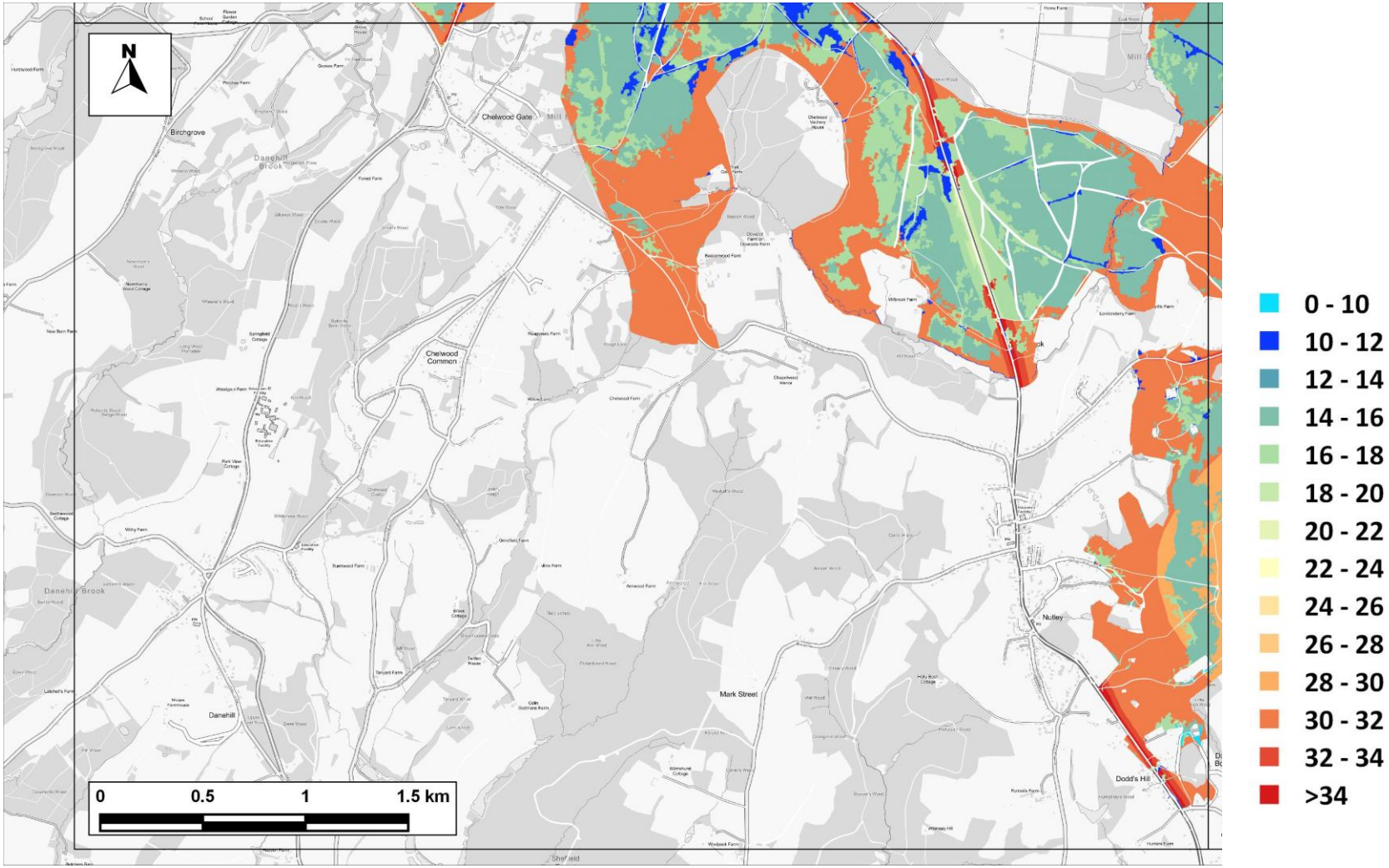


Figure A6.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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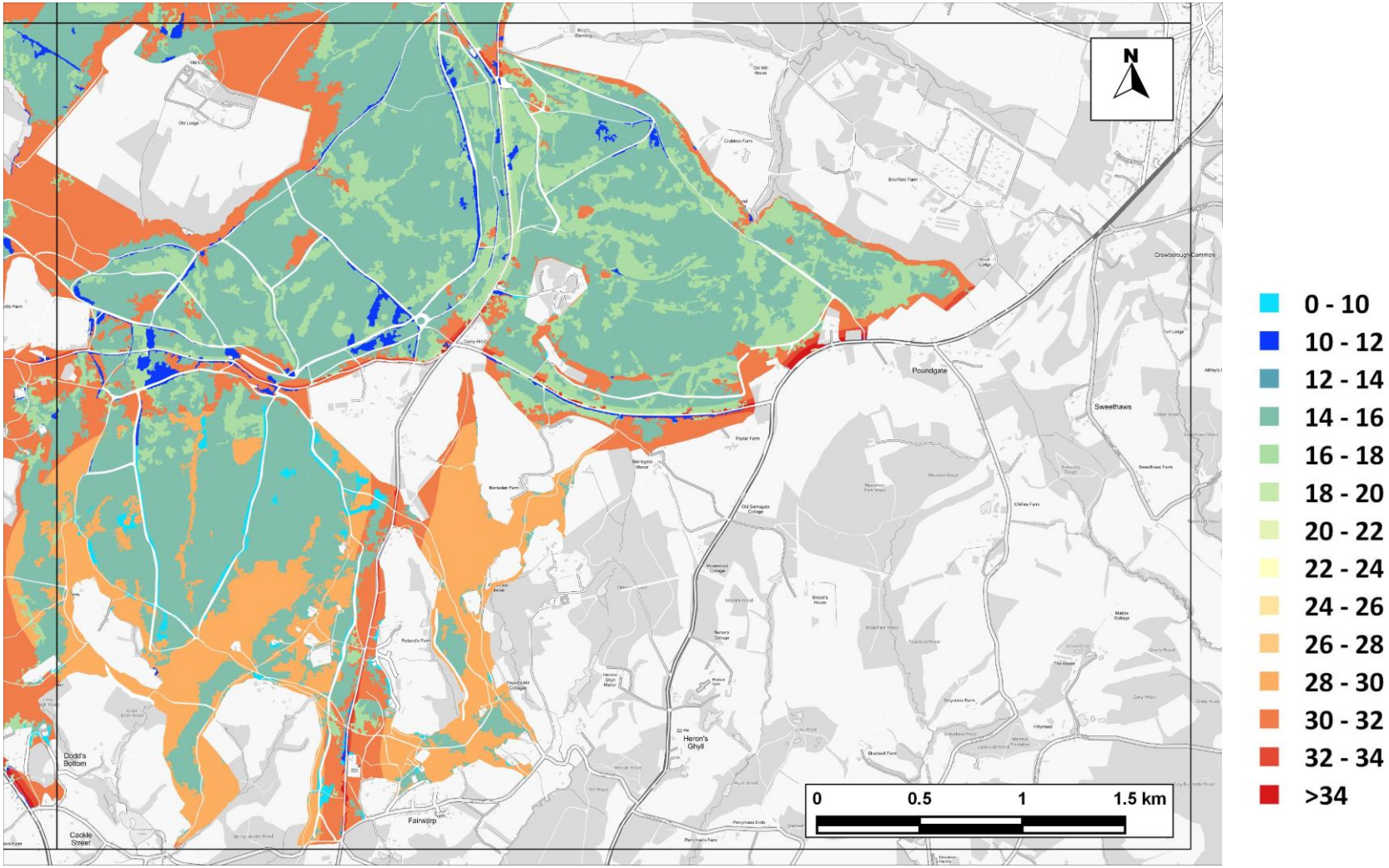


Figure A6.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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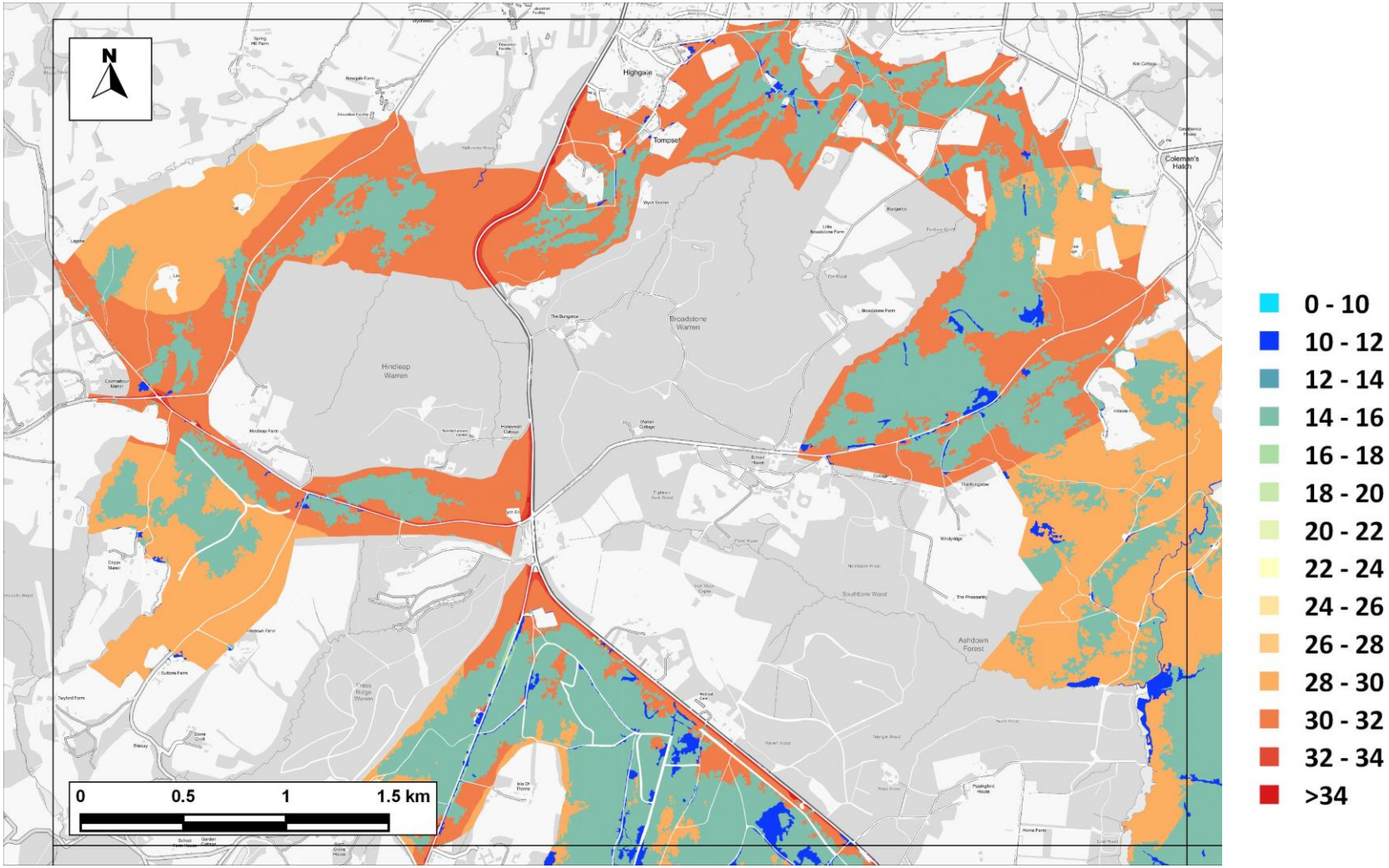


Figure A6.17: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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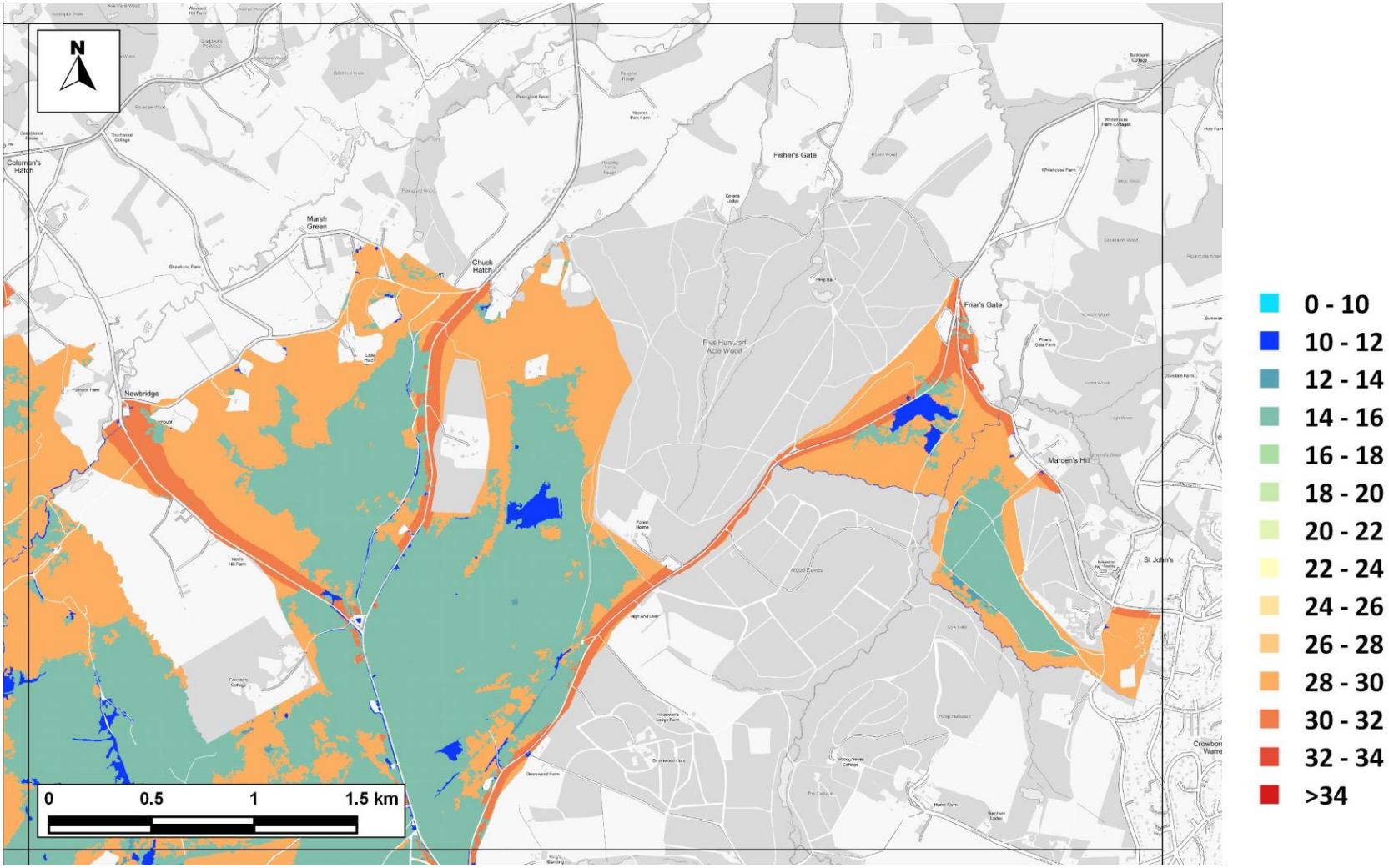


Figure A6.18: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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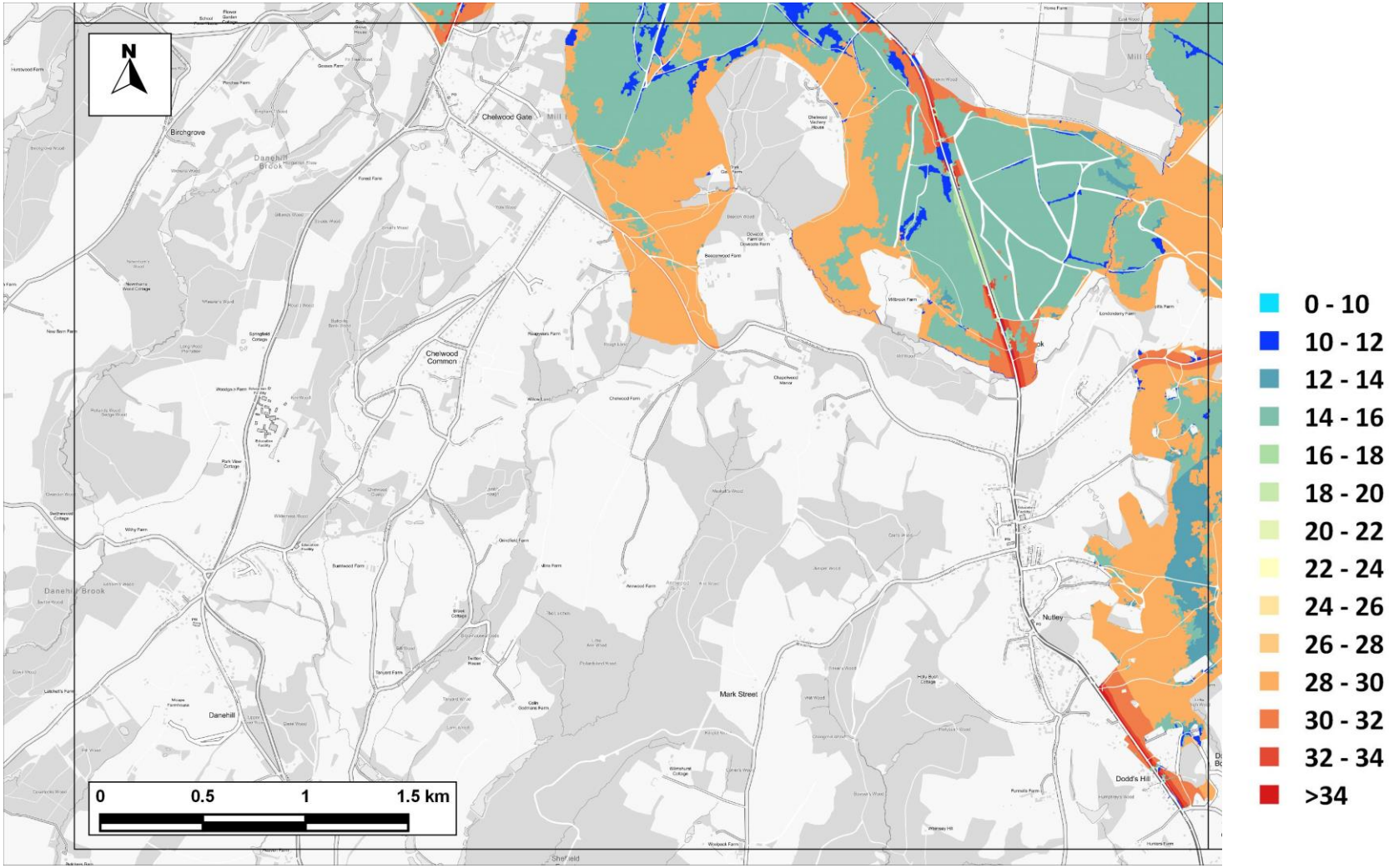


Figure A6.19: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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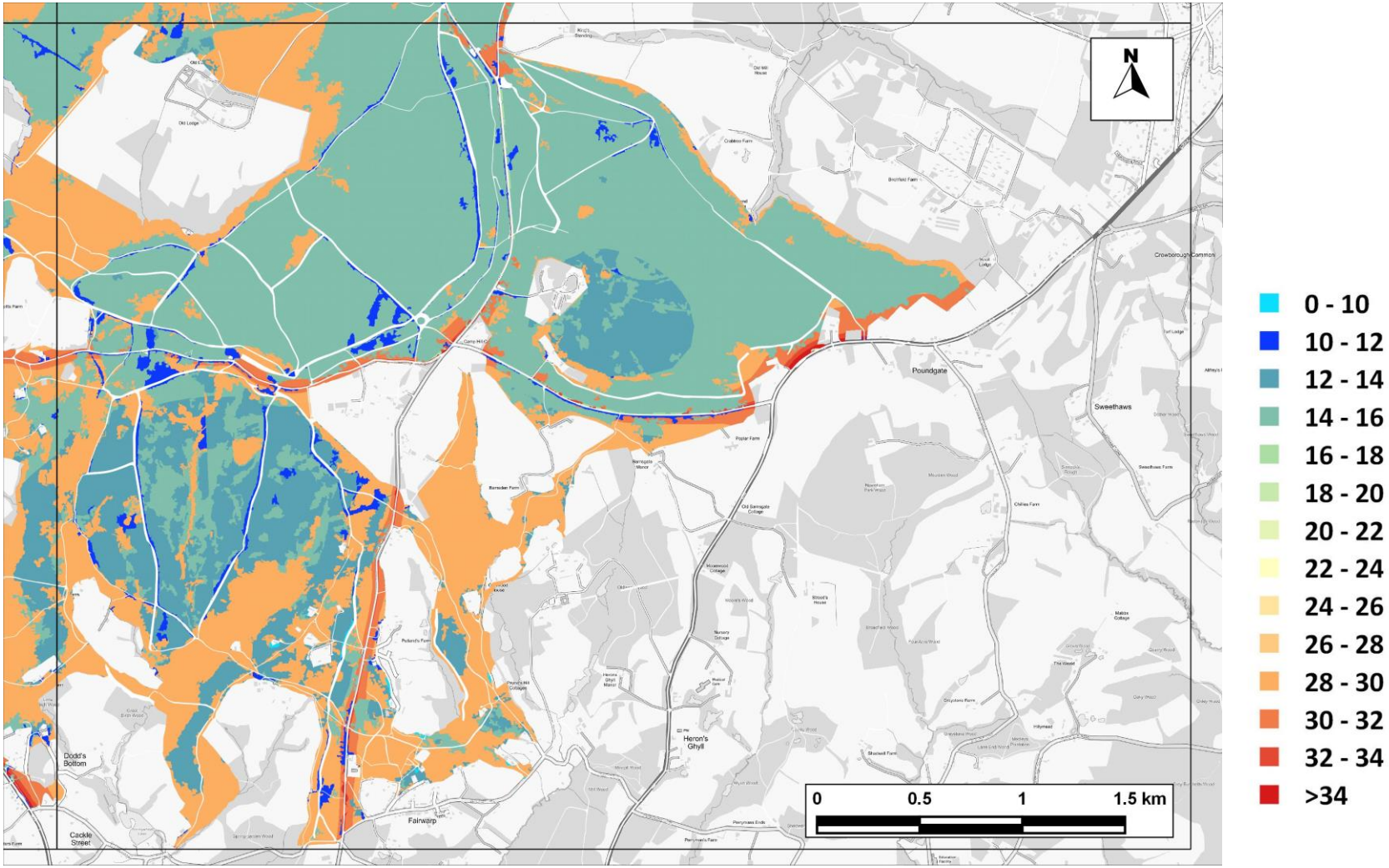


Figure A6.20: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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Appendix 7. Maps of 2028 No Growth Model Results

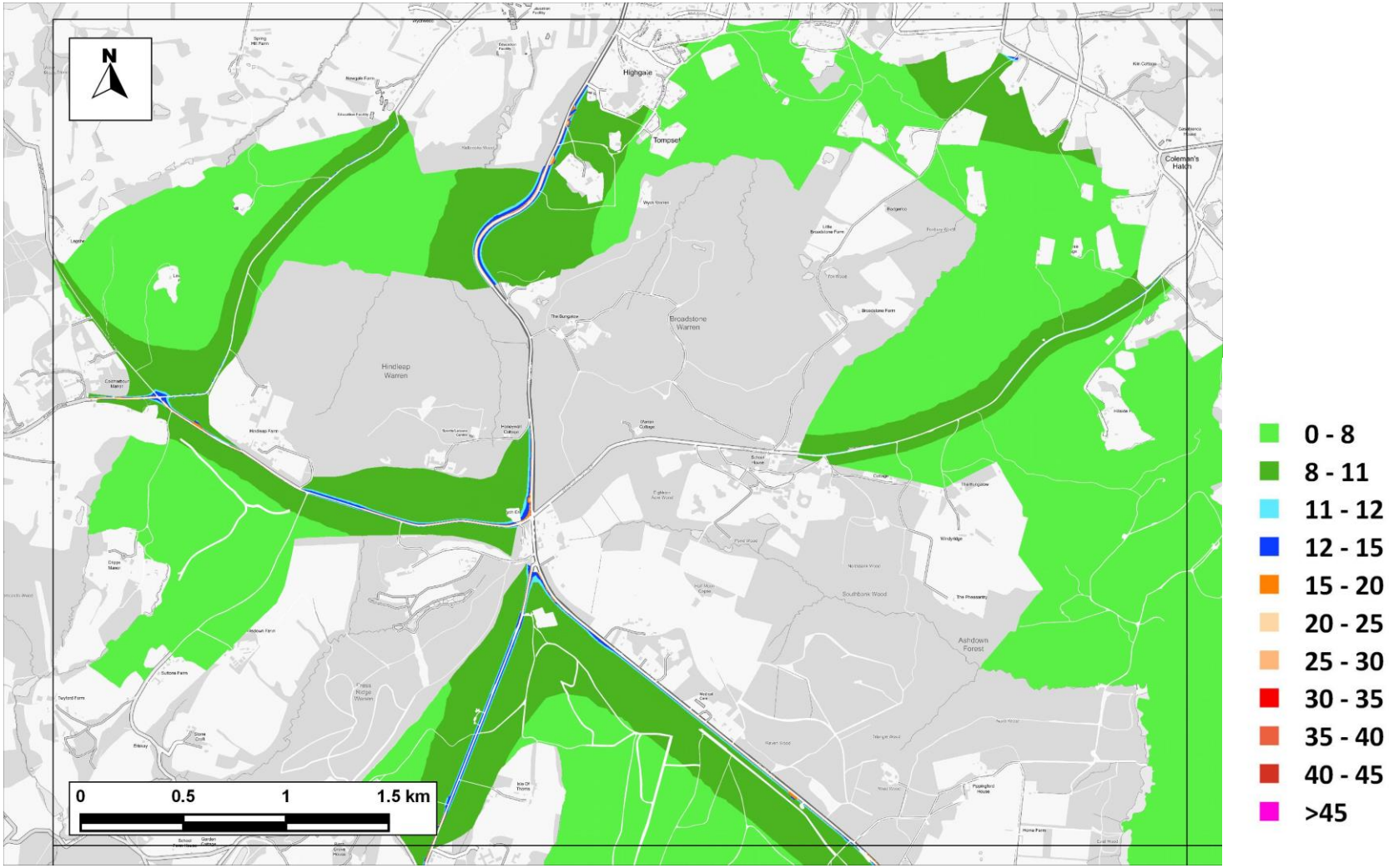


Figure A7.1: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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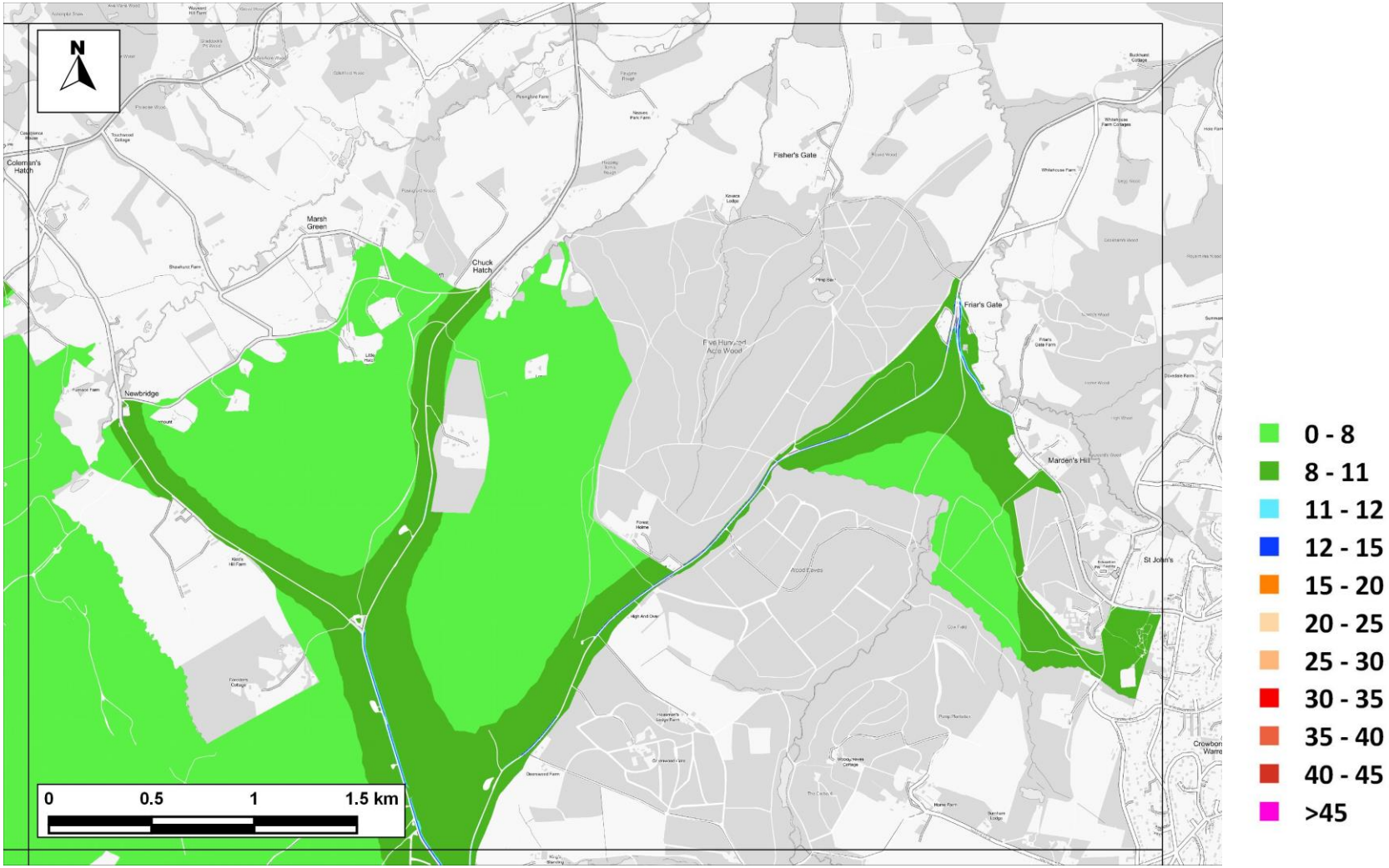


Figure A7.2: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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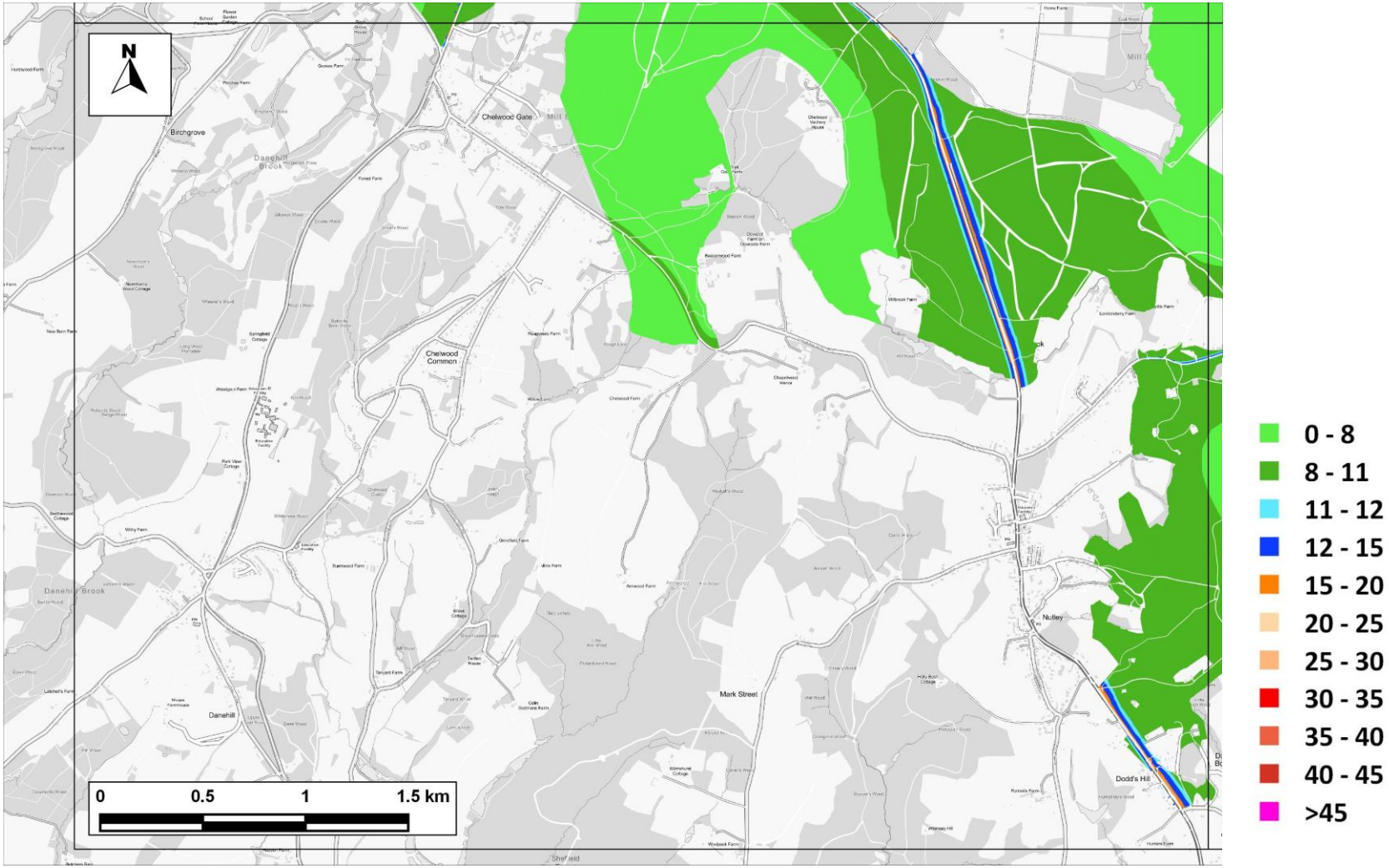


Figure A7.3: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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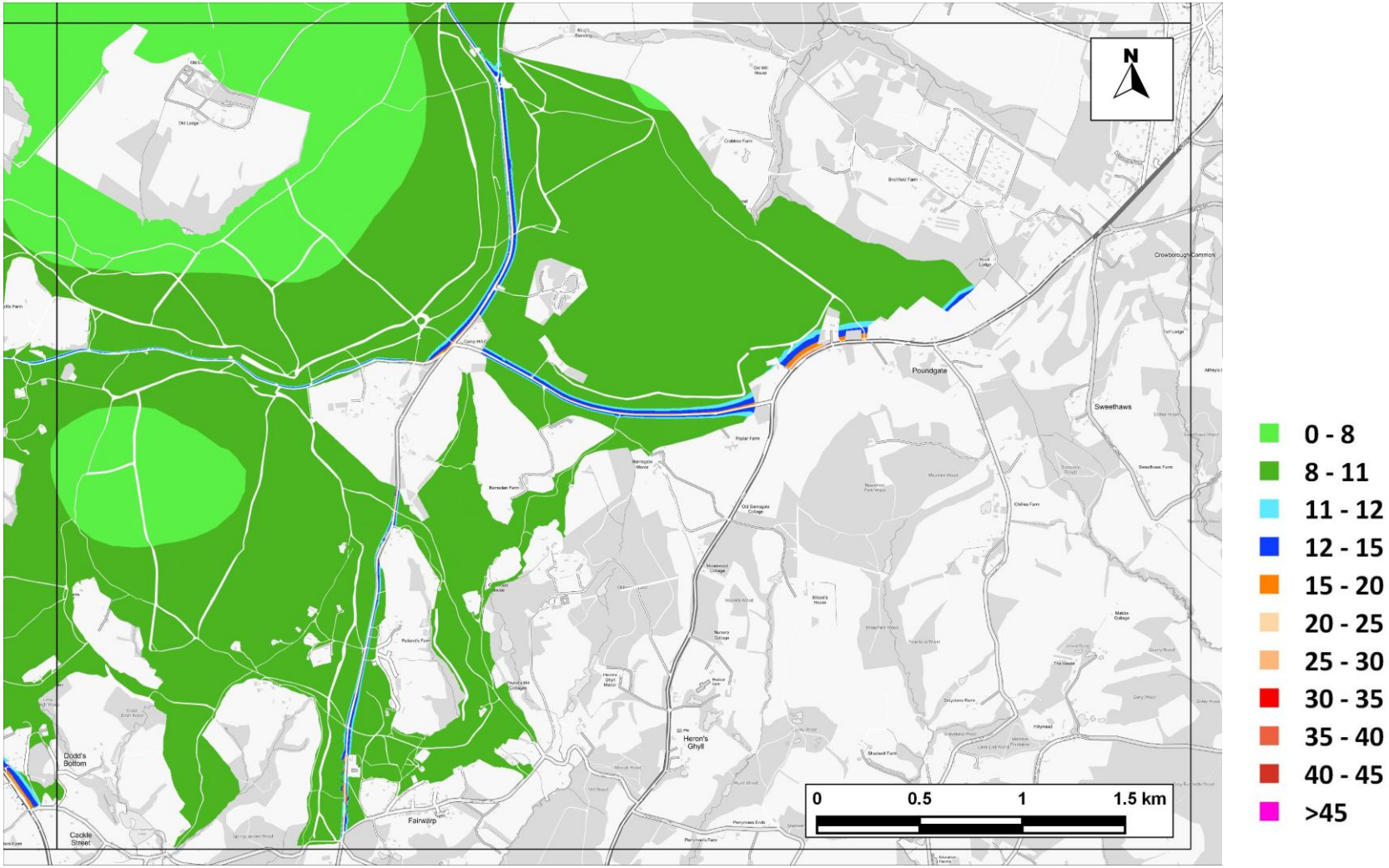


Figure A7.4: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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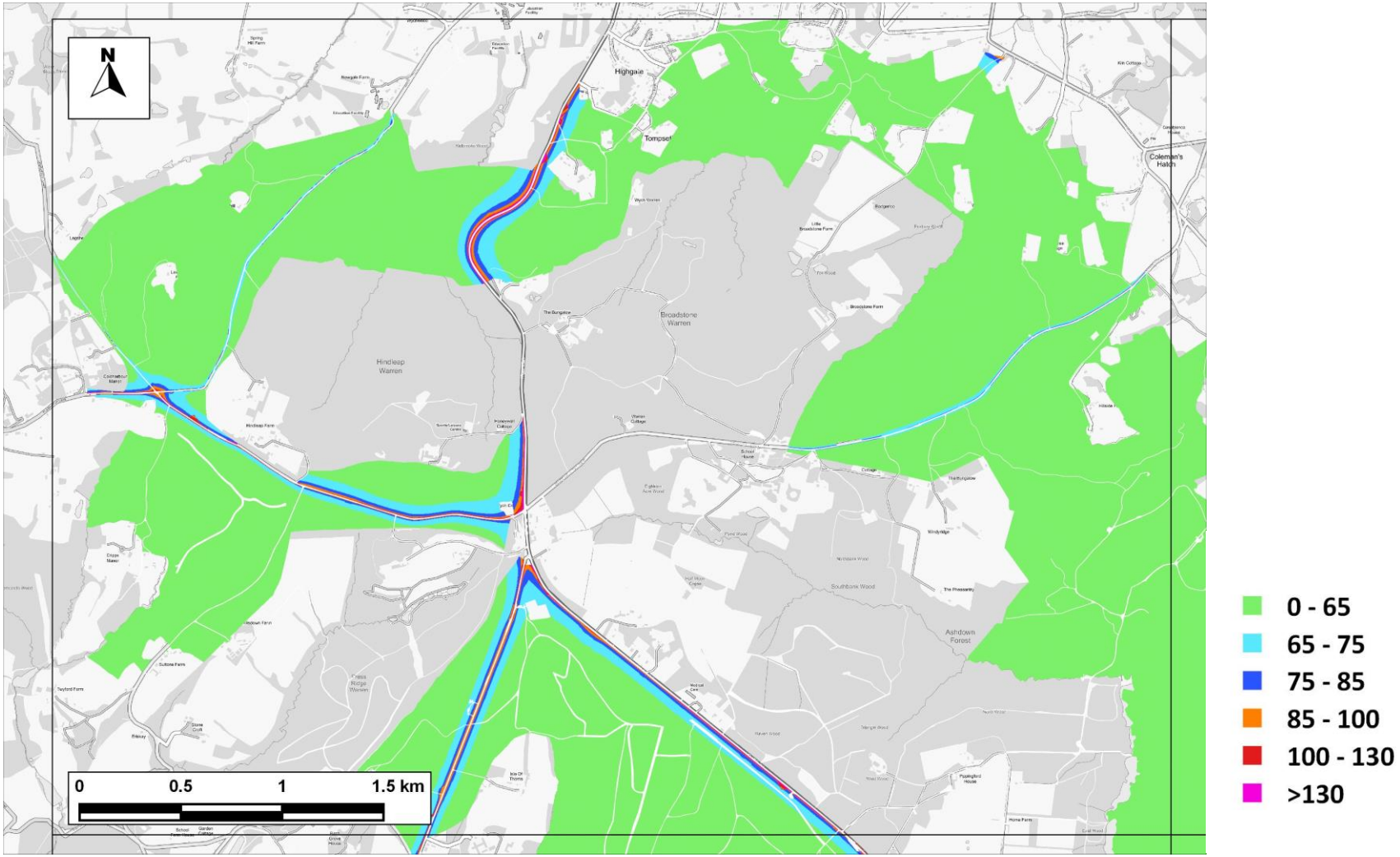


Figure A7.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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Figure A7.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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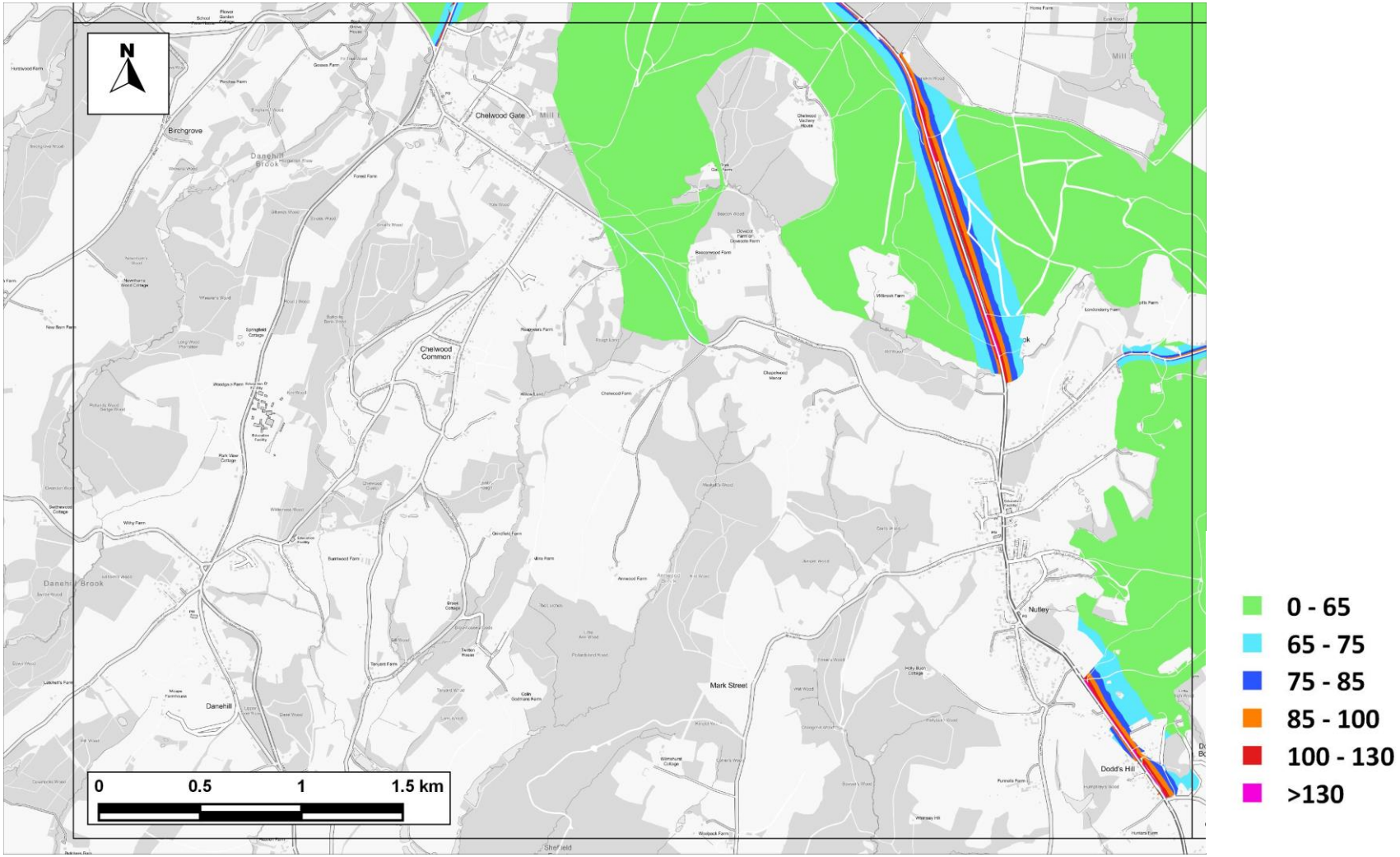


Figure A7.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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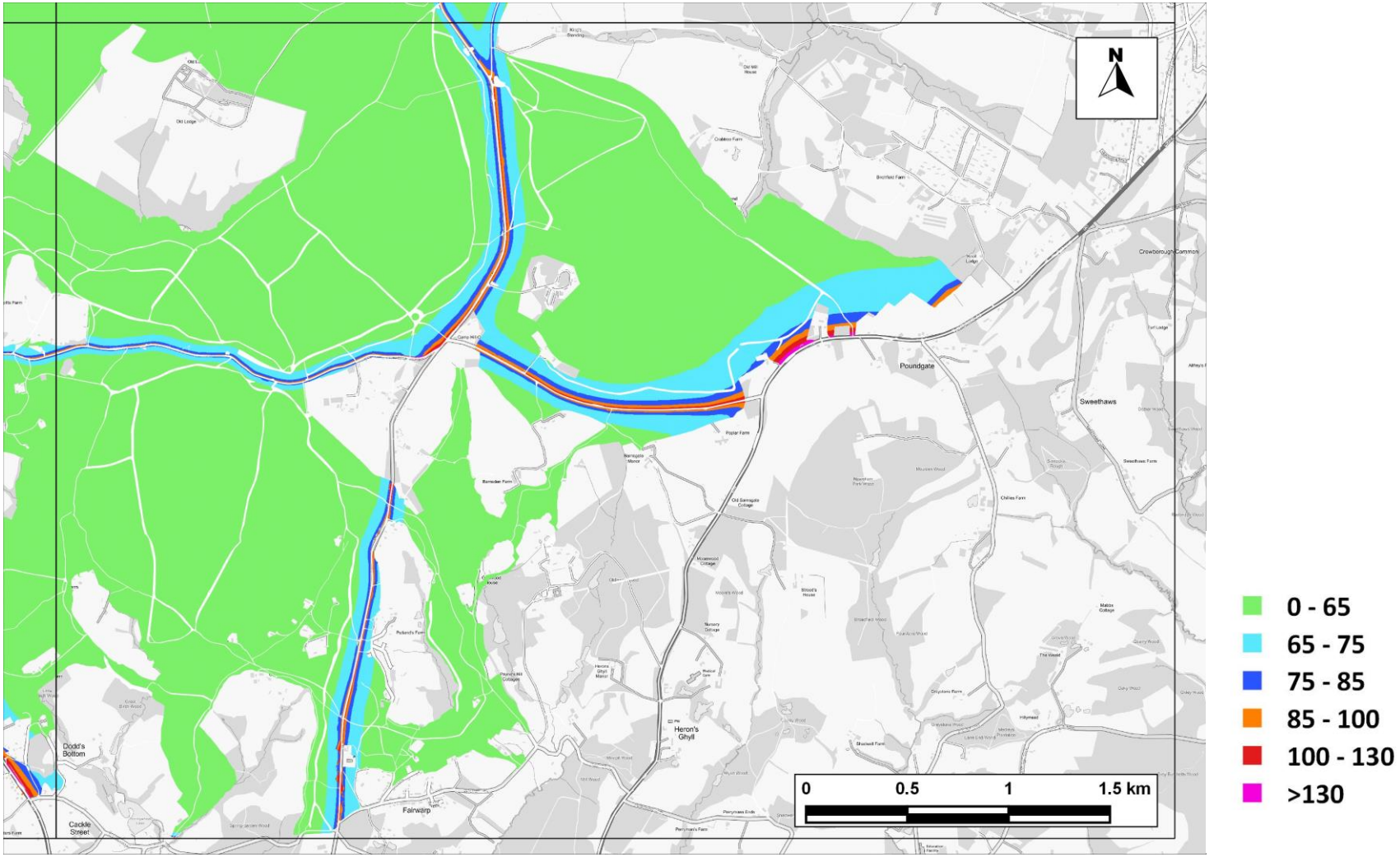


Figure A7.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - B)

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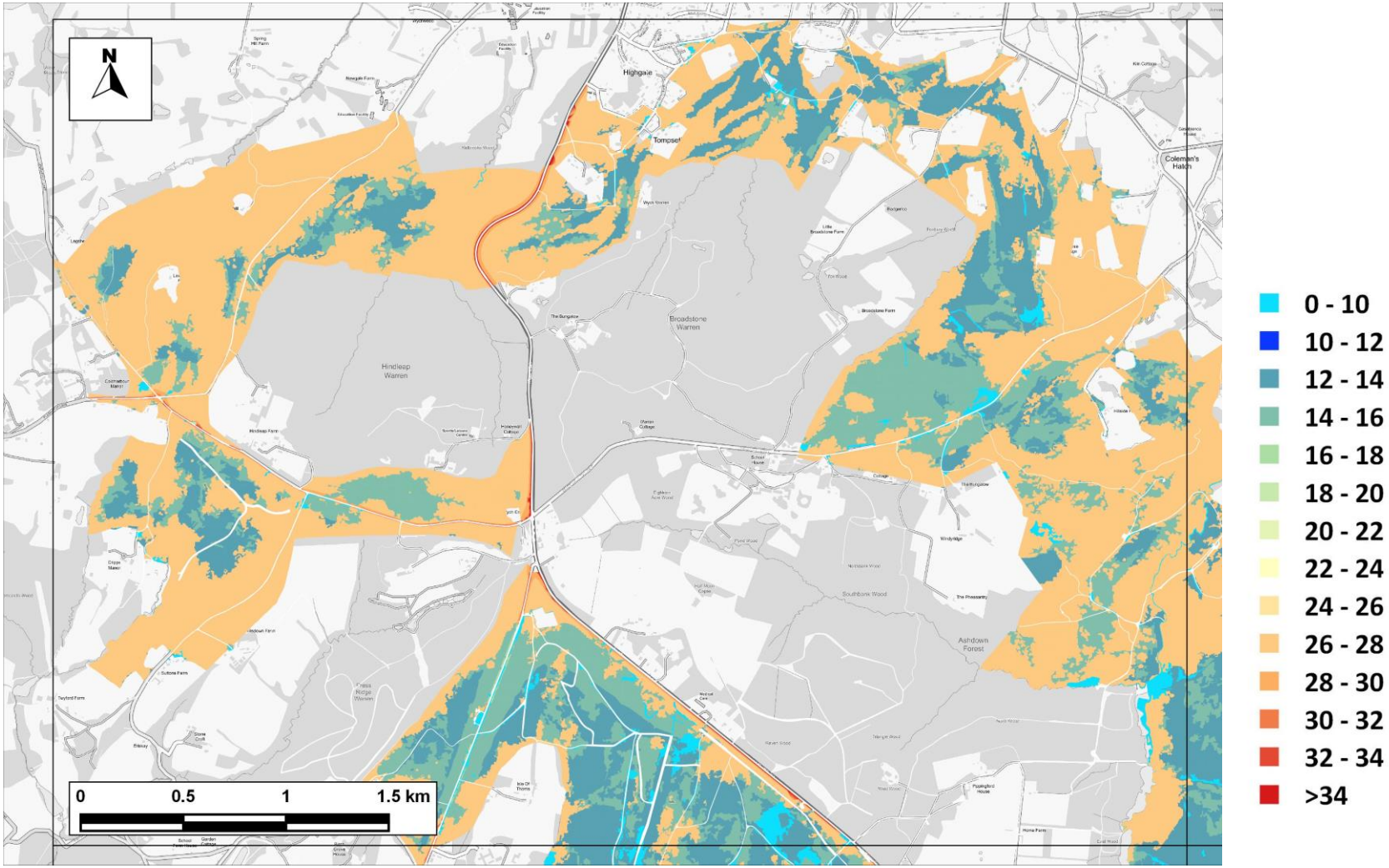


Figure A7.9: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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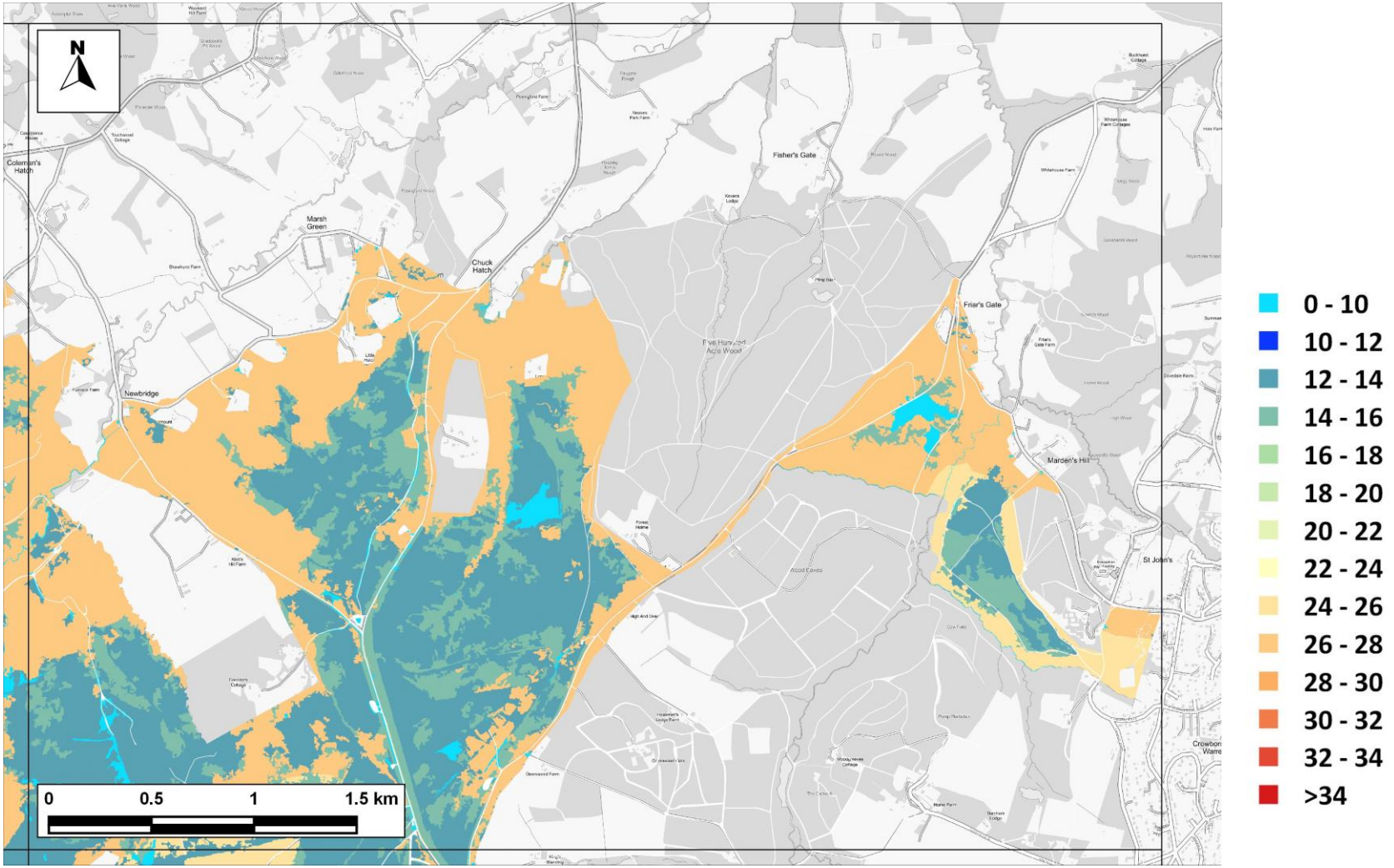


Figure A7.10: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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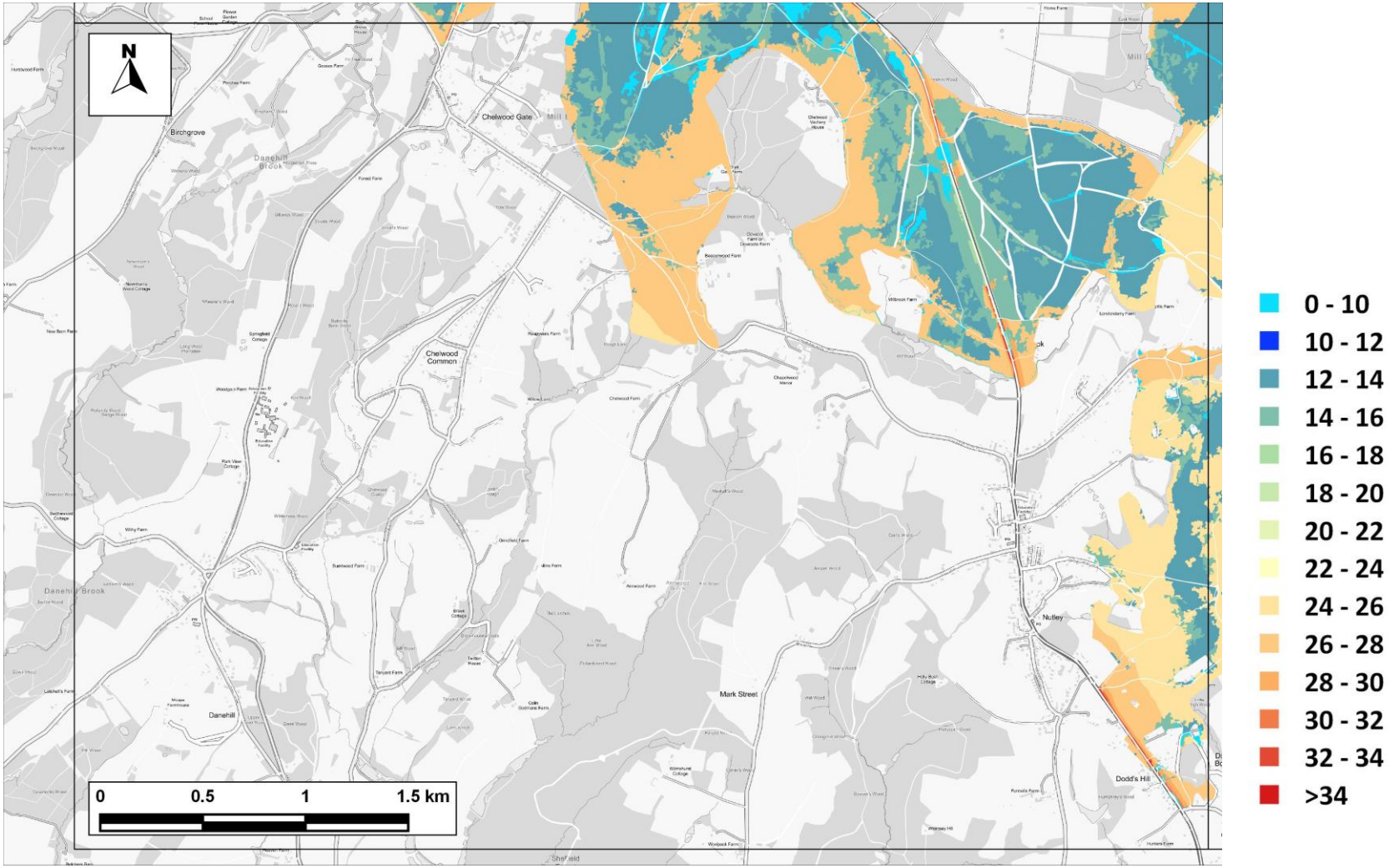


Figure A7.11: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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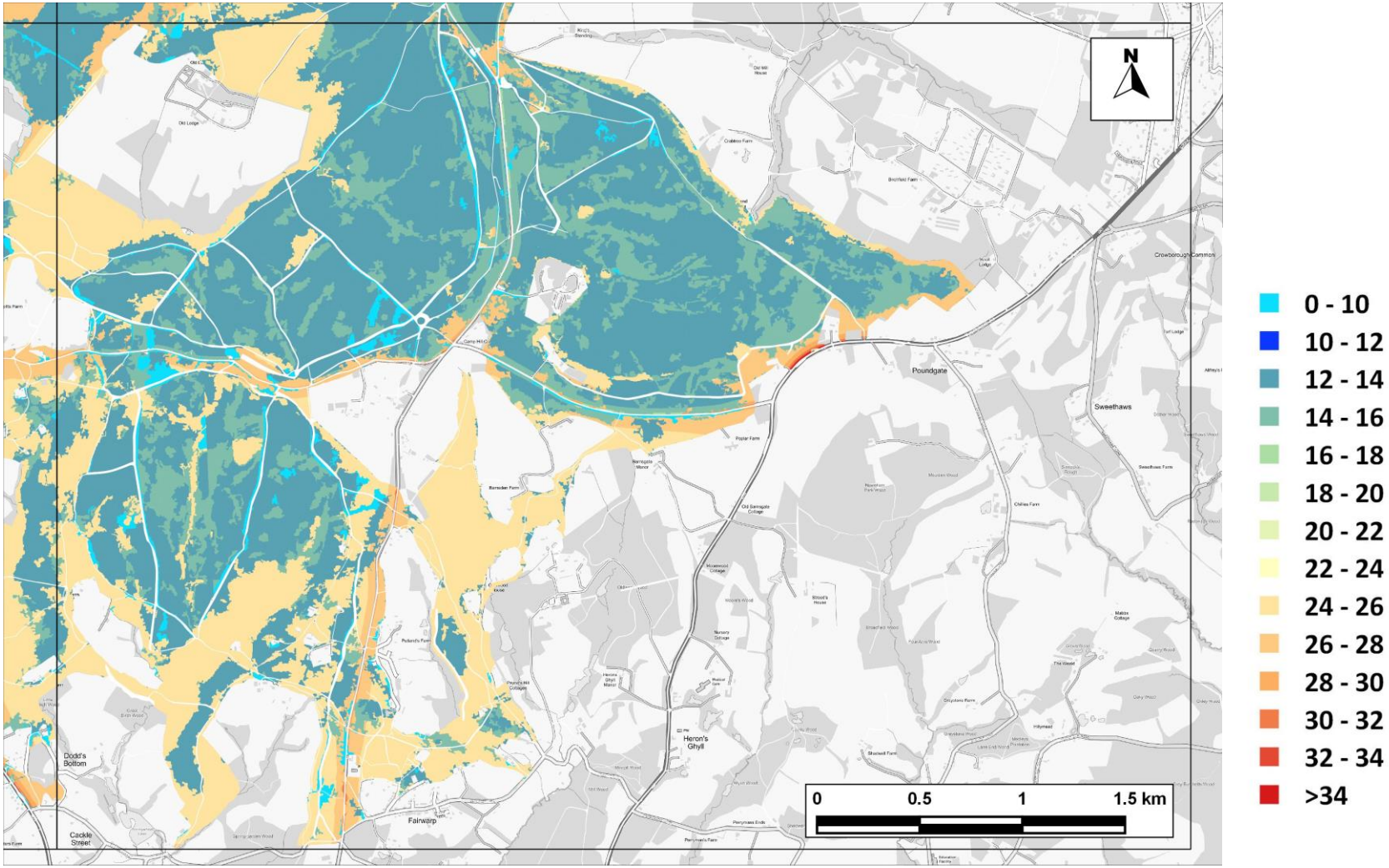


Figure A7.12: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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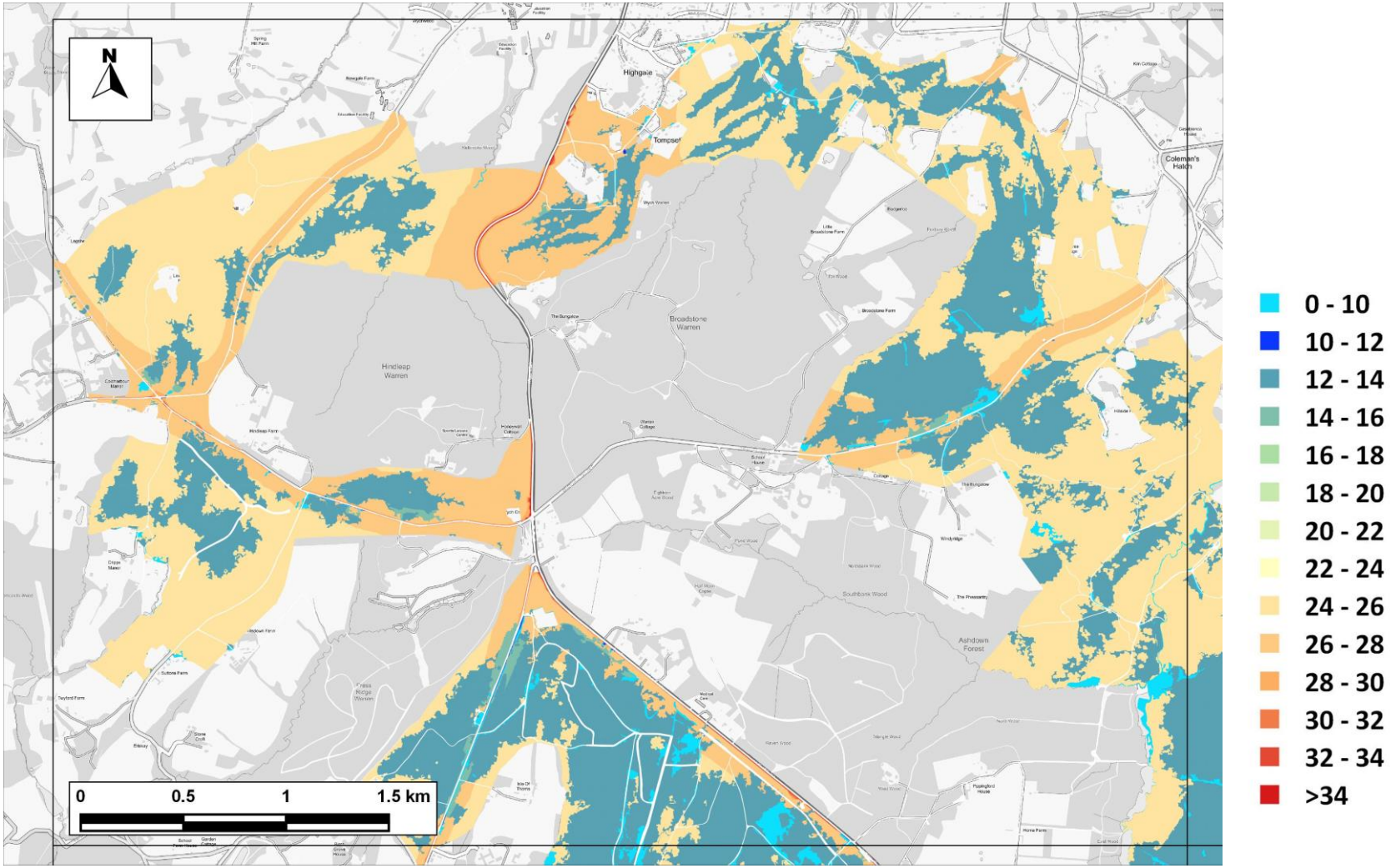


Figure A7.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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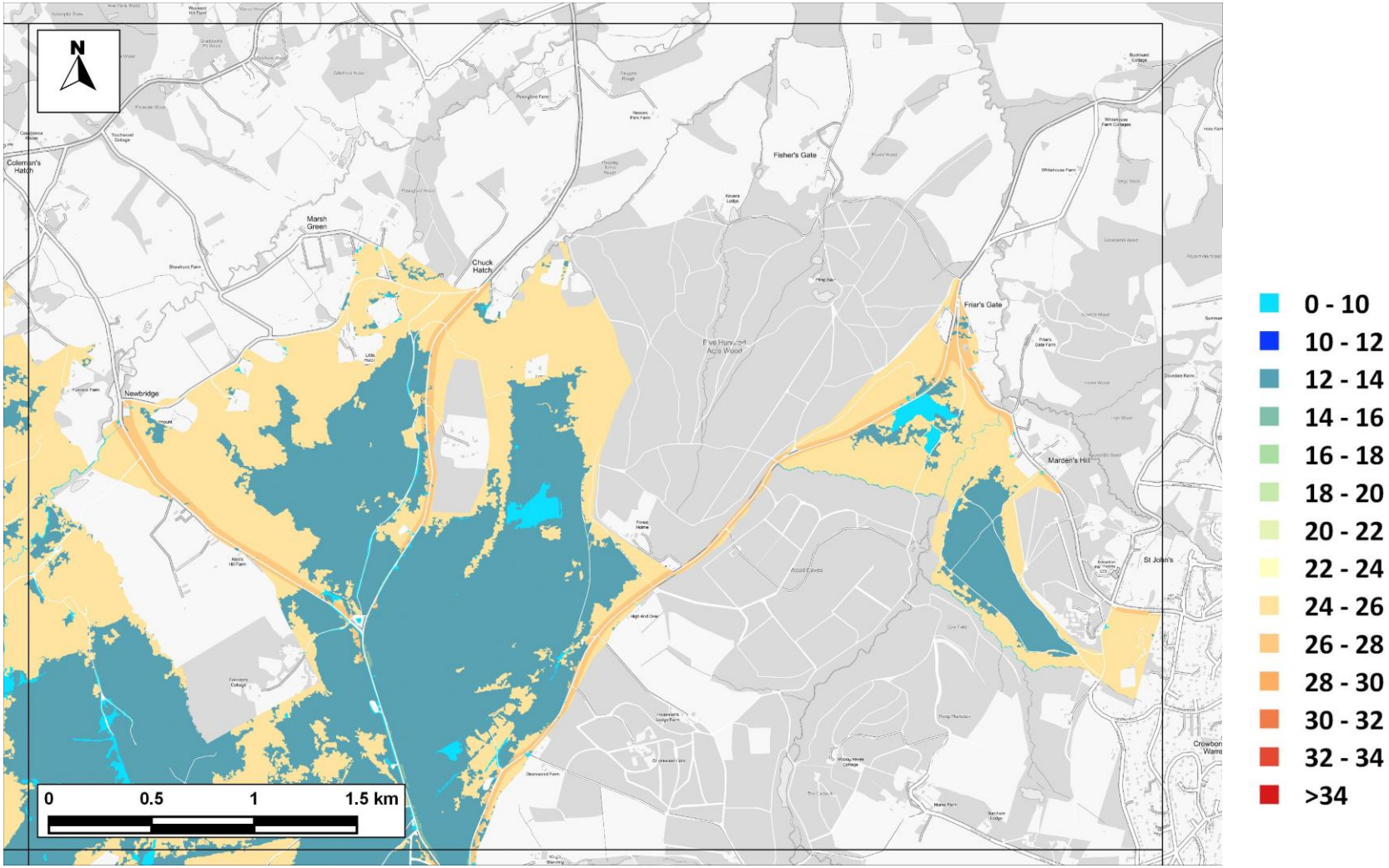


Figure A7.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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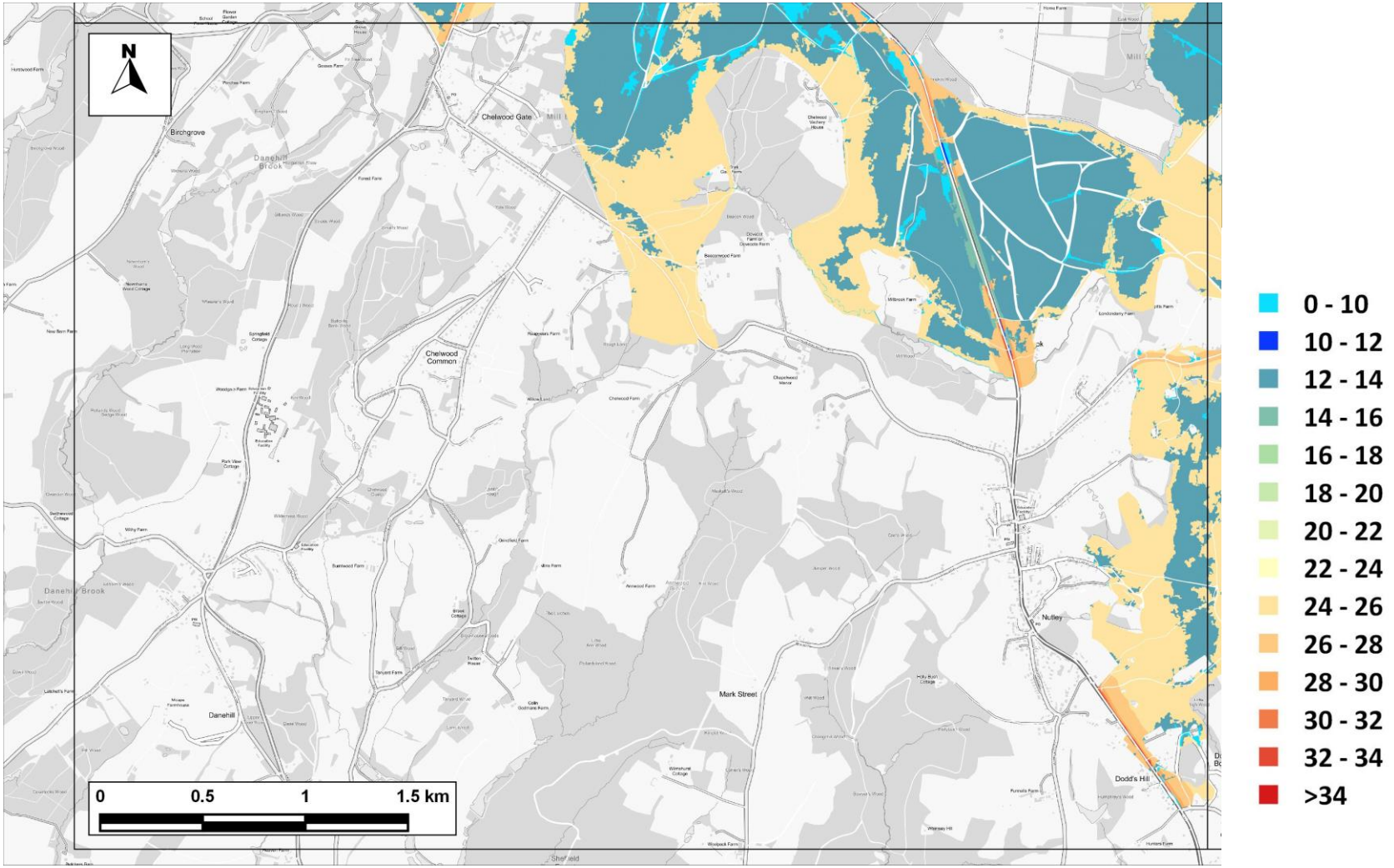


Figure A7.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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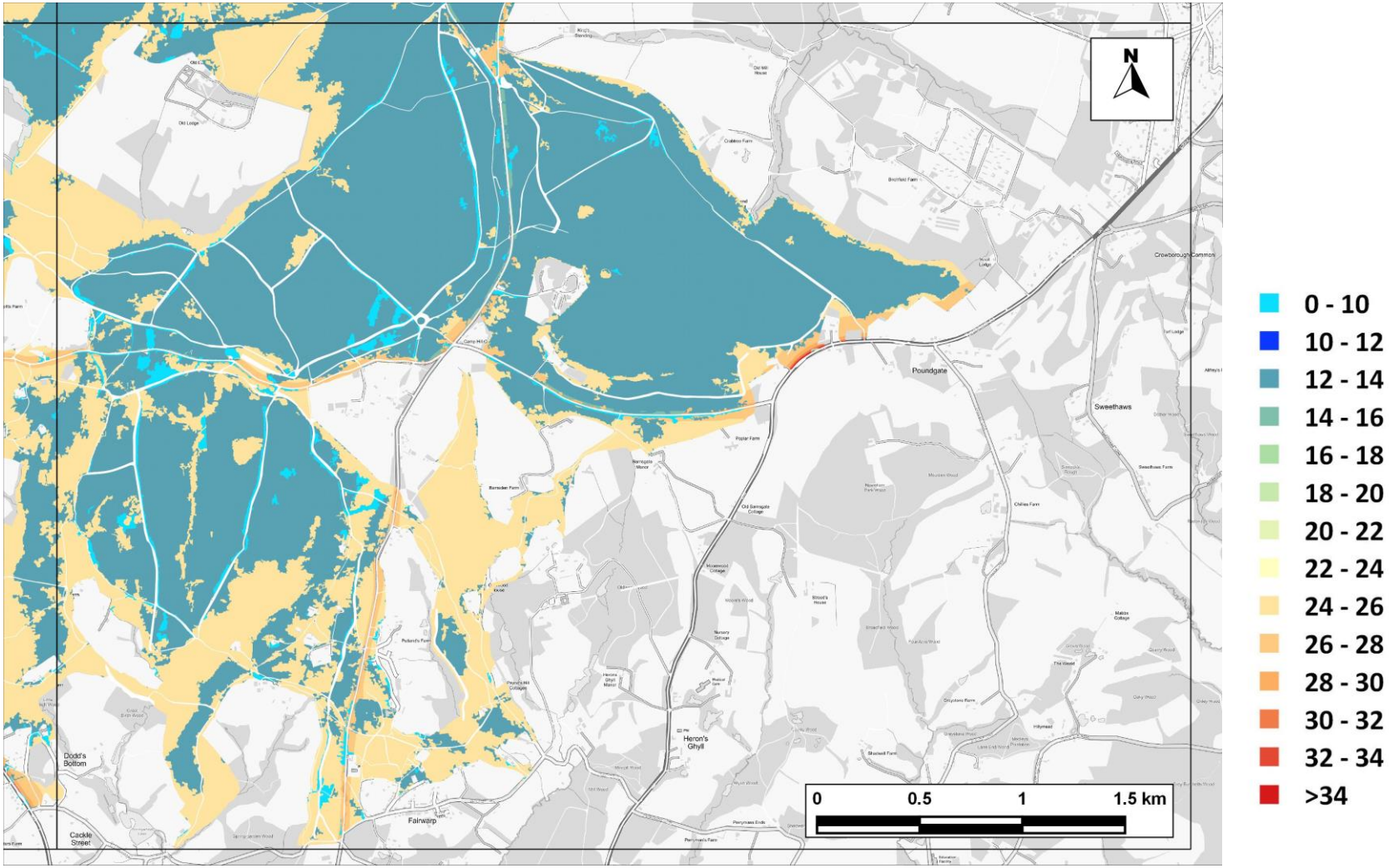


Figure A7.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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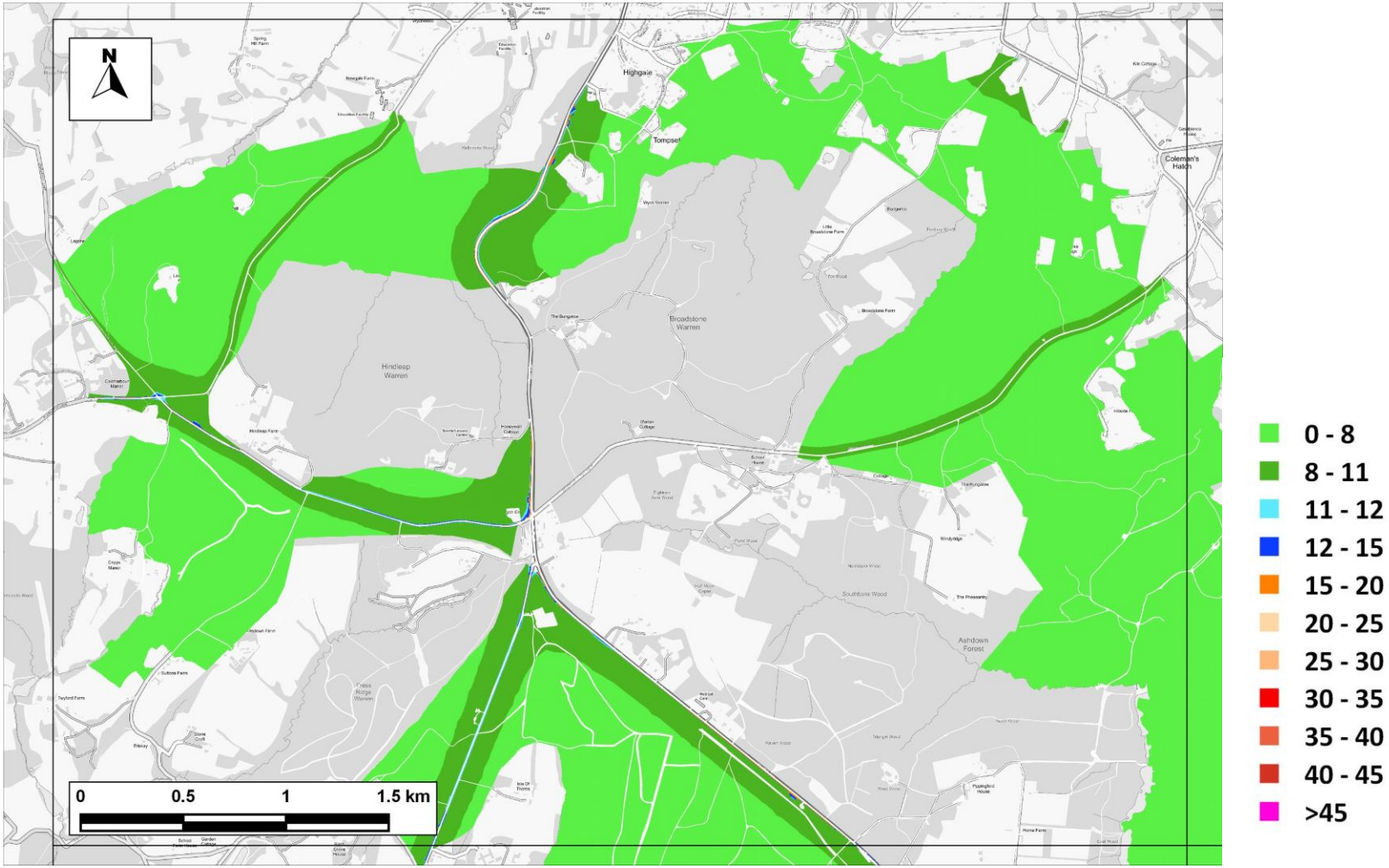


Figure A7.17: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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Figure A7.18: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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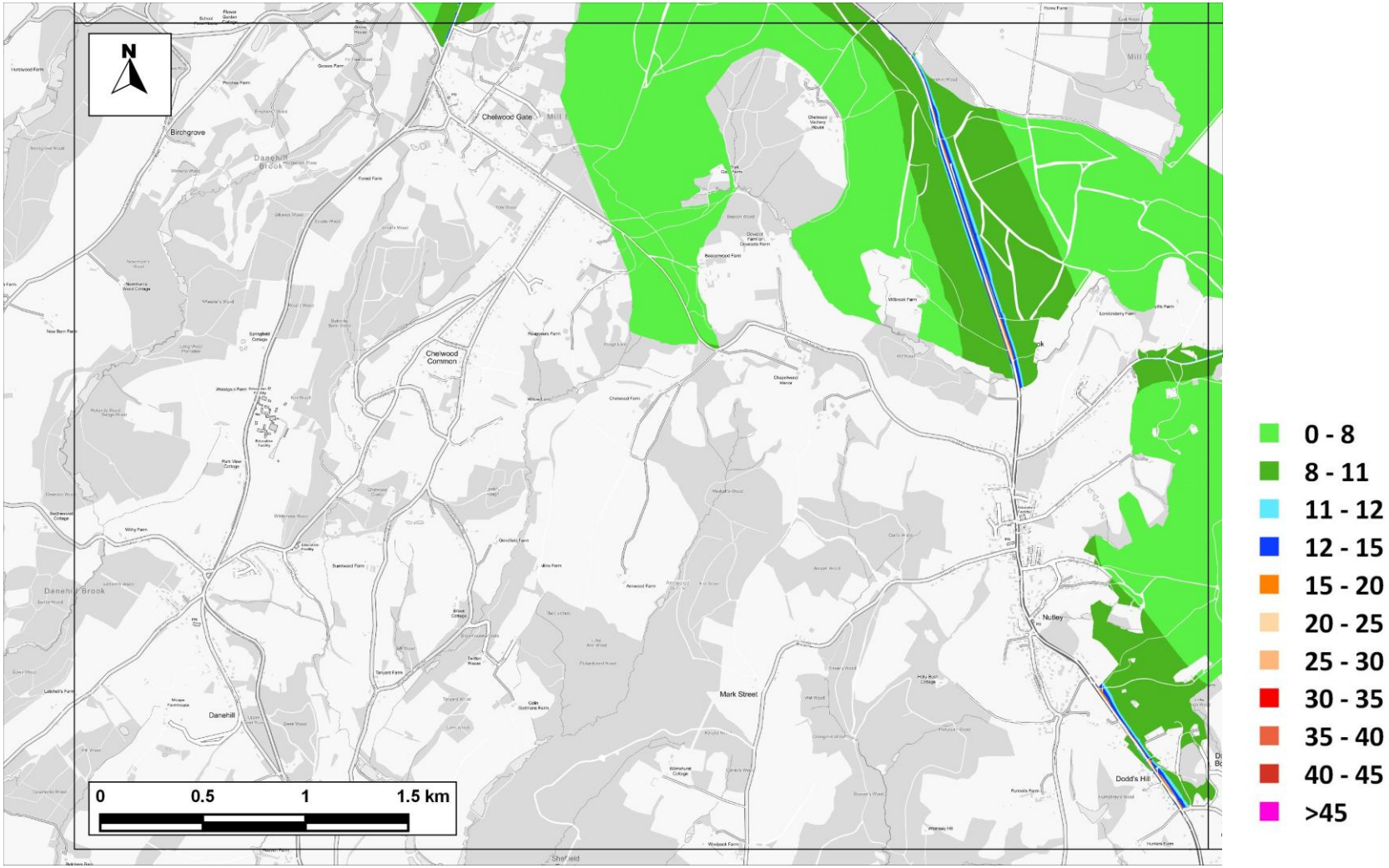


Figure A7.19: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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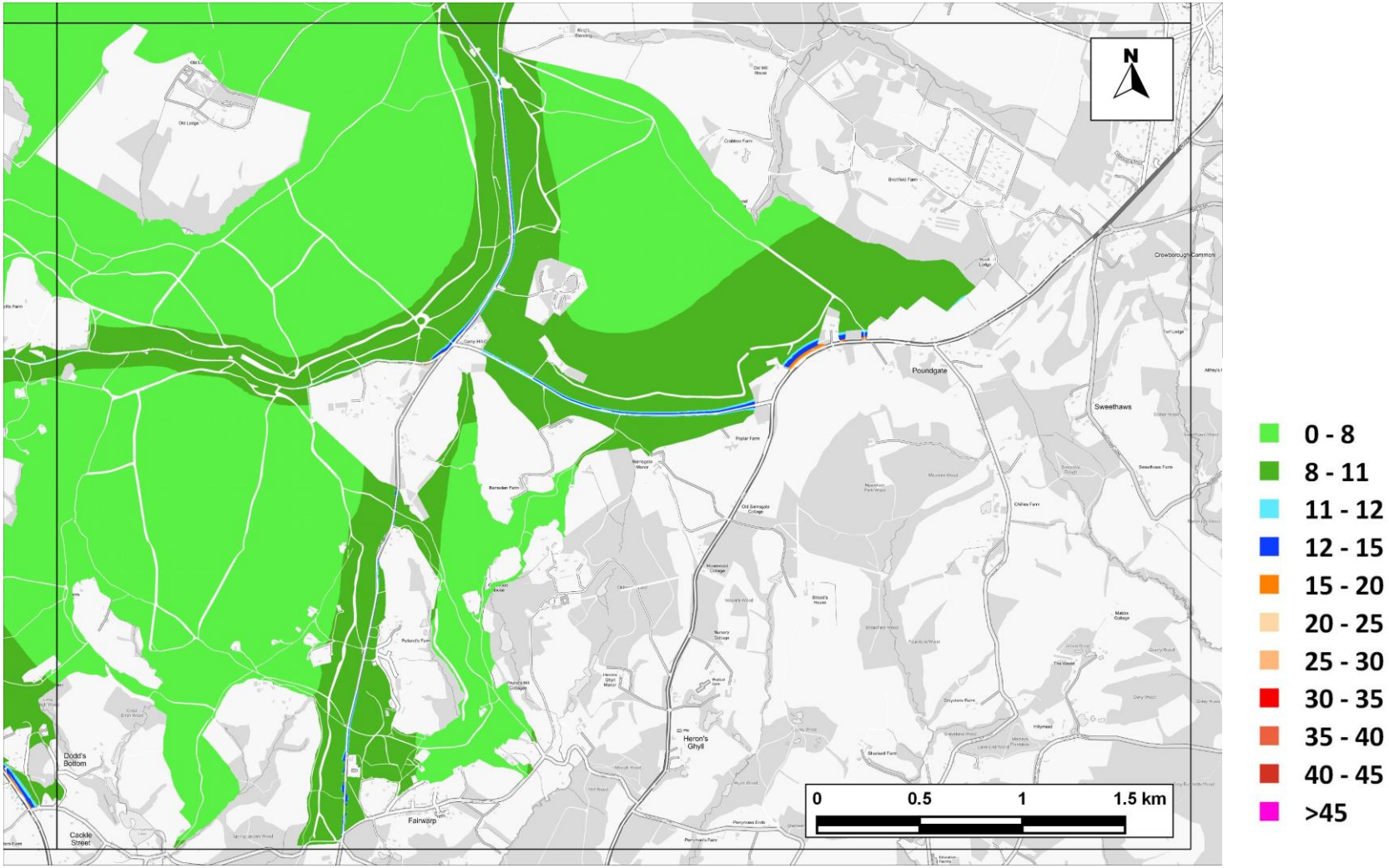


Figure A7.20: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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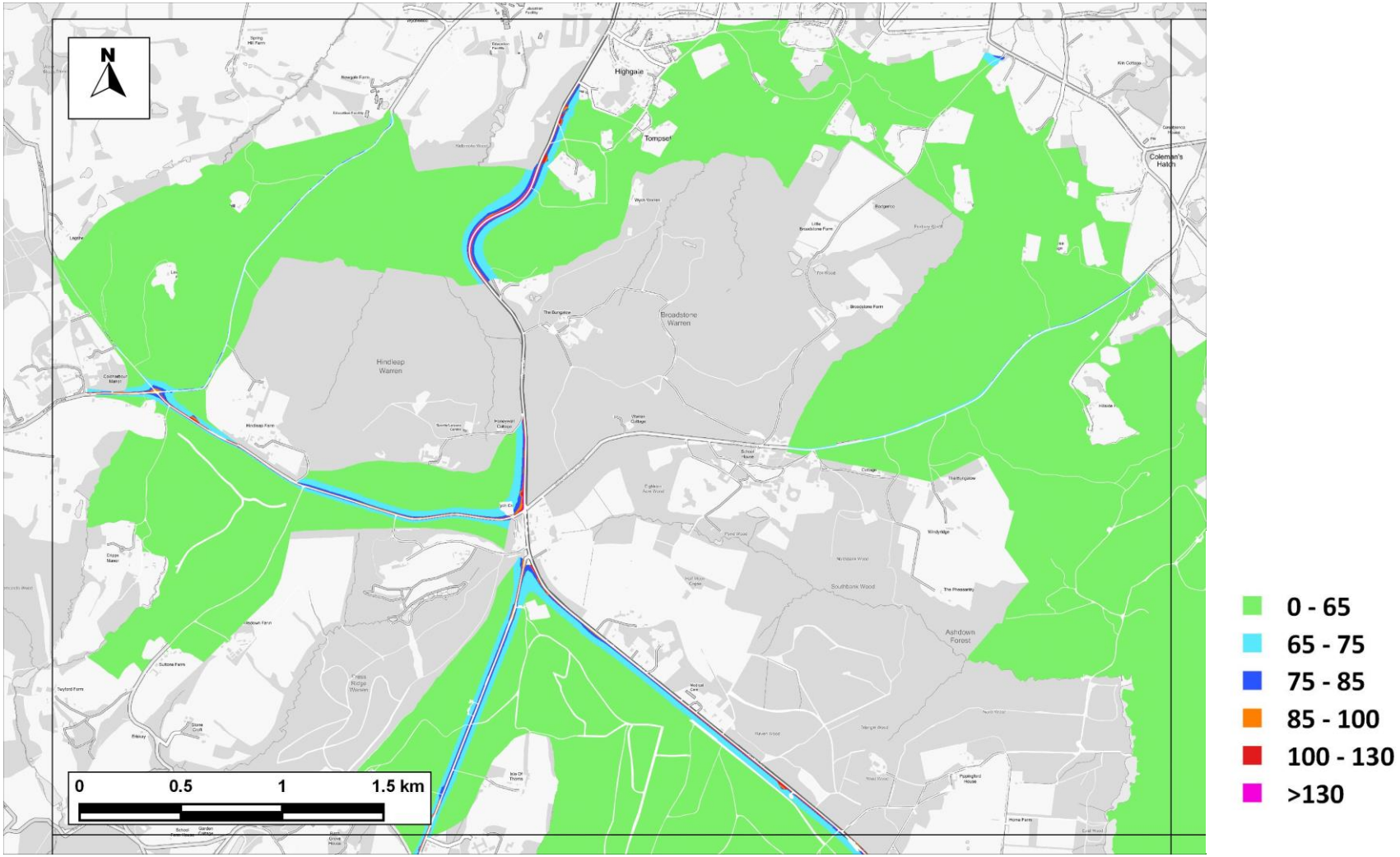


Figure A7.21: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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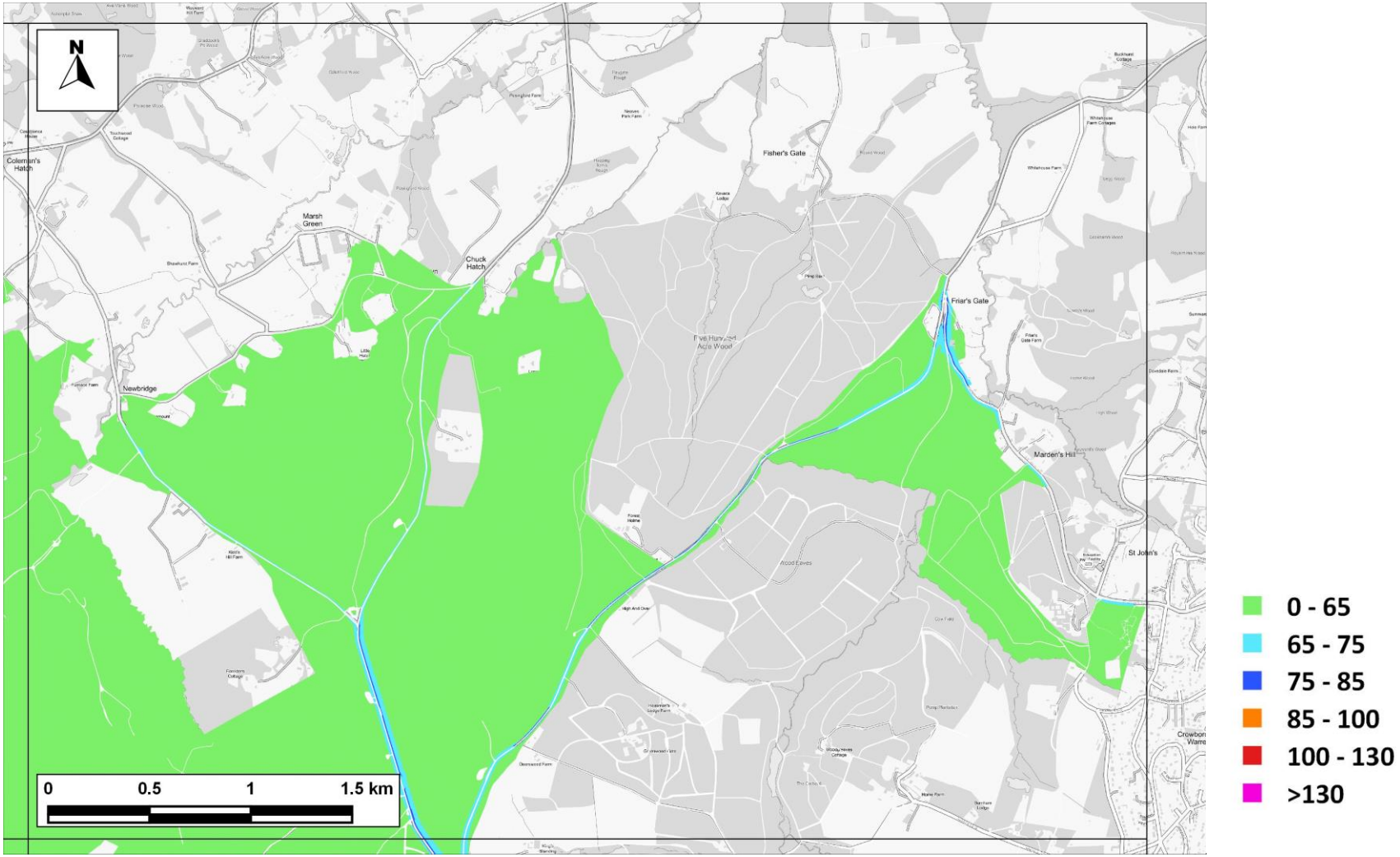


Figure A7.22: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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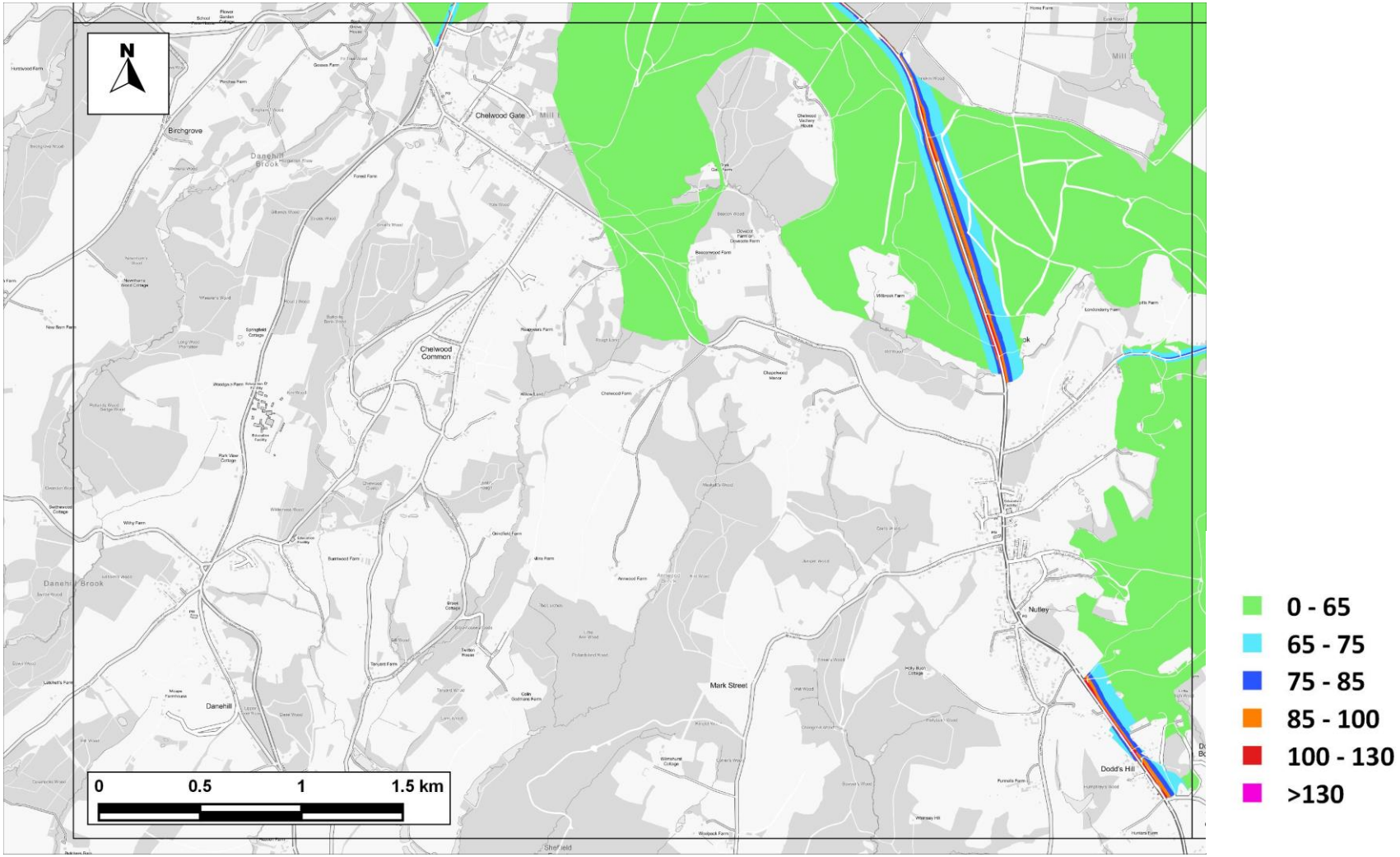


Figure A7.23: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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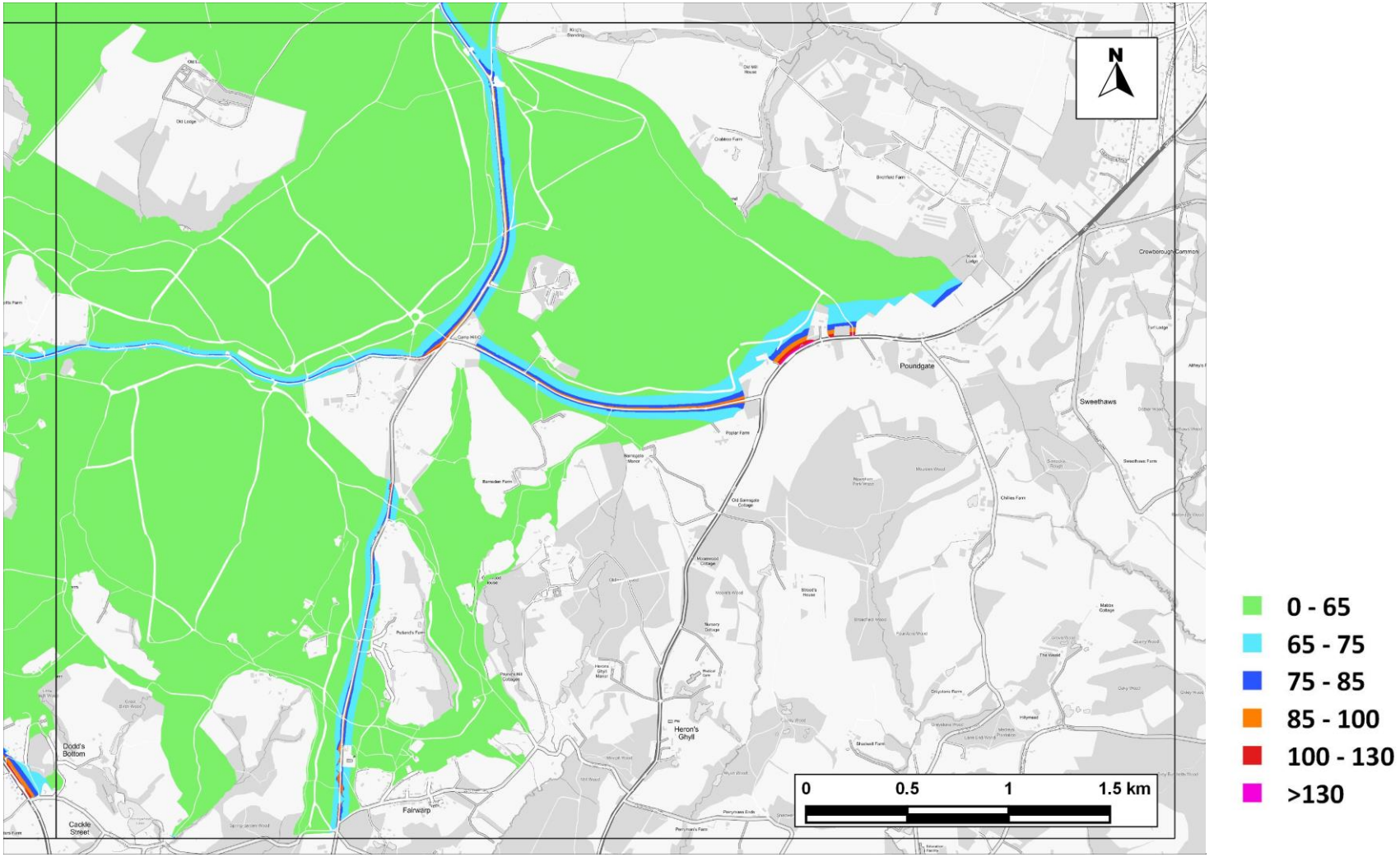


Figure A7.24: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No Growth (Emissions - C)

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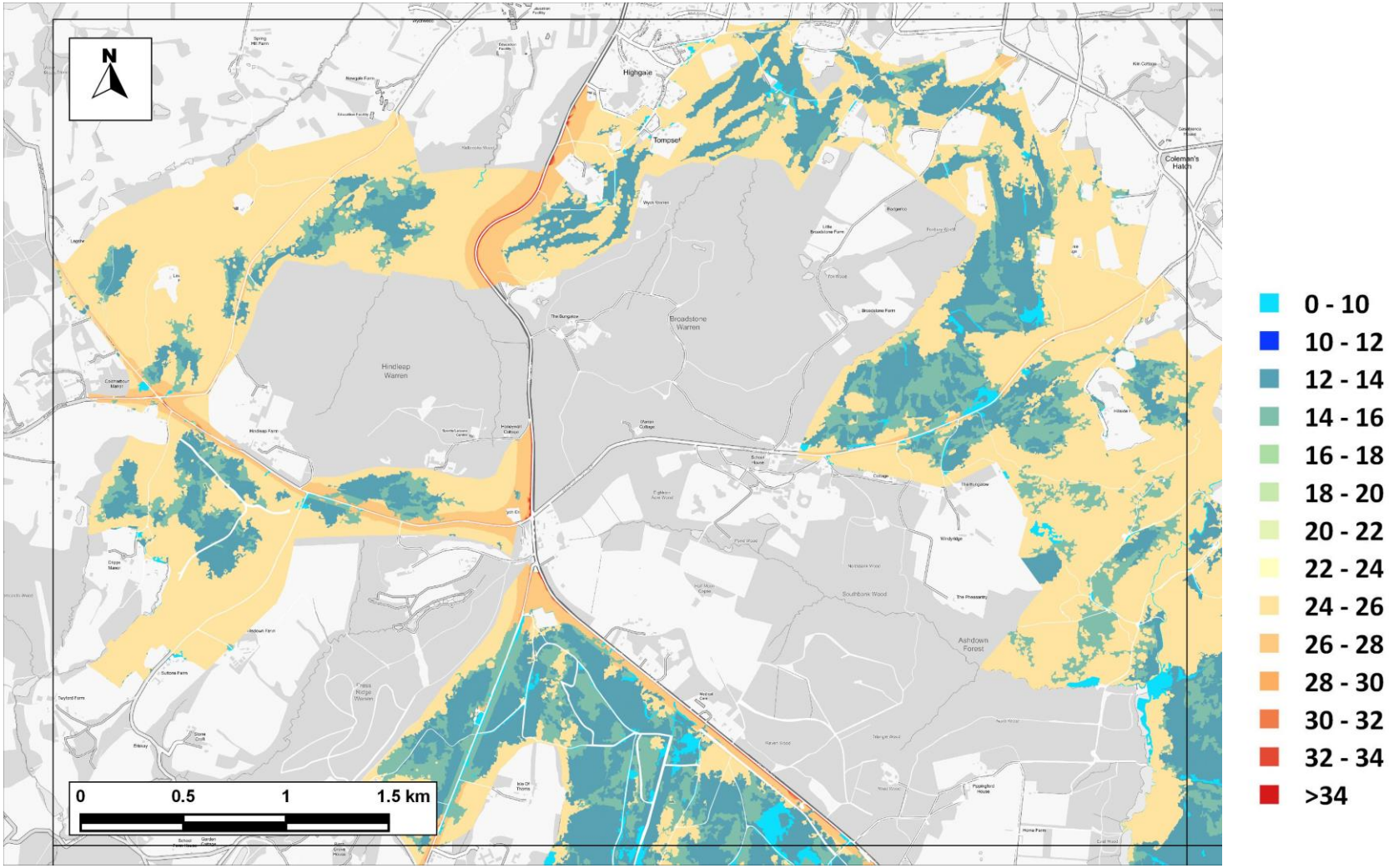


Figure A7.25: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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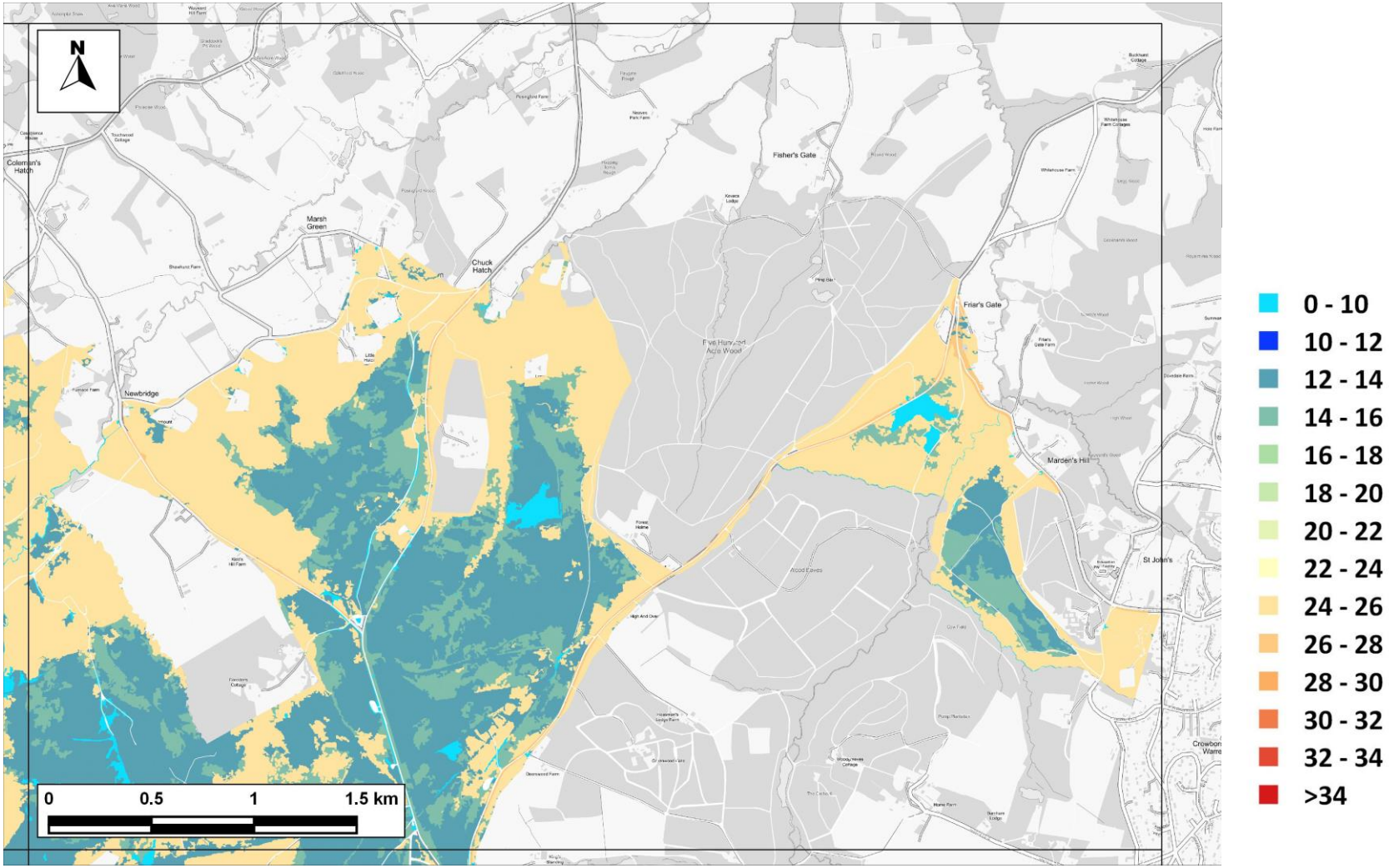


Figure A7.26: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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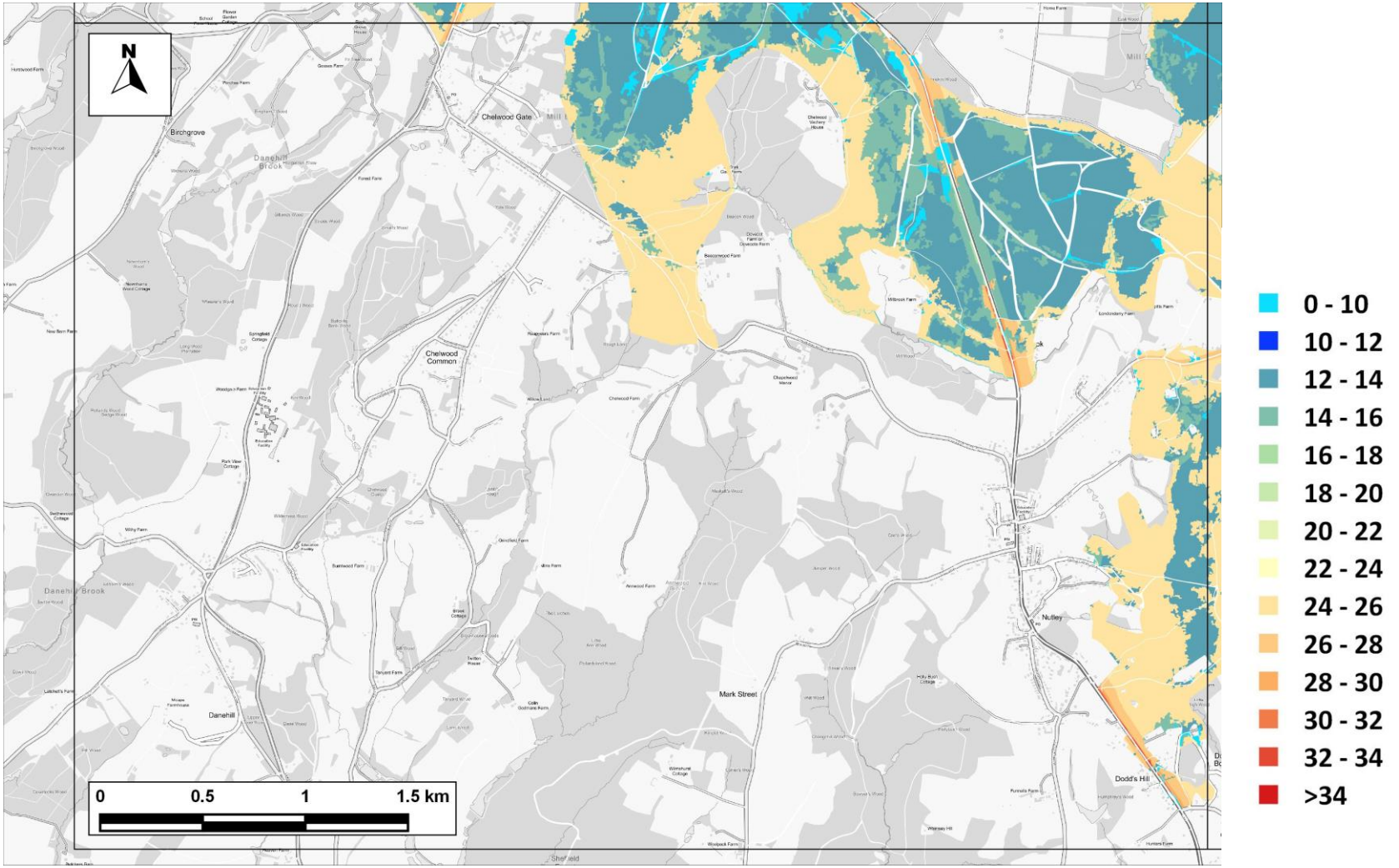


Figure A7.27: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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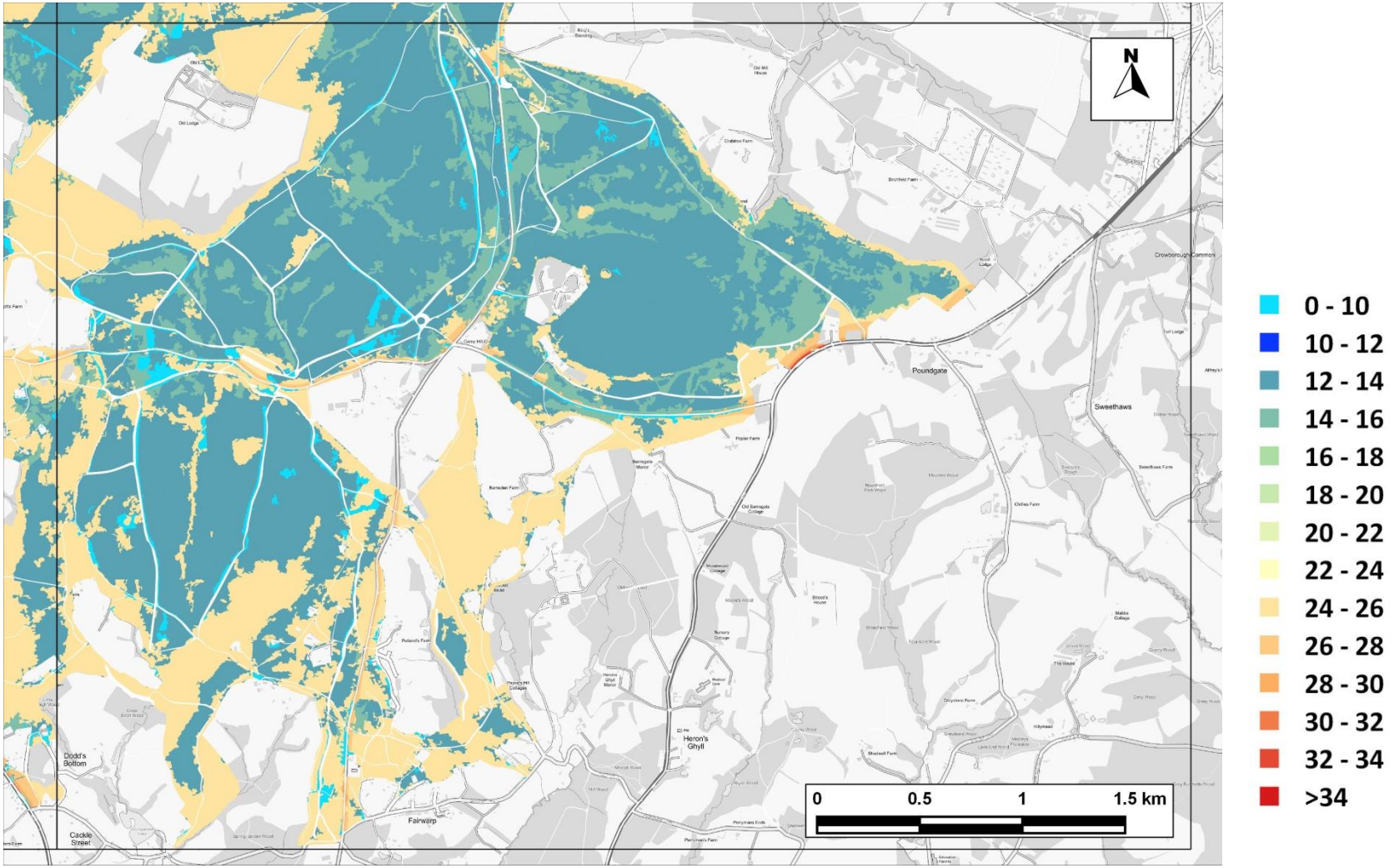


Figure A7.28: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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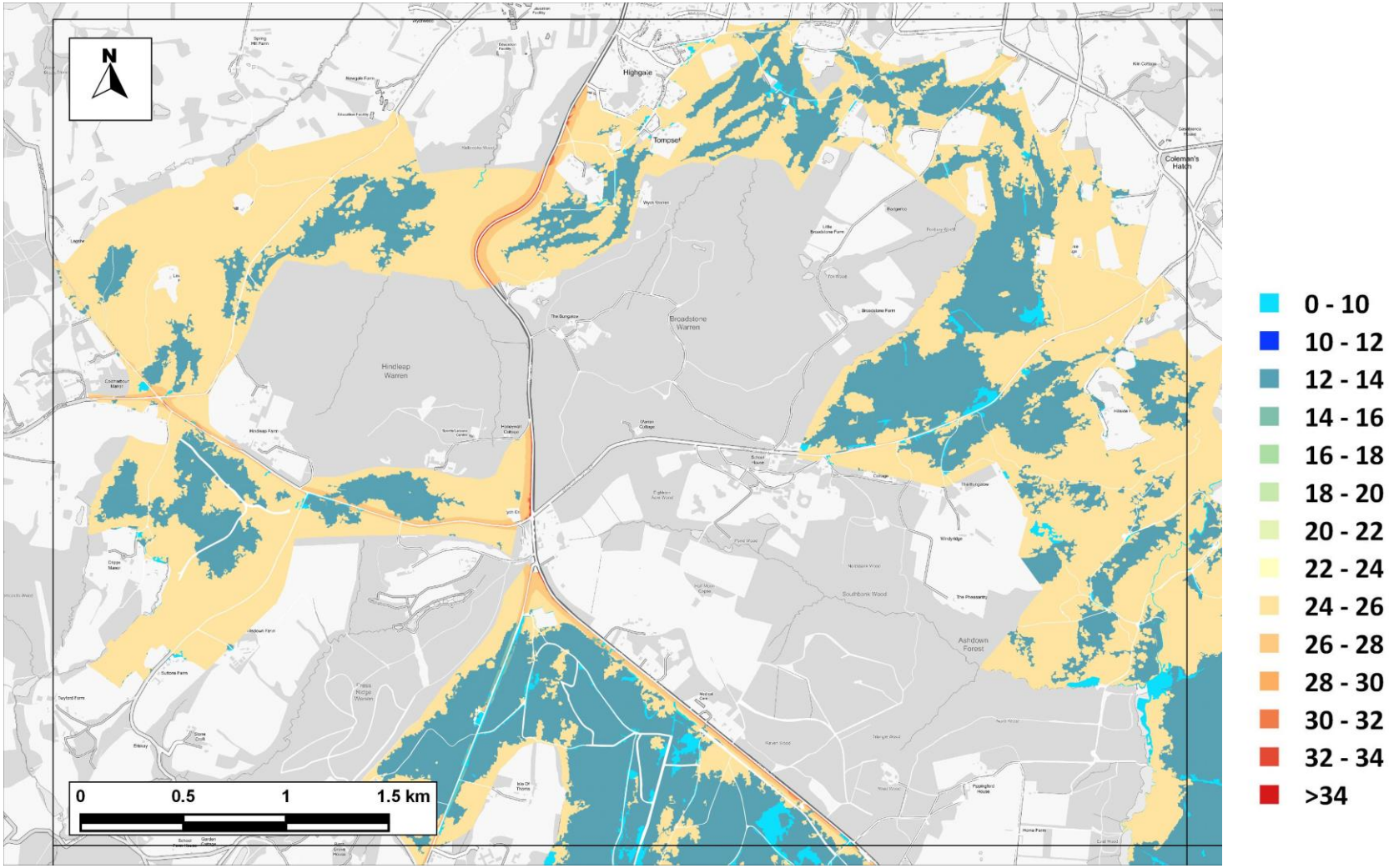


Figure A7.29: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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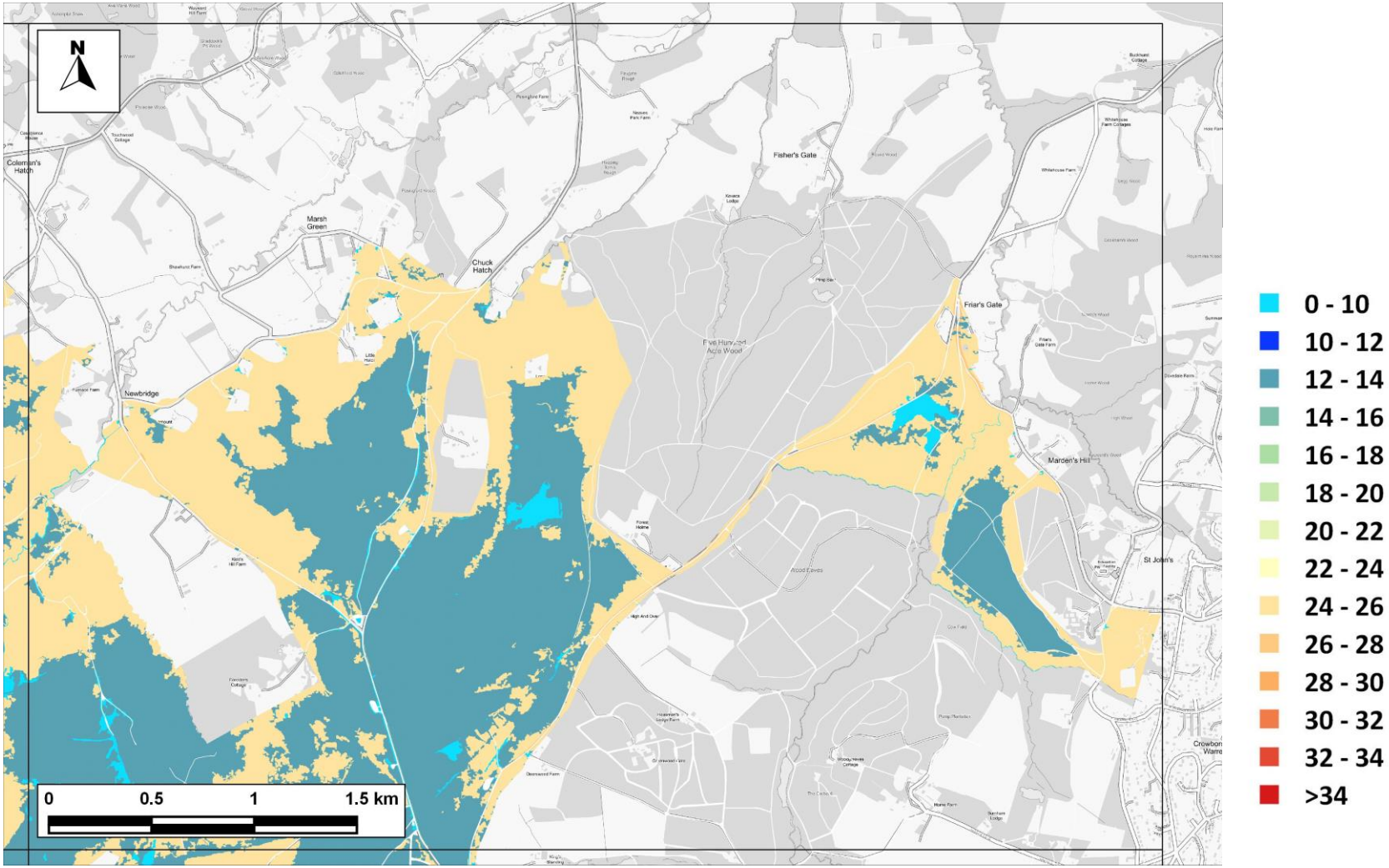


Figure A7.30: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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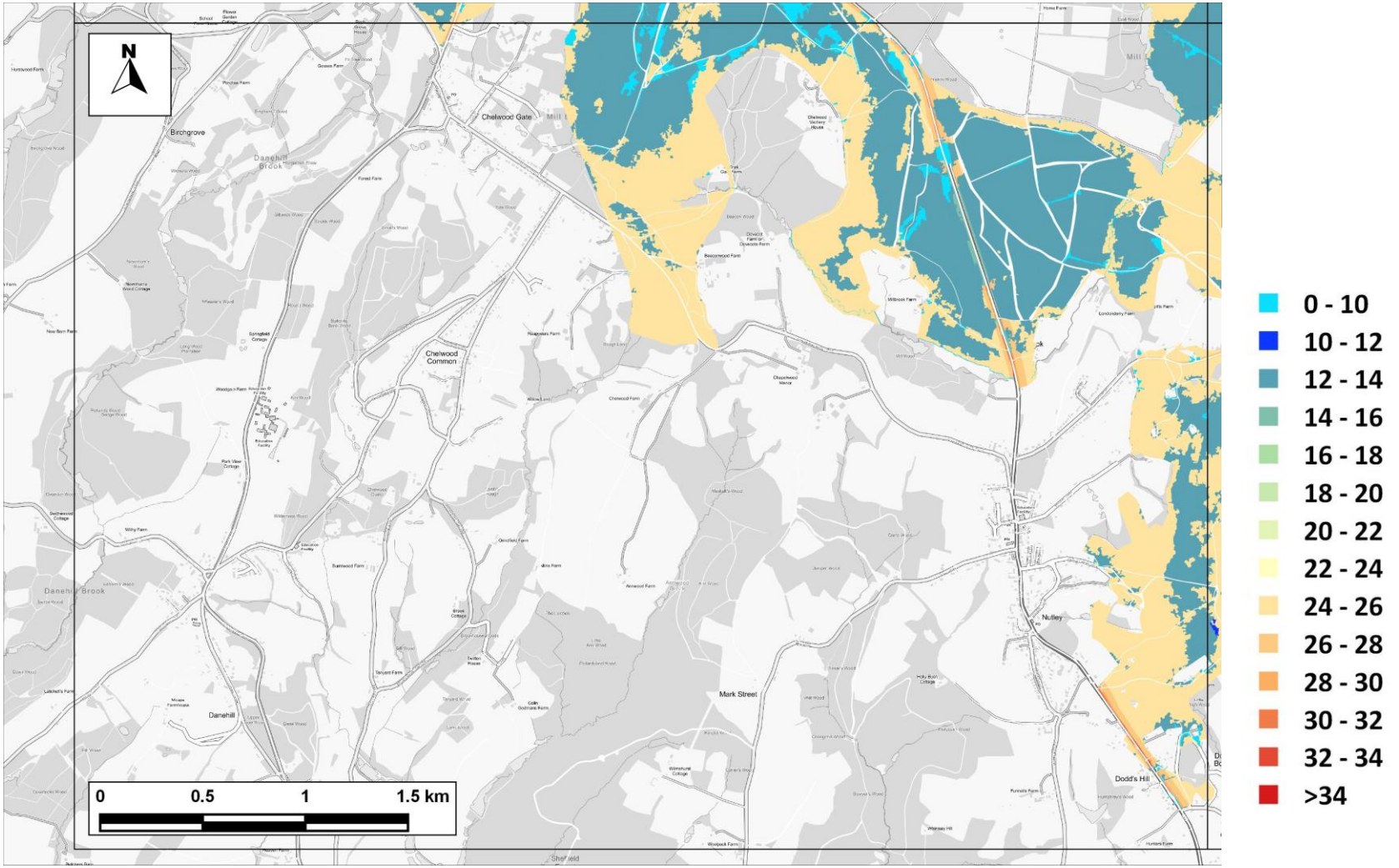


Figure A7.31: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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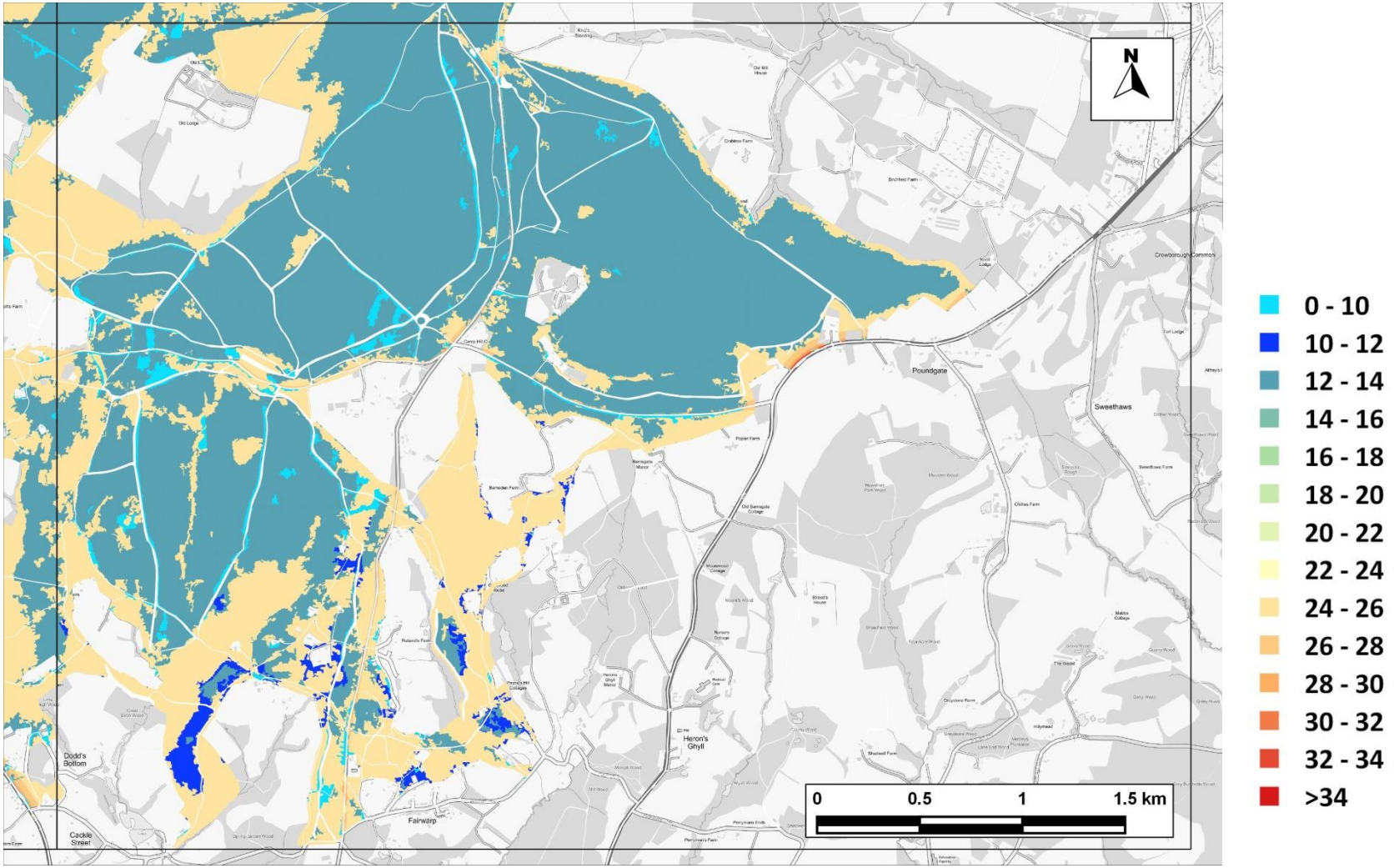


Figure A7.32: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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Appendix 8. Maps of 2028 No WDC-Growth Model Results

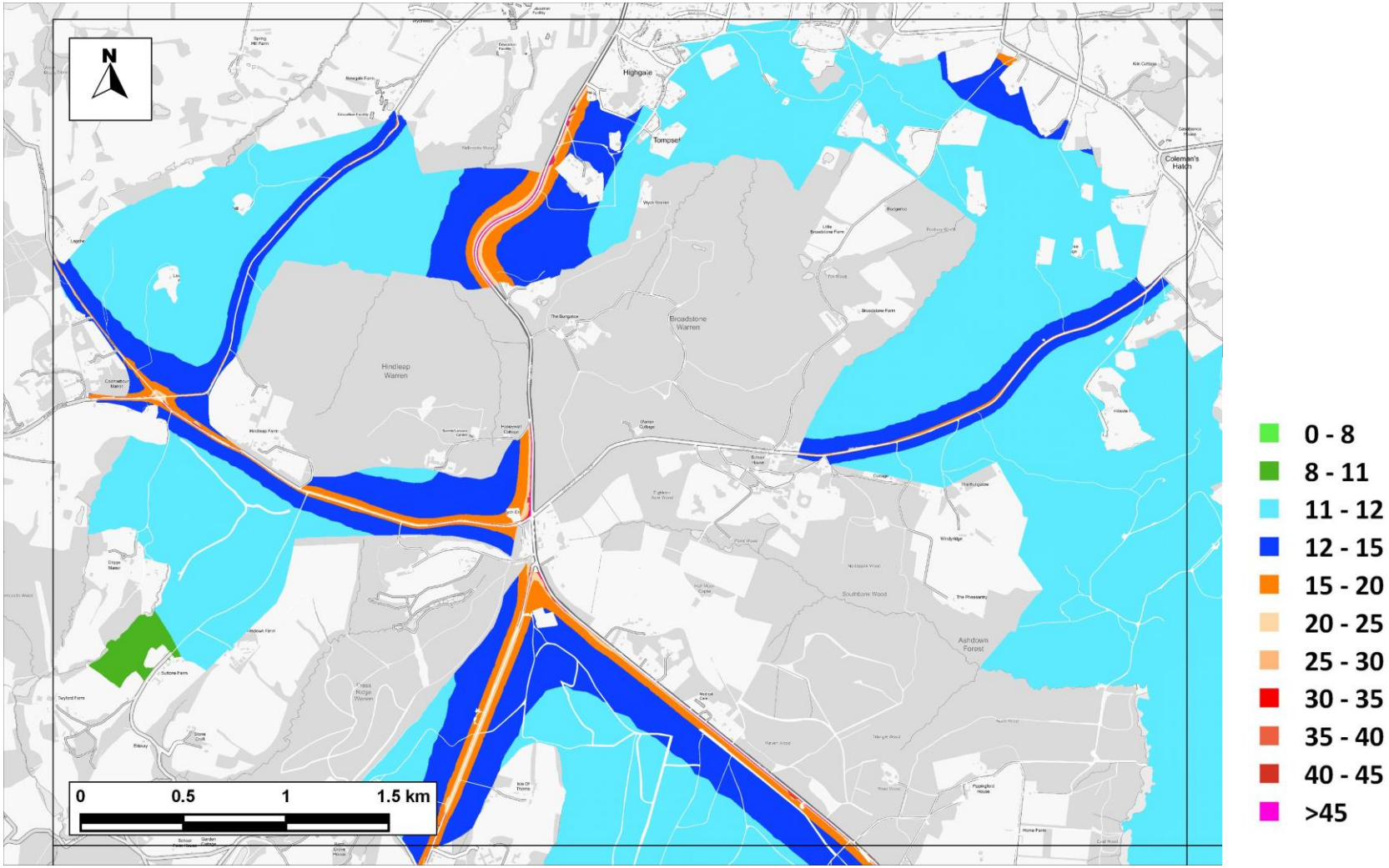


Figure A8.1: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions – A)

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Figure A8.2: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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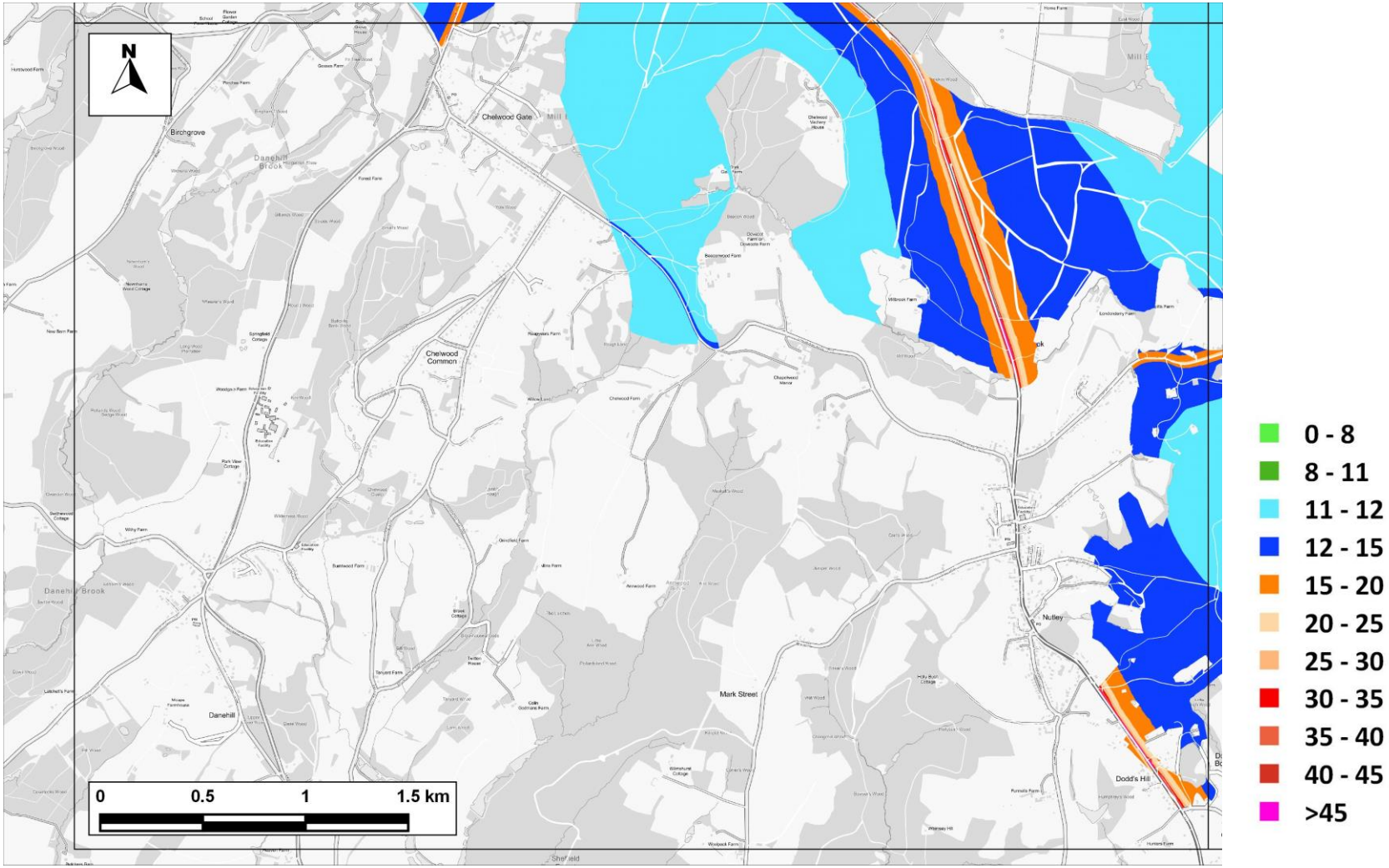


Figure A8.3: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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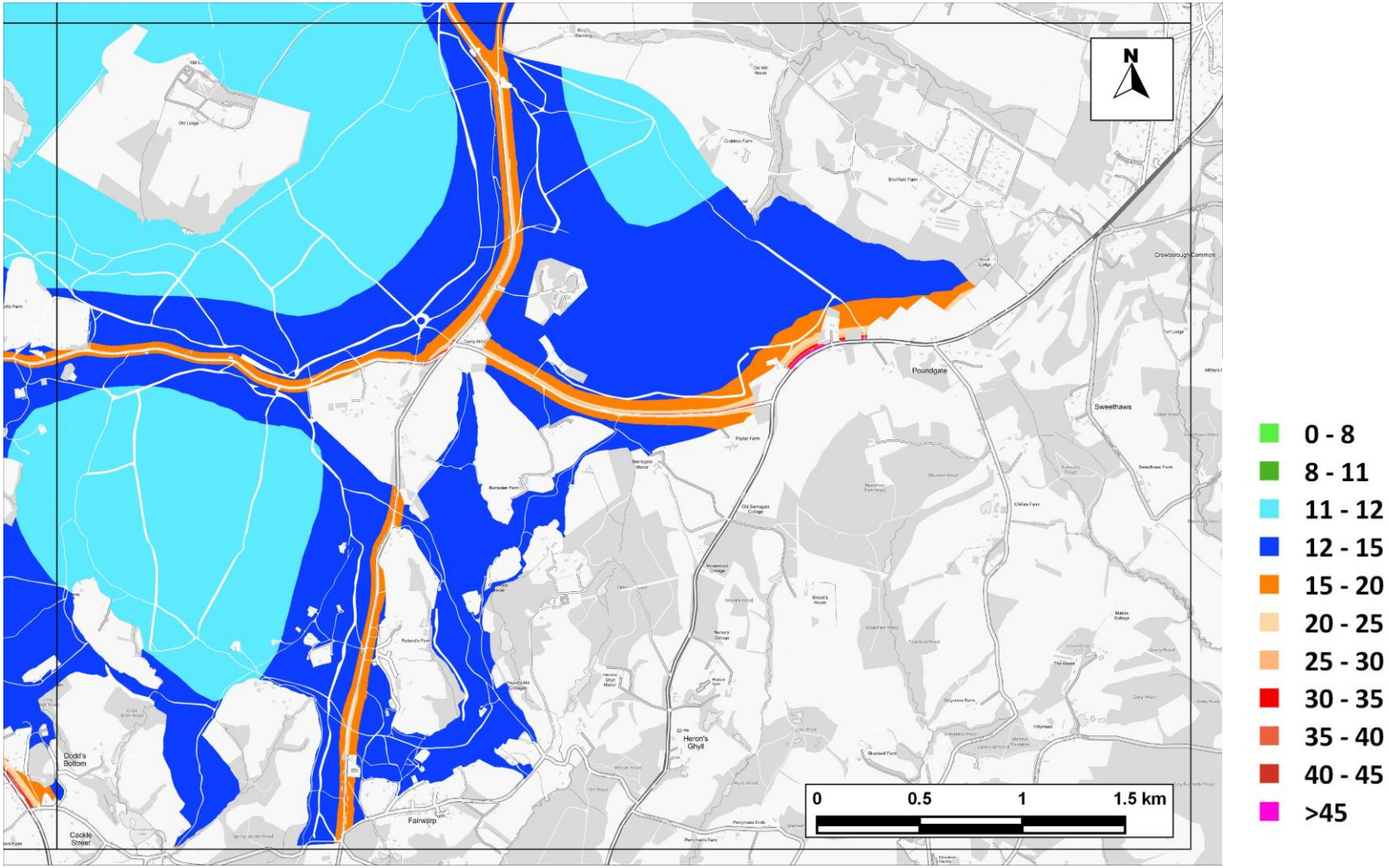


Figure A8.4: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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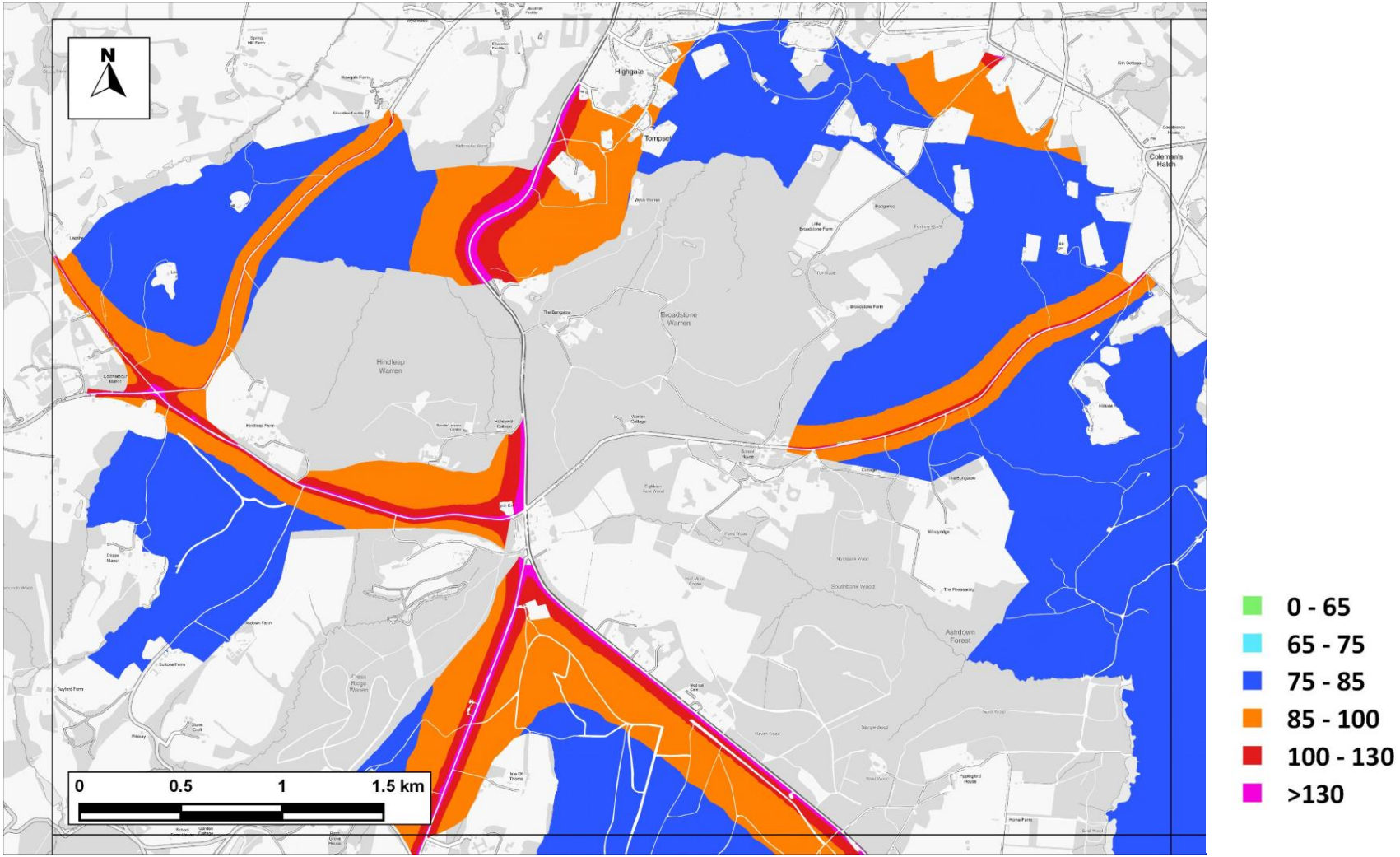


Figure A8.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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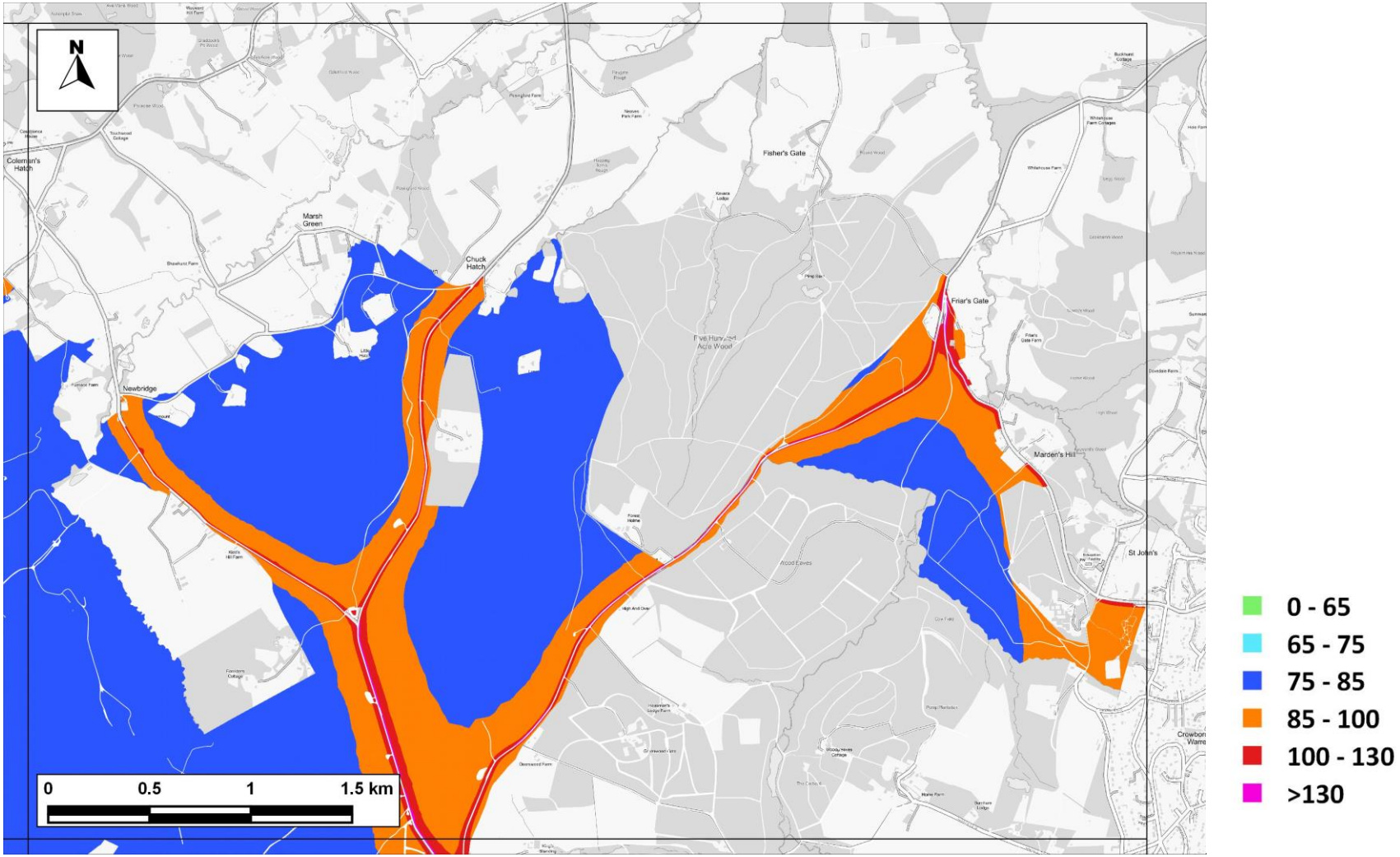


Figure A8.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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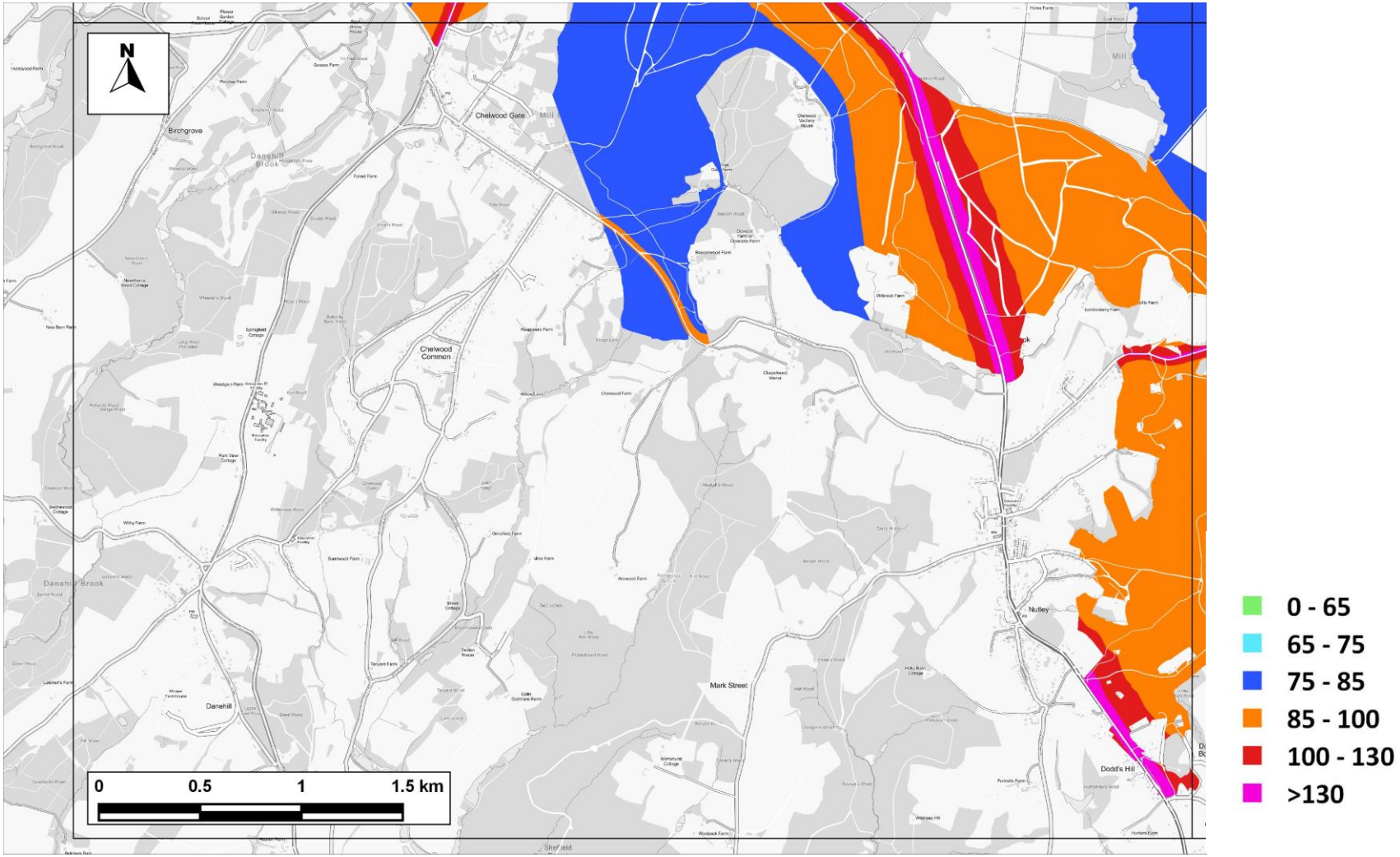


Figure A8.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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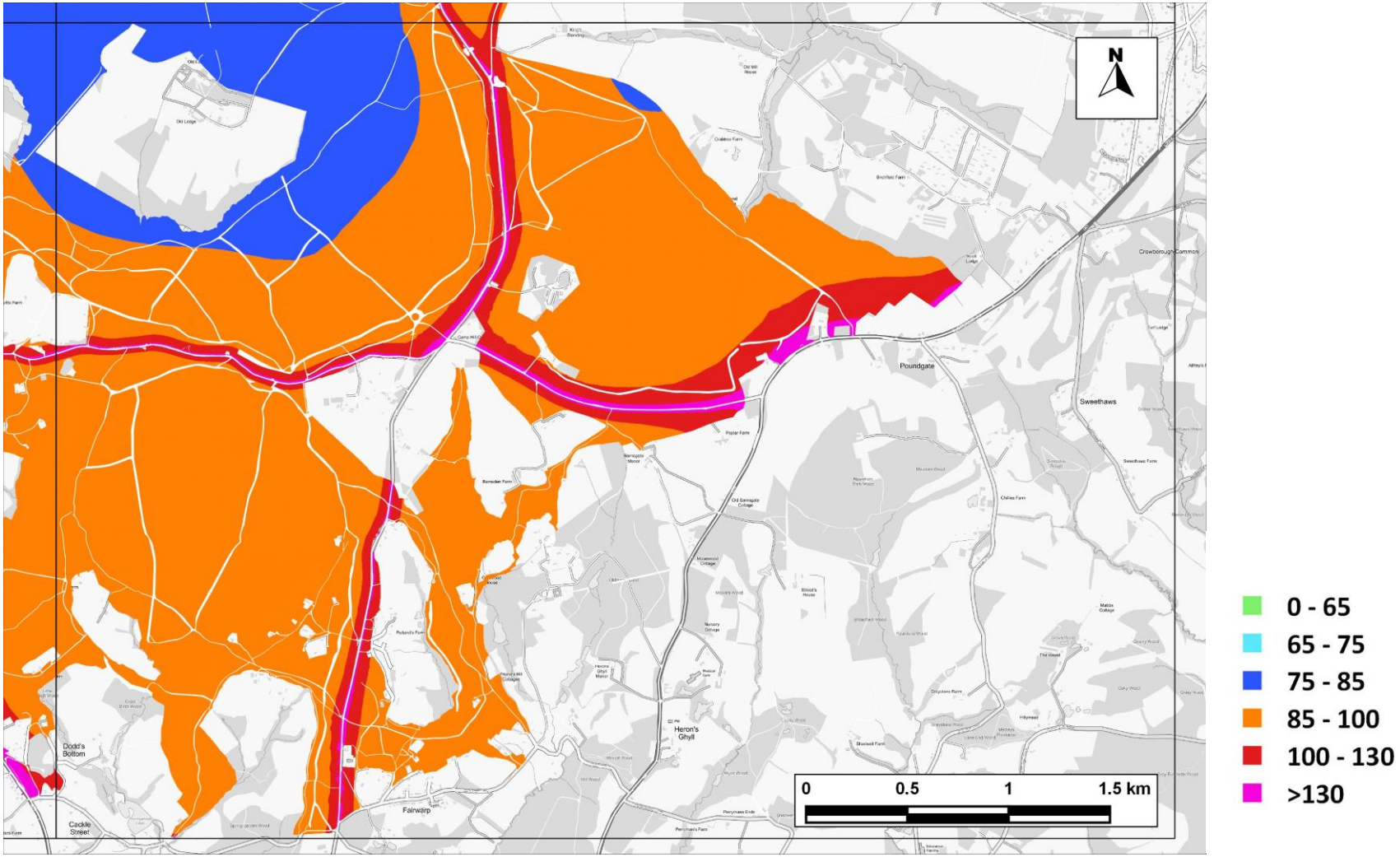


Figure A8.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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Figure A8.9: Annual Mean NH_3 in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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Figure A8.10: Annual Mean NH_3 in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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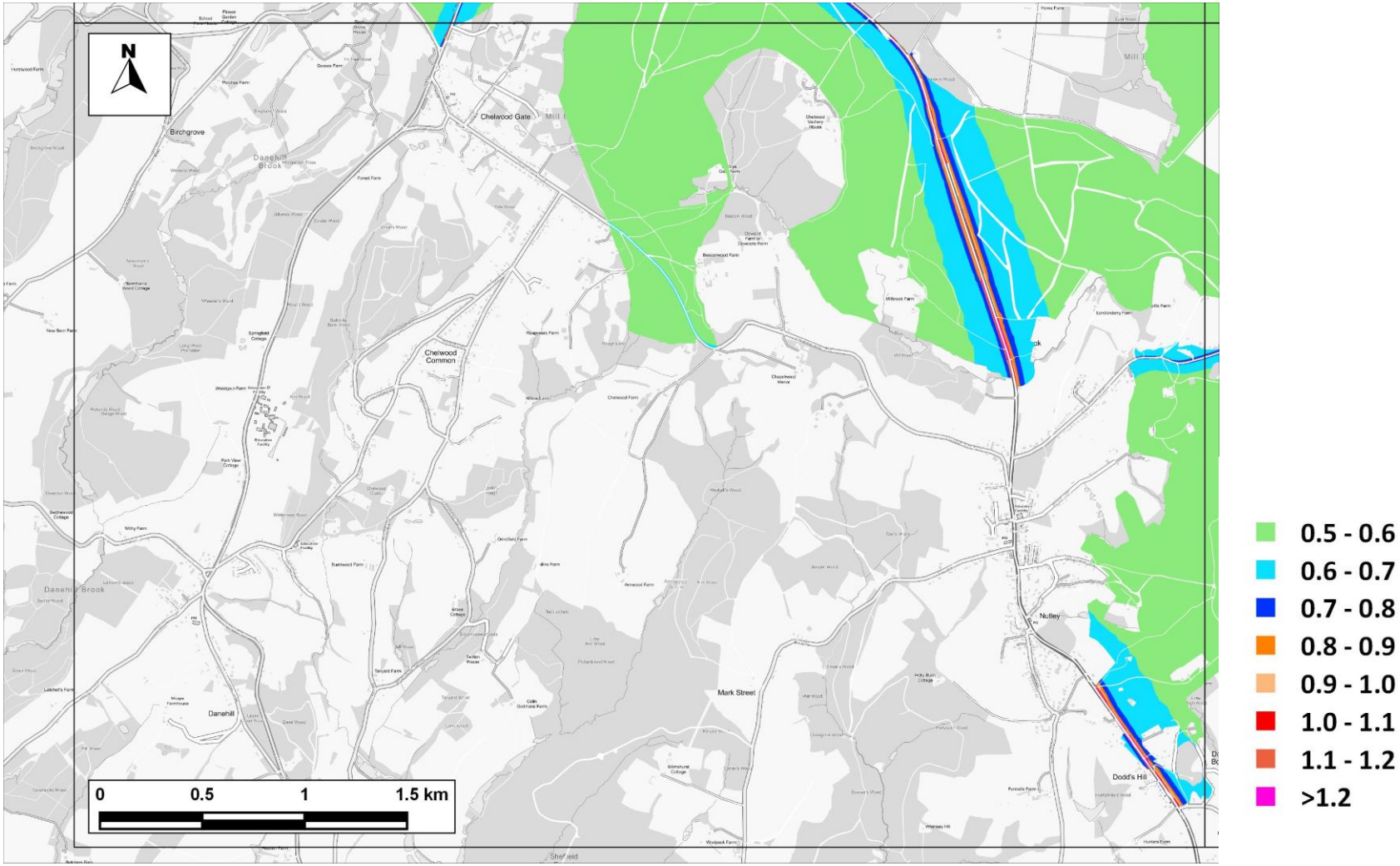


Figure A8.11: Annual Mean NH_3 in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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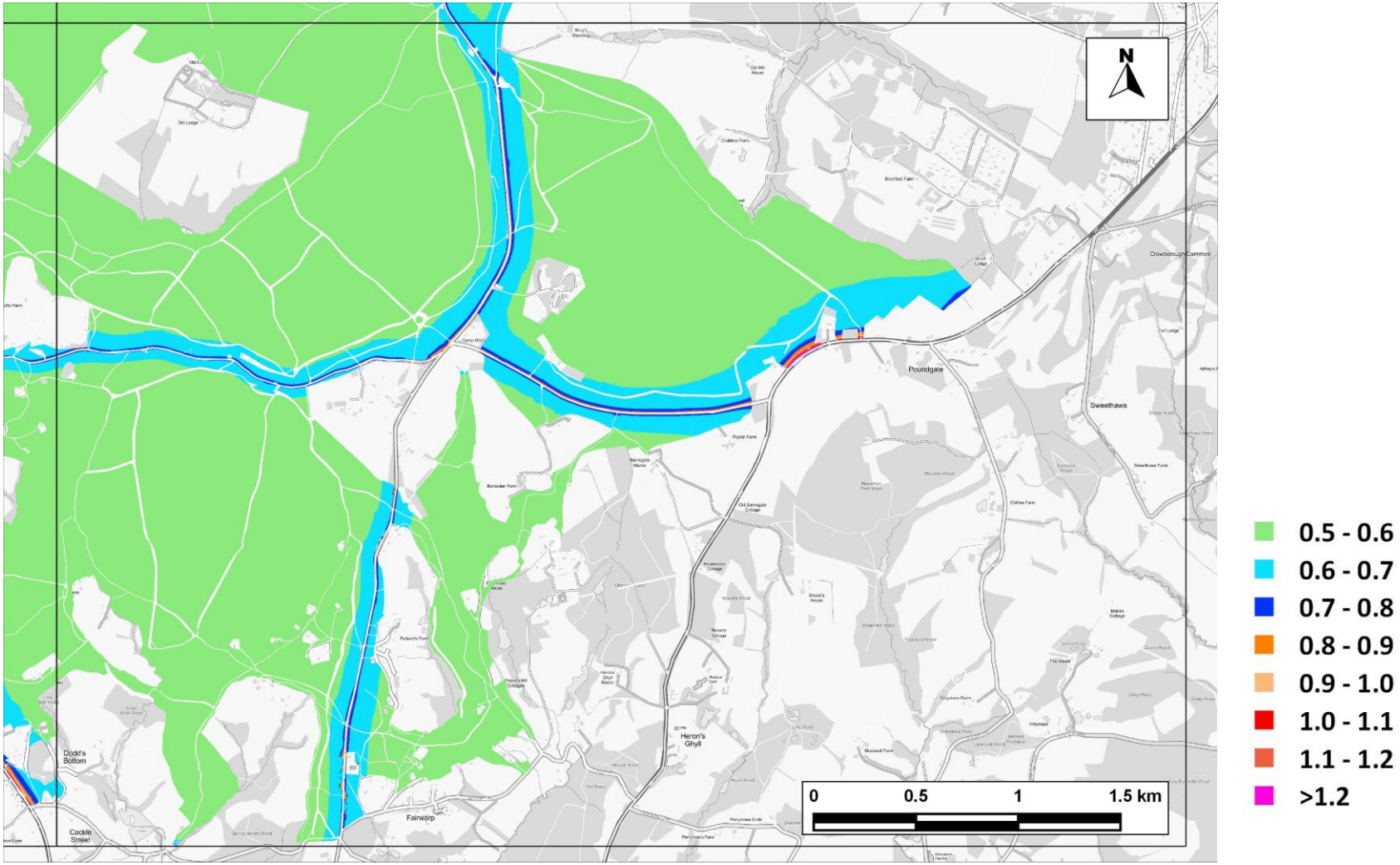


Figure A8.12: Annual Mean NH_3 in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - A)

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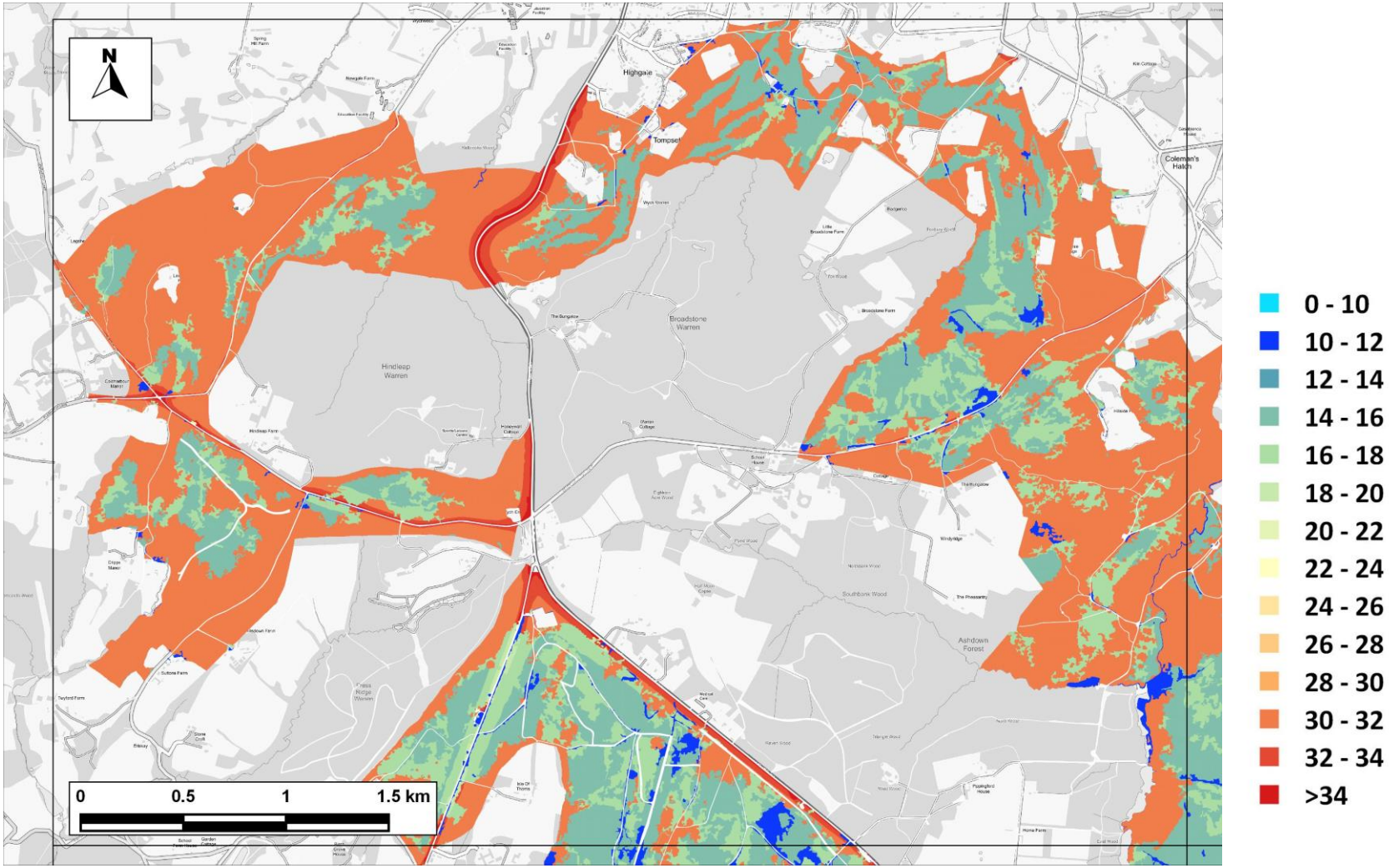


Figure A8.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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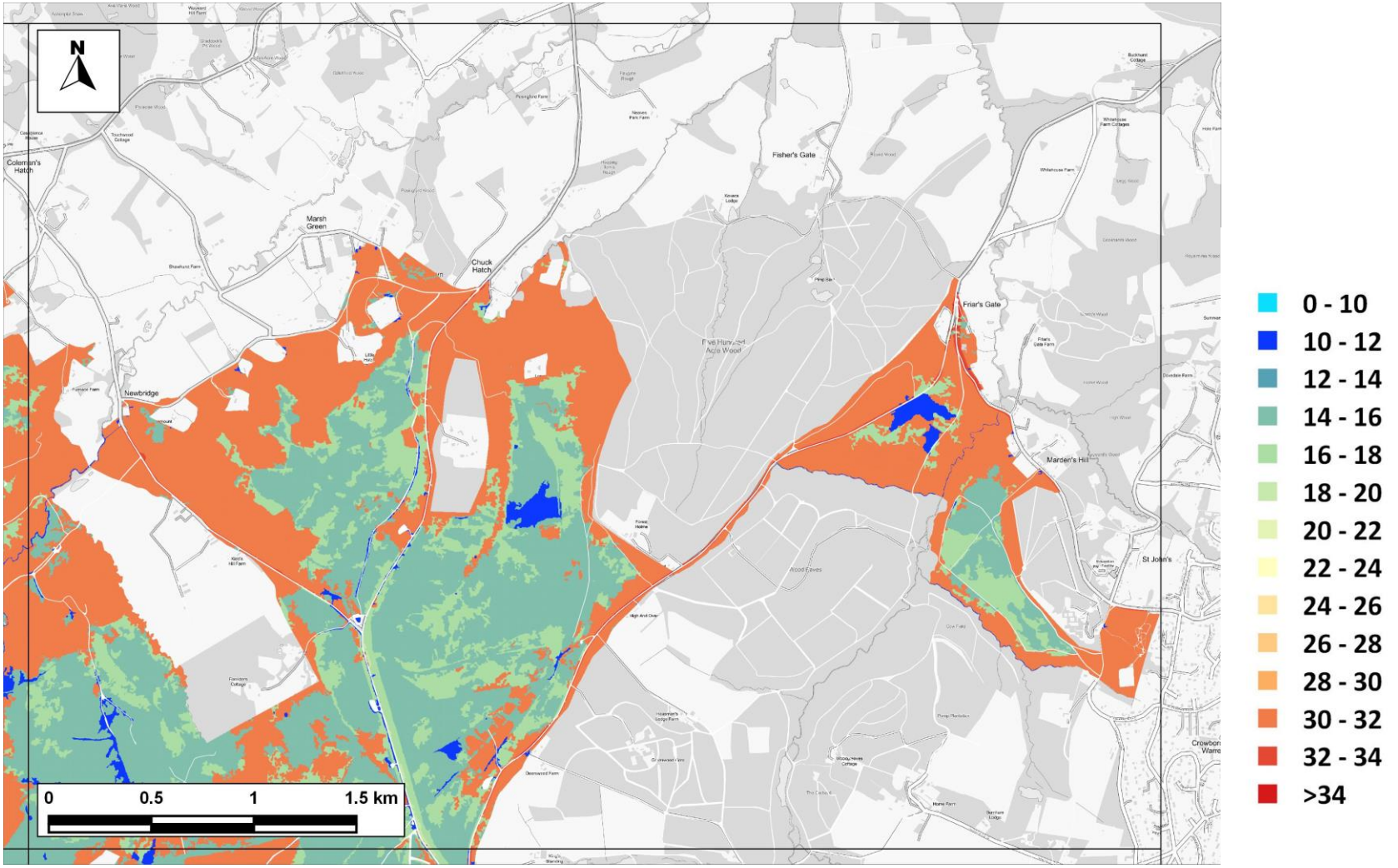


Figure A8.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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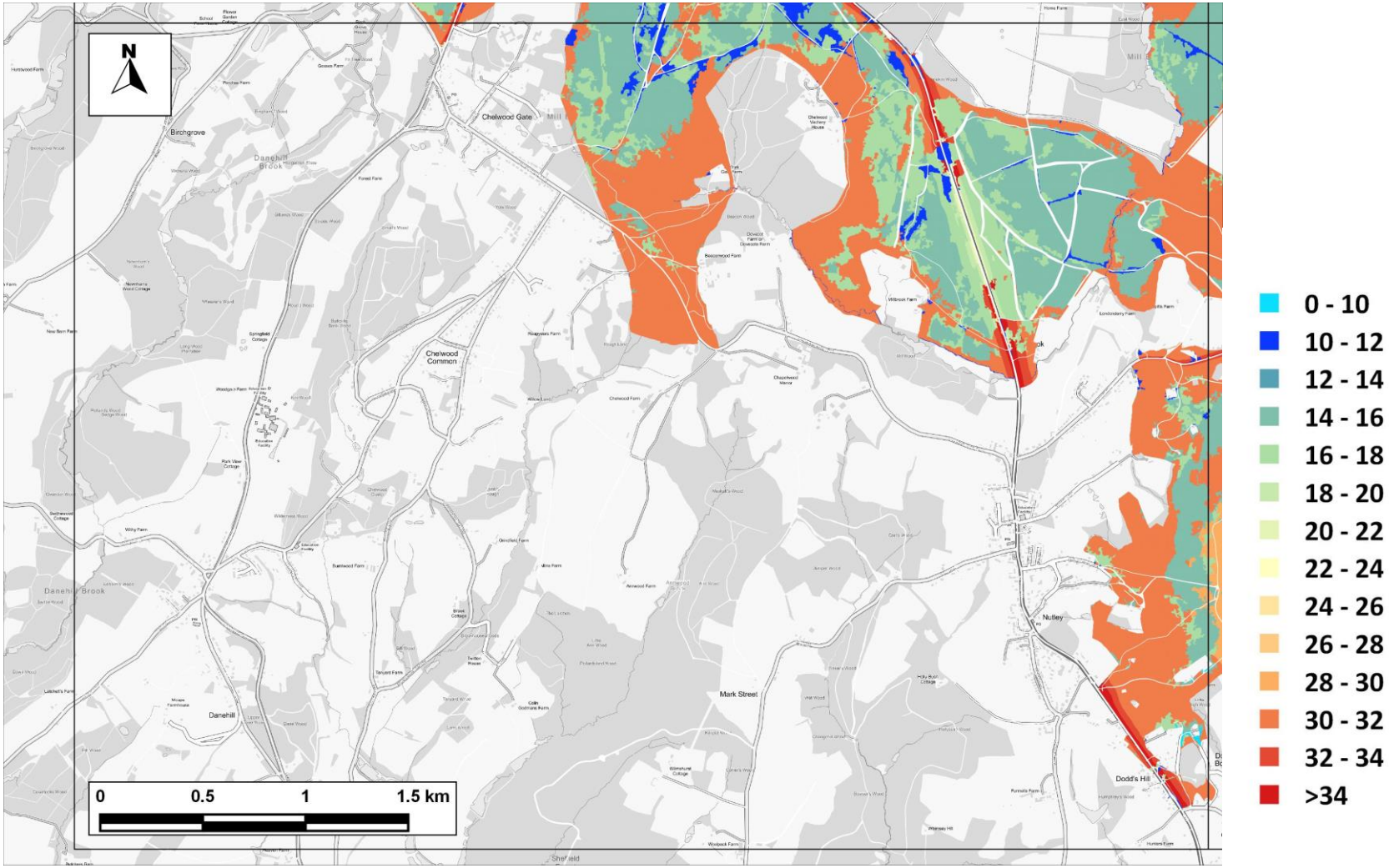


Figure A8.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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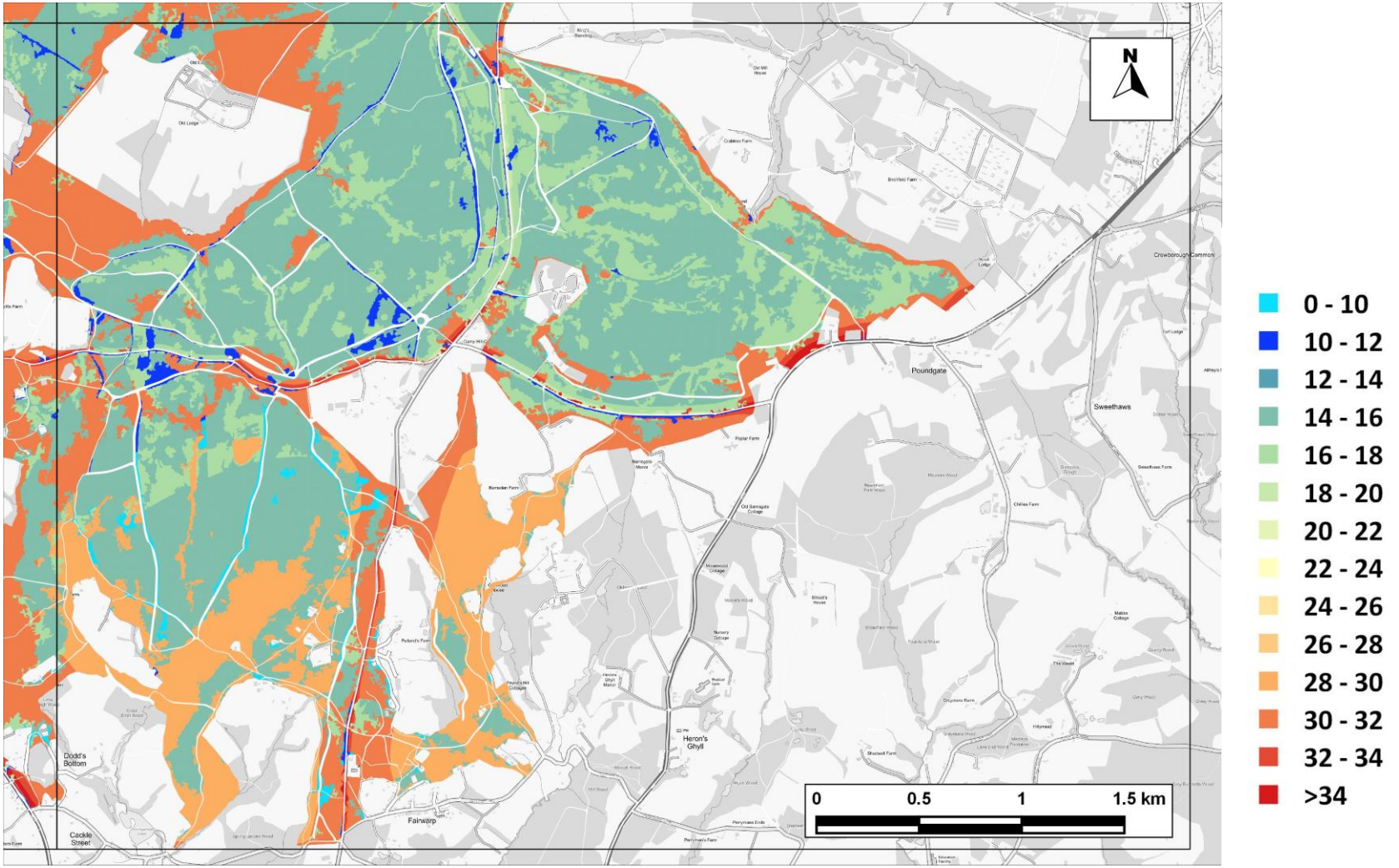


Figure A8.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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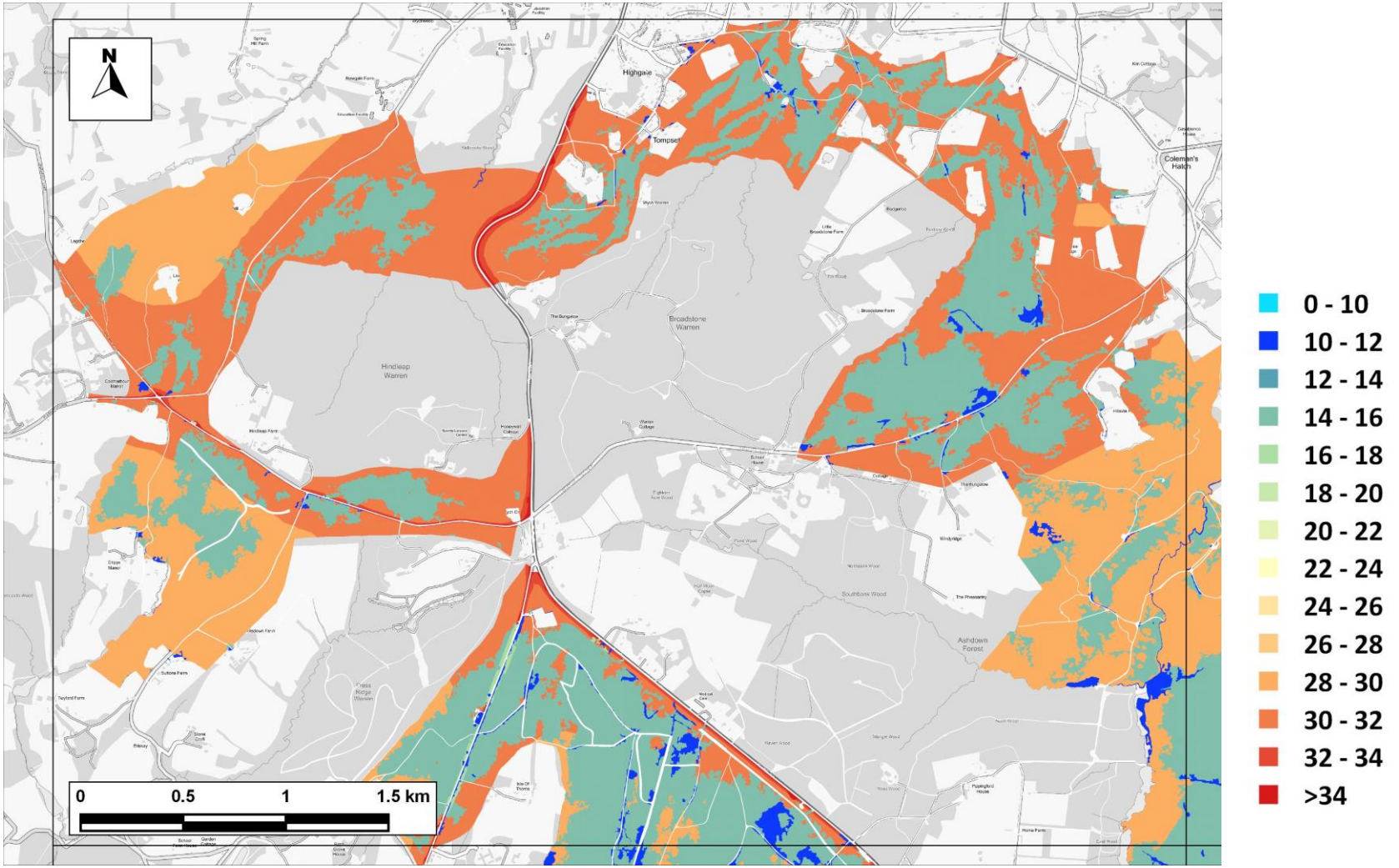


Figure A8.17: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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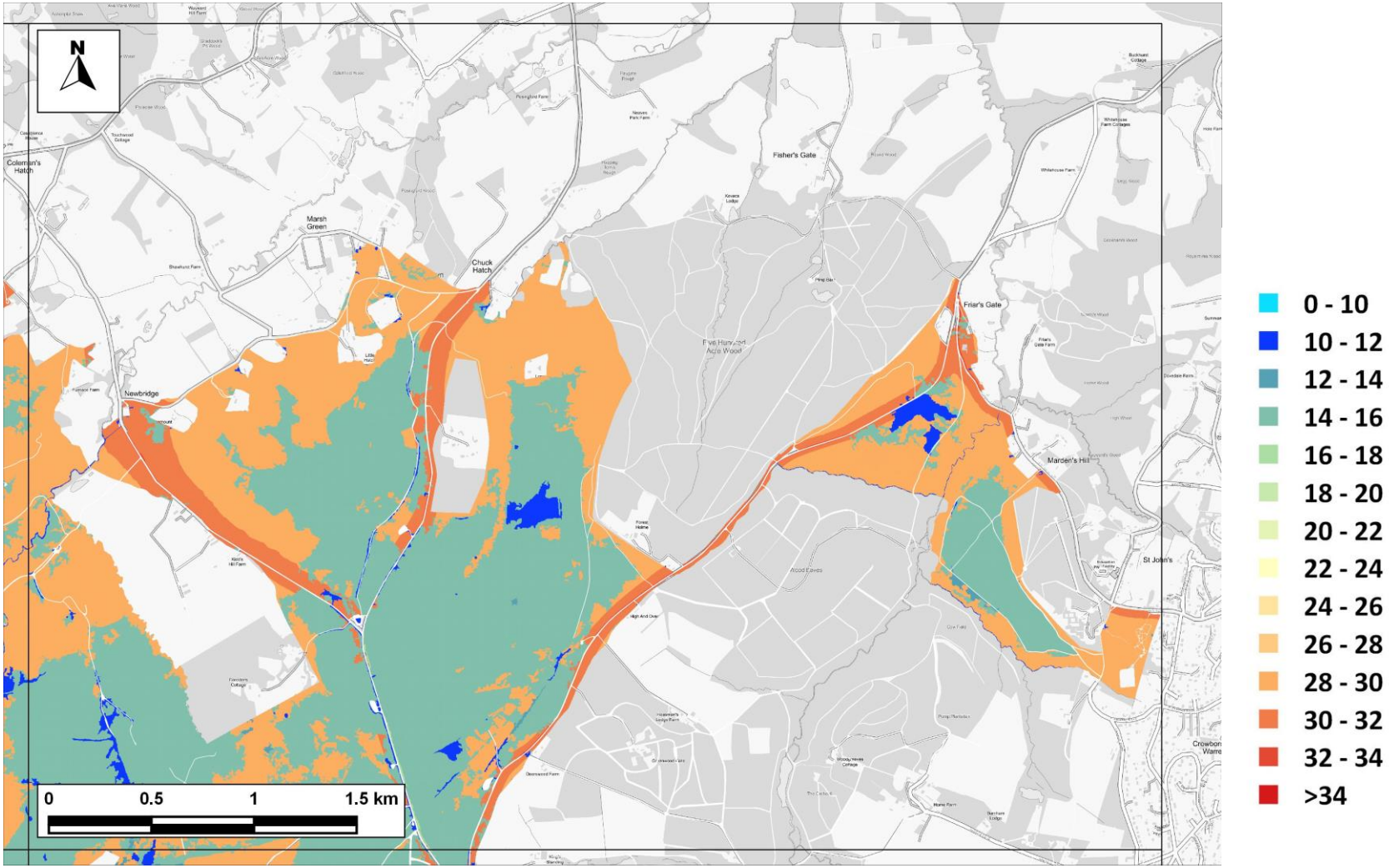


Figure A8.18: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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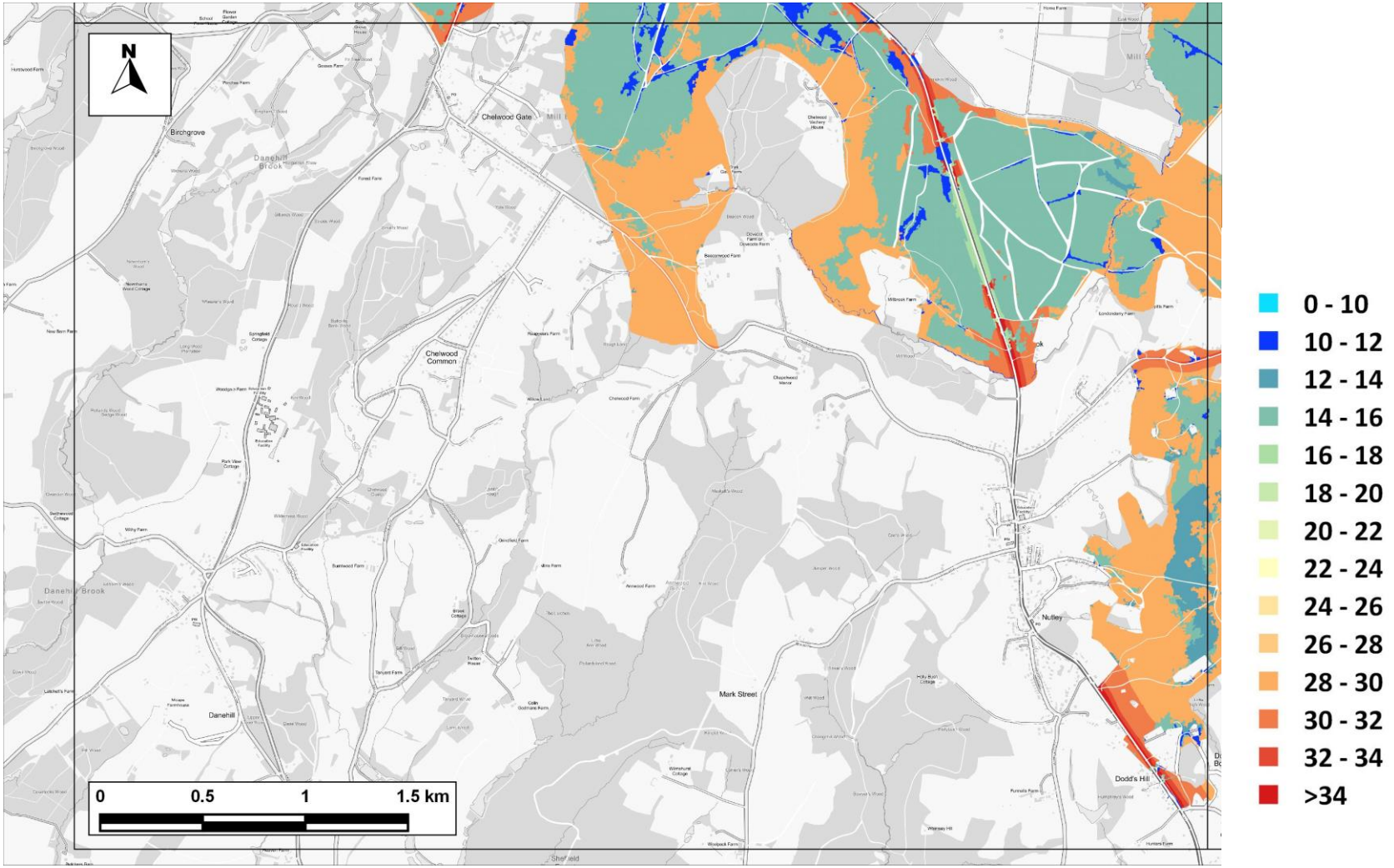


Figure A8.19: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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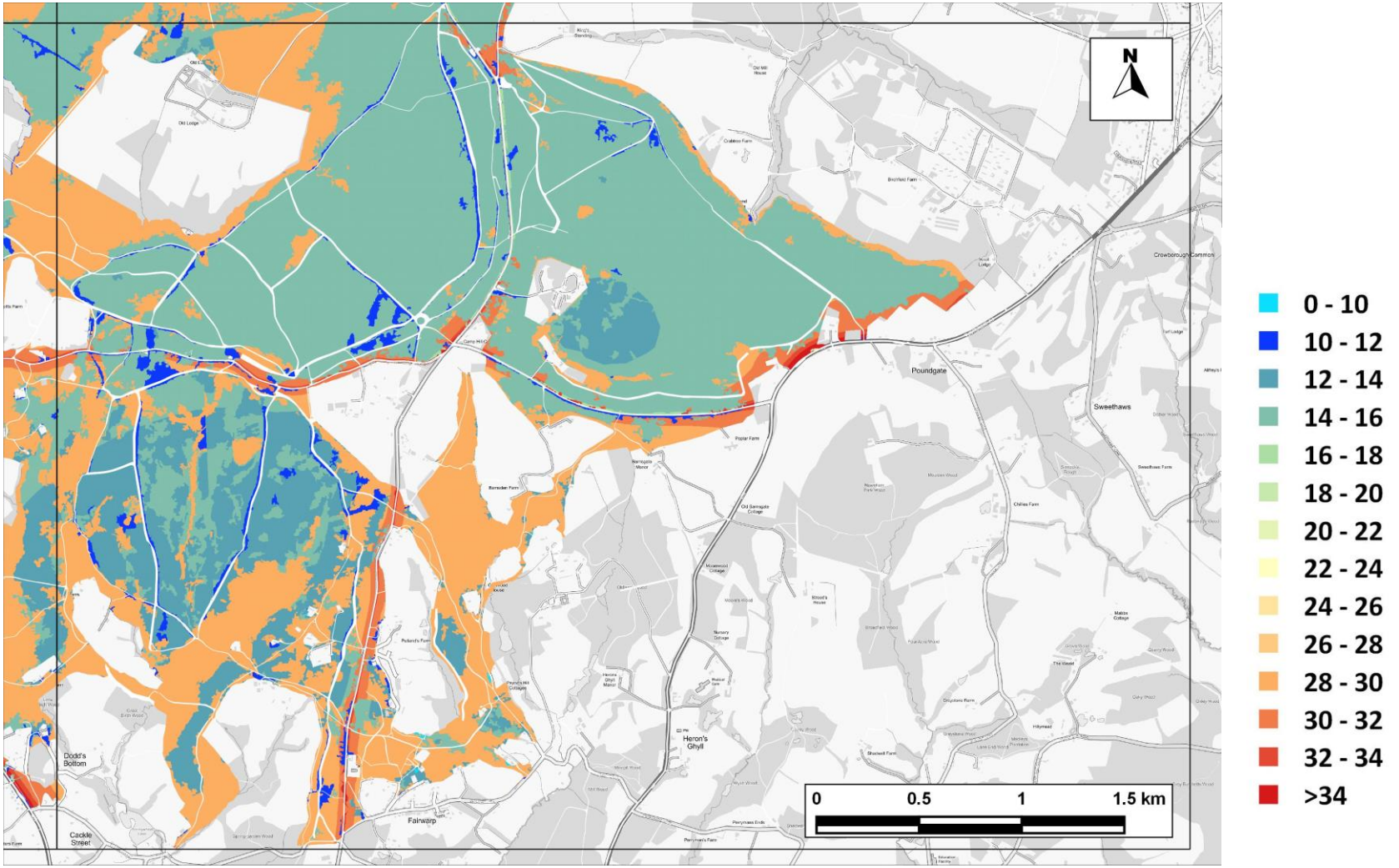


Figure A8.20: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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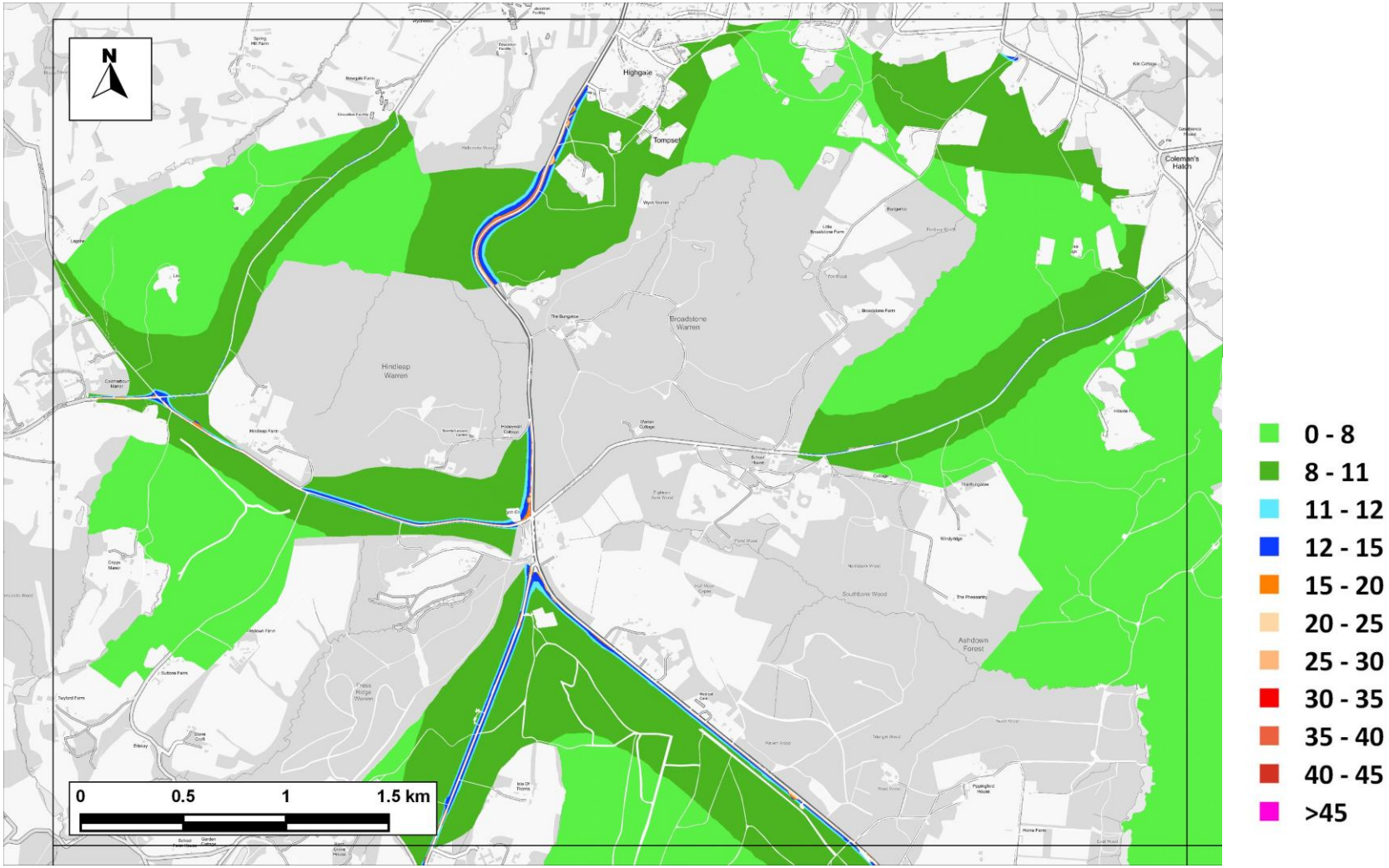


Figure A8.21: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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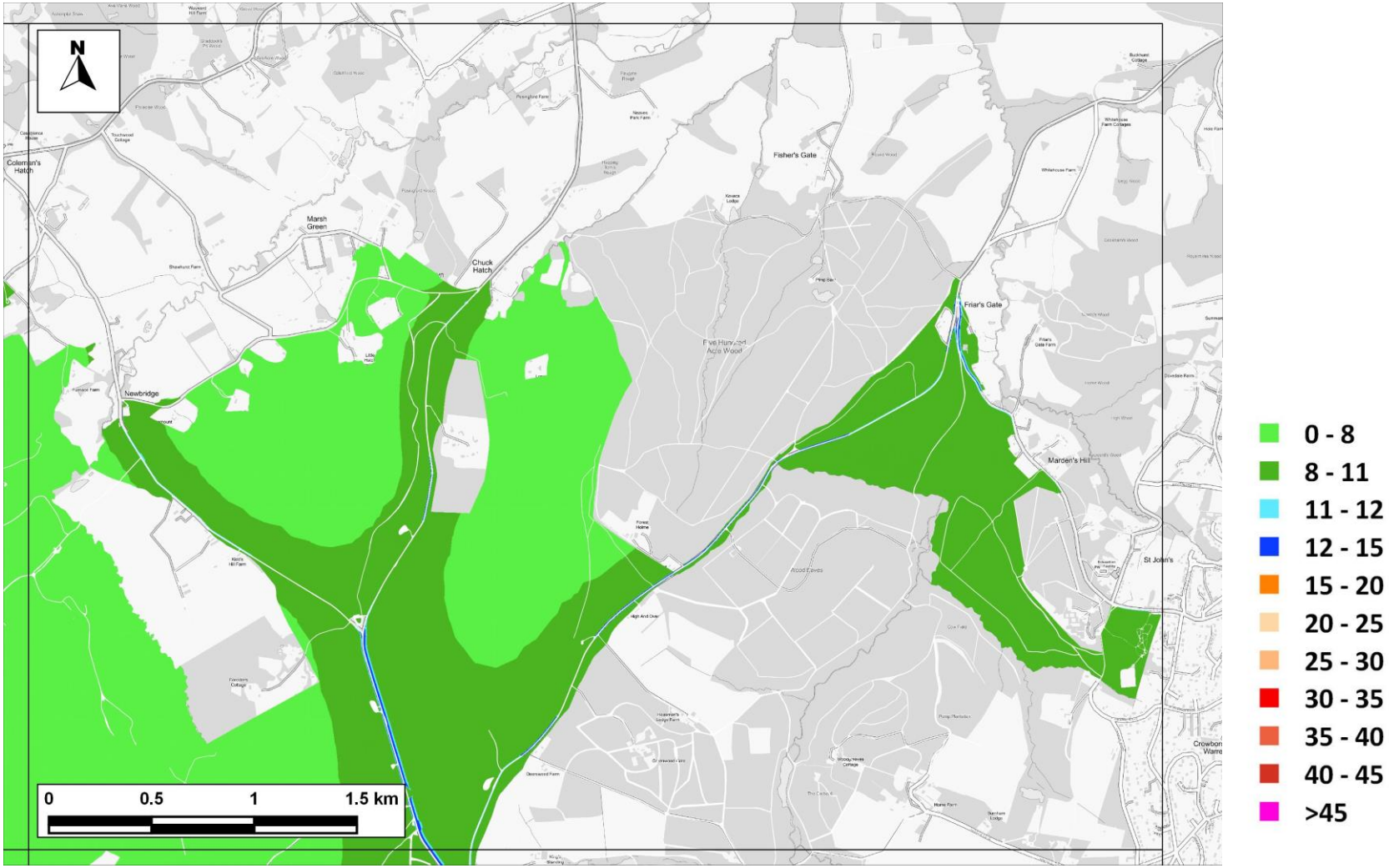


Figure A8.22: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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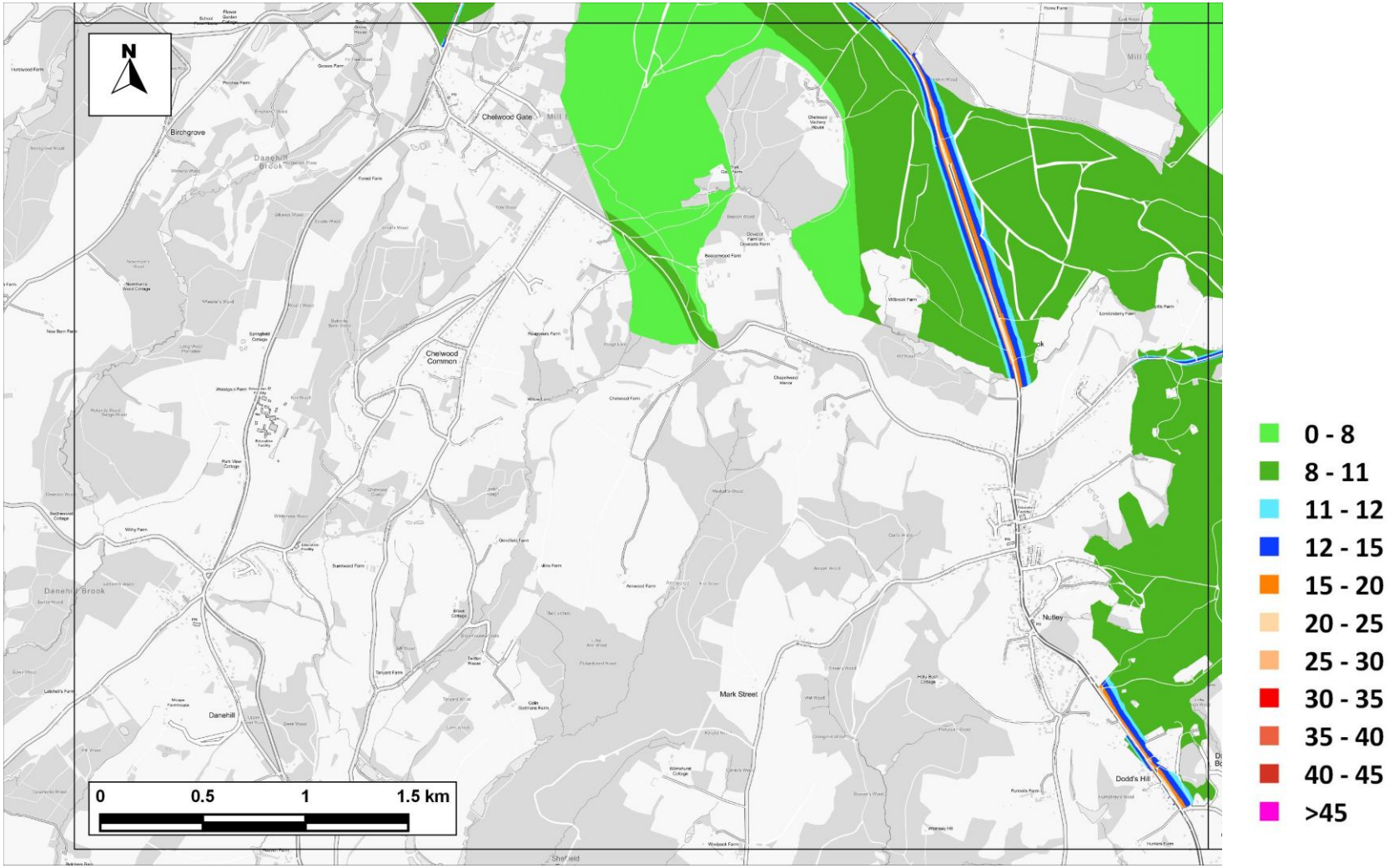


Figure A8.23: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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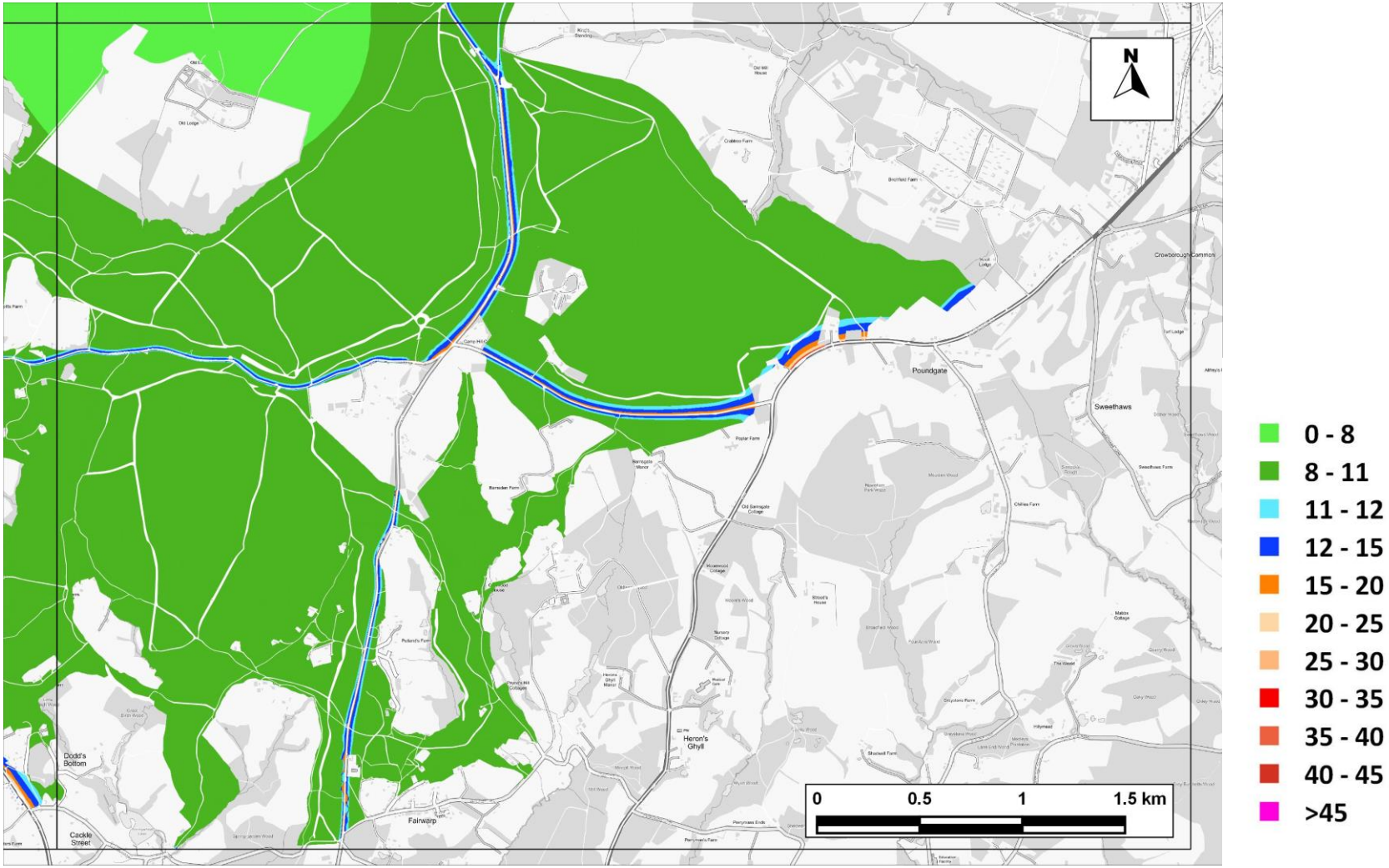


Figure A8.24: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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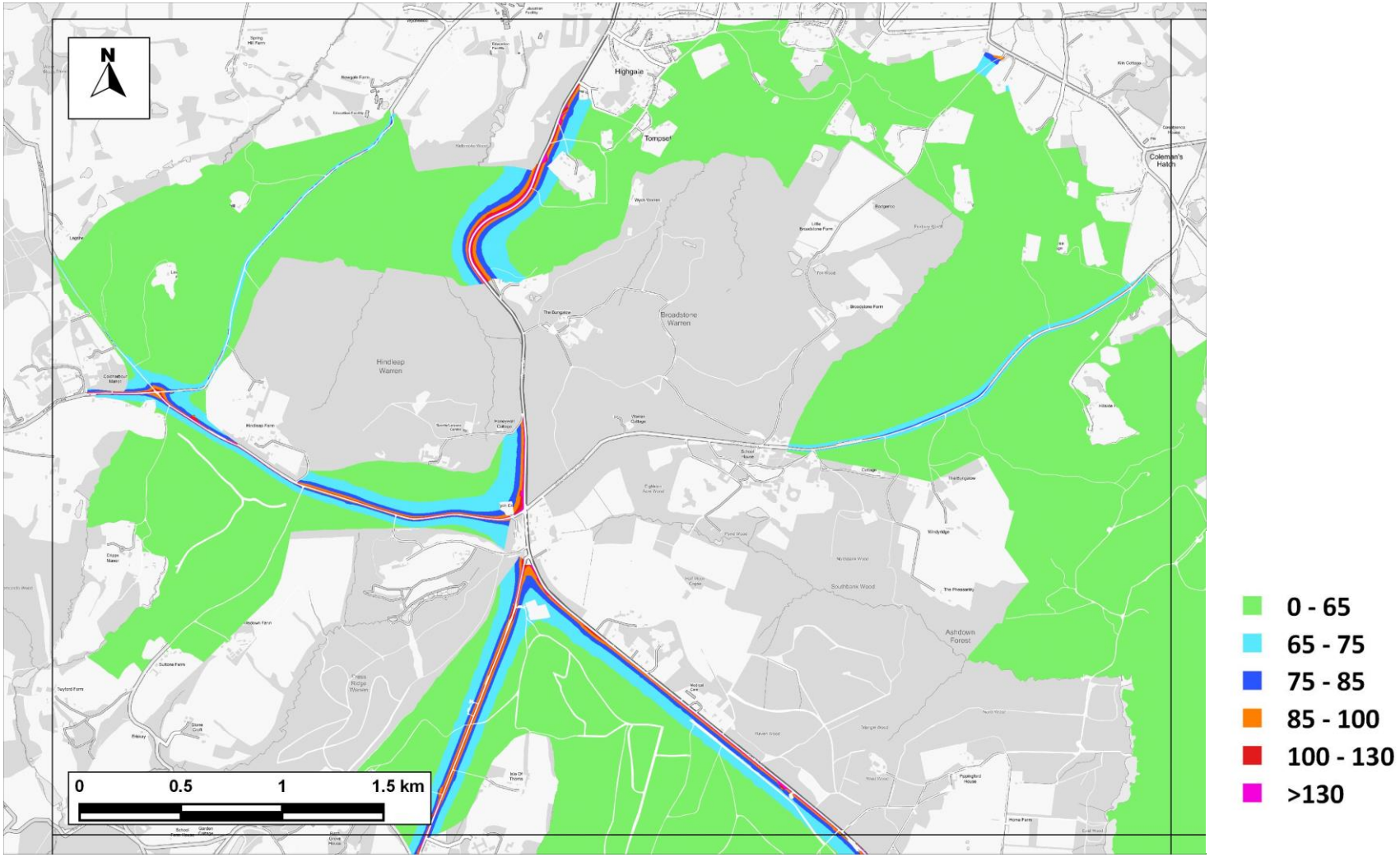


Figure A8.25: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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Figure A8.26: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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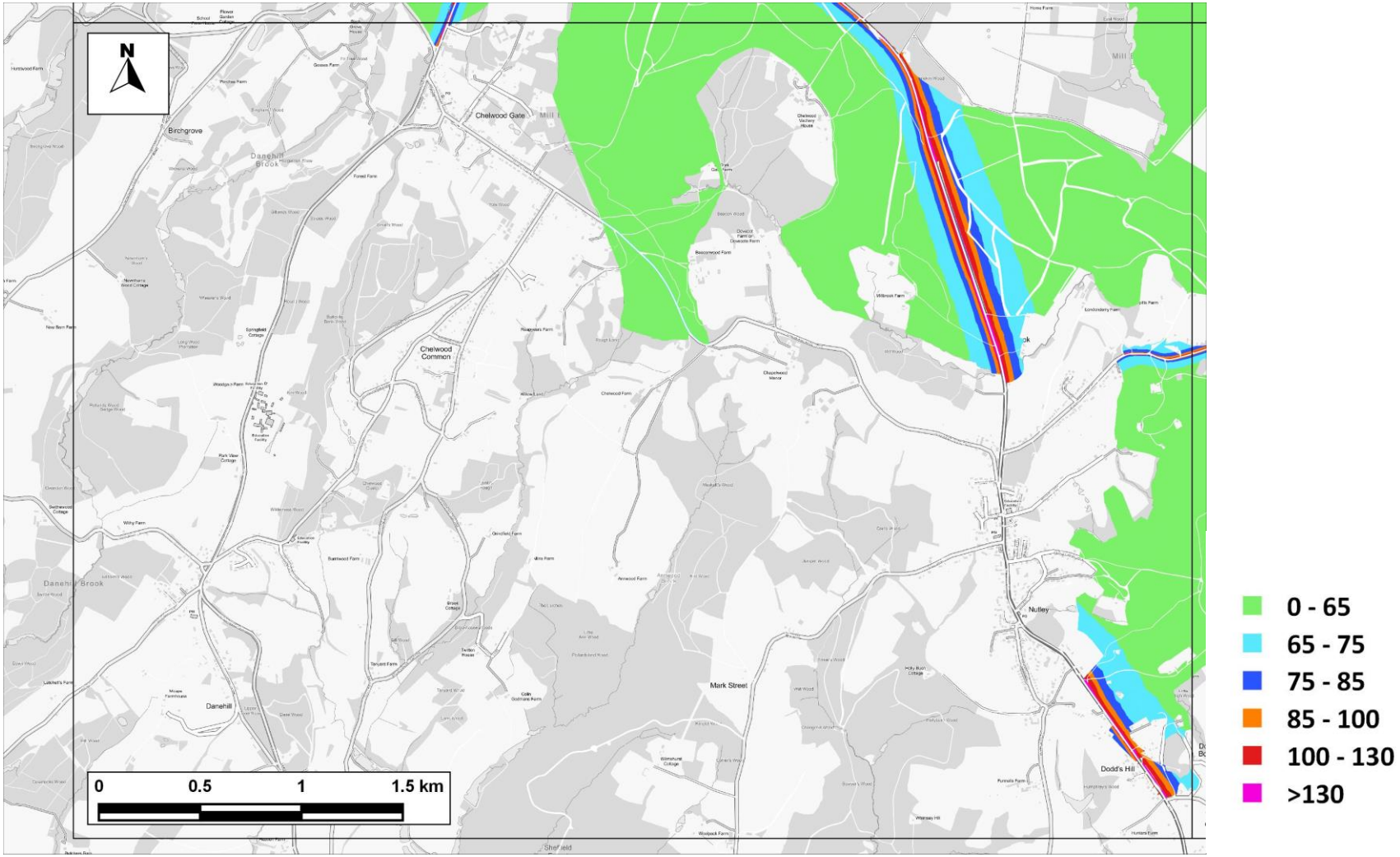


Figure A8.27: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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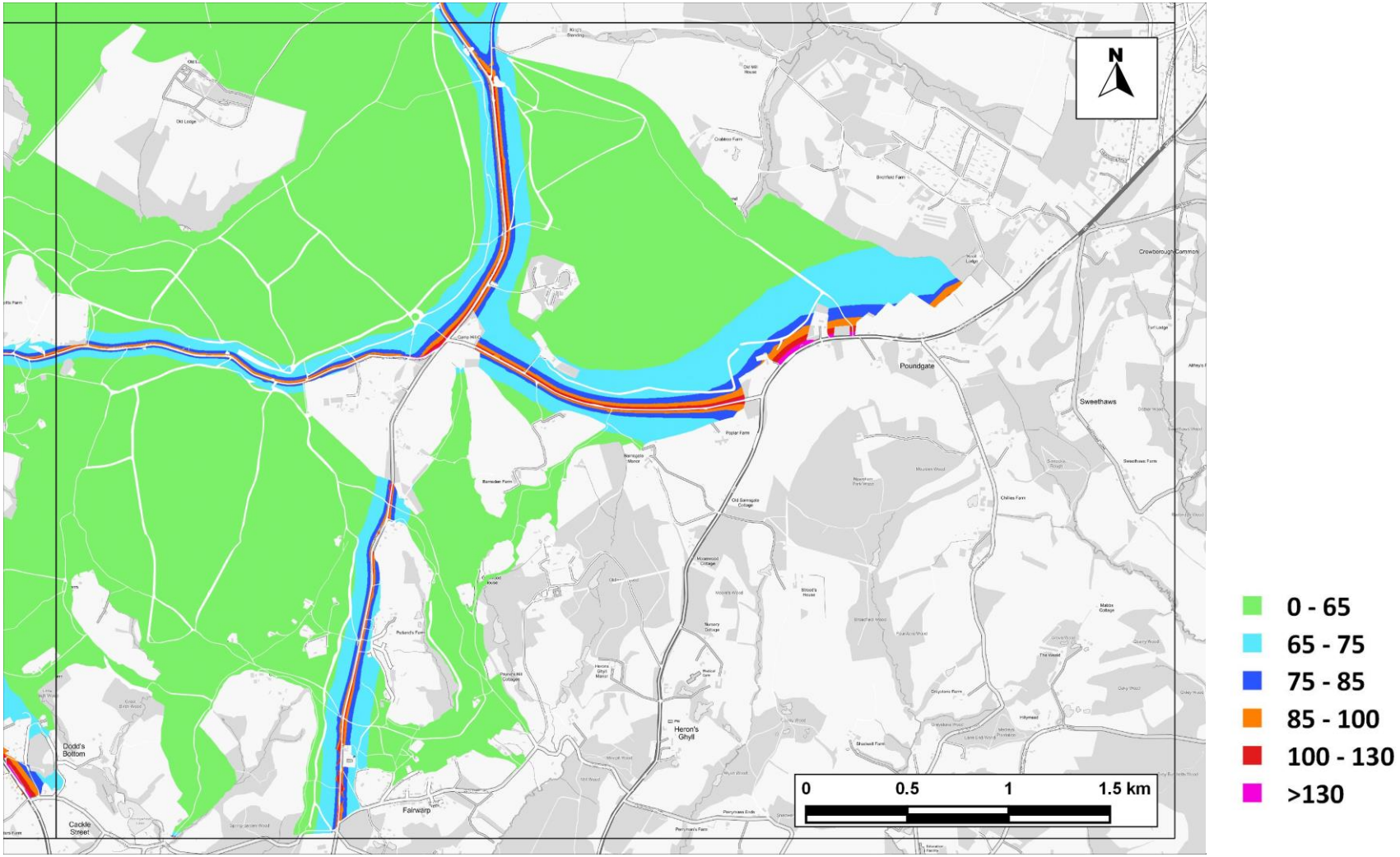


Figure A8.28: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - B)

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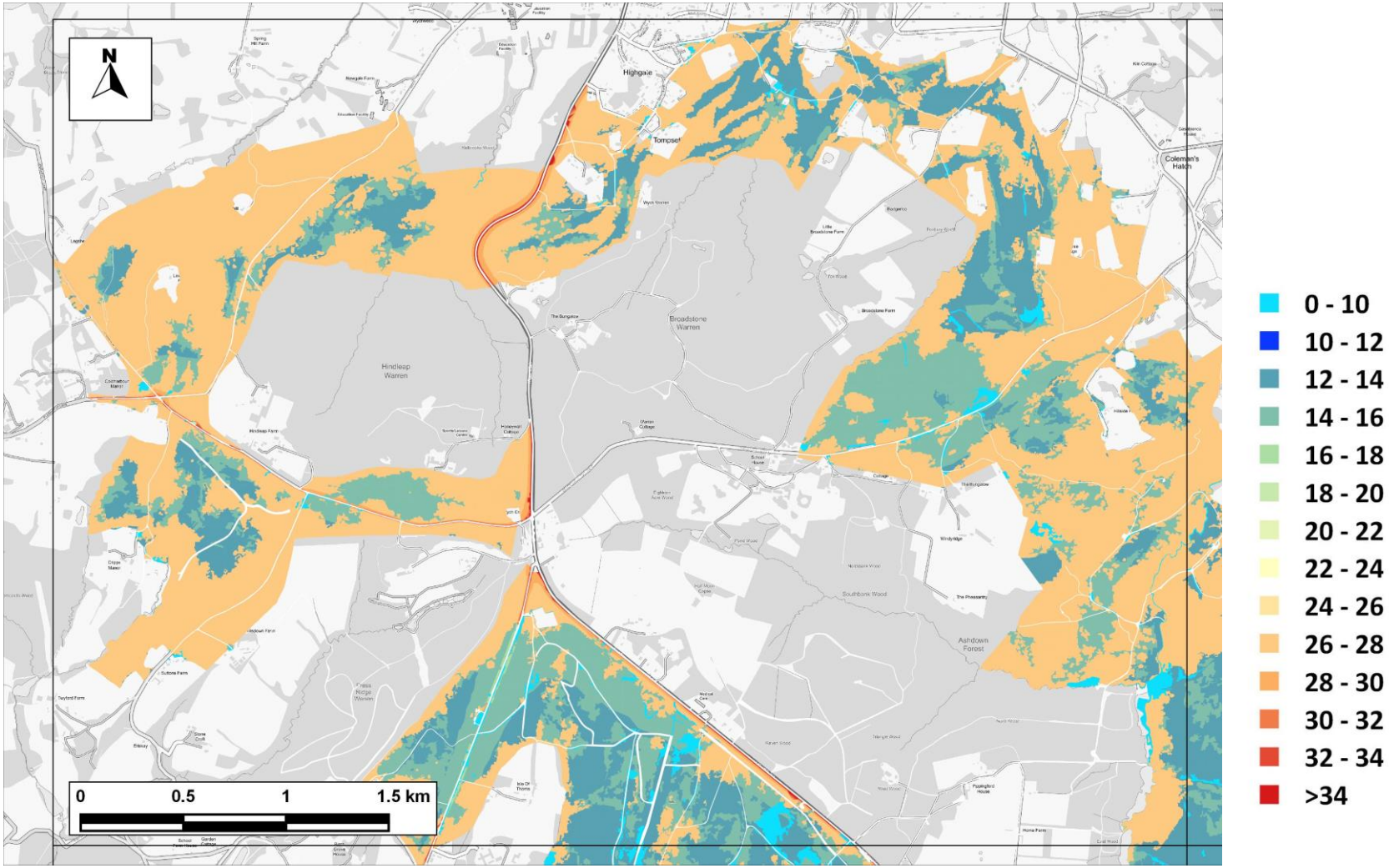


Figure A8.29: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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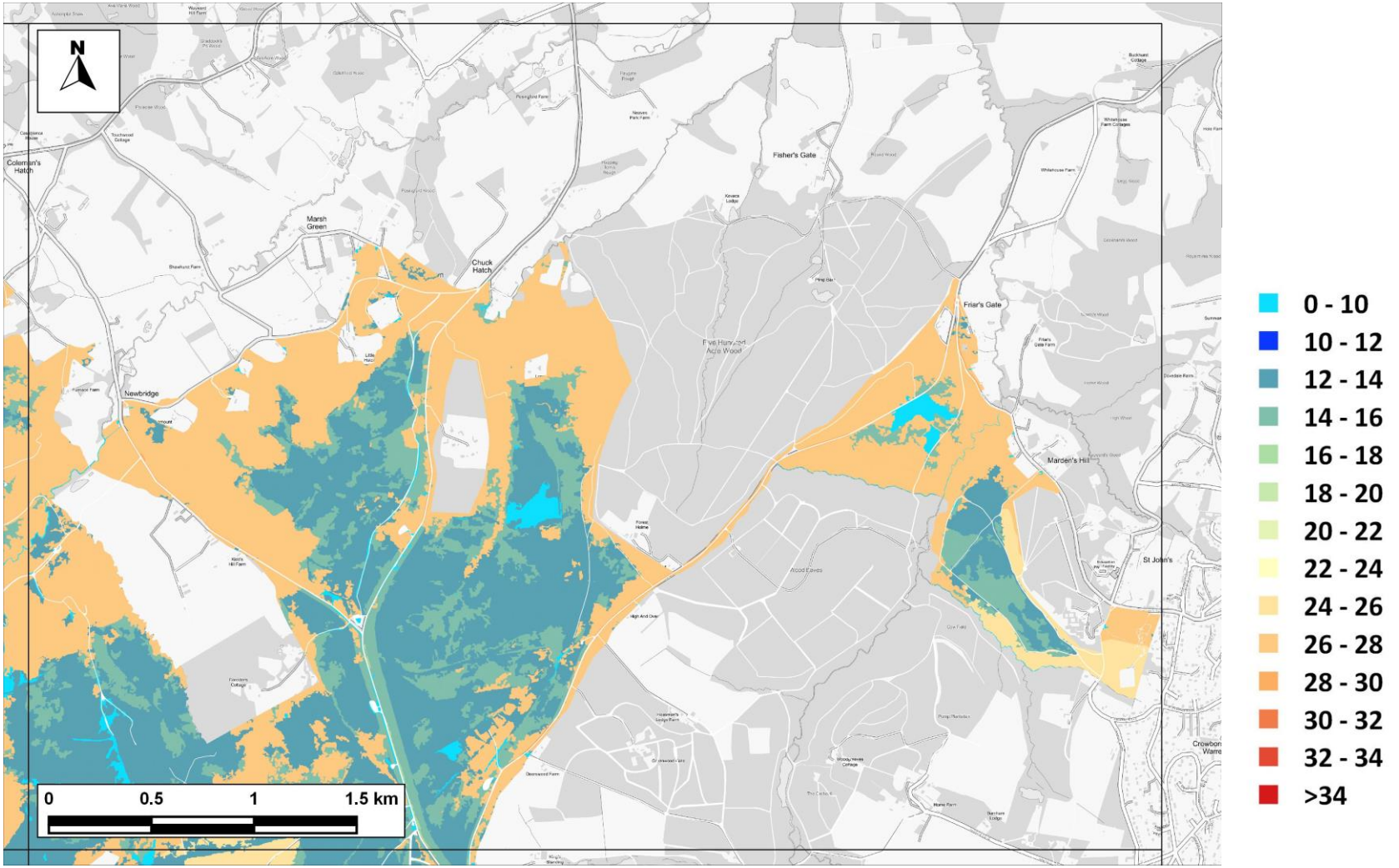


Figure A8.30: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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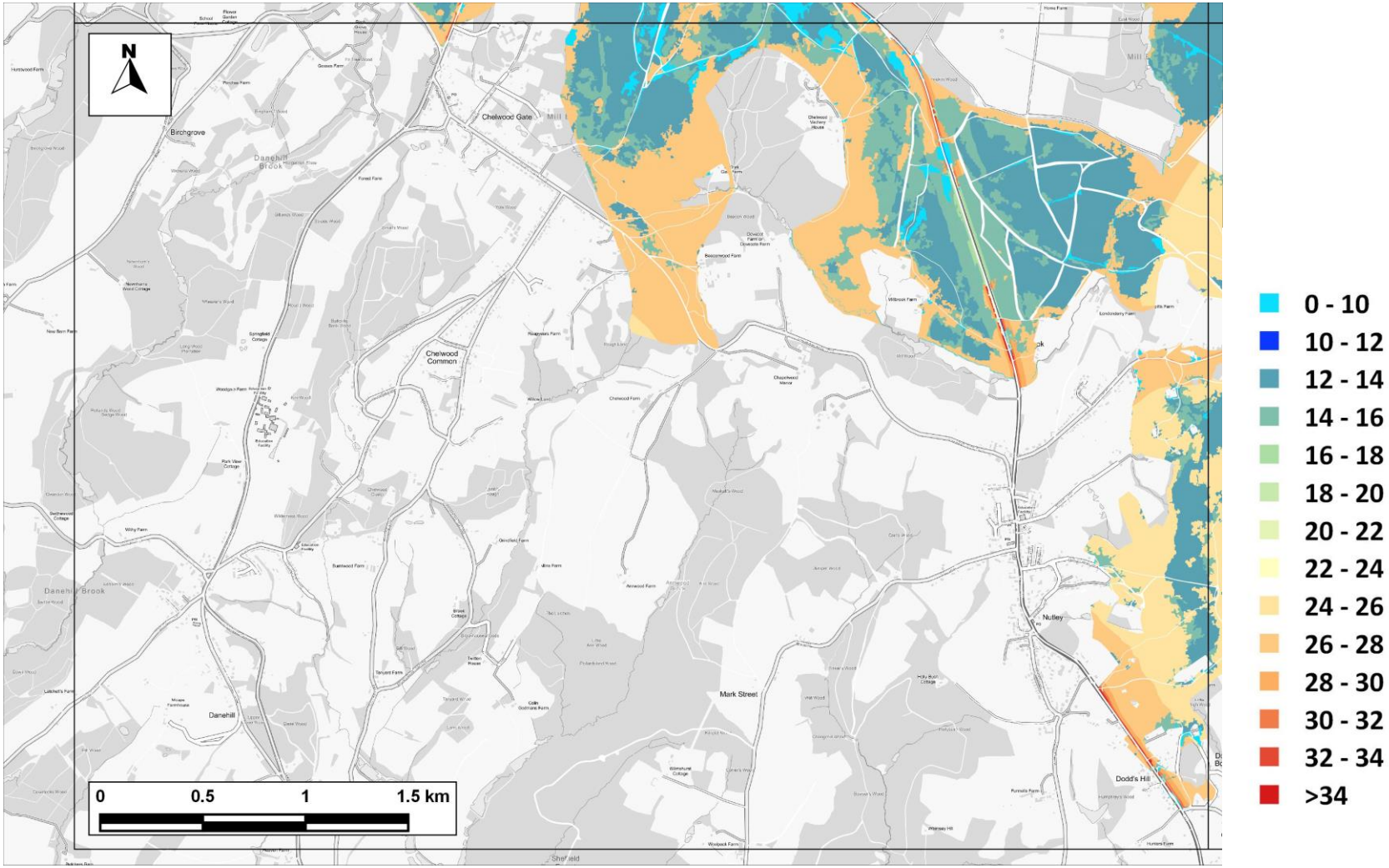


Figure A8.31: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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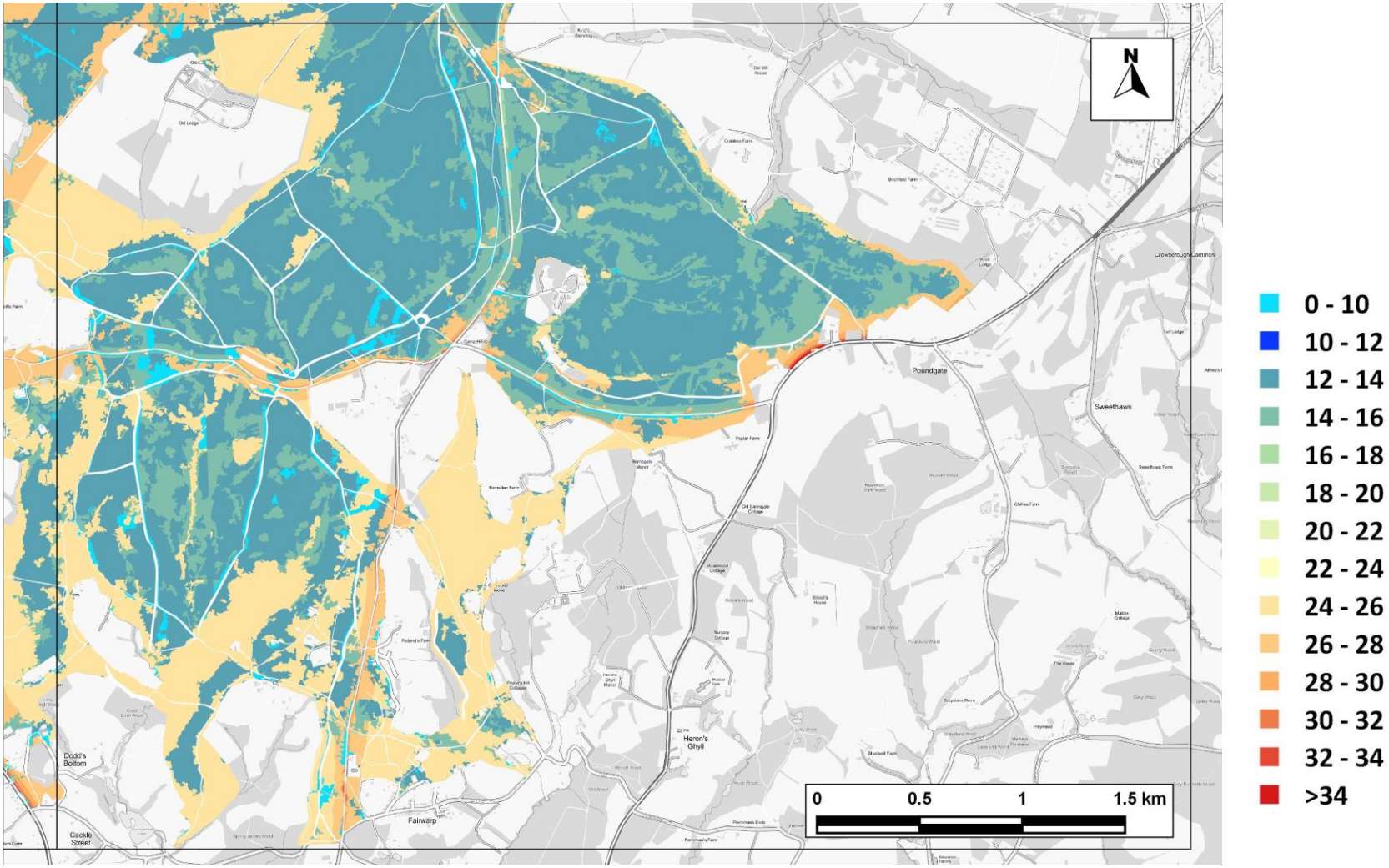


Figure A8.32: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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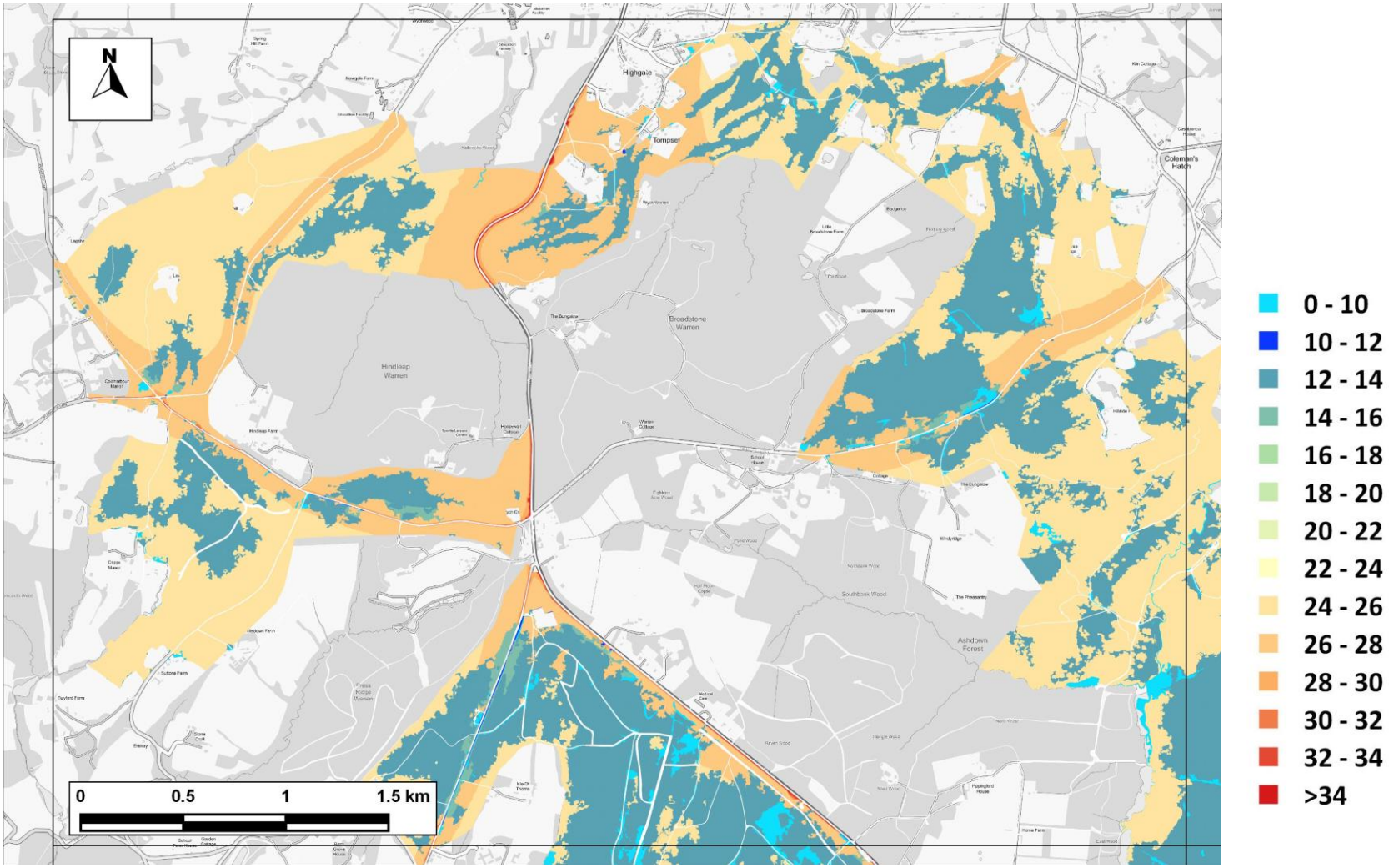


Figure A8.33: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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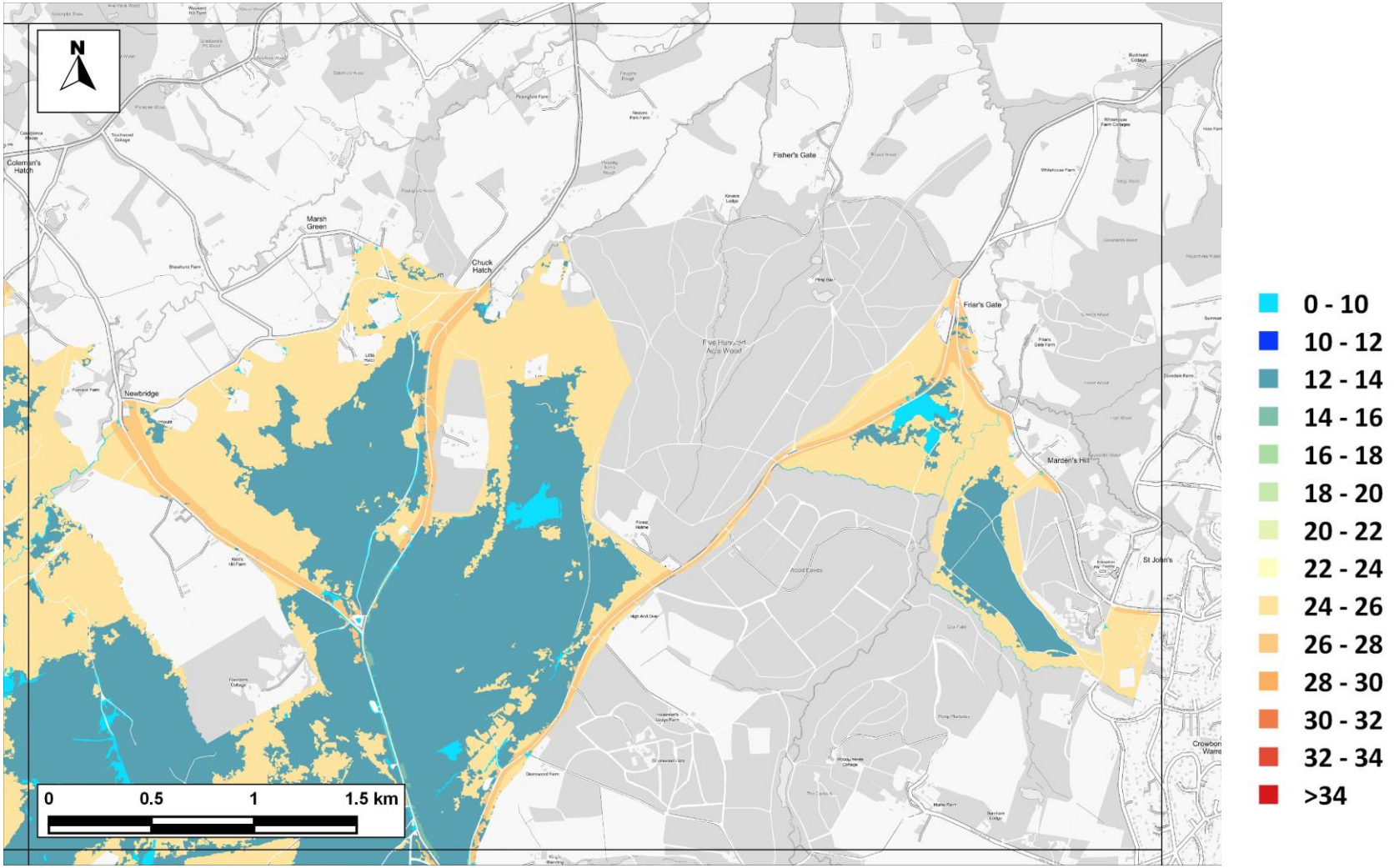


Figure A8.34: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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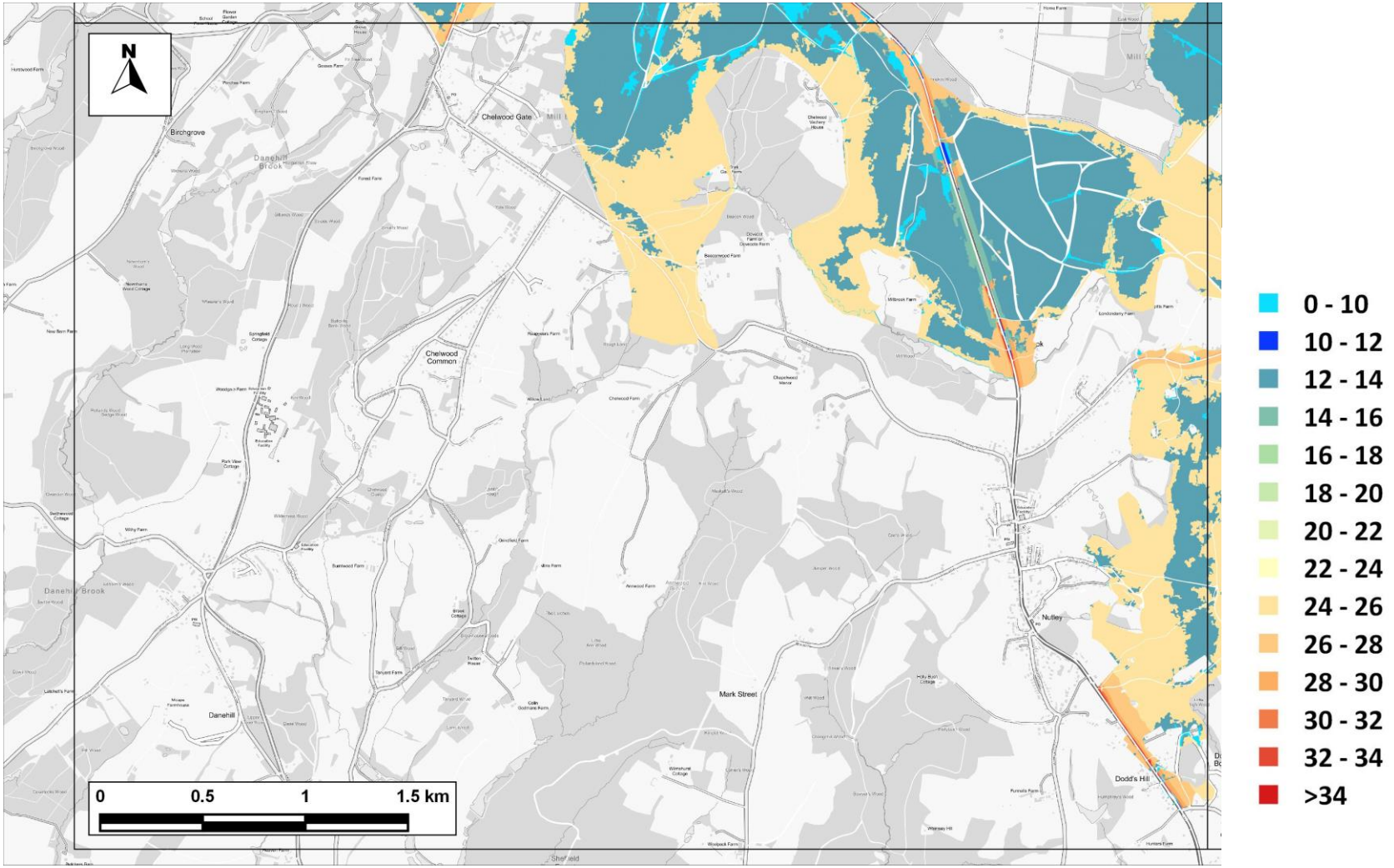


Figure A8.35: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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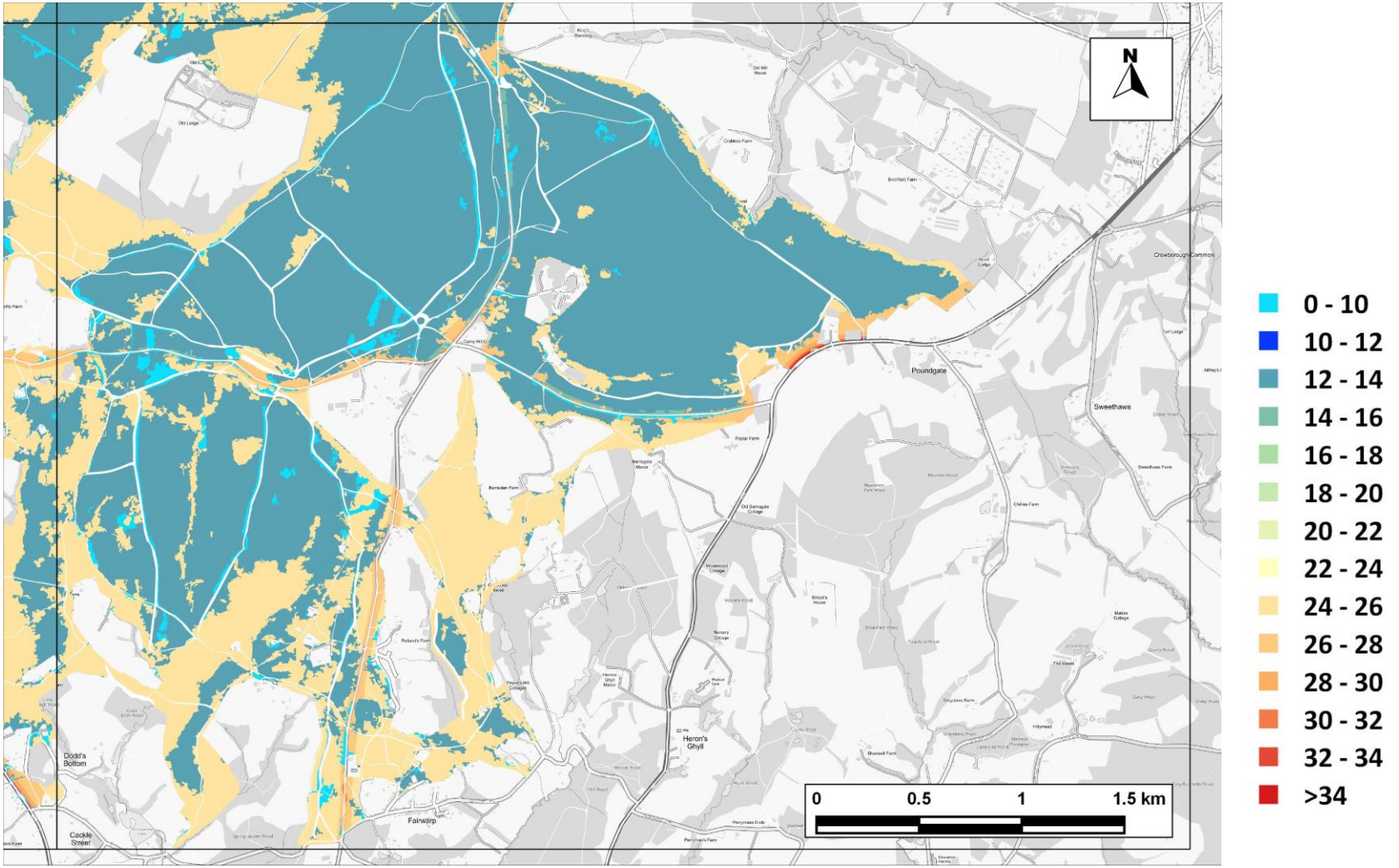


Figure A8.36: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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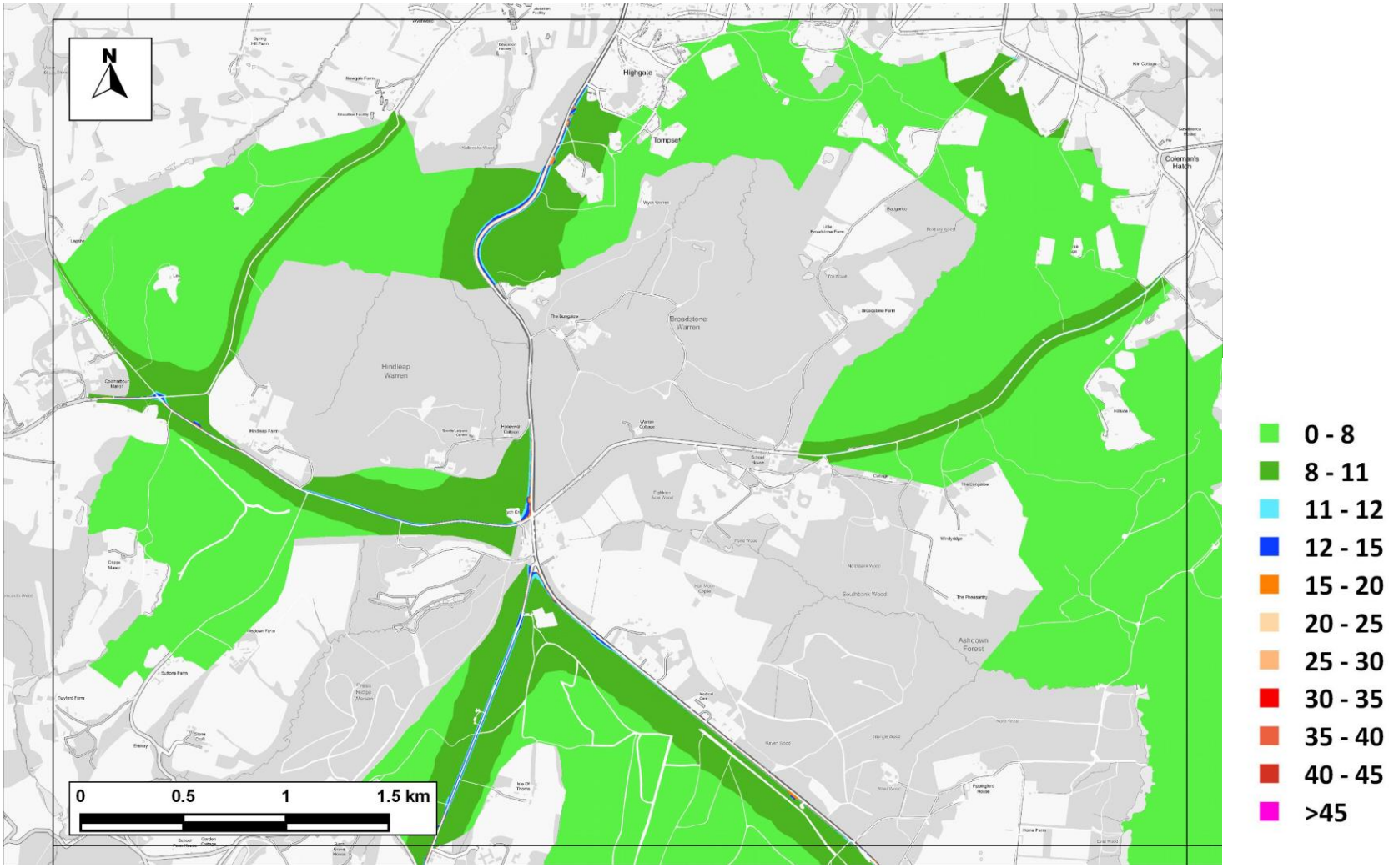


Figure A8.37: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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Figure A8.38: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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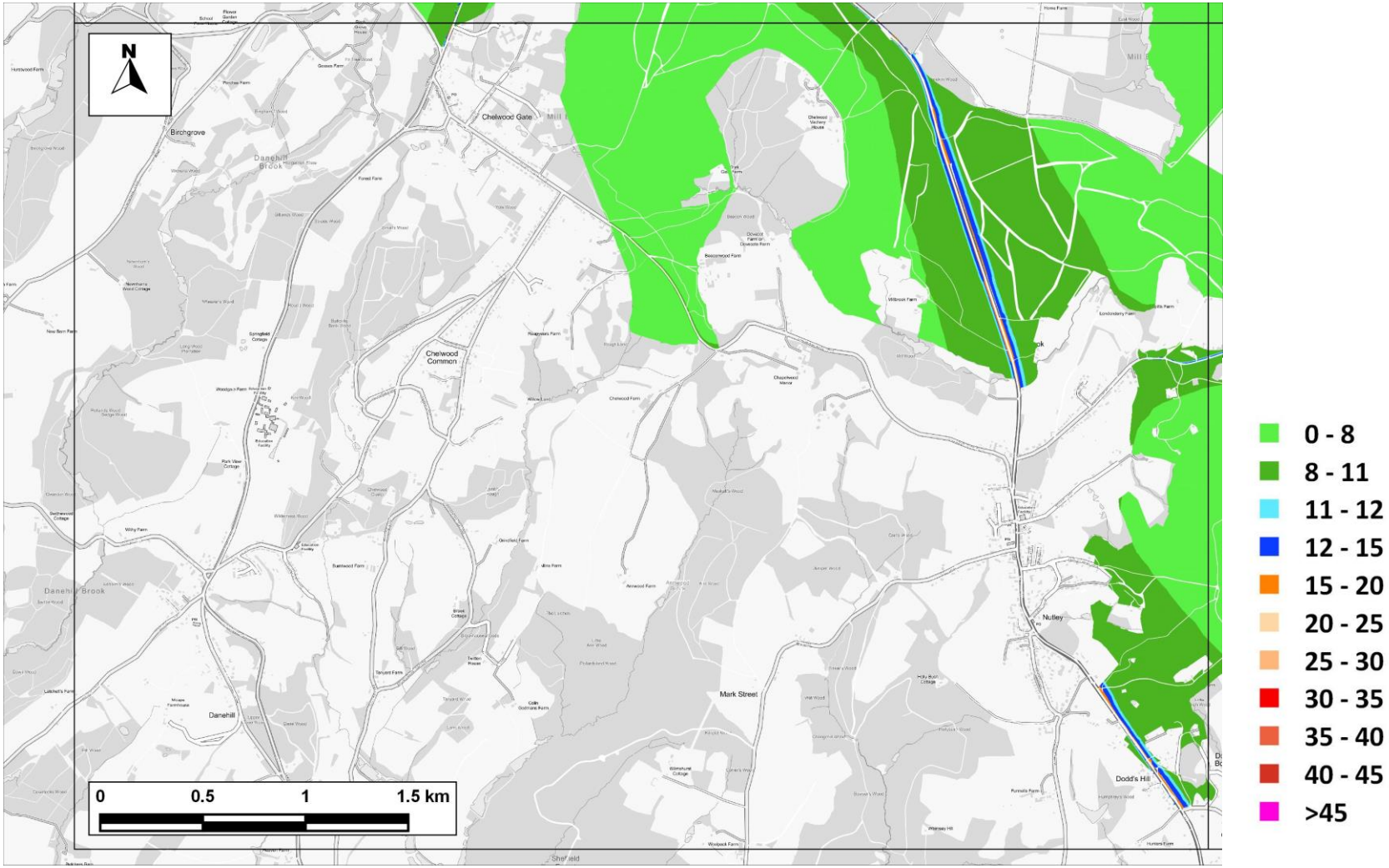


Figure A8.39: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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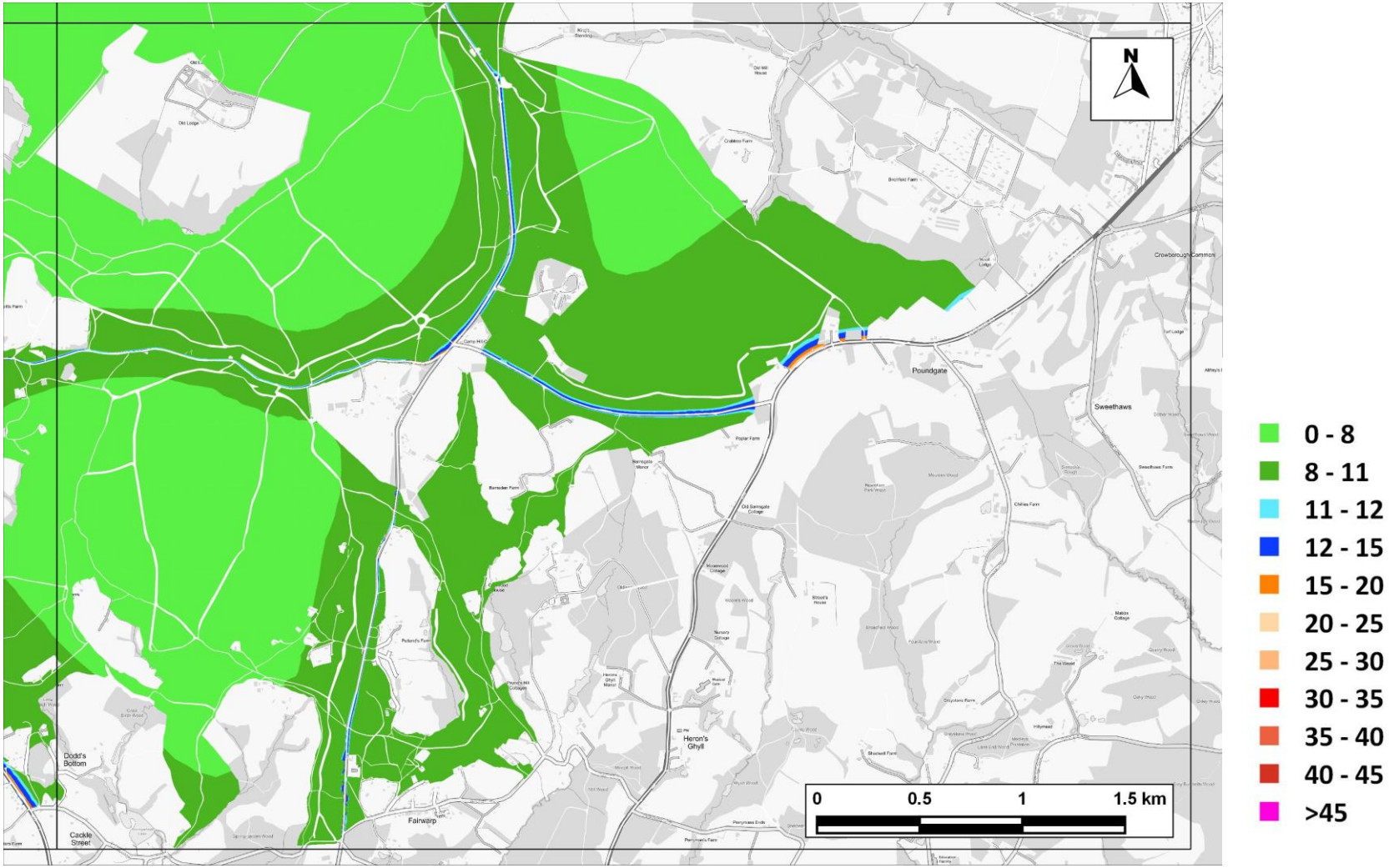


Figure A8.40: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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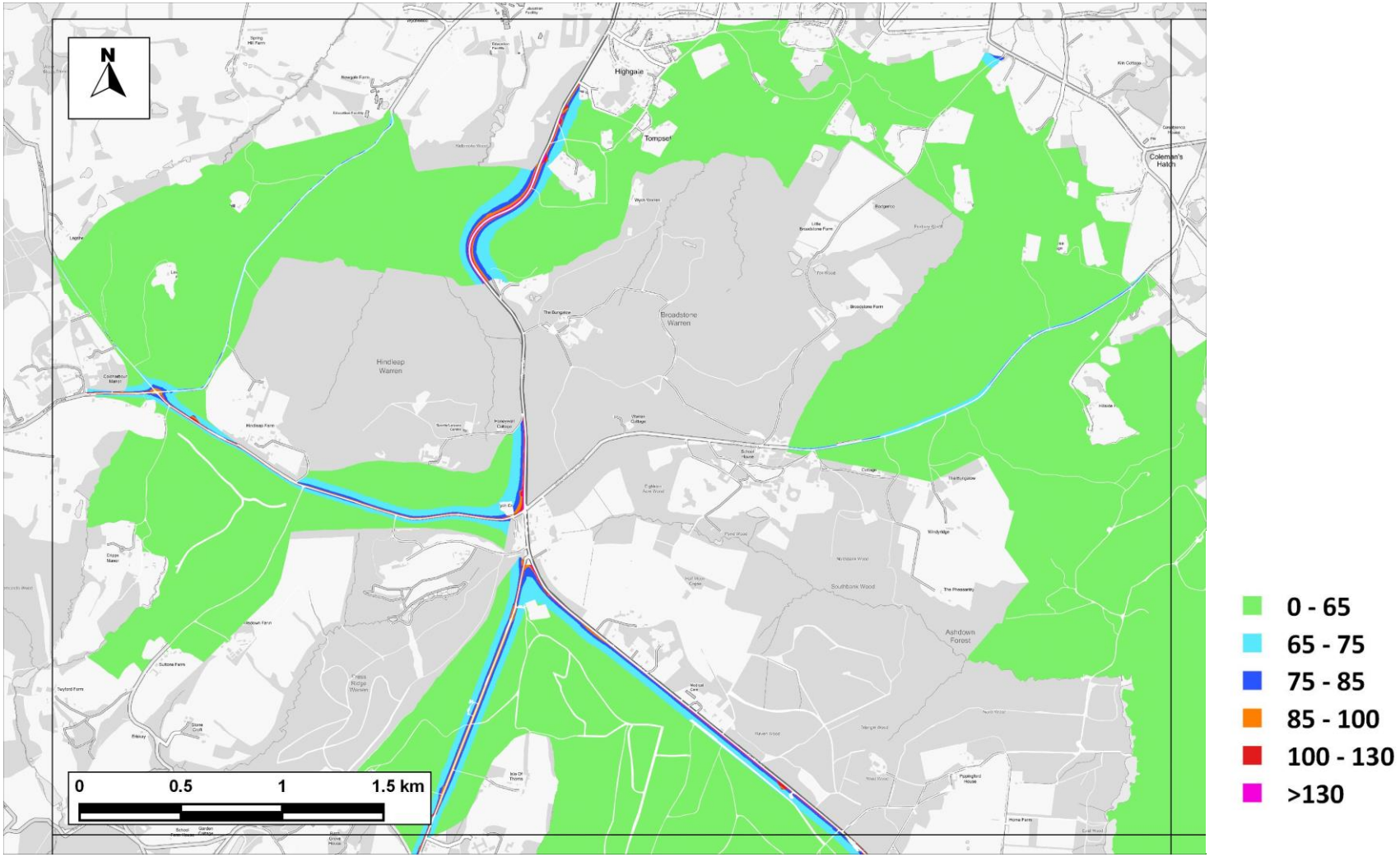


Figure A8.41: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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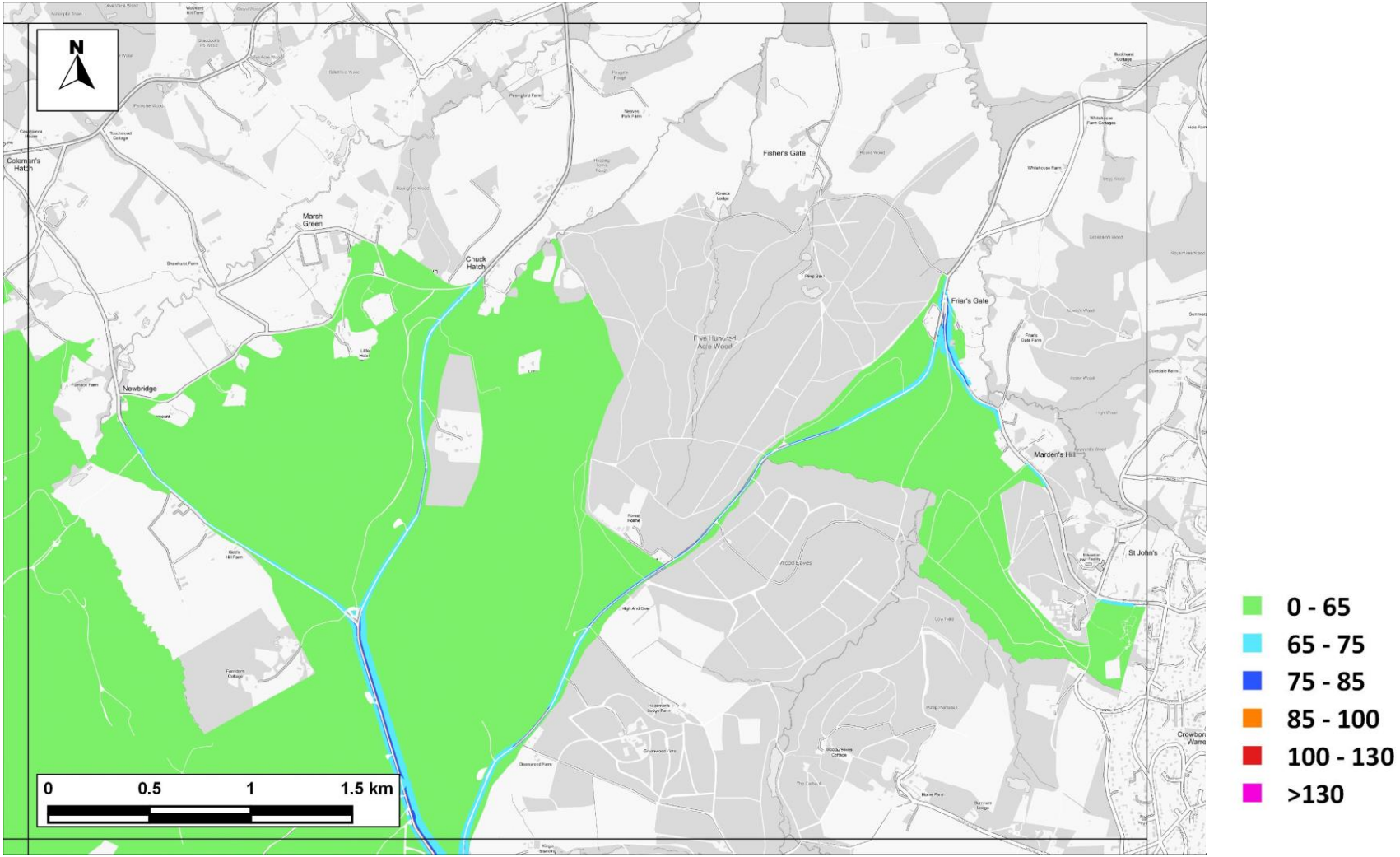


Figure A8.42: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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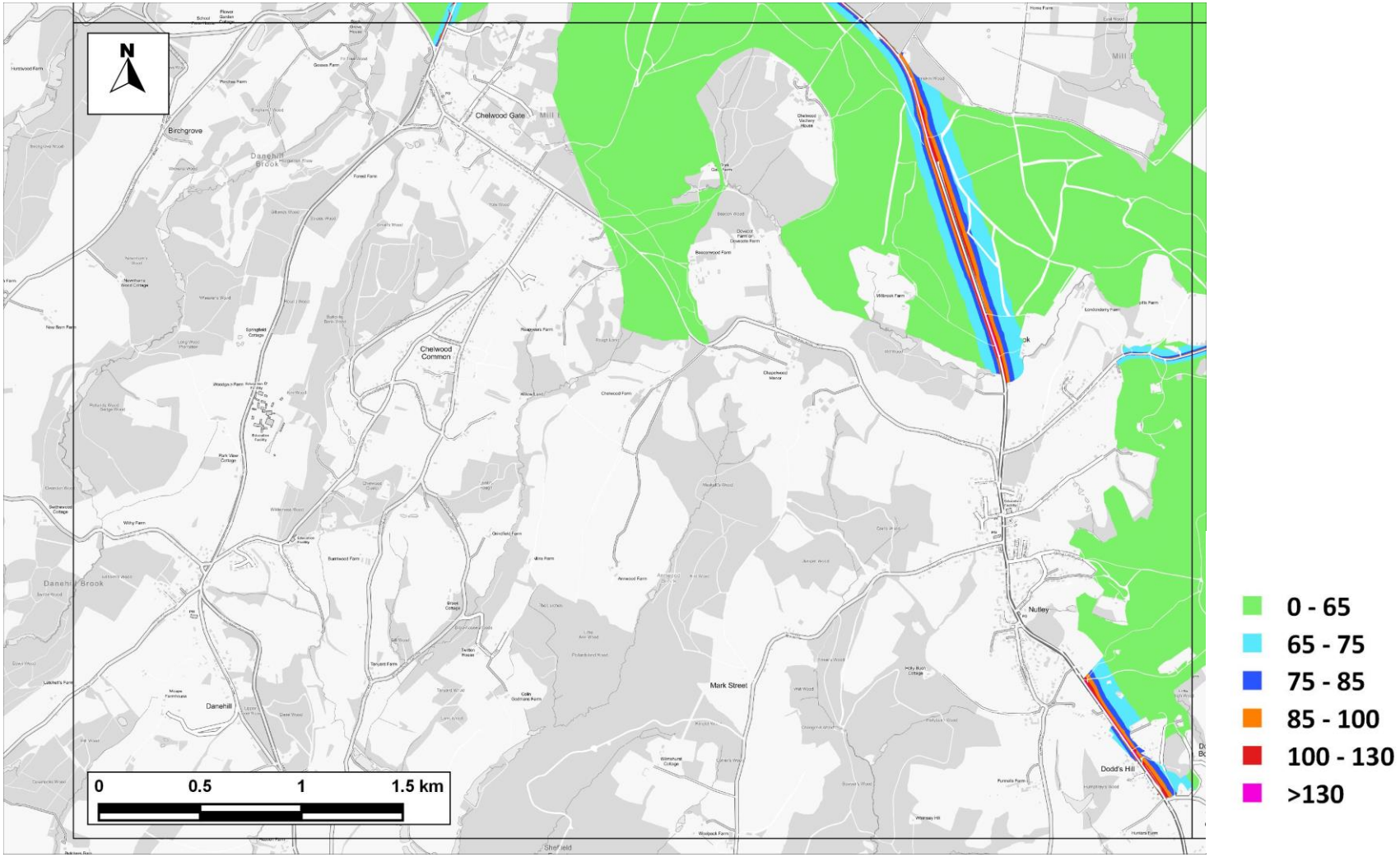


Figure A8.43: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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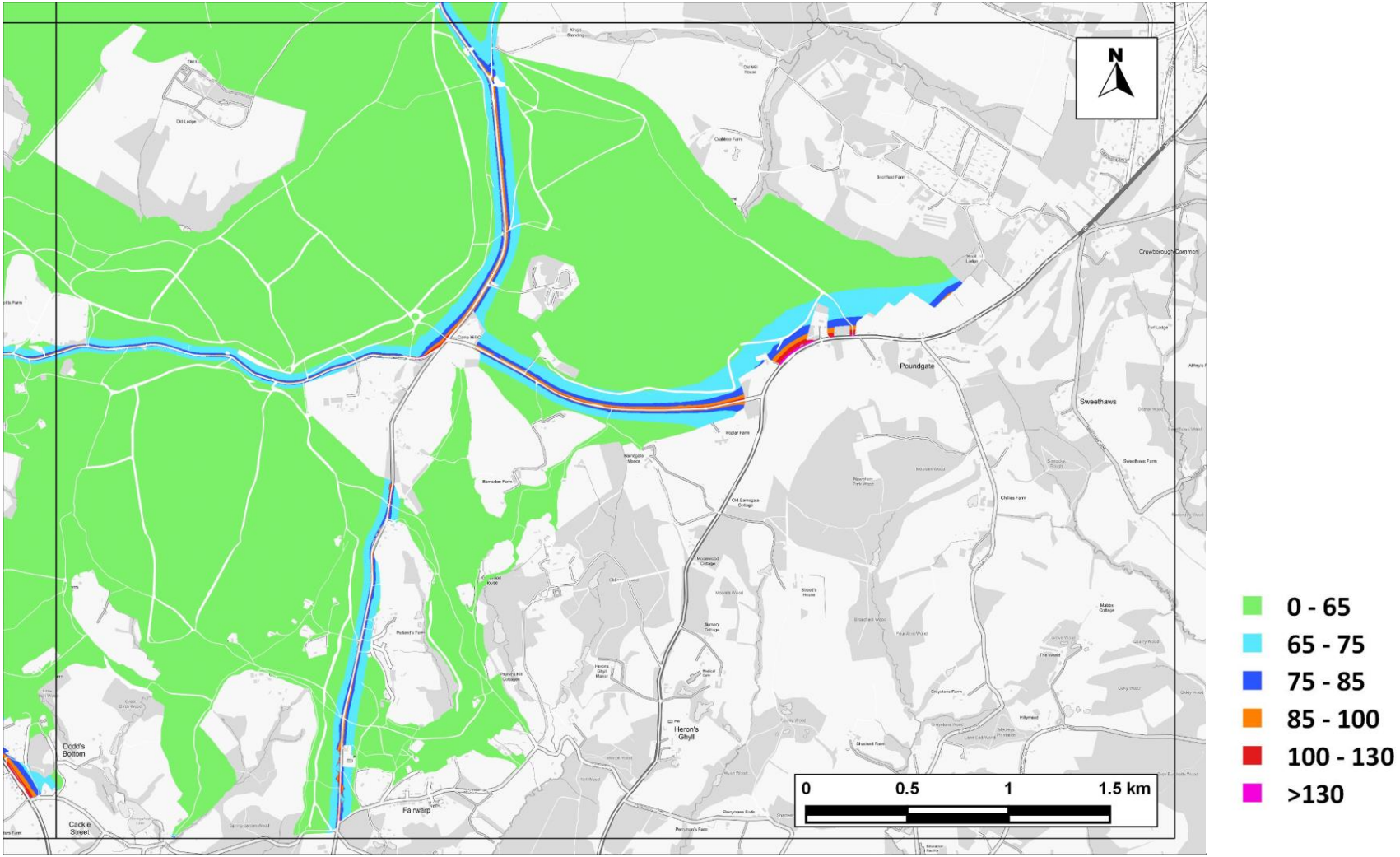


Figure A8.44: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 No WDC-Growth (Emissions - C)

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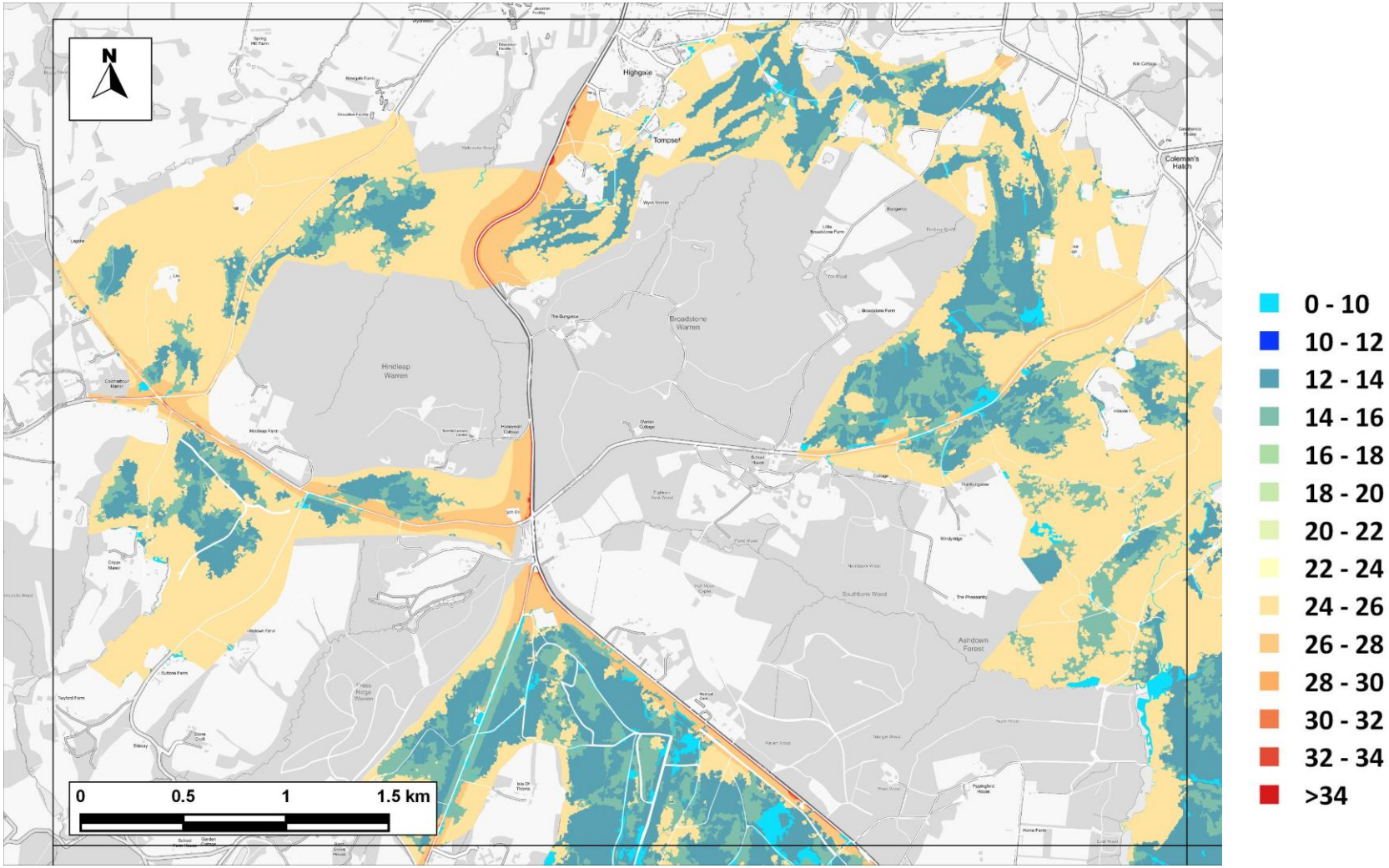


Figure A8.45: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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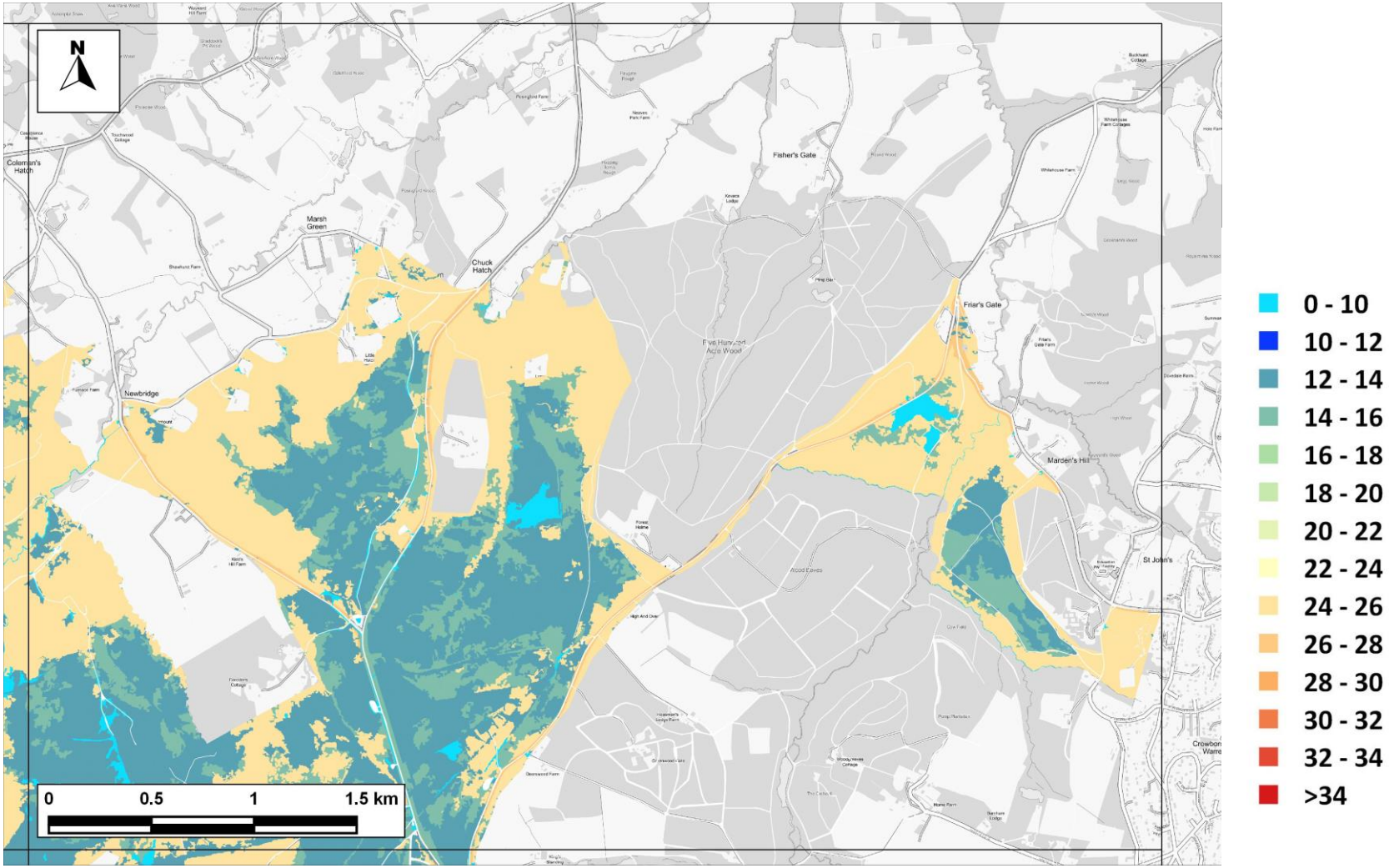


Figure A8.46: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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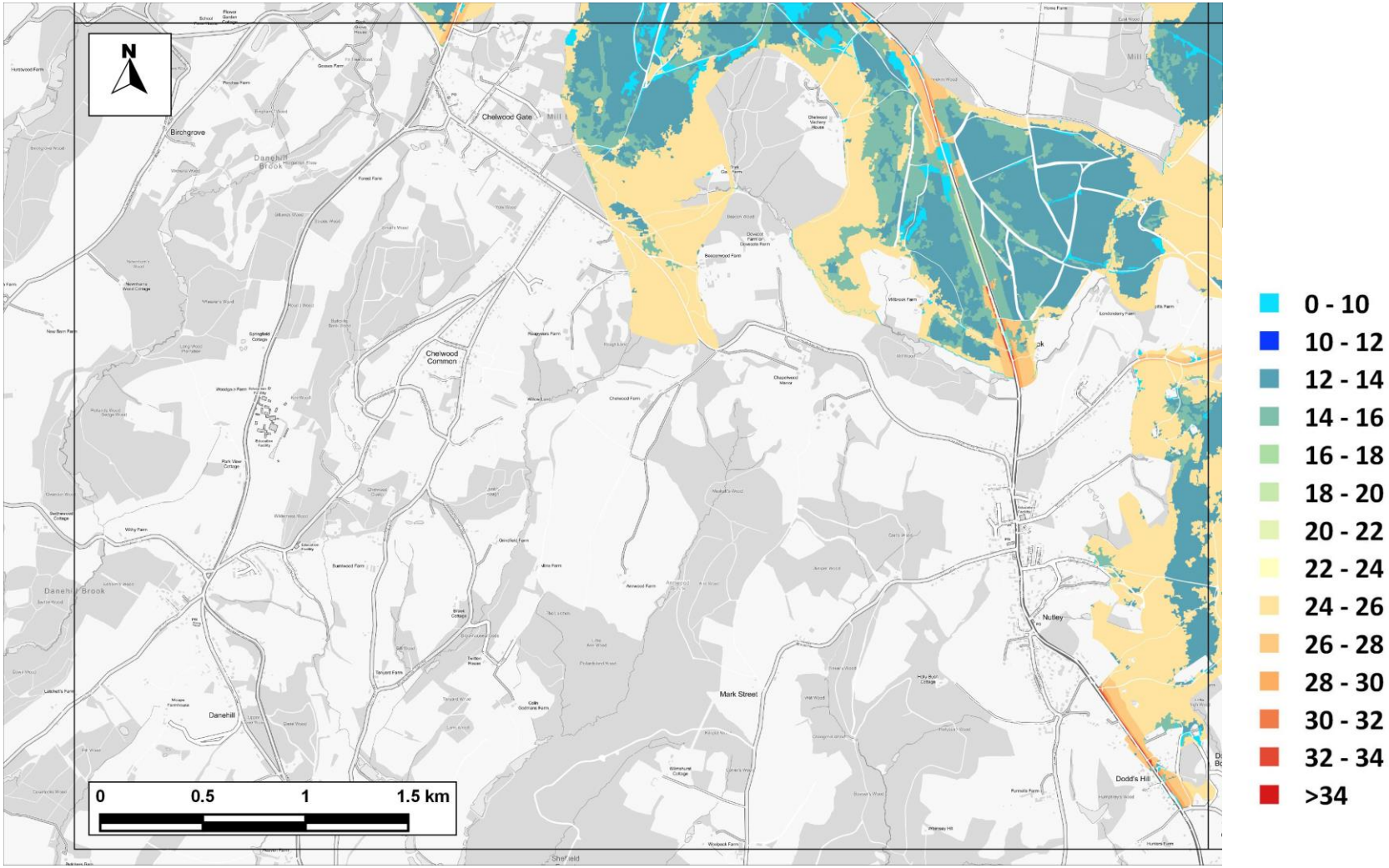


Figure A8.47: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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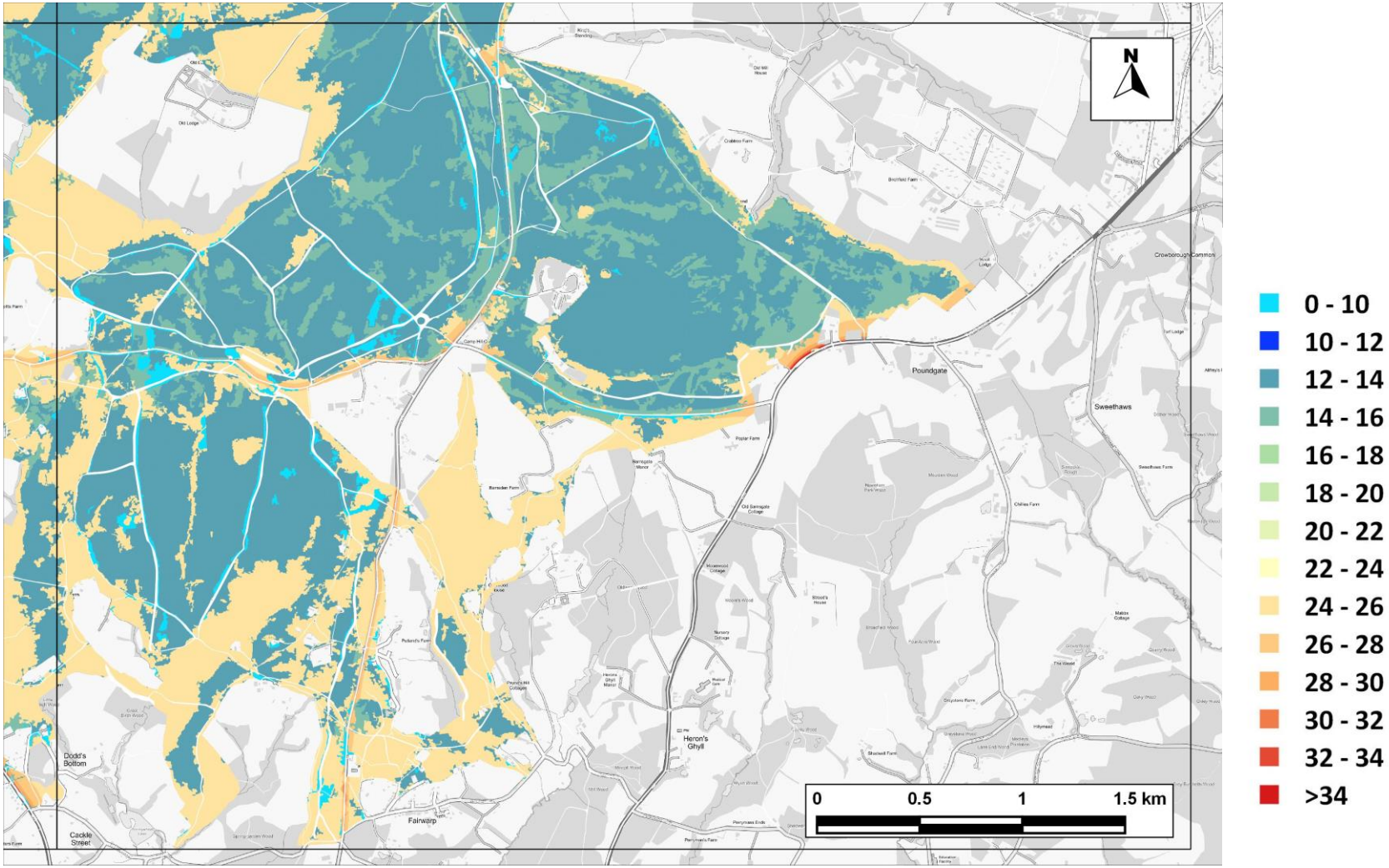


Figure A8.48: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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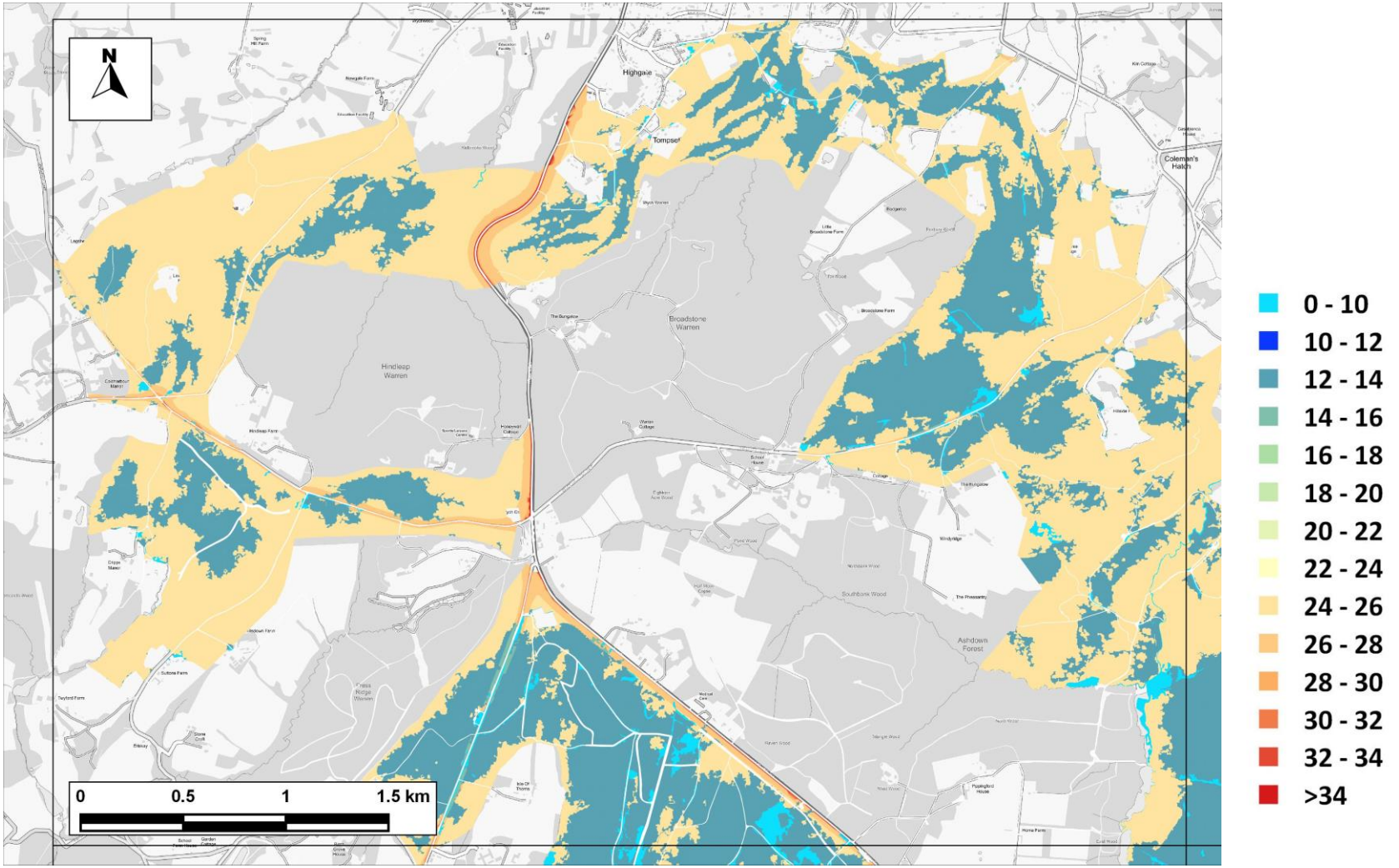


Figure A8.49: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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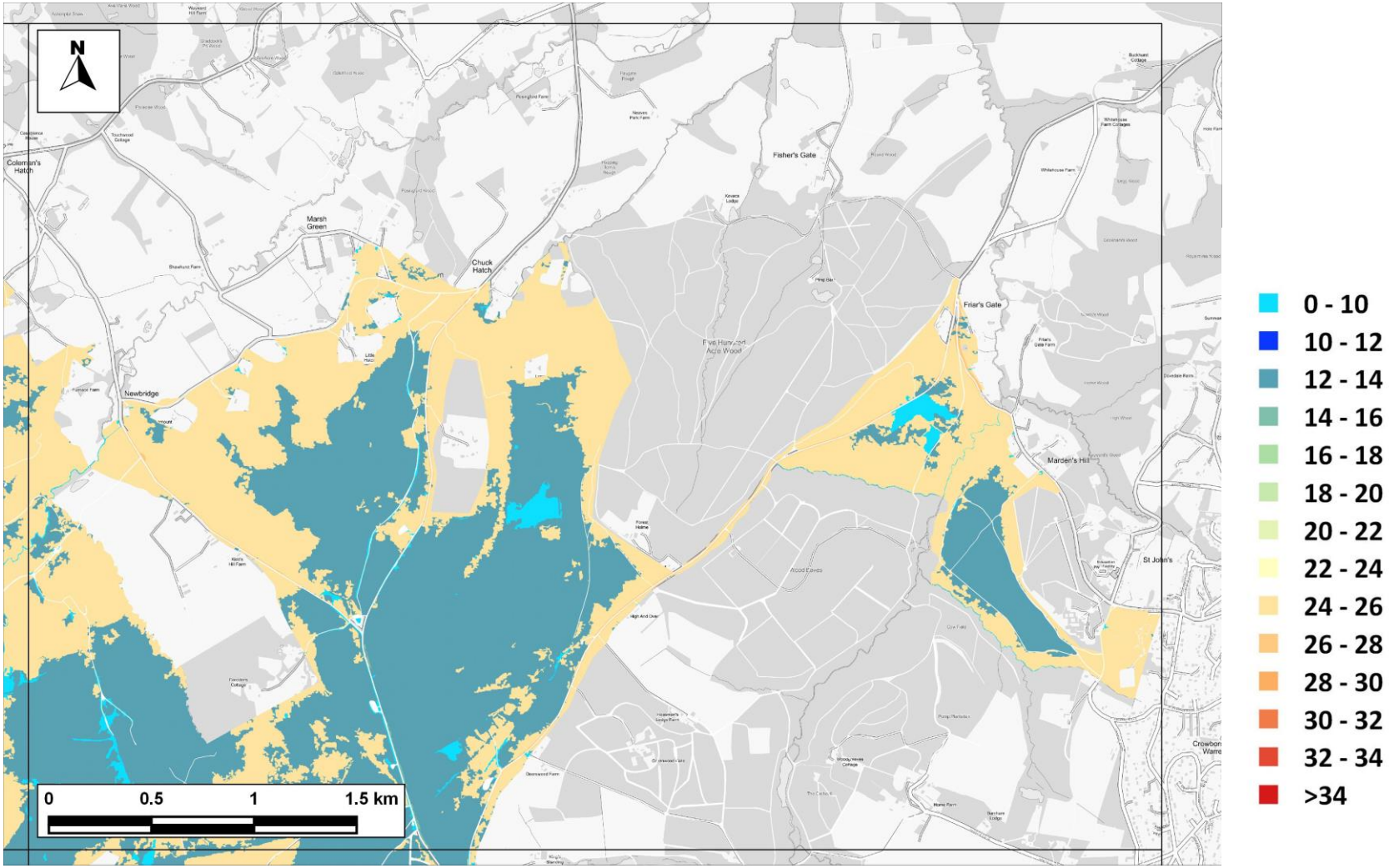


Figure A8.50: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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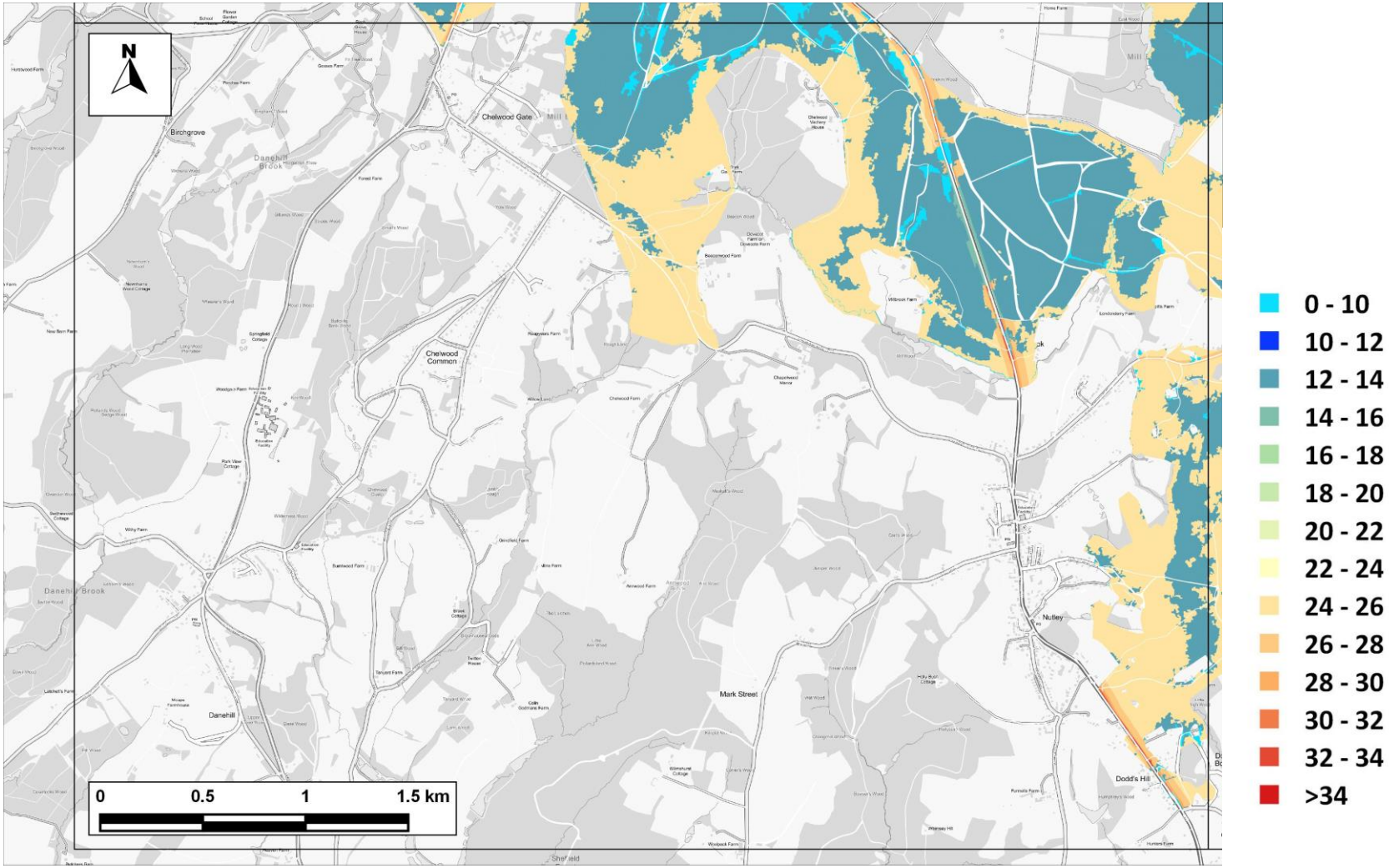


Figure A8.51: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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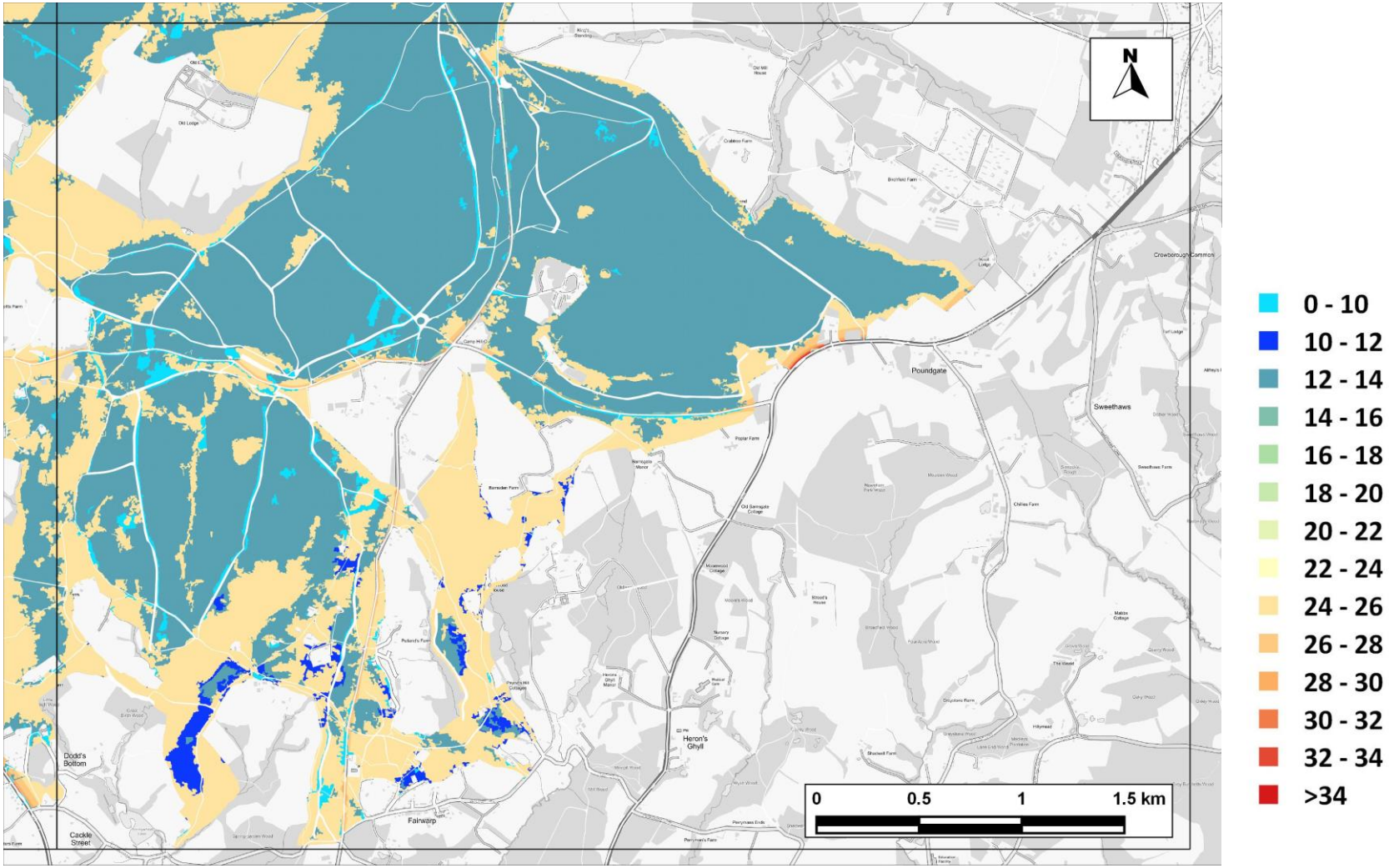


Figure A8.52: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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Appendix 9. Maps of 2028 With Plan Model Results

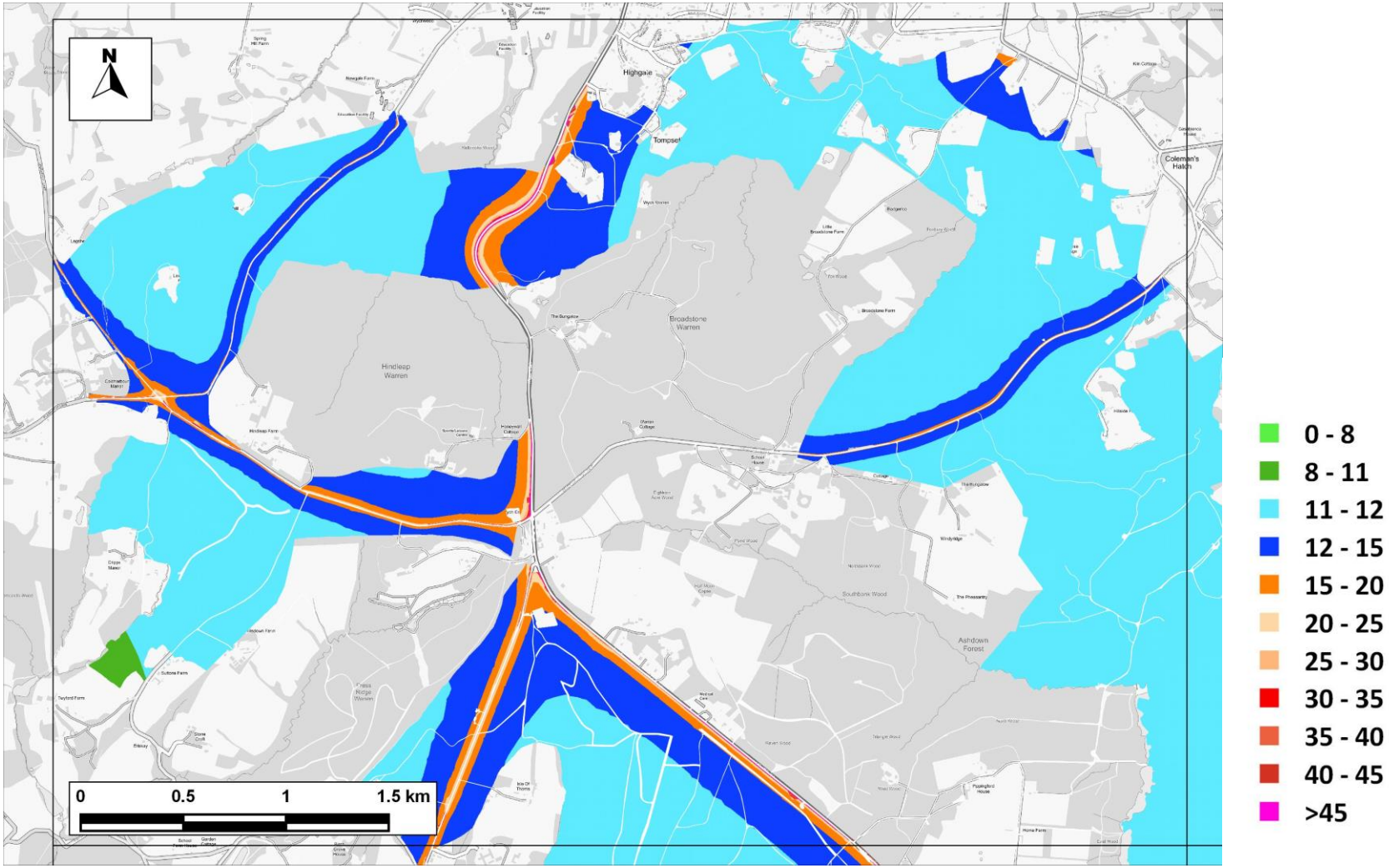


Figure A9.1: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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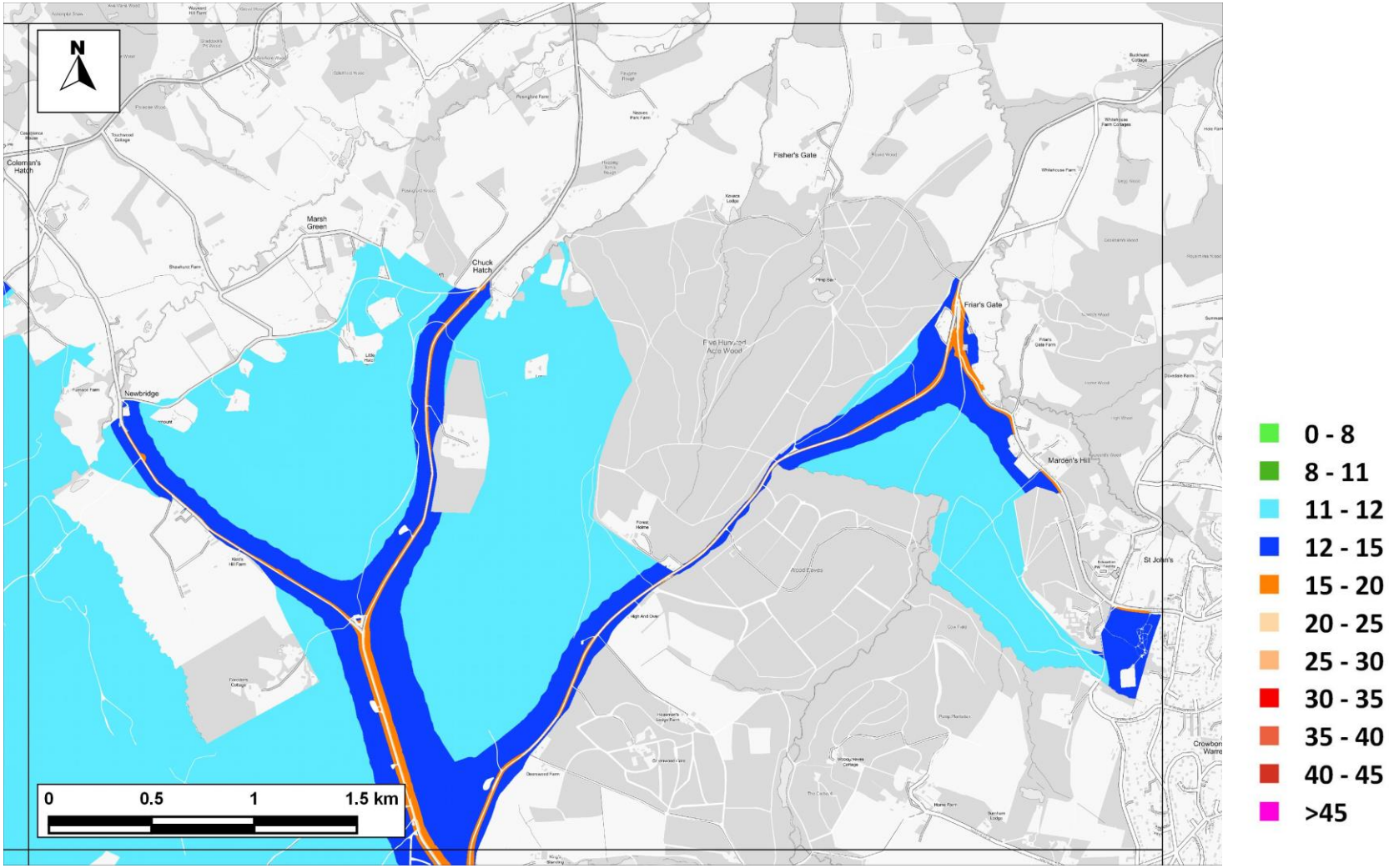


Figure A9.2: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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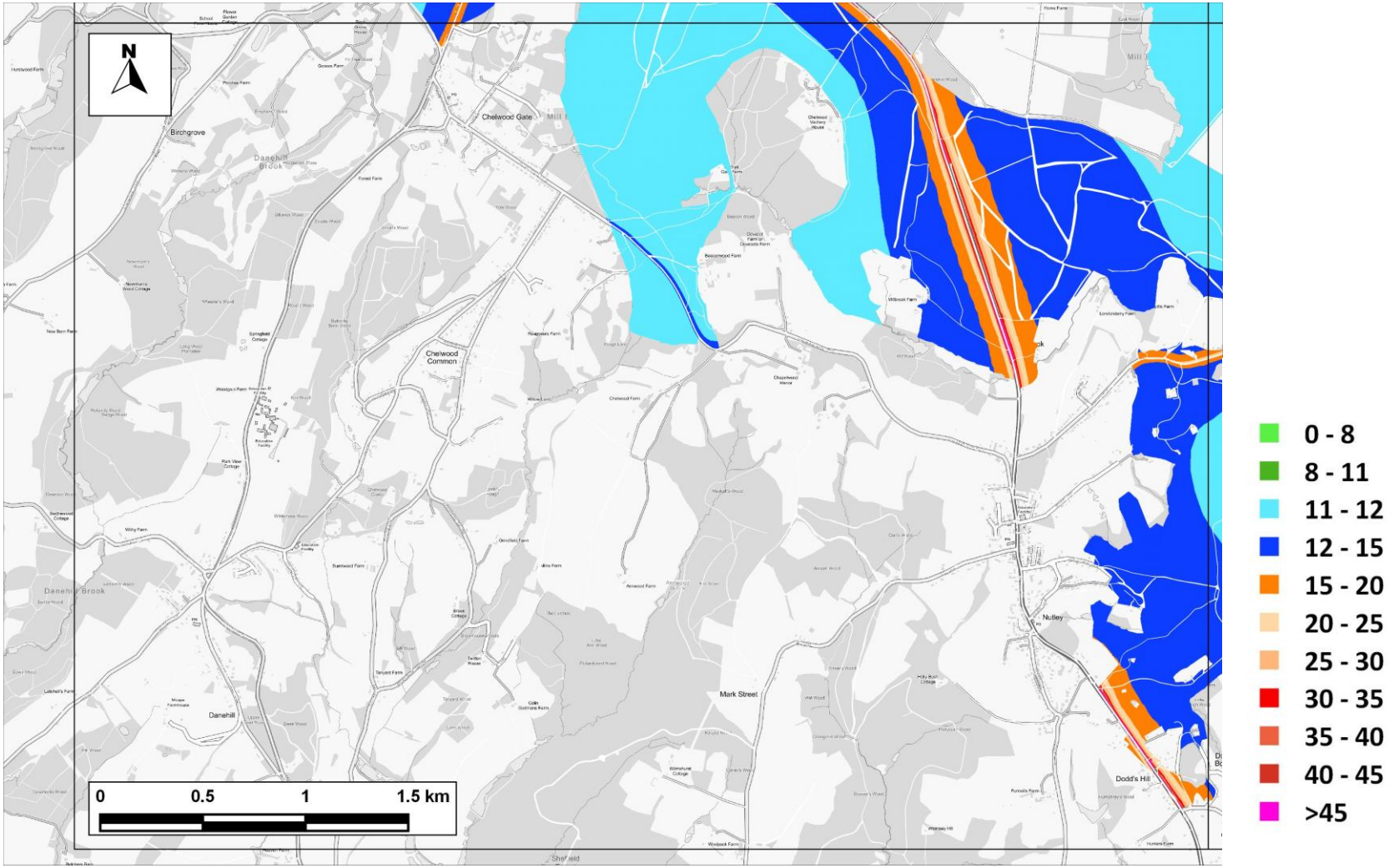


Figure A9.3: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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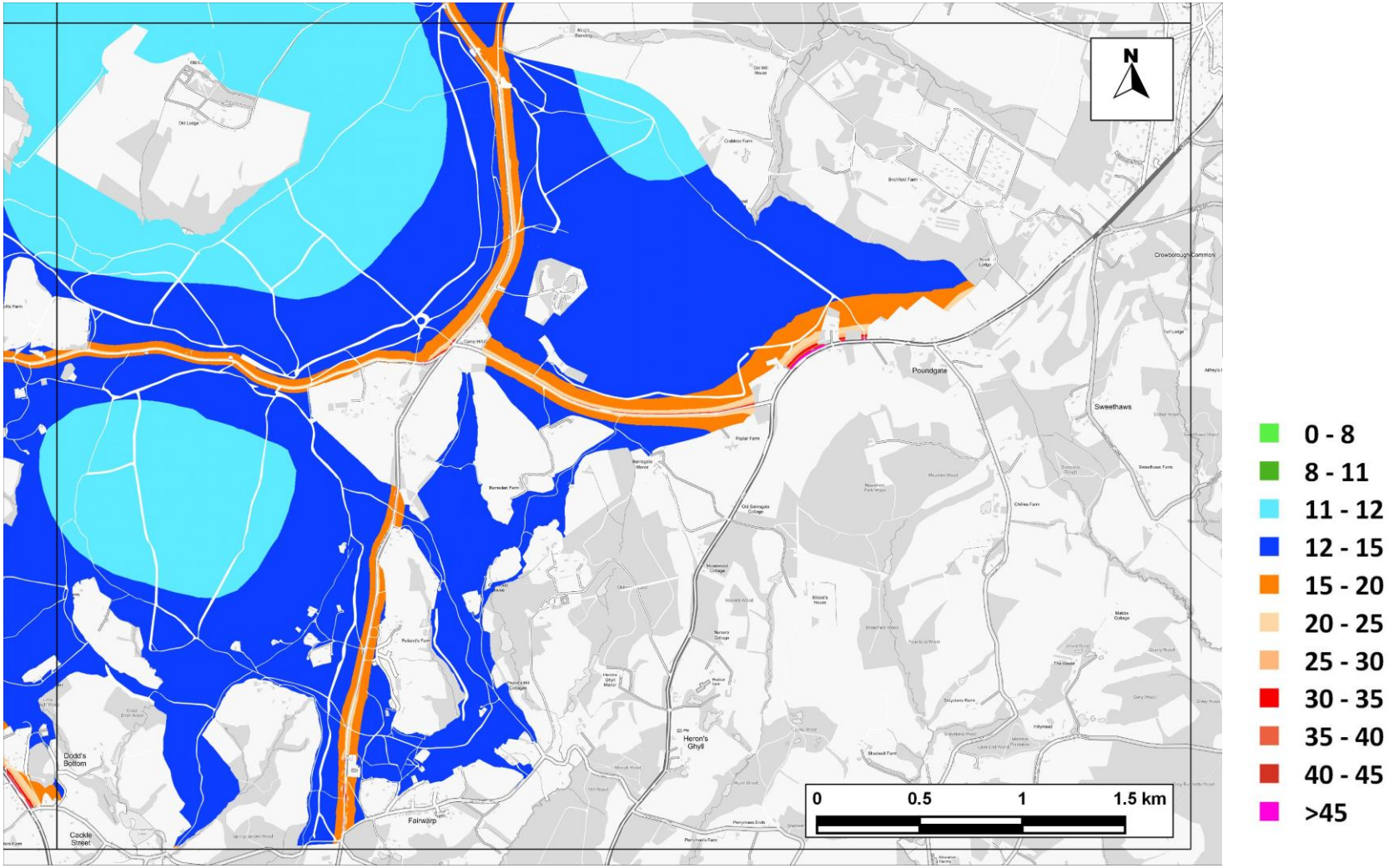


Figure A9.4: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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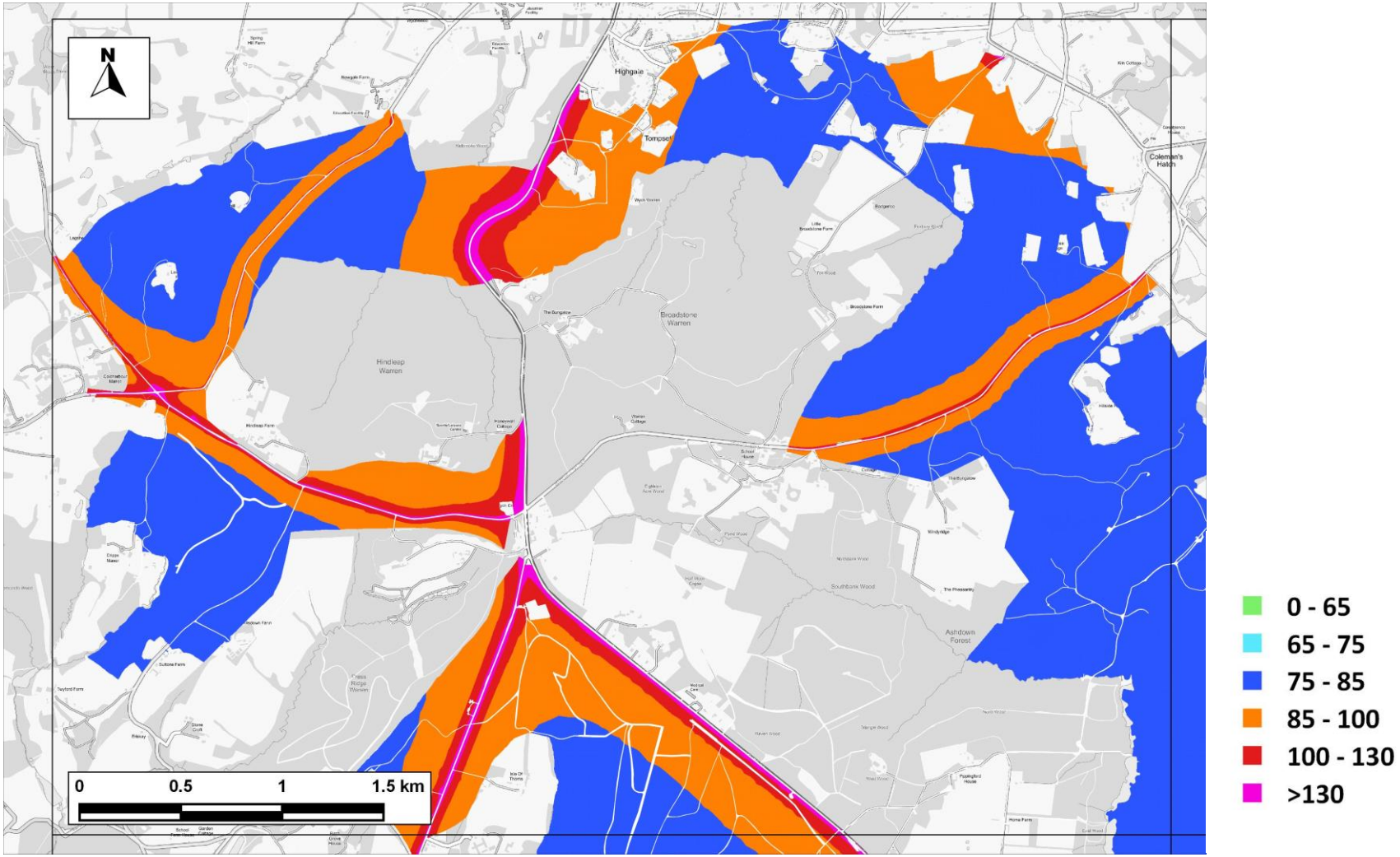


Figure A9.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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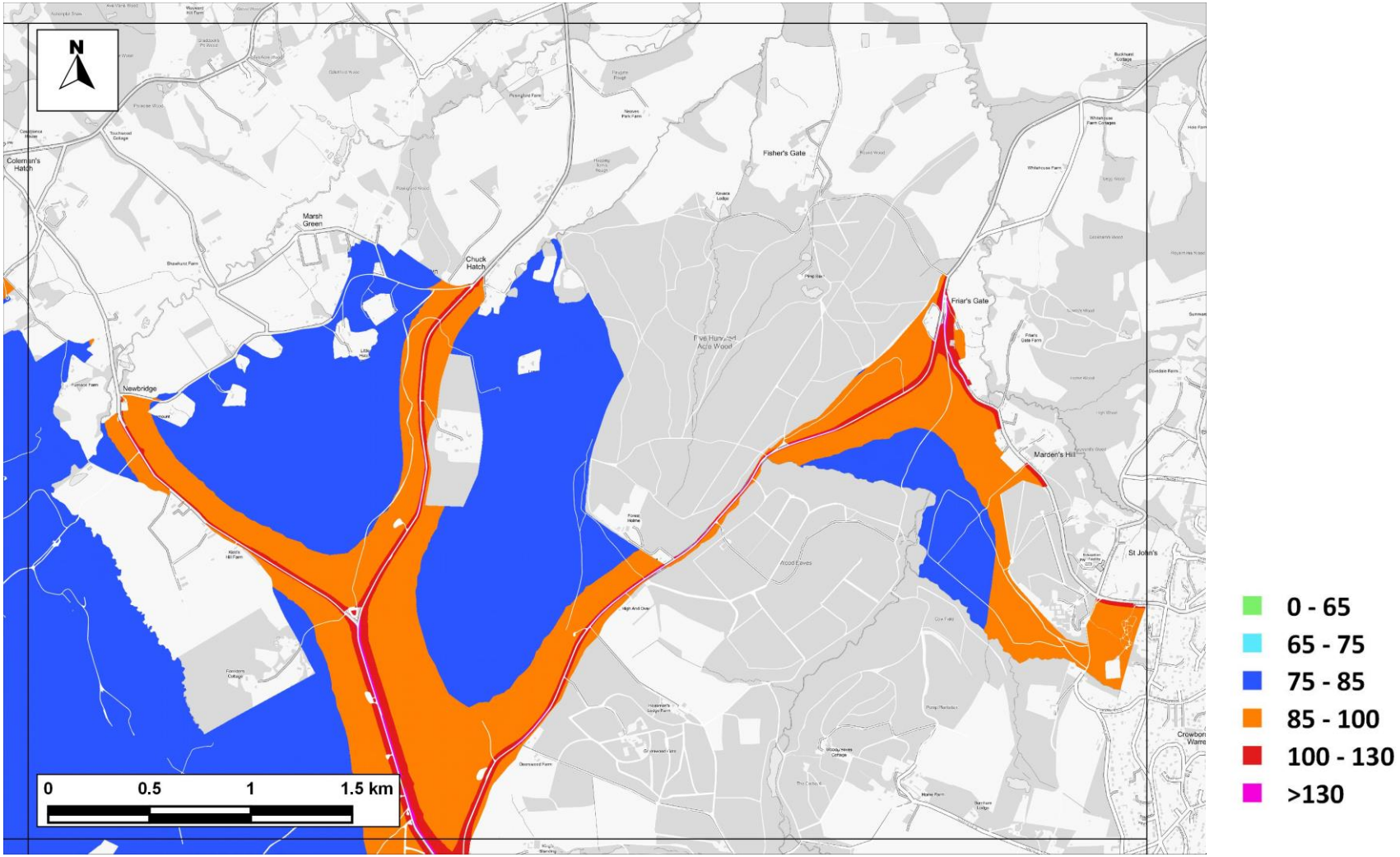


Figure A9.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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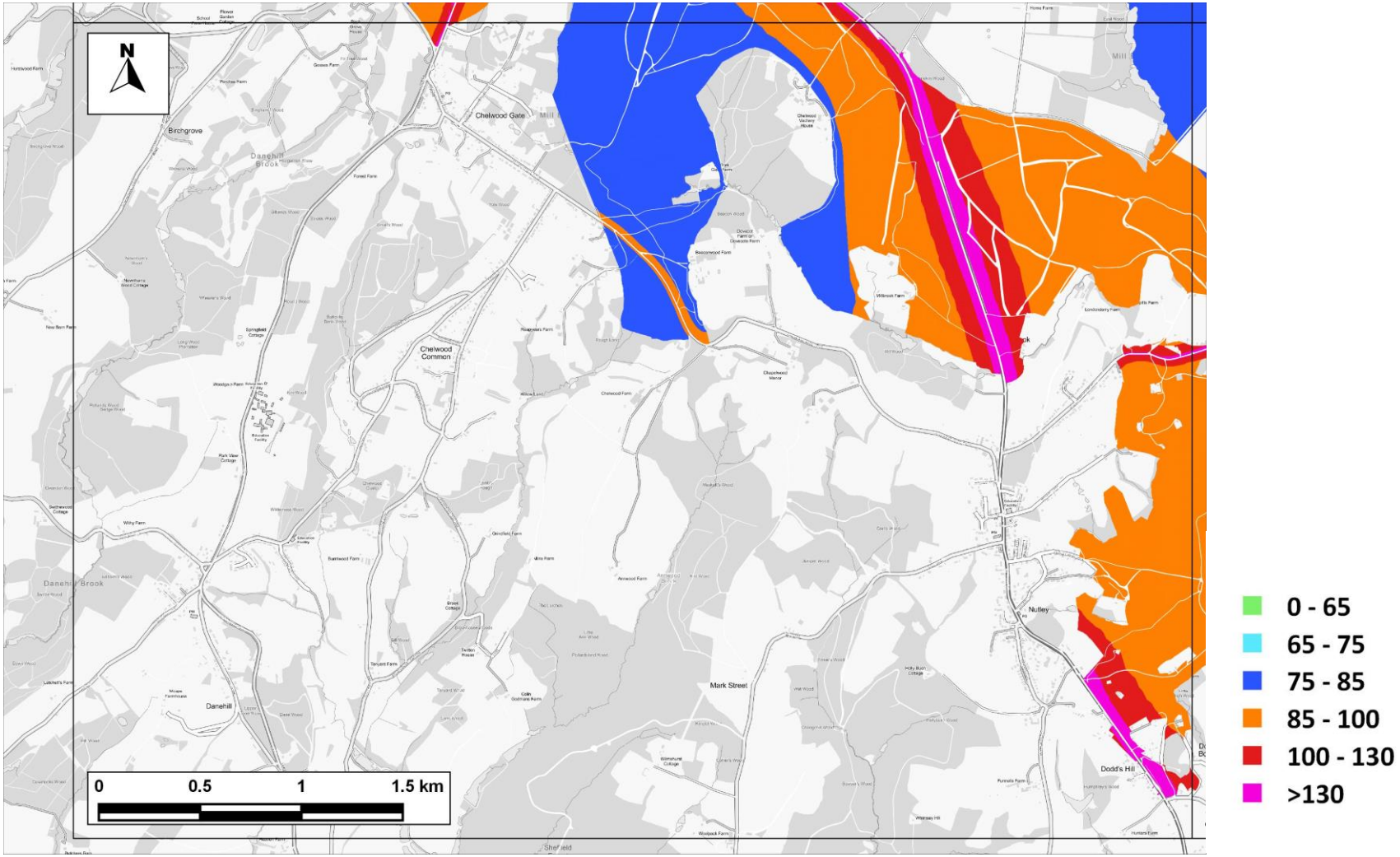


Figure A9.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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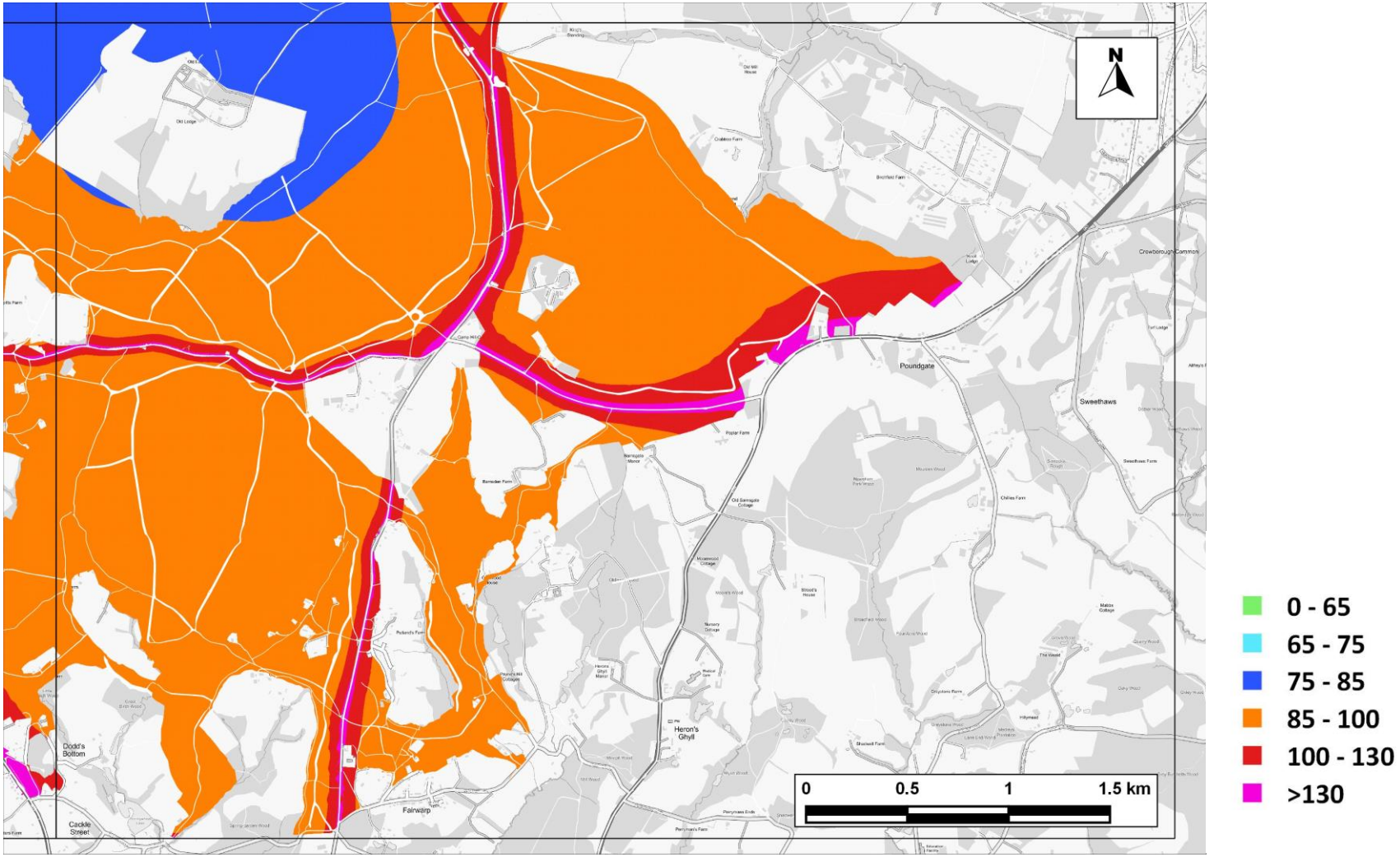


Figure A9.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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Figure A9.9: Annual Mean NH_3 in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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Figure A9.10: Annual Mean NH_3 in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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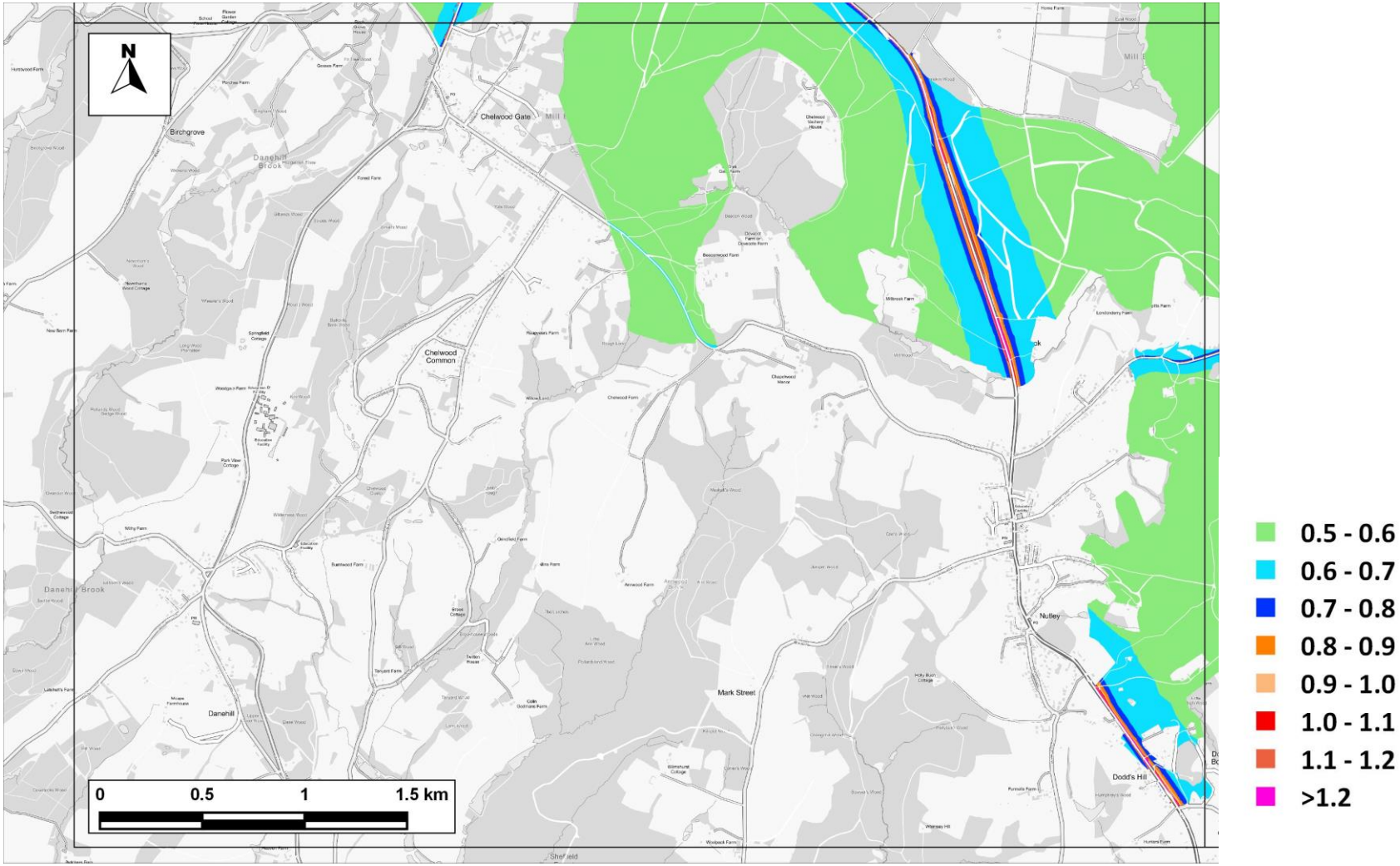


Figure A9.11: Annual Mean NH_3 in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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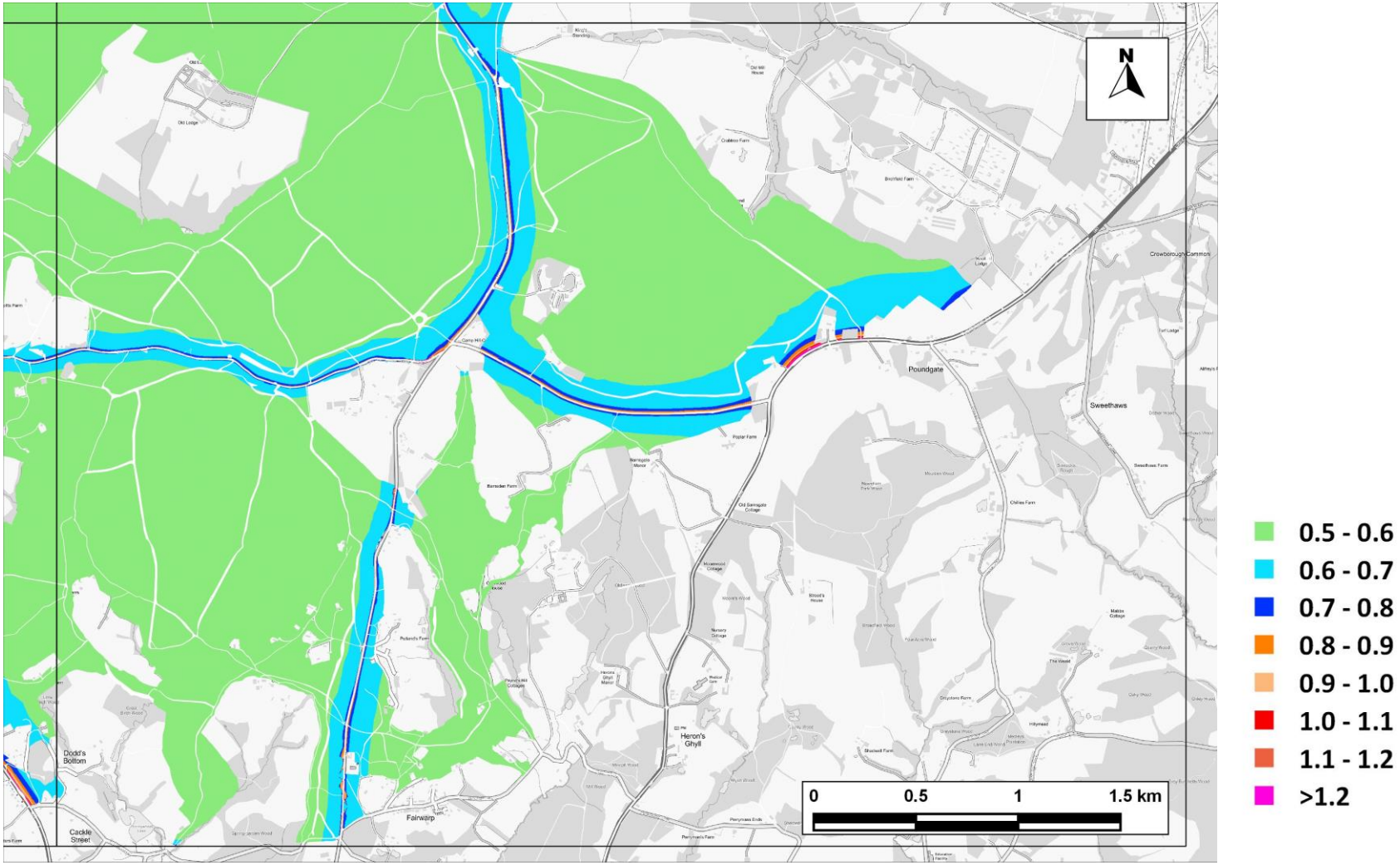


Figure A9.12: Annual Mean NH_3 in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - A)

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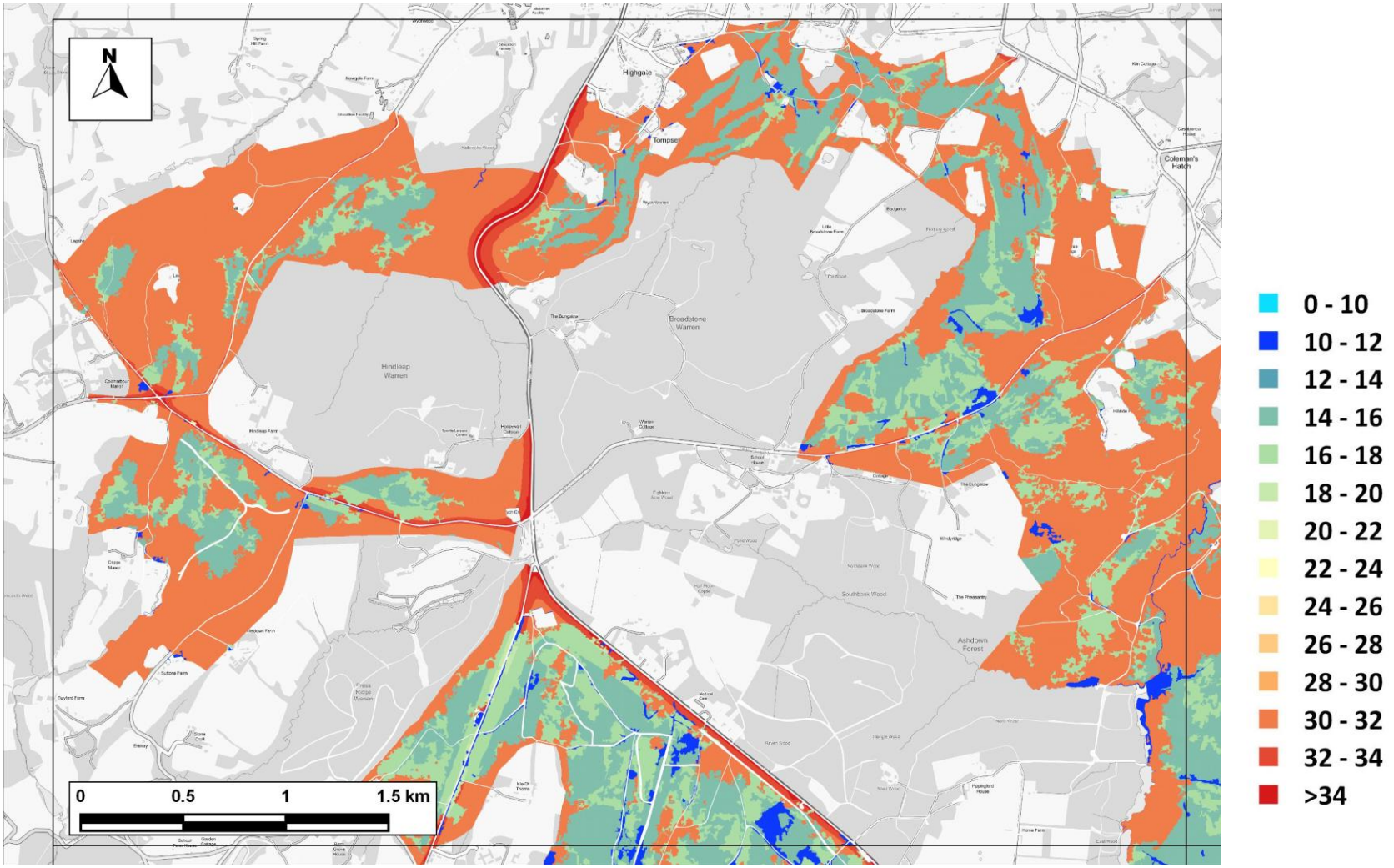


Figure A9.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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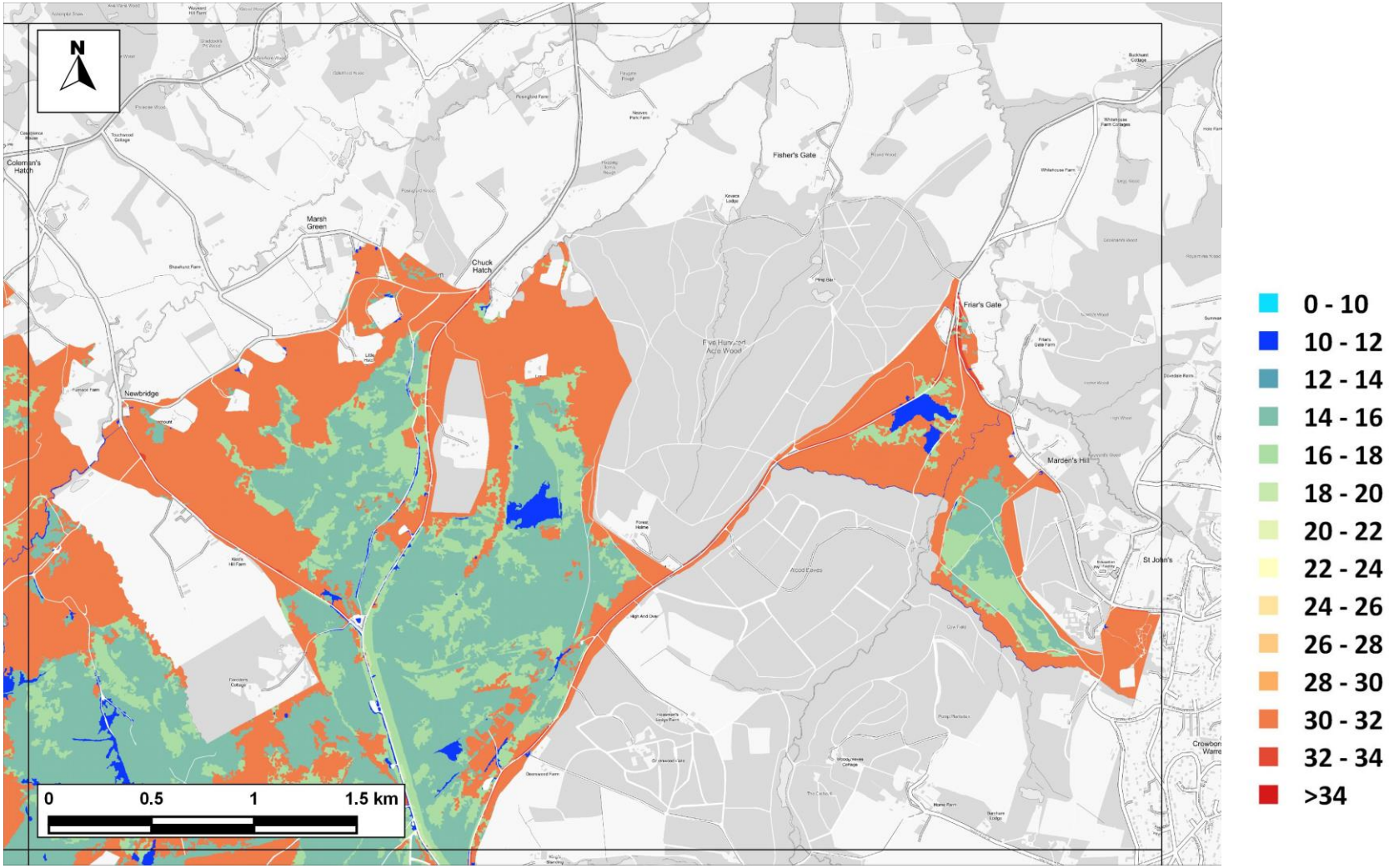


Figure A9.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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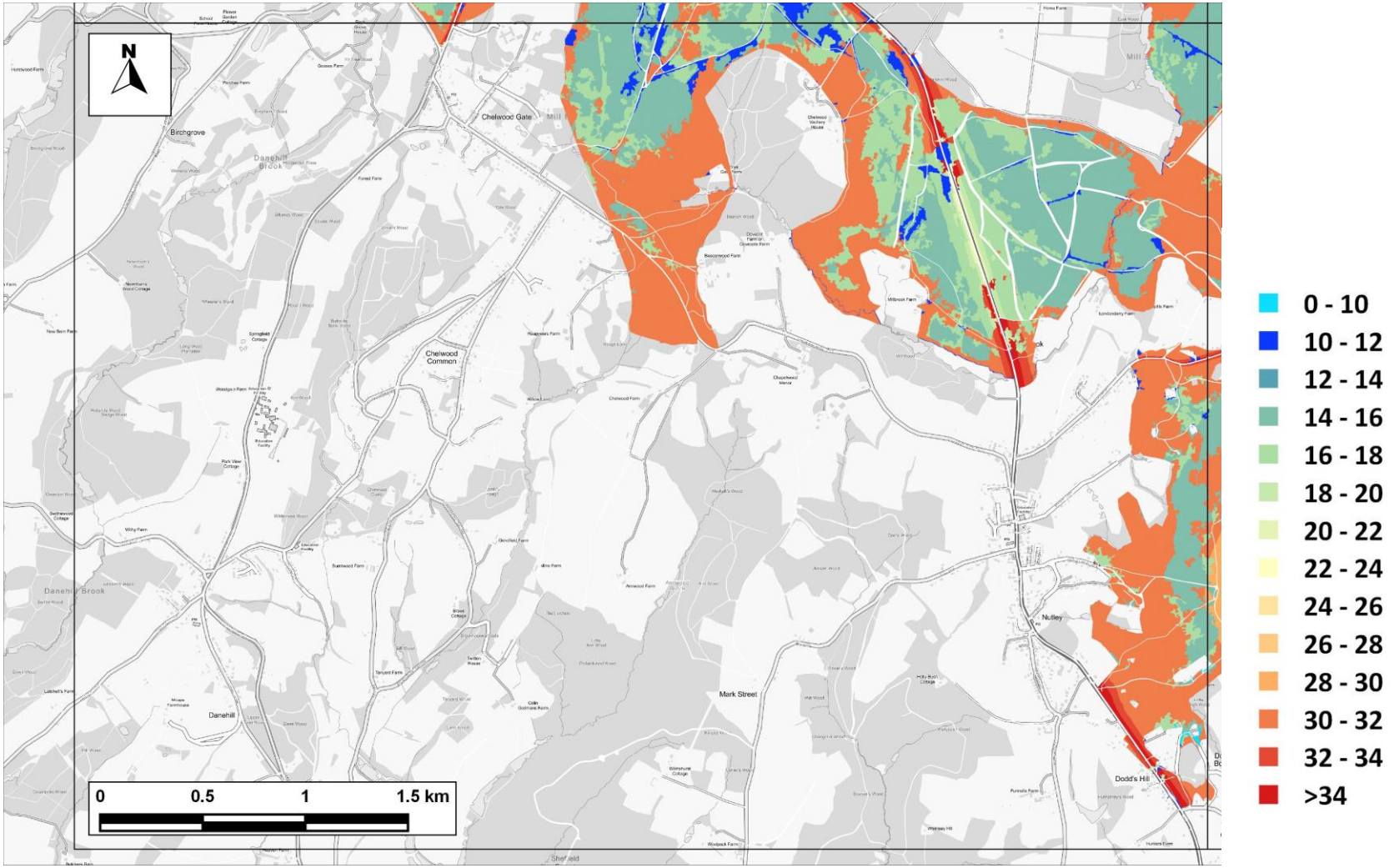


Figure A9.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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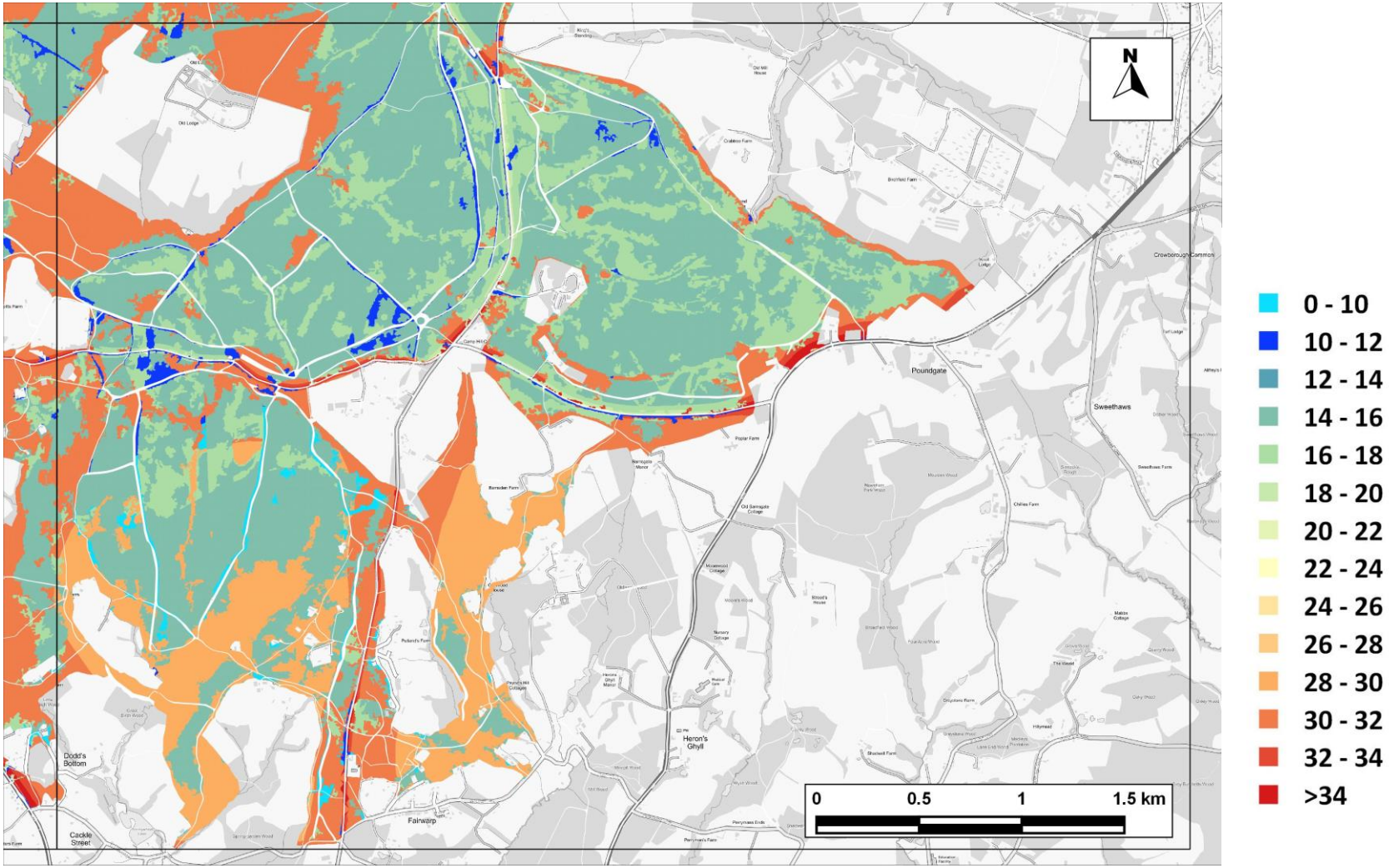


Figure A9.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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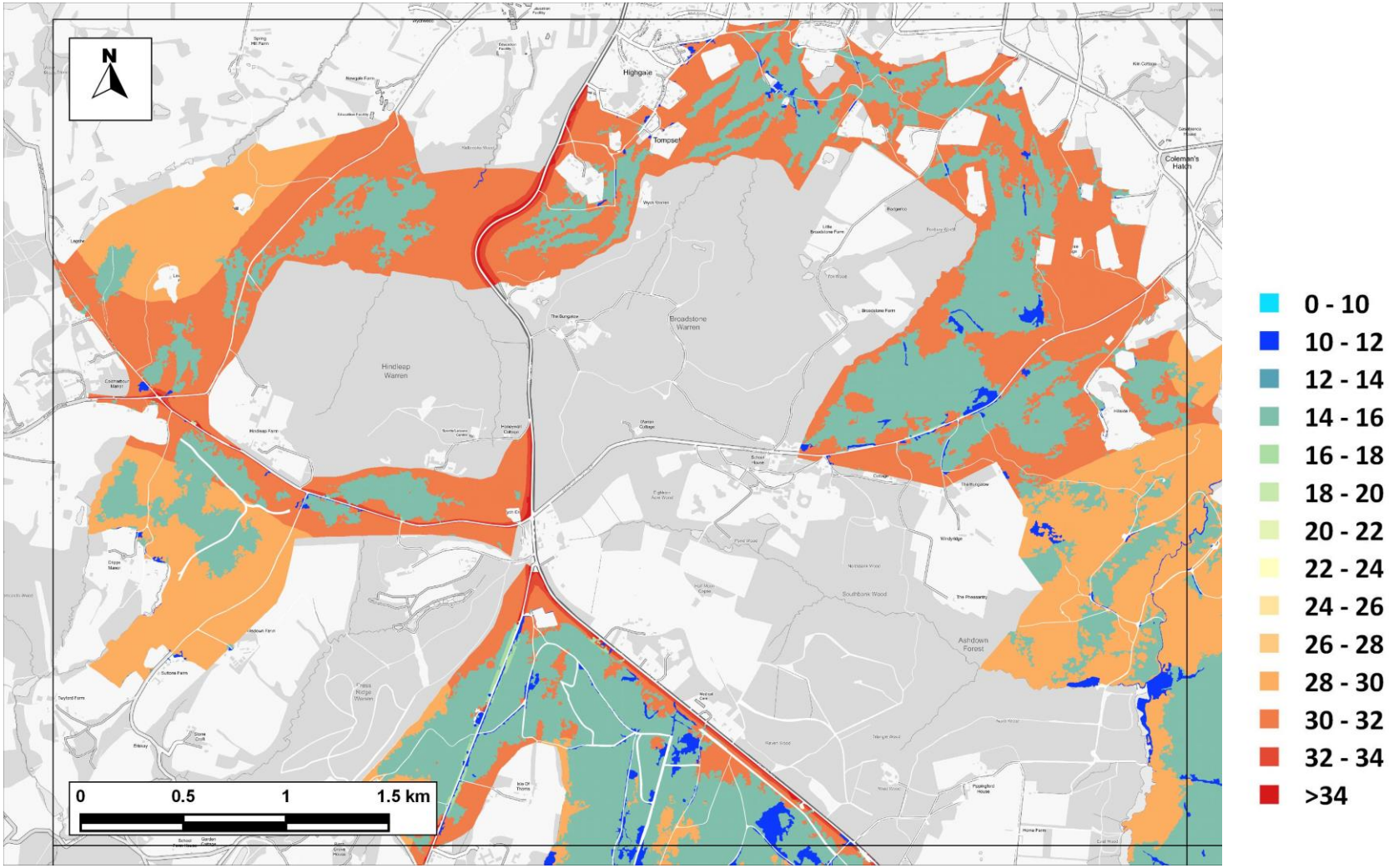


Figure A9.17: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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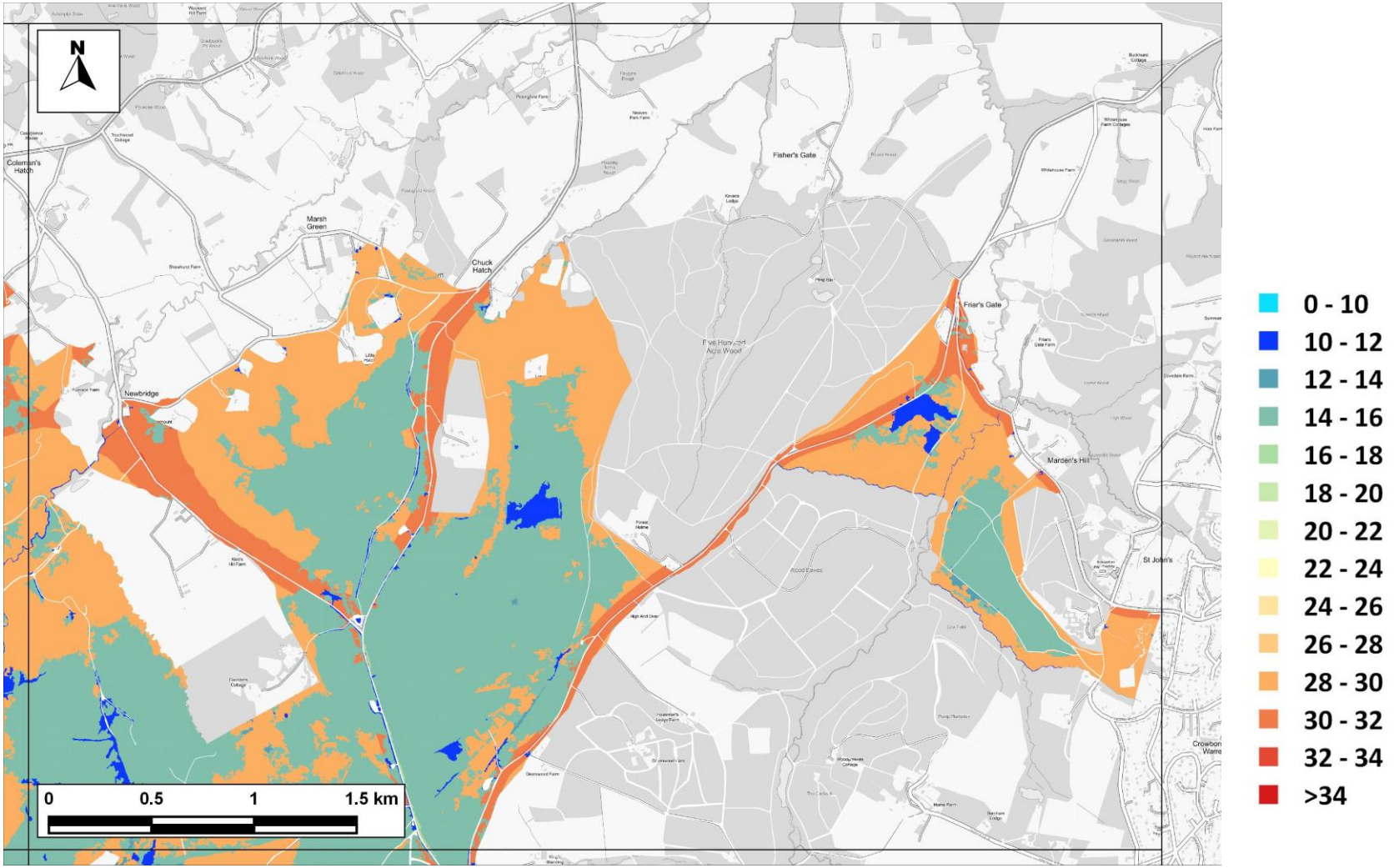


Figure A9.18: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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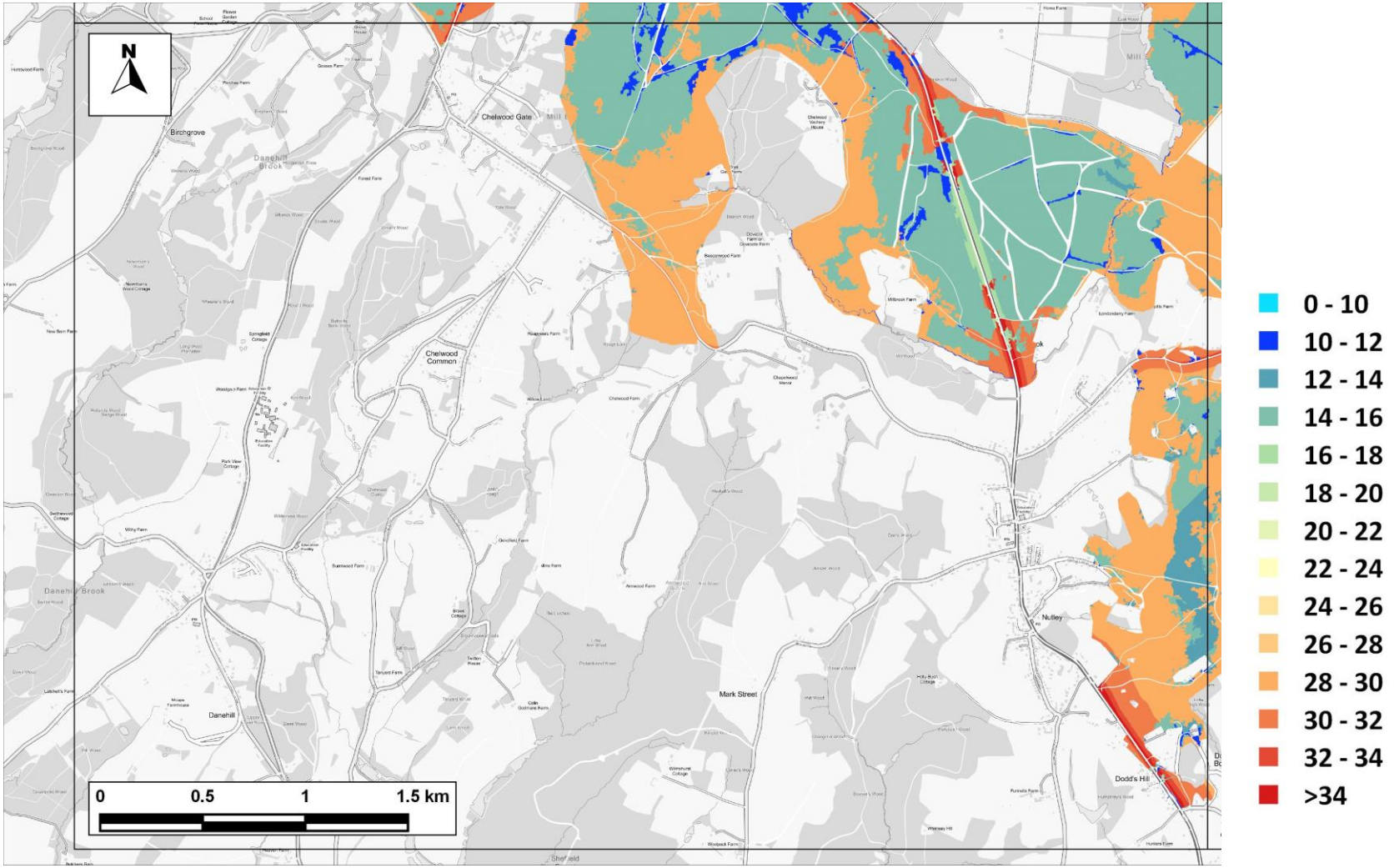


Figure A9.19: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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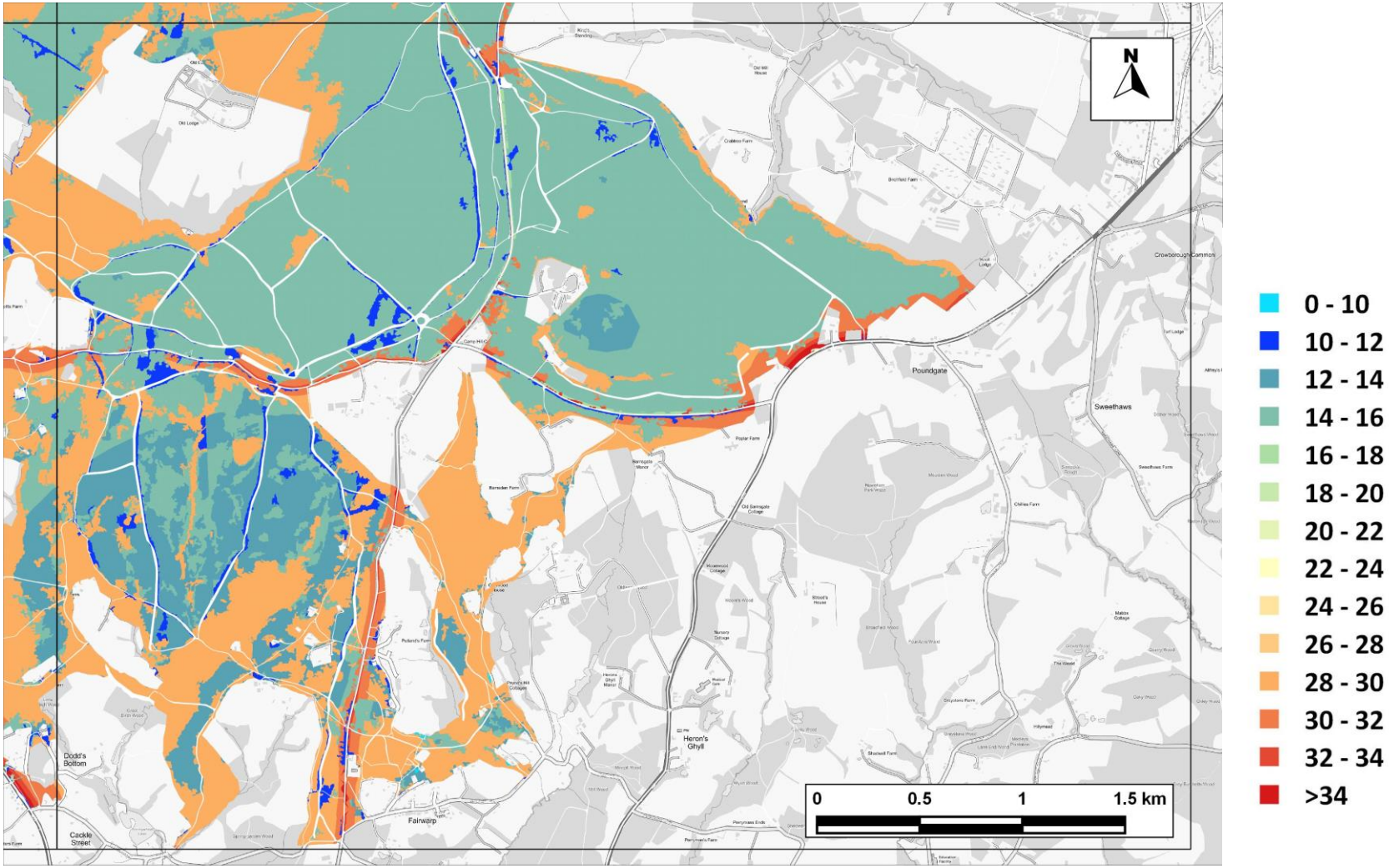


Figure A9.20: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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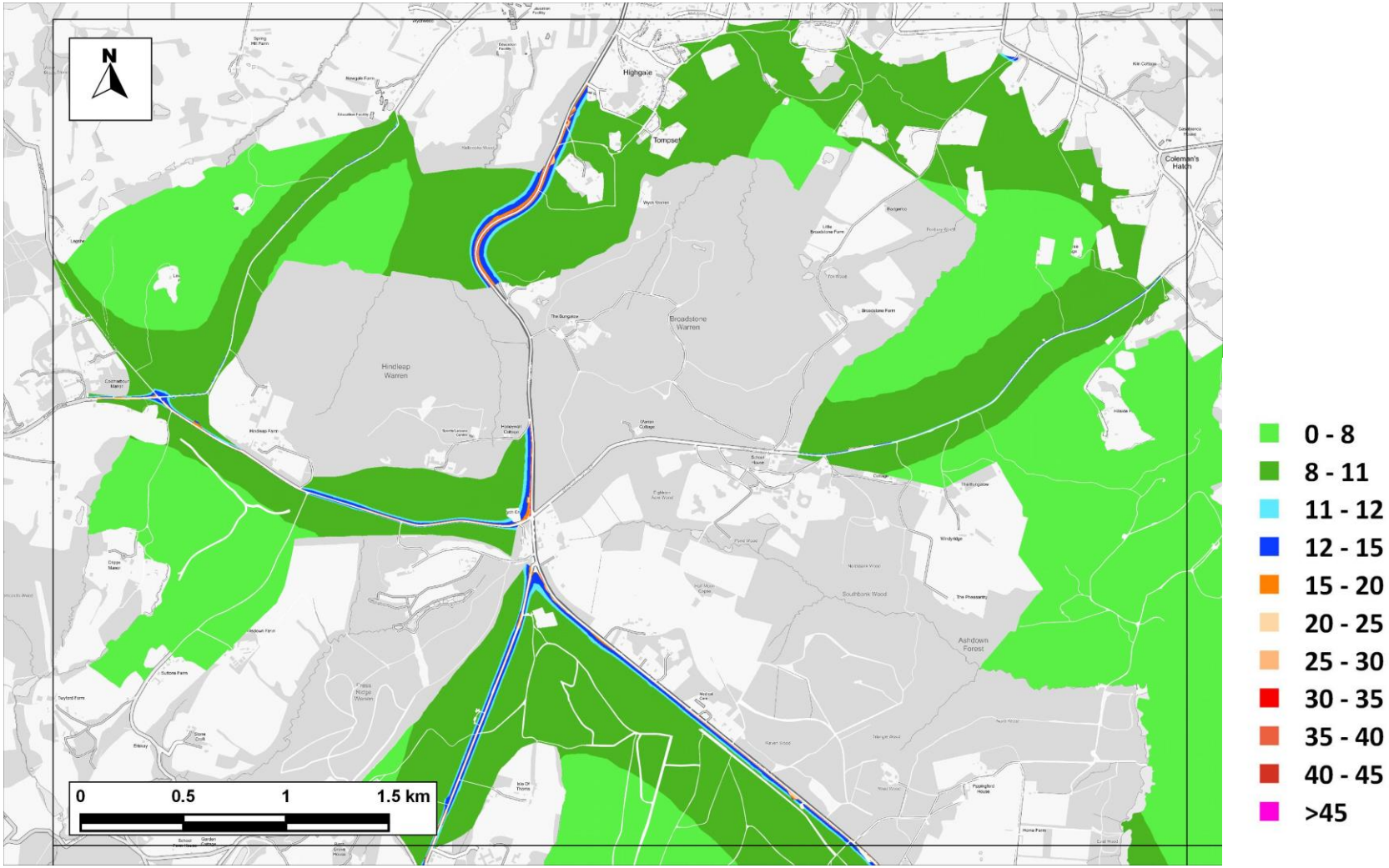


Figure A9.21: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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Figure A9.22: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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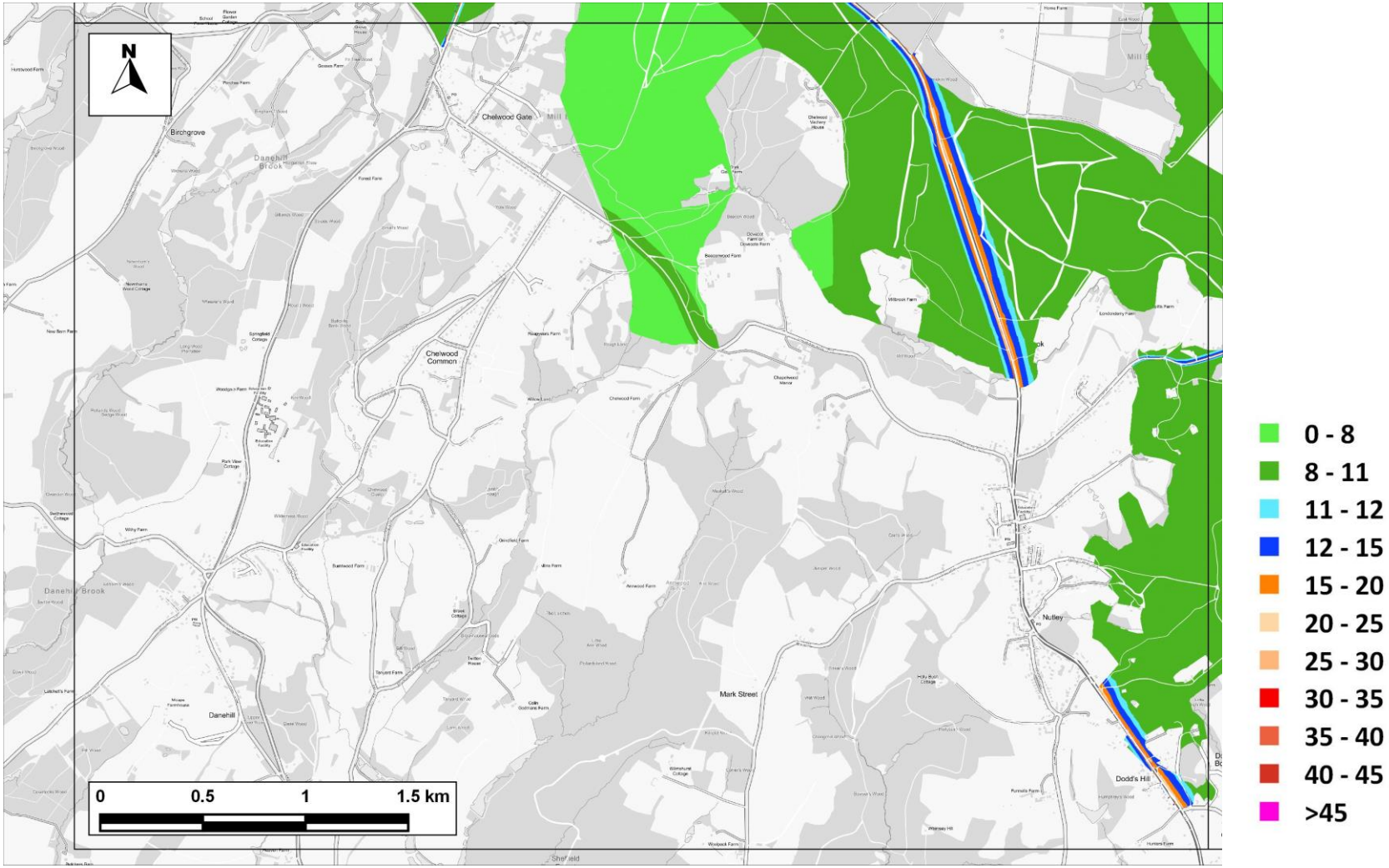


Figure A9.23: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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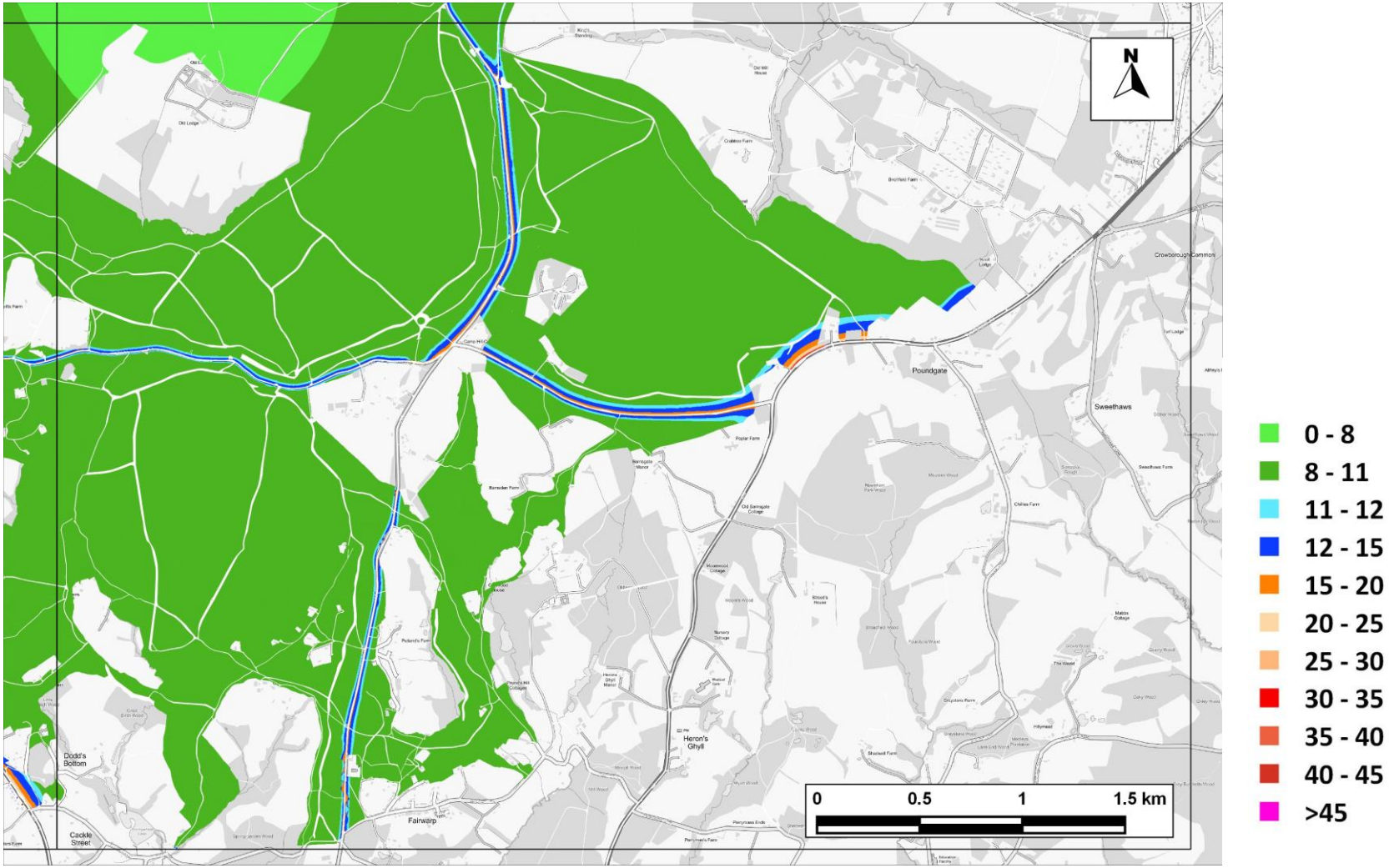


Figure A9.24: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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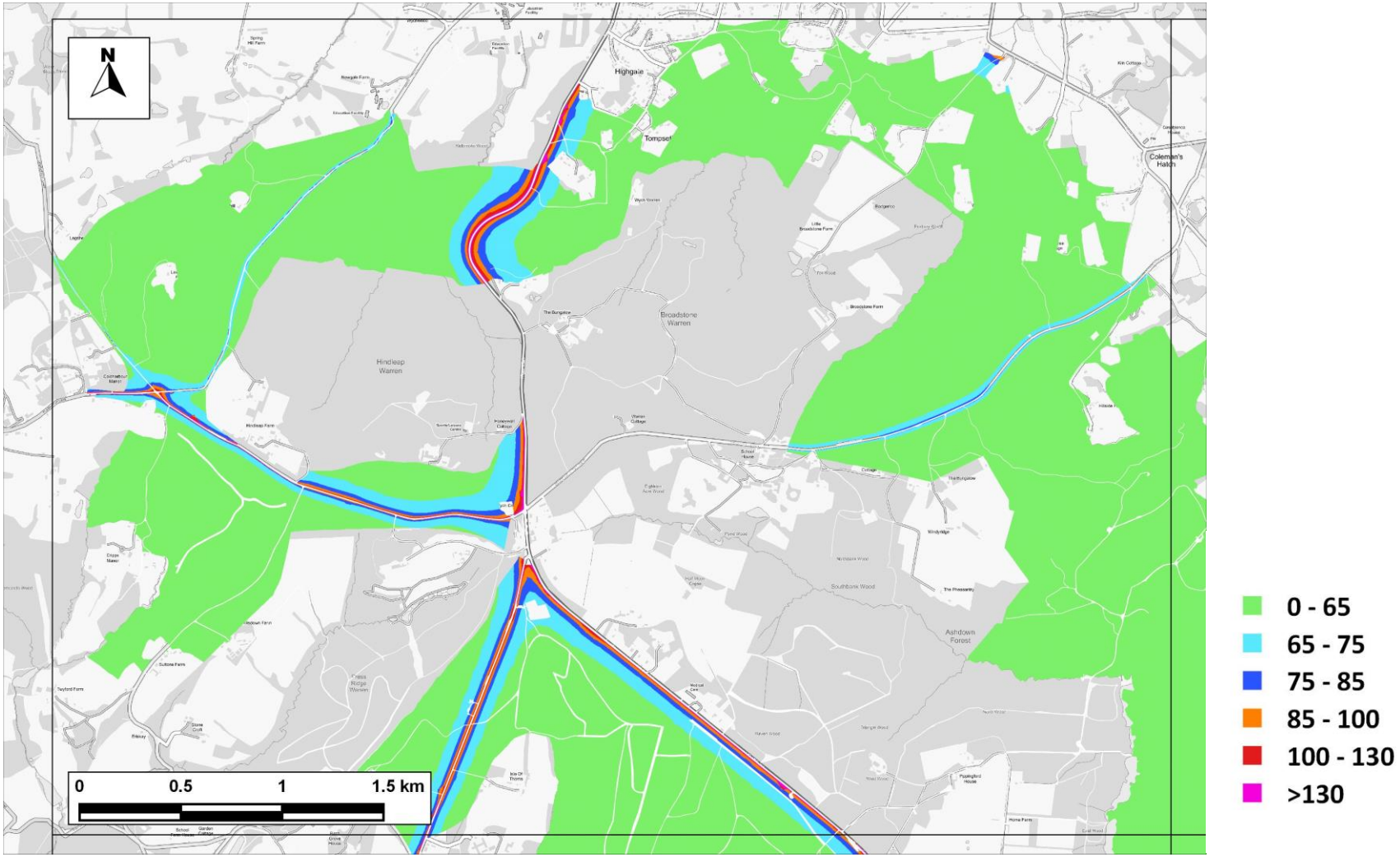


Figure A9.25: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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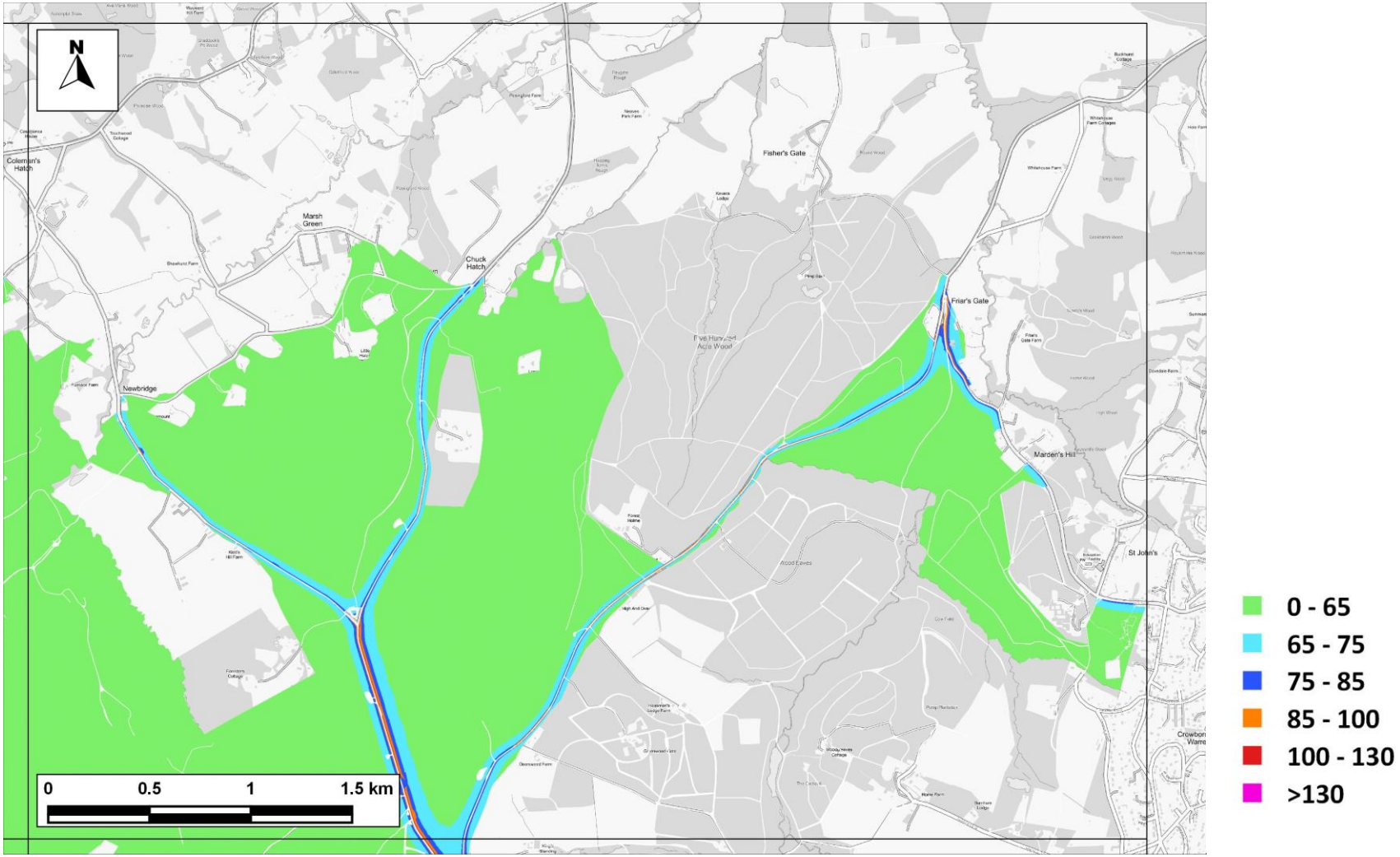


Figure A9.26: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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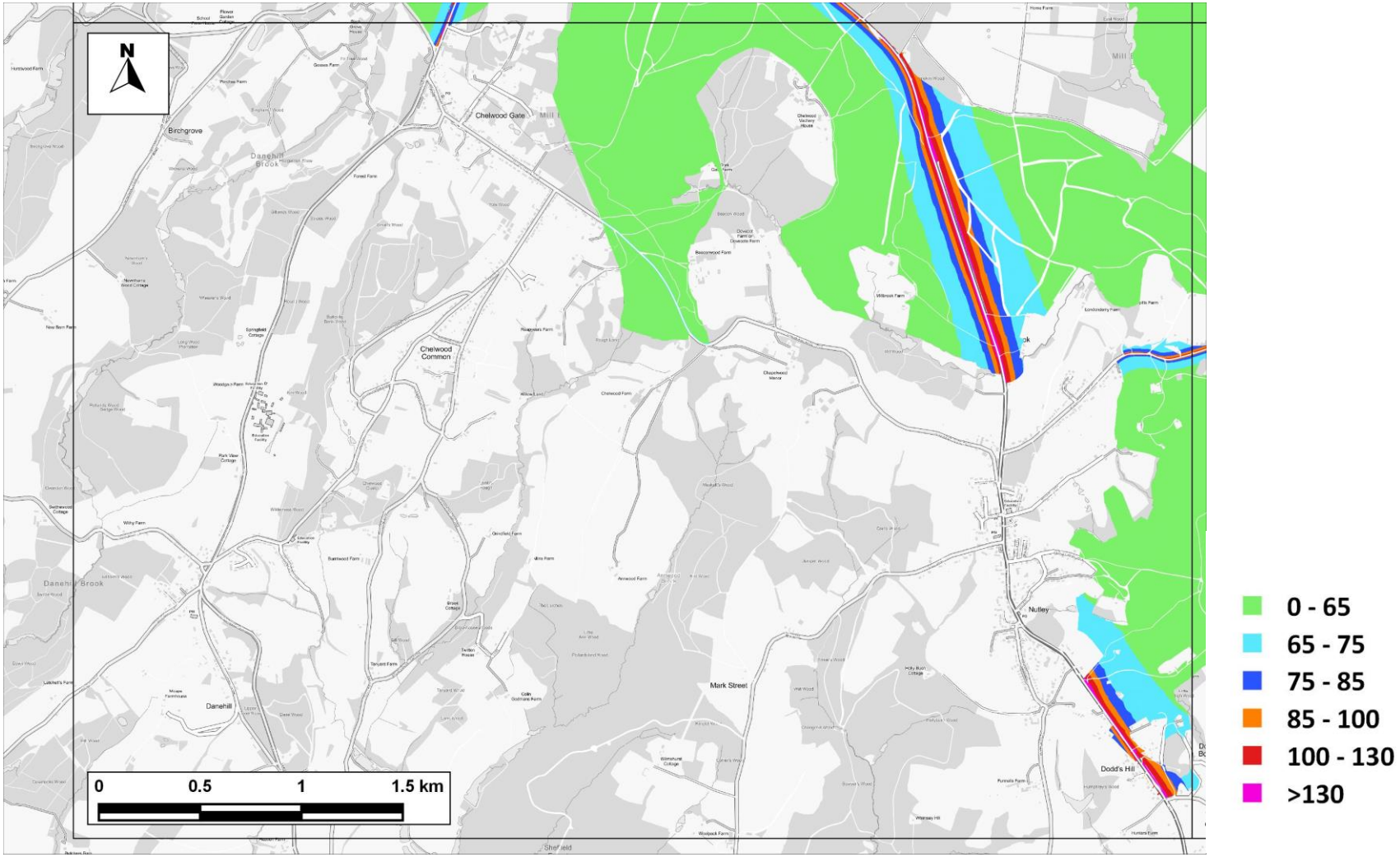


Figure A9.27: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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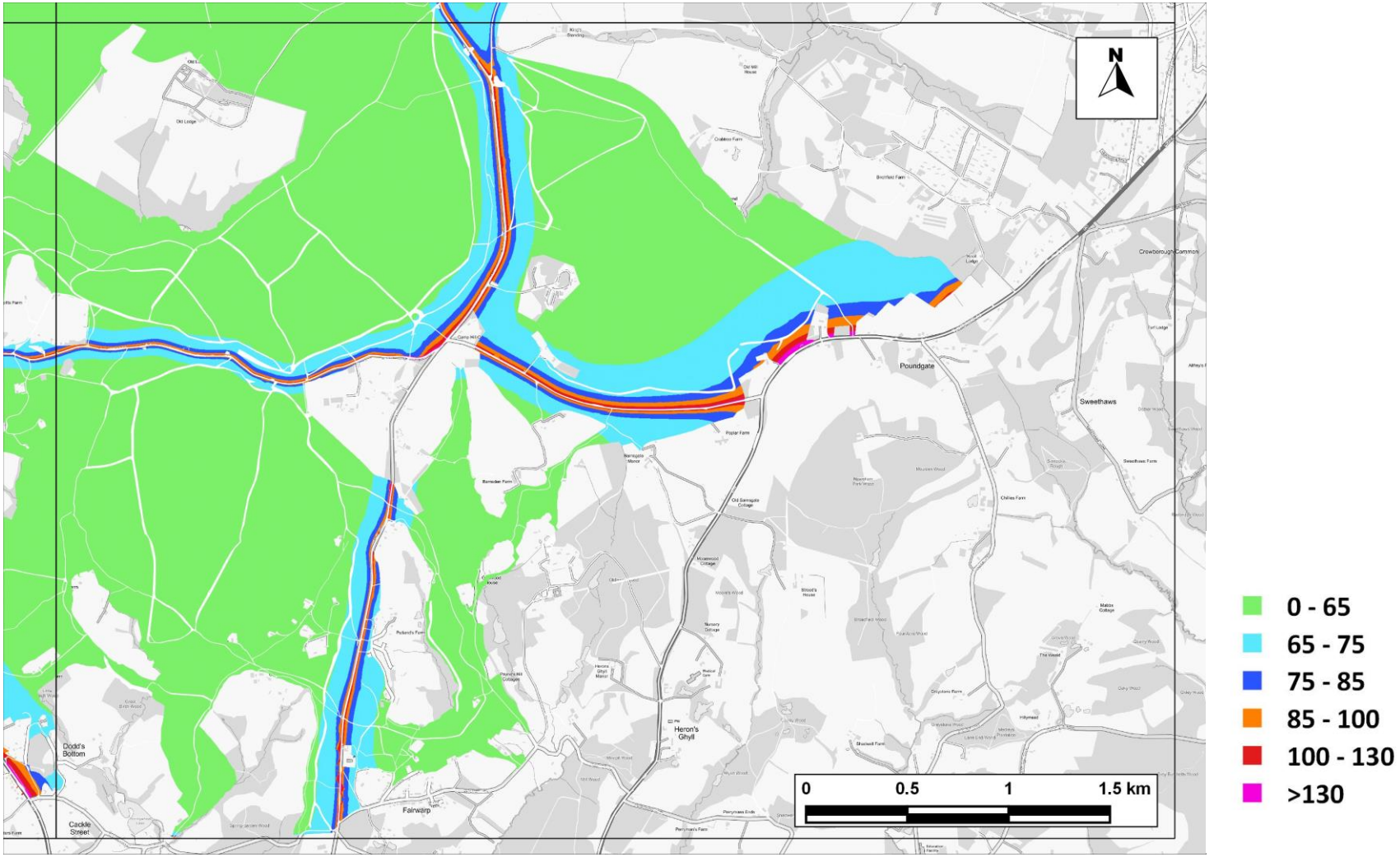


Figure A9.28: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - B)

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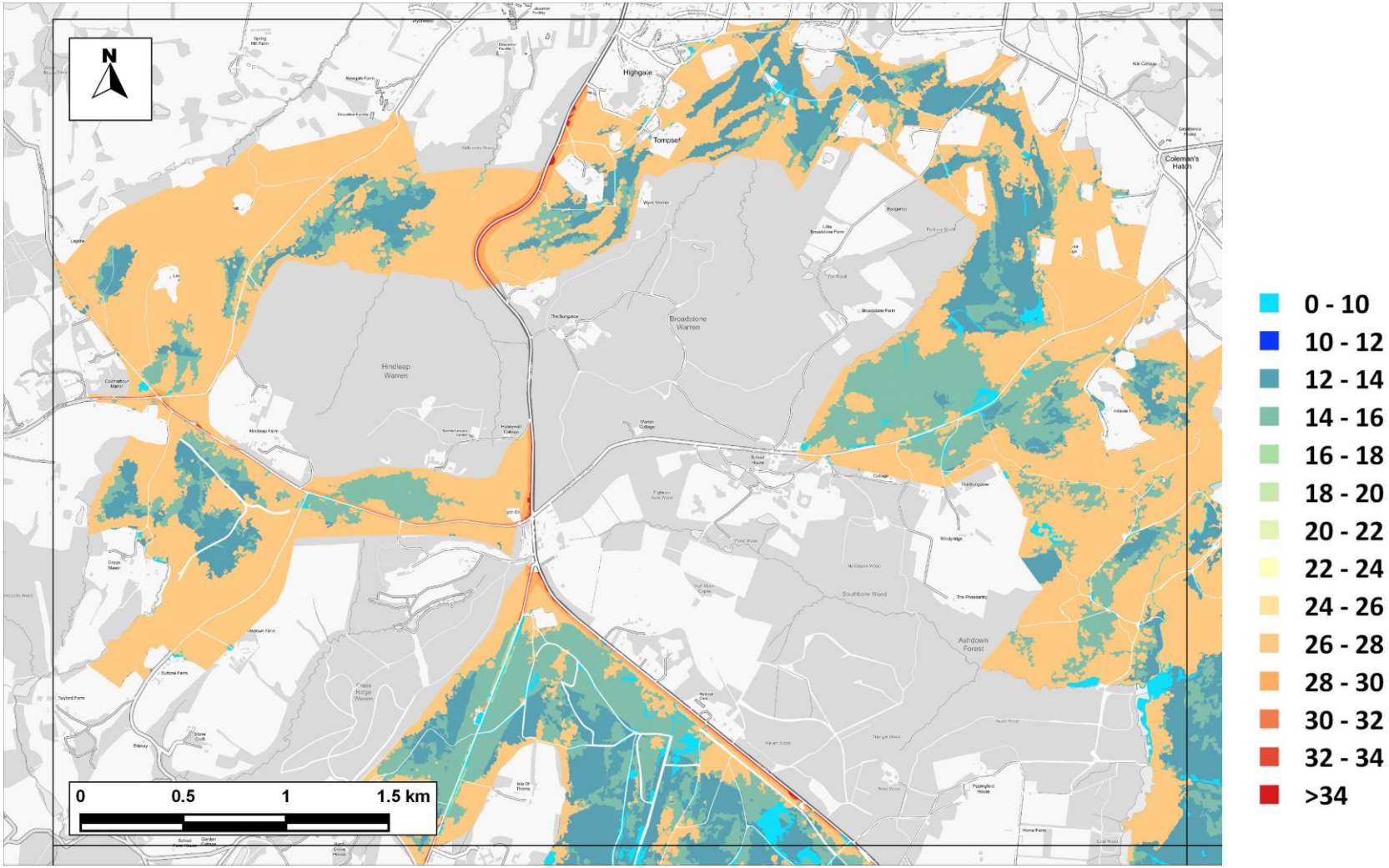


Figure A9.29: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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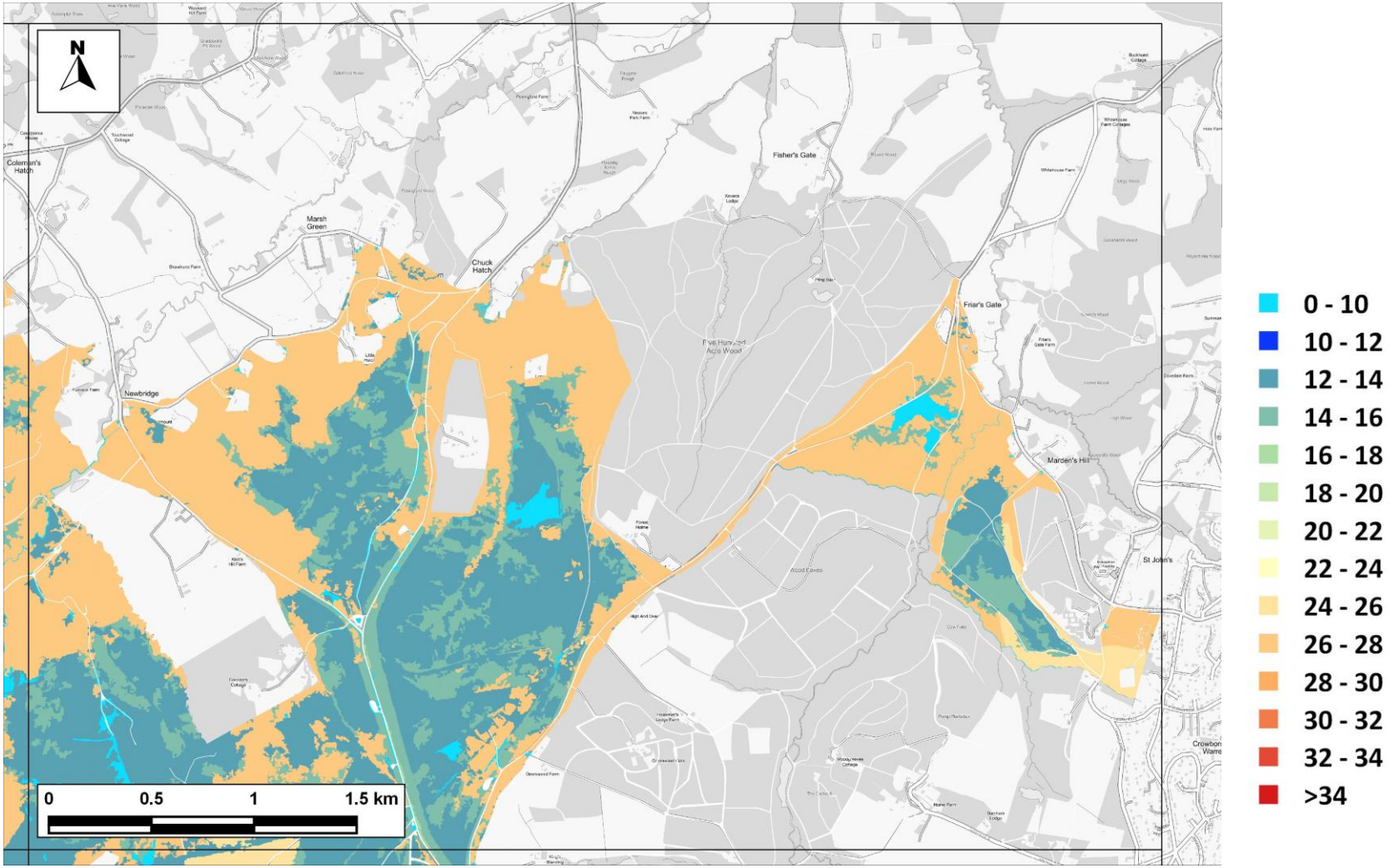


Figure A9.30: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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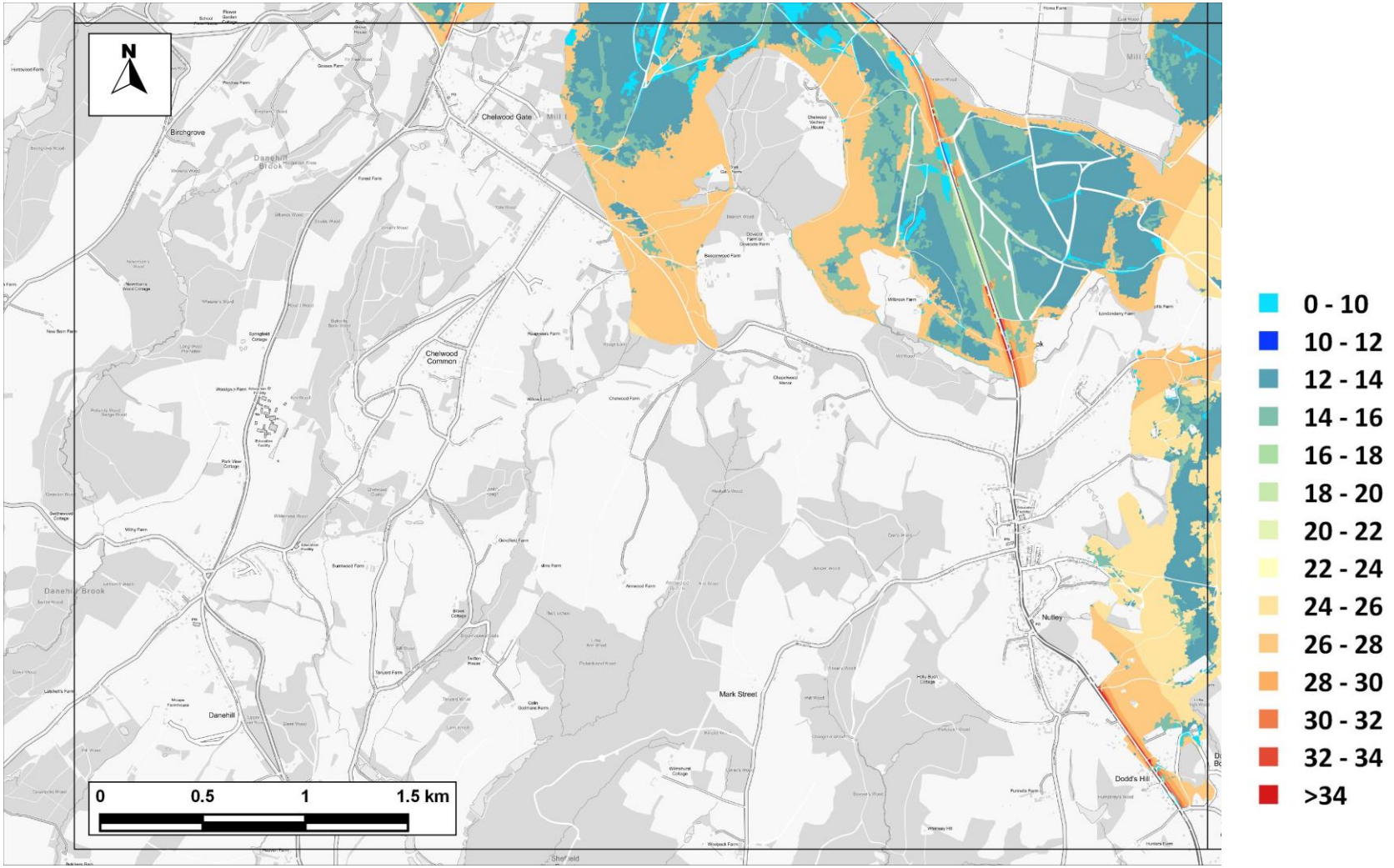


Figure A9.31: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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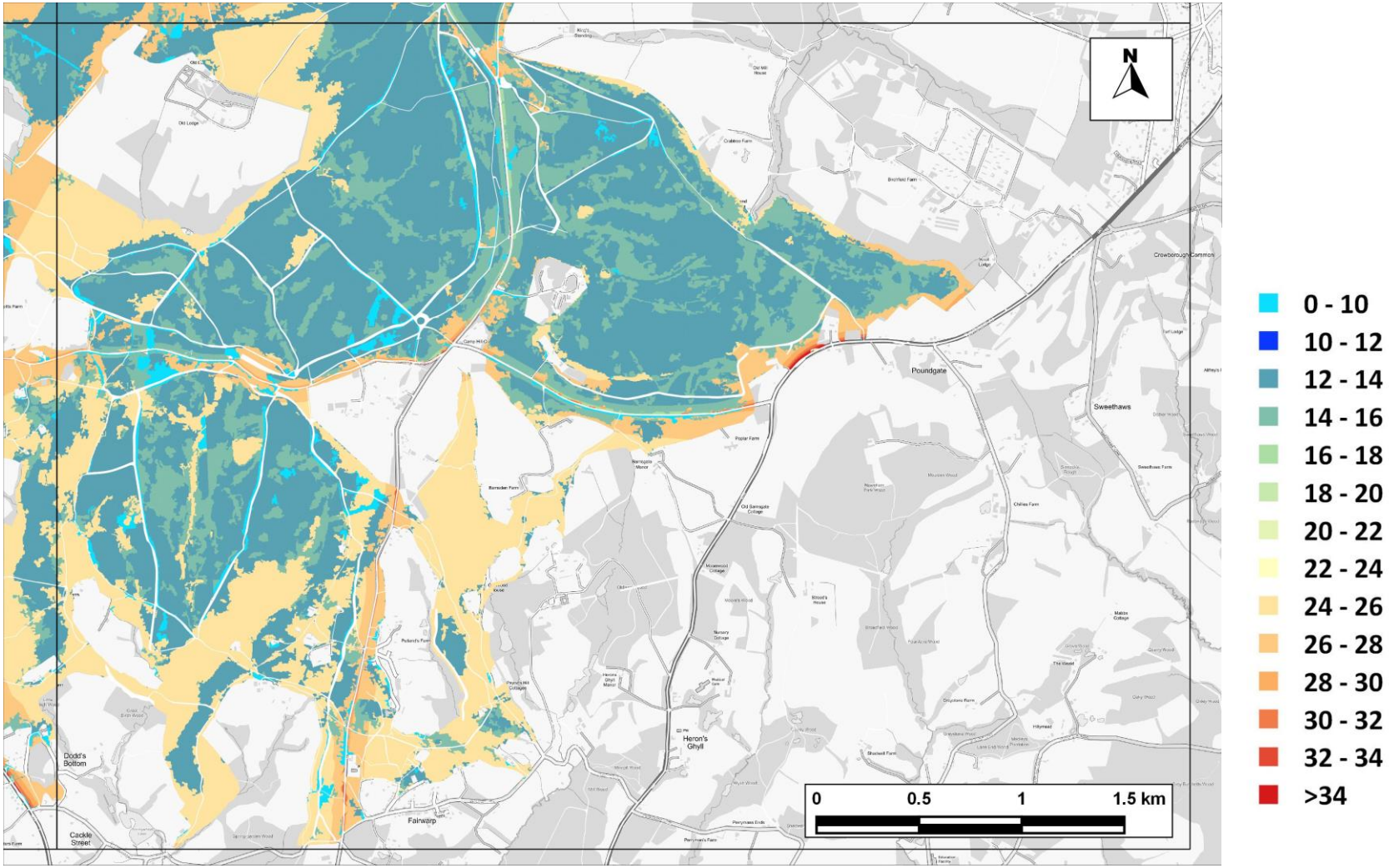


Figure A9.32: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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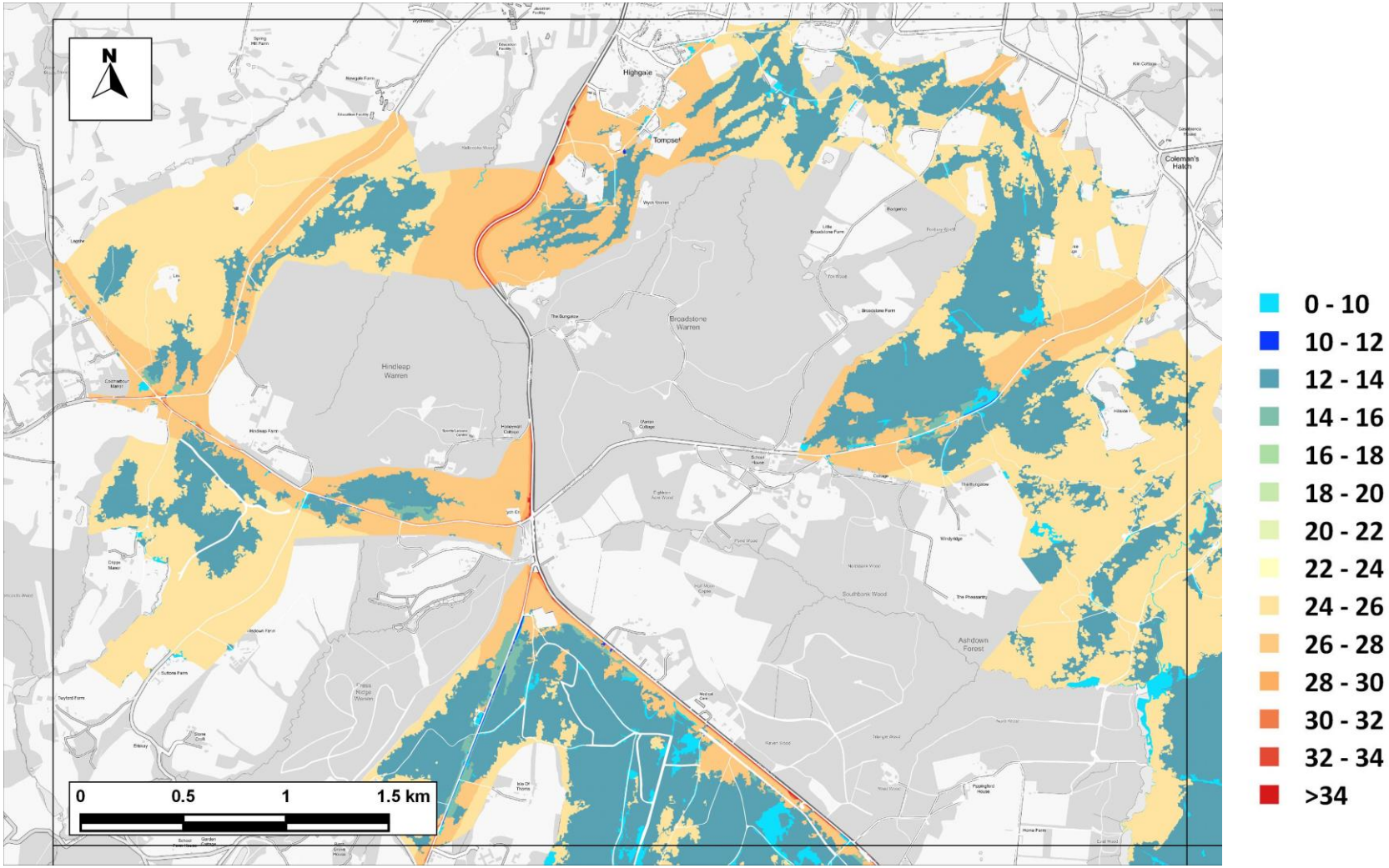


Figure A9.33: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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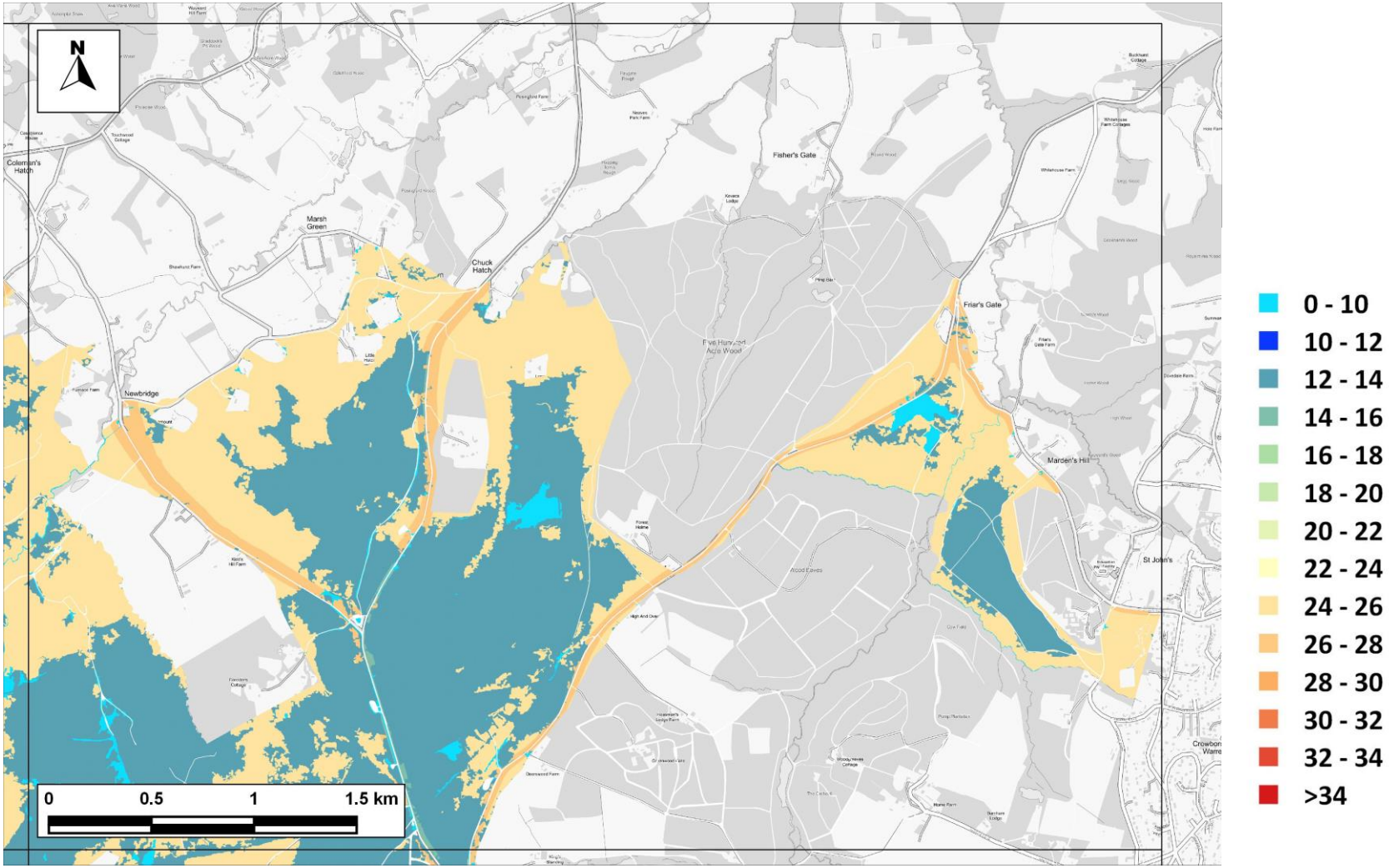


Figure A9.34: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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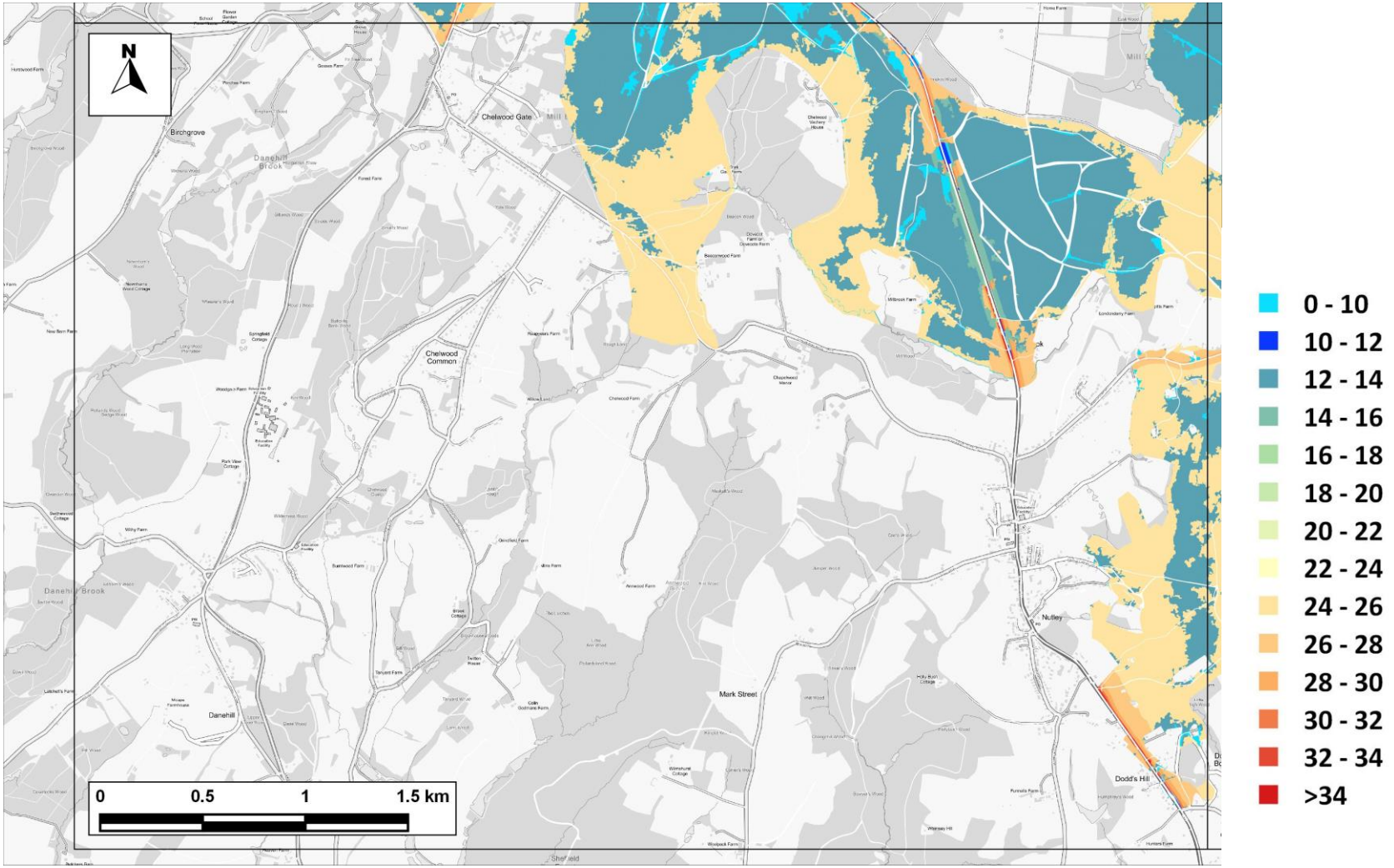


Figure A9.35: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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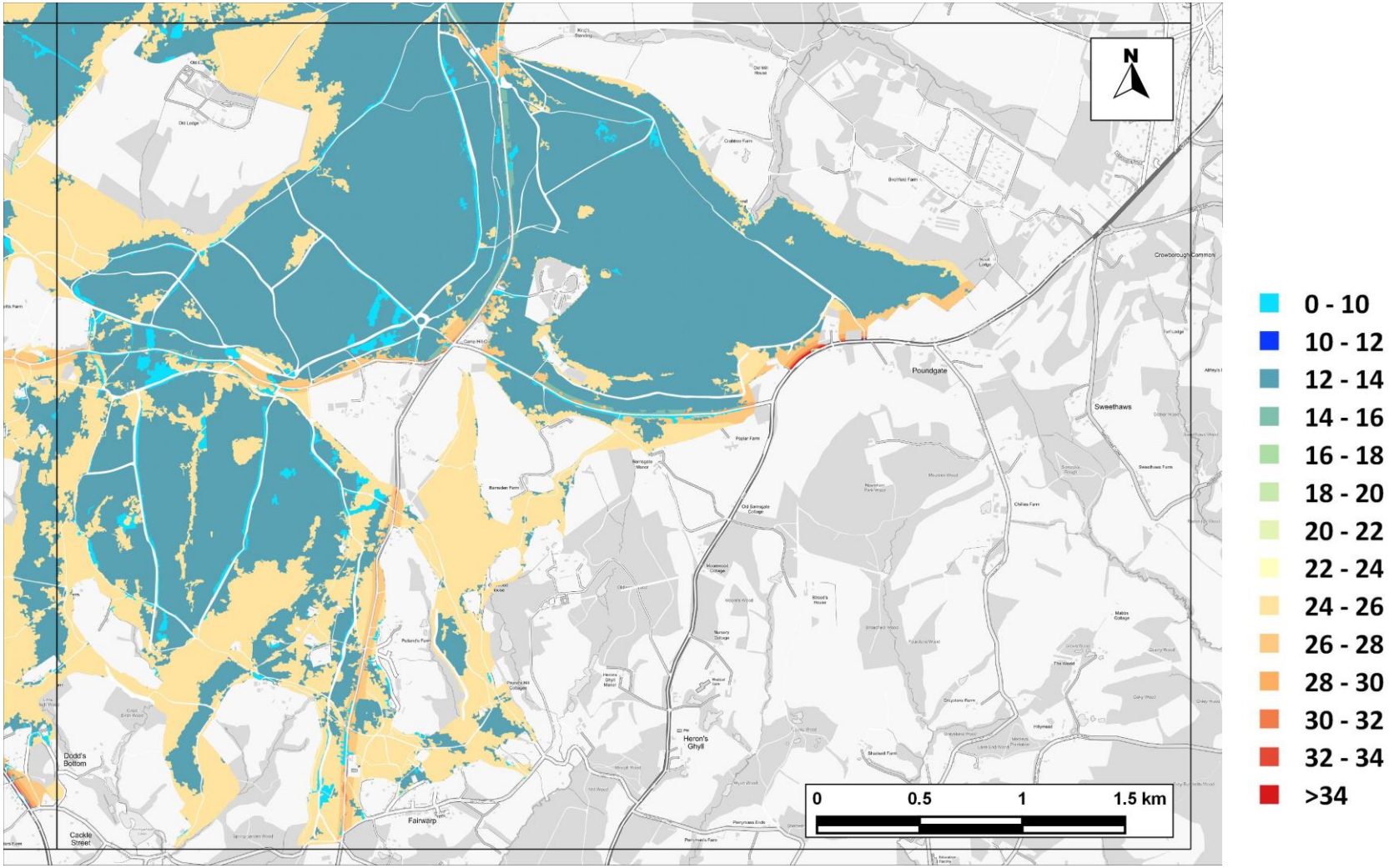


Figure A9.36: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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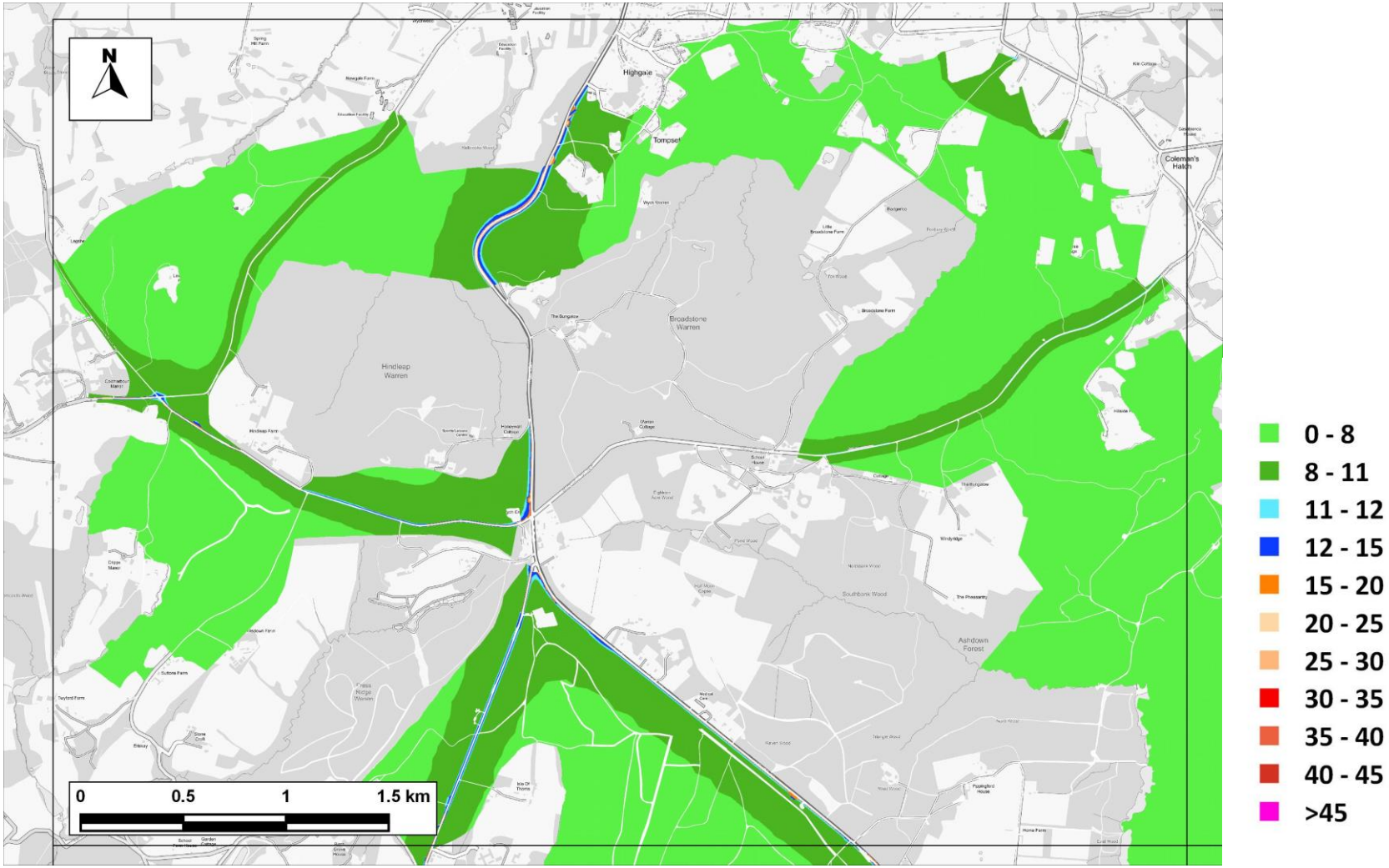


Figure A9.37: Annual Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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Figure A9.38: Annual Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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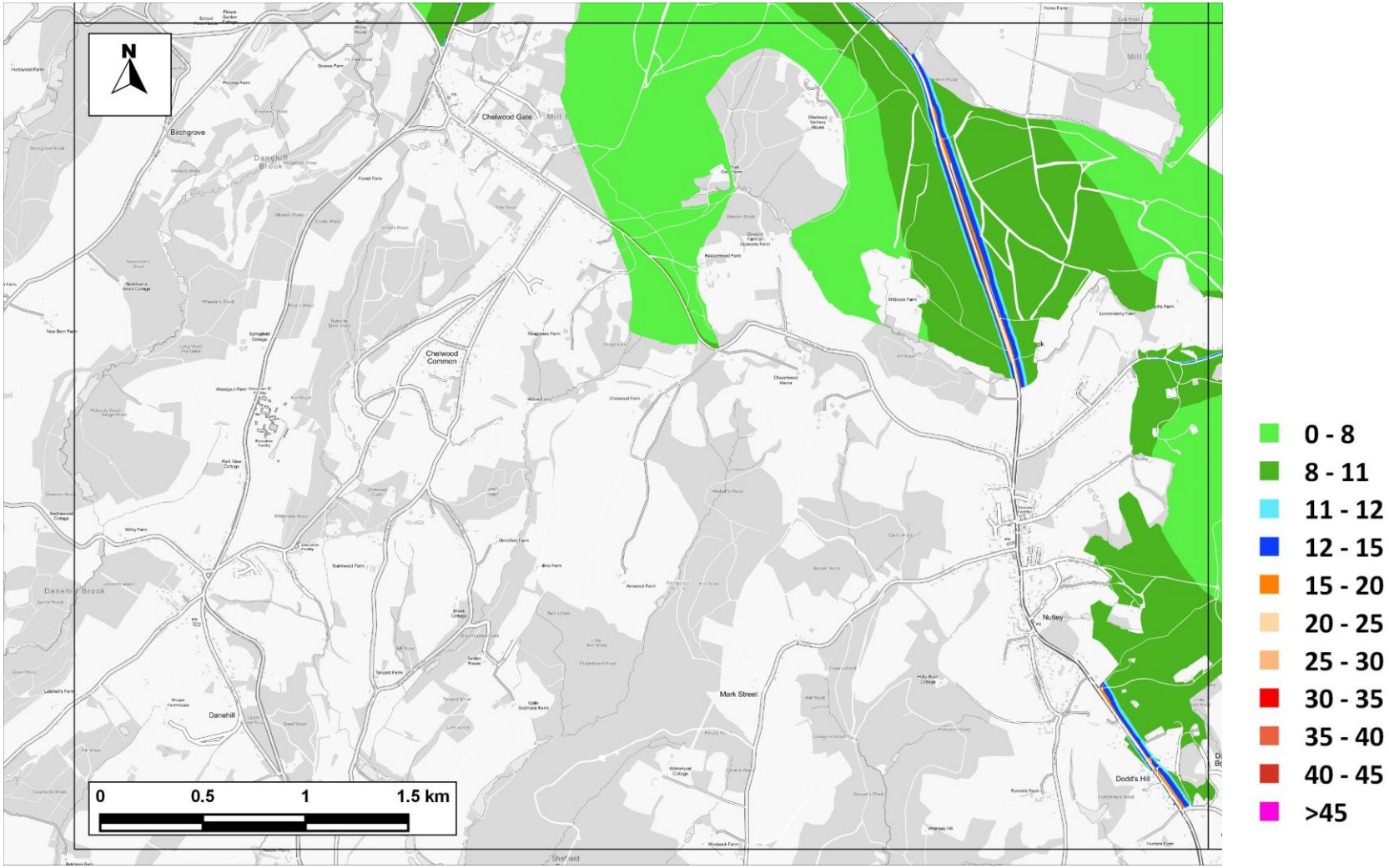


Figure A9.39: Annual Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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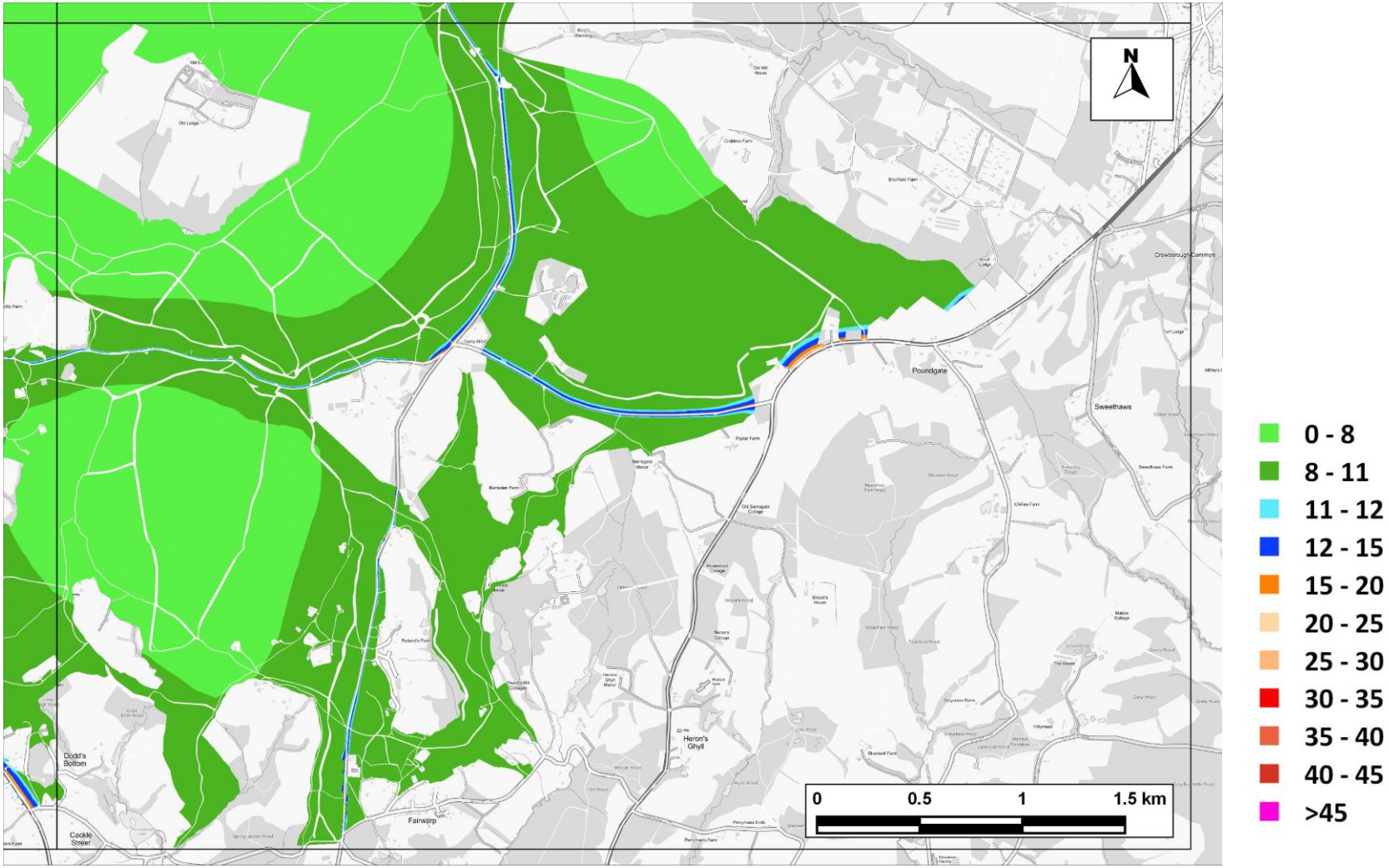


Figure A9.40: Annual Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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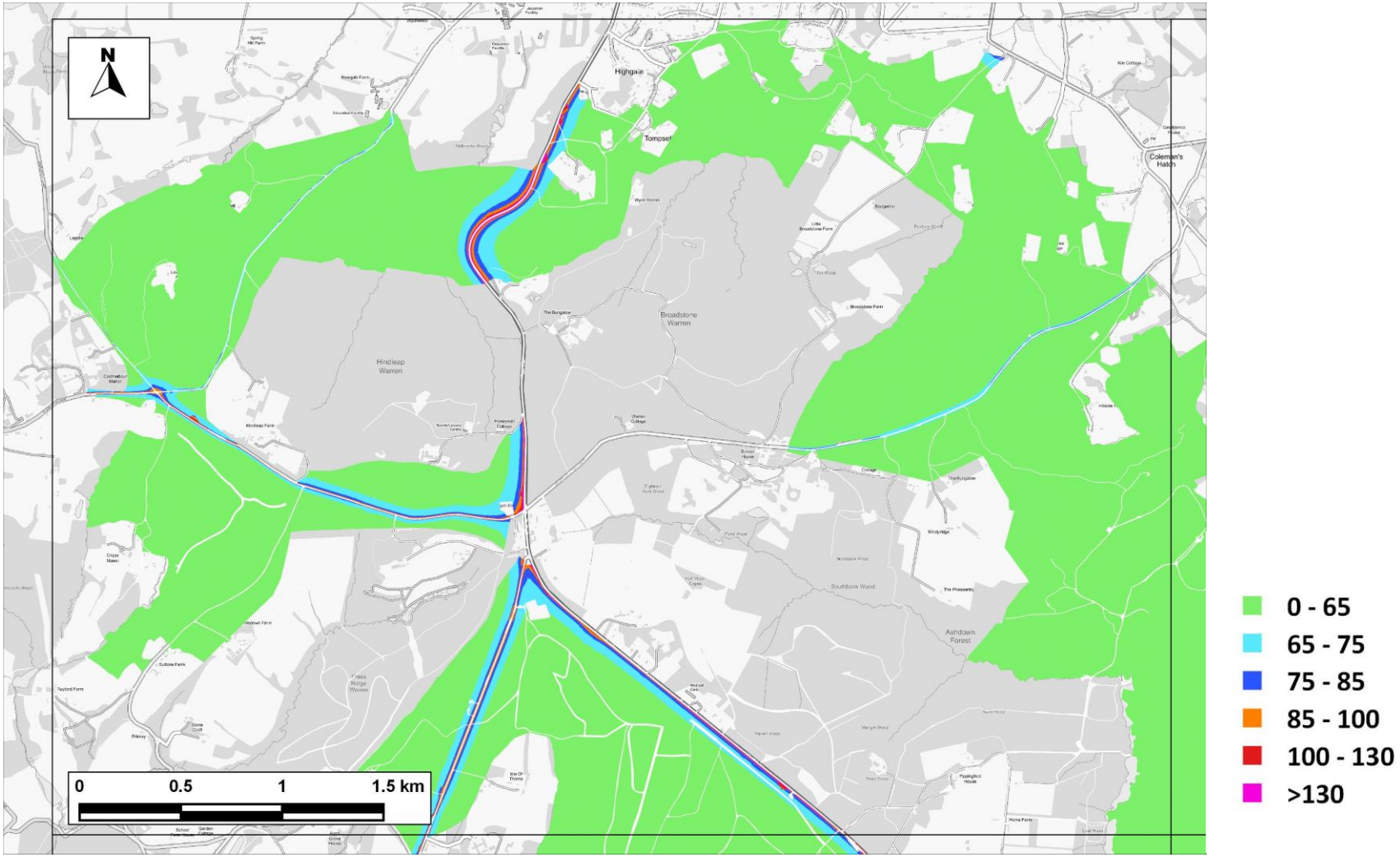


Figure A9.41: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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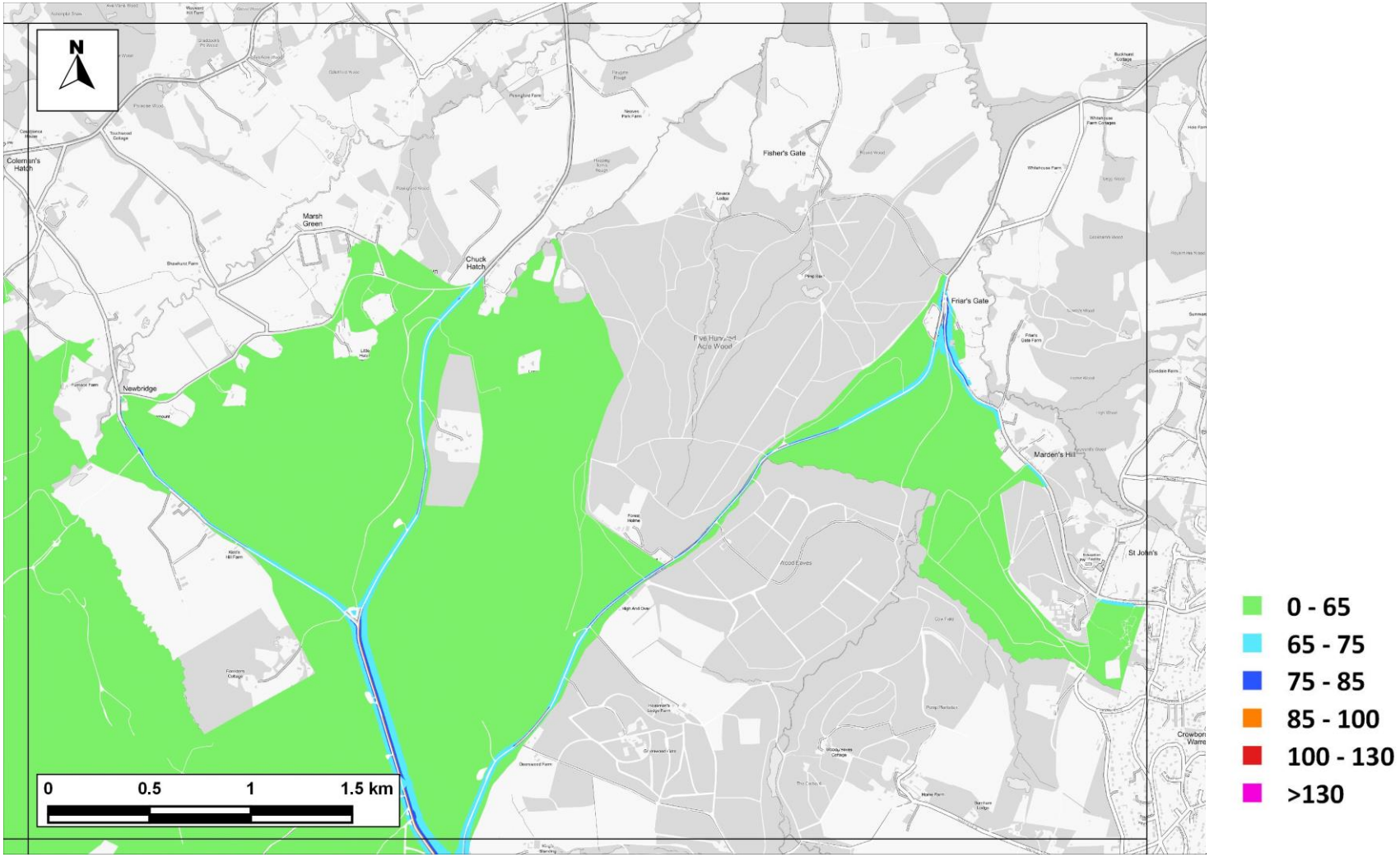


Figure A9.42: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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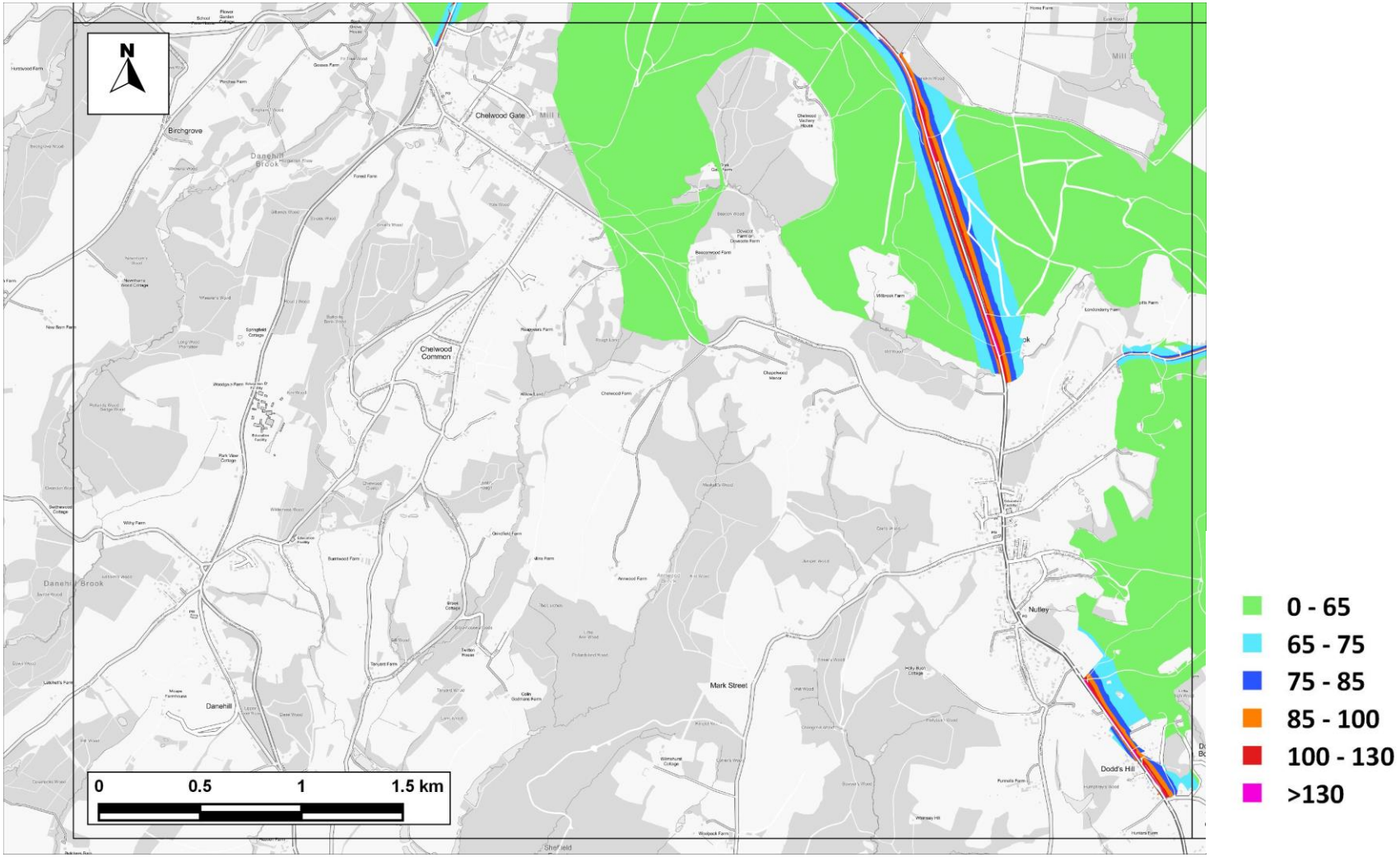


Figure A9.43: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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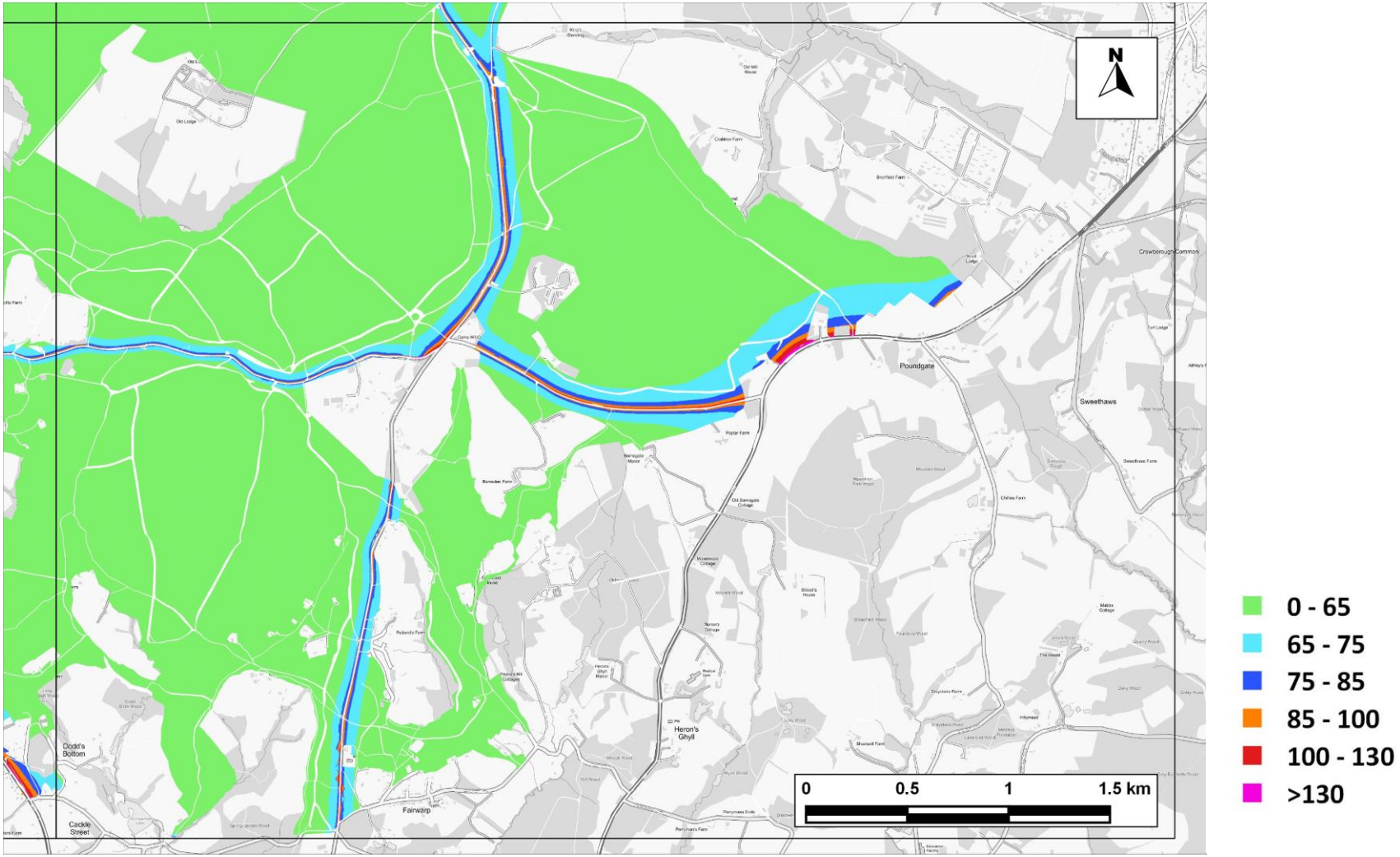


Figure A9.44: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m^3) 2028 With Plan (Emissions - C)

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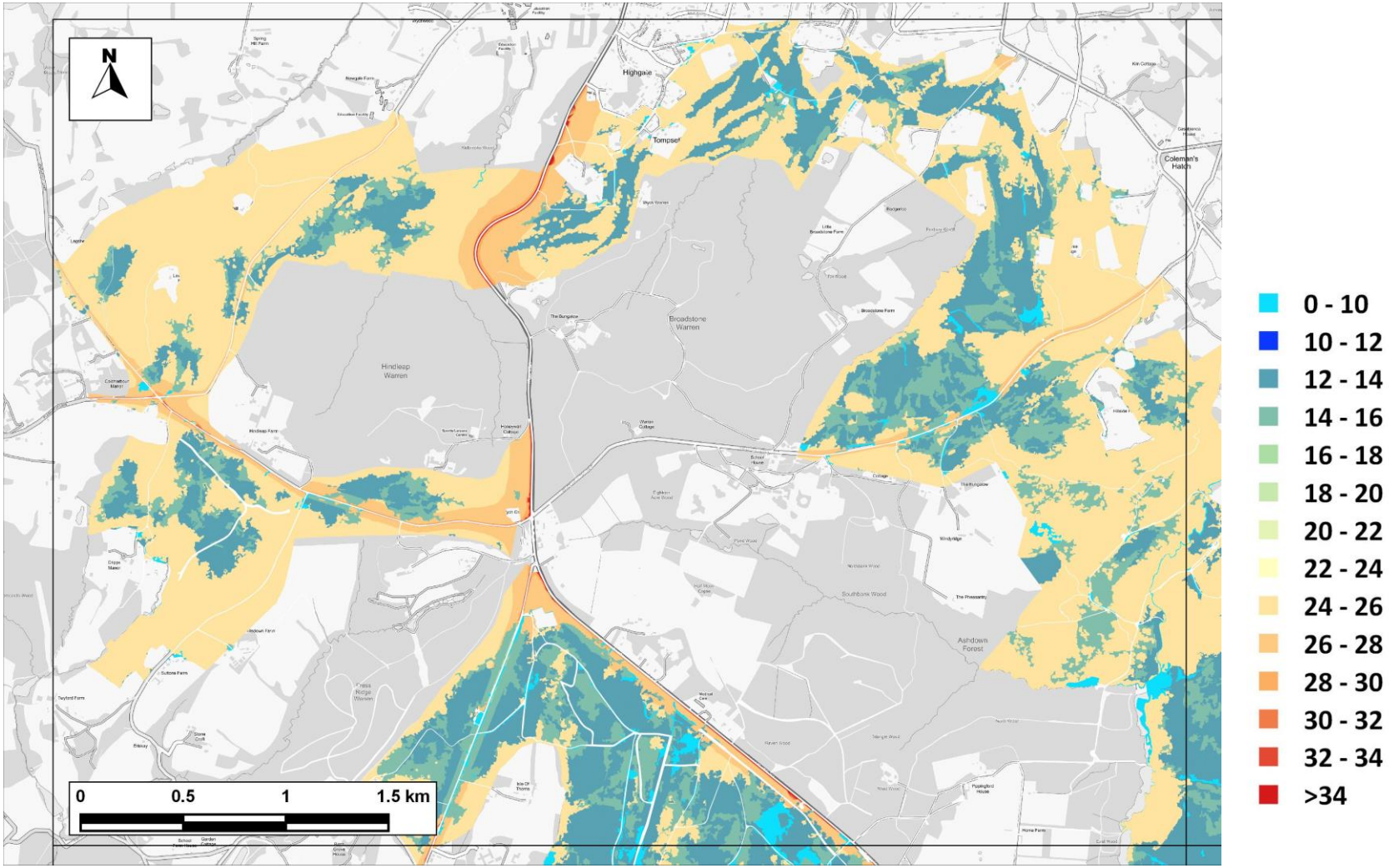


Figure A9.45: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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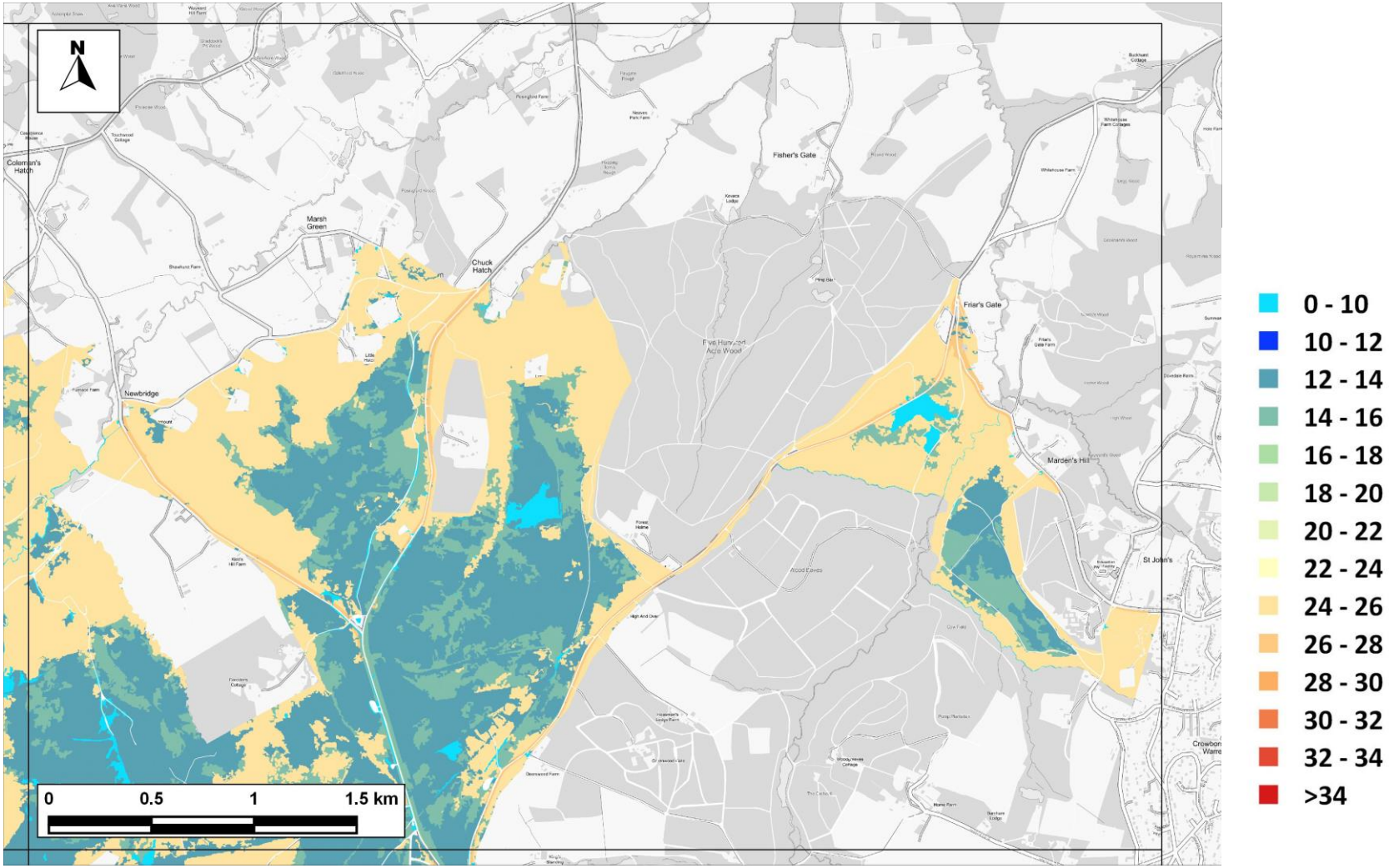


Figure A9.46: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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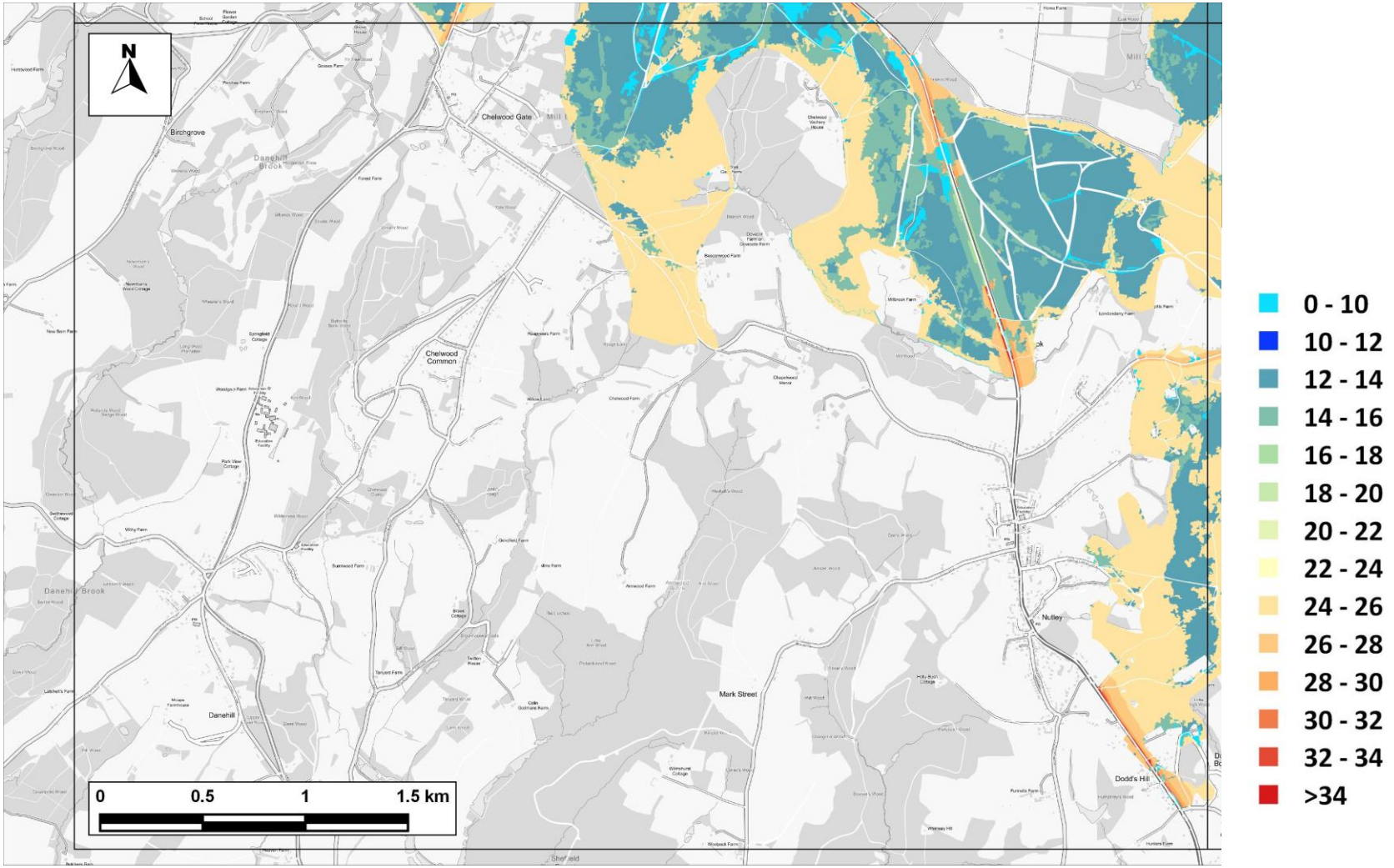


Figure A9.47: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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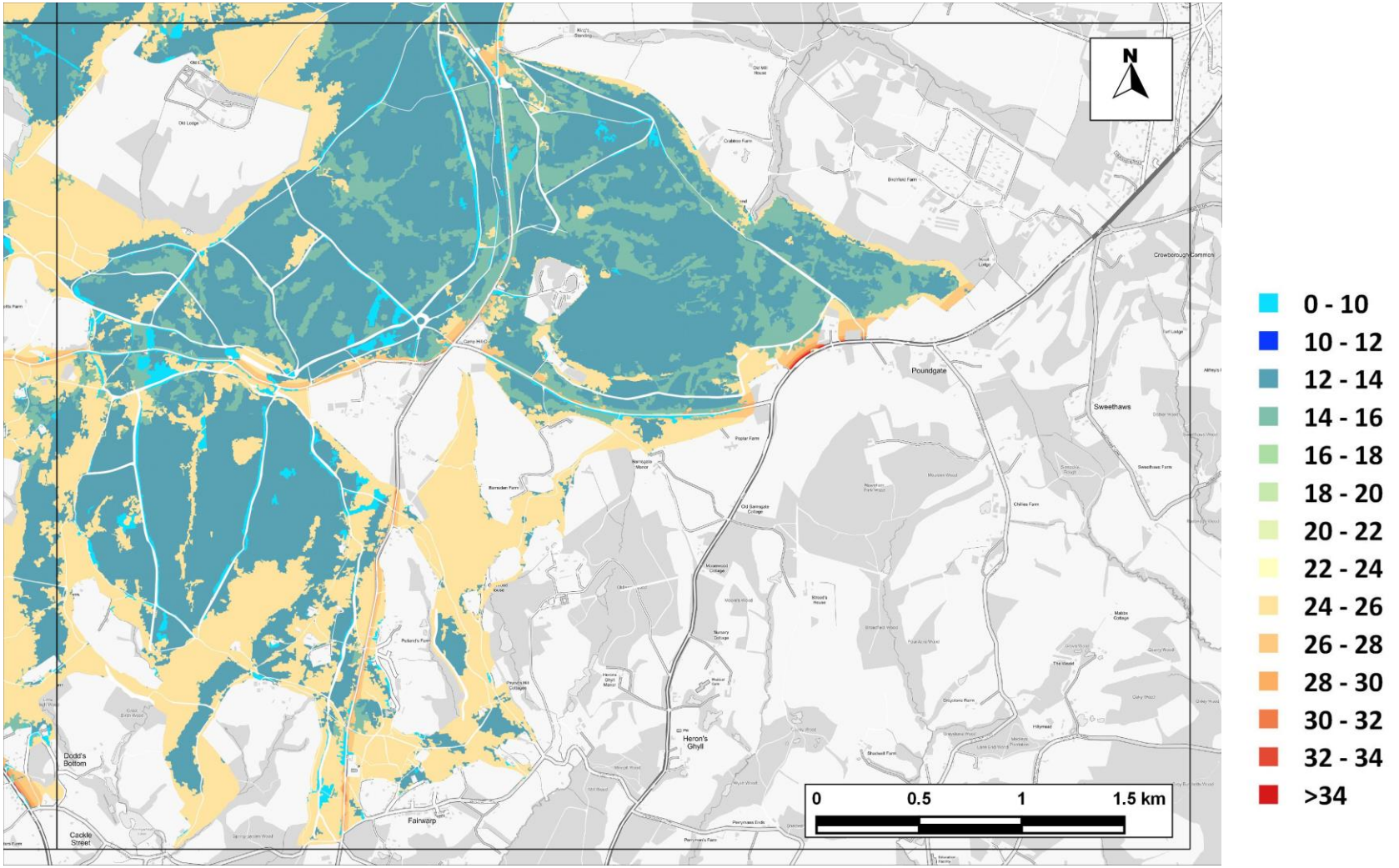


Figure A9.48: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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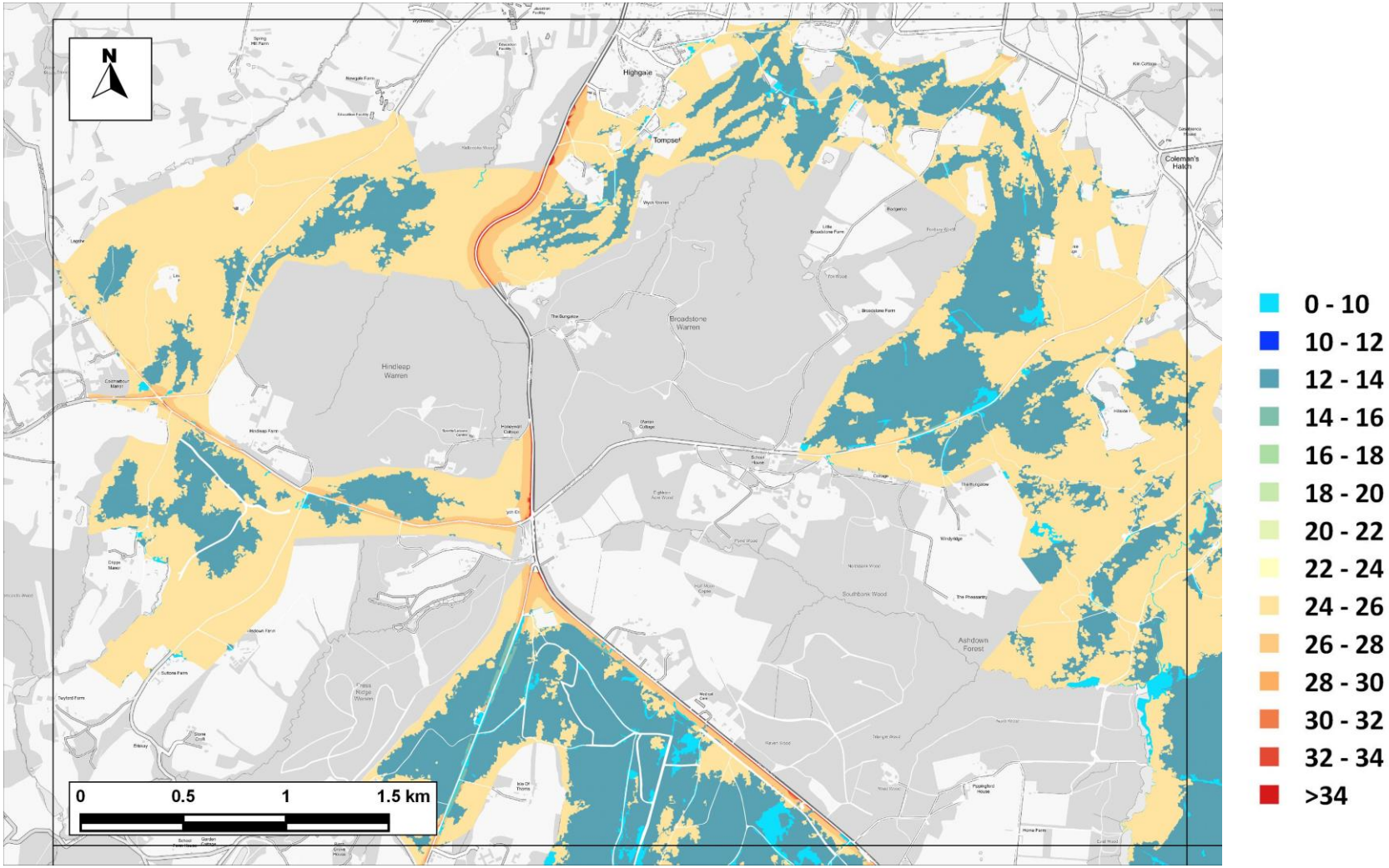


Figure A9.49: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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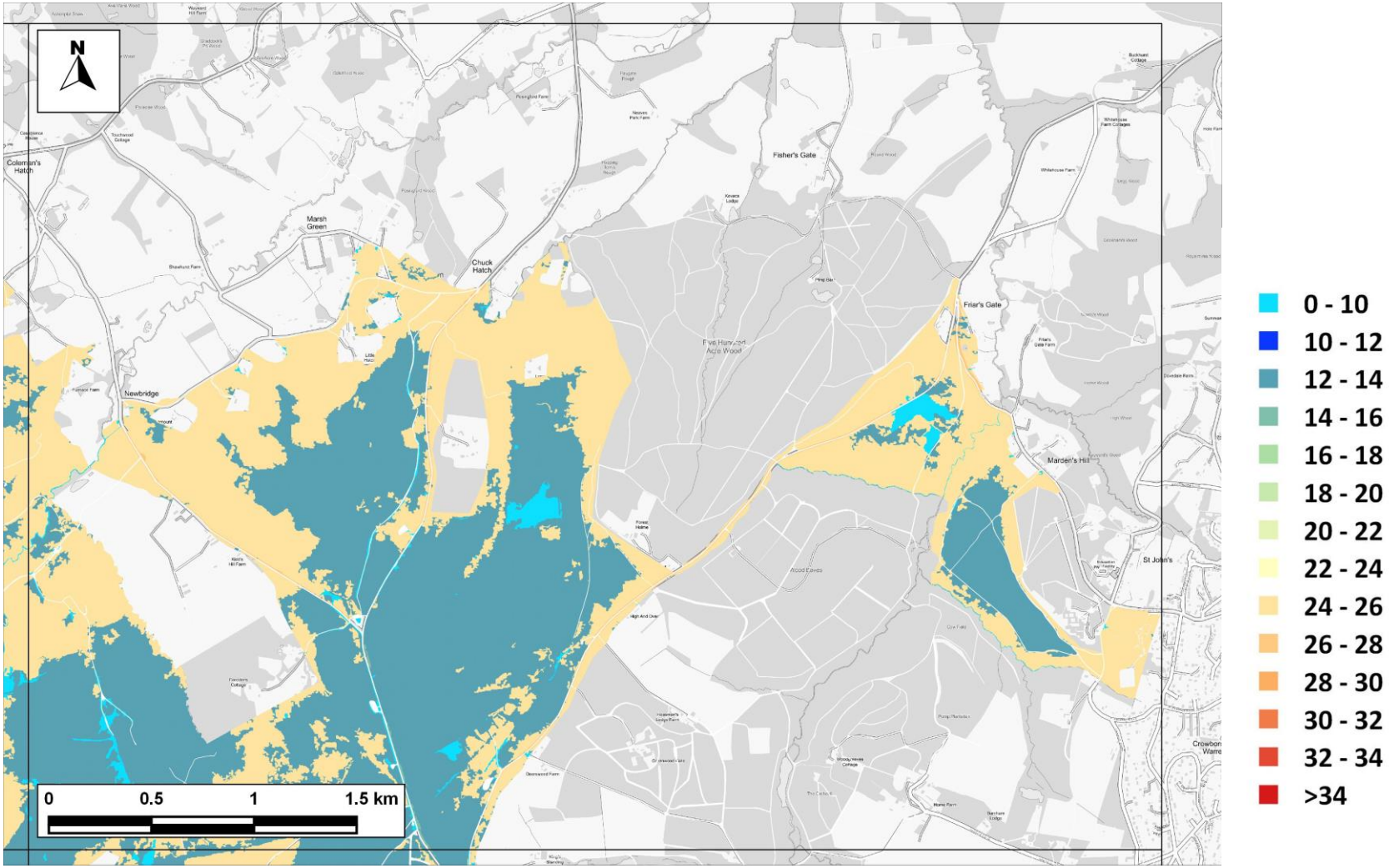


Figure A9.50: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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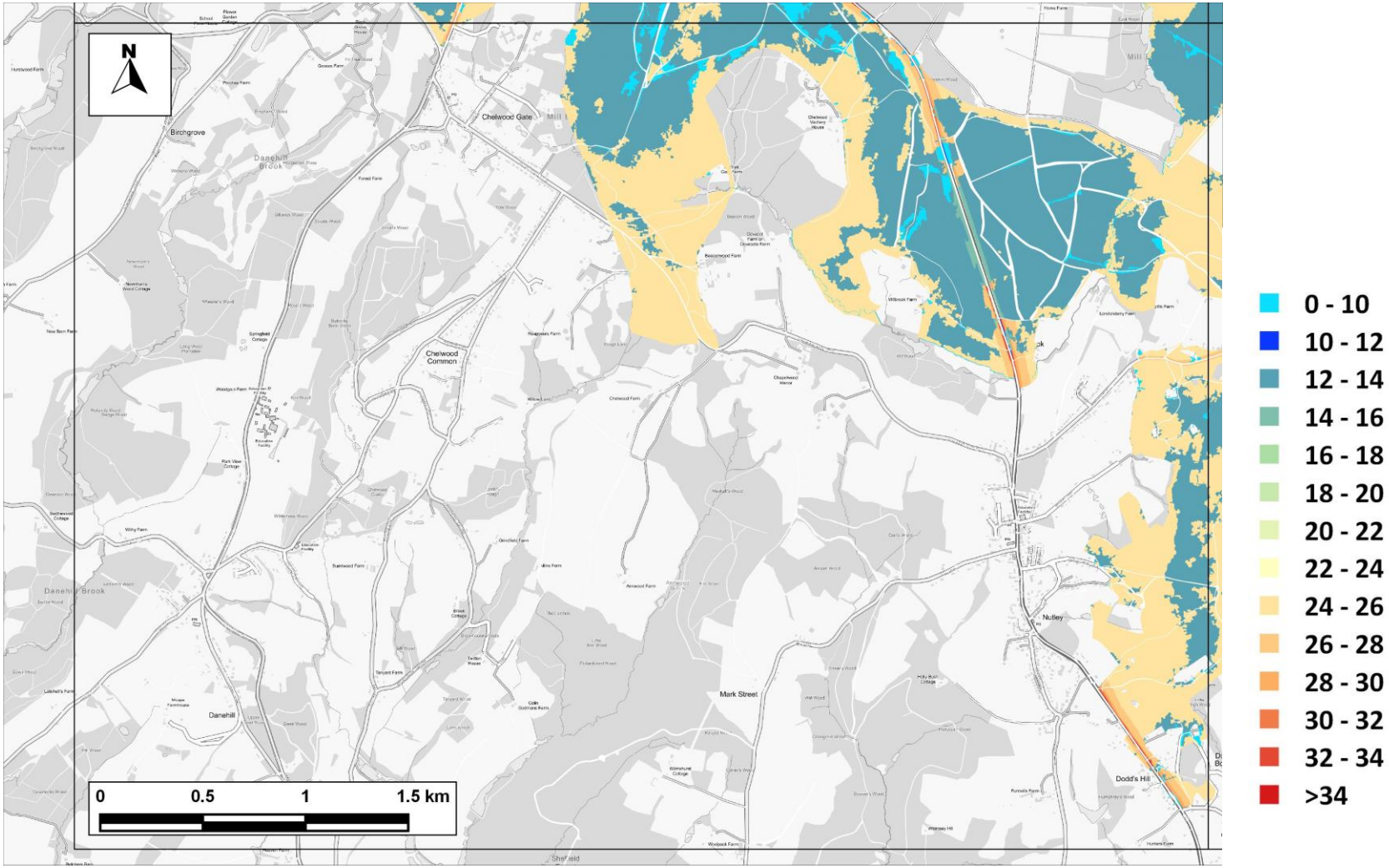


Figure A9.51: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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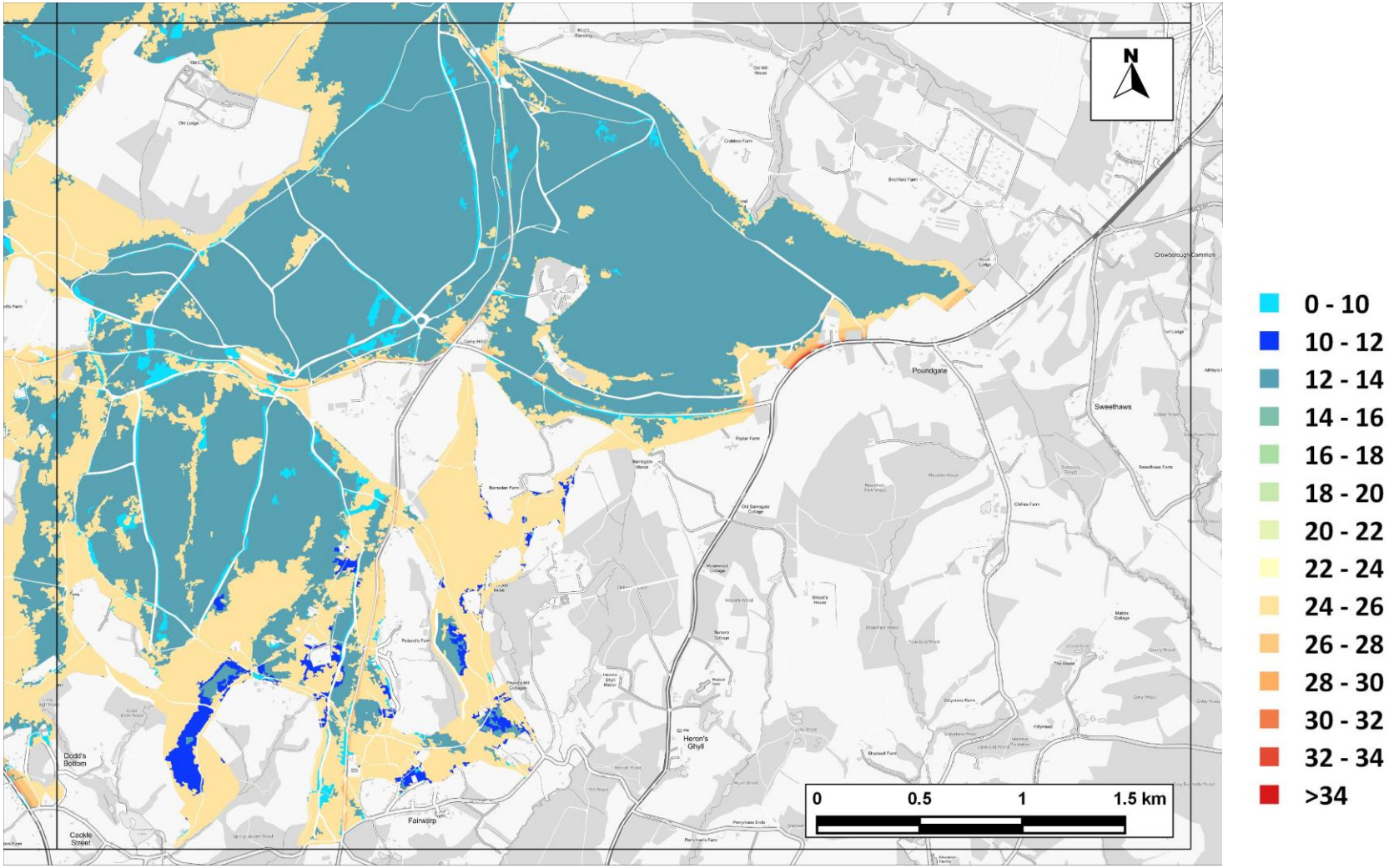


Figure A9.52: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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Appendix 10. Maps of Changes Caused by Local Plan Alone

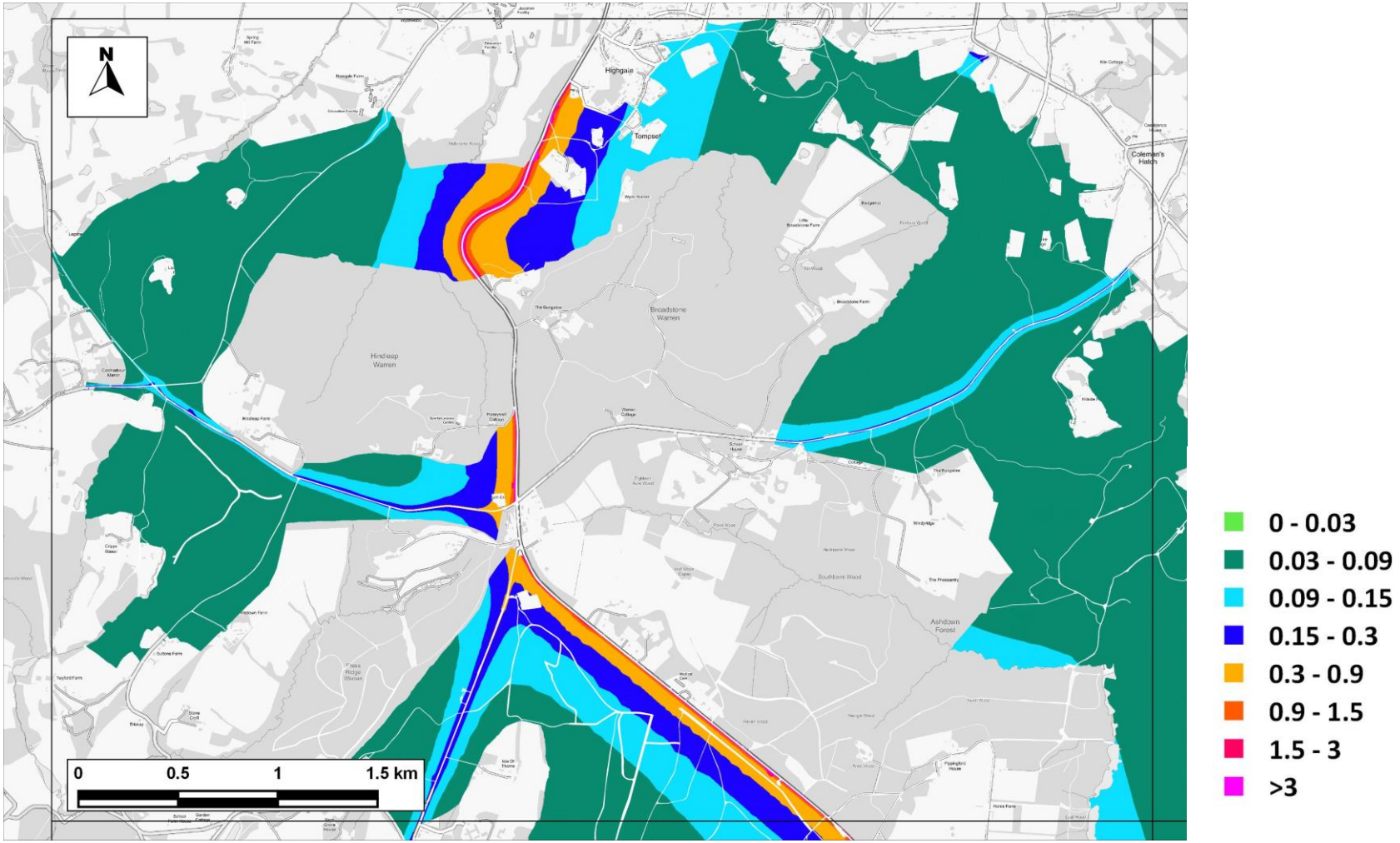


Figure A10.1: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario A (µg/m^3) – Northwest Section

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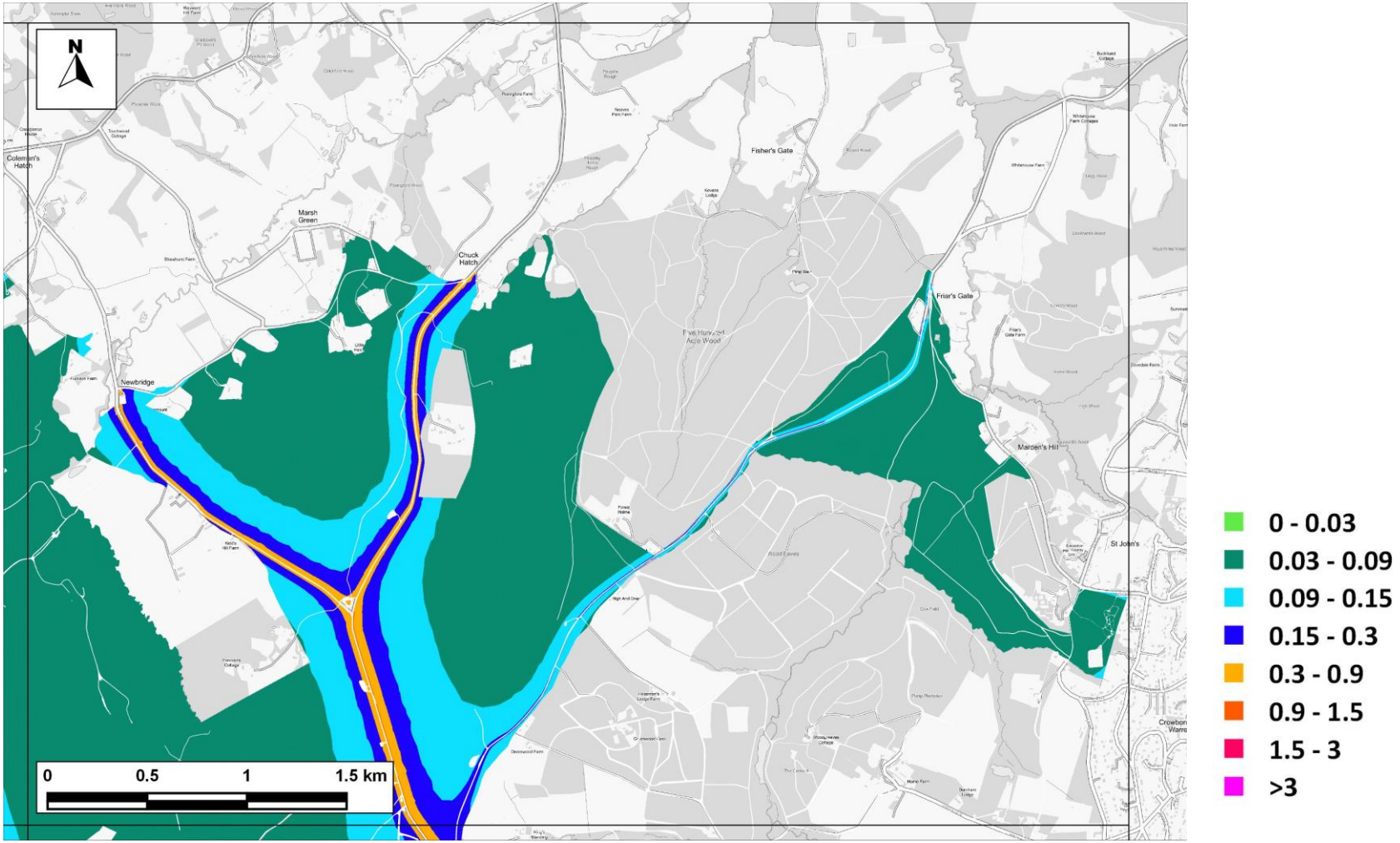


Figure A10.2: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario A (µg/m^3) – Northeast Section

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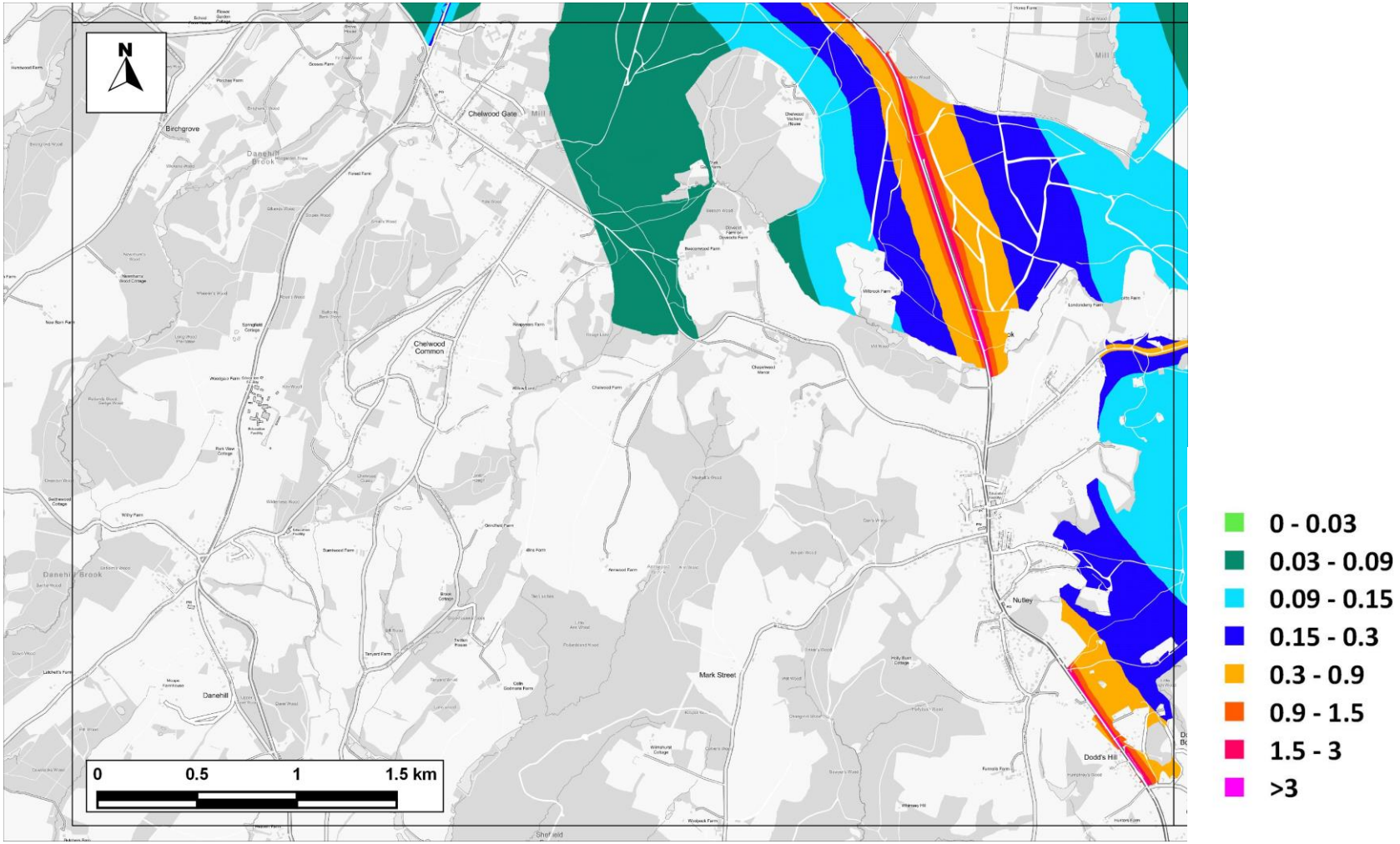


Figure A10.3: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario A (µg/m^3)– Southwest Section

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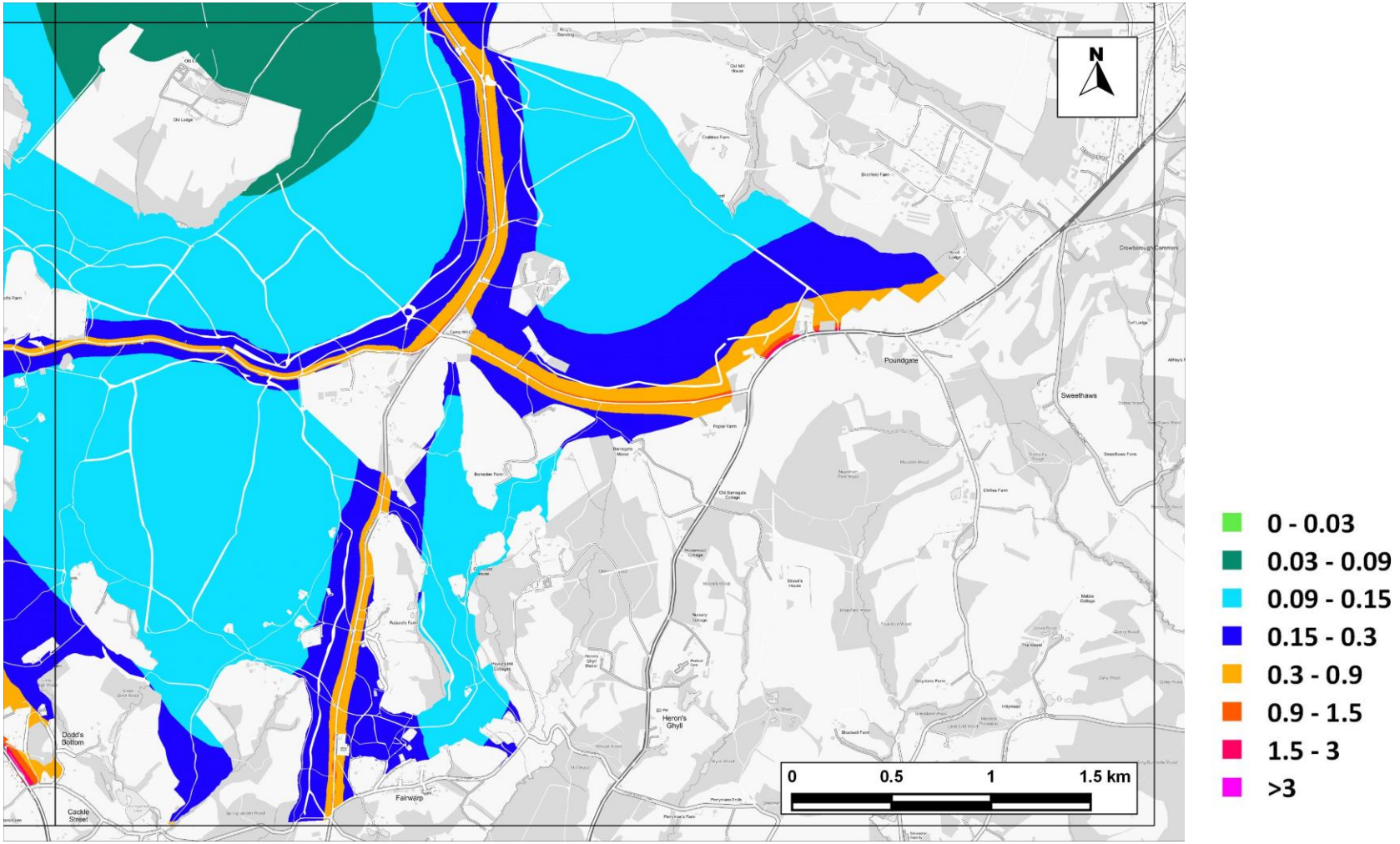


Figure A10.4: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario A (µg/m^3) – Southeast Section

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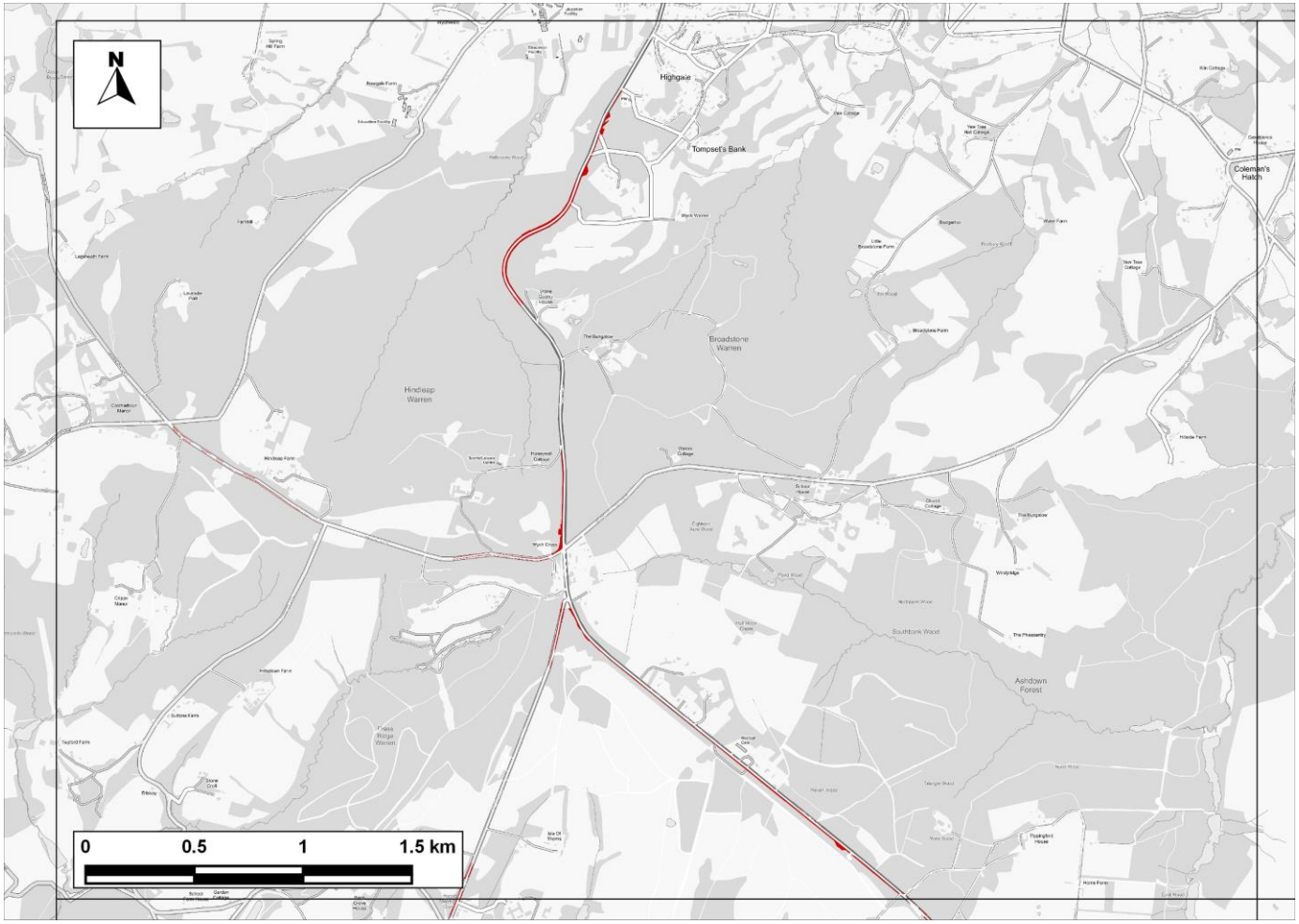


Figure A10.5: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A10.6: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northeast Section

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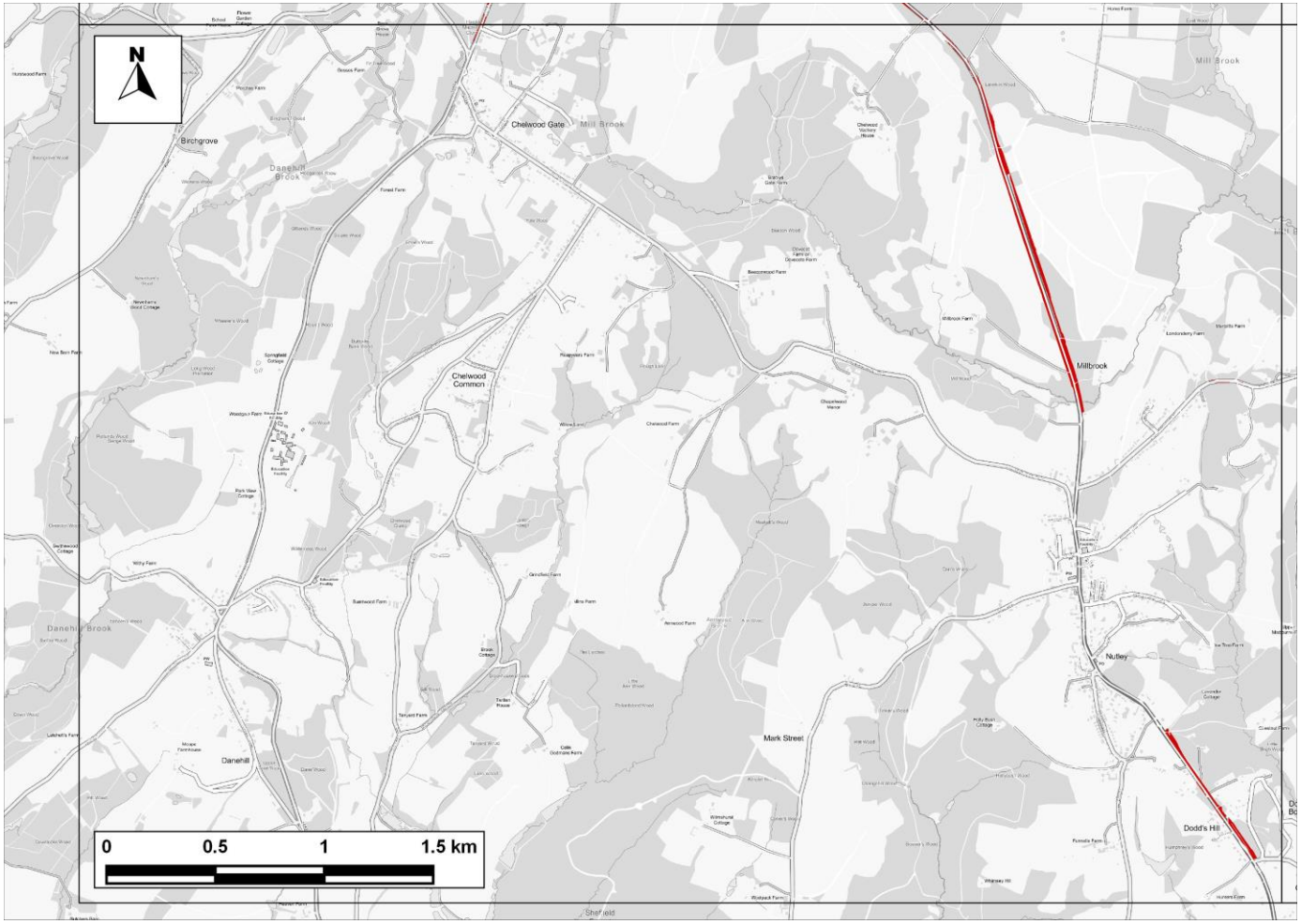


Figure A10.7: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A10.8: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southeast Section

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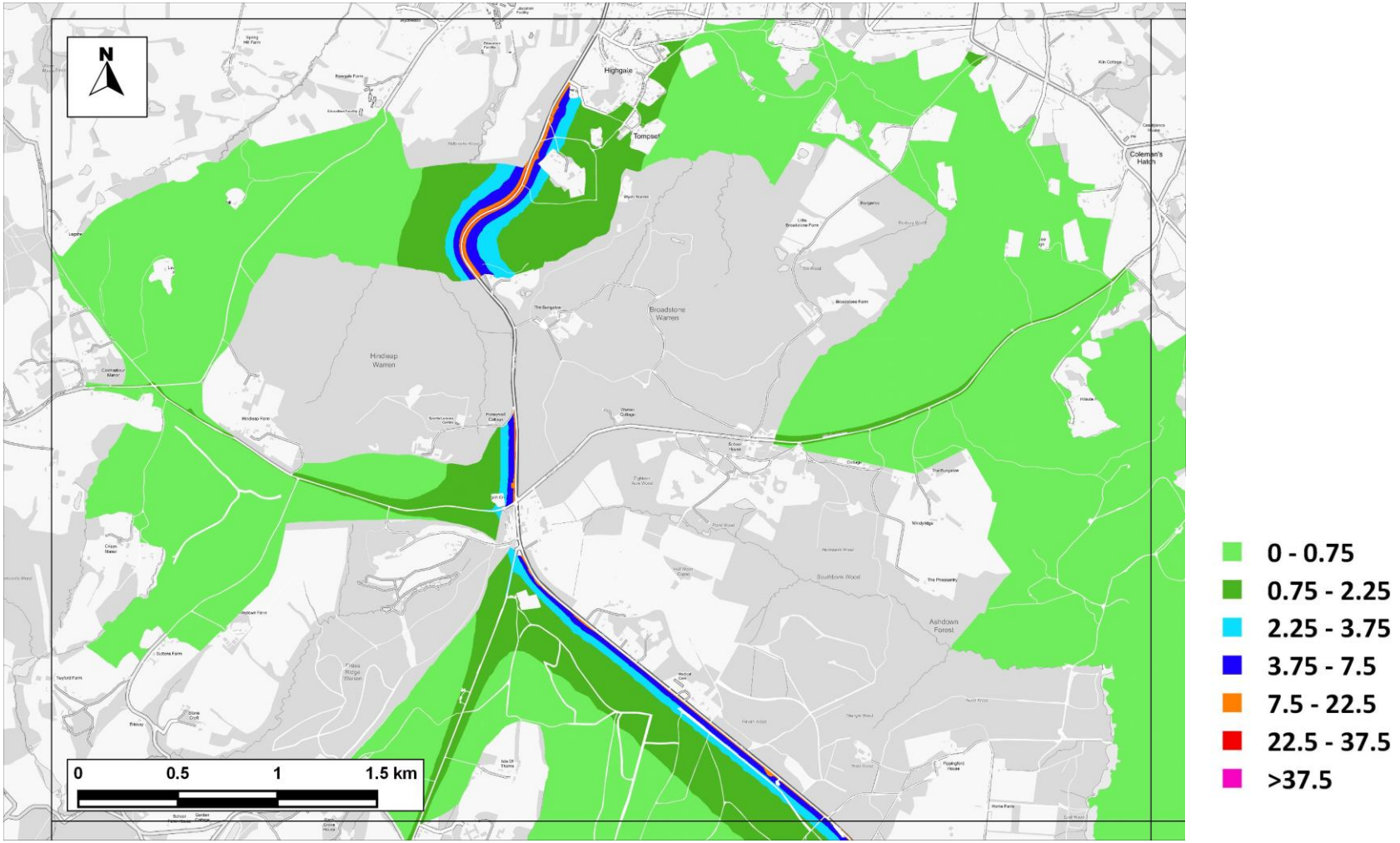


Figure A10.9: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario A (µg/m^3) – Northwest Section

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Figure A10.10: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario A (µg/m^3) – Northeast Section

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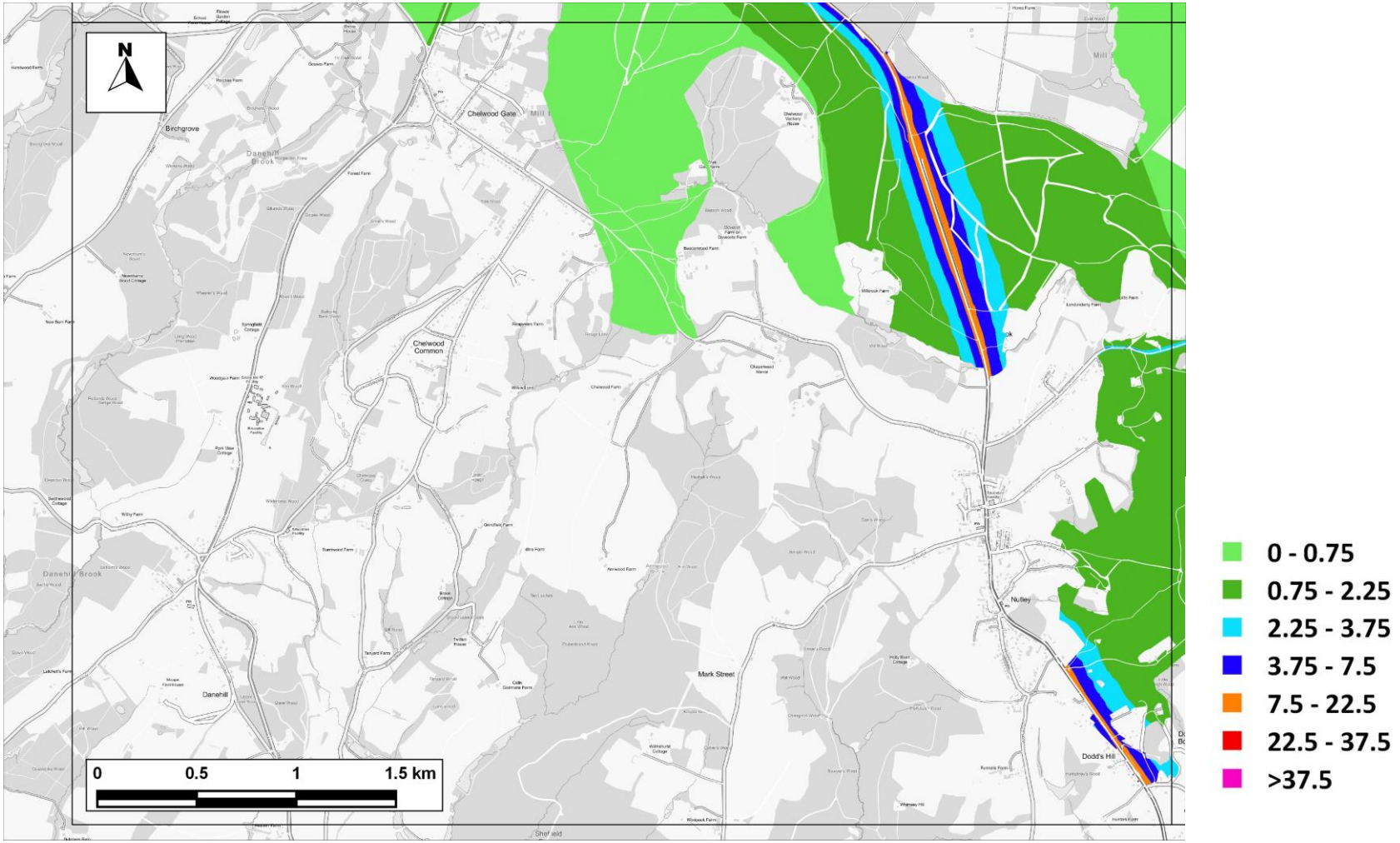


Figure A10.11: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario A (µg/m^3) – Southwest Section

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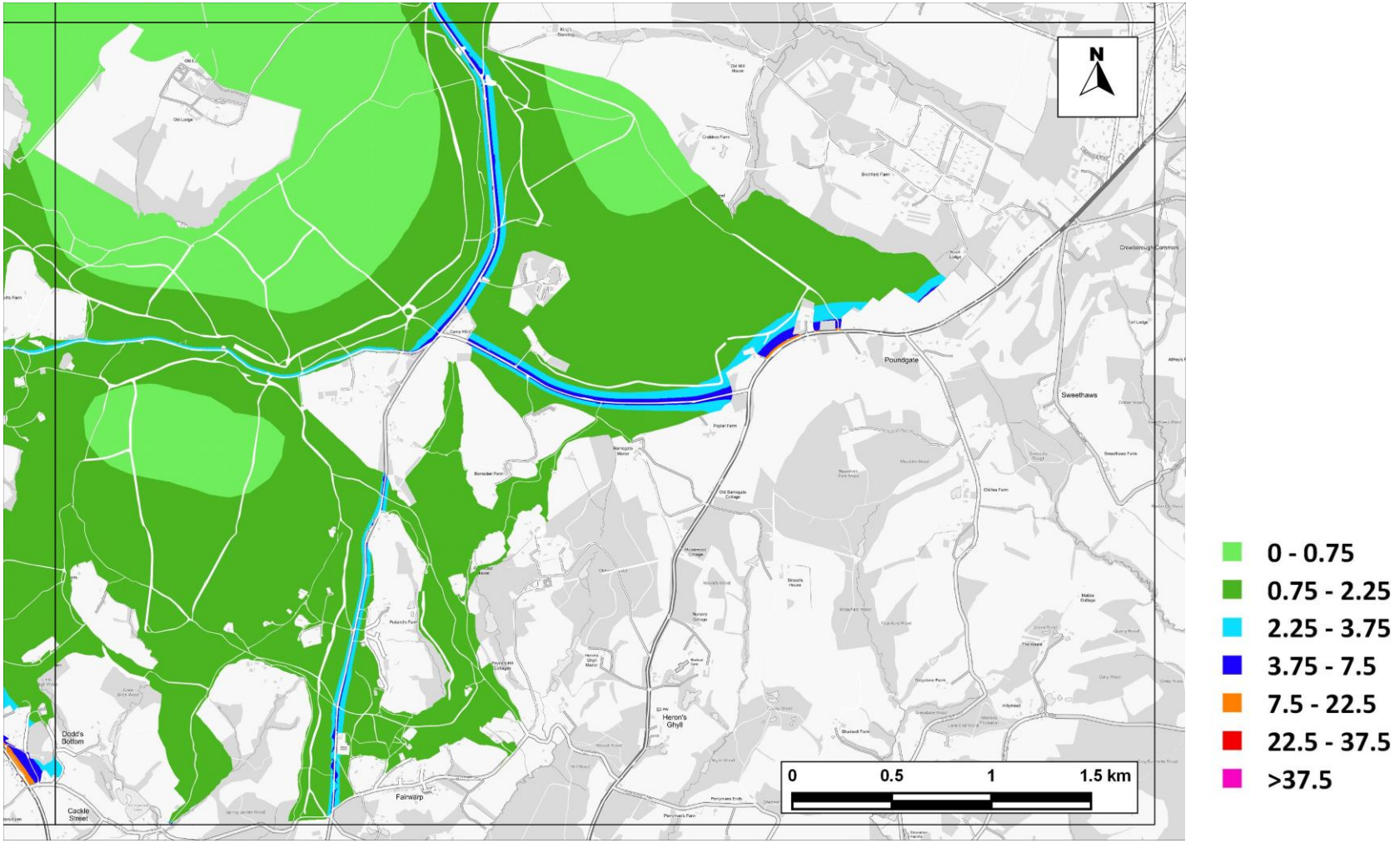


Figure A10.12: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario A (µg/m^3) – Southeast Section

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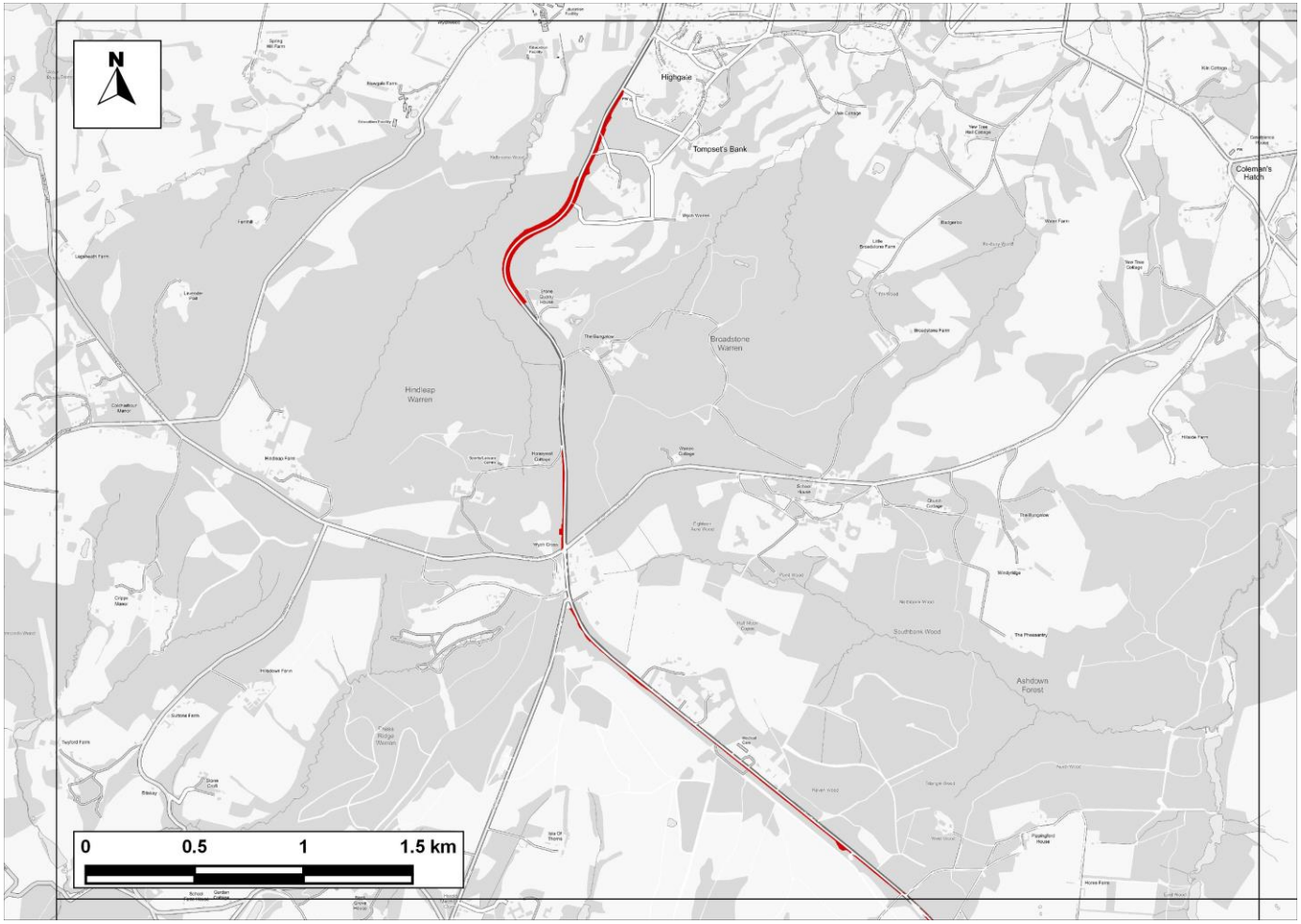


Figure A10.13: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A10.14: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northeast Section

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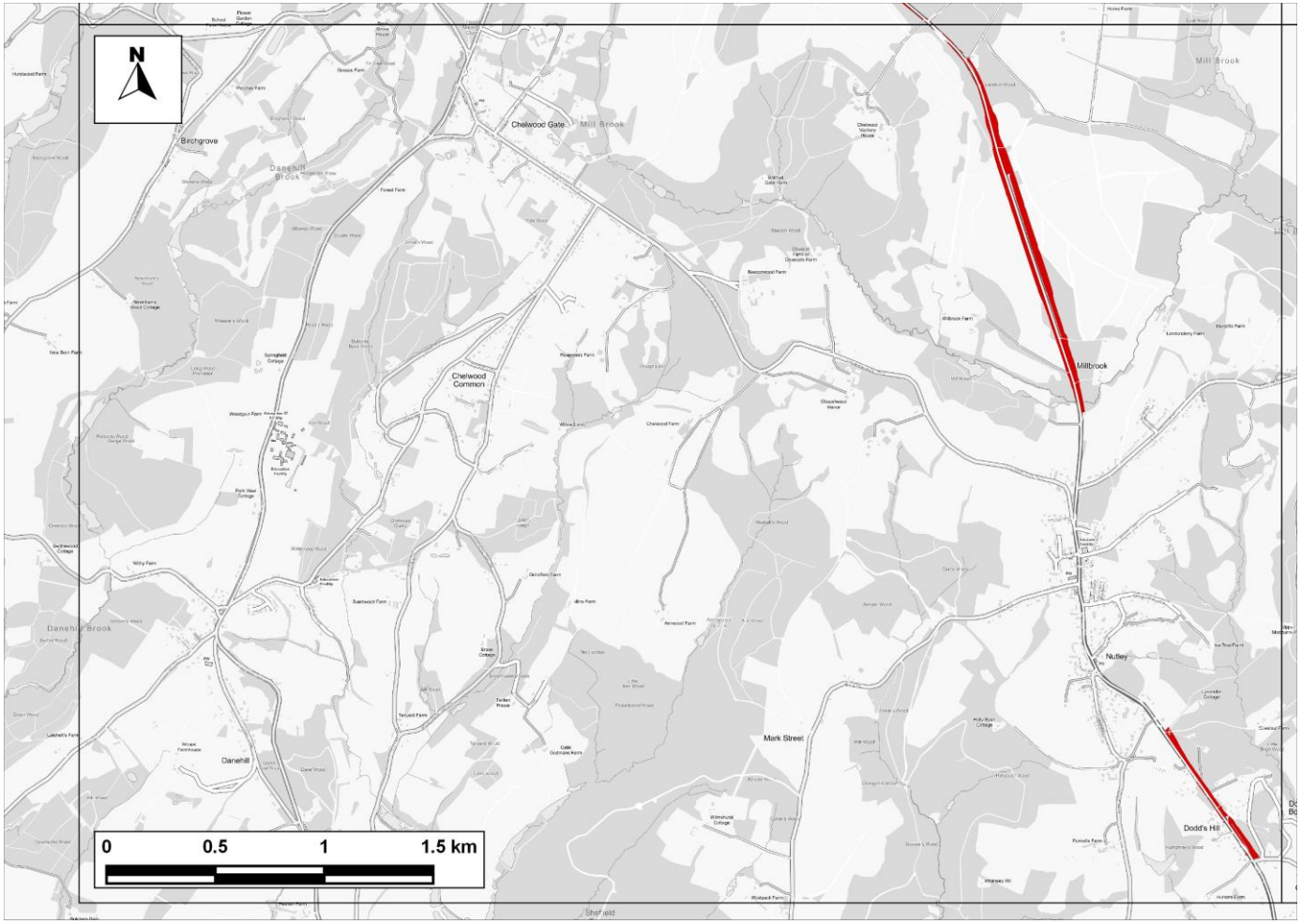


Figure A10.15: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A10.16: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southeast Section

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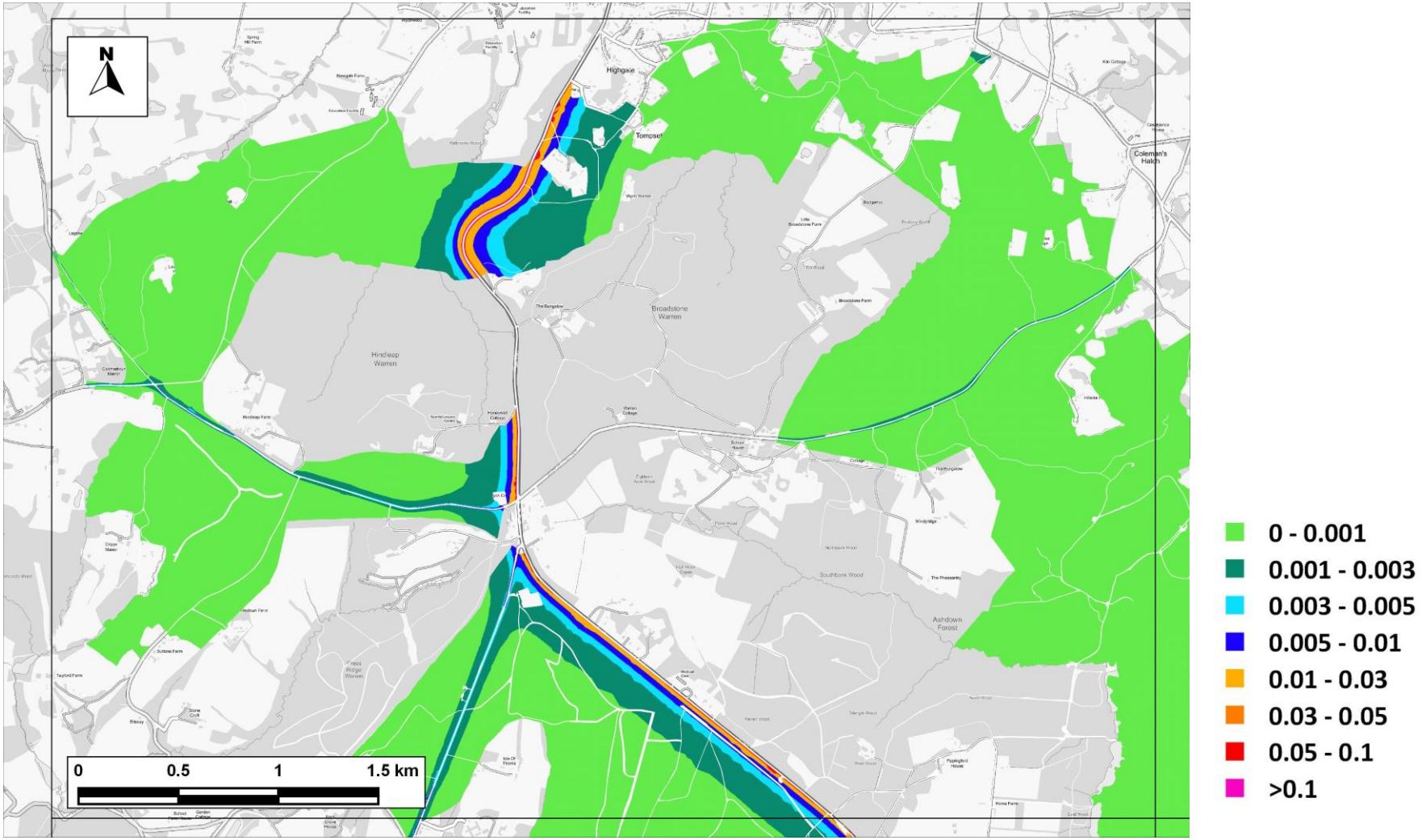


Figure A10.17: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No WDC-Growth'(µg/m^3) – Northwest Section

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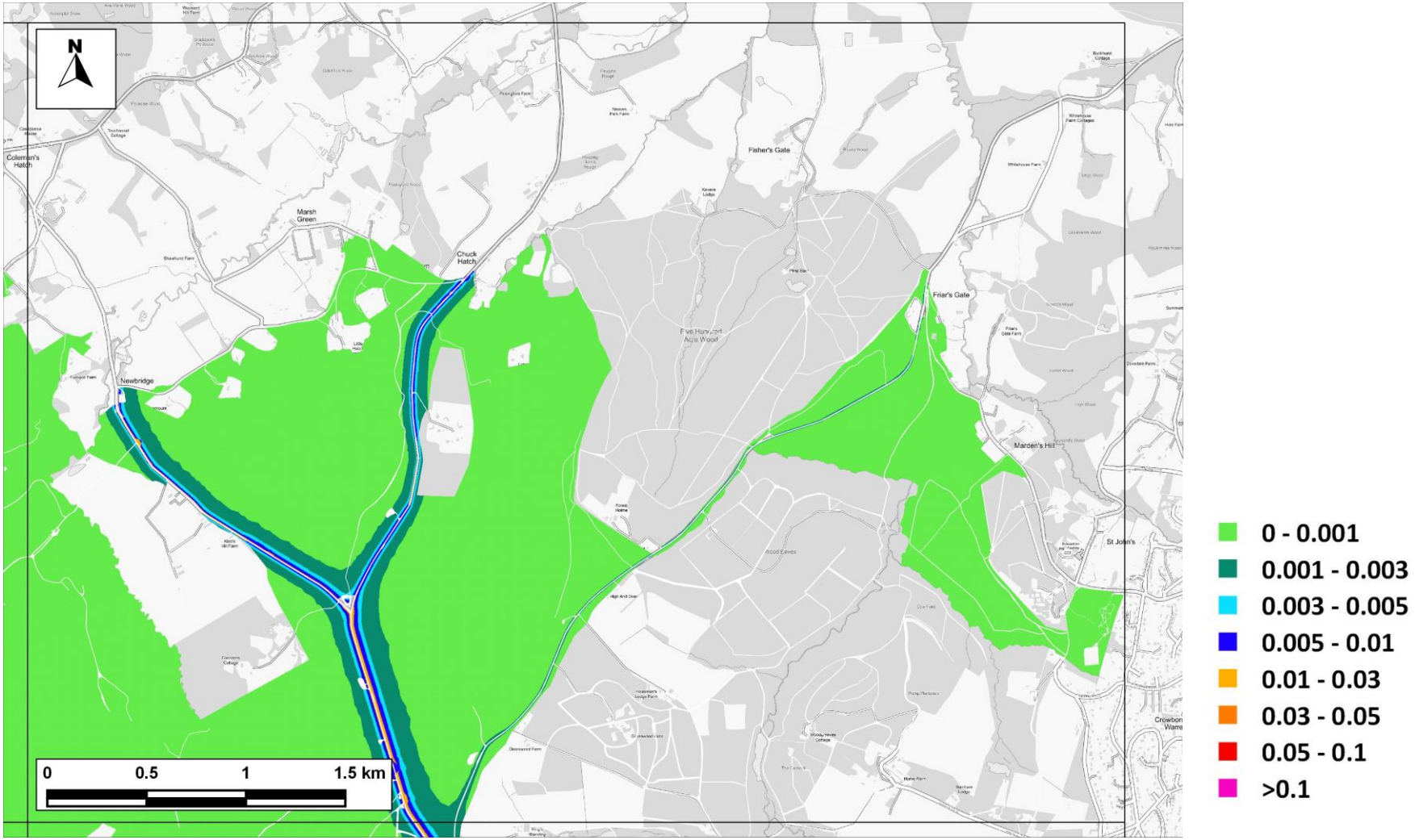


Figure A10.18: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No WDC-Growth'(µg/m^3) – Northeast Section

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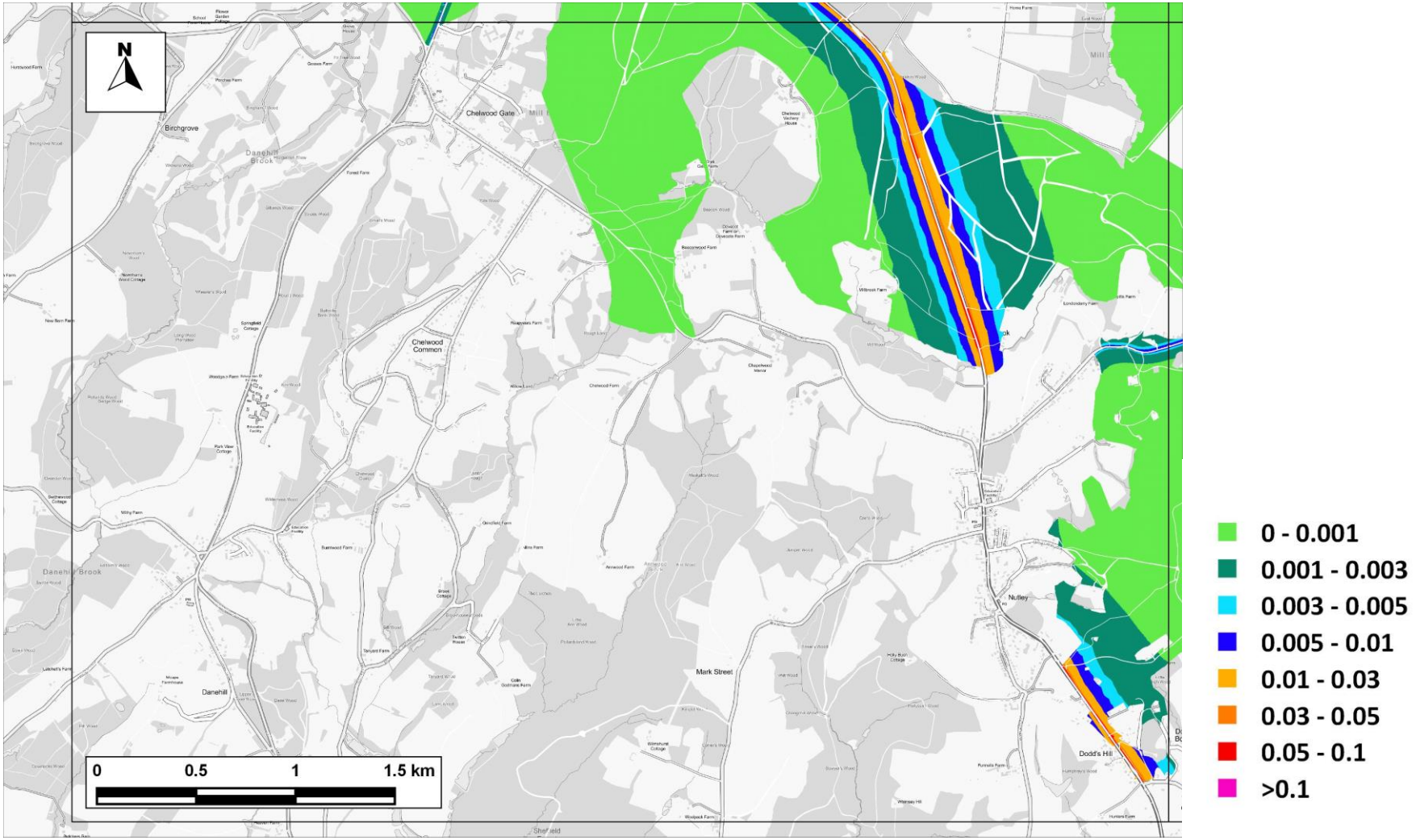


Figure A10.19: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No WDC-Growth'(µg/m^3)– Southwest Section

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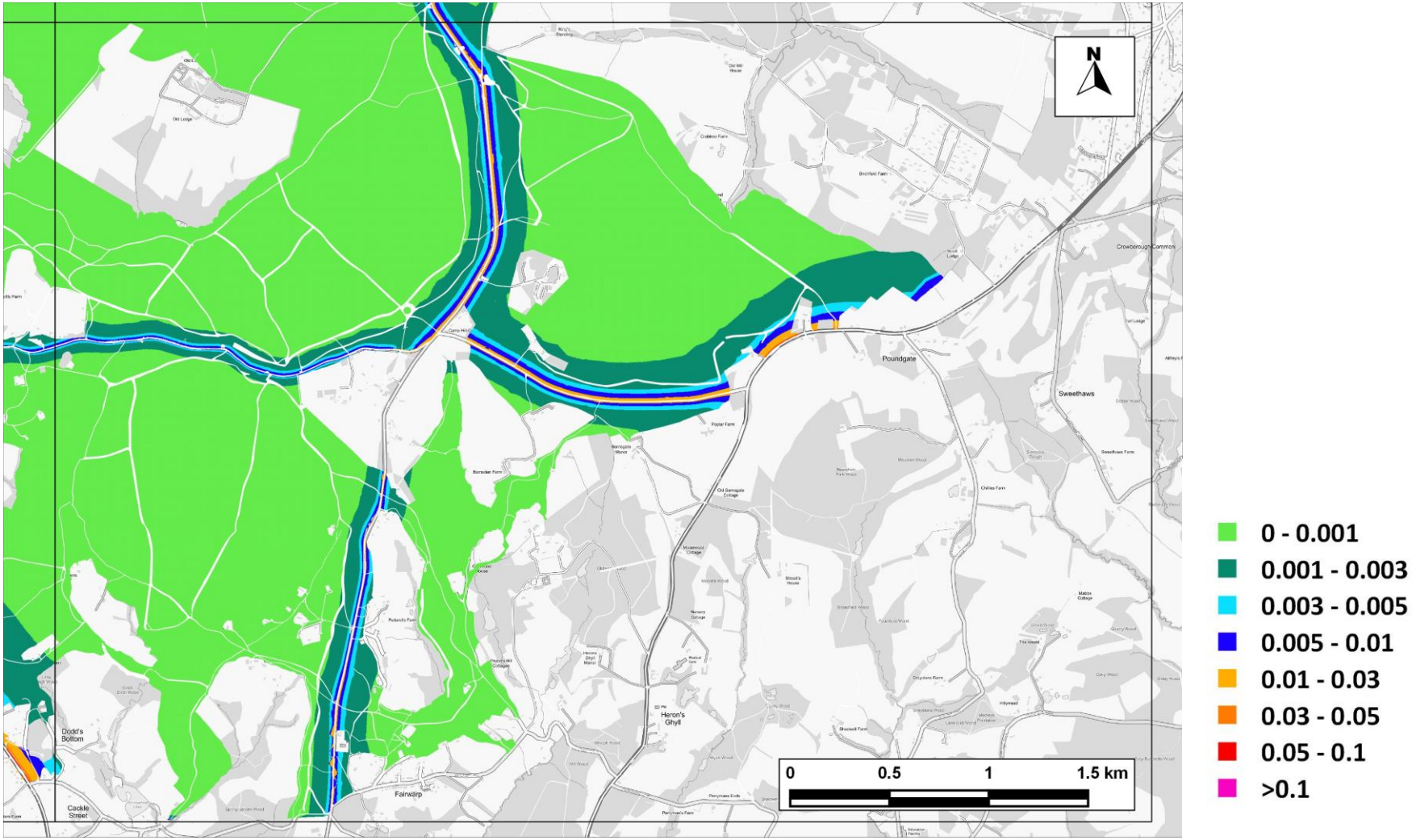


Figure A10.20: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No WDC-Growth'(µg/m^3) – Southeast Section

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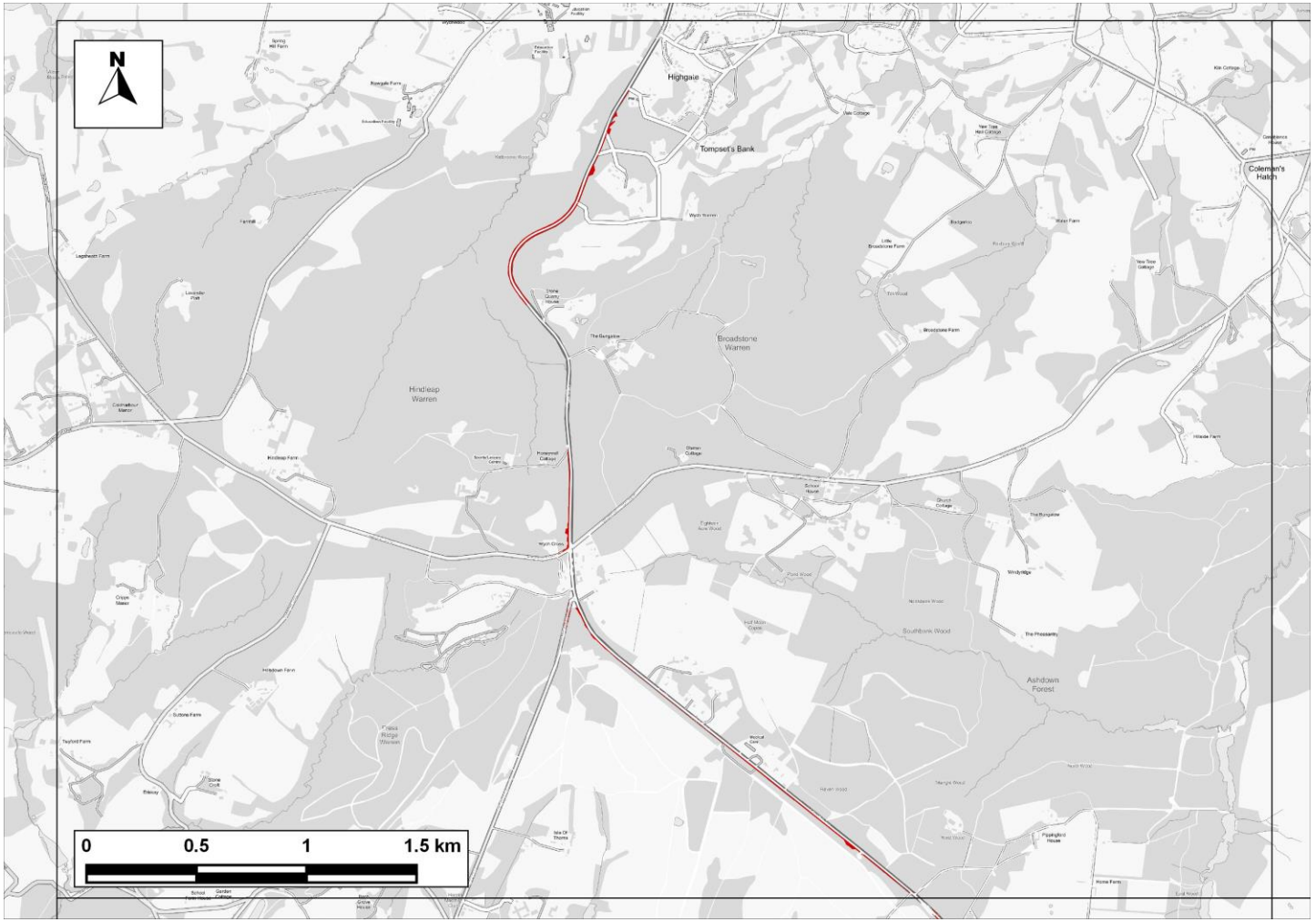


Figure A10.21: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Northwest Section.

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Figure A10.22: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Northeast Section.

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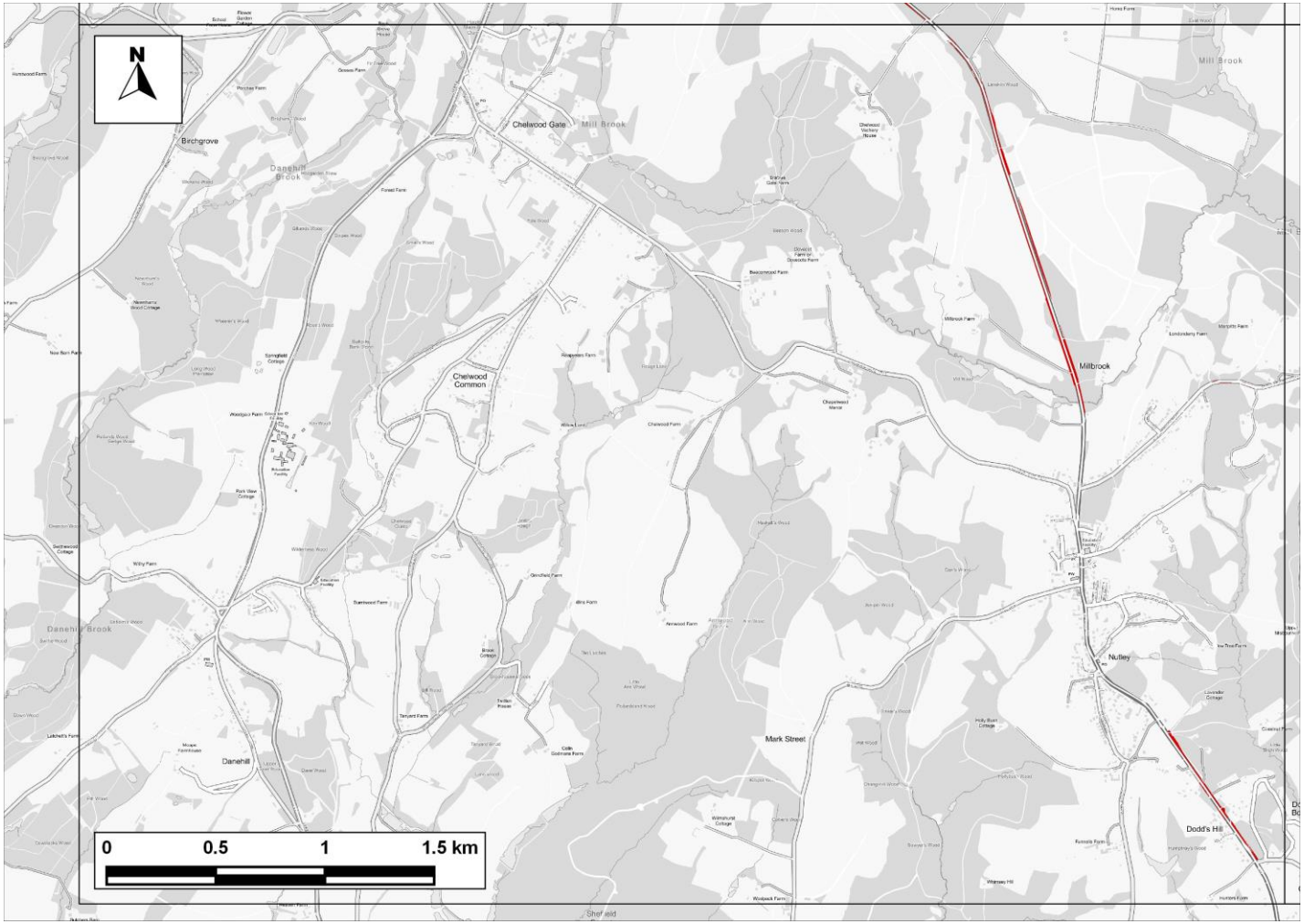


Figure A10.23: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Southwest Section.

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Figure A10.24: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Southeast Section.

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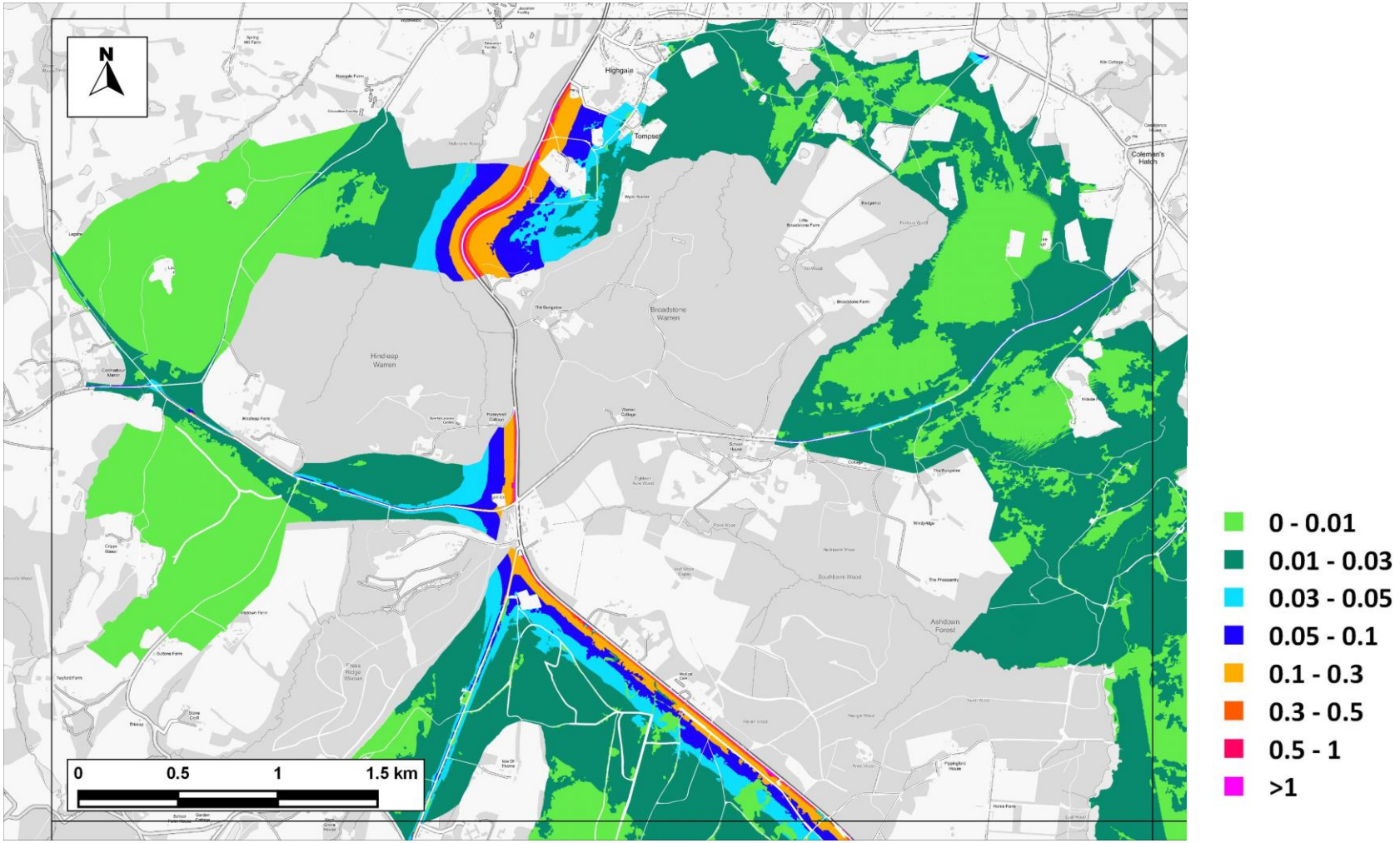


Figure A10.25: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northwest Section

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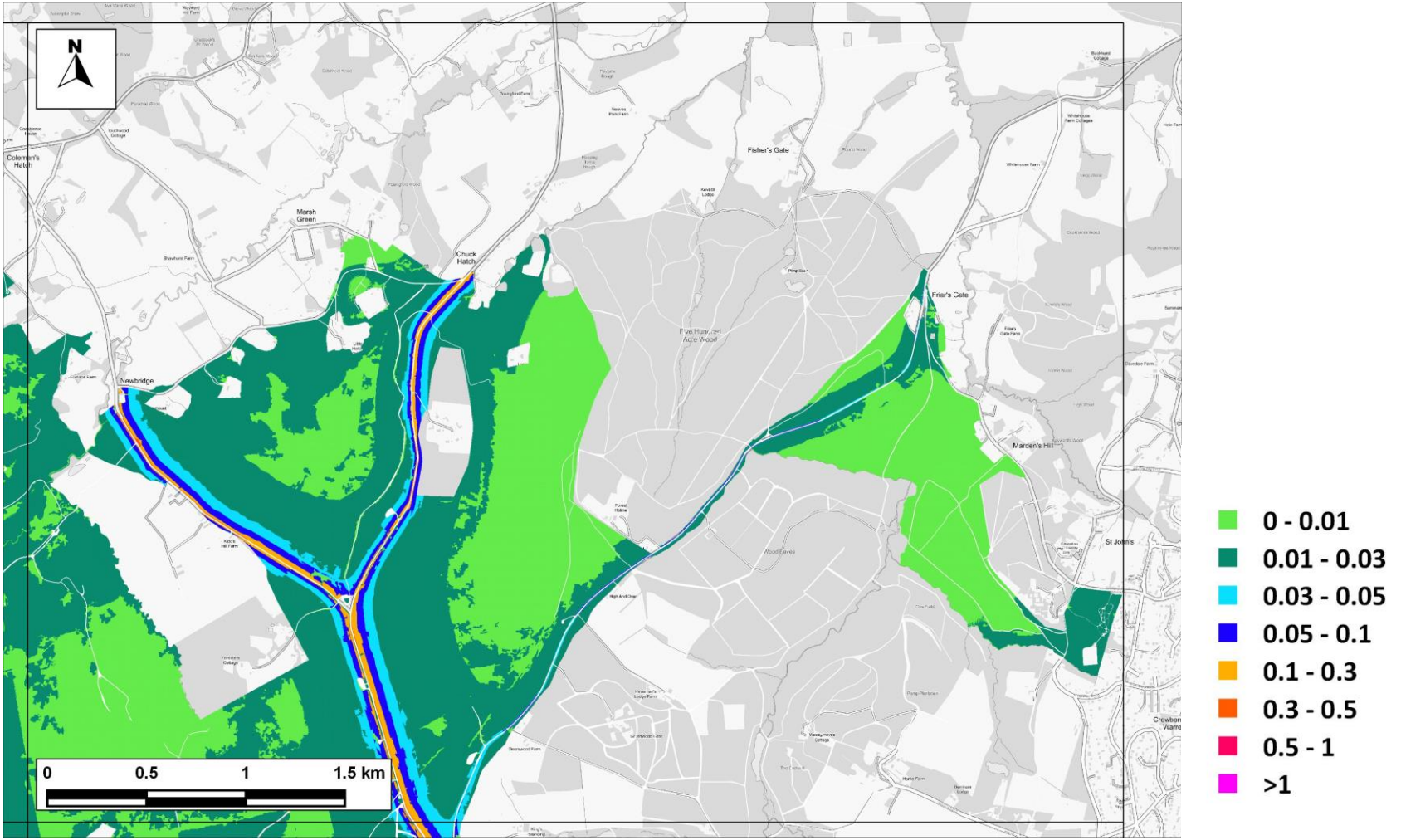


Figure A10.26: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northeast Section

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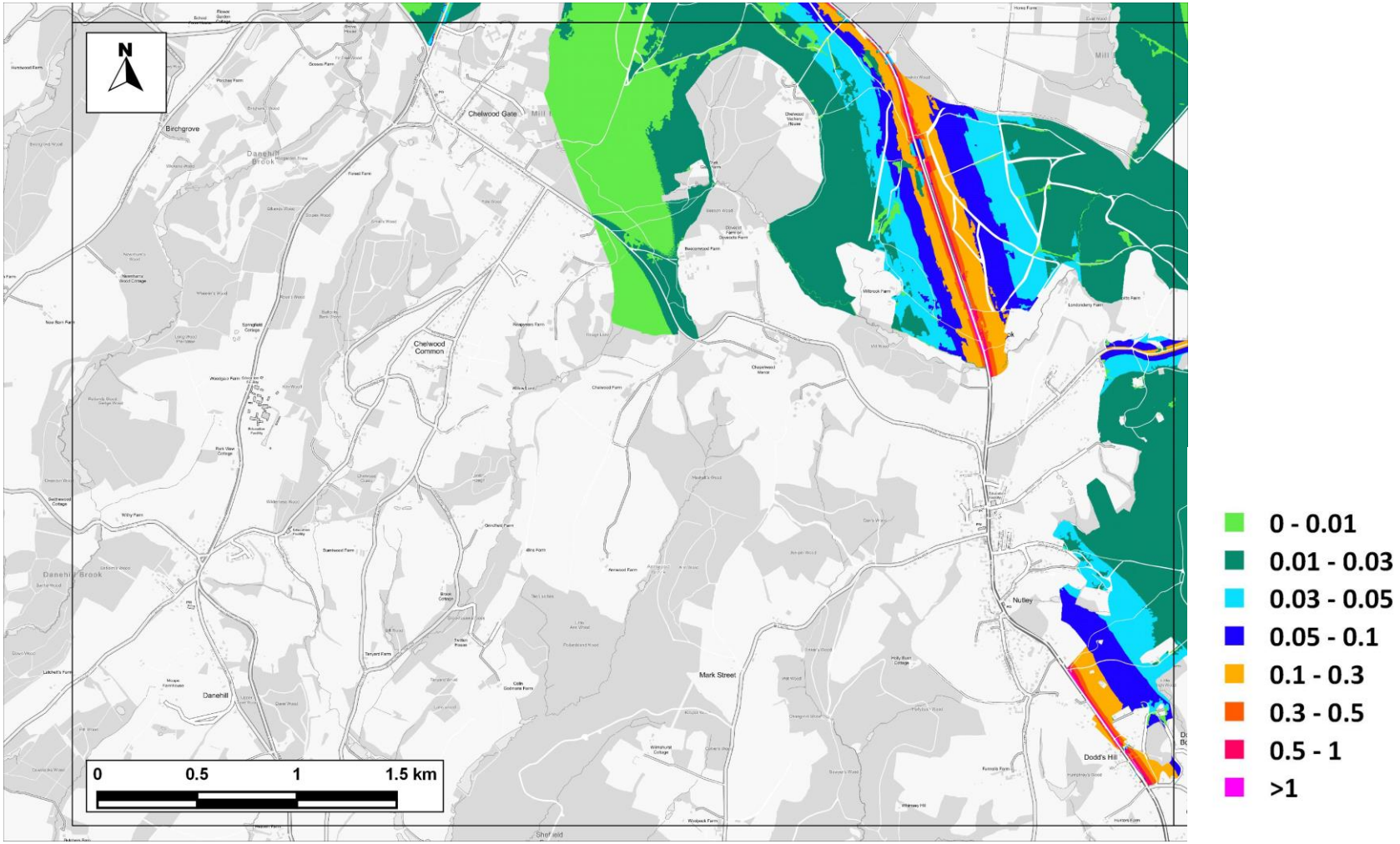


Figure A10.27: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southwest Section

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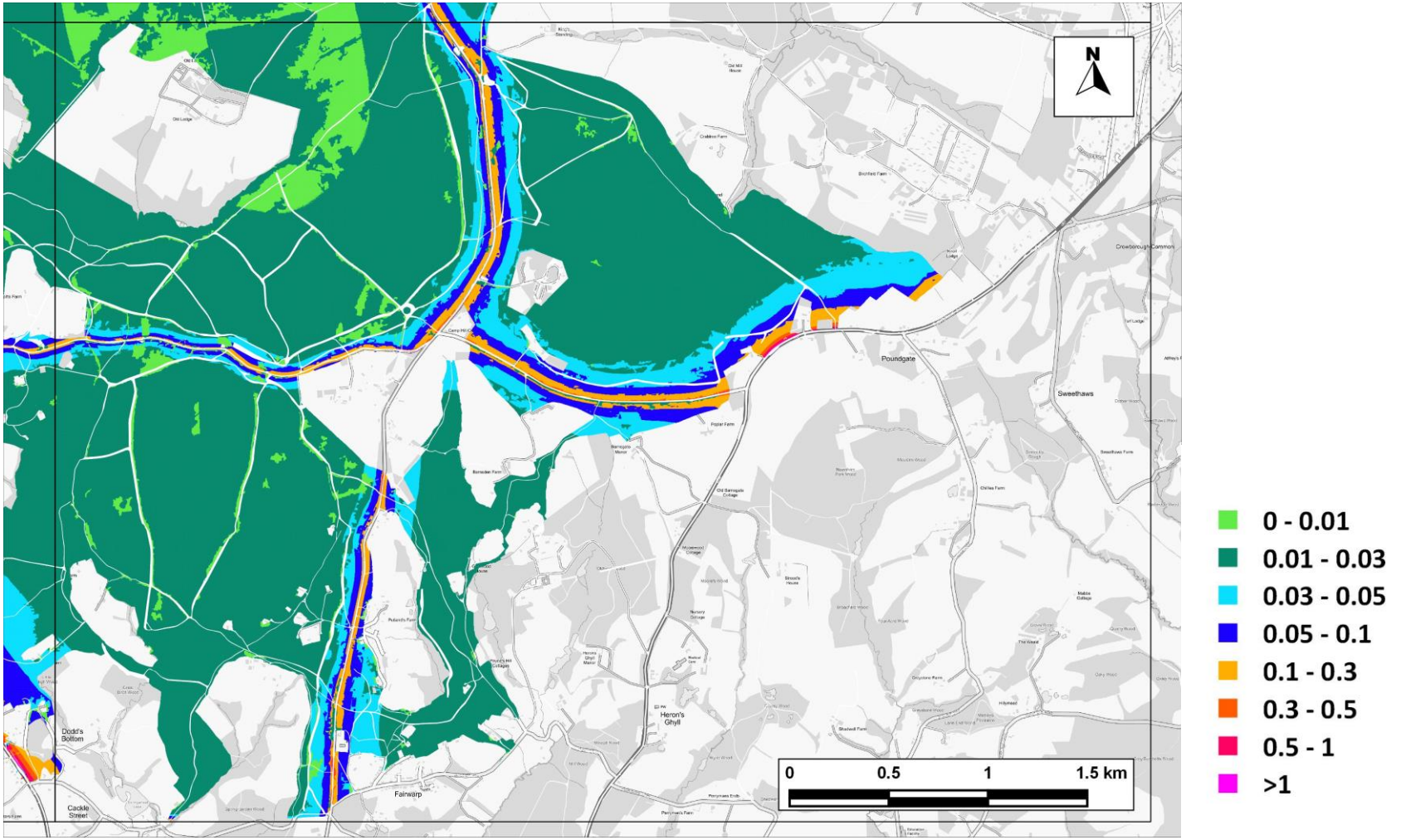


Figure A10.28: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southeast Section

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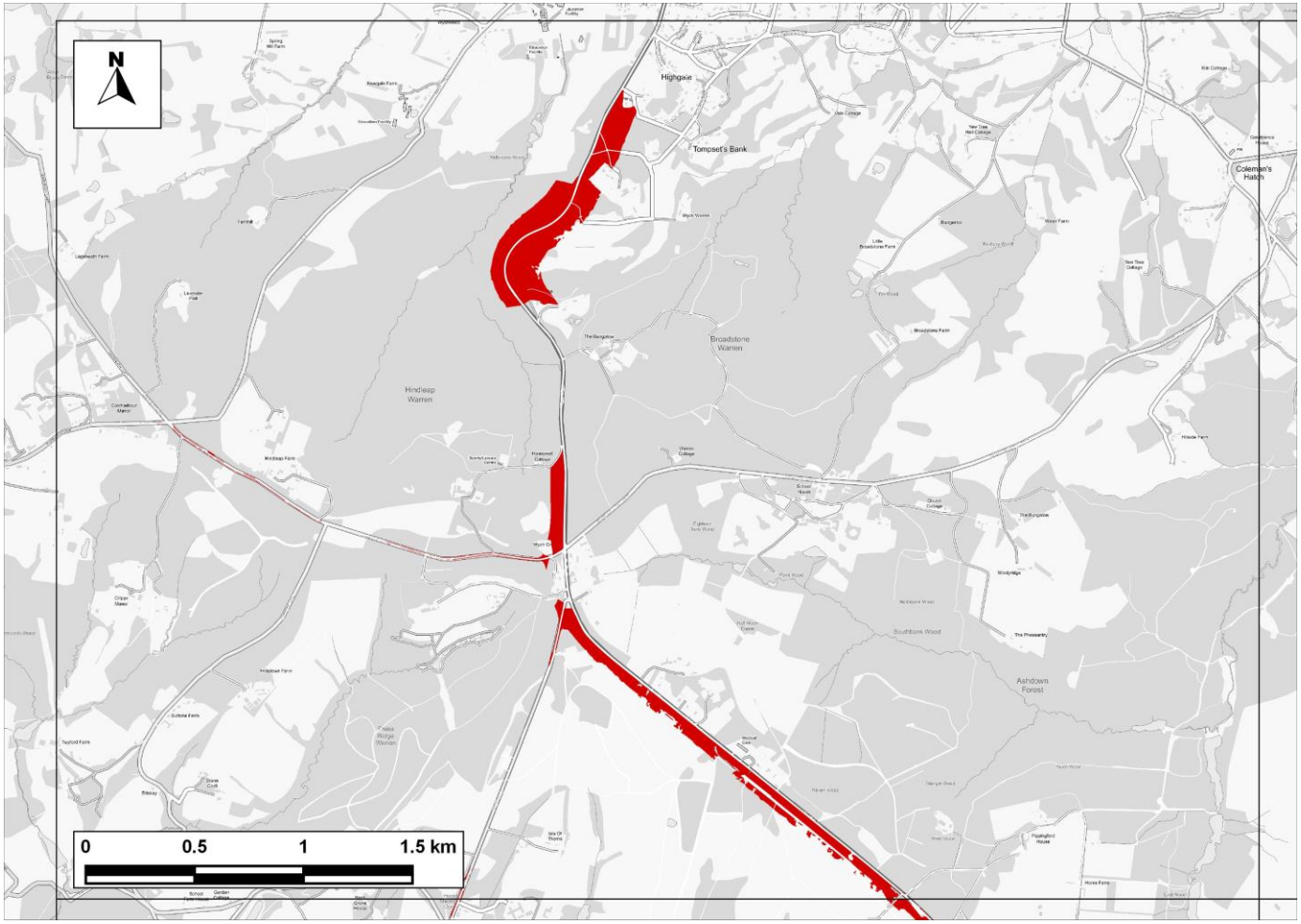


Figure A10.29: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Northwest Section

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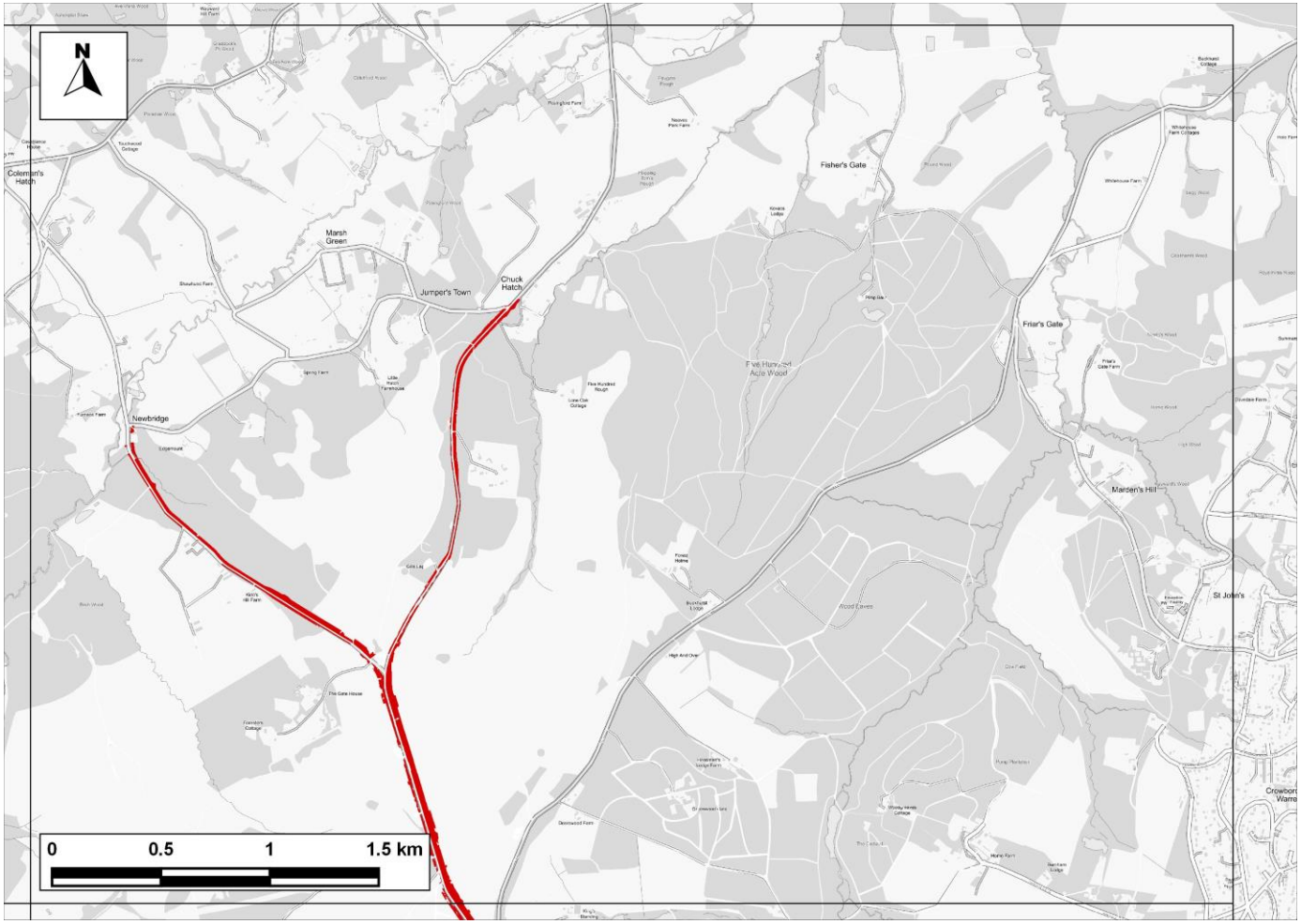


Figure A10.30: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Northeast Section

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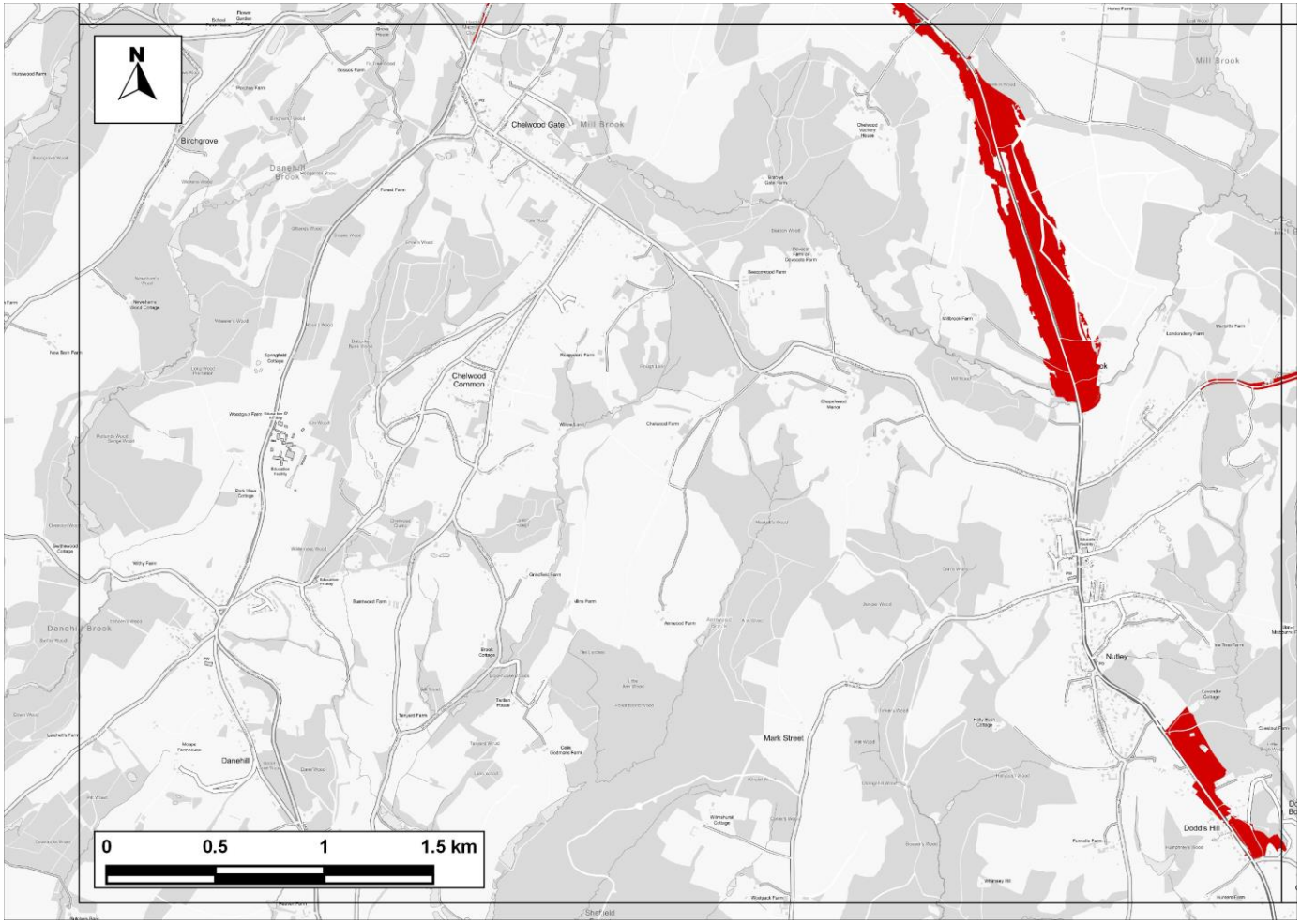


Figure A10.31: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Southwest Section

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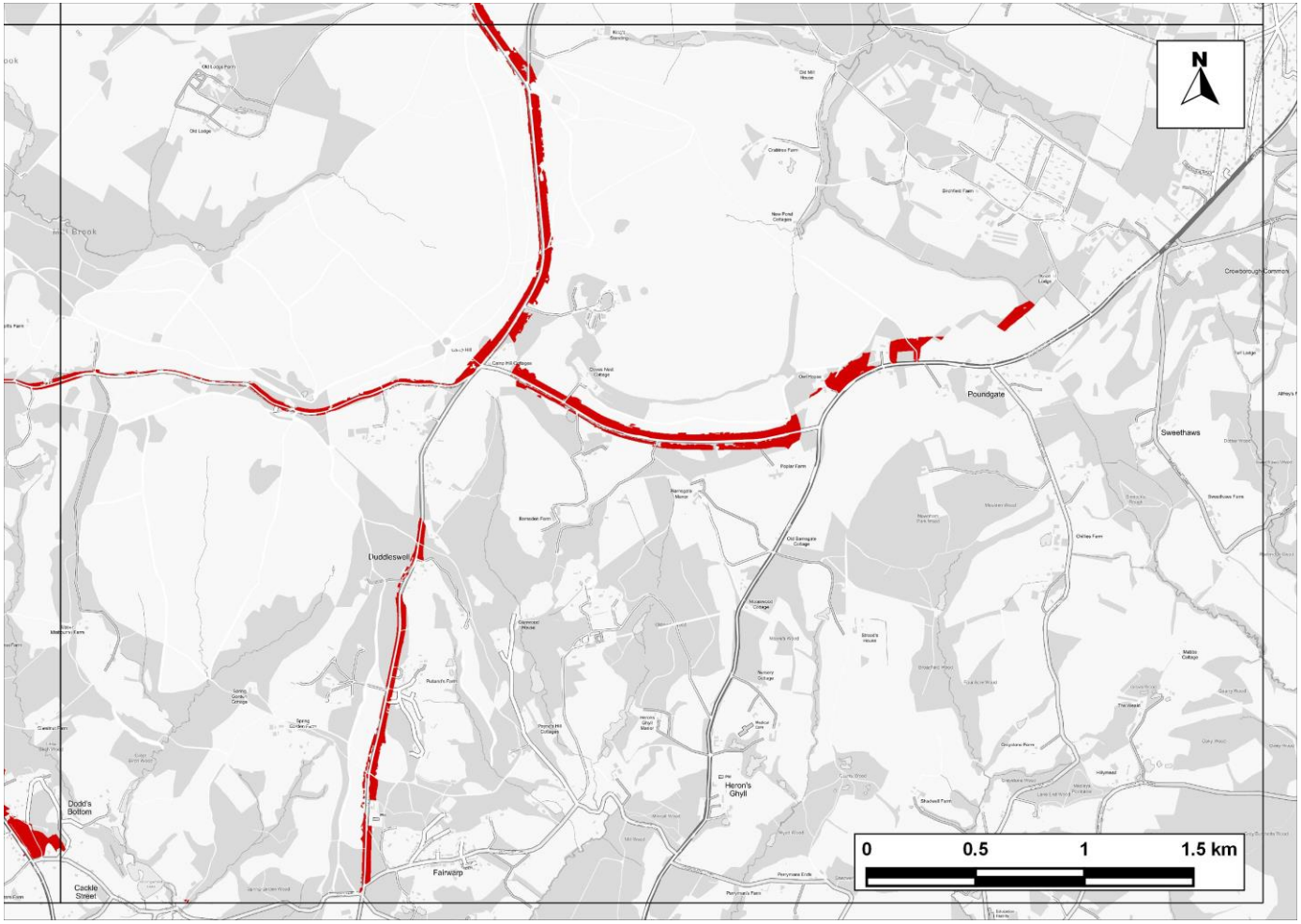


Figure A10.32 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Southeast Section

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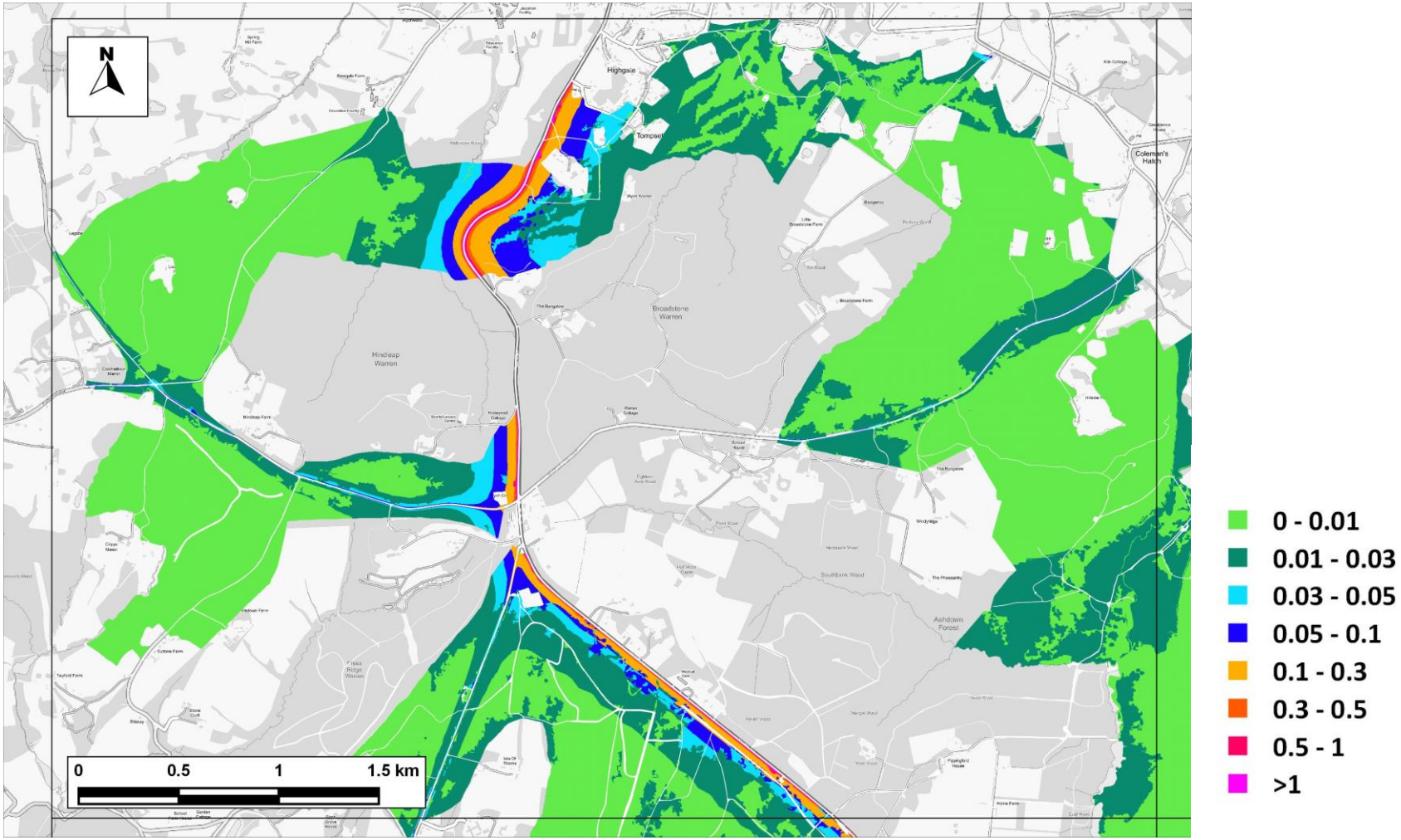


Figure A10.33: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northwest Section

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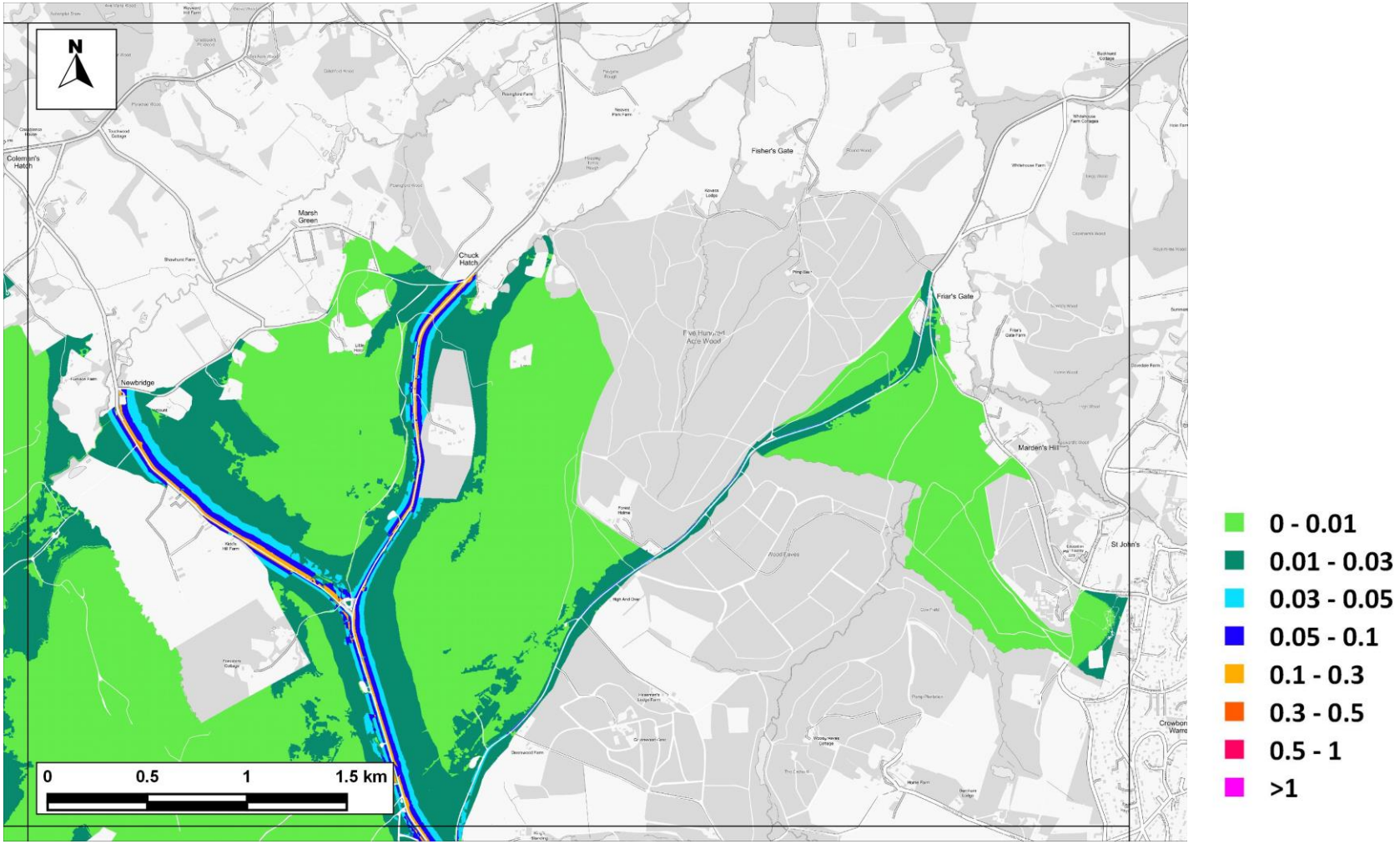


Figure A10.34: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northeast Section

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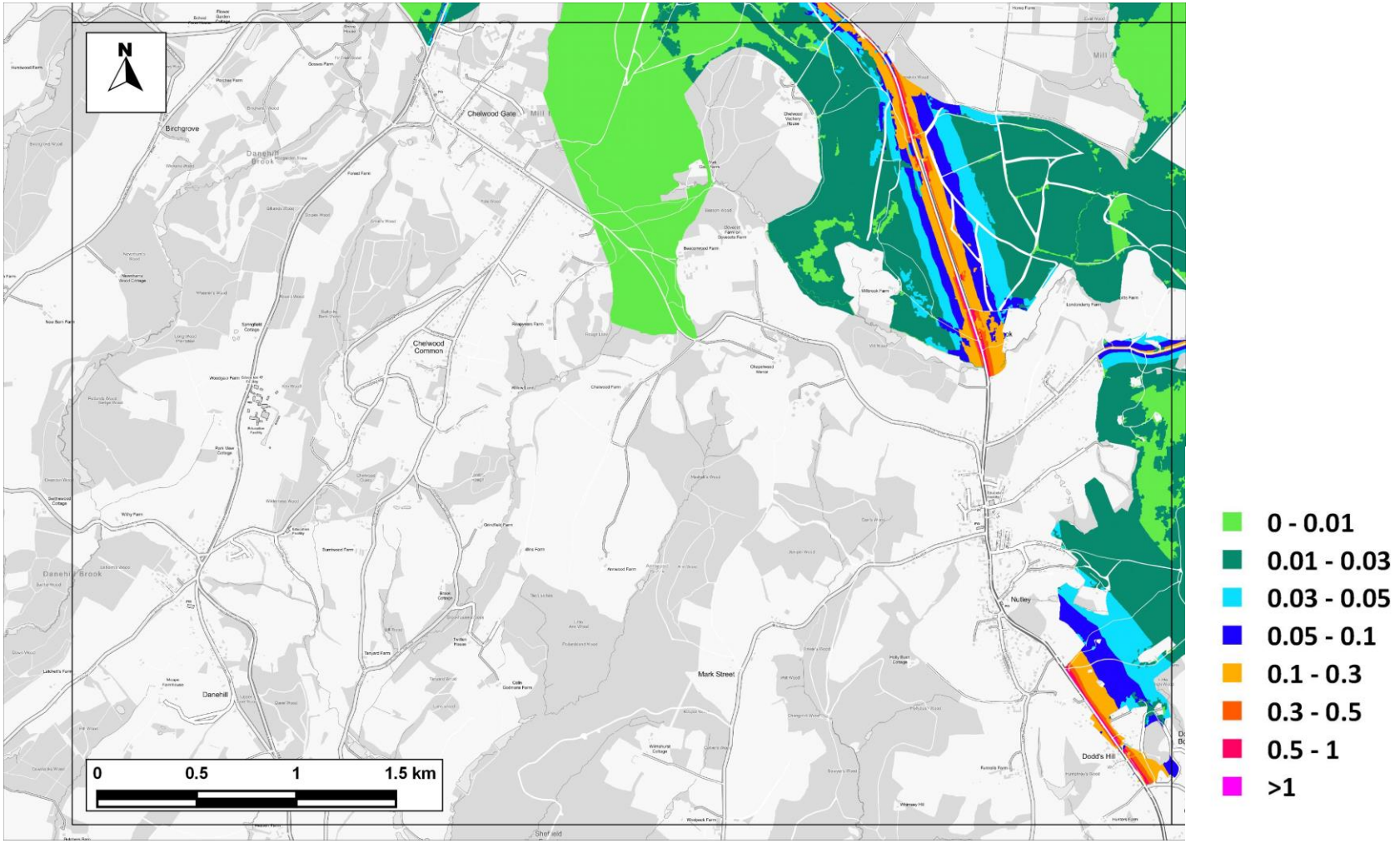


Figure A10.35: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southwest Section

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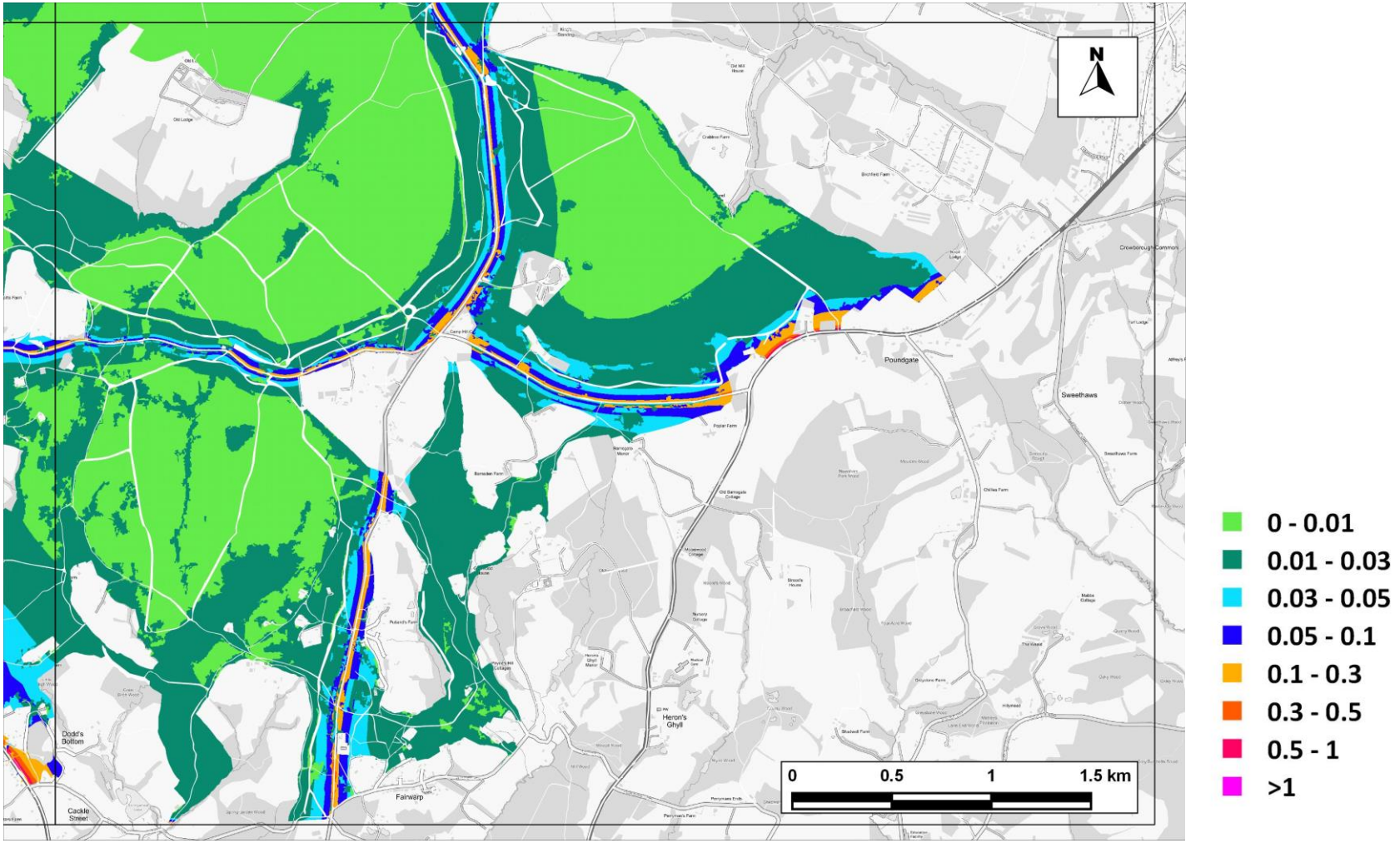


Figure A10.36: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southeast Section

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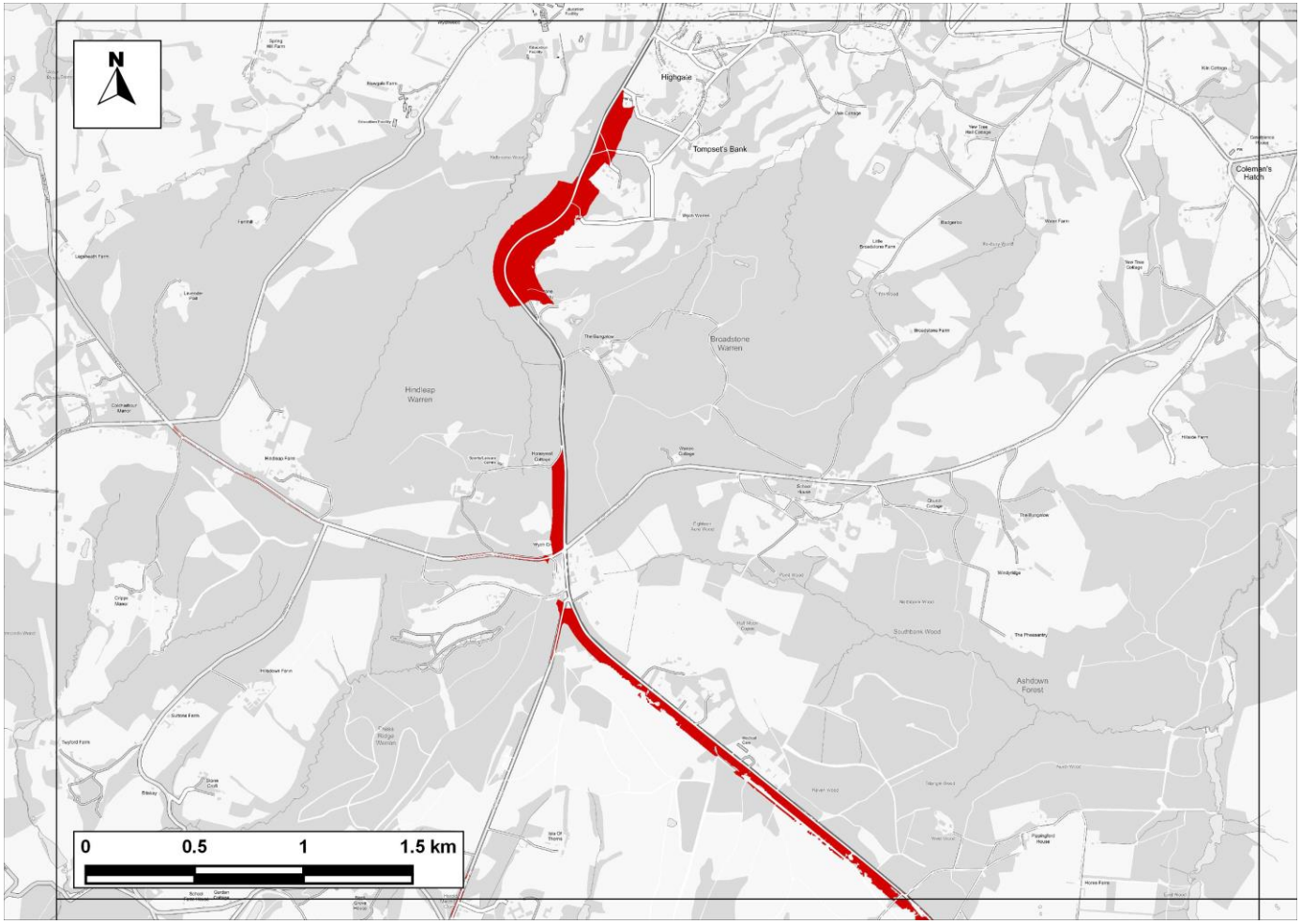


Figure A10.37: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Northwest Section

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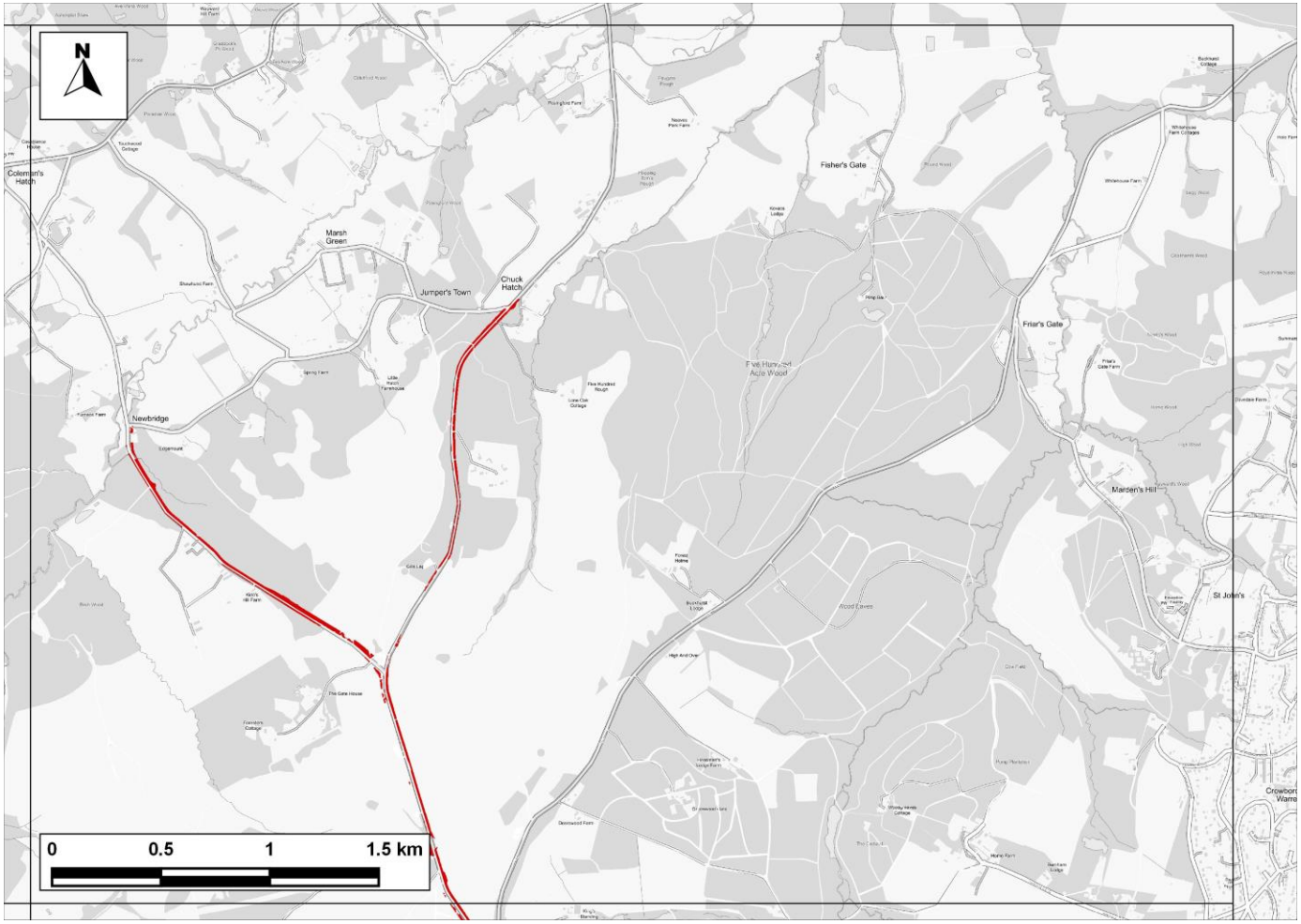


Figure A10.38: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Northeast Section

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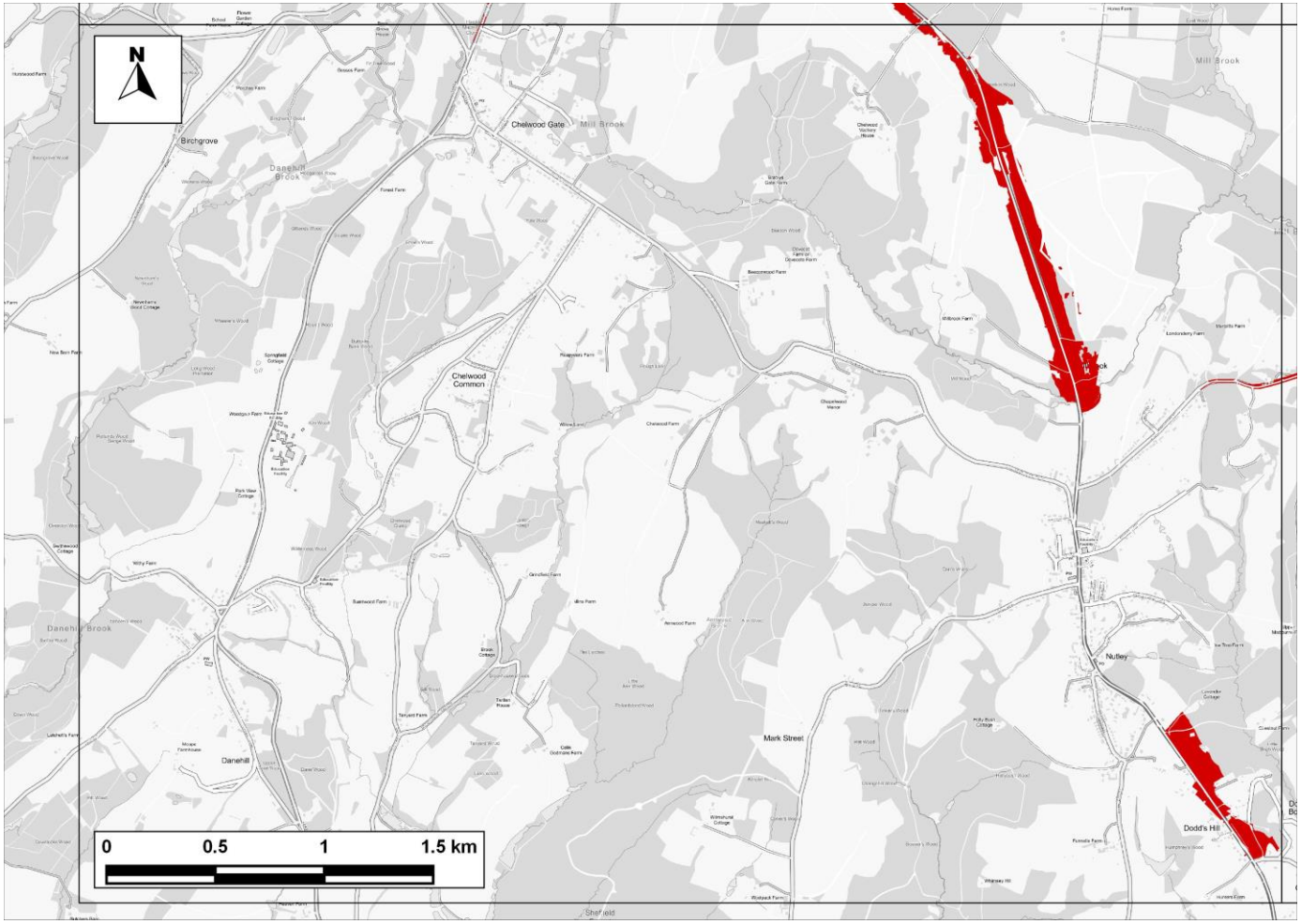


Figure A10.39: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Southwest Section

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Figure A10.40 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Southeast Section

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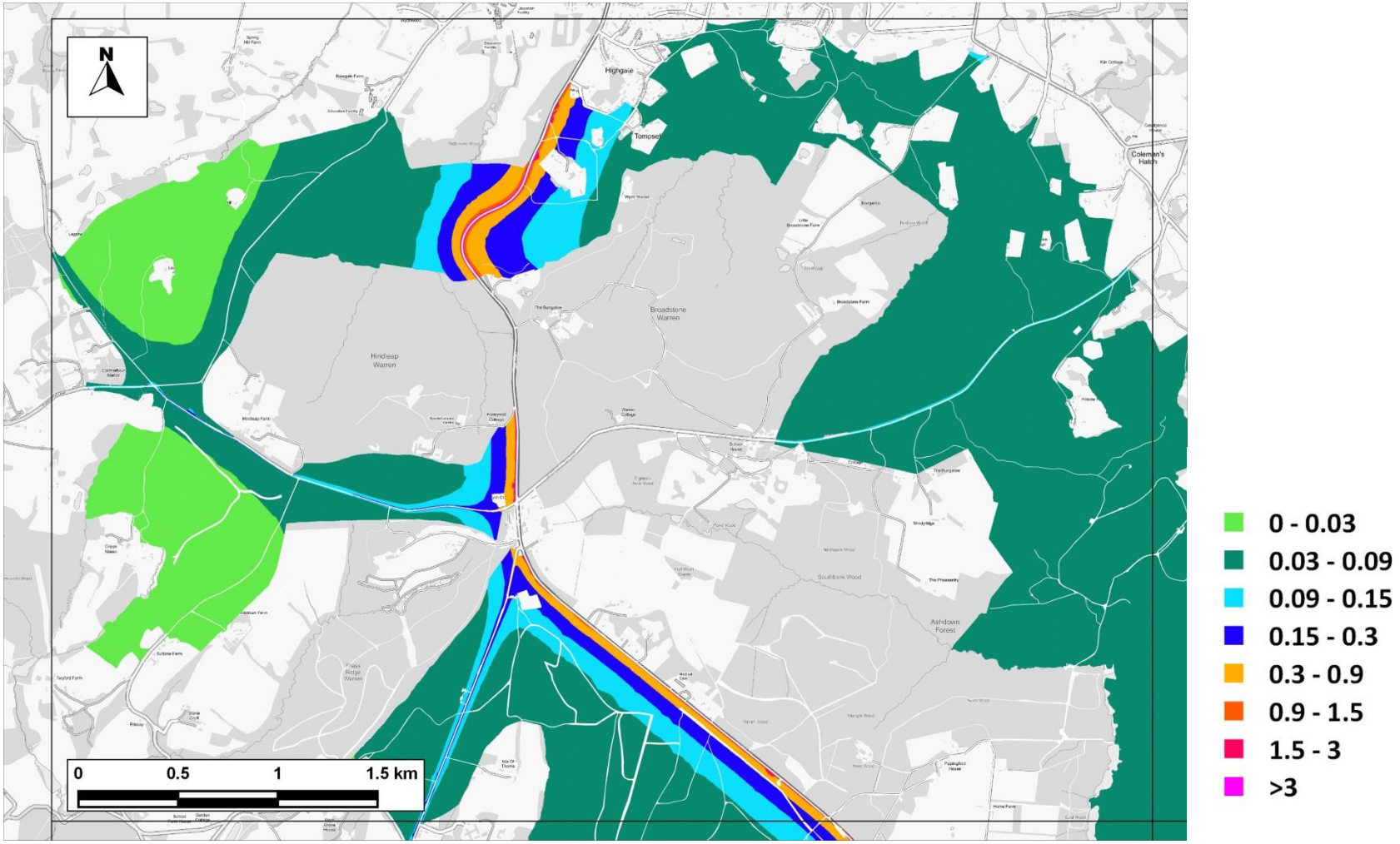


Figure A10.41: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario B (µg/m^3) – Northwest Section

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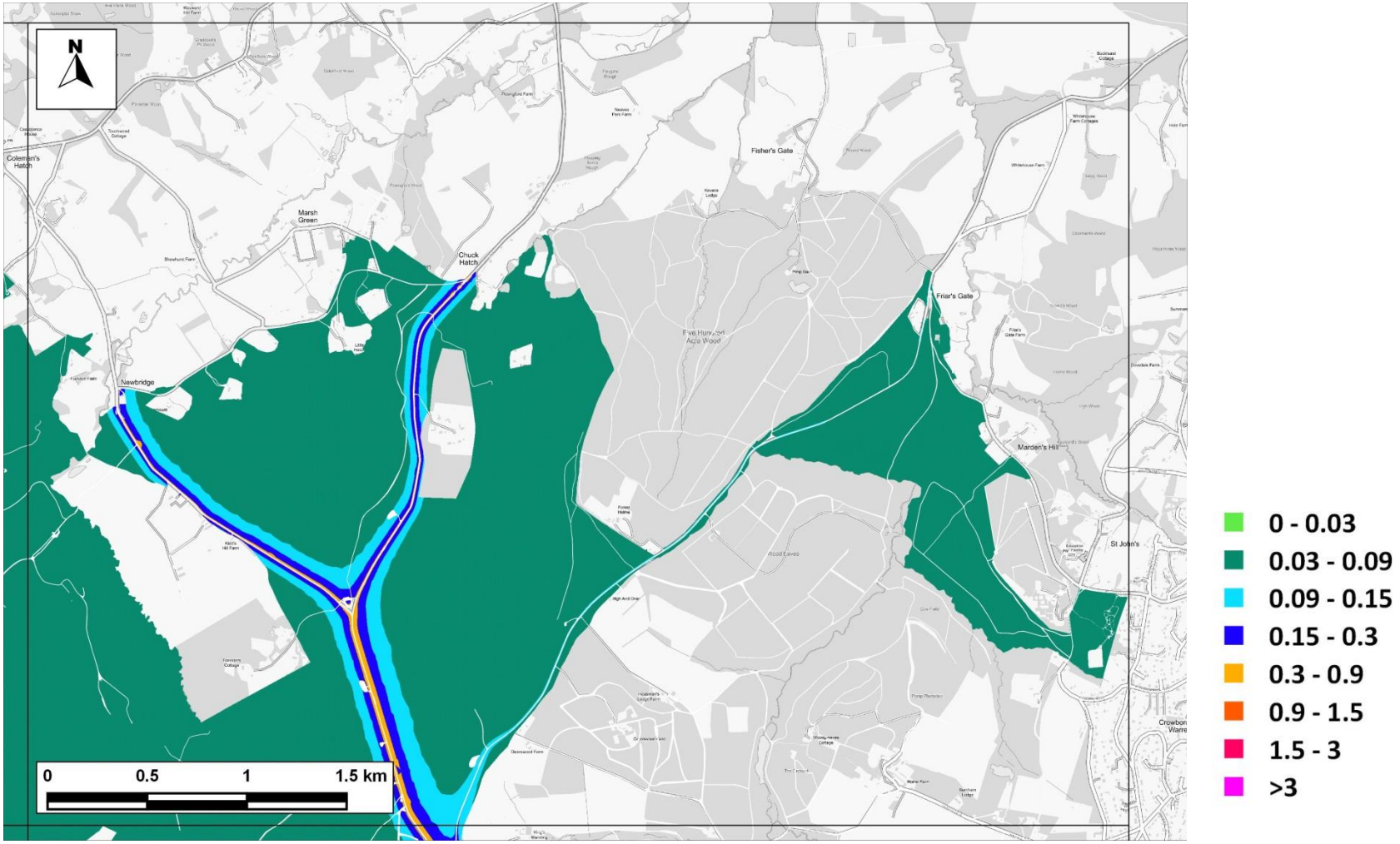


Figure A10.42: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario B (µg/m^3) – Northeast Section

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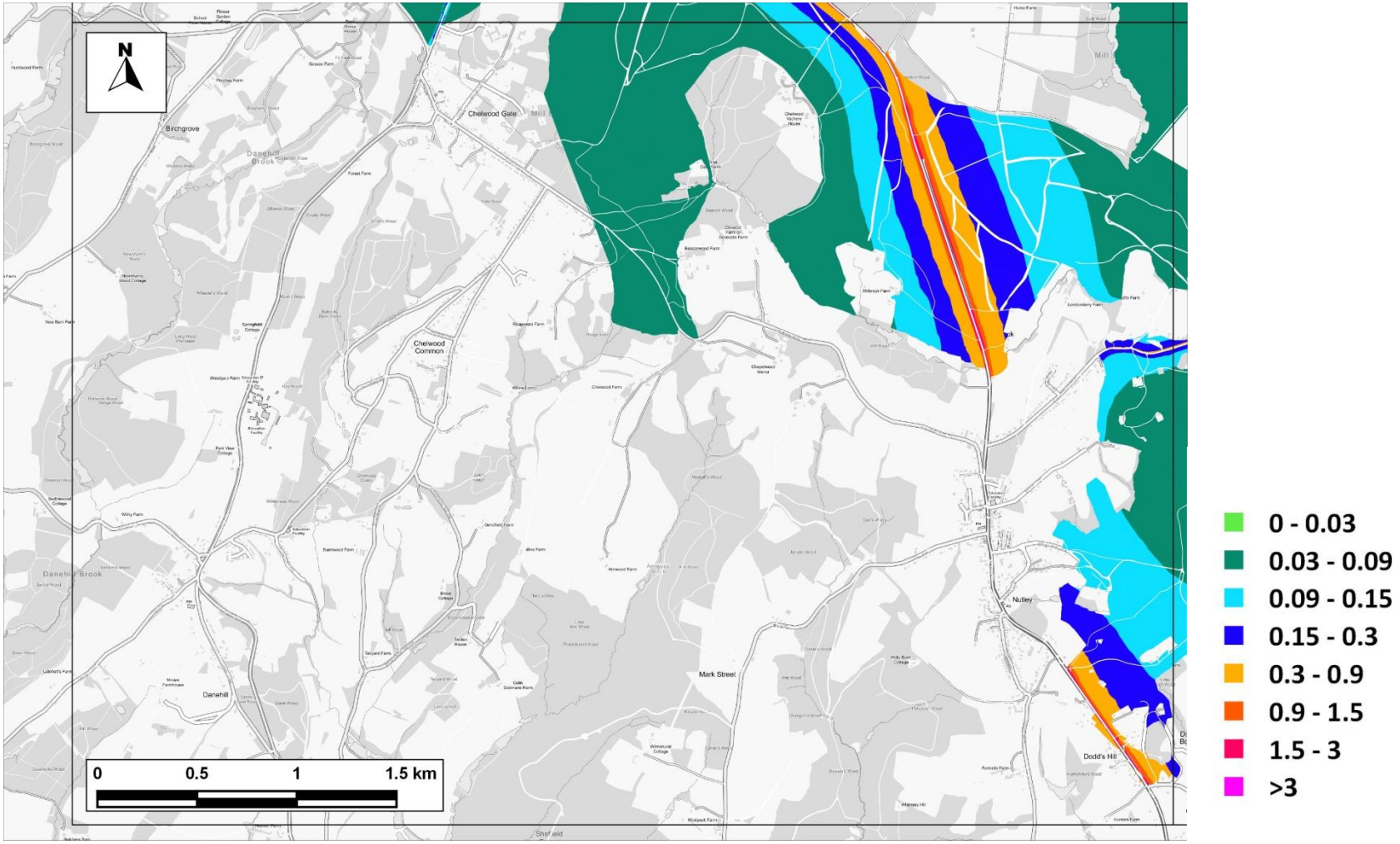


Figure A10.43: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario B (µg/m^3)– Southwest Section

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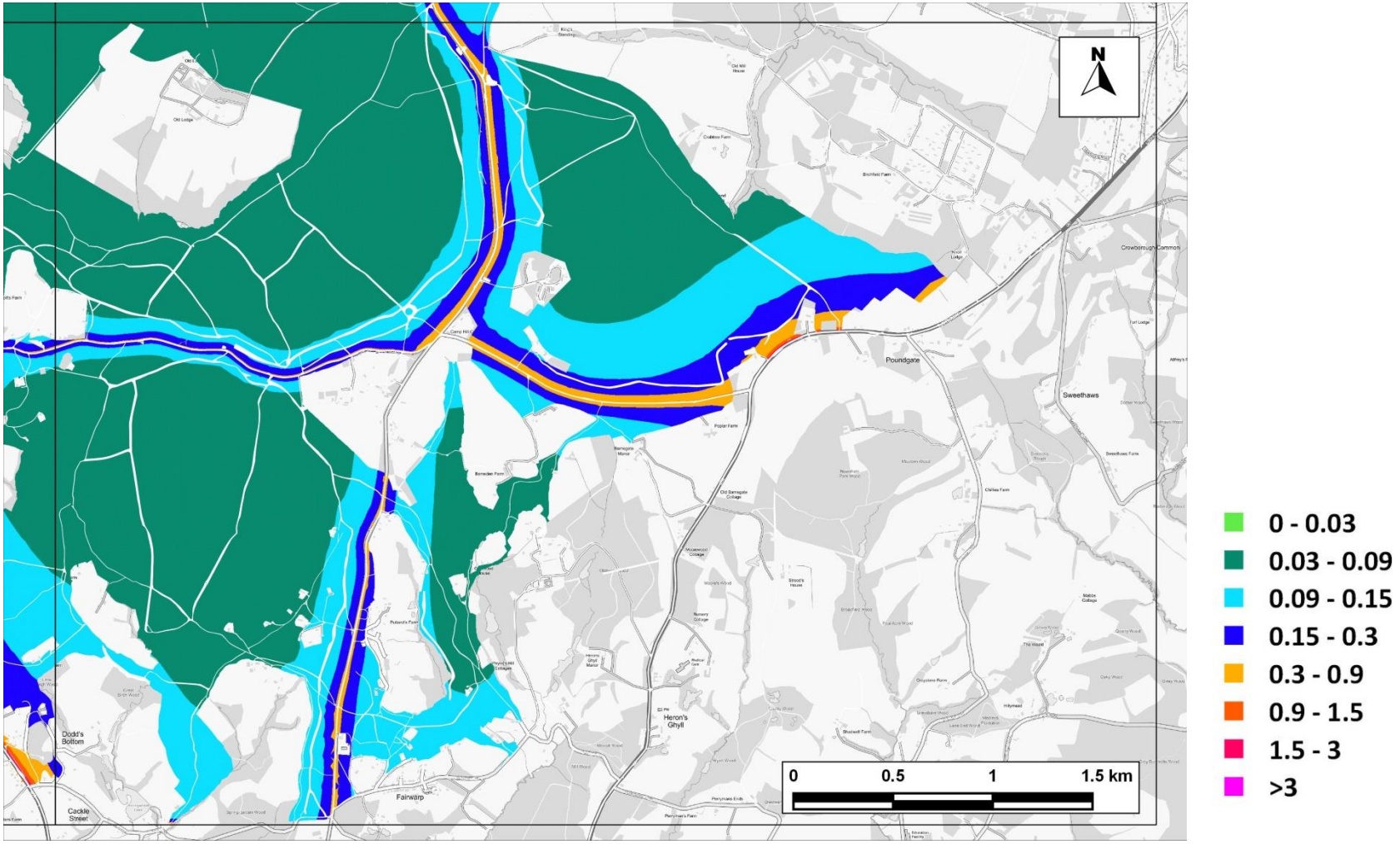


Figure A10.44: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario B (µg/m^3) – Southeast Section

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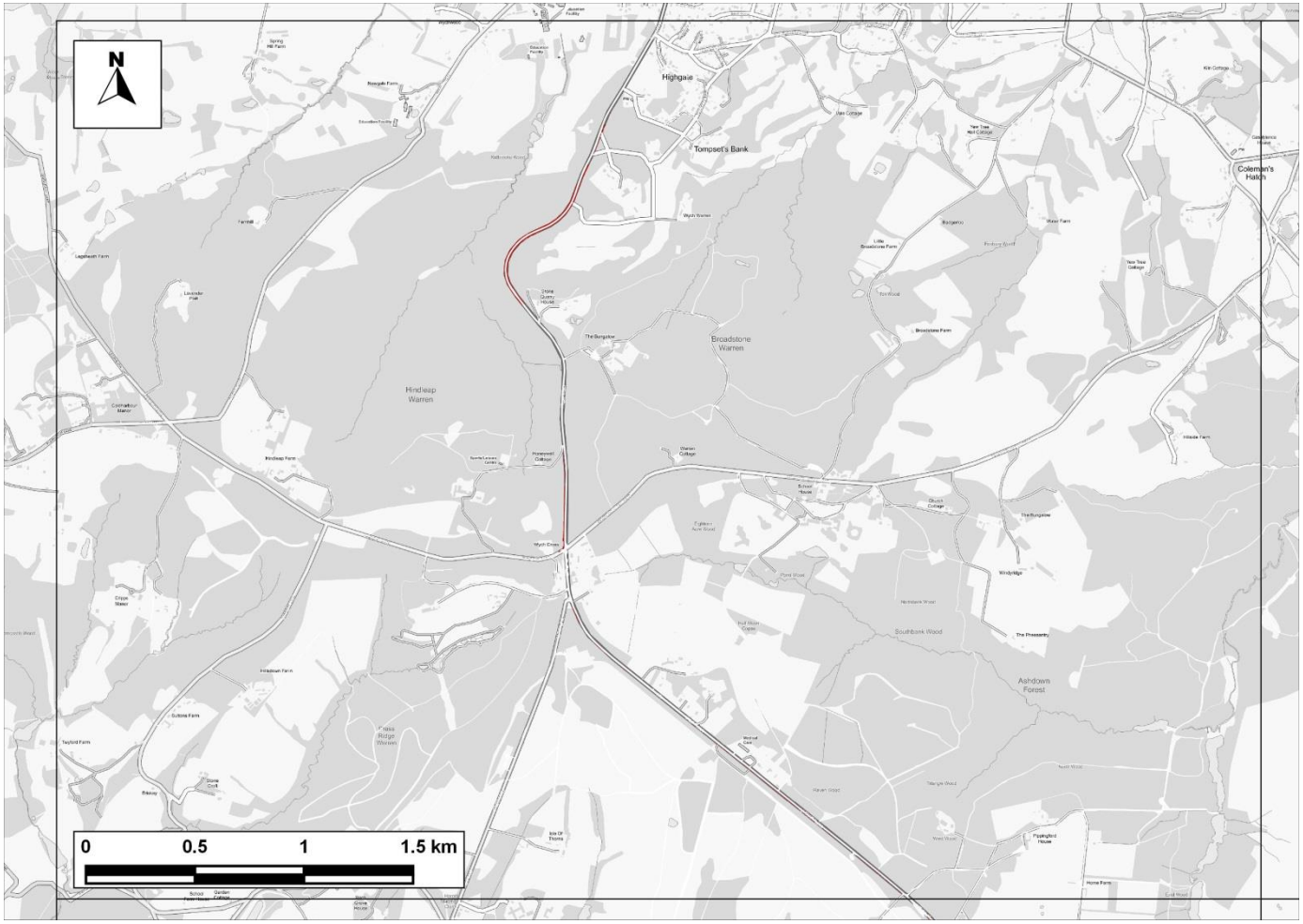


Figure A10.45: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A10.46: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northeast Section

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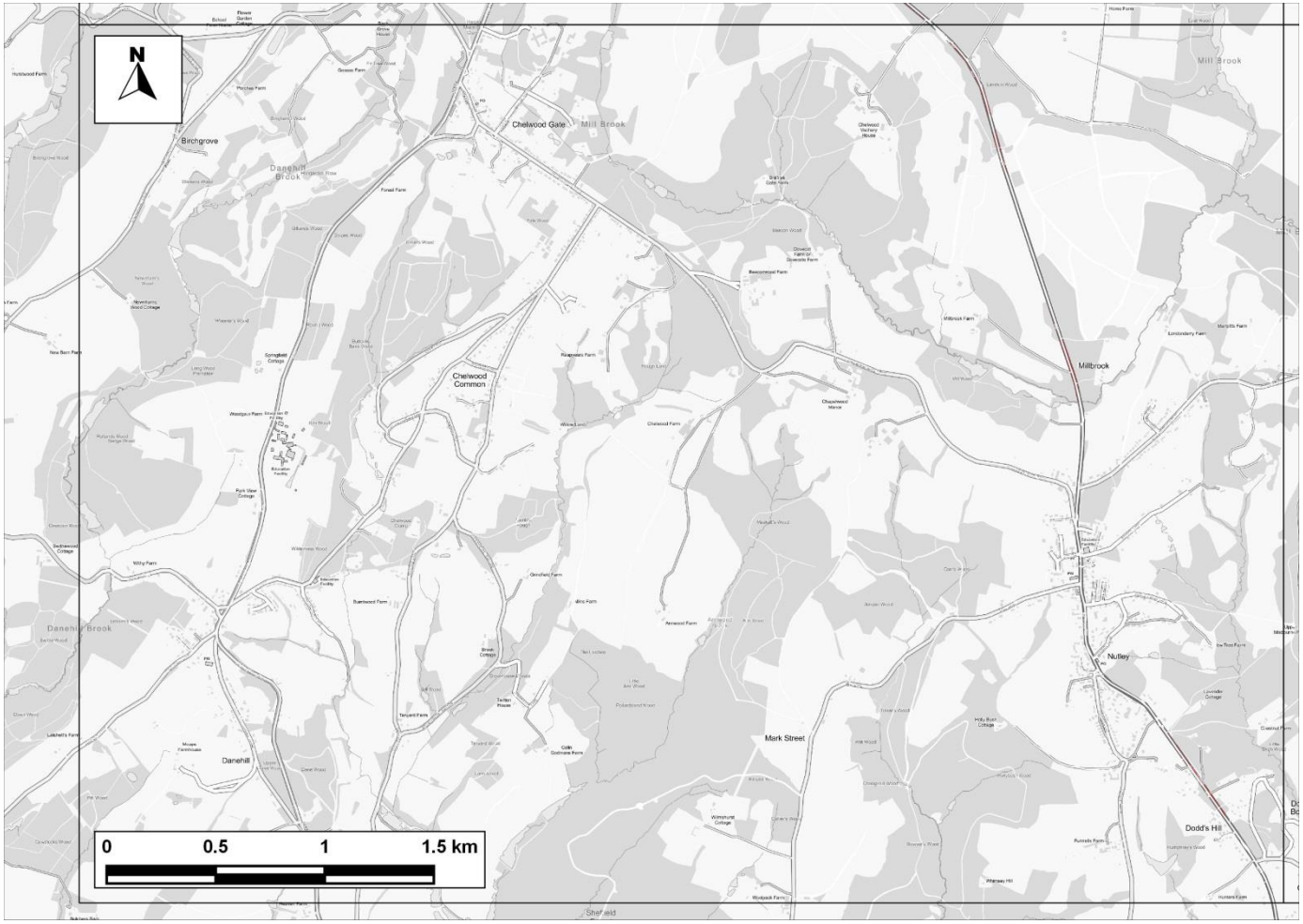


Figure A10.47: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A10.48: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southeast Section

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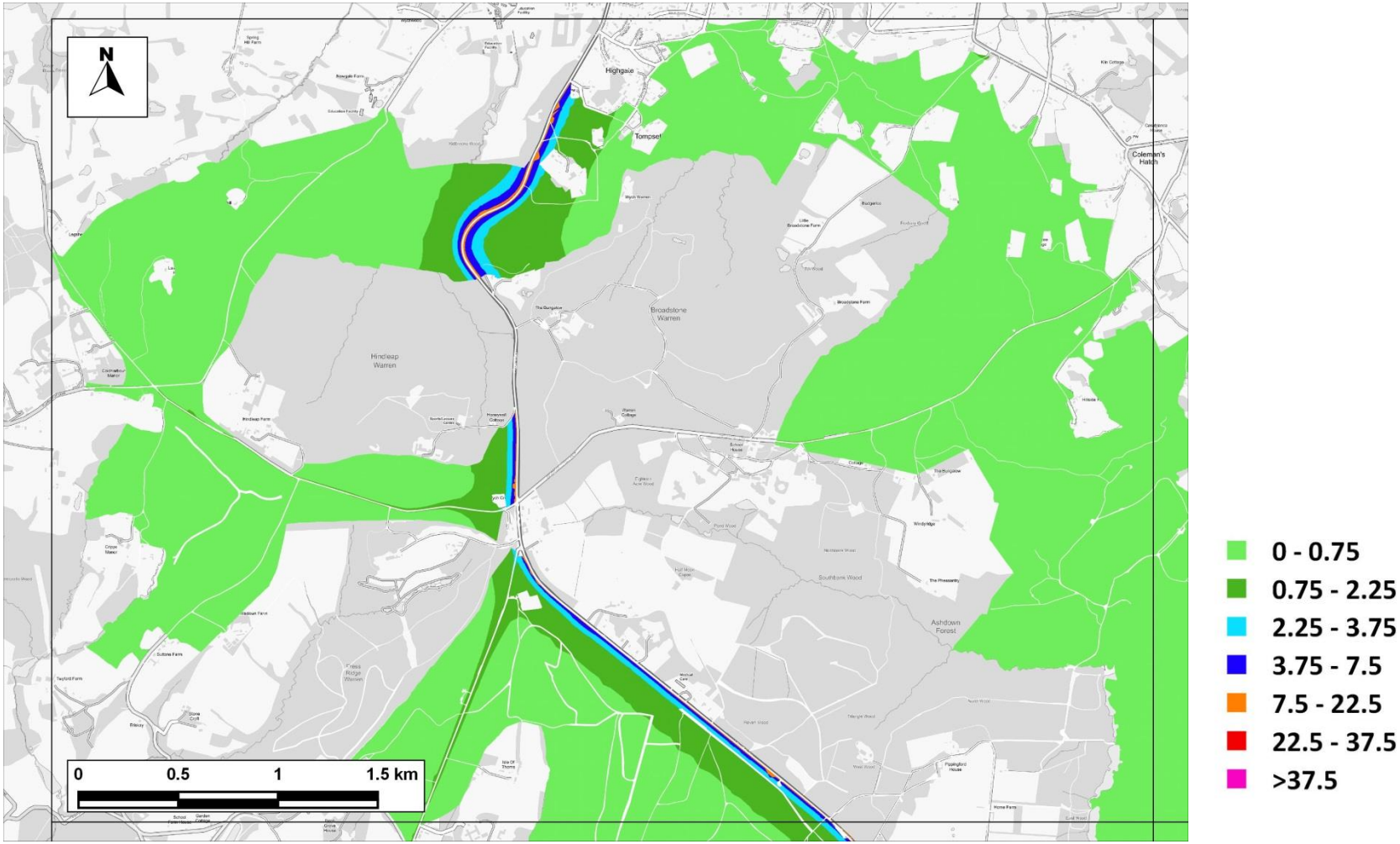


Figure A10.49: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario B (µg/m^3) – Northwest Section

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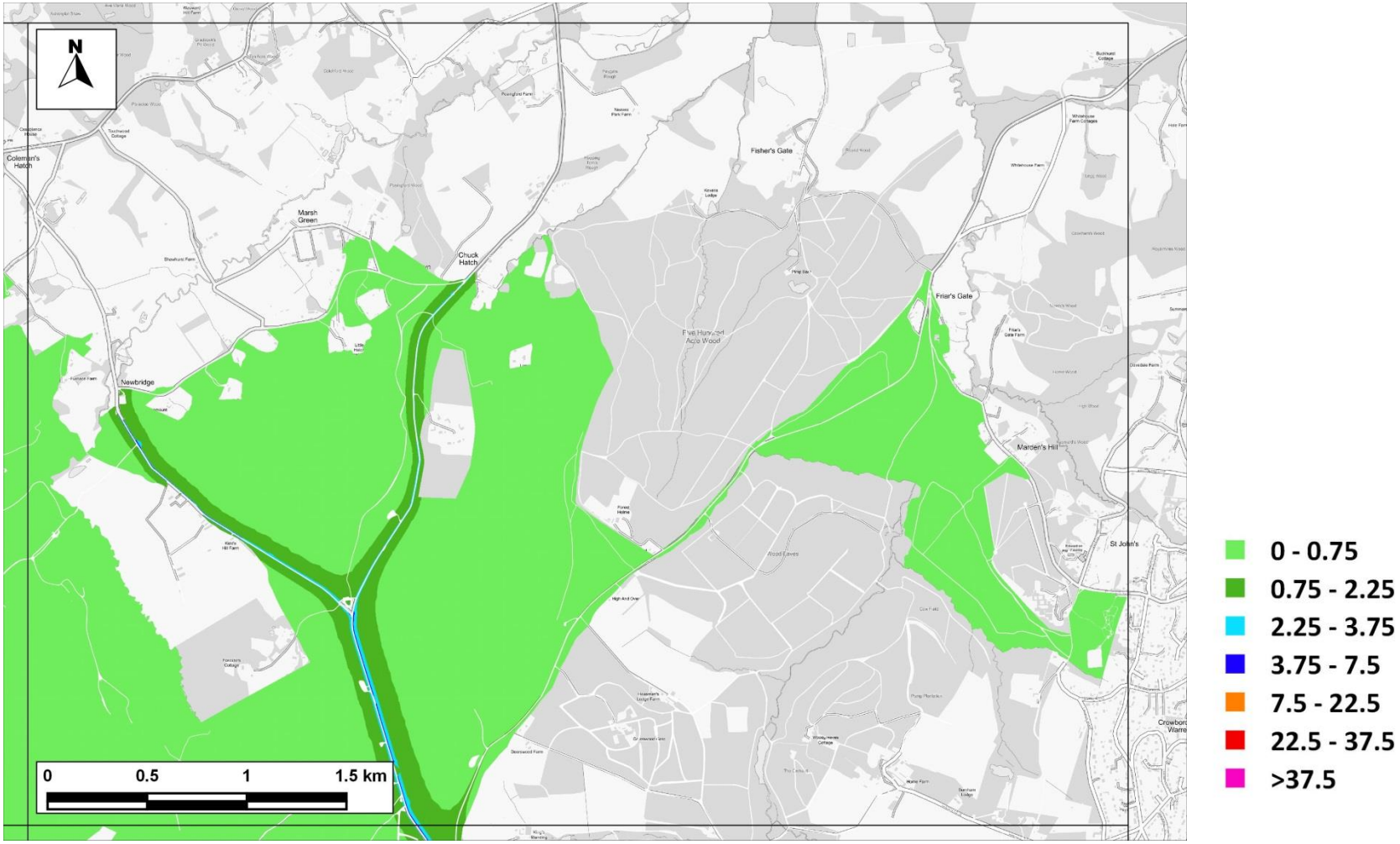


Figure A10.50: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario B (µg/m^3) – Northeast Section

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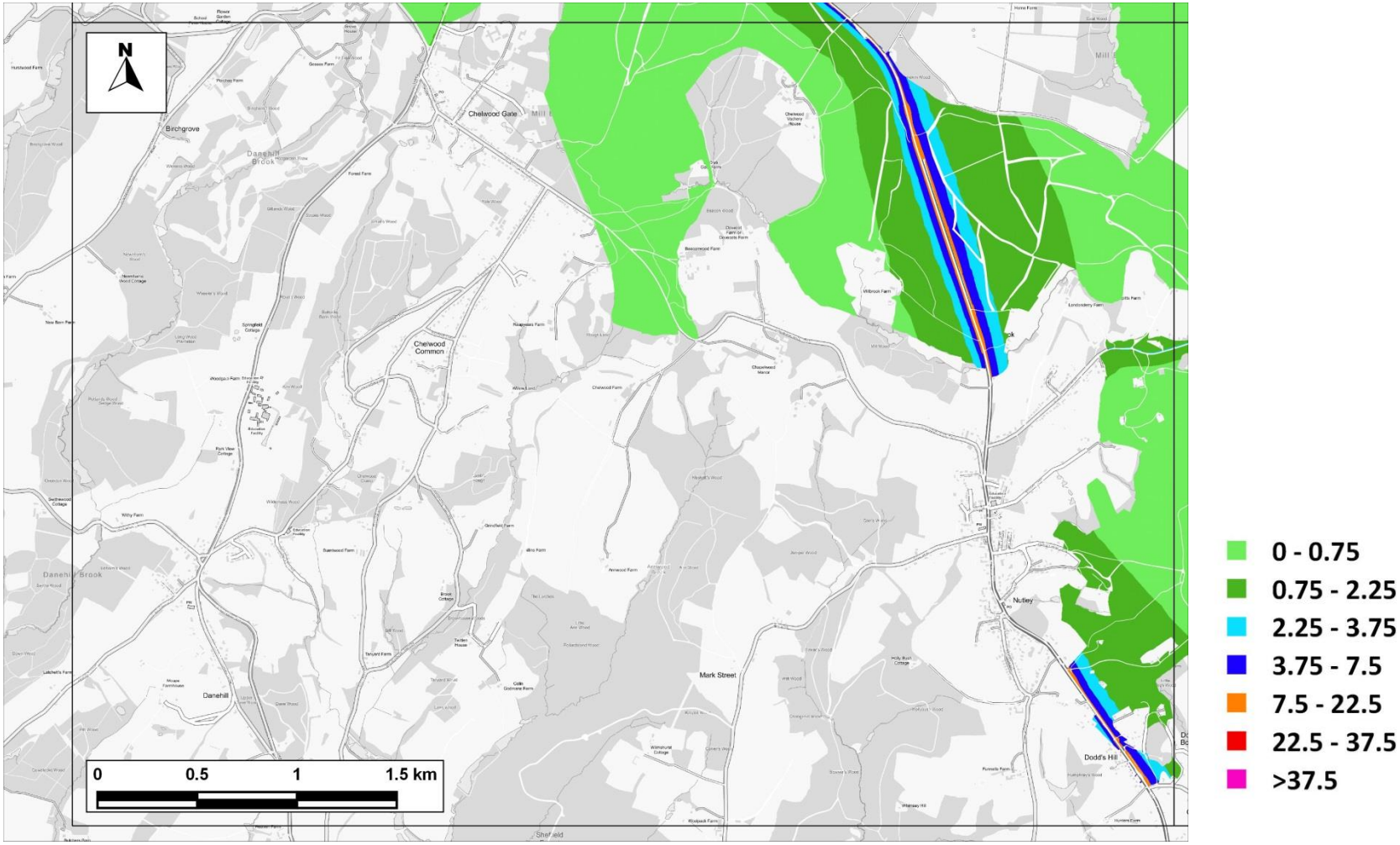


Figure A10.51: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario B (µg/m^3) – Southwest Section

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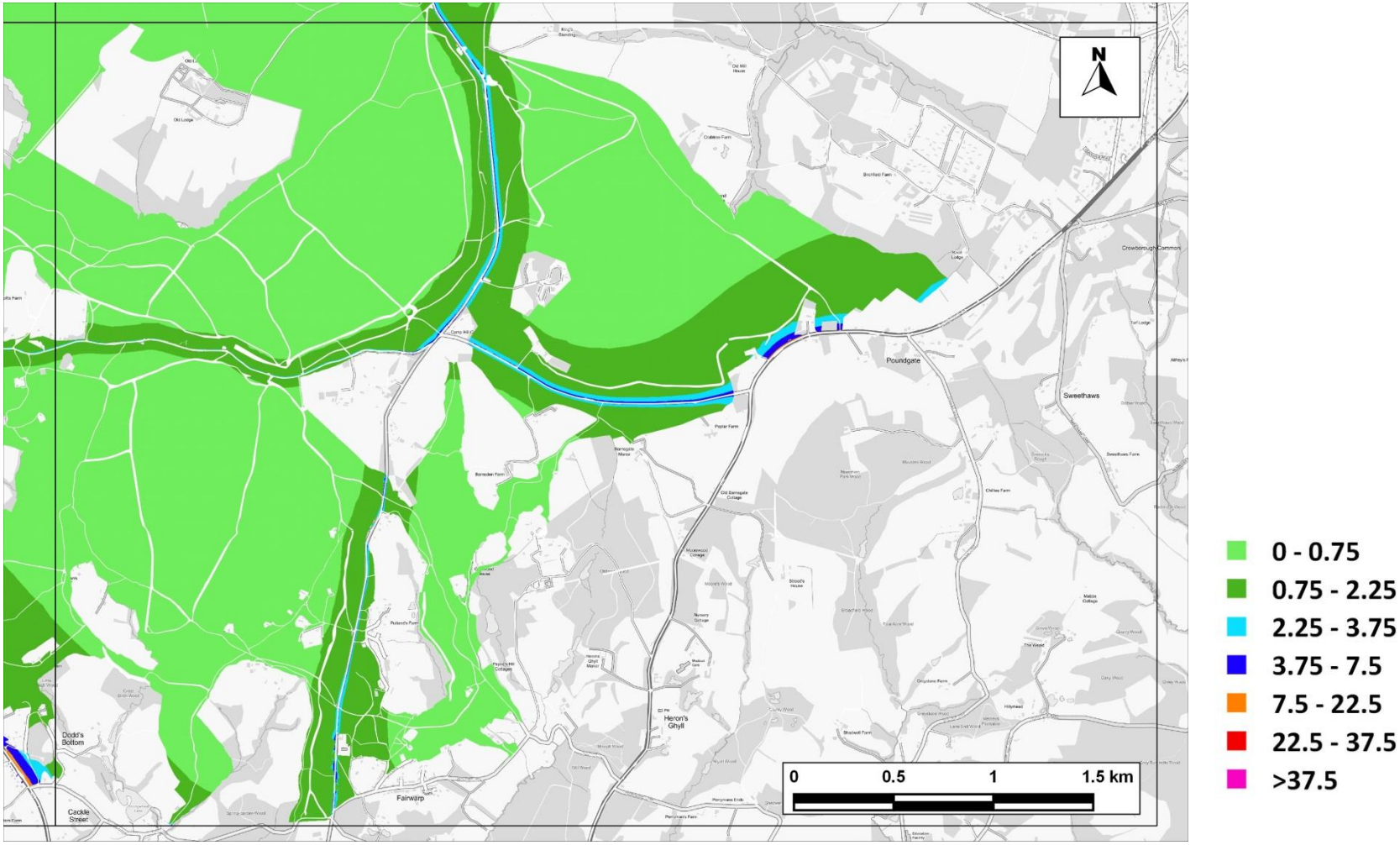


Figure A10.52: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario B (µg/m^3) – Southeast Section

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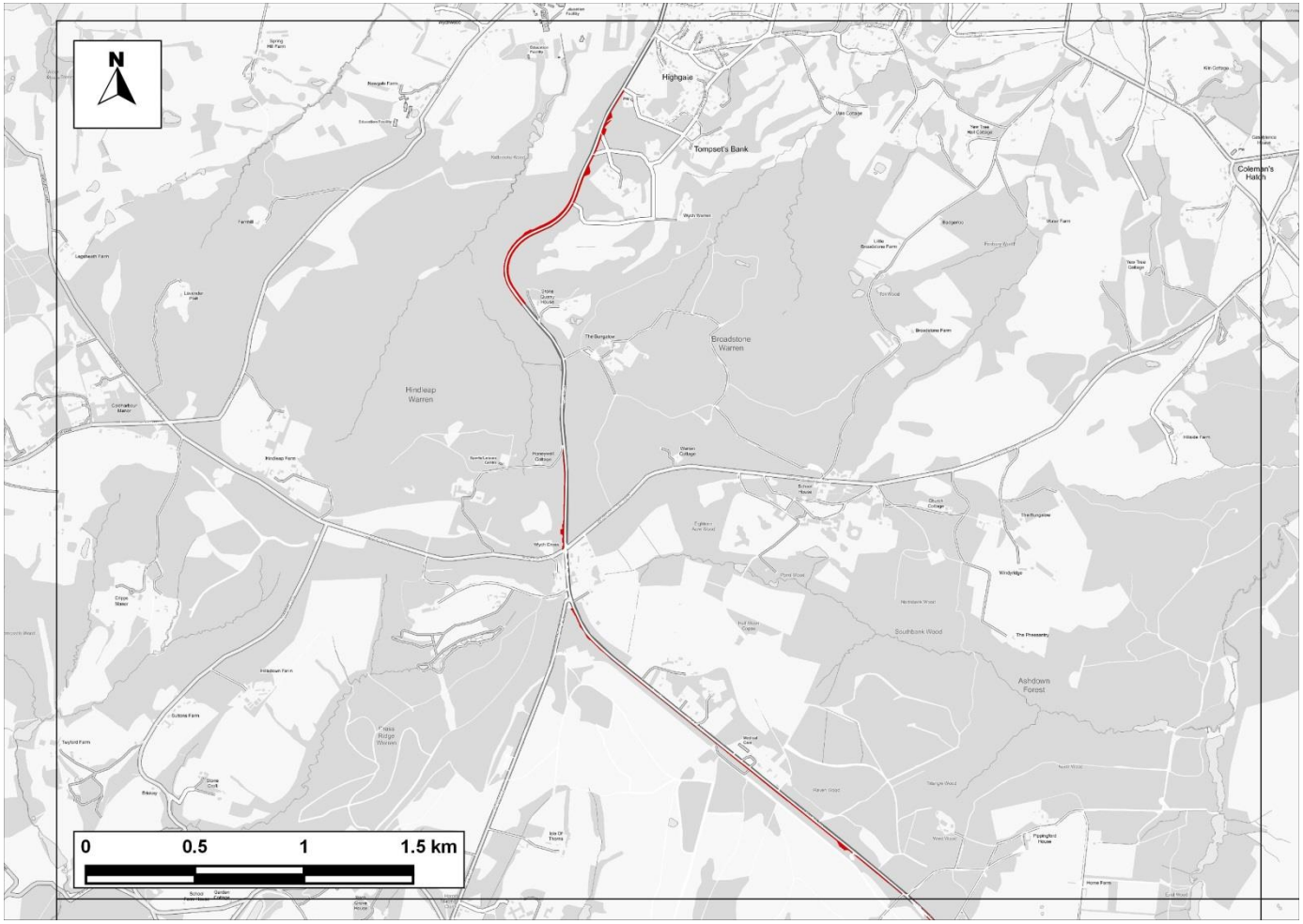


Figure A10.53: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A10.54: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northeast Section

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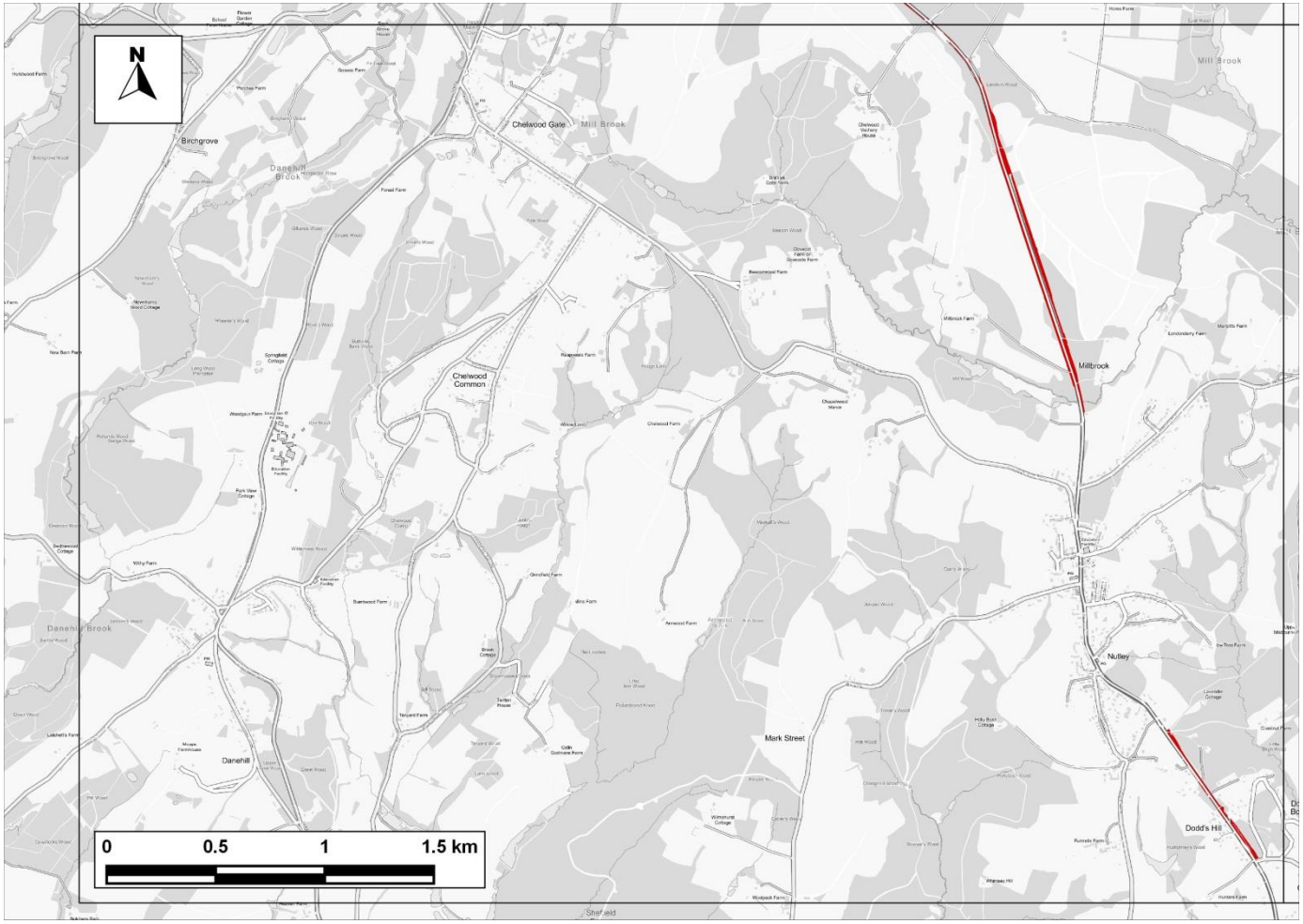


Figure A10.55: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A10.56: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southeast Section

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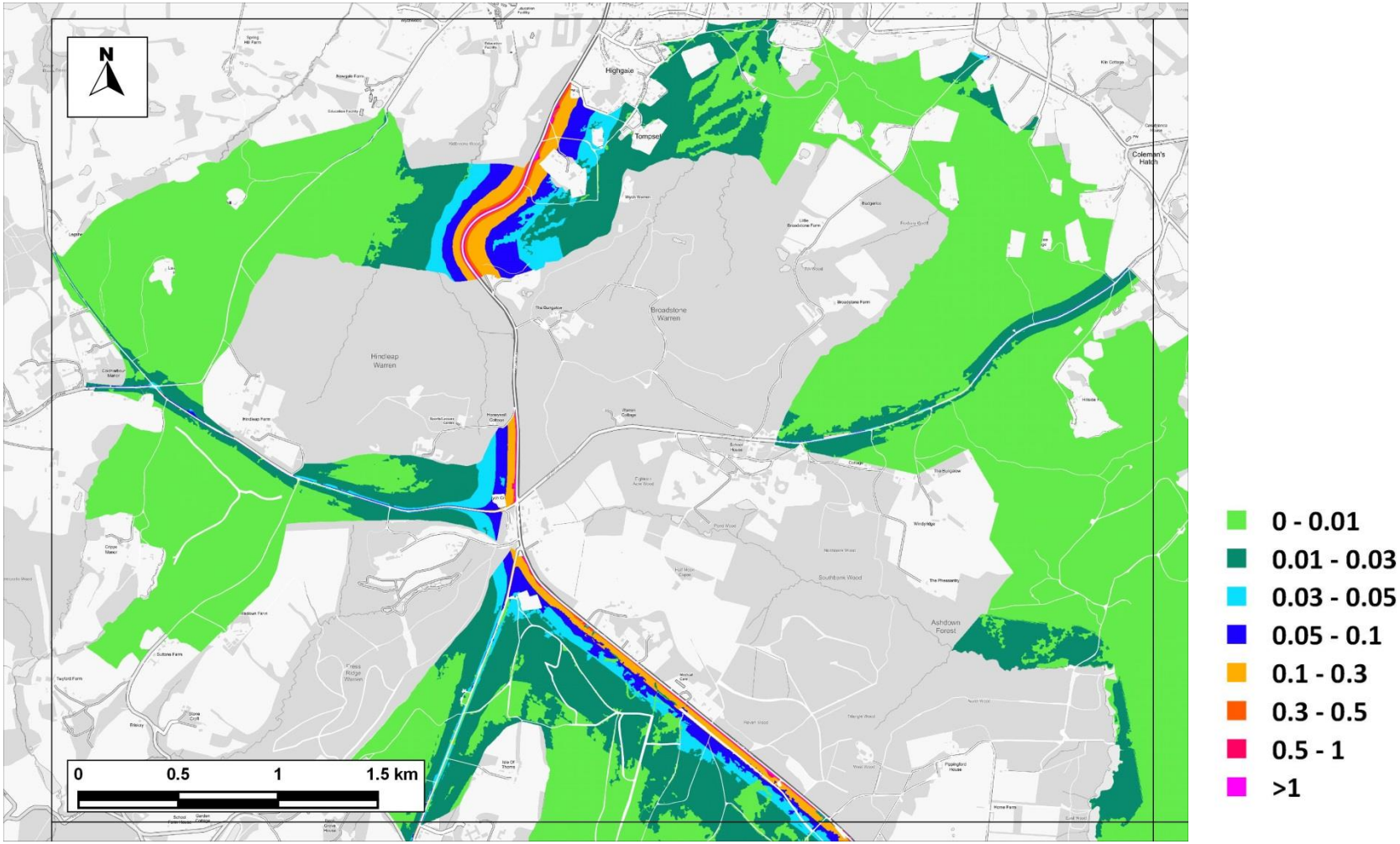


Figure A10.57: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northwest Section

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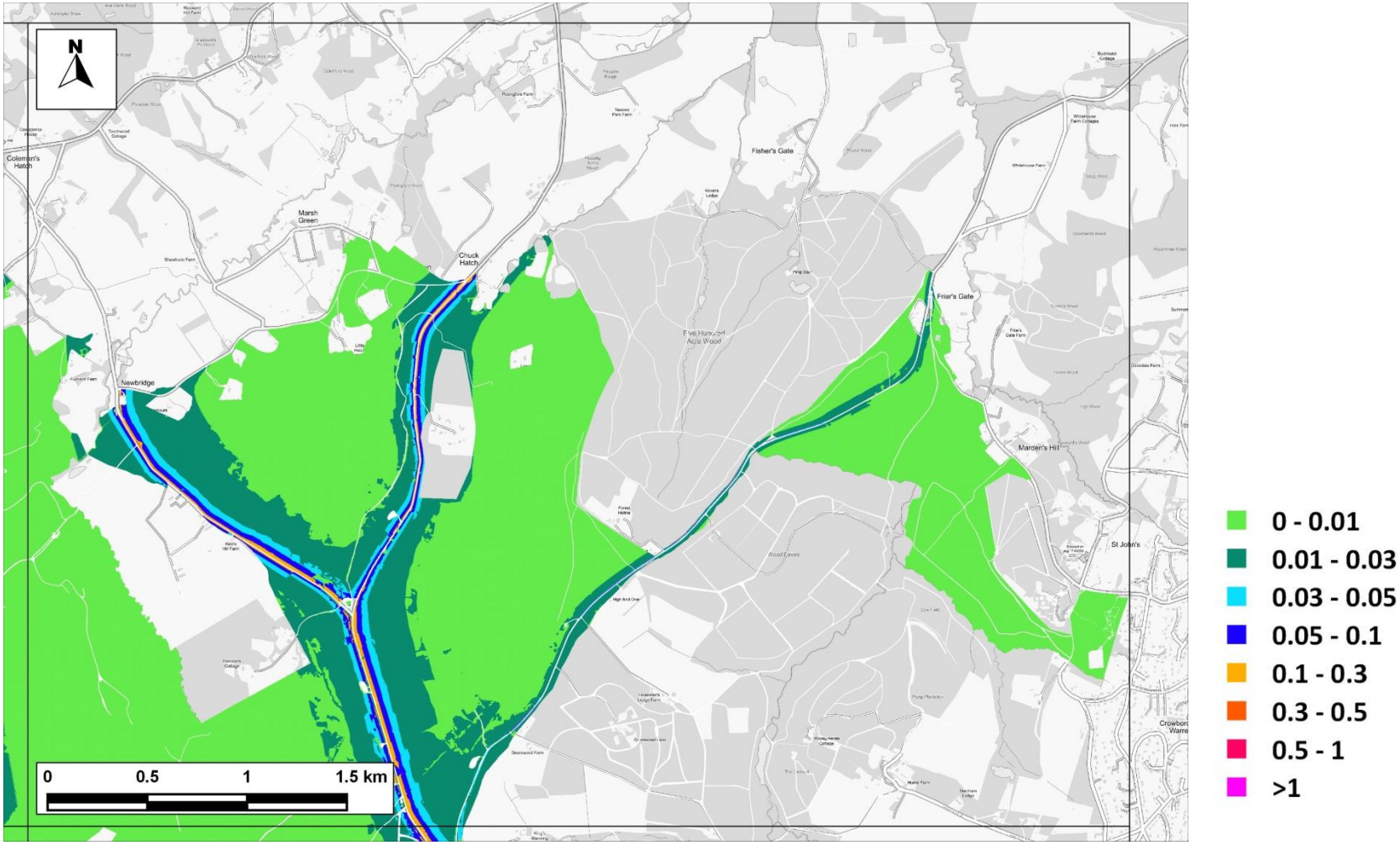


Figure A10.58: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northeast Section

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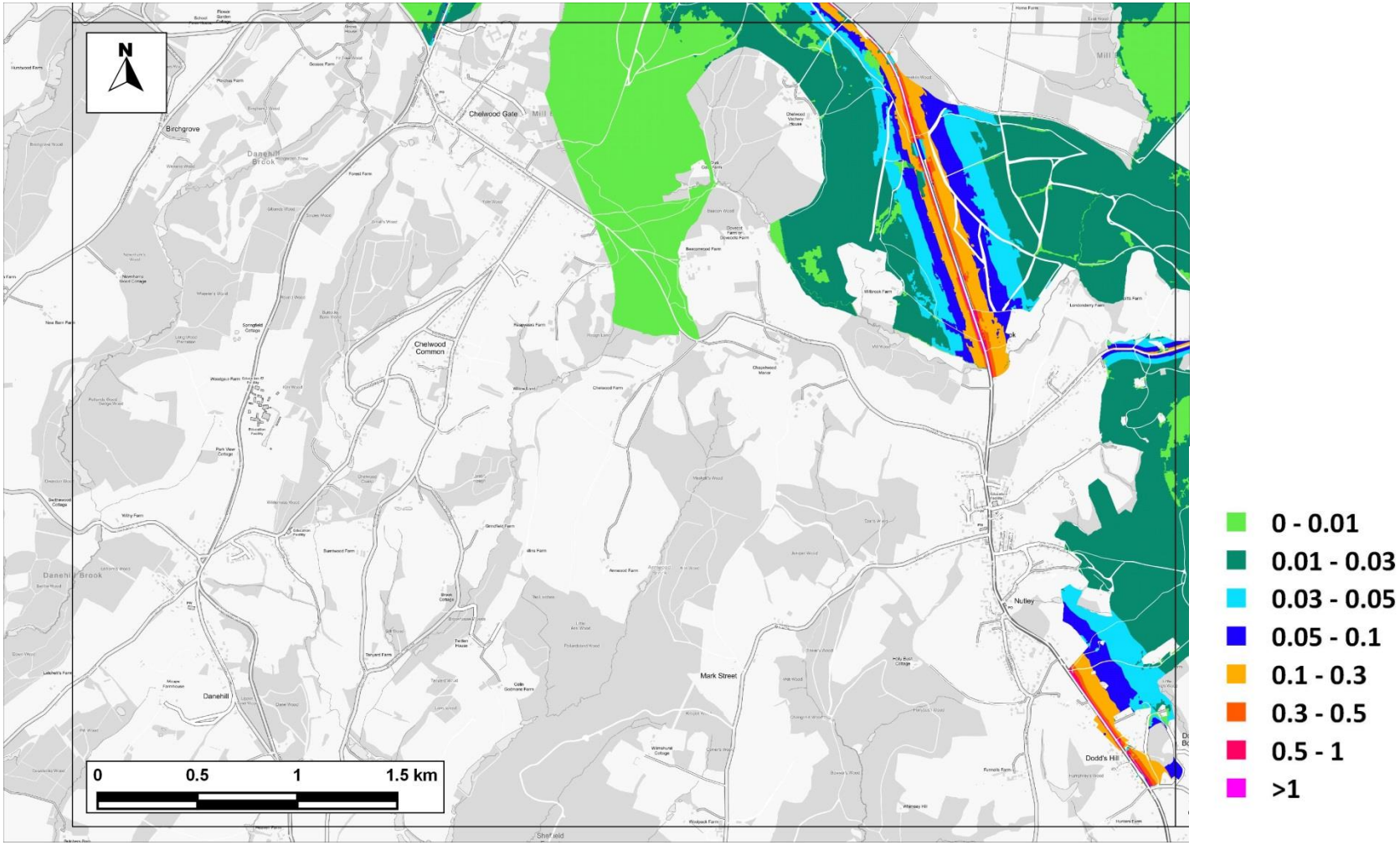


Figure A10.59: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southwest Section

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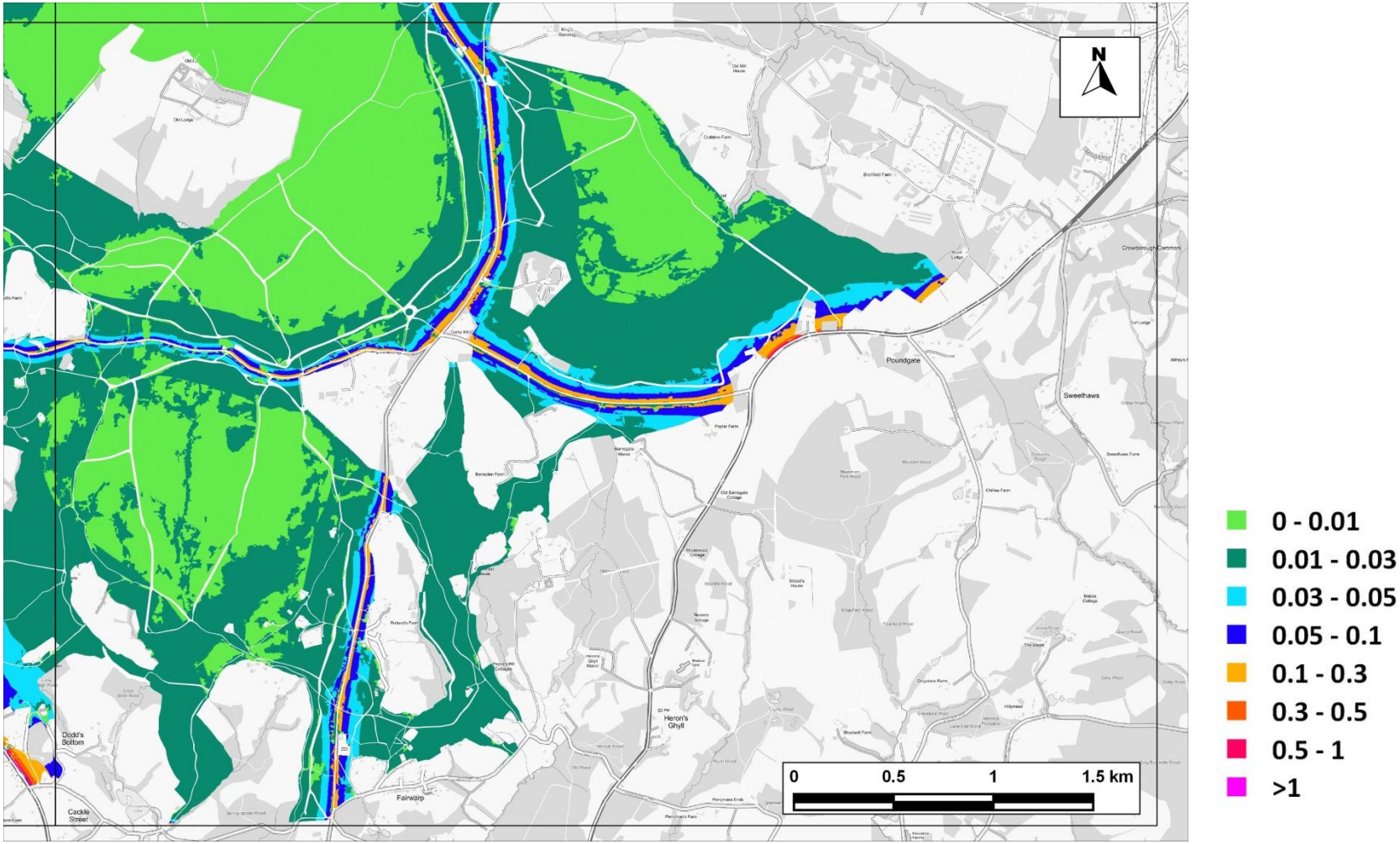


Figure A10.60: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southeast Section

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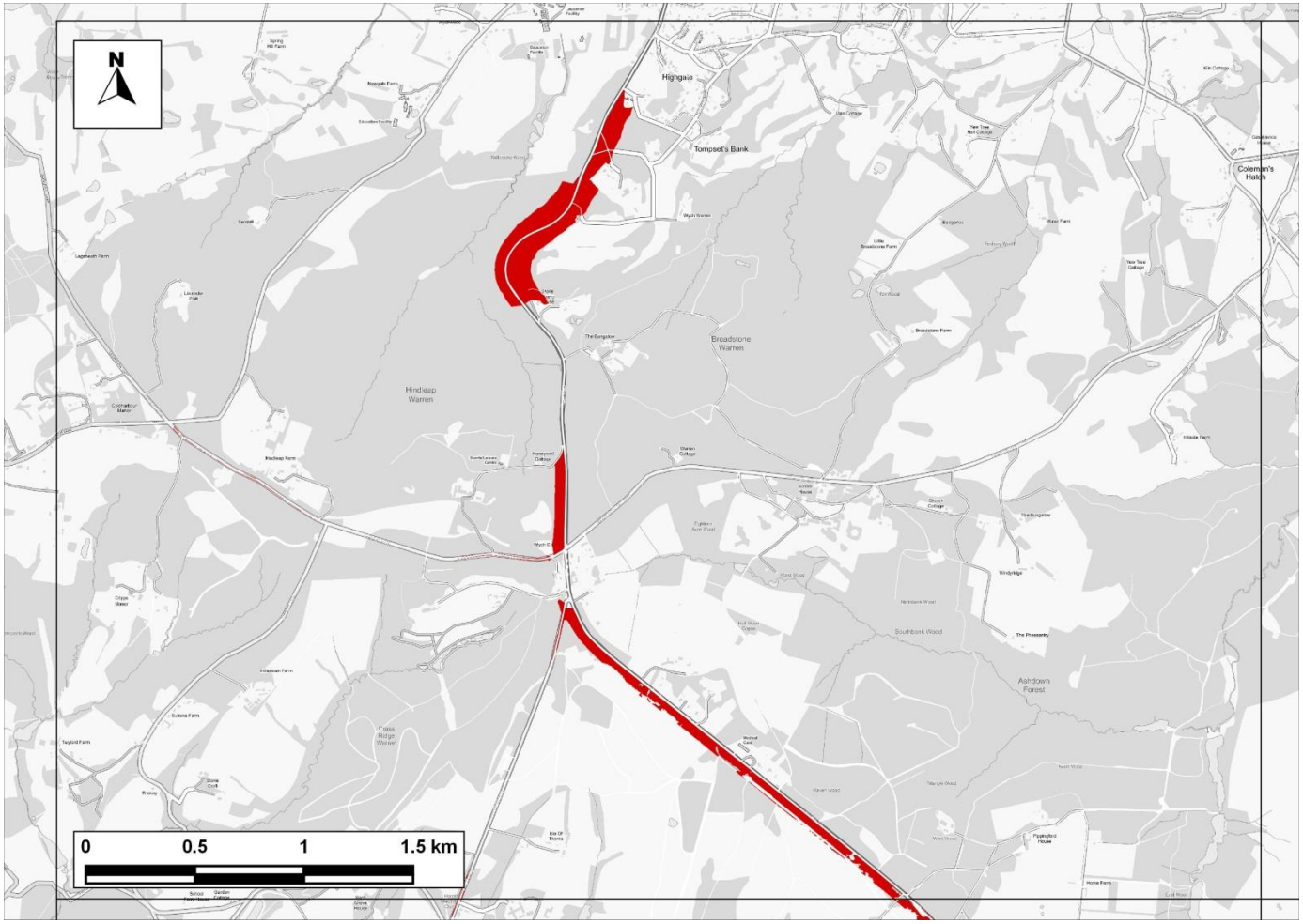


Figure A10.61: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Northwest Section

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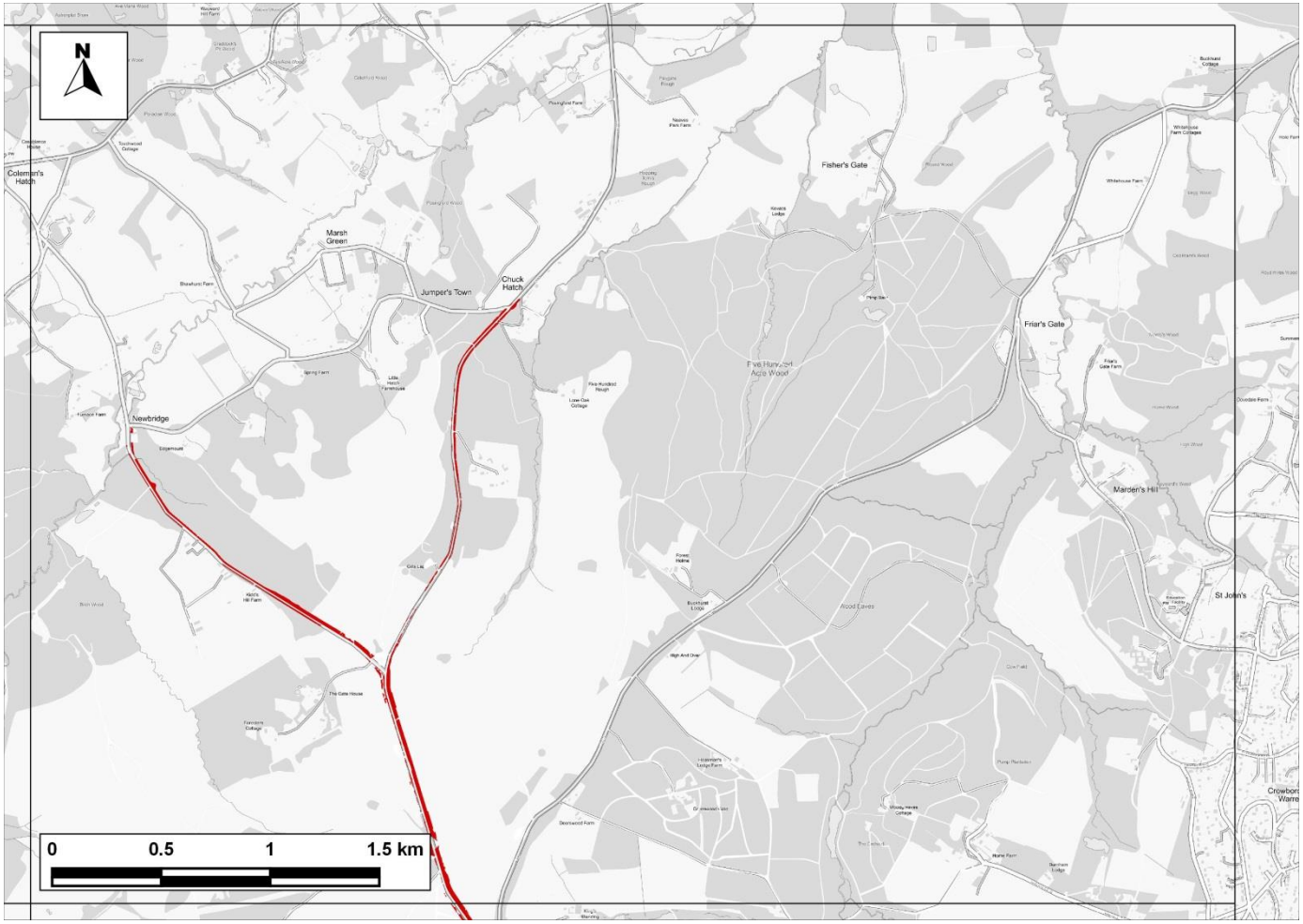


Figure A10.62: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Northeast Section

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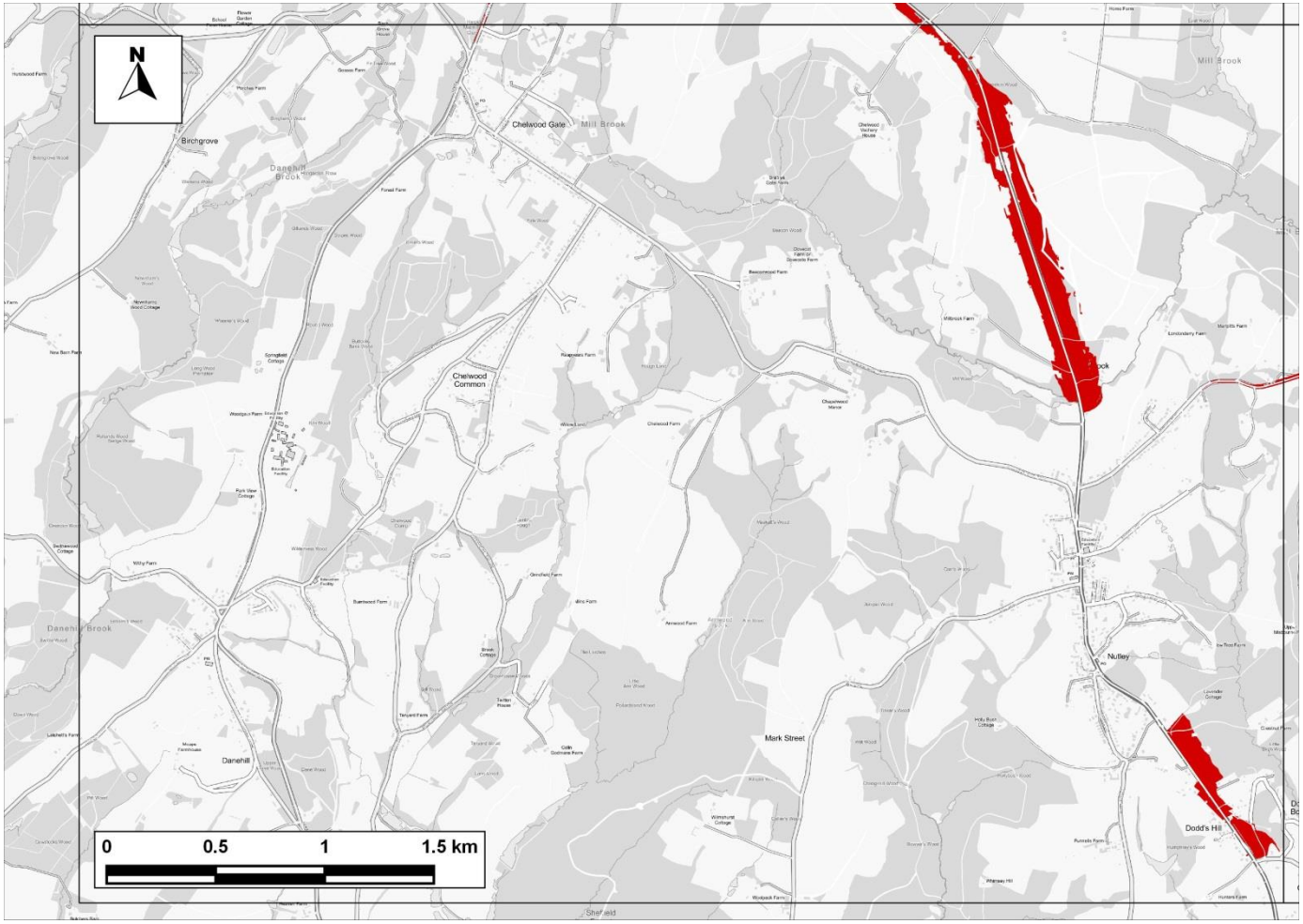


Figure A10.63: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Southwest Section

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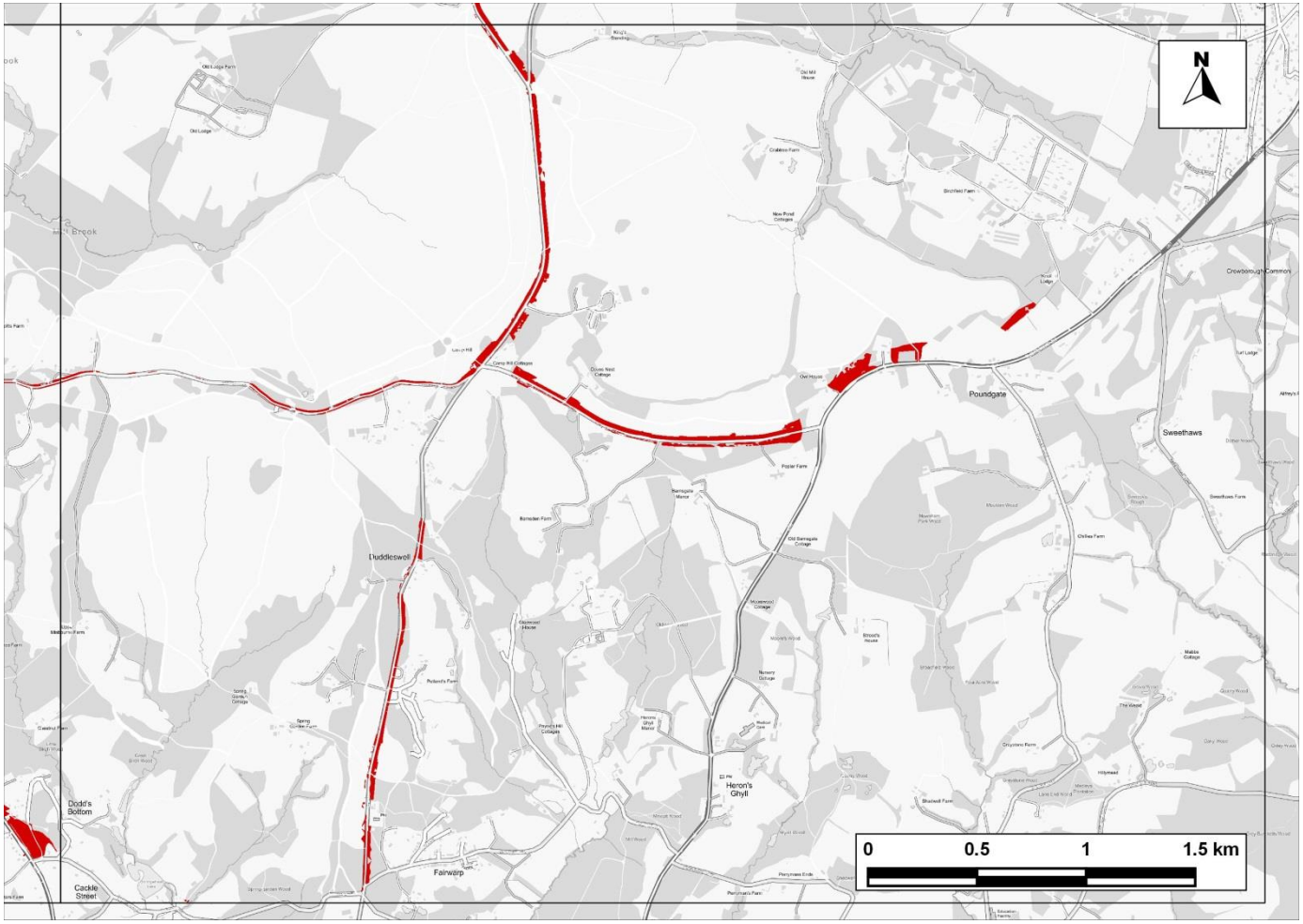


Figure A10.64 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Southeast Section

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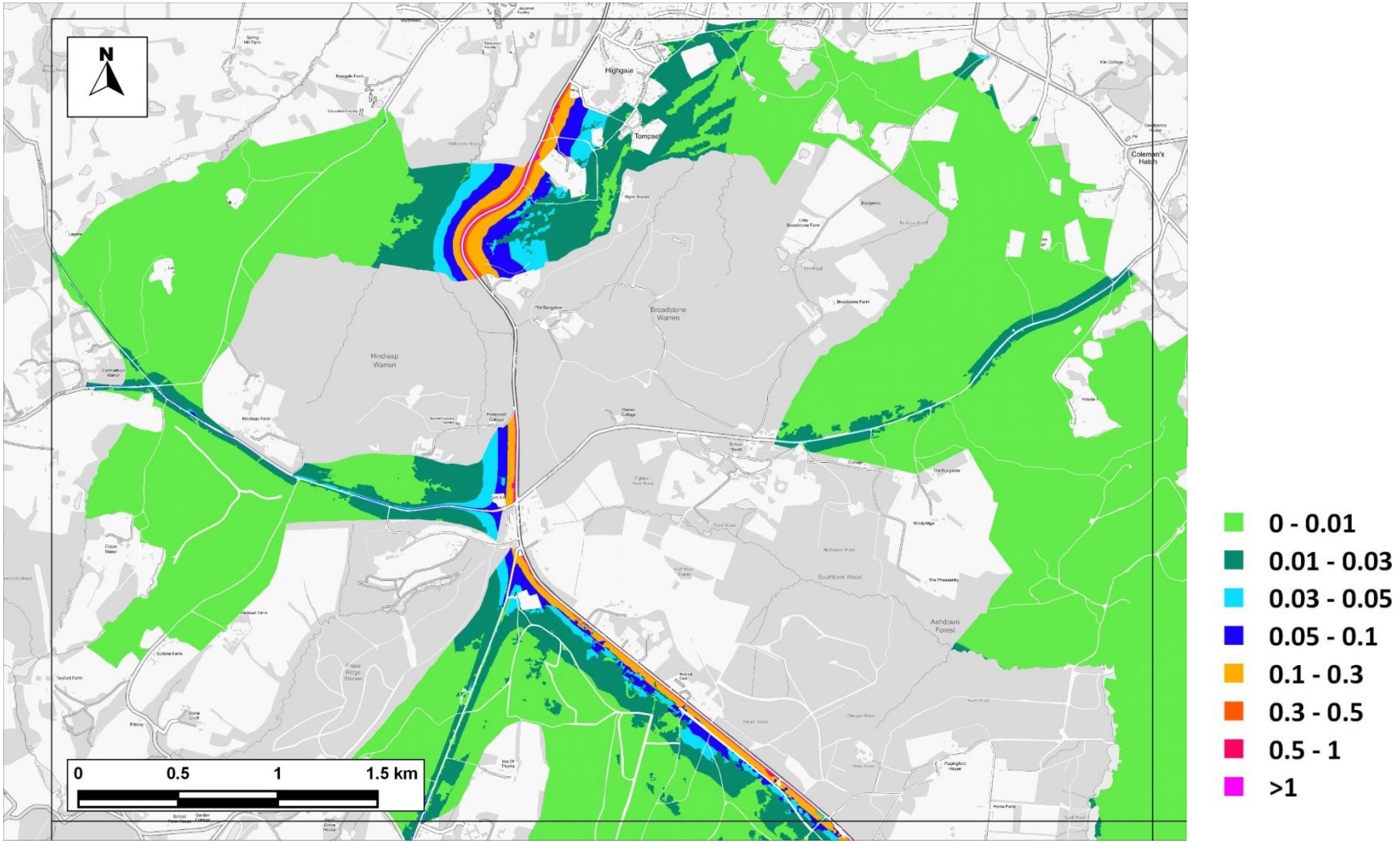


Figure A10.65: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northwest Section

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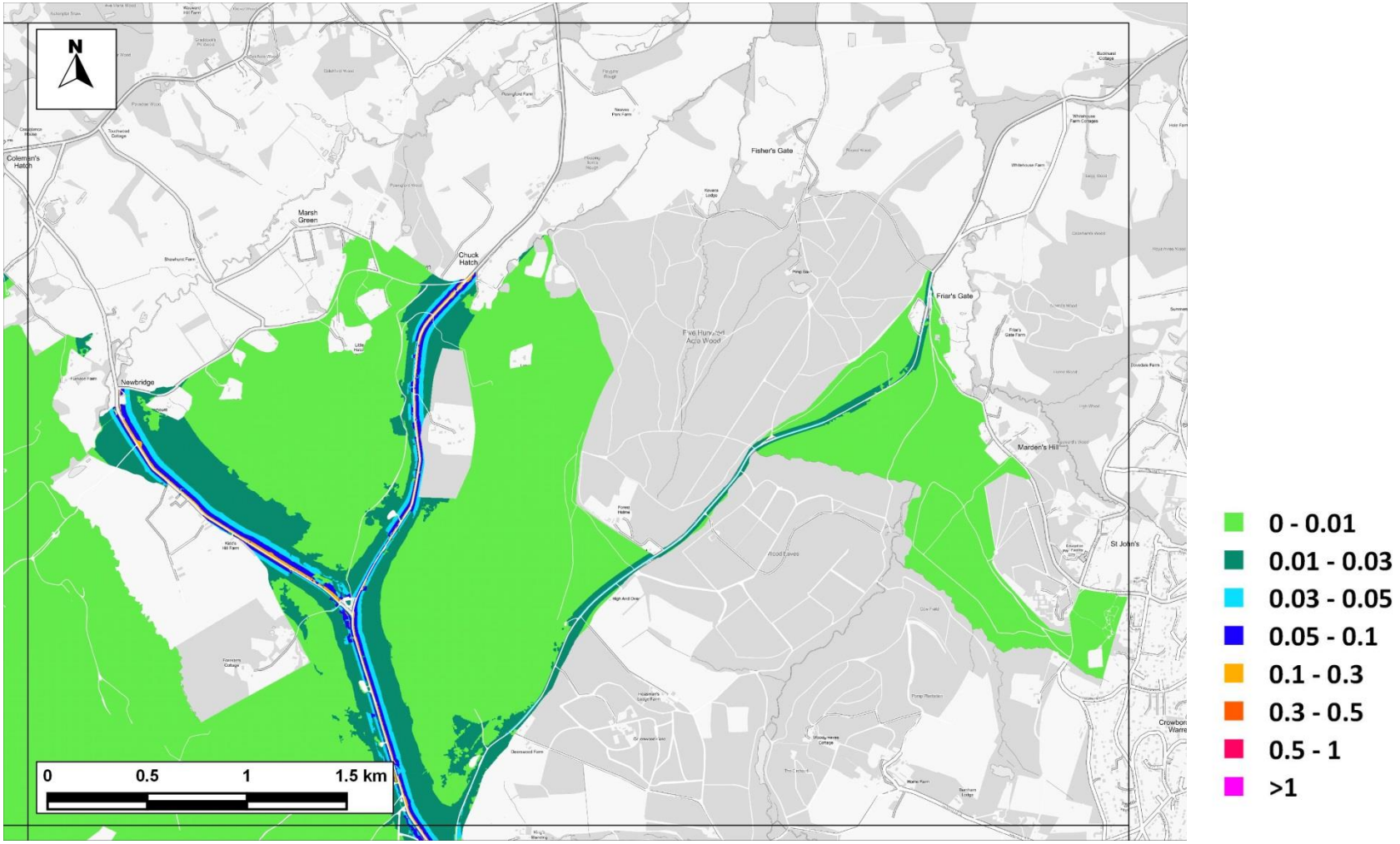


Figure A10.66: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northeast Section

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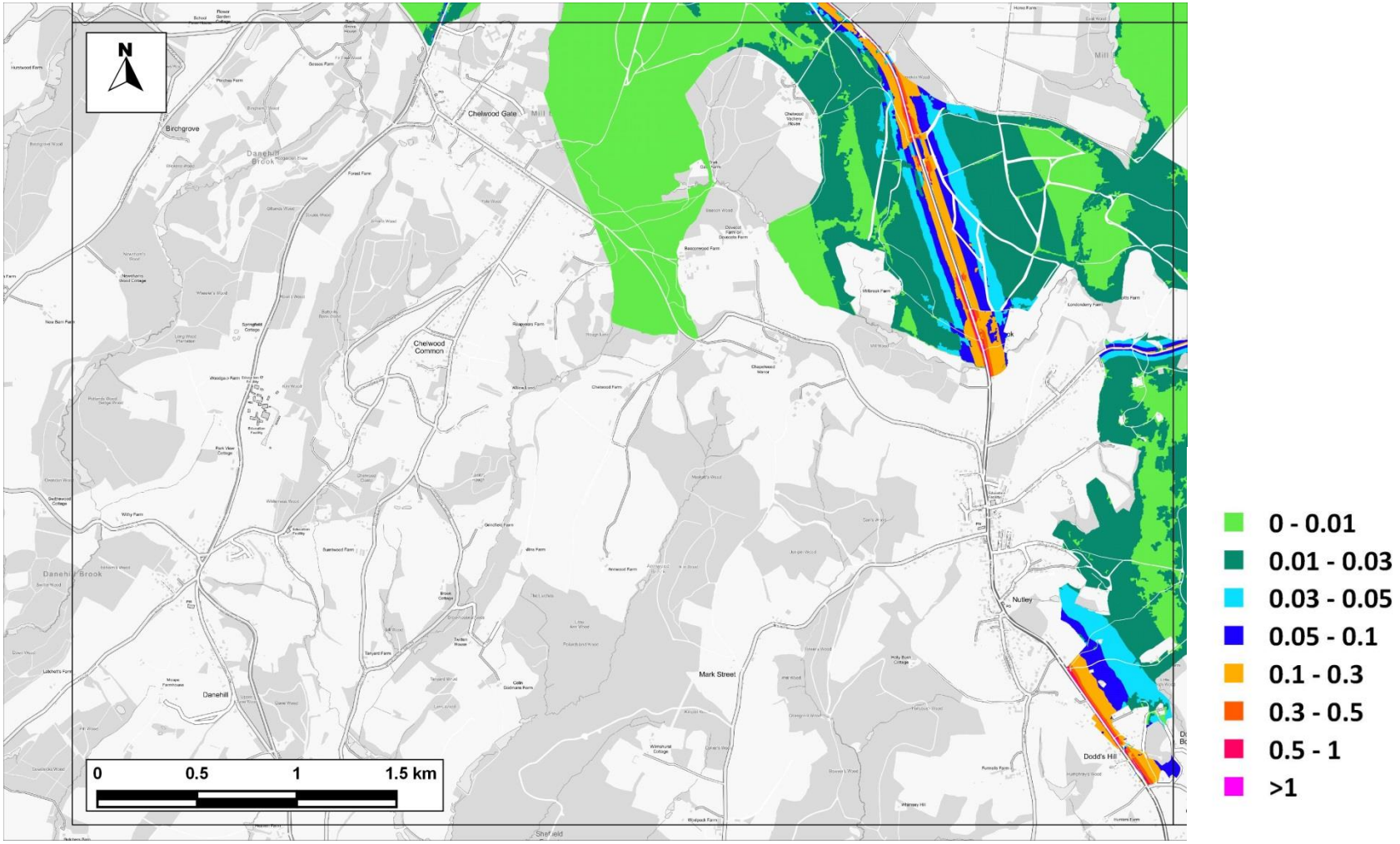


Figure A10.67: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southwest Section

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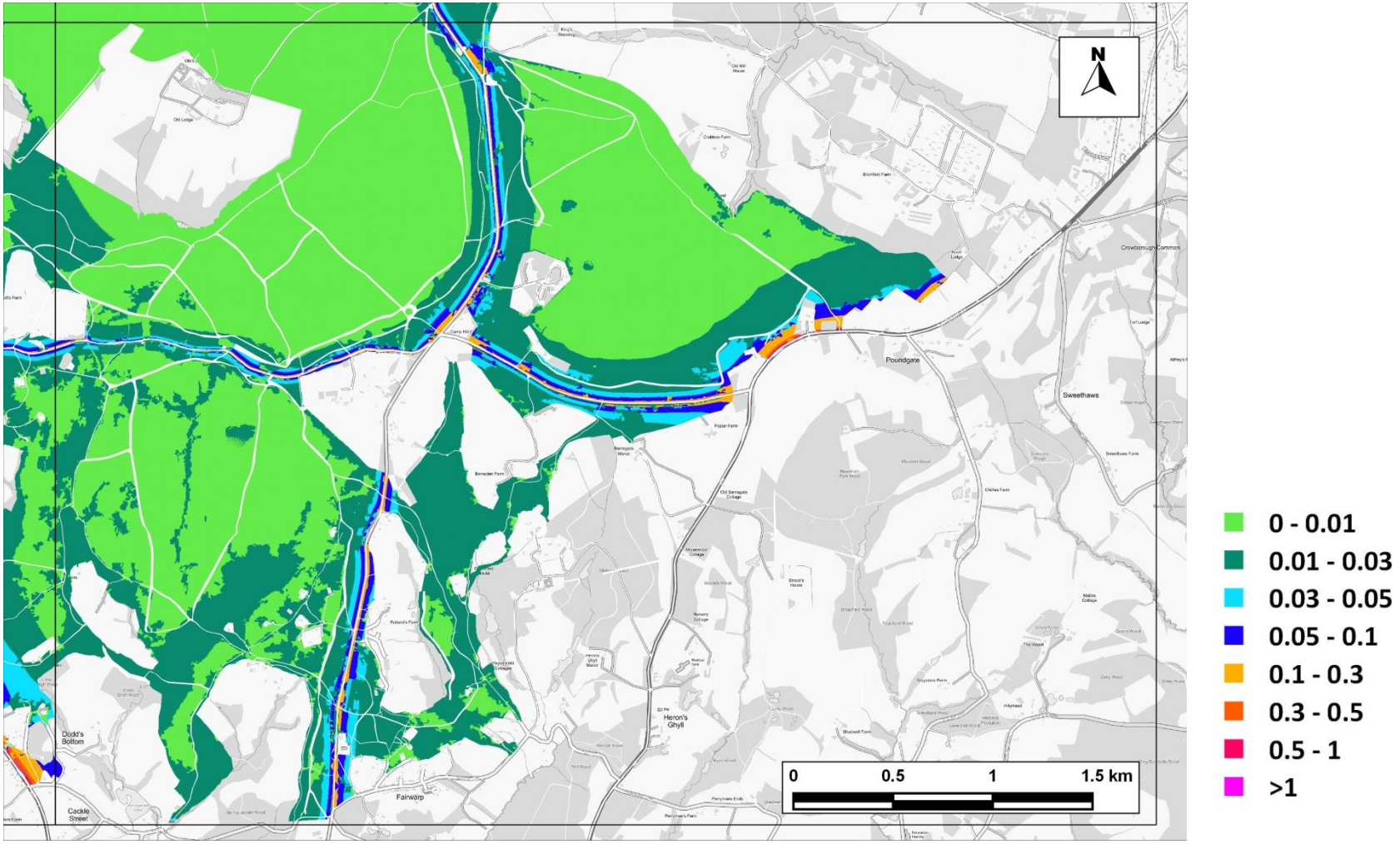


Figure A10.68: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southeast Section

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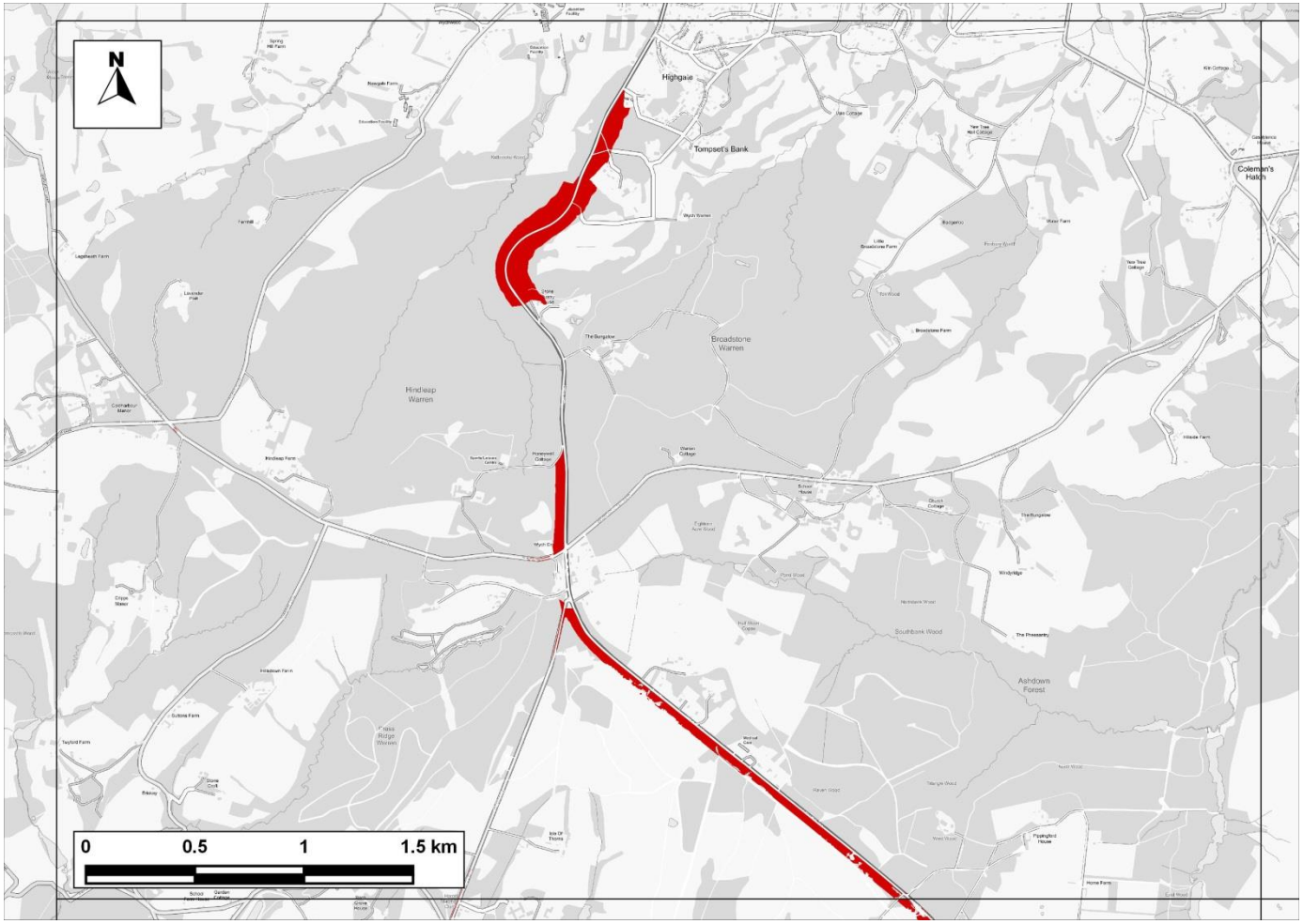


Figure A10.69: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Northwest Section

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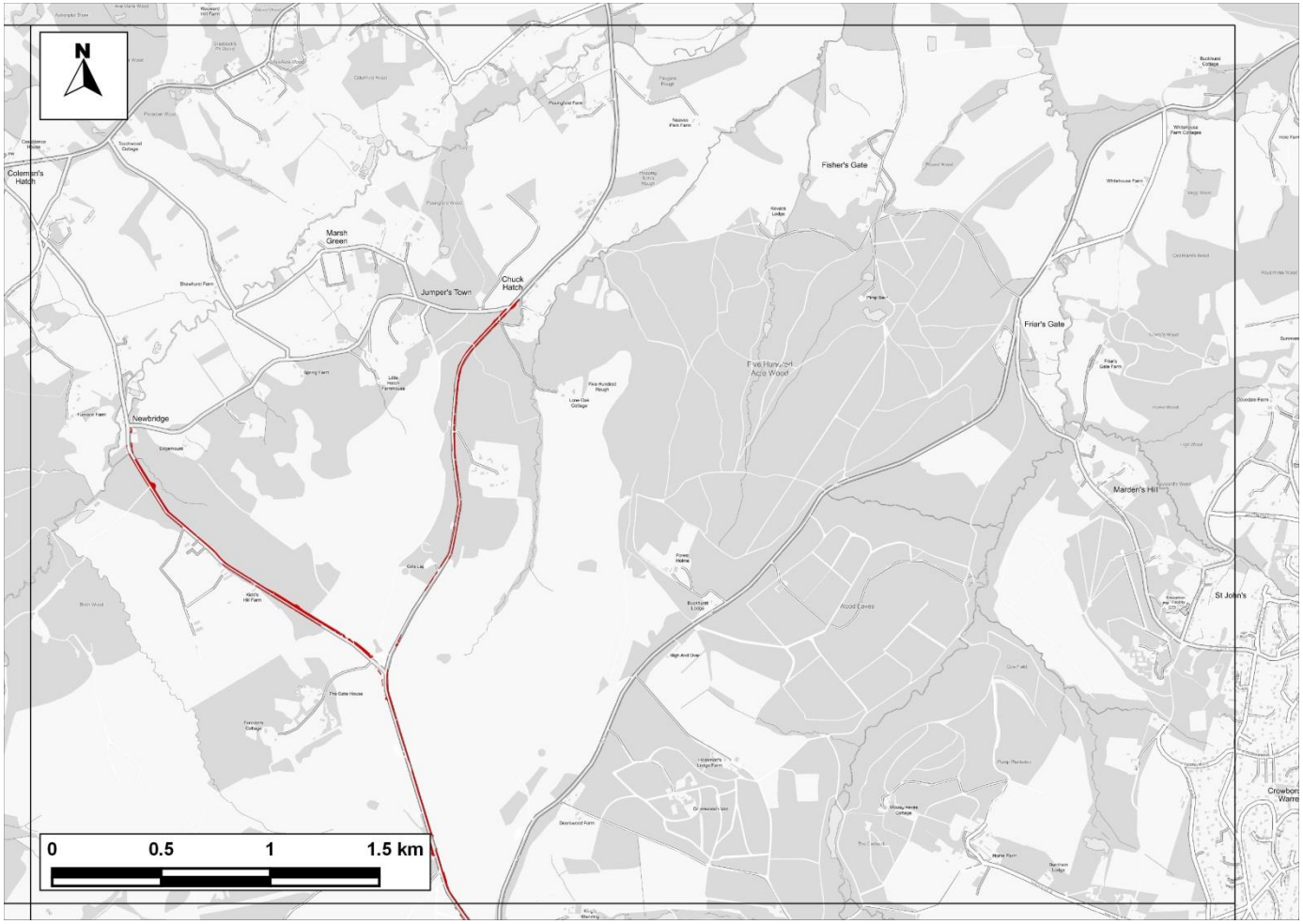


Figure A10.70: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Northeast Section

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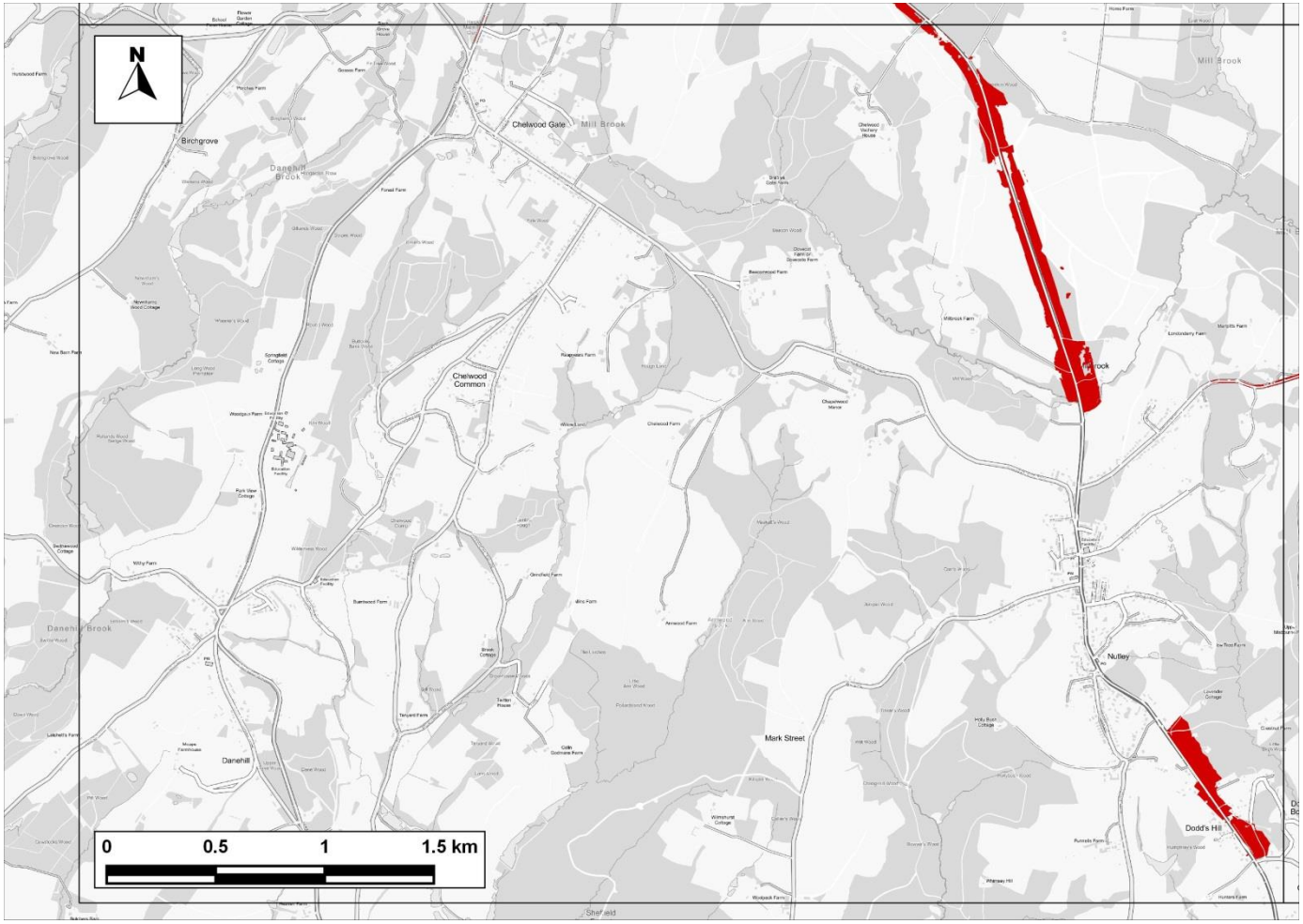


Figure A10.71: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Southwest Section

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Figure A10.72 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Southeast Section

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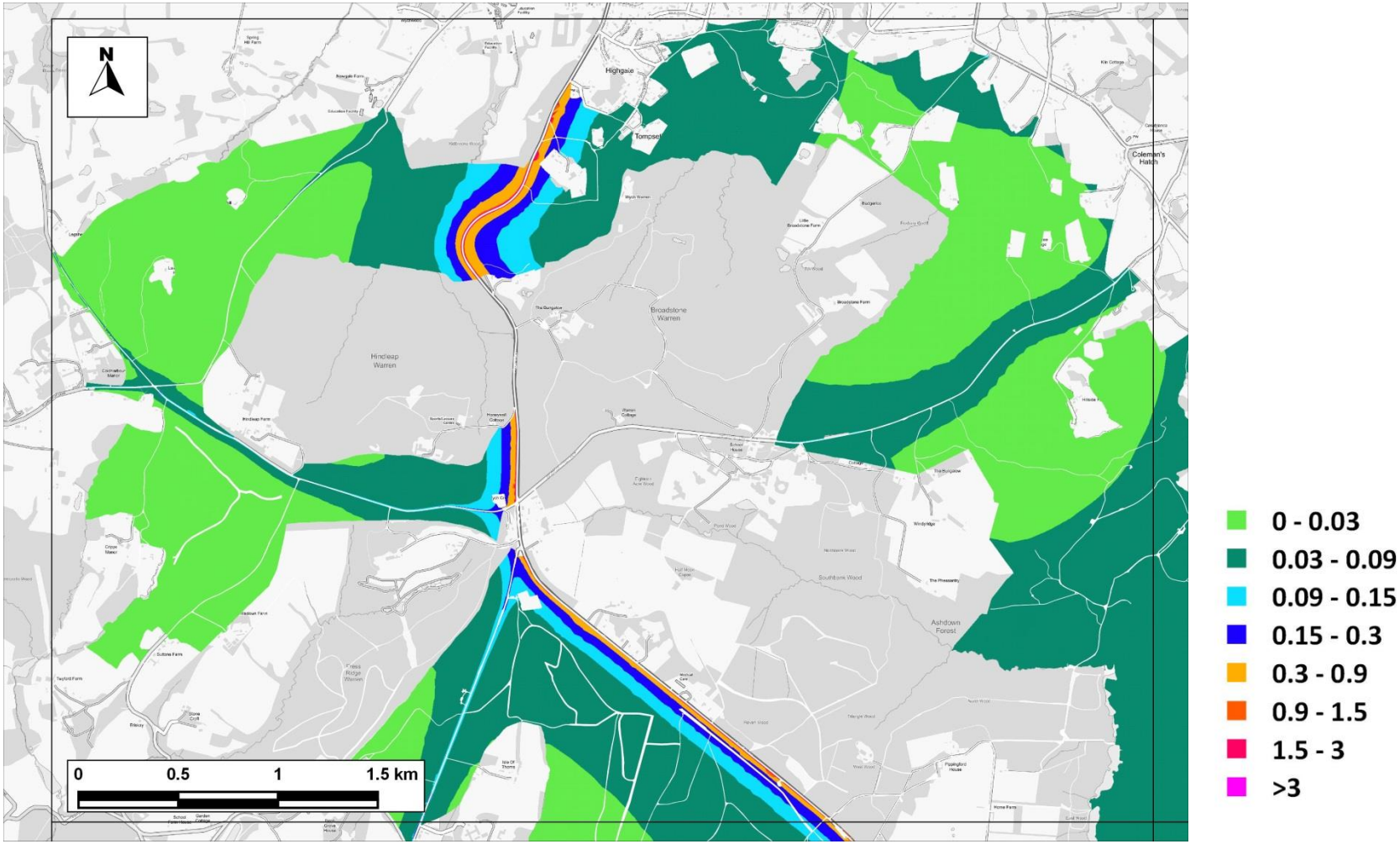


Figure A10.73: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario C (µg/m^3) – Northwest Section

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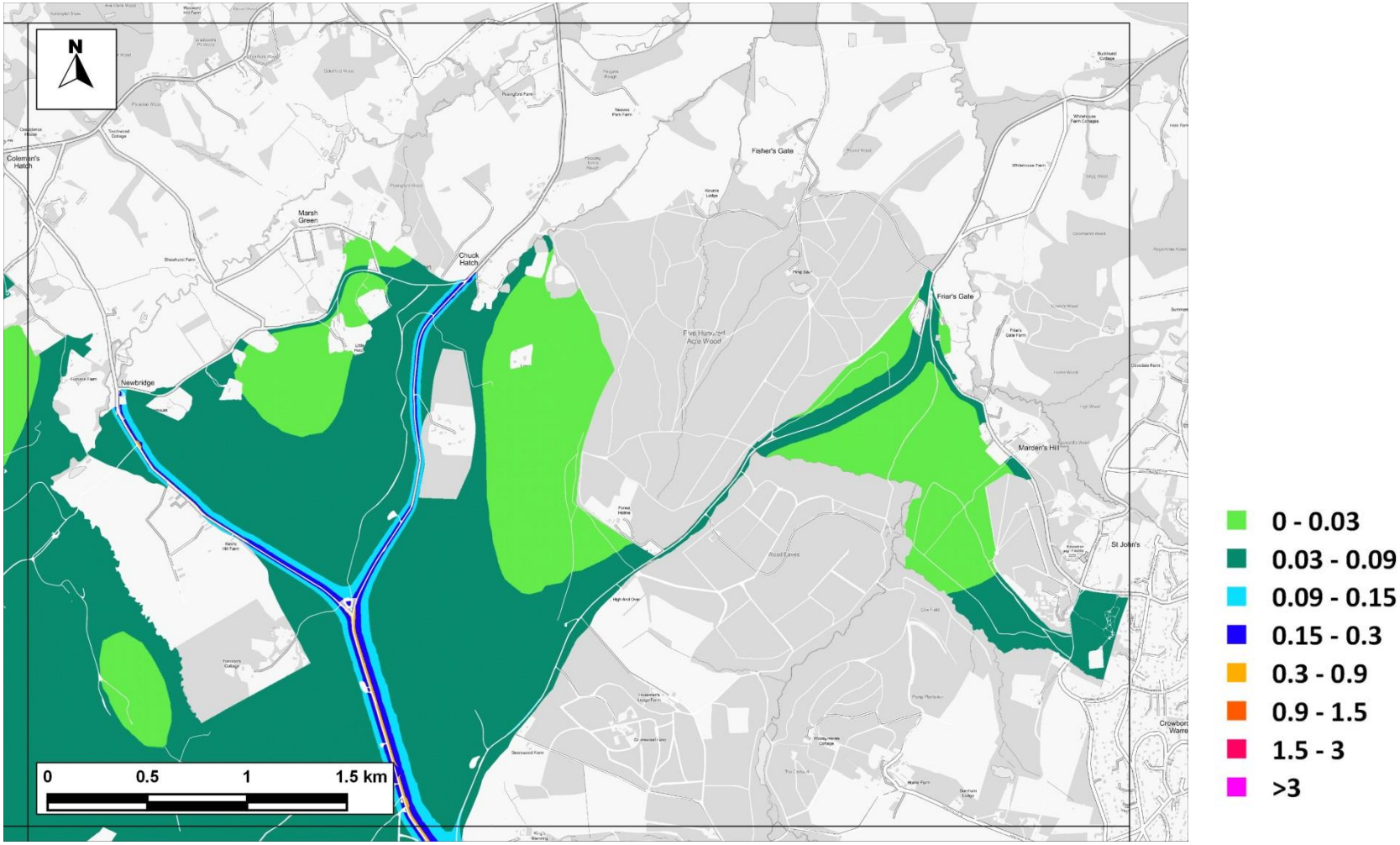


Figure A10.74: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario C (µg/m^3) – Northeast Section

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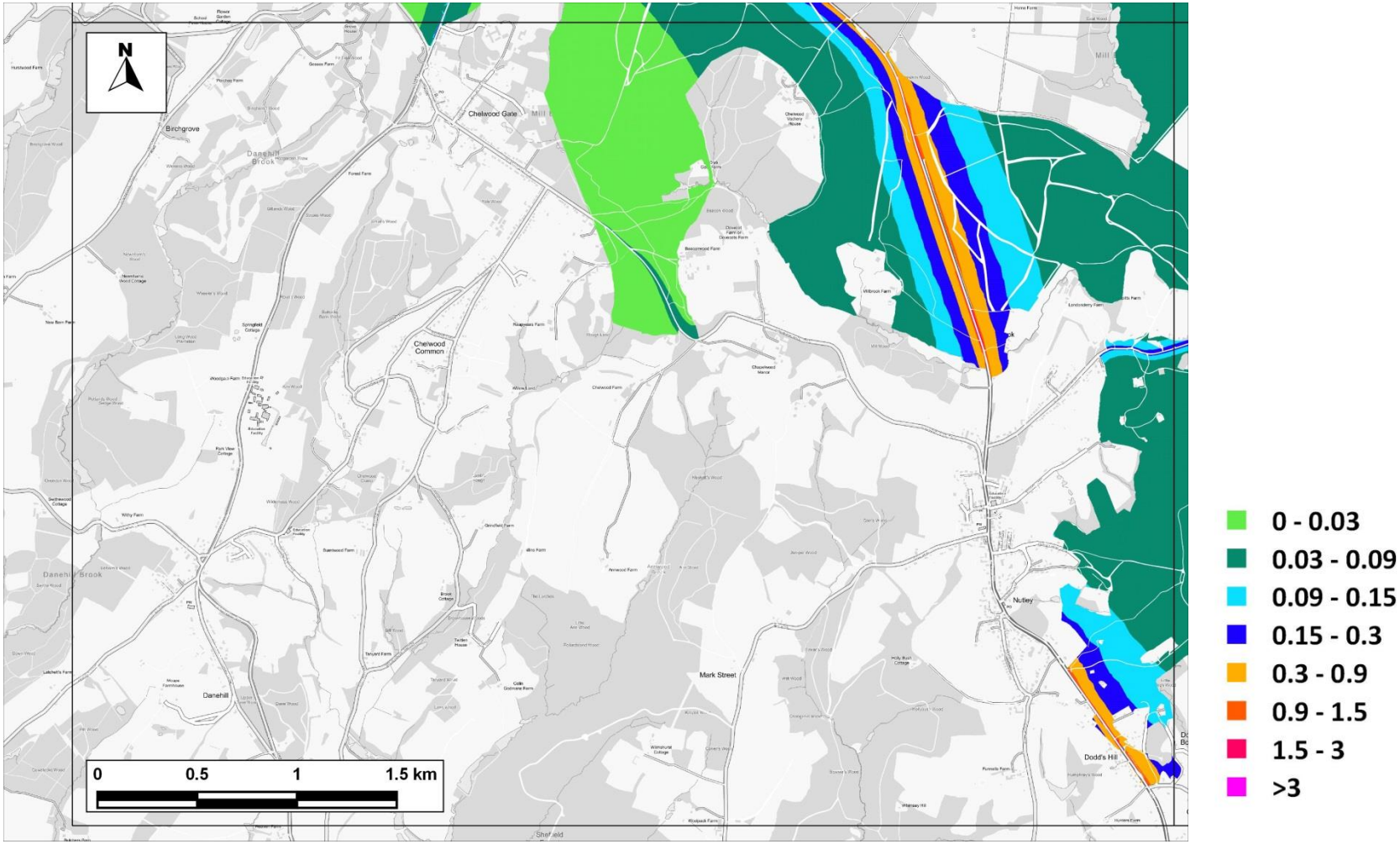


Figure A10.75: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario C (µg/m^3)– Southwest Section

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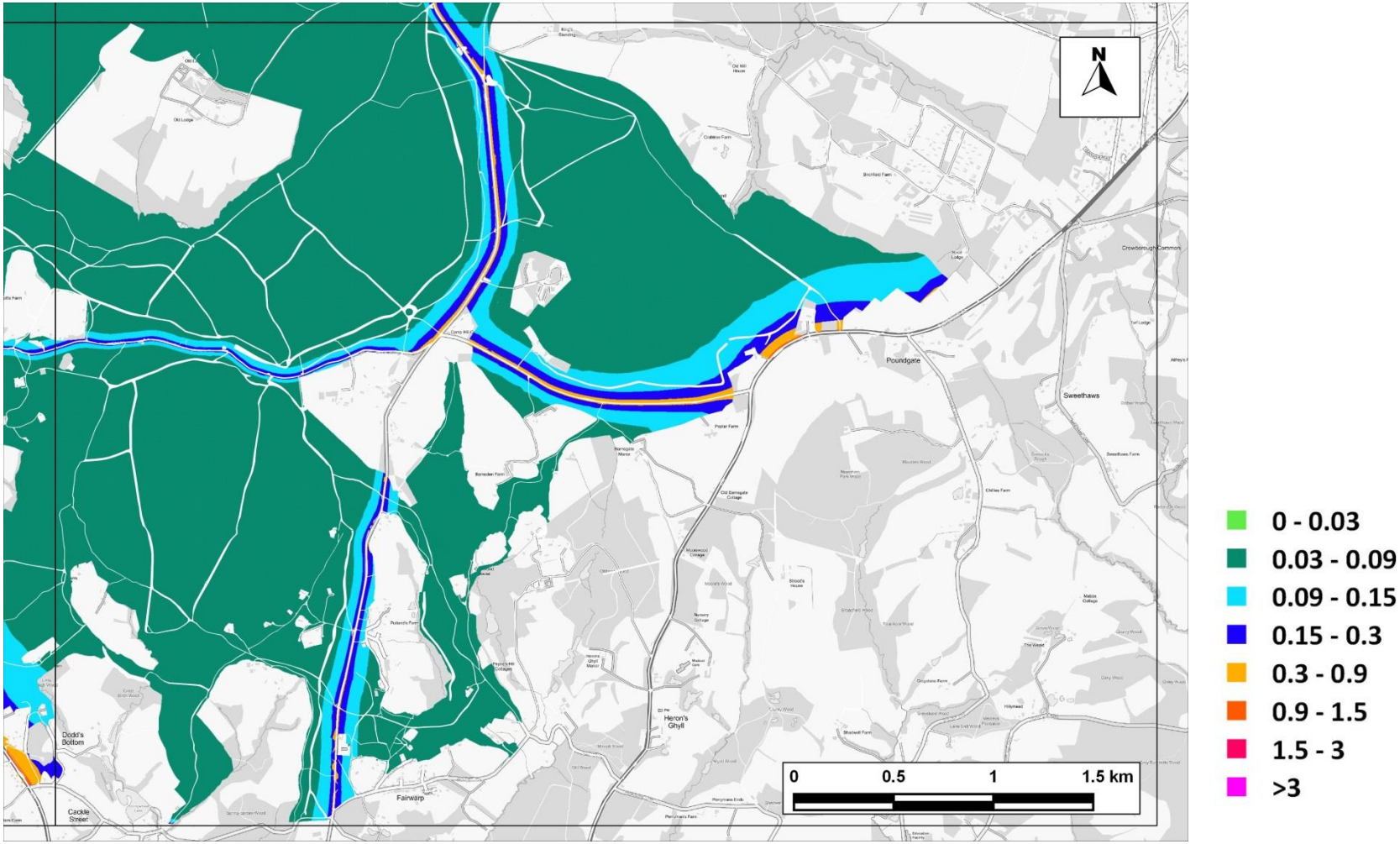


Figure A10.76: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No WDC-Growth' Under Emissions Scenario C (µg/m^3) – Southeast Section

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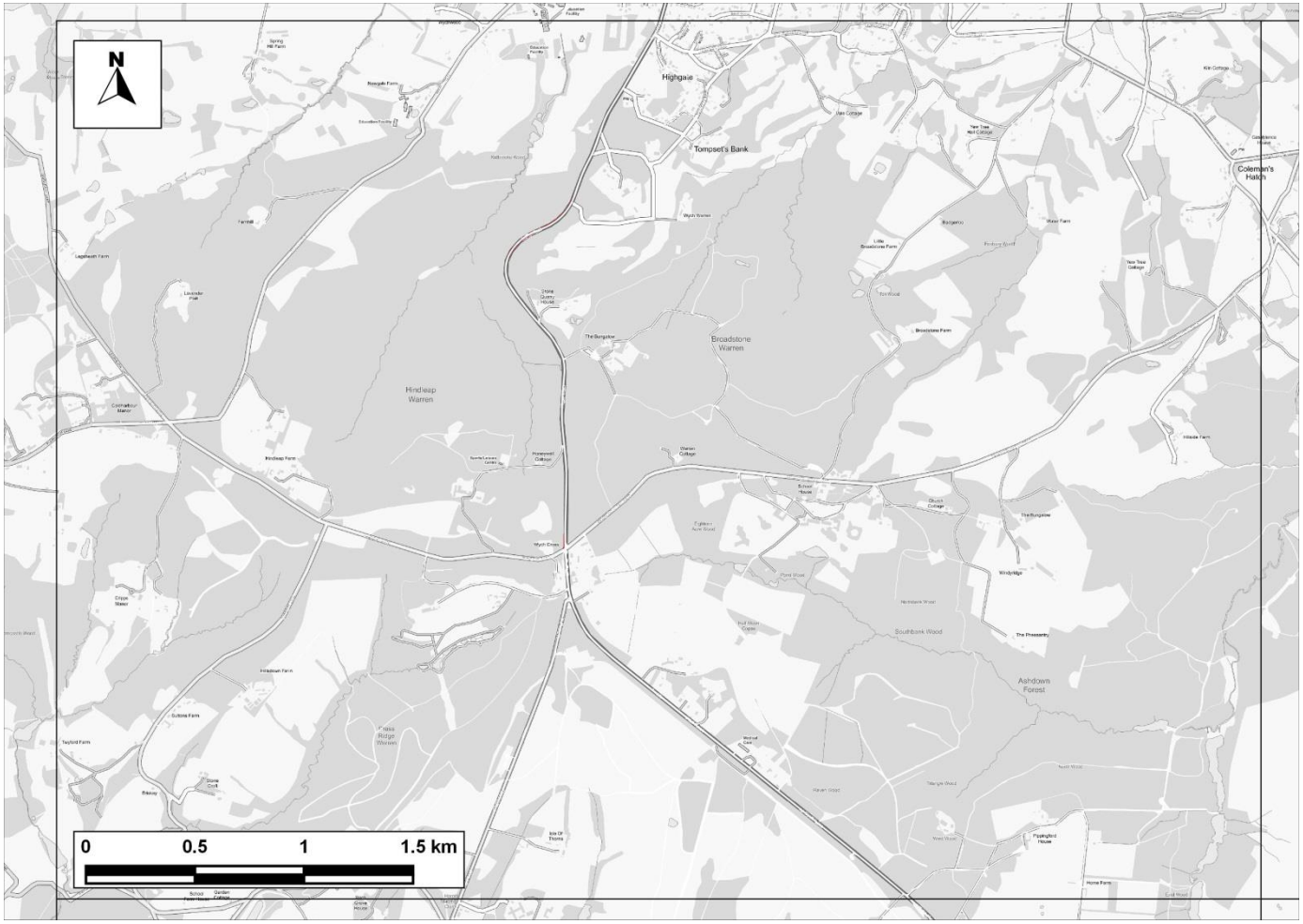


Figure A10.77: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A10.78: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northeast Section

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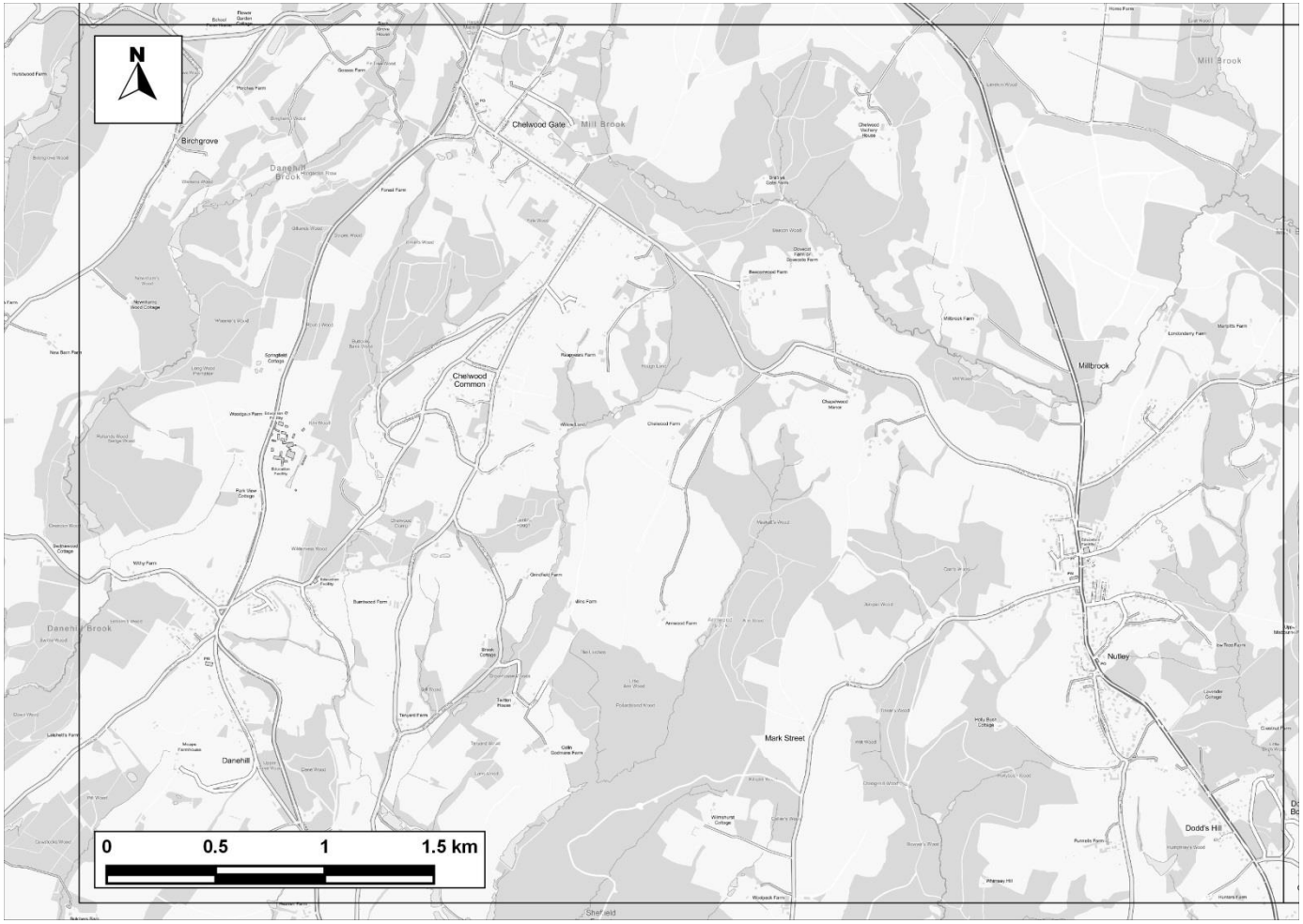


Figure A10.79: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A10.80: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southeast Section

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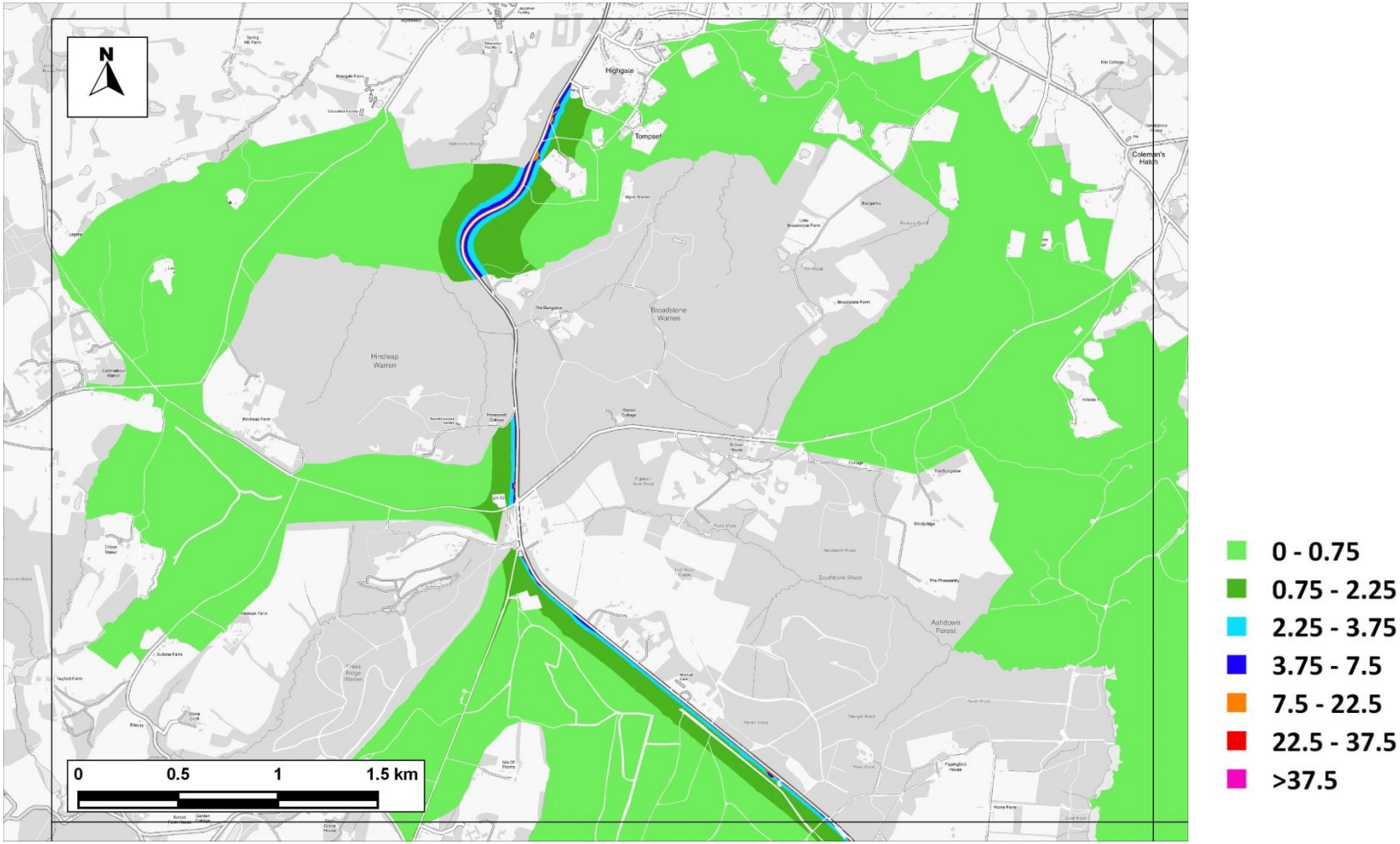


Figure A10.81: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario C (µg/m^3) – Northwest Section

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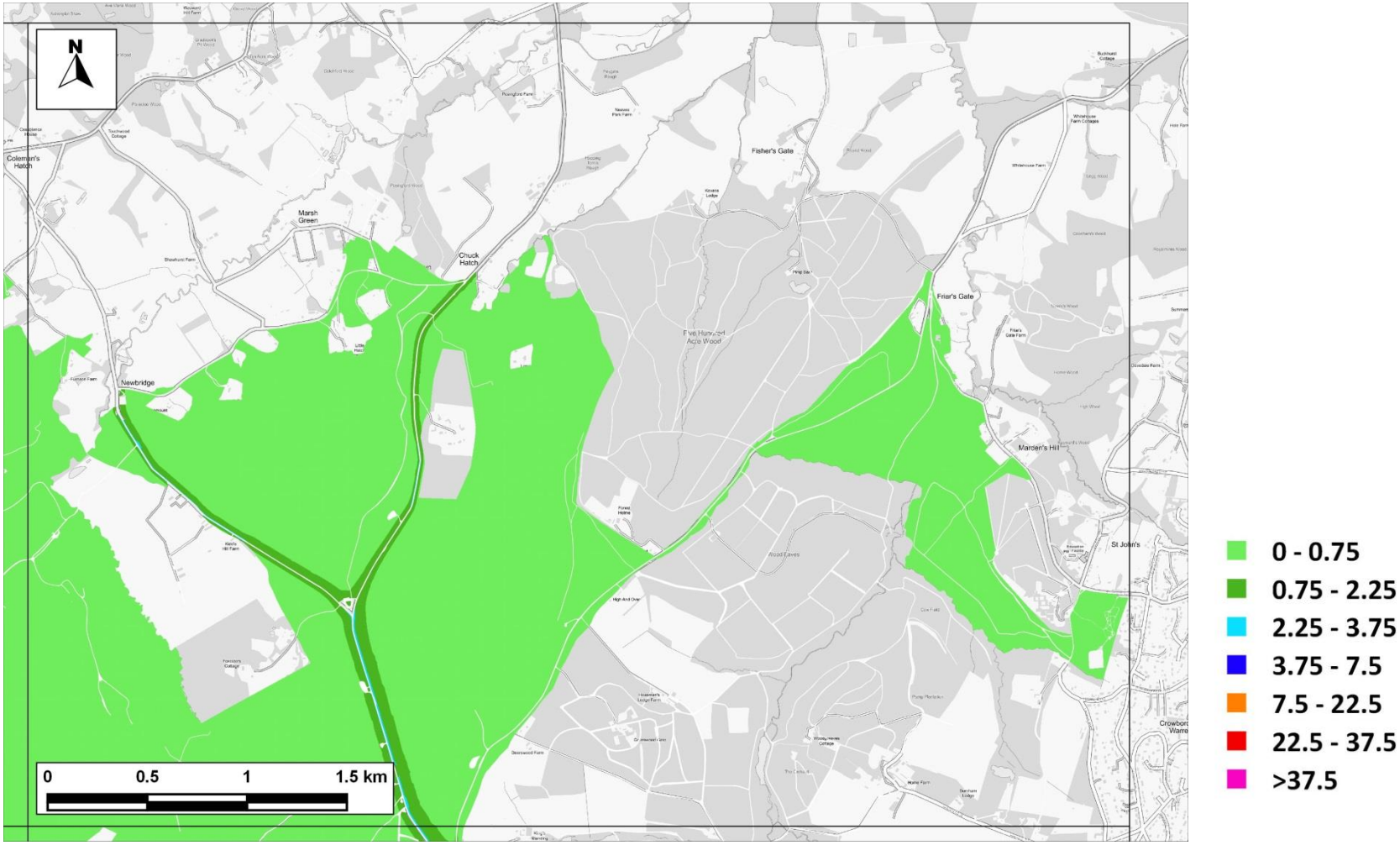


Figure A10.82: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario C (µg/m^3) – Northeast Section

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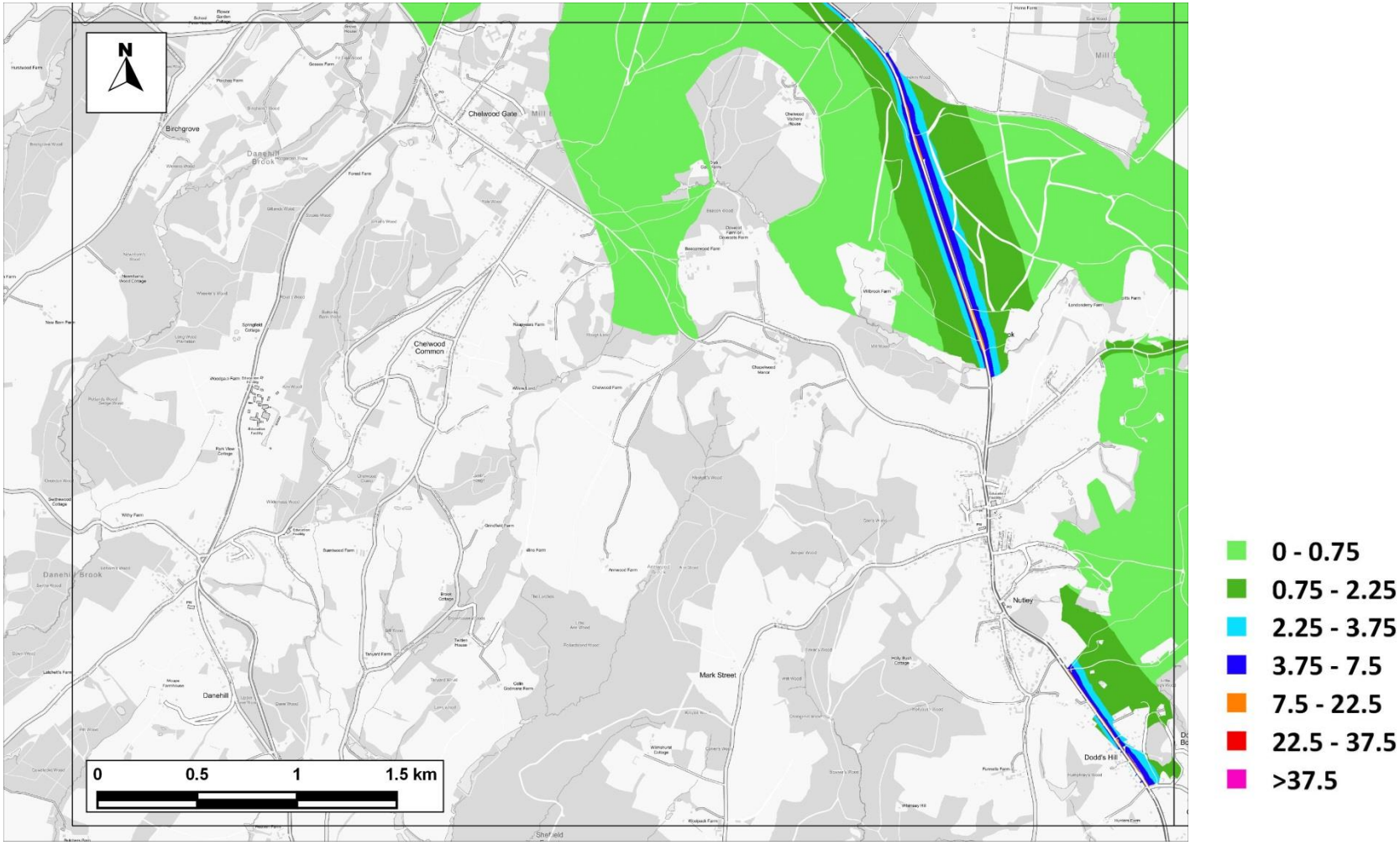


Figure A10.83: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario C (µg/m^3) – Southwest Section

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Figure A10.84: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No WDC-Growth' under Emissions Scenario C (µg/m^3) – Southeast Section

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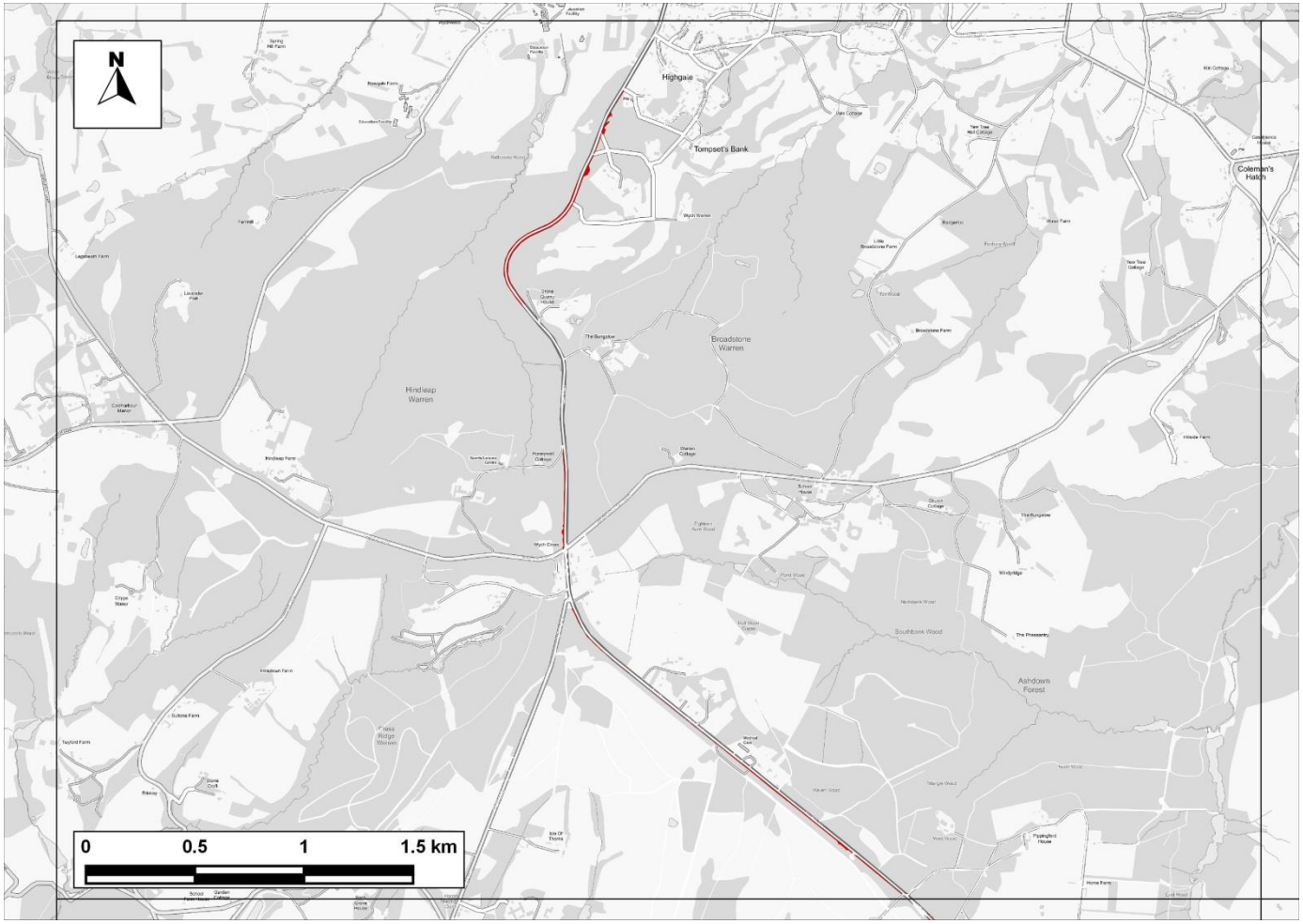


Figure A10.85: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A10.86: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northeast Section

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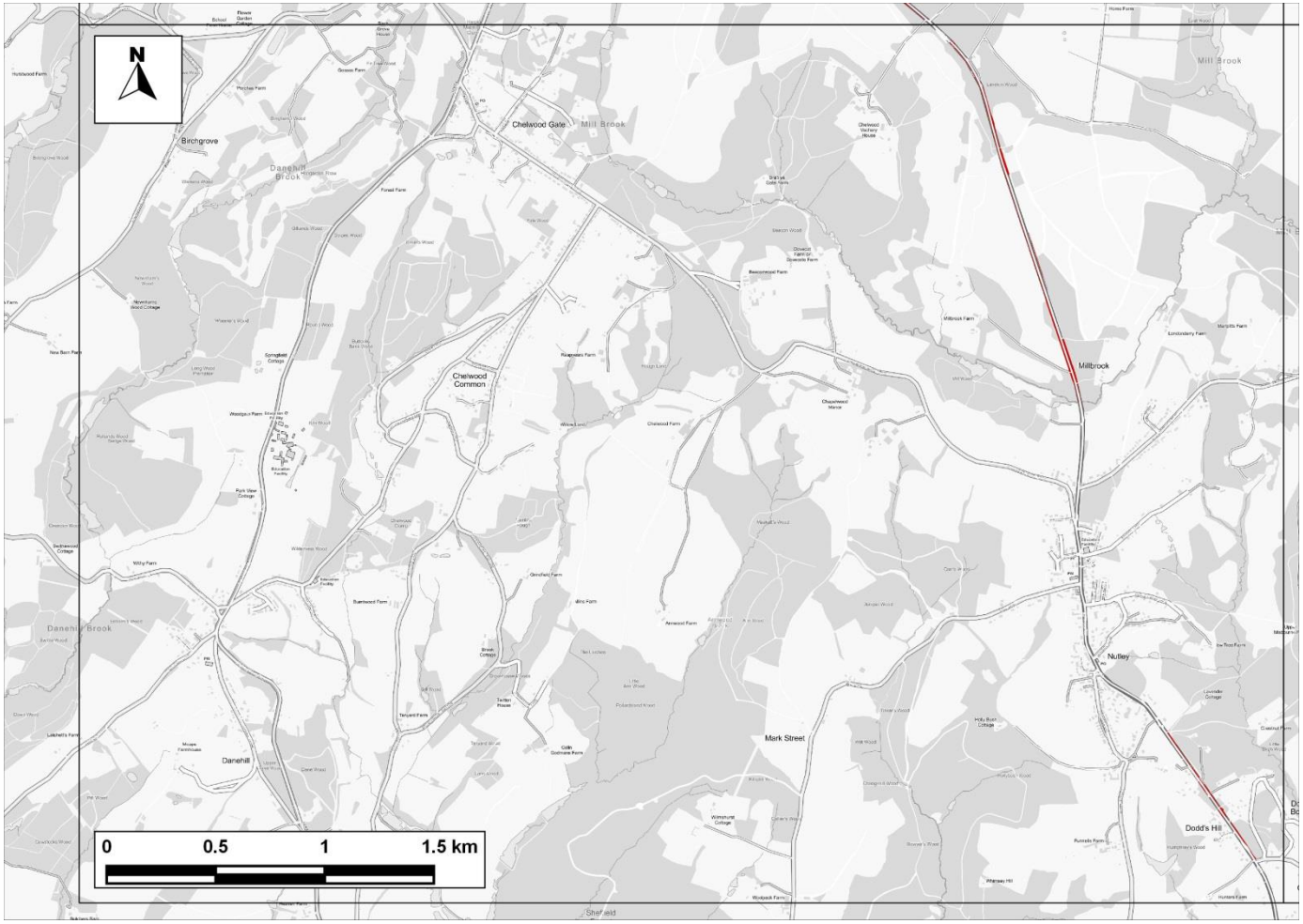


Figure A10.87: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A10.88: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southeast Section

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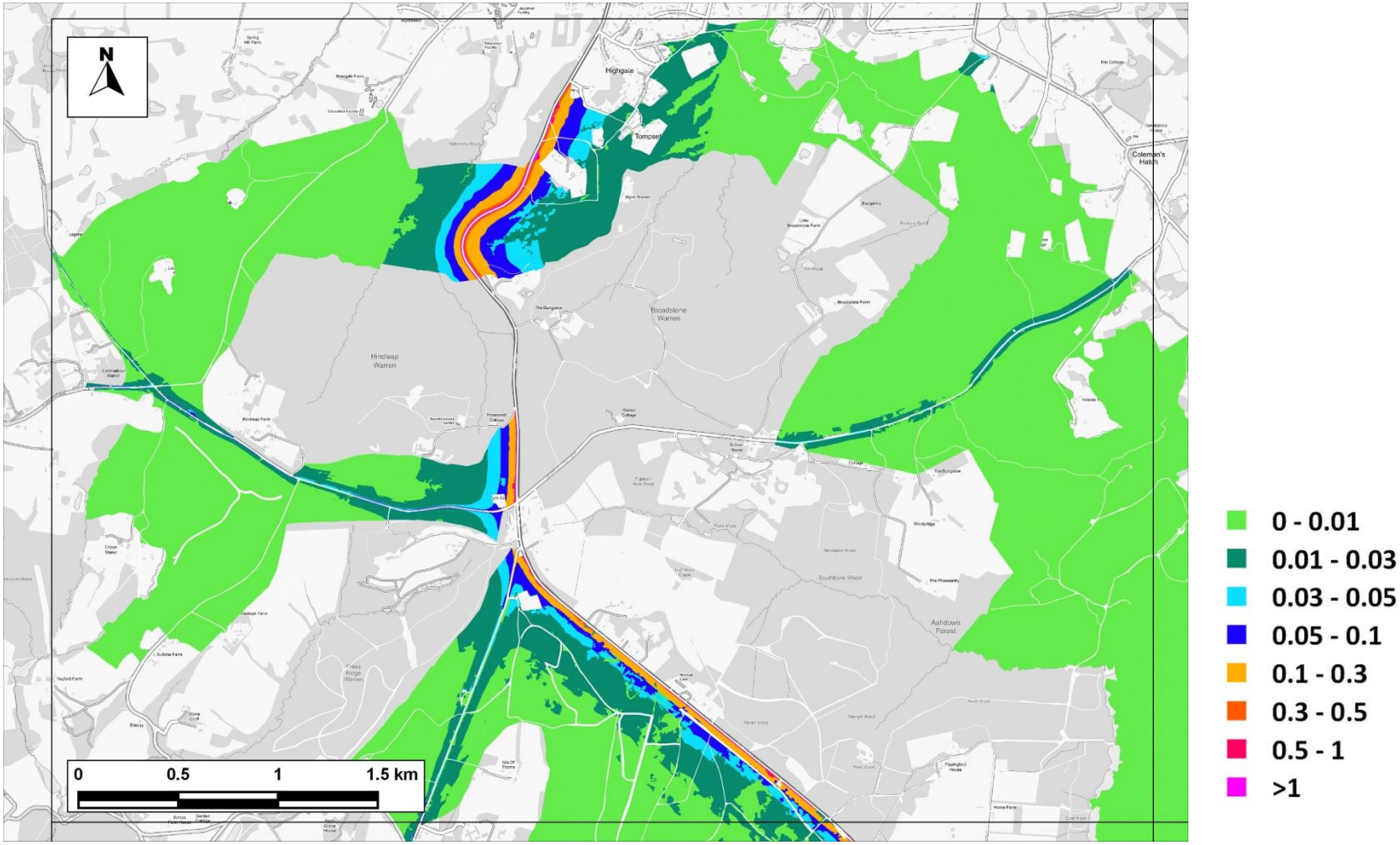


Figure A10.89: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northwest Section

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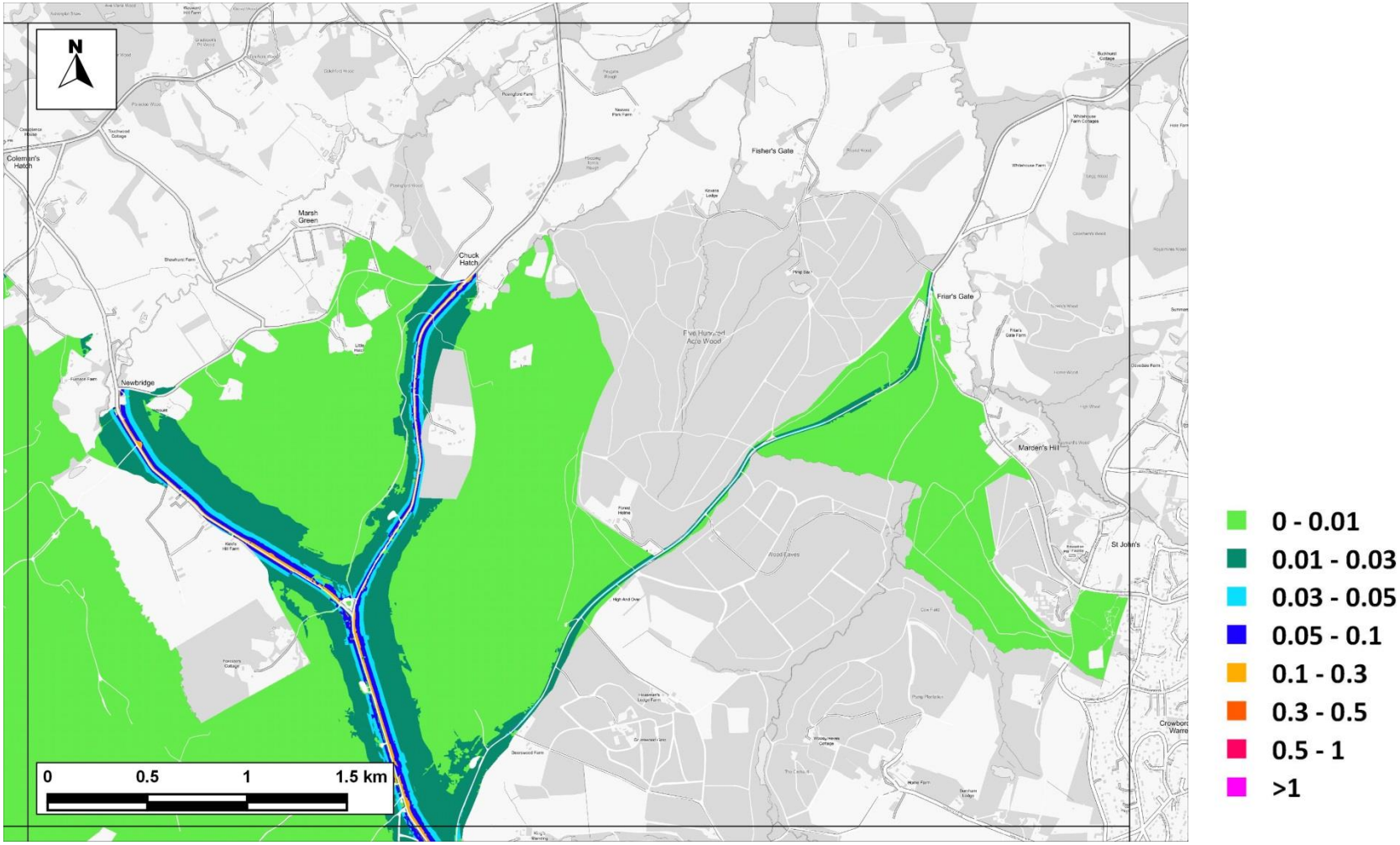


Figure A10.90: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northeast Section

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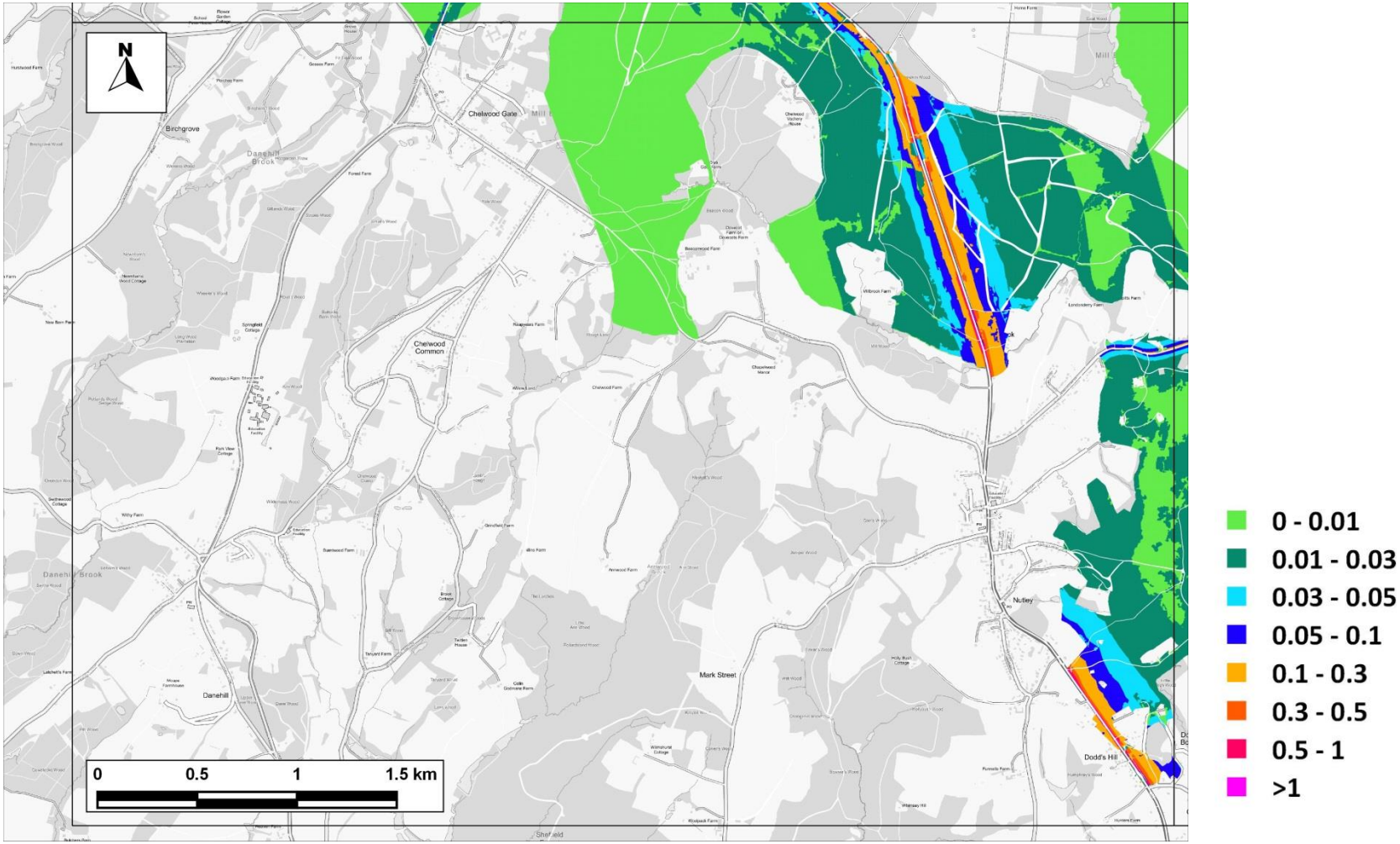


Figure A10.91: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southwest Section

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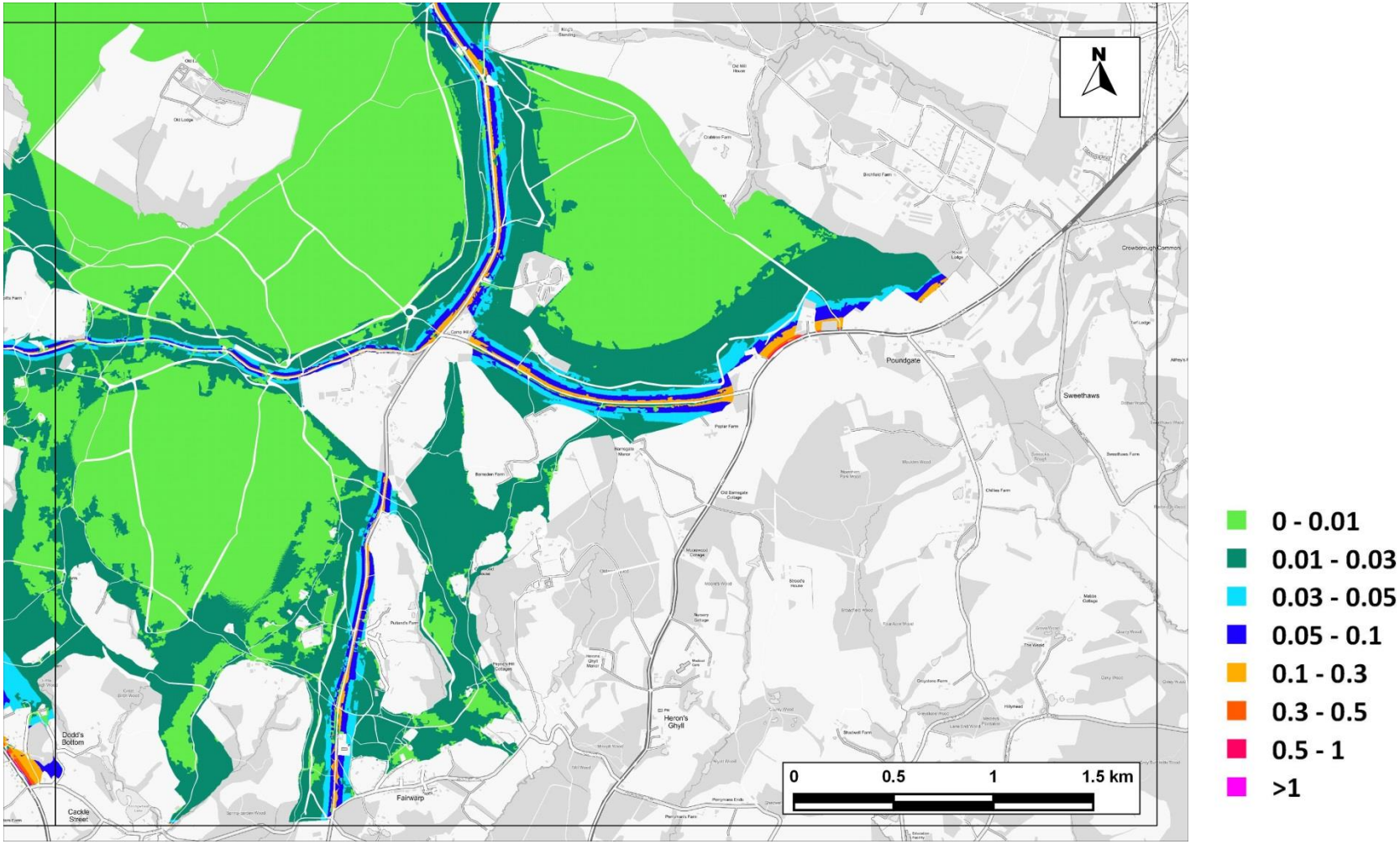


Figure A10.92: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southeast Section

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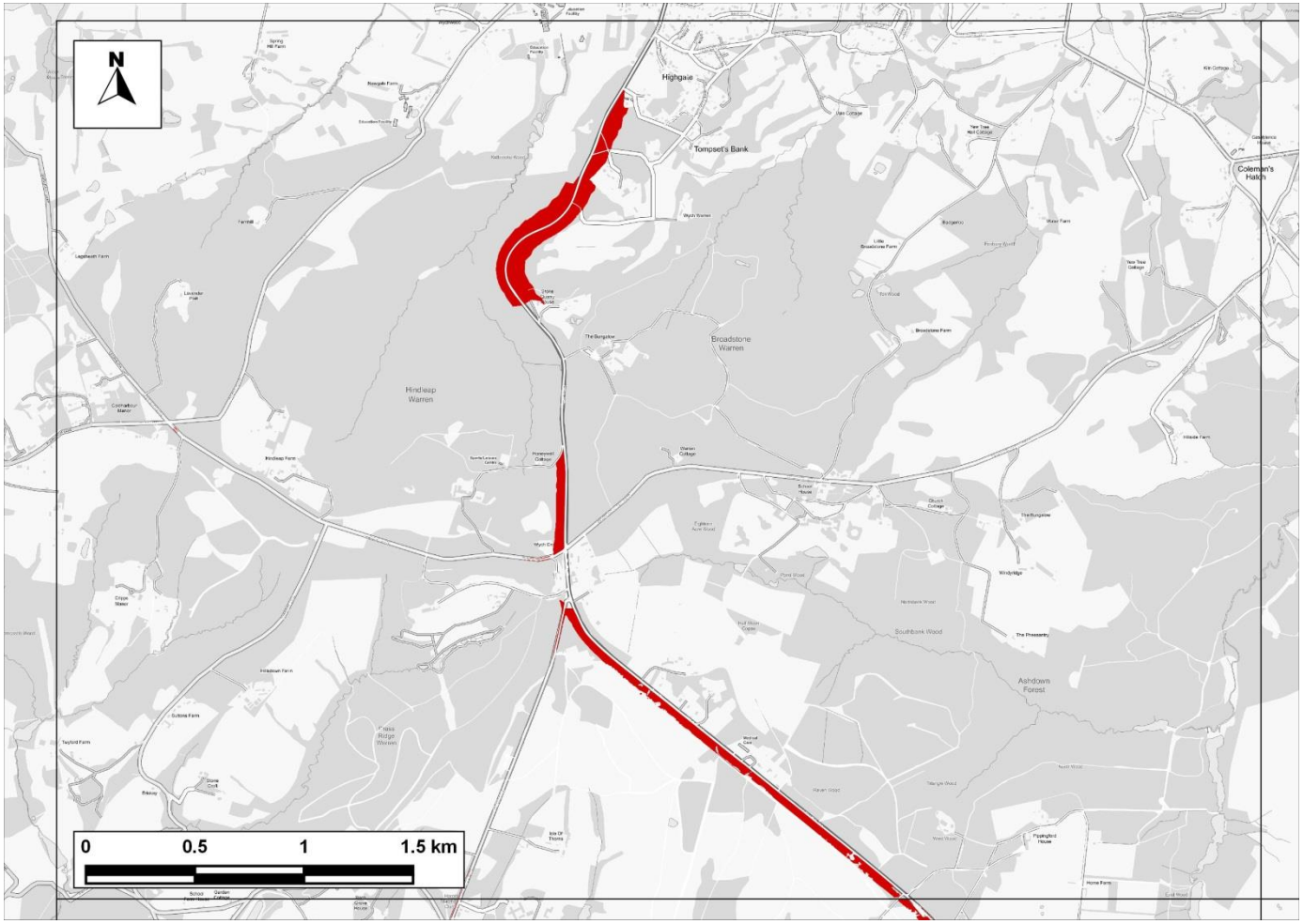


Figure A10.93: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Northwest Section

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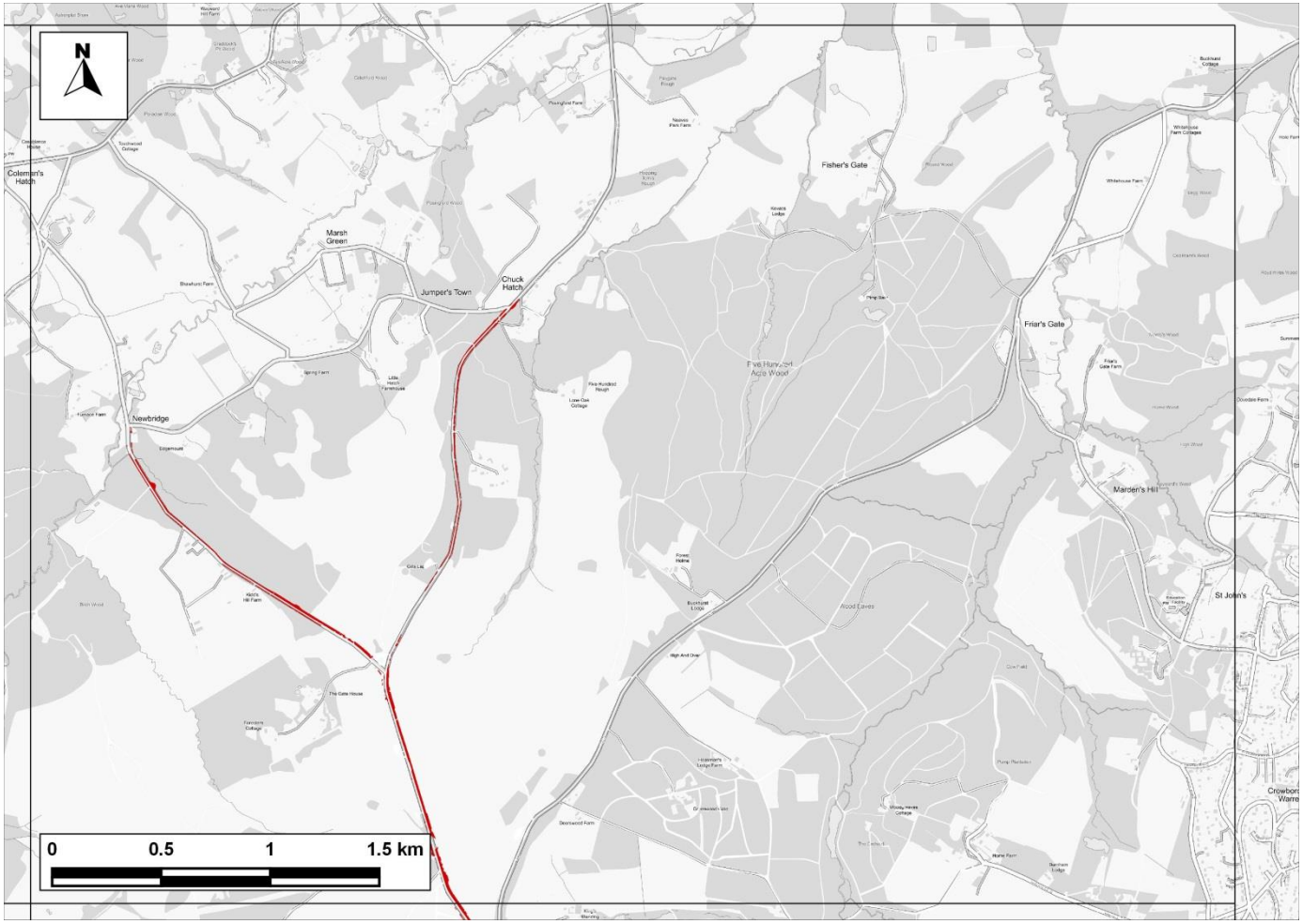


Figure A10.94: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Northeast Section

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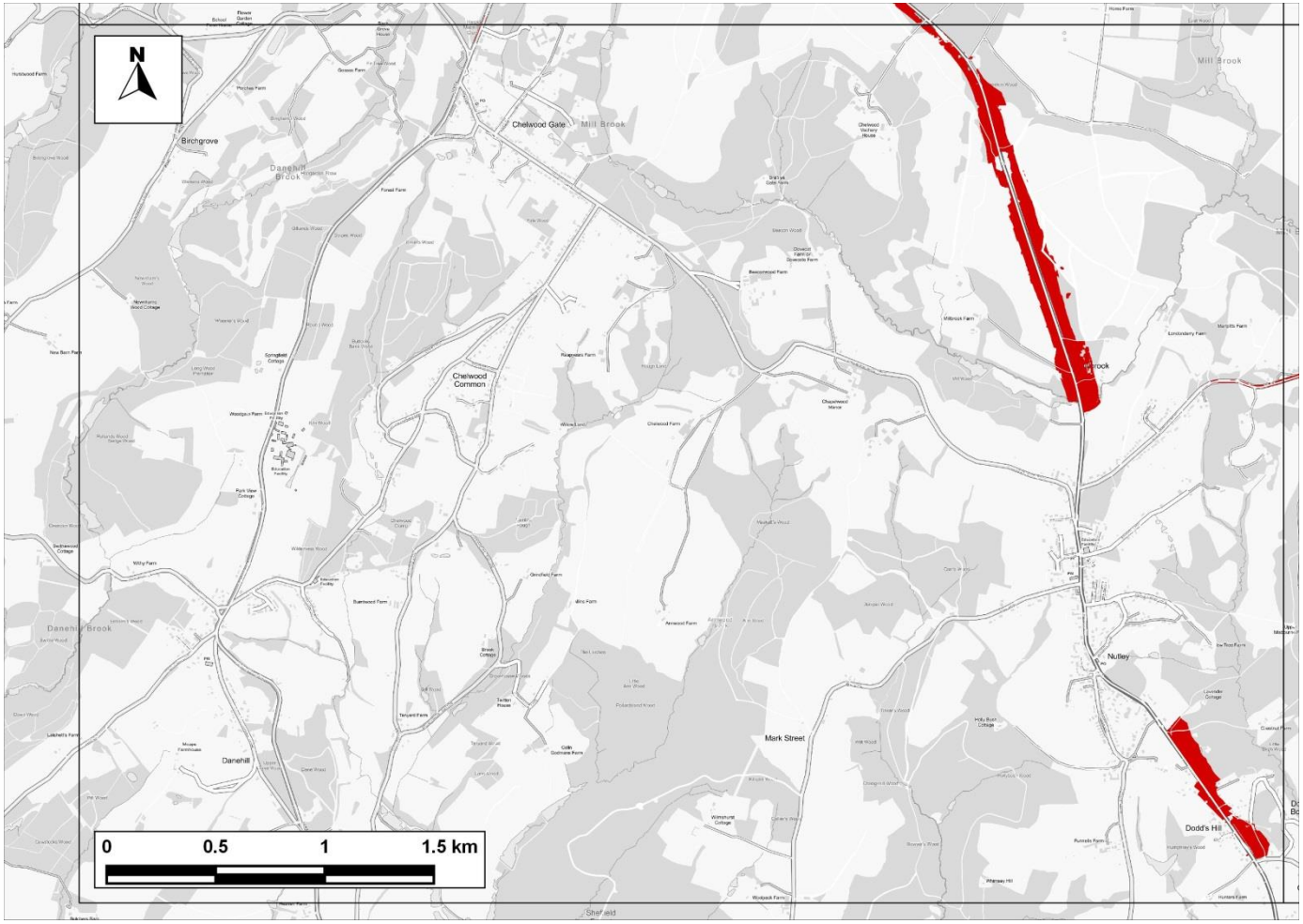


Figure A10.95: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Southwest Section

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Figure A10.96 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Southeast Section

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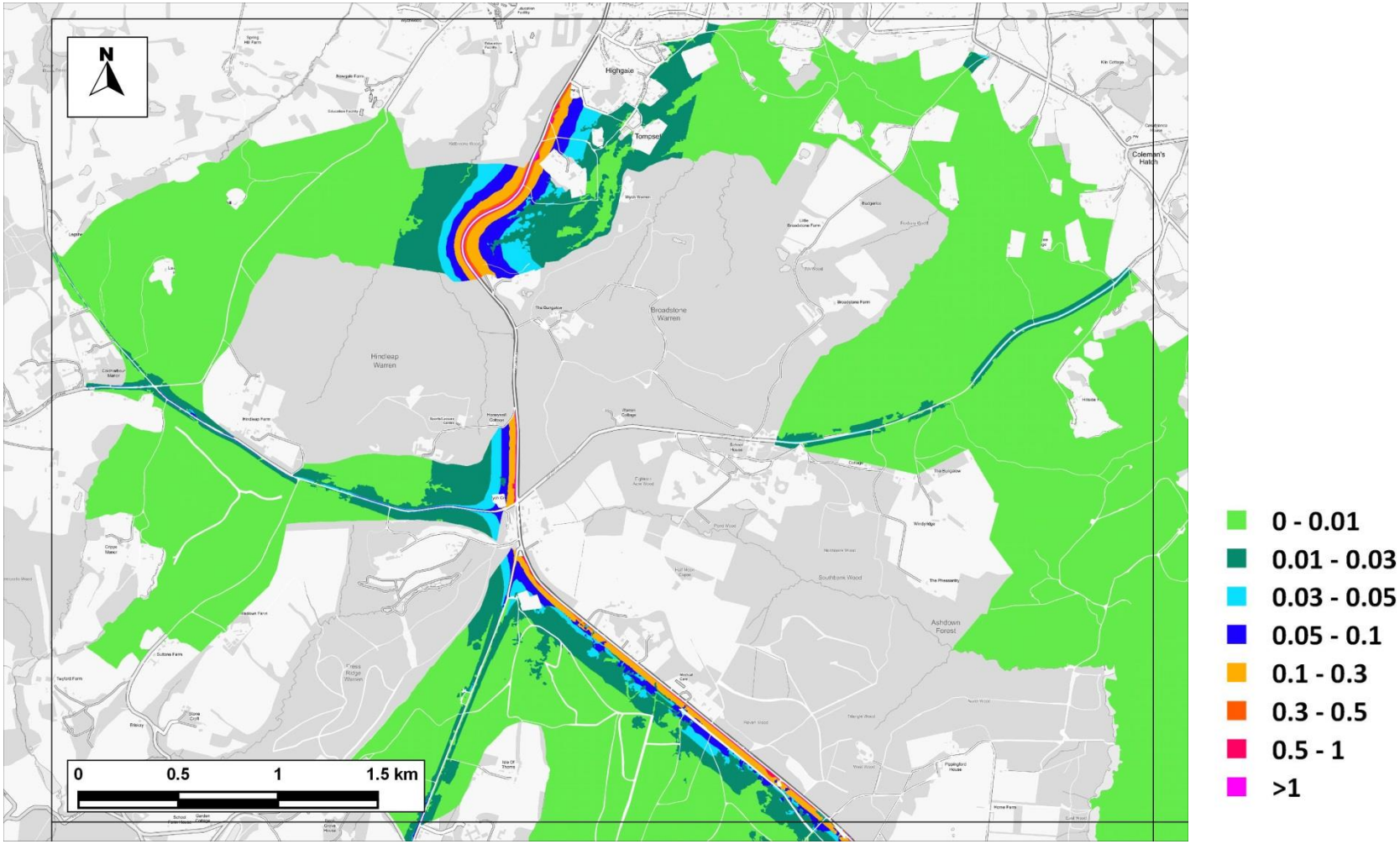


Figure A10.97: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northwest Section

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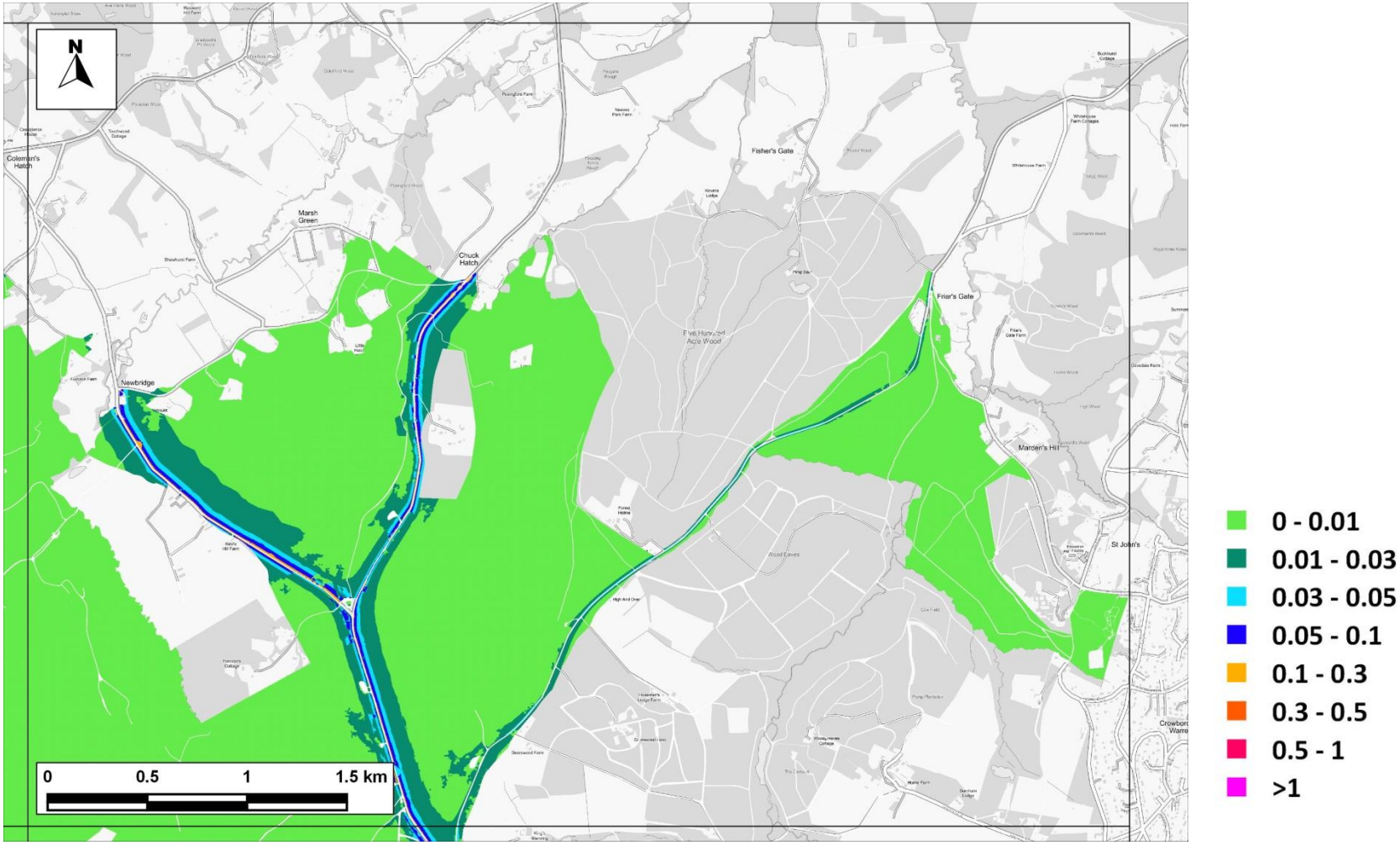


Figure A10.98: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northeast Section

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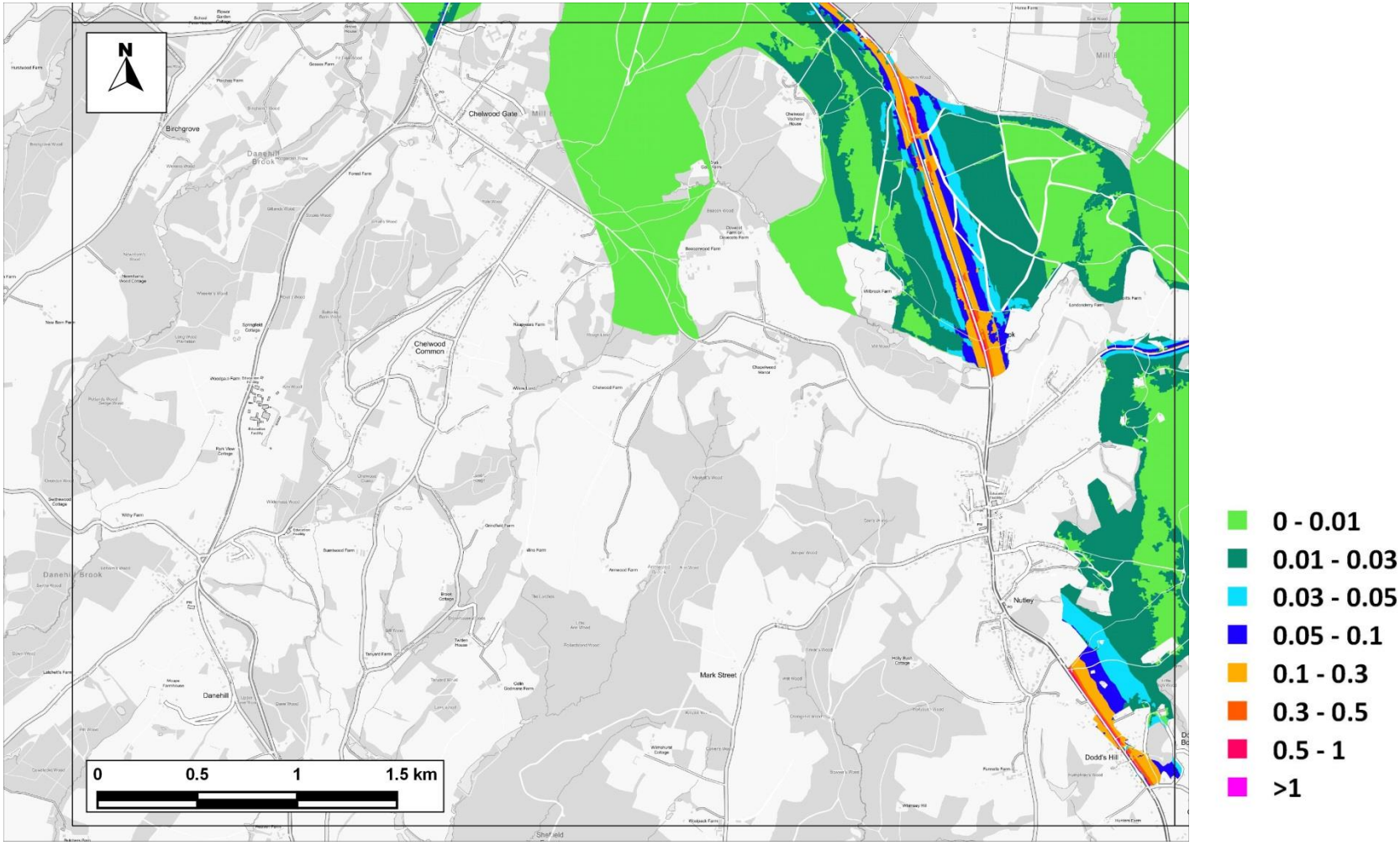


Figure A10.99: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southwest Section

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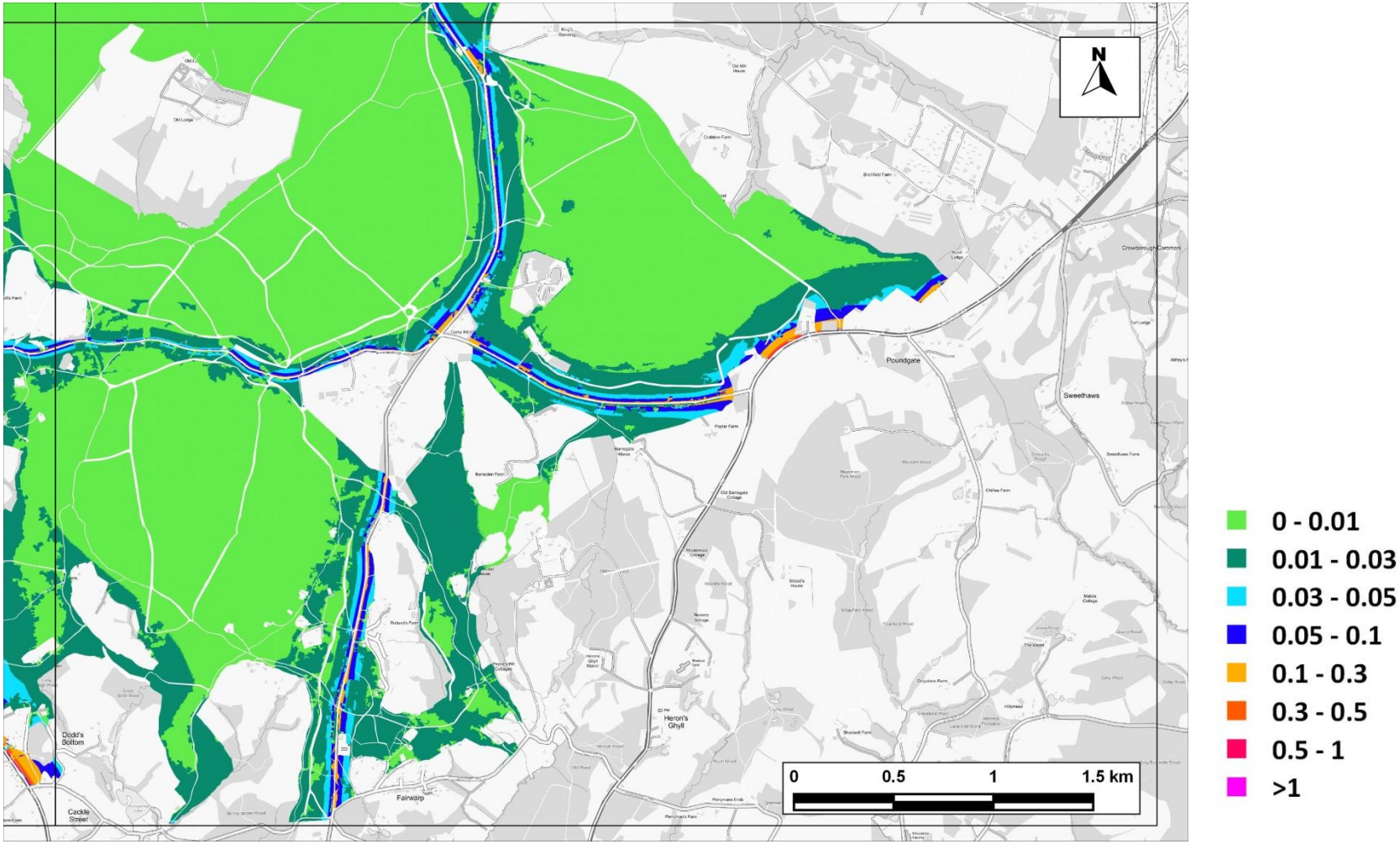


Figure A10.100: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southeast Section

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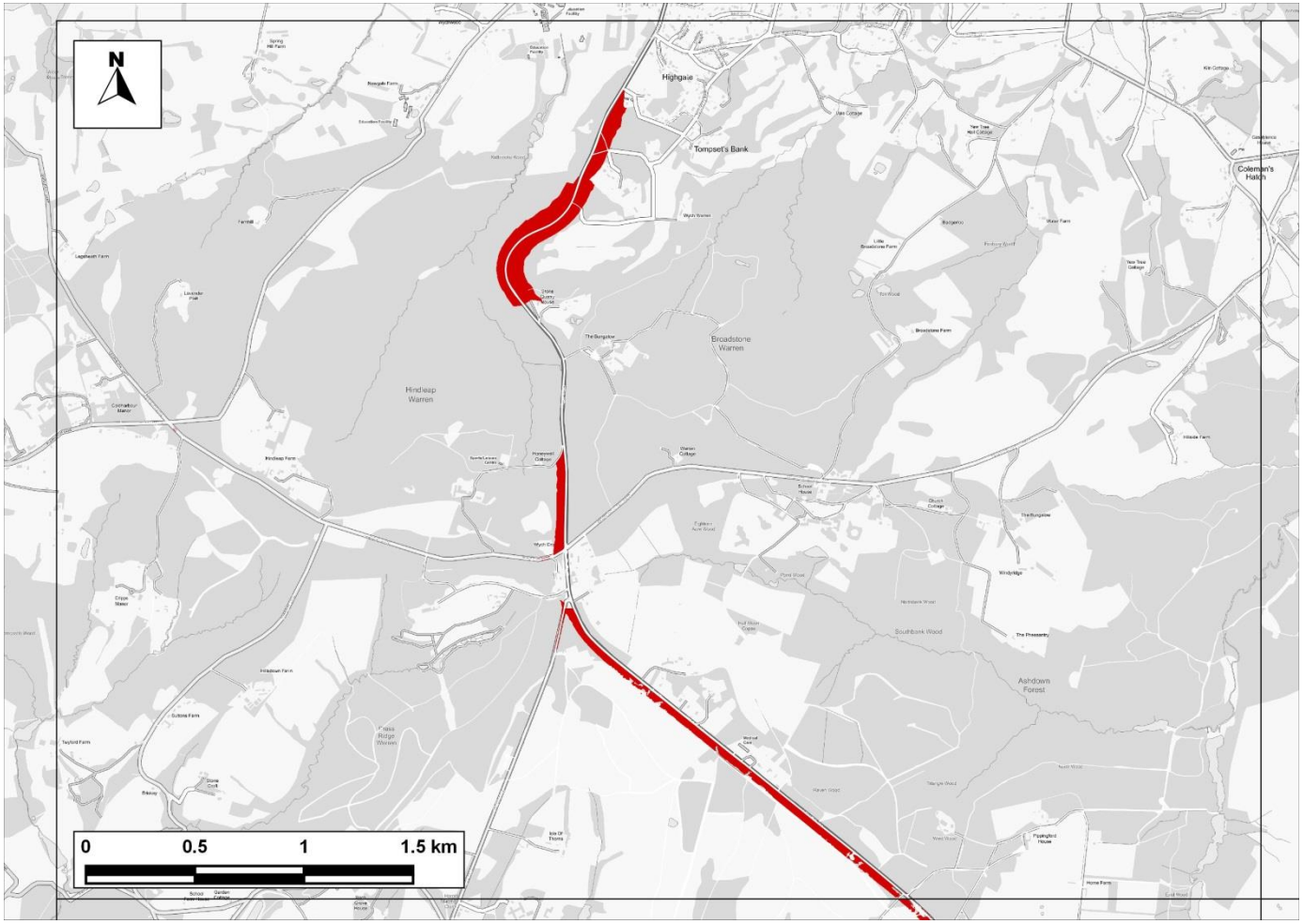


Figure A10.101: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Northwest Section

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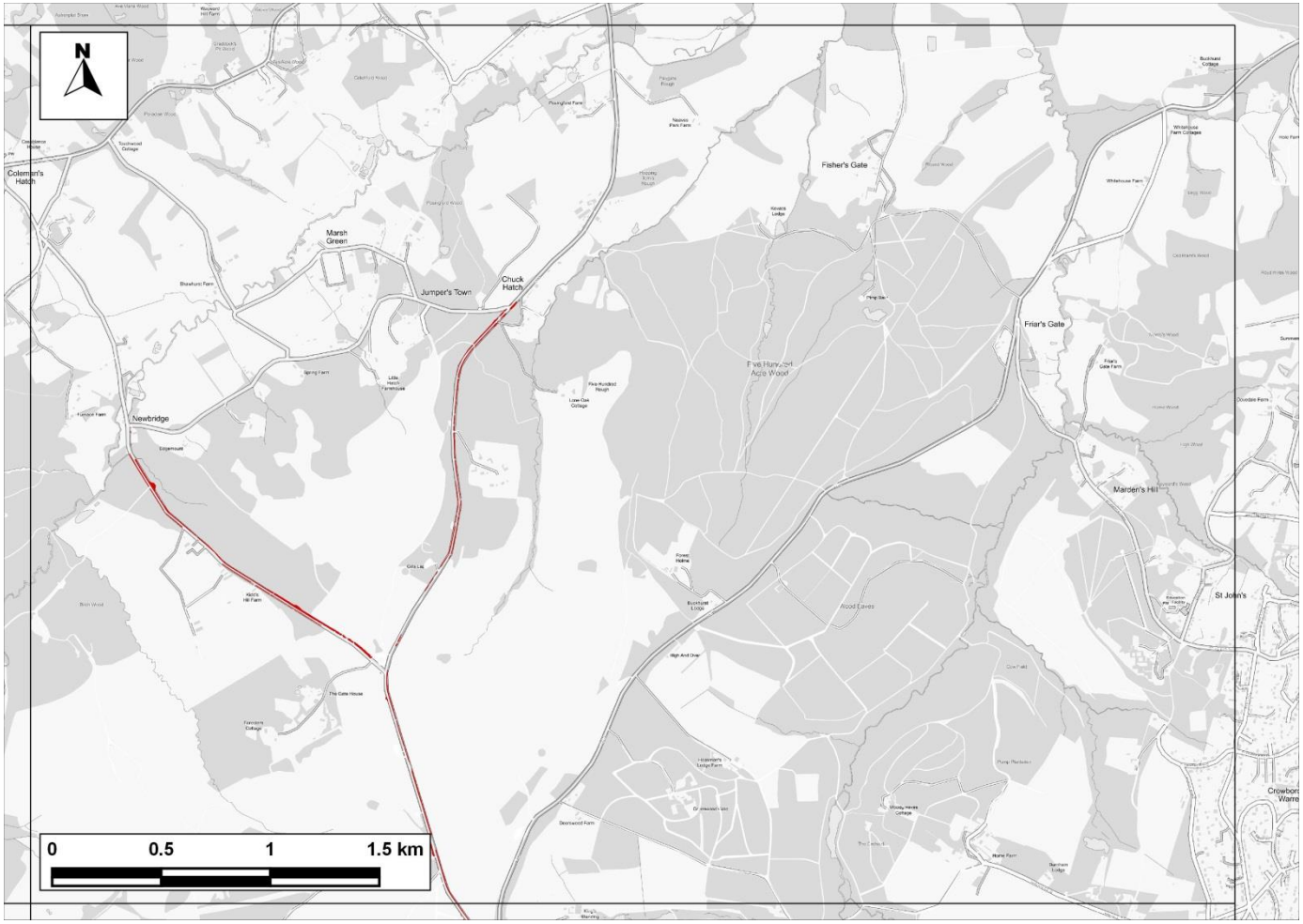


Figure A10.102: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Northeast Section

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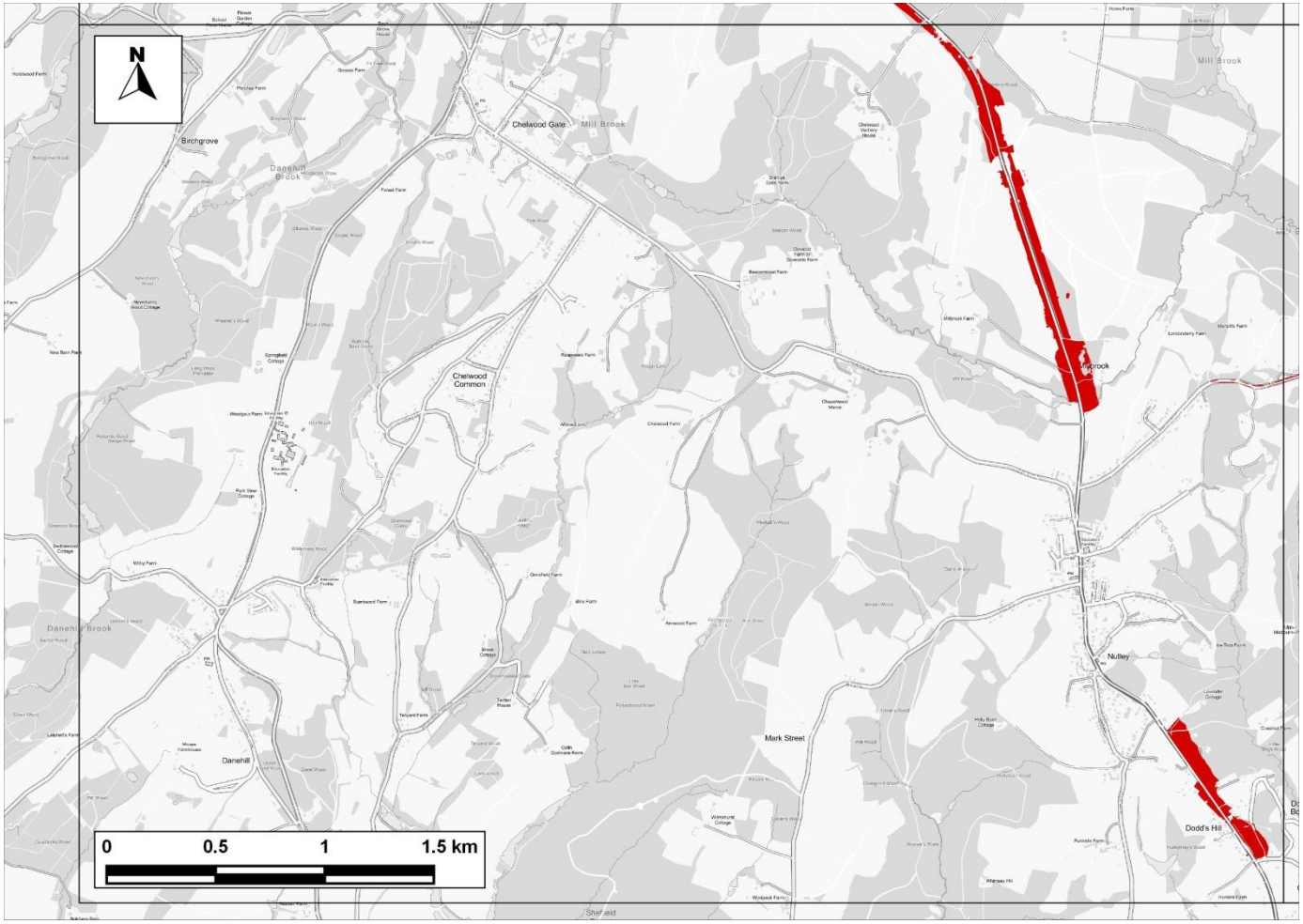


Figure A10.103: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Southwest Section

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Figure A10.104 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Southeast Section

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Appendix 11. Maps of Changes Caused by Local Plan In Combination with Other Predicted Traffic Growth

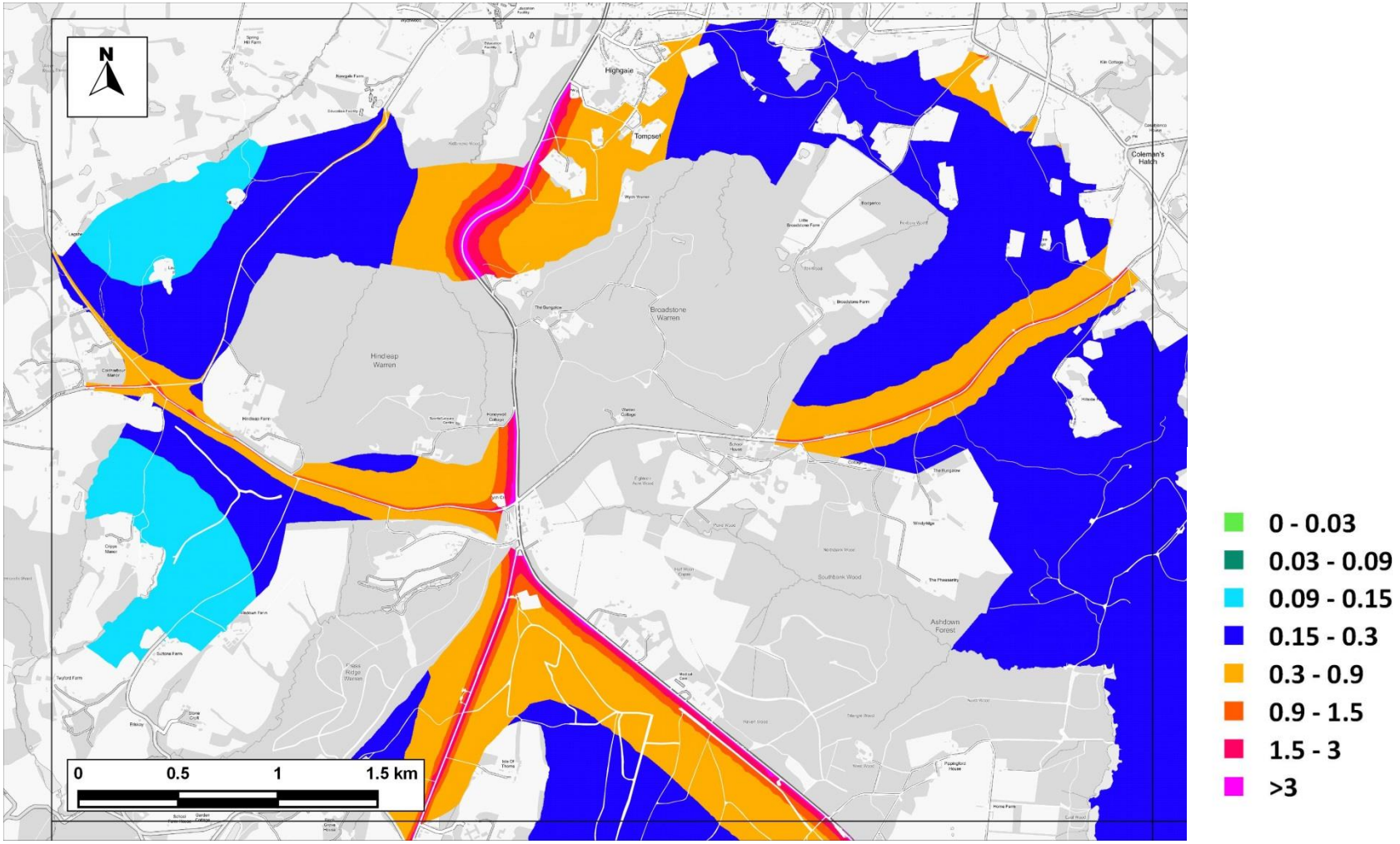


Figure A11.1: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario A (µg/m^3) – Northwest Section

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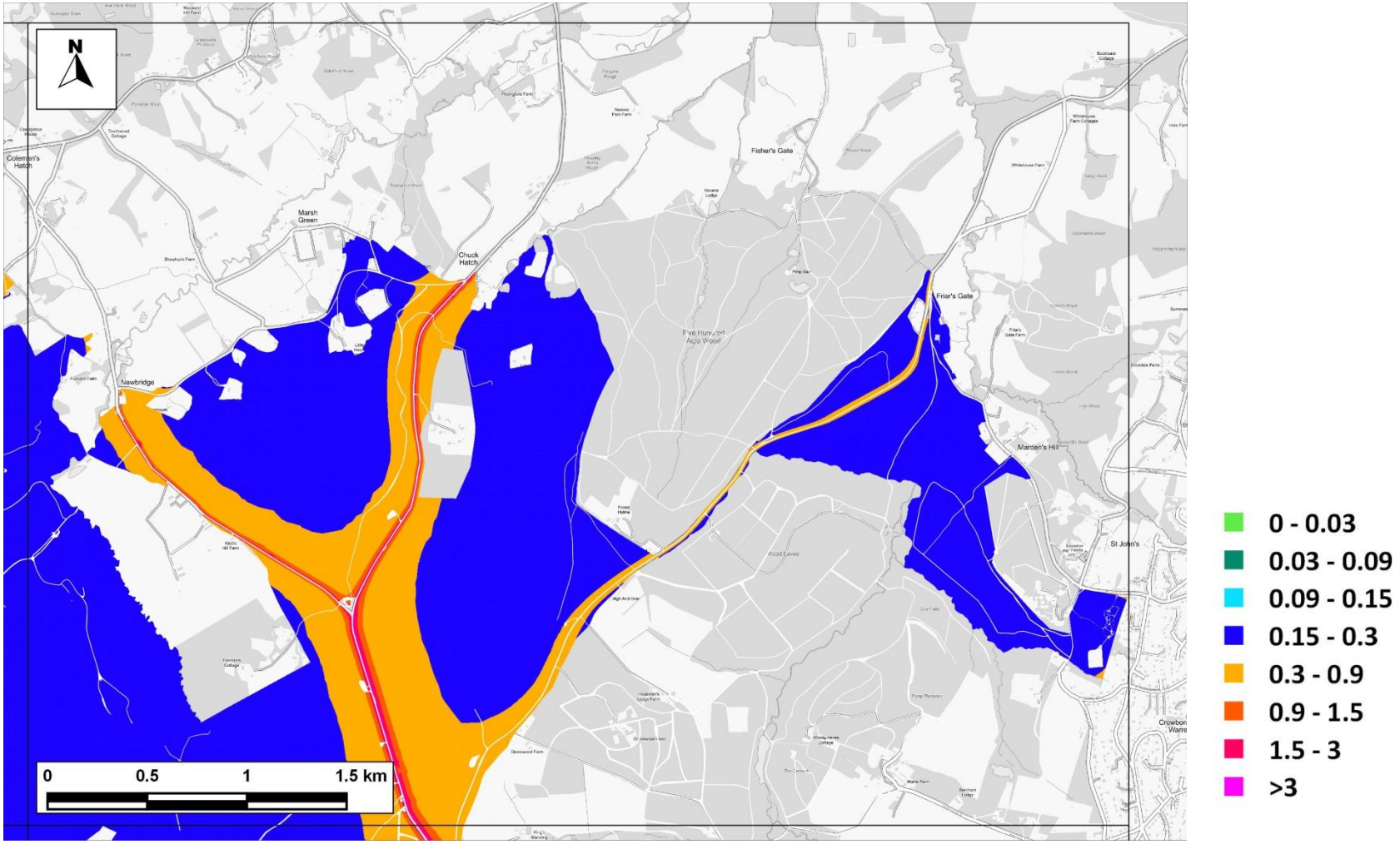


Figure A11.2: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario A (µg/m^3) – Northeast Section

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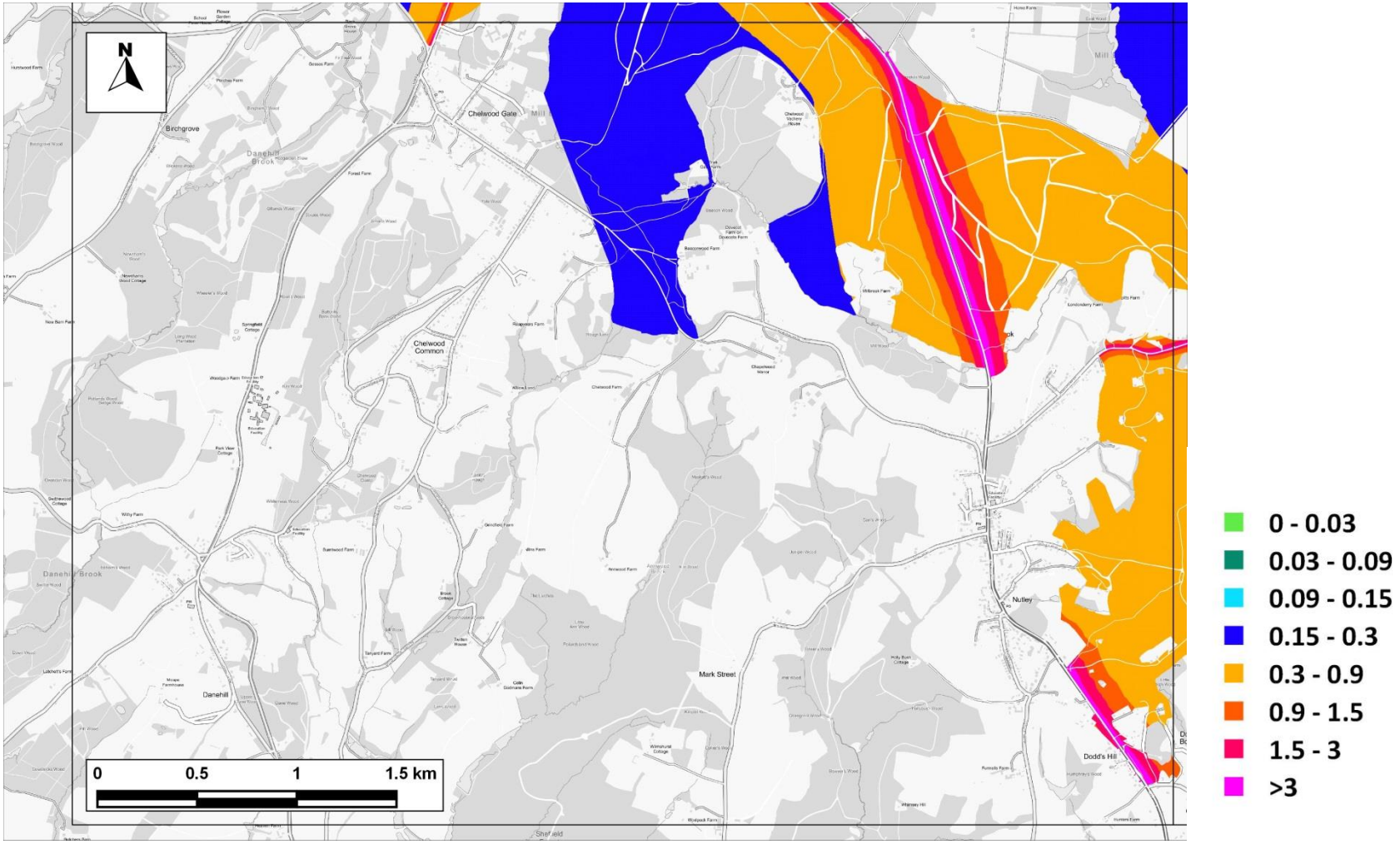


Figure A11.3: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario A (µg/m^3)– Southwest Section

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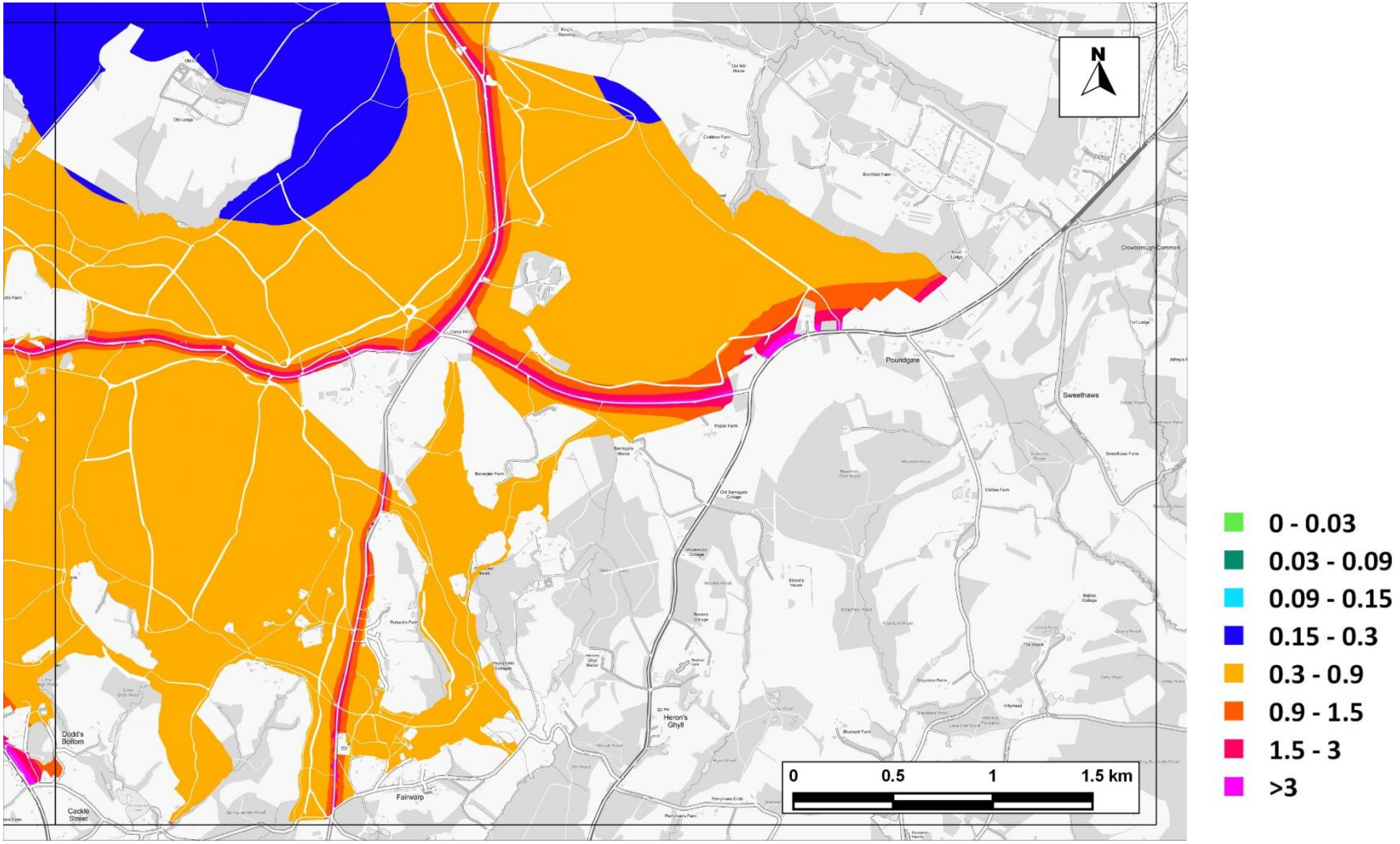


Figure A11.4: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario A (µg/m^3) – Southeast Section

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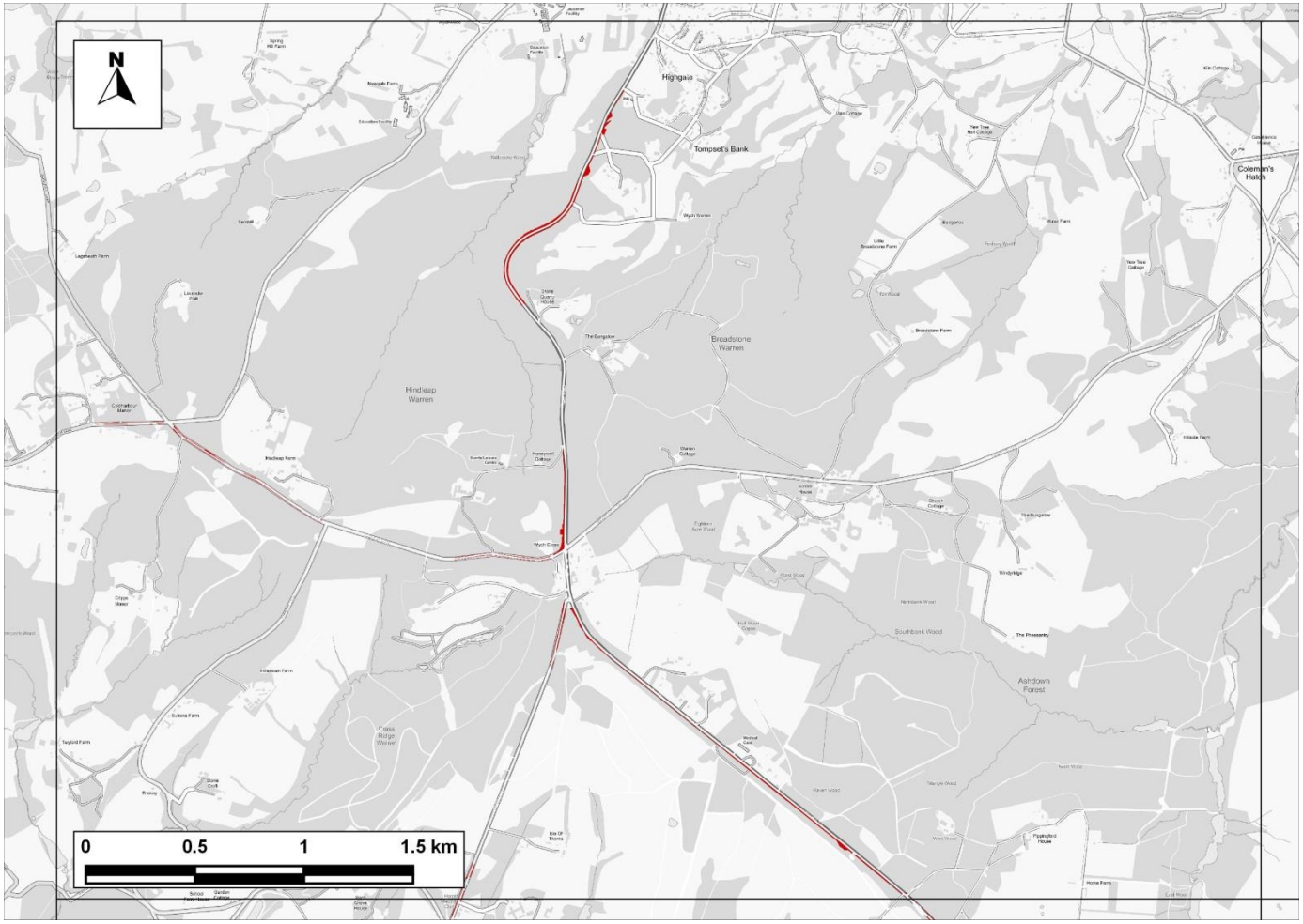


Figure A11.5: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A11.6: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northeast Section

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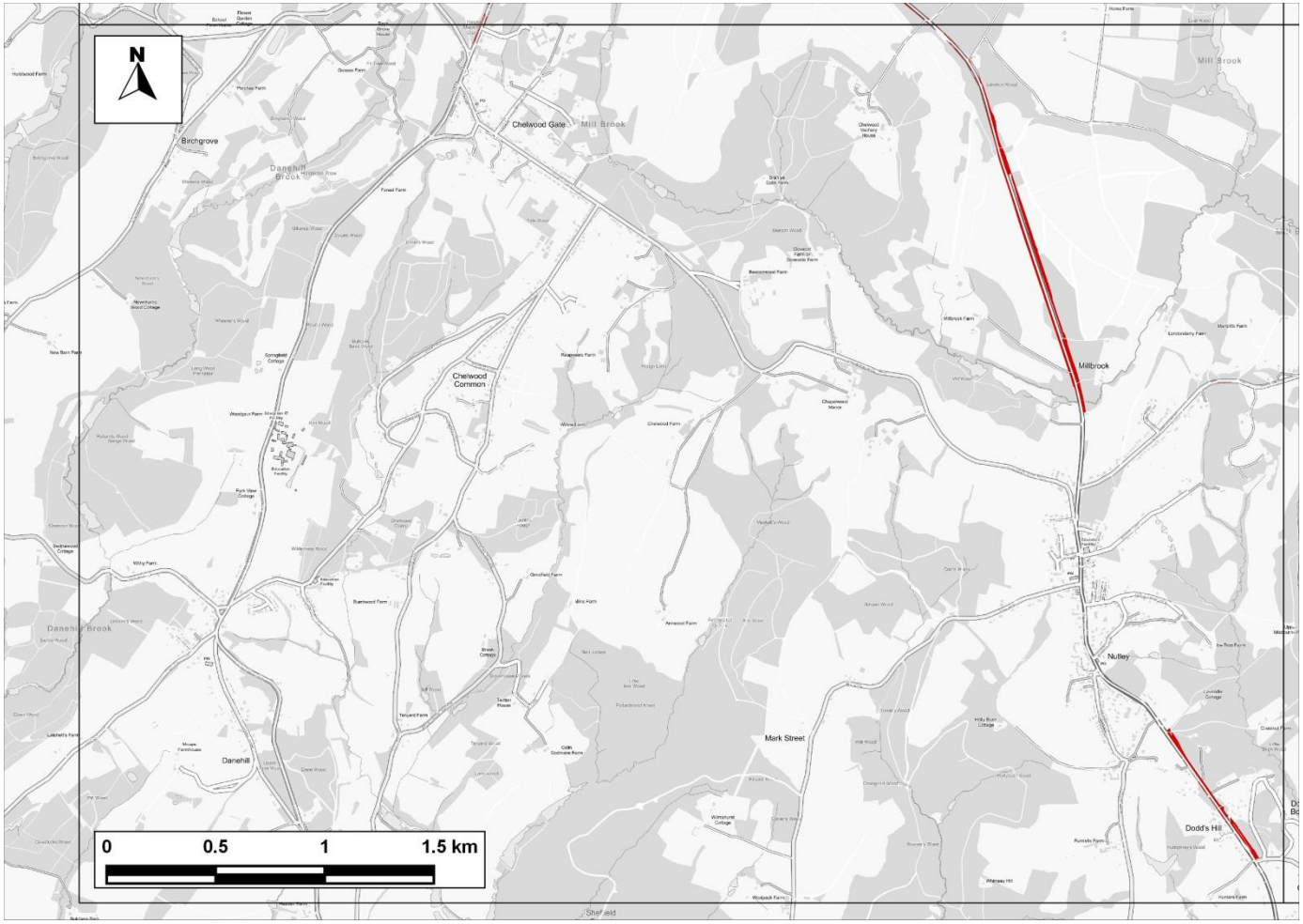


Figure A11.7: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A11.8: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southeast Section

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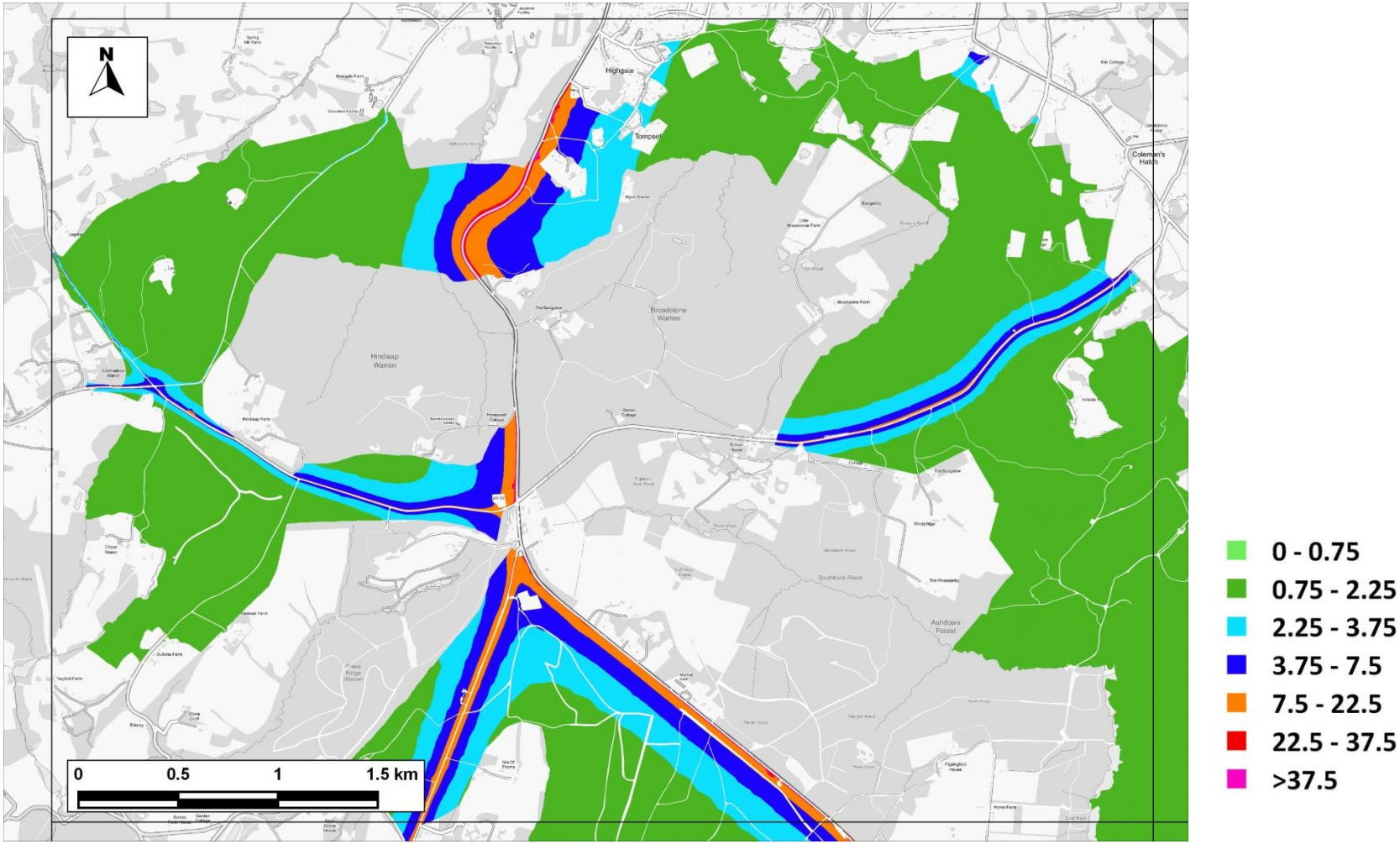


Figure A11.9: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario A (µg/m^3) – Northwest Section

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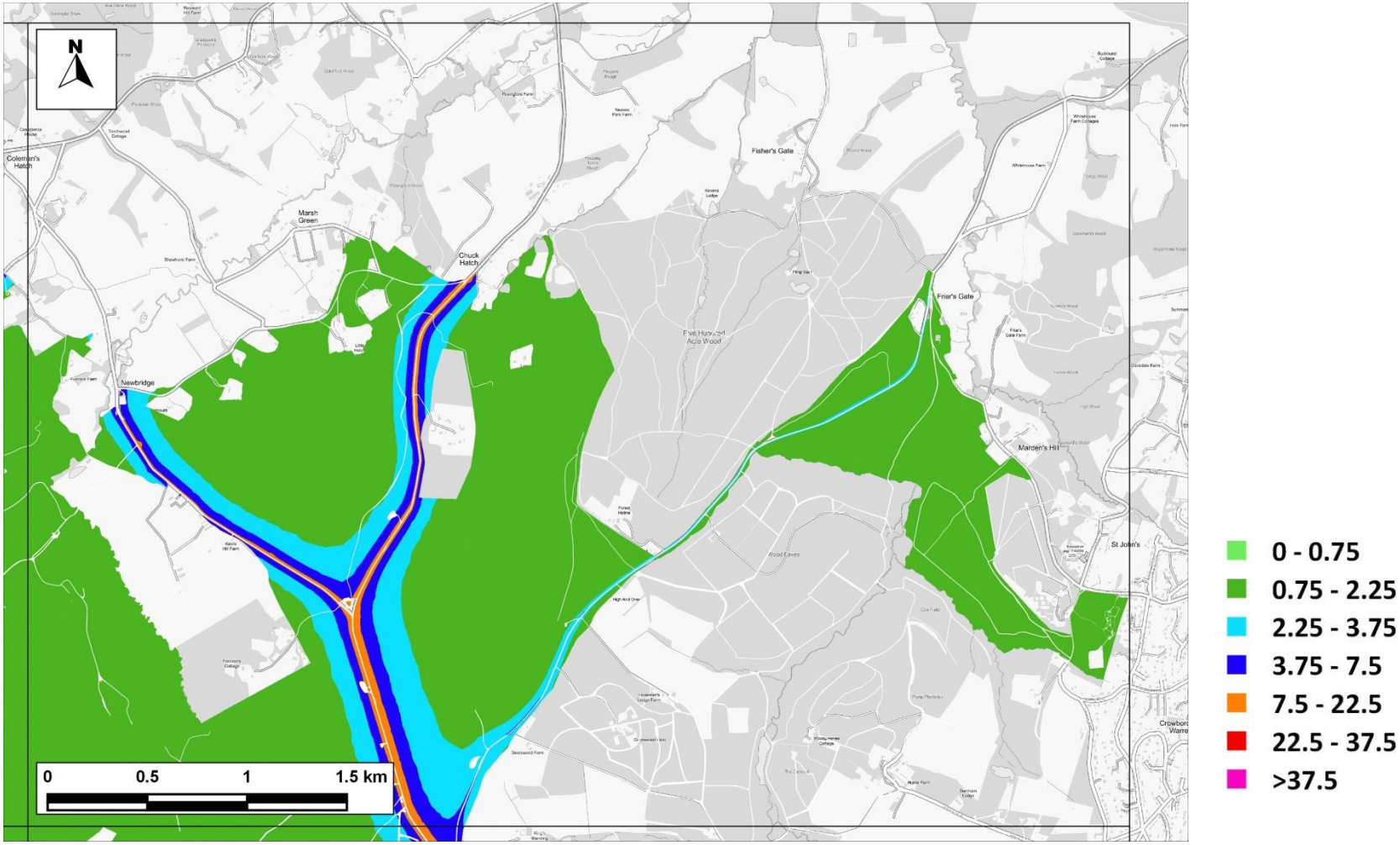


Figure A11.10: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario A (µg/m^3) – Northeast Section

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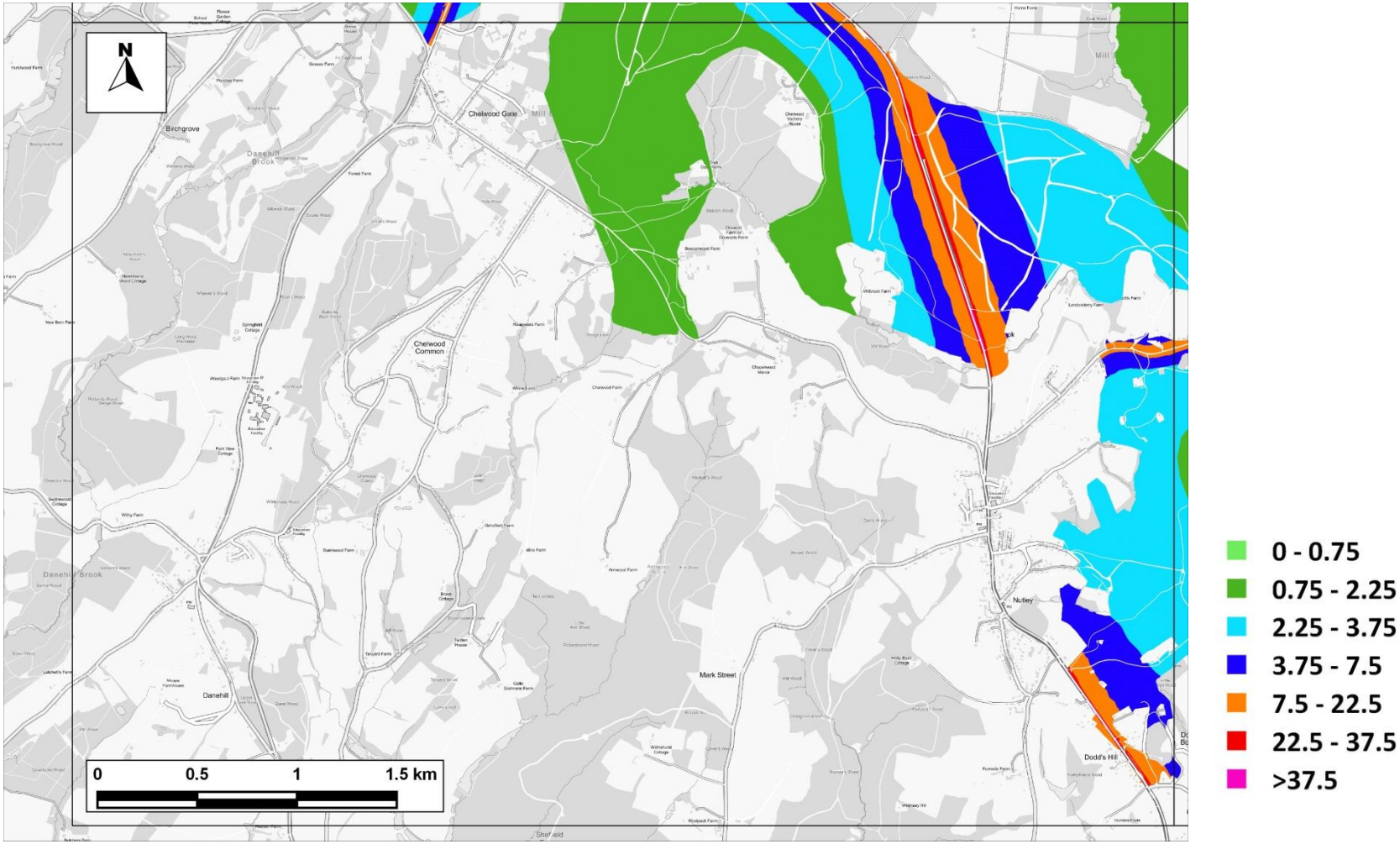


Figure A11.11: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario A (µg/m^3) – Southwest Section

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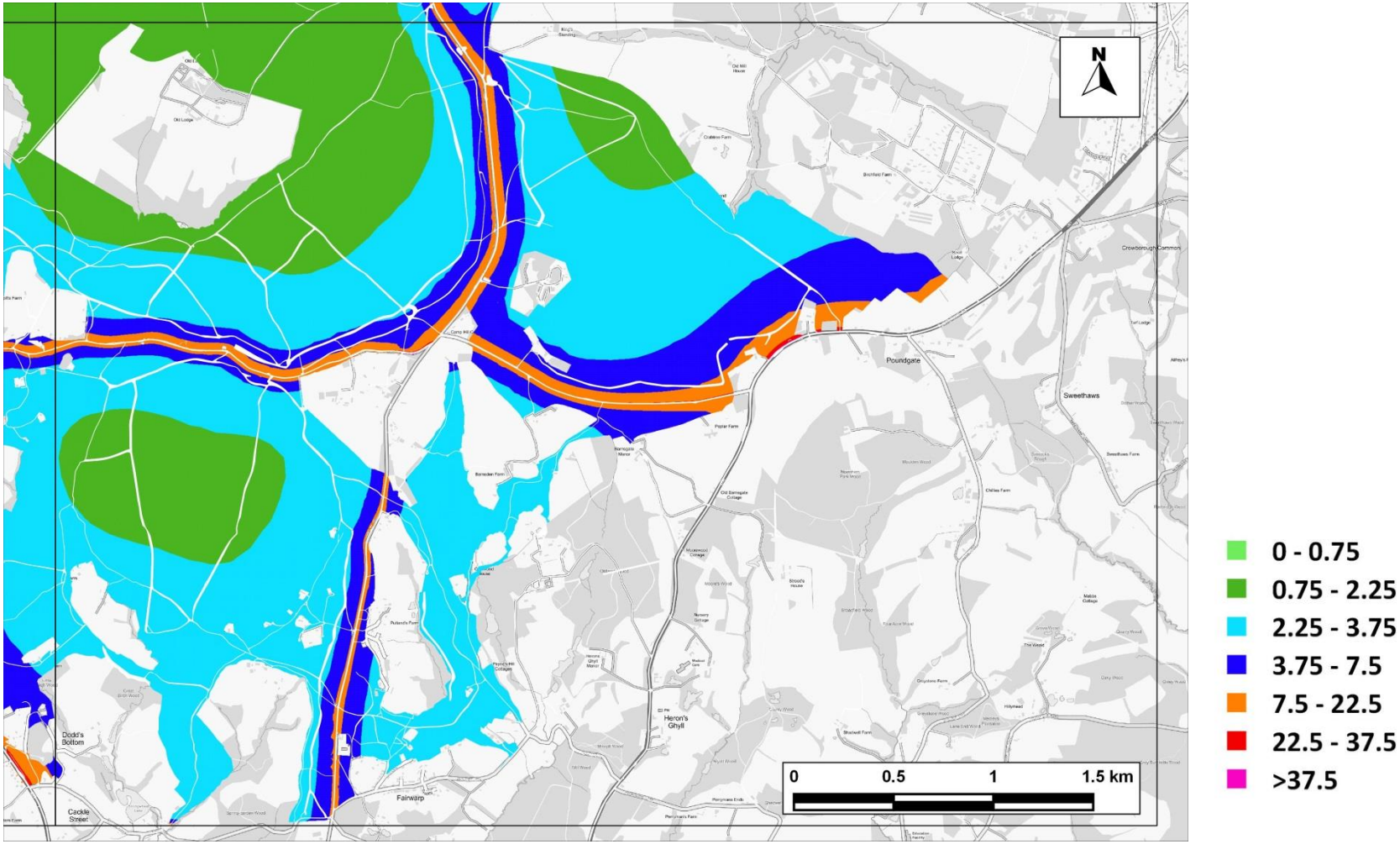


Figure A11.12: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario A (µg/m^3) – Southeast Section

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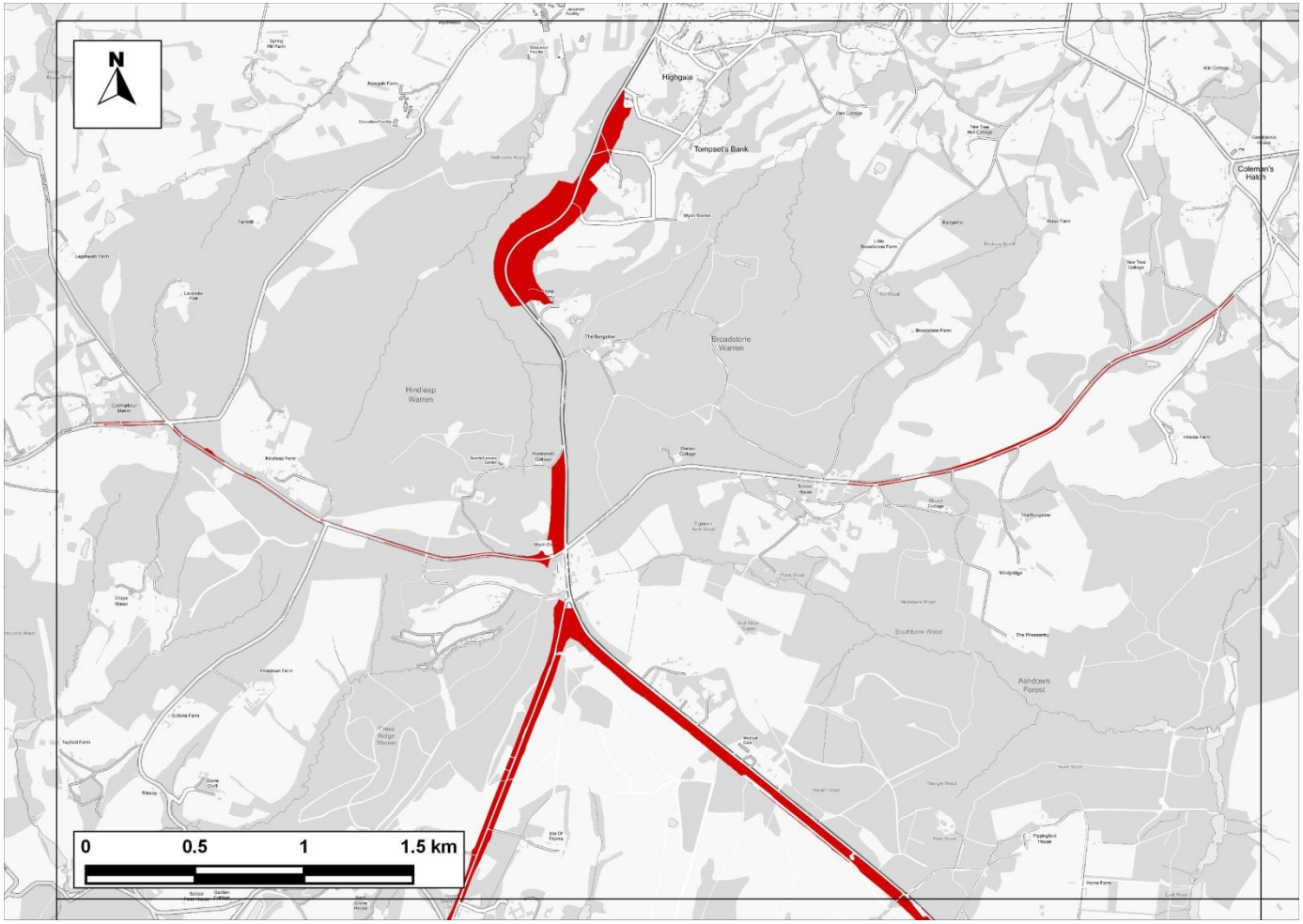


Figure A11.13: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northwest Section

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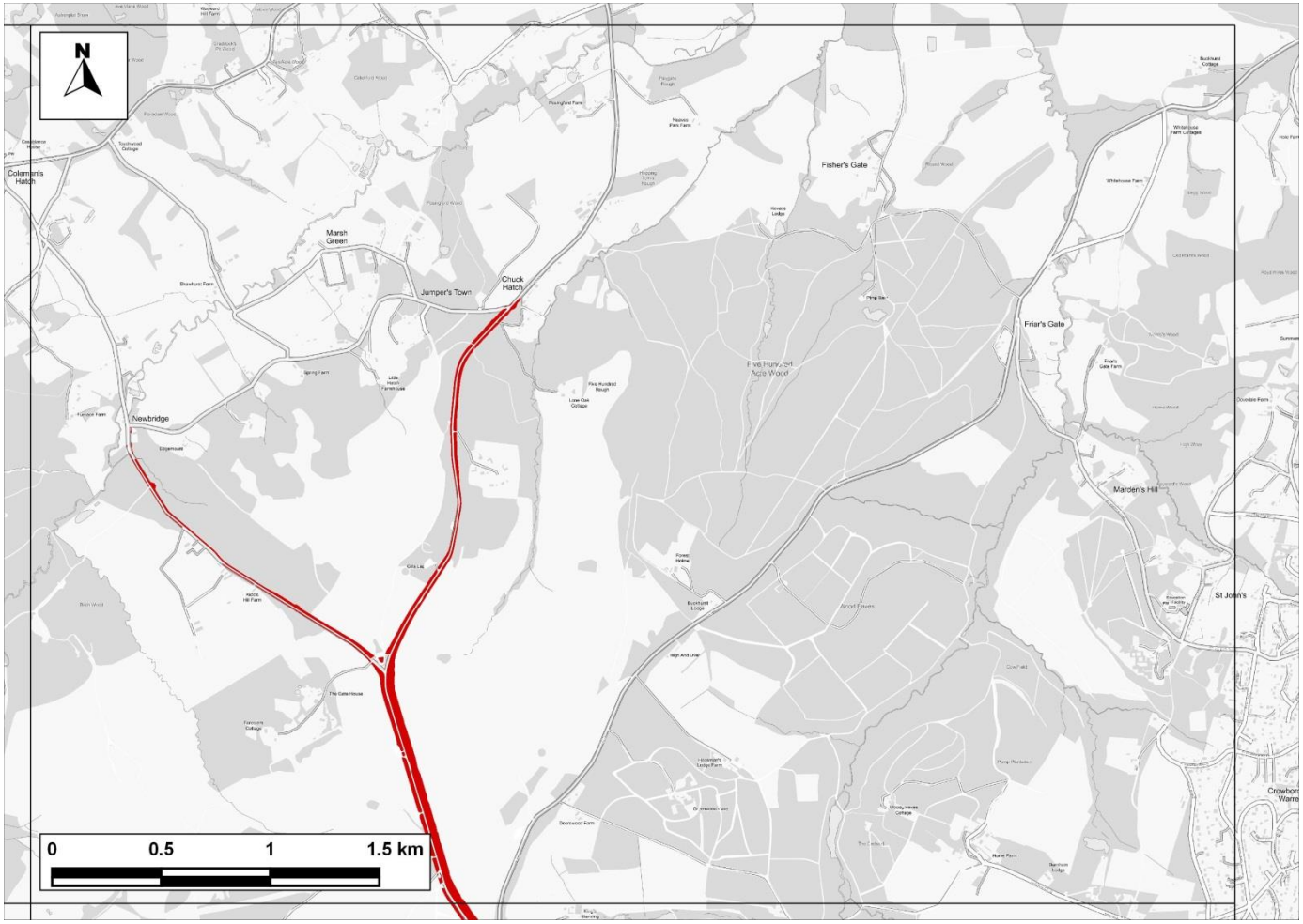


Figure A11.14: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northeast Section

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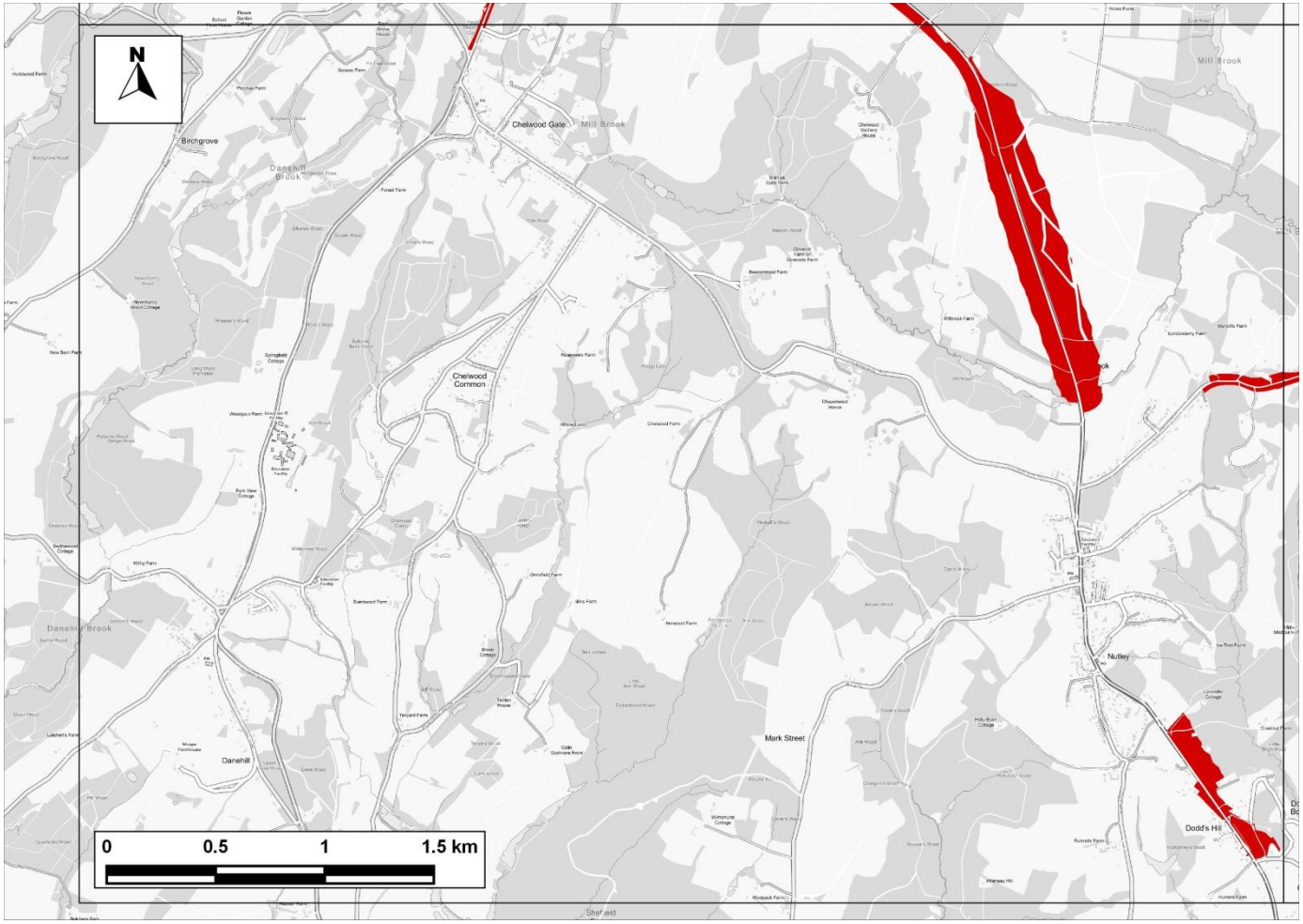


Figure A11.15: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southwest Section

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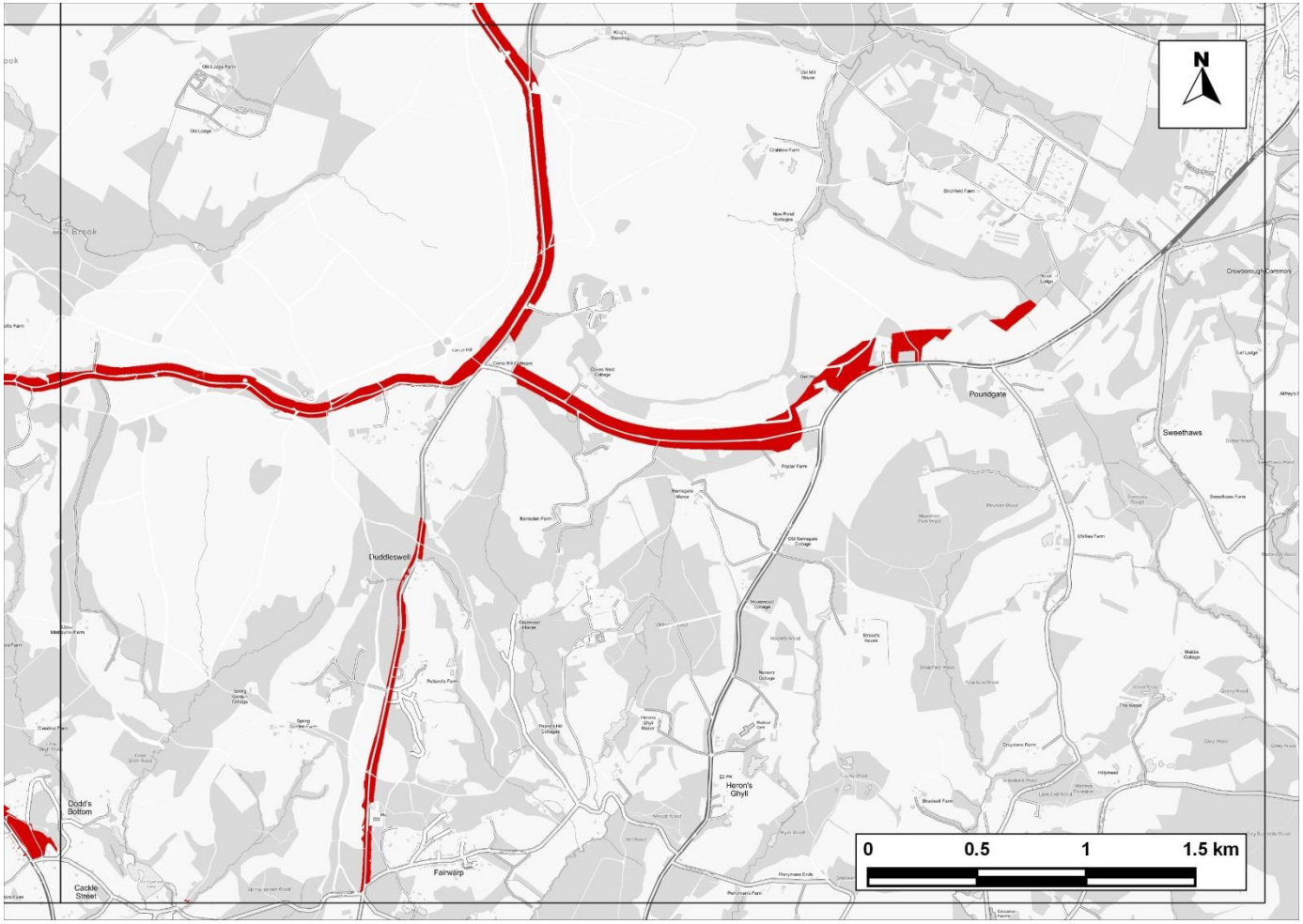


Figure A11.16: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southeast Section

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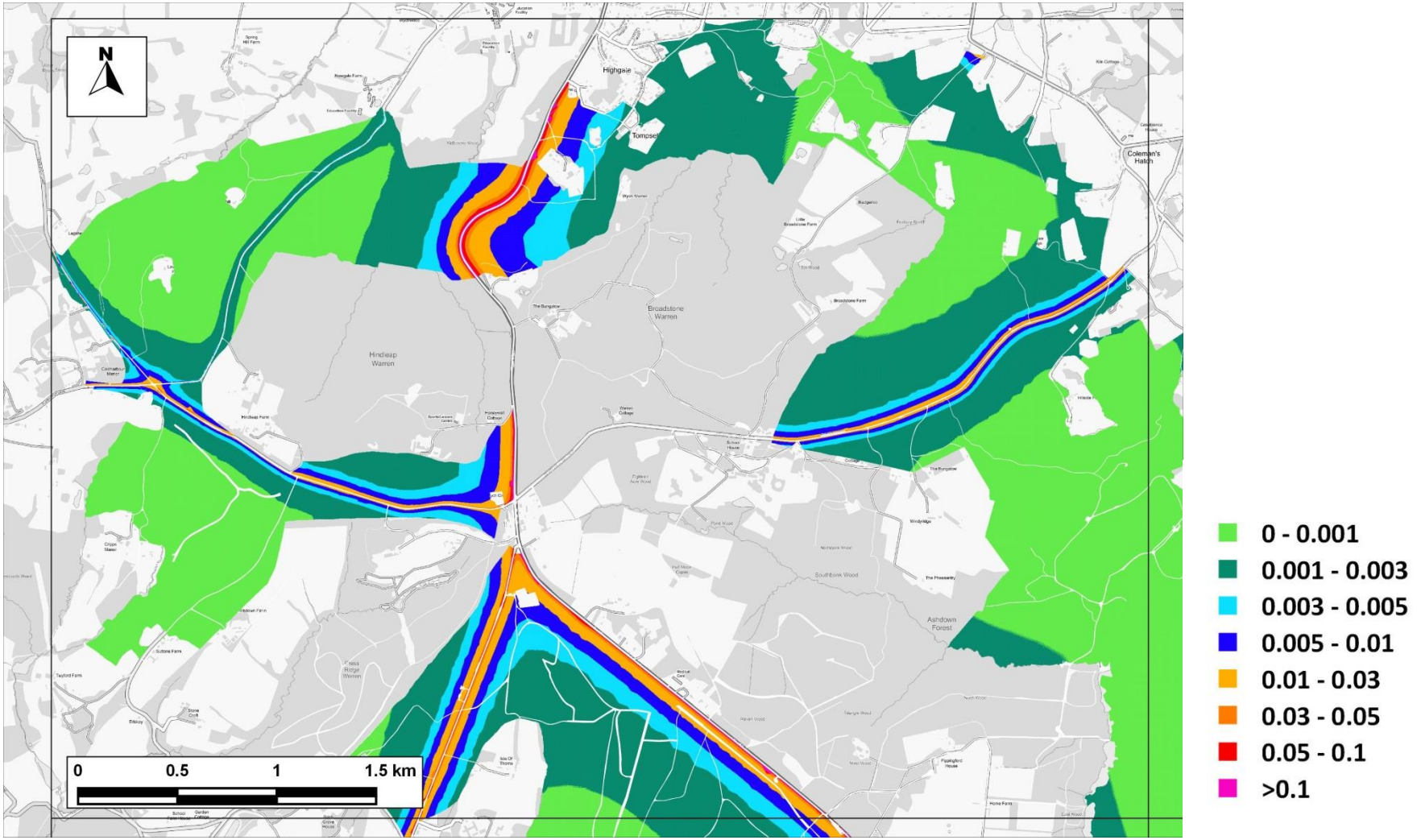


Figure A11.17: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No Growth'(µg/m^3) – Northwest Section

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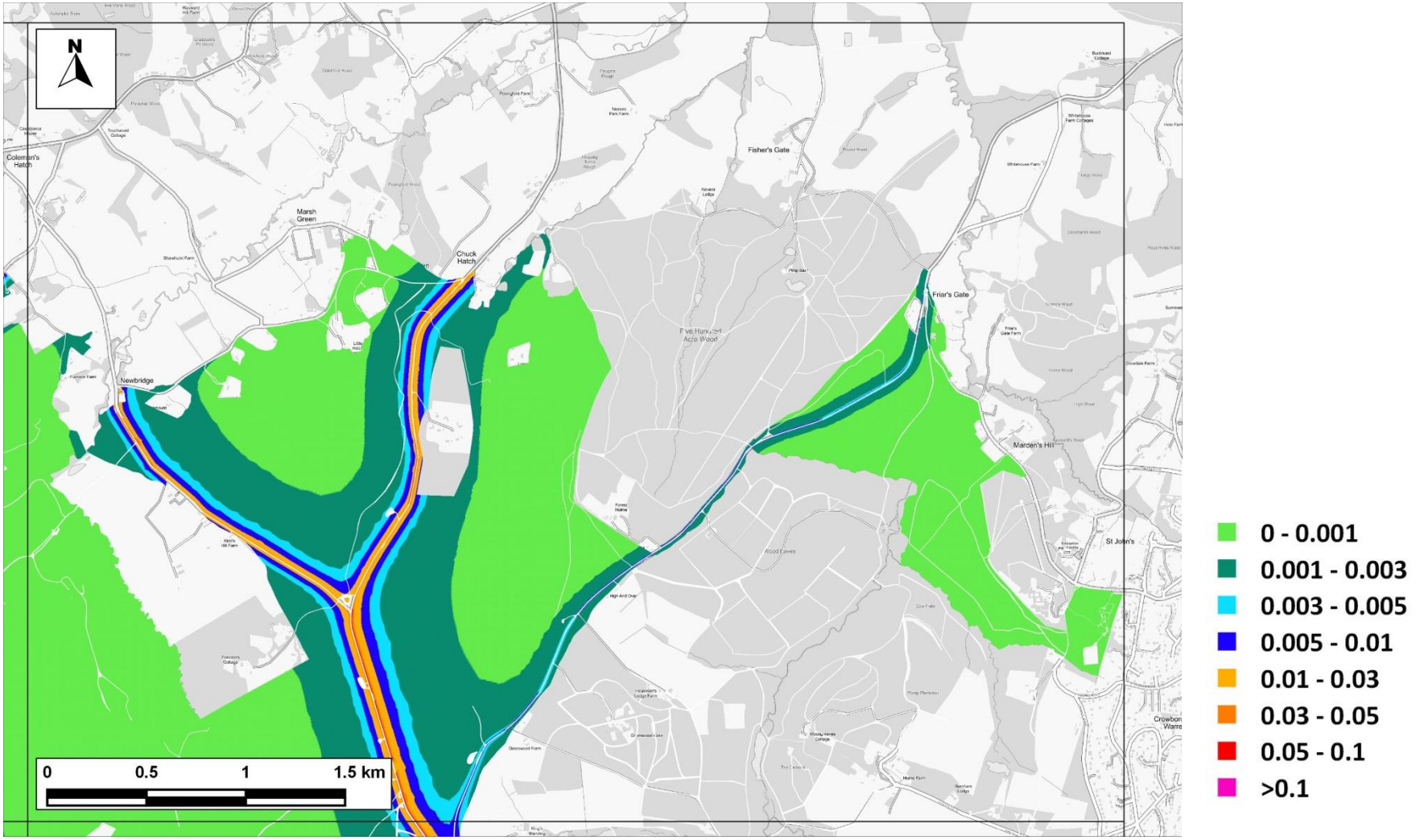


Figure A11.18: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No Growth'(µg/m^3) – Northeast Section

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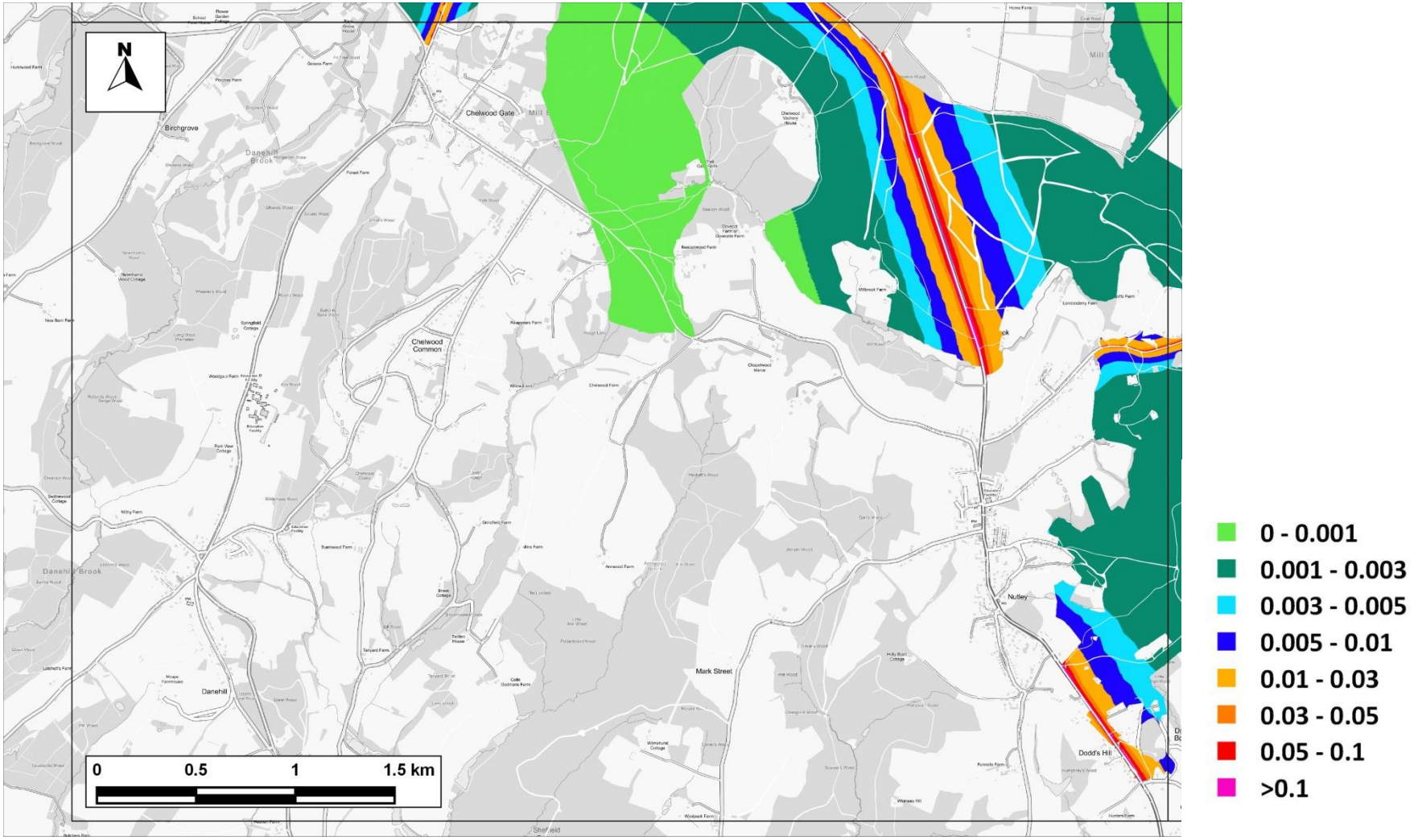


Figure A11.19: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No Growth'(µg/m^3)– Southwest Section

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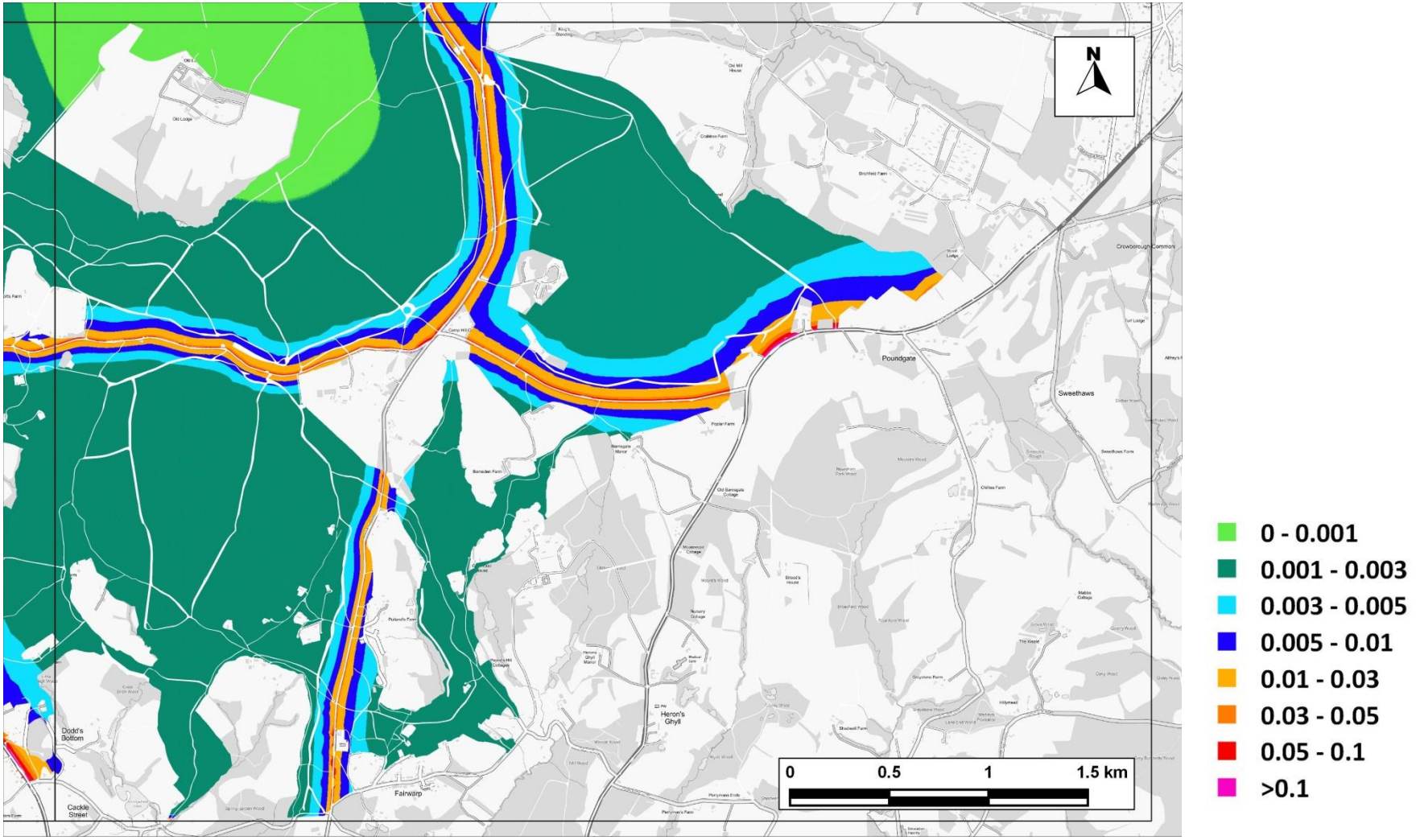


Figure A11.20: Change in Predicted Annual Mean NH_3 Comparing 'With Plan' to 'No Growth'(µg/m^3) – Southeast Section

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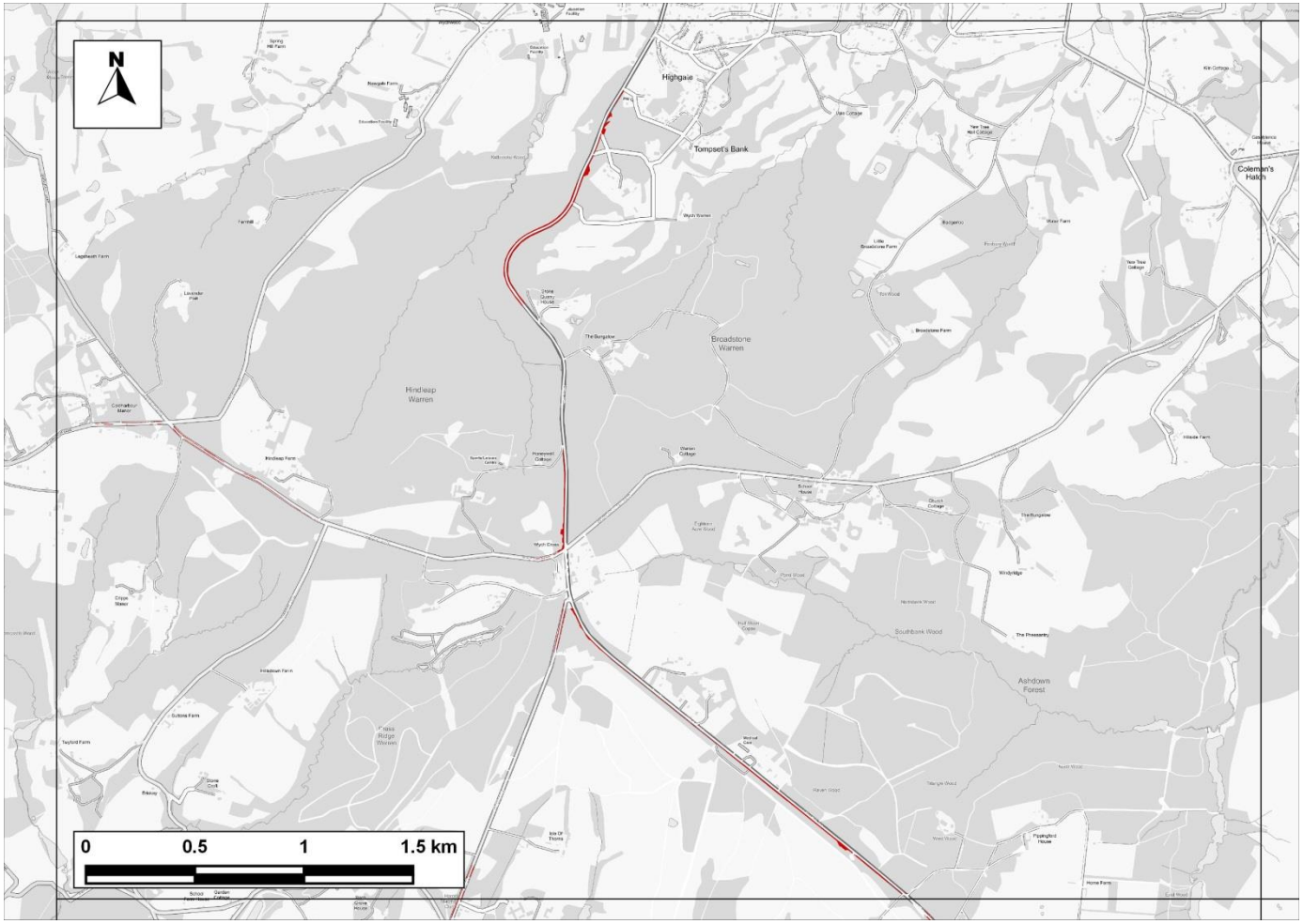


Figure A11.21: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Northwest Section.

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Figure A11.22: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Northeast Section.

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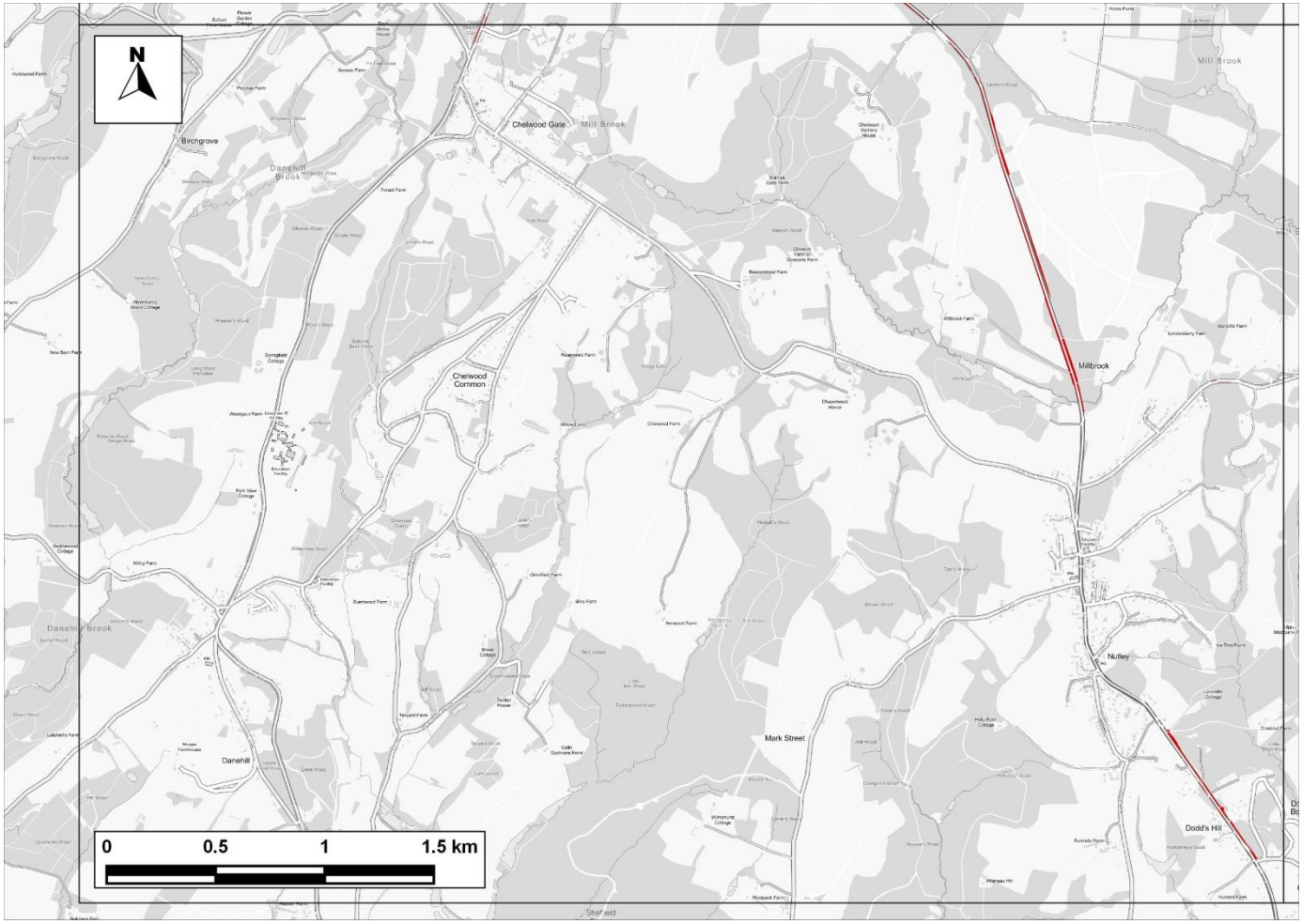


Figure A11.23: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Southwest Section.

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Figure A11.24: Areas in SAC Predicted to Experience an Increase in Annual Mean NH_3 Concentrations Greater than 1% of the 1 µg/m^3 Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Southeast Section.

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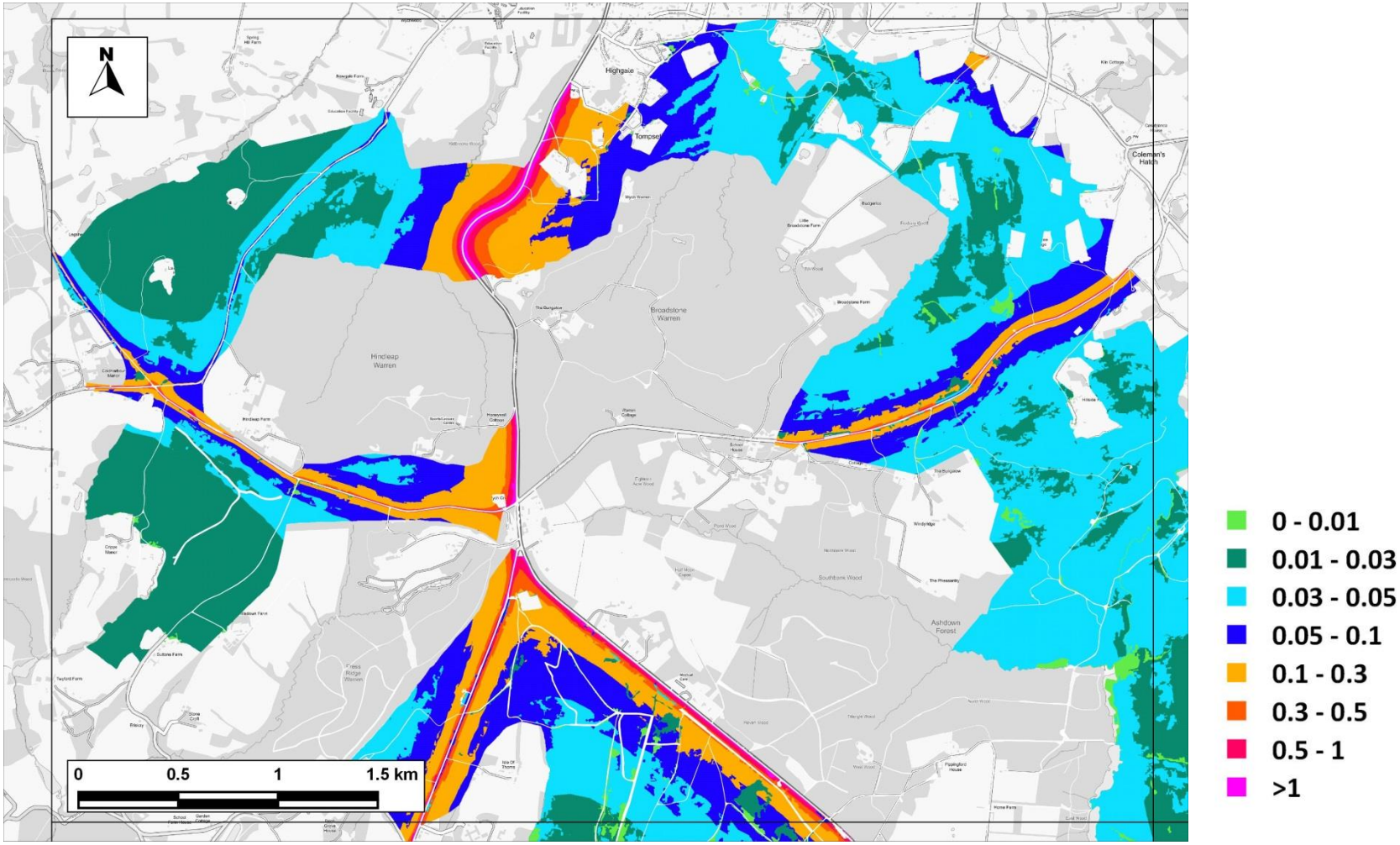


Figure A11.25: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northwest Section

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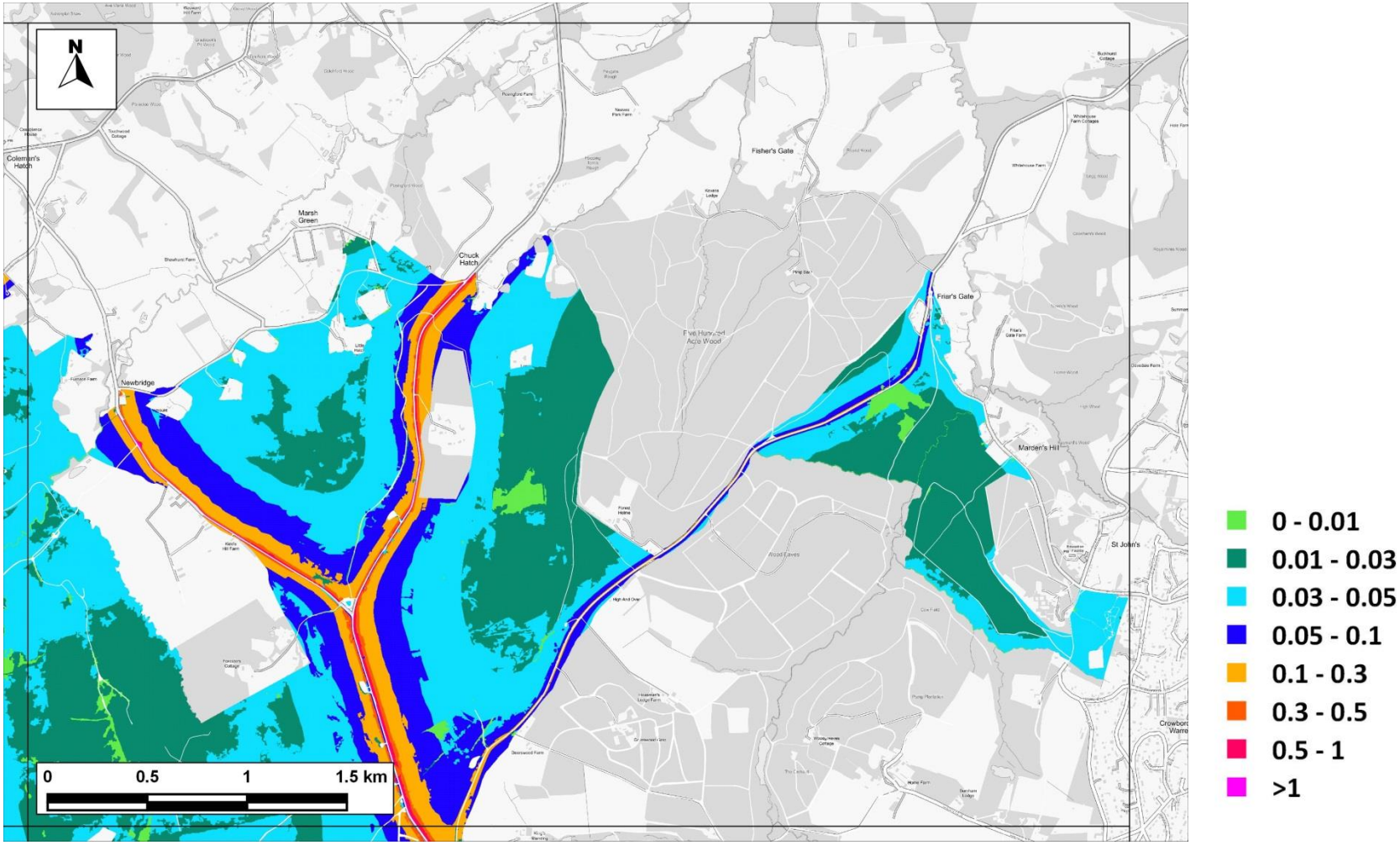


Figure A11.26: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northeast Section

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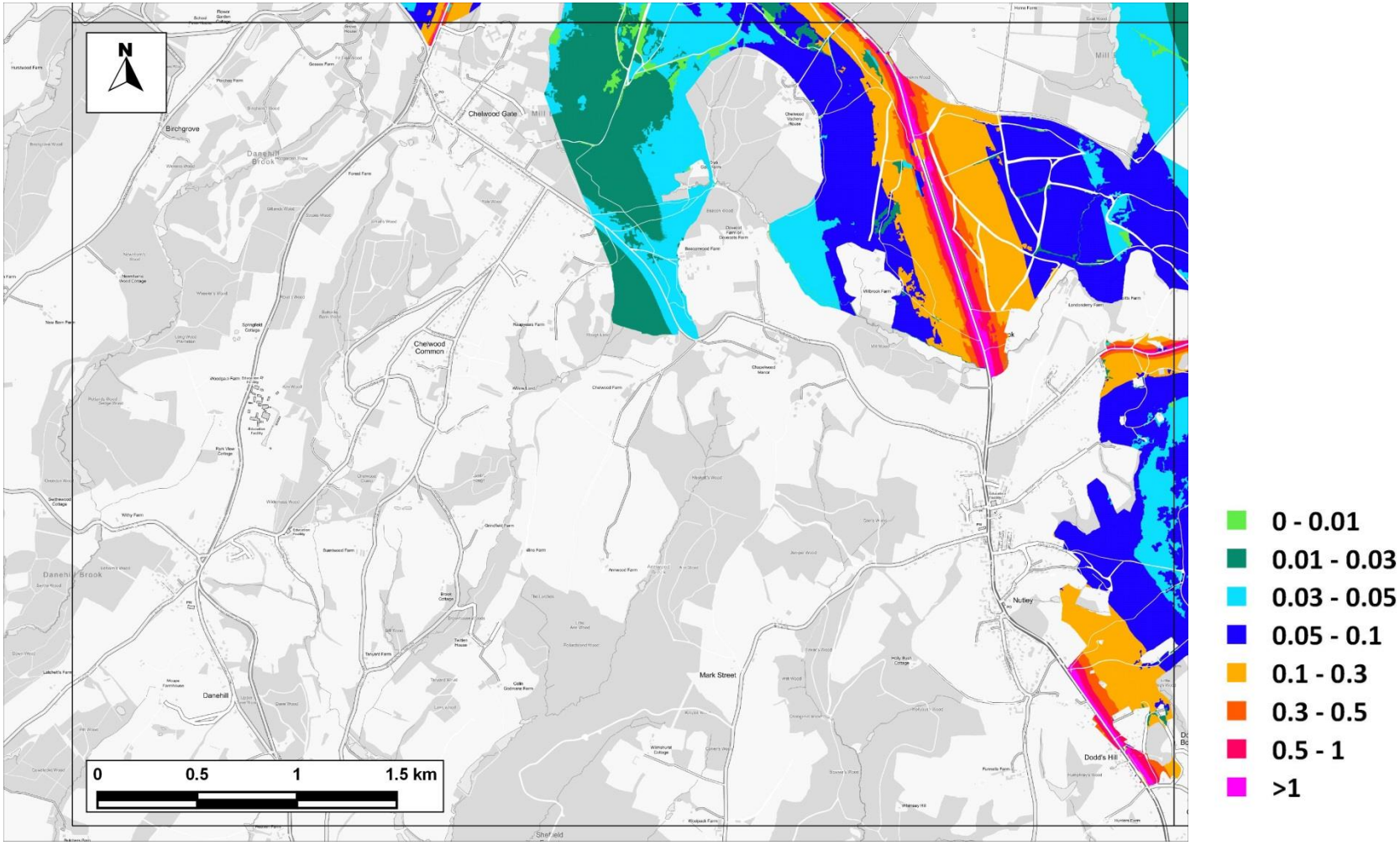


Figure A11.27: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southwest Section

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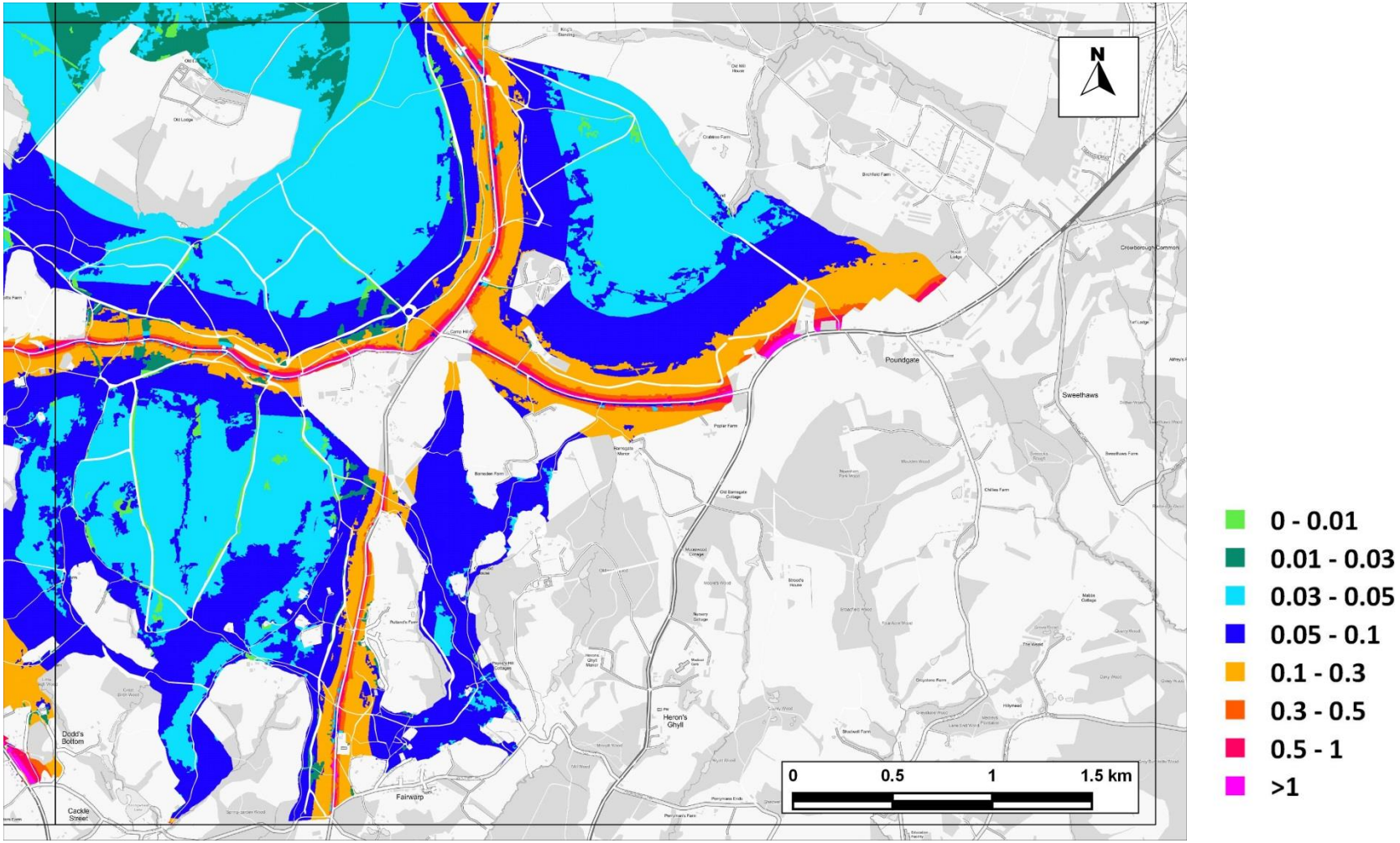


Figure A11.28: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.29: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Northwest Section

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Figure A11.30: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Northeast Section

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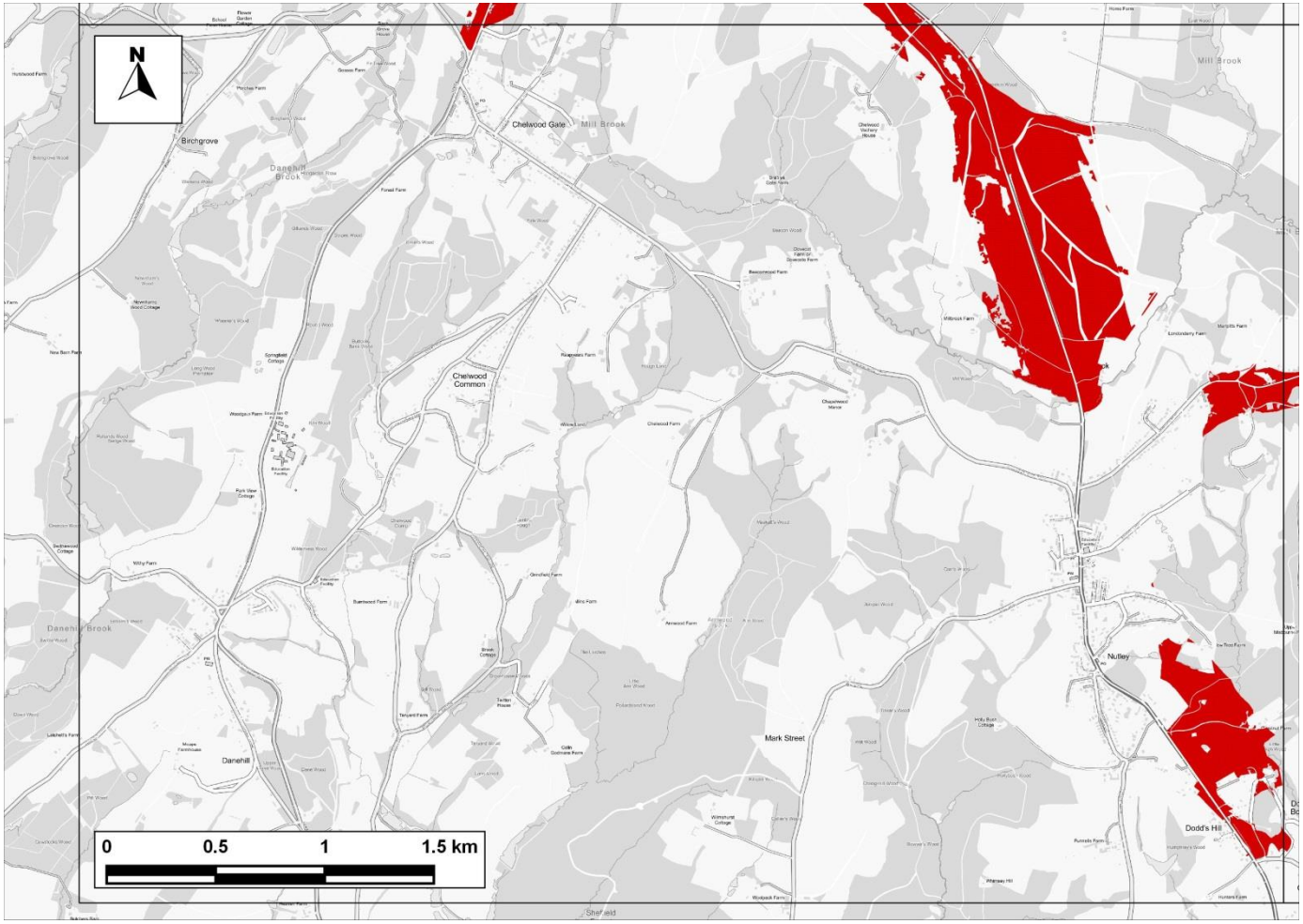


Figure A11.31: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Southwest Section

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Figure A11.32 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Southeast Section

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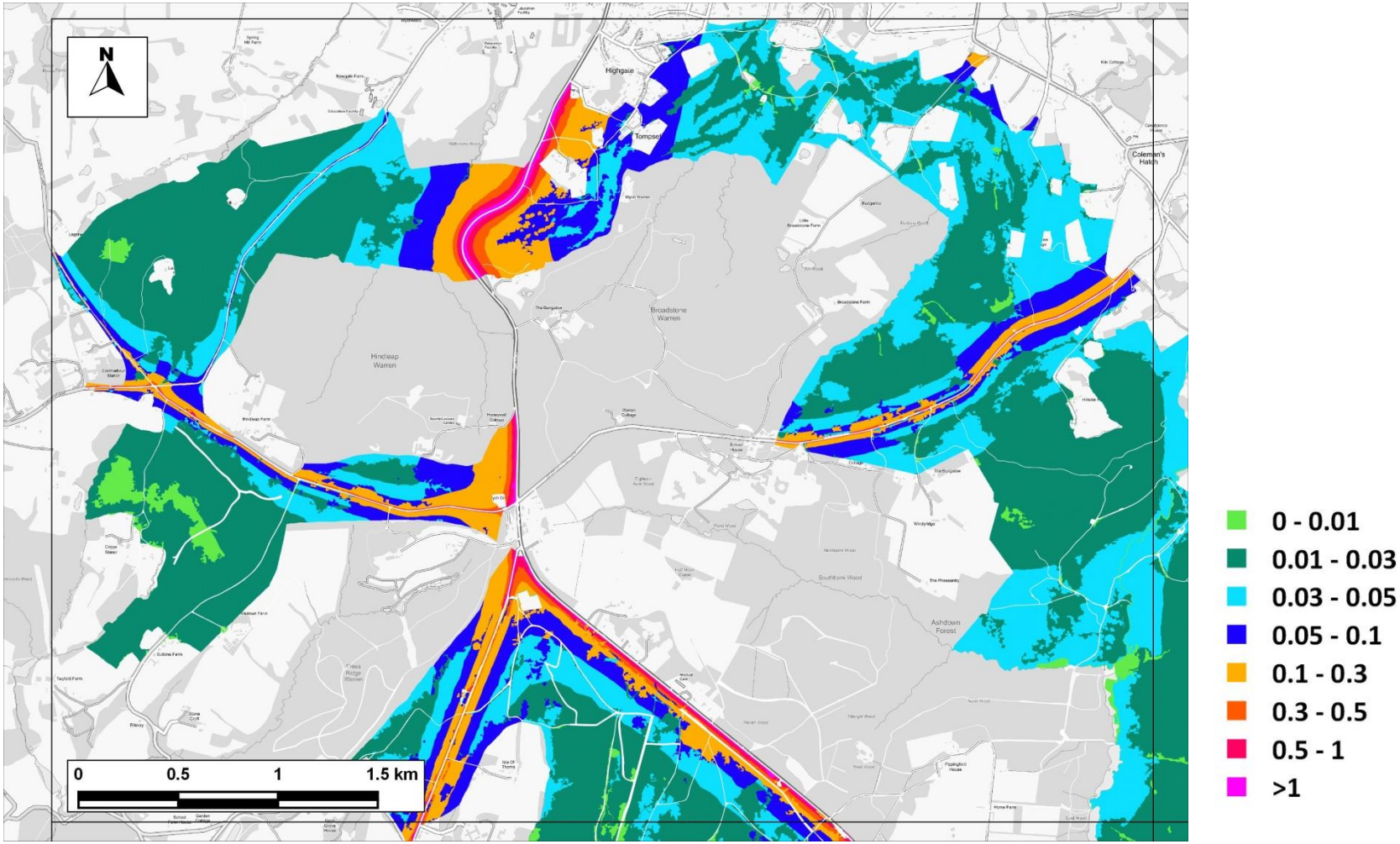


Figure A11.33: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northwest Section

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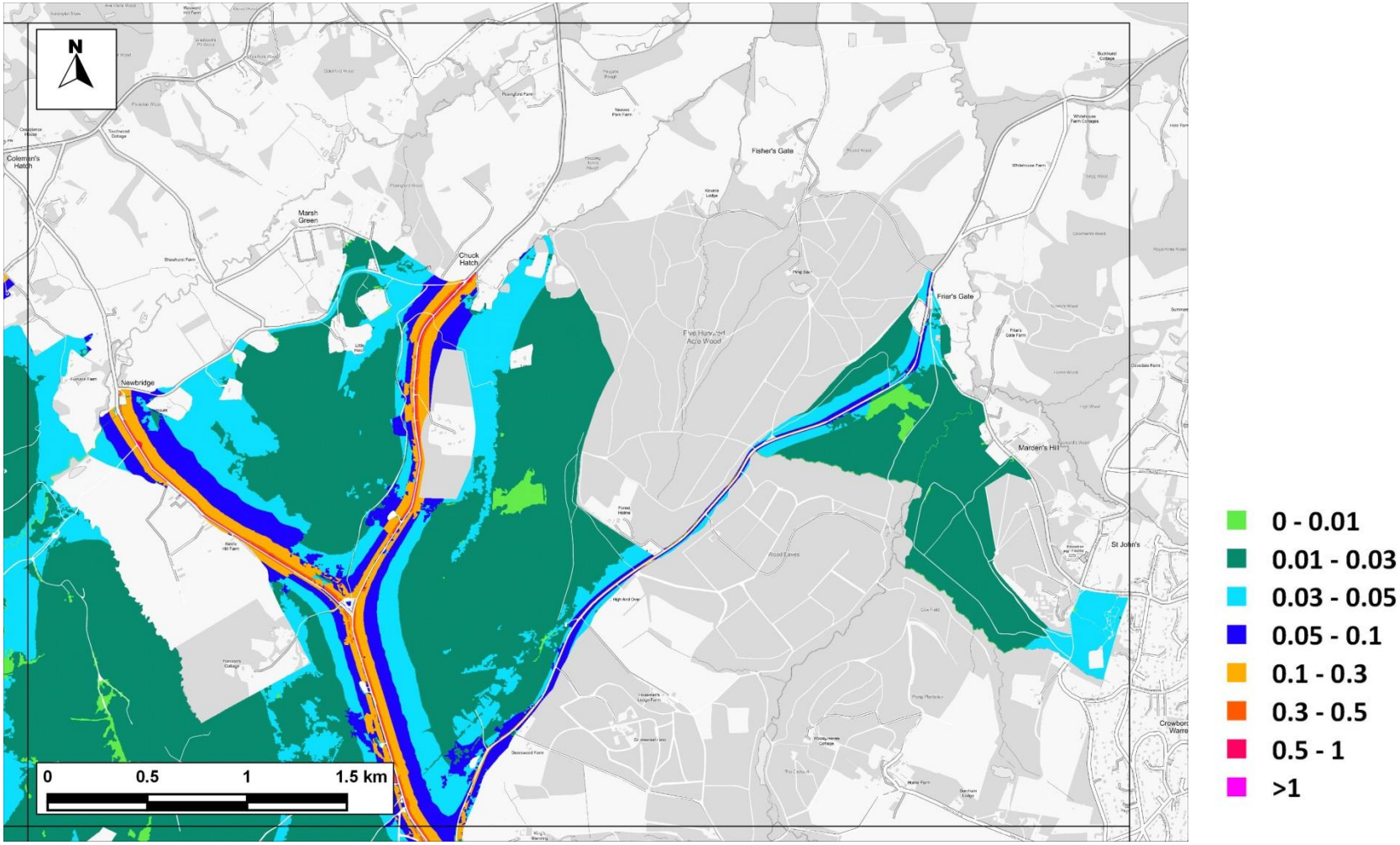


Figure A11.34: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northeast Section

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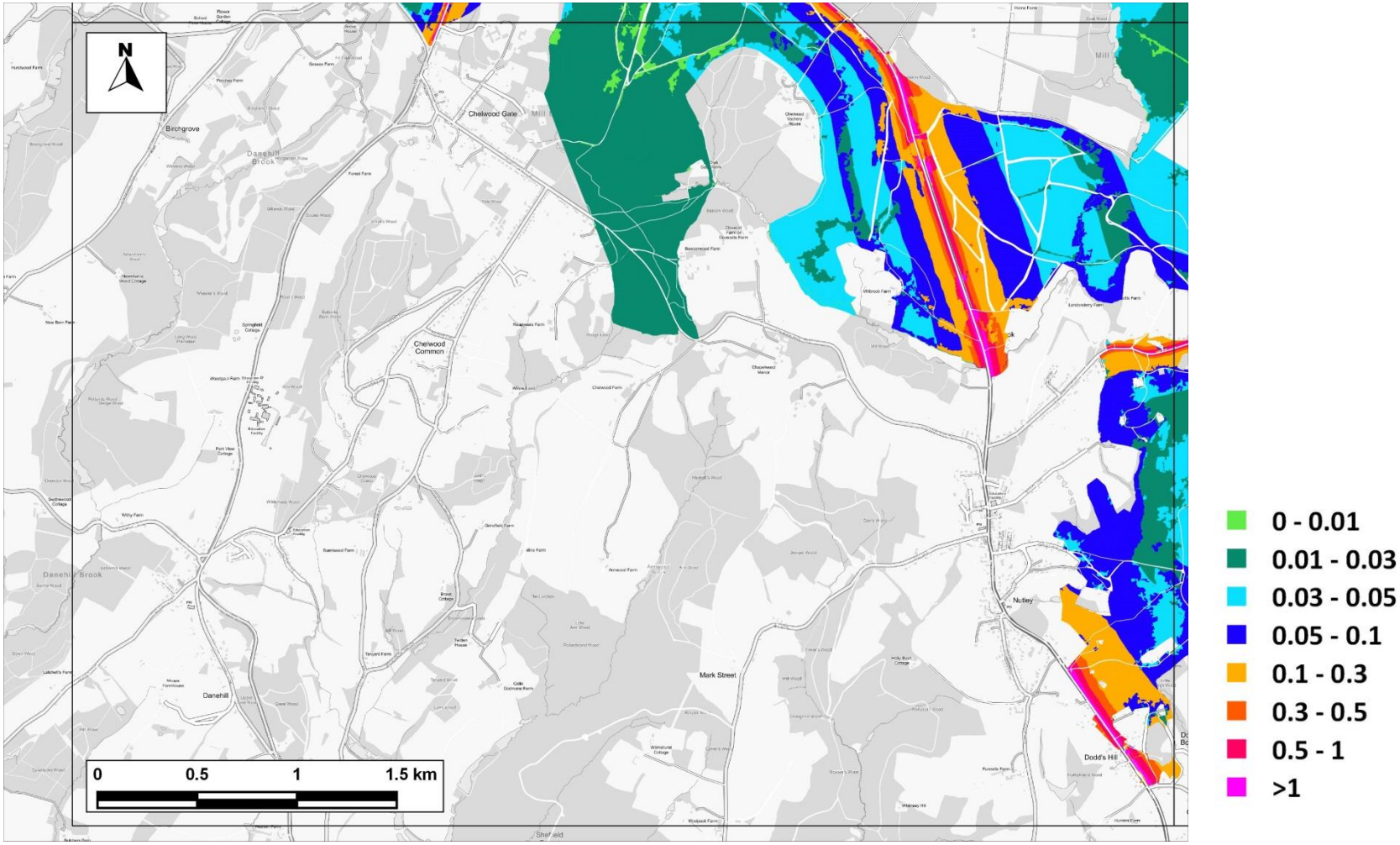


Figure A11.35: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southwest Section

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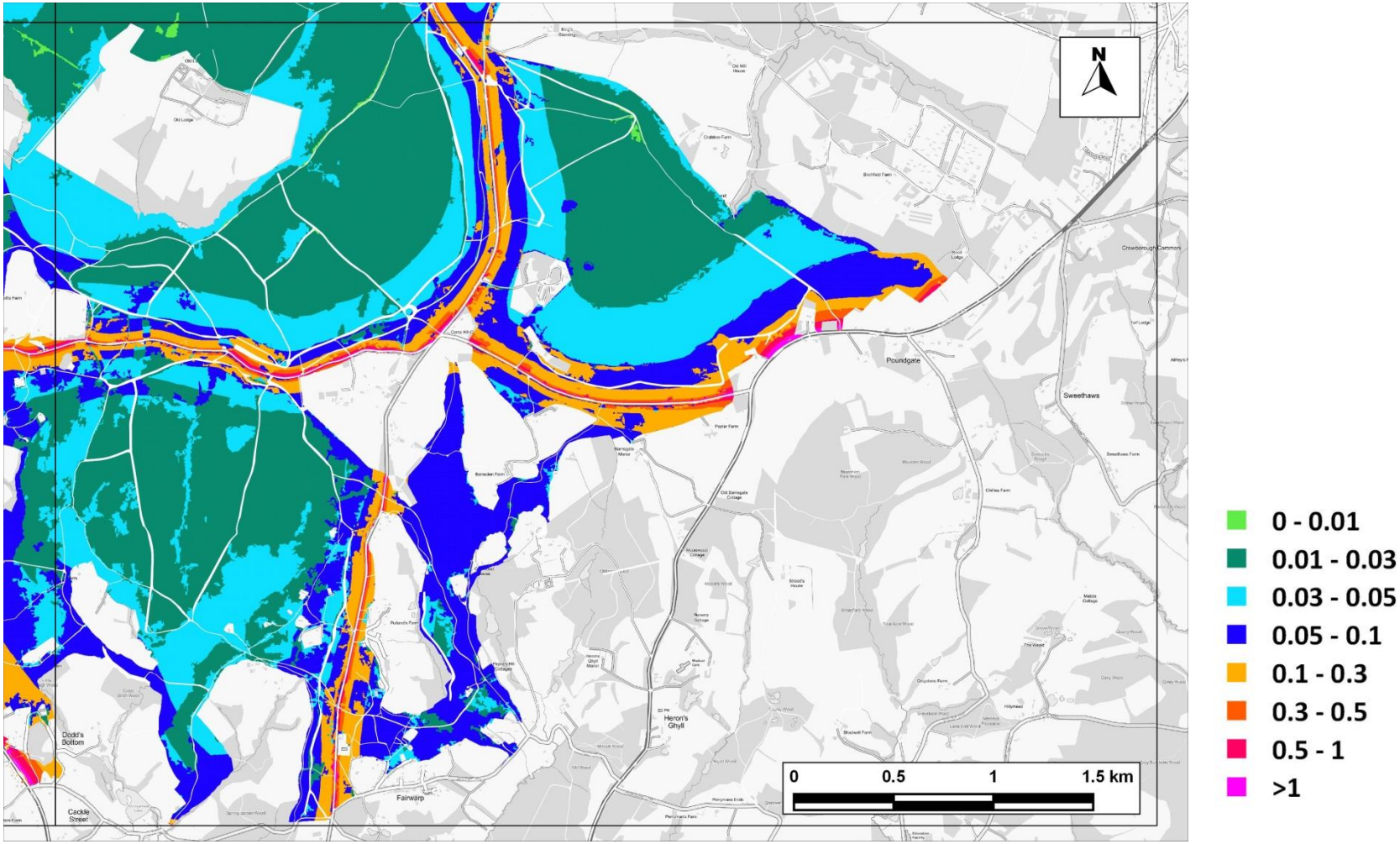


Figure A11.36: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southeast Section

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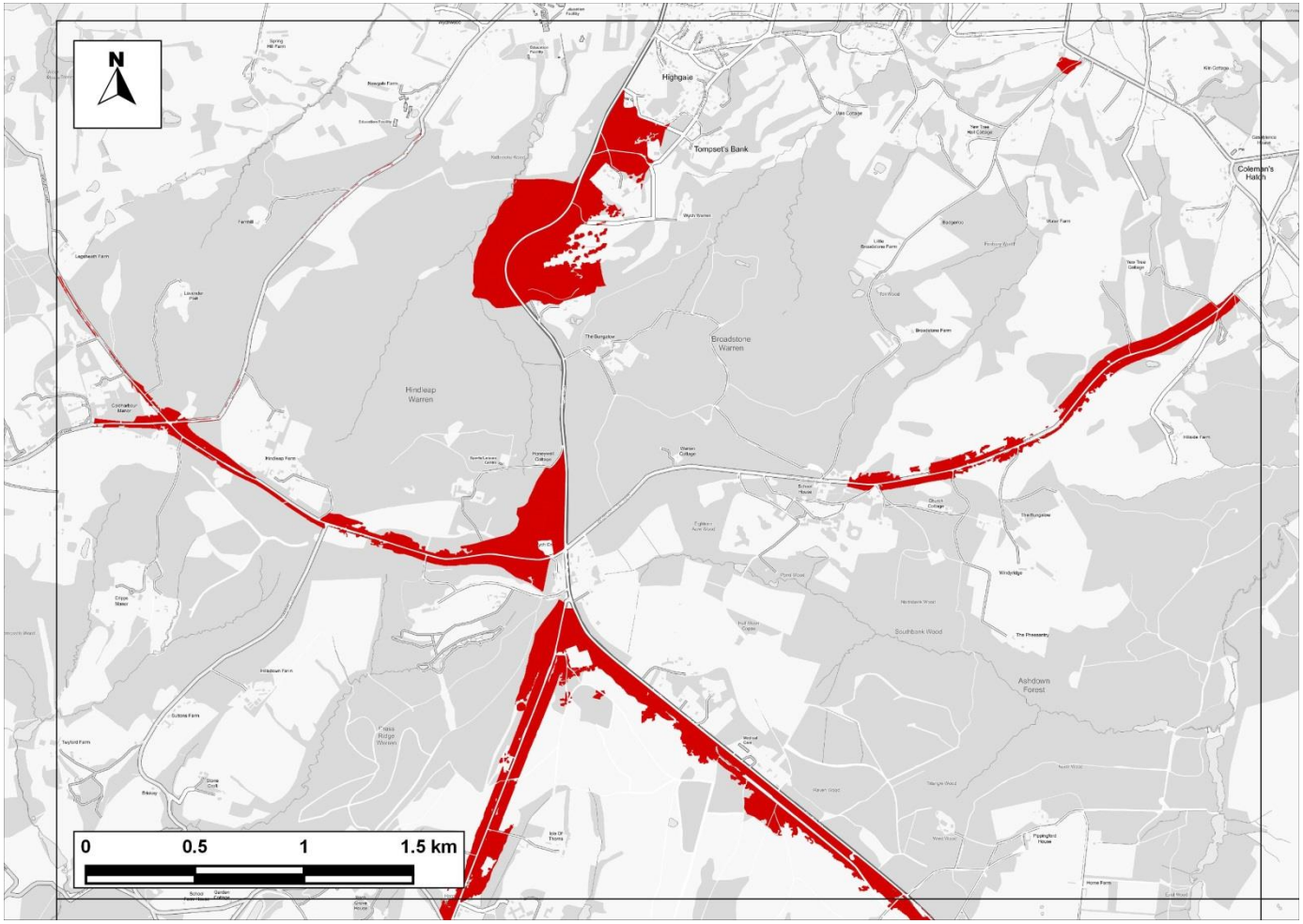


Figure A11.37: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Northwest Section

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Figure A11.38: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Northeast Section

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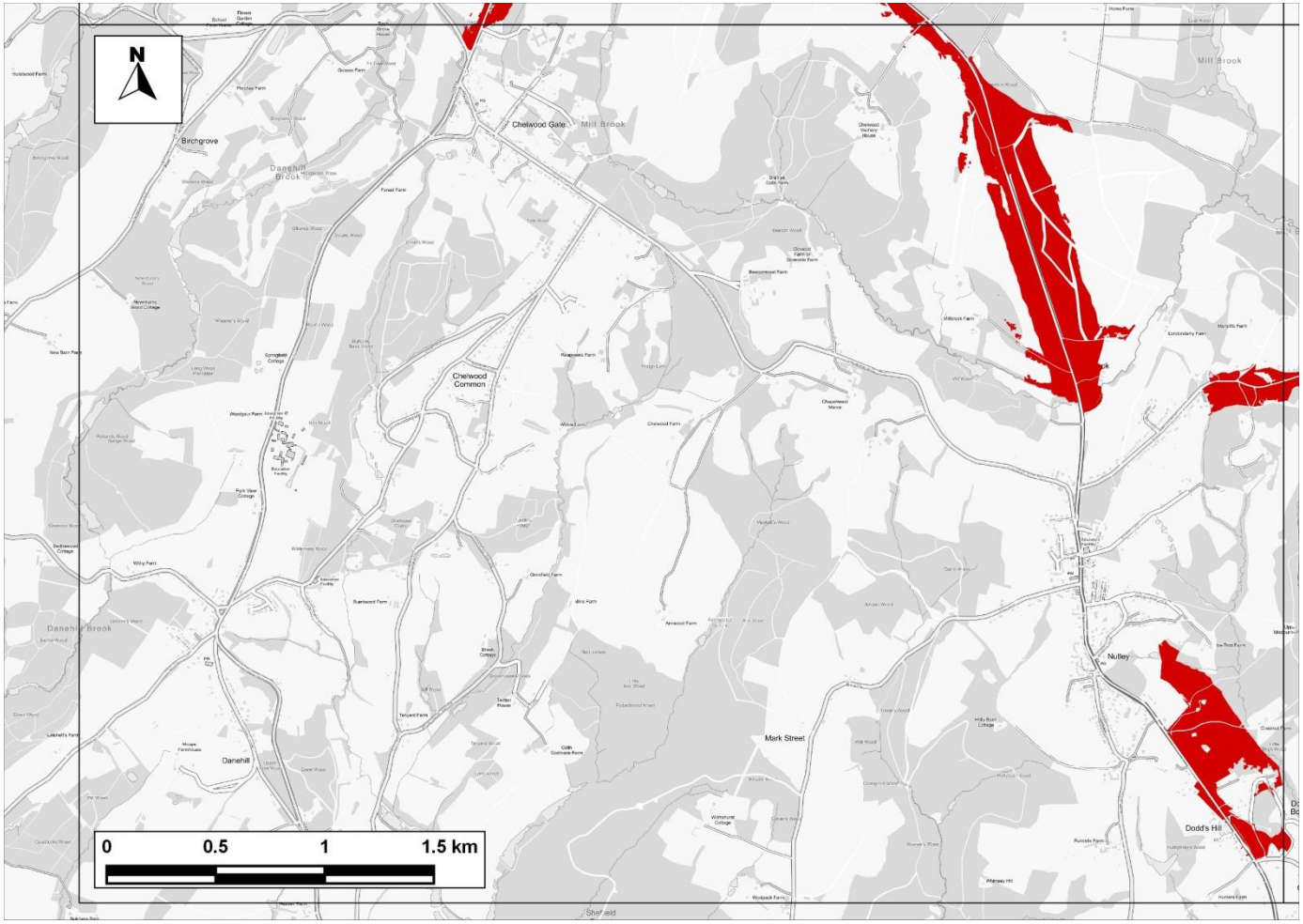


Figure A11.39: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Southwest Section

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Figure A11.40 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Southeast Section

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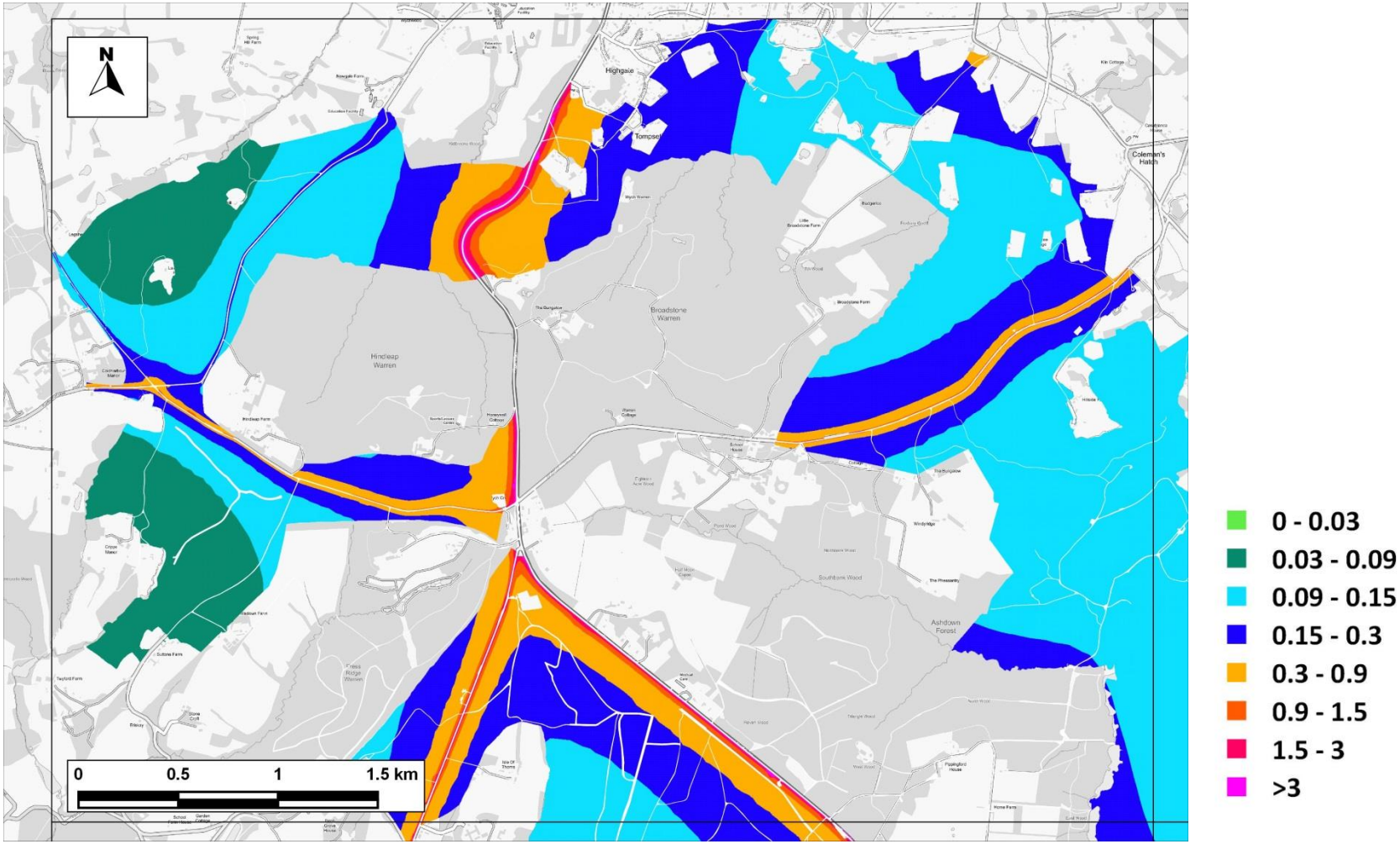


Figure A11.41: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario B (µg/m^3) – Northwest Section

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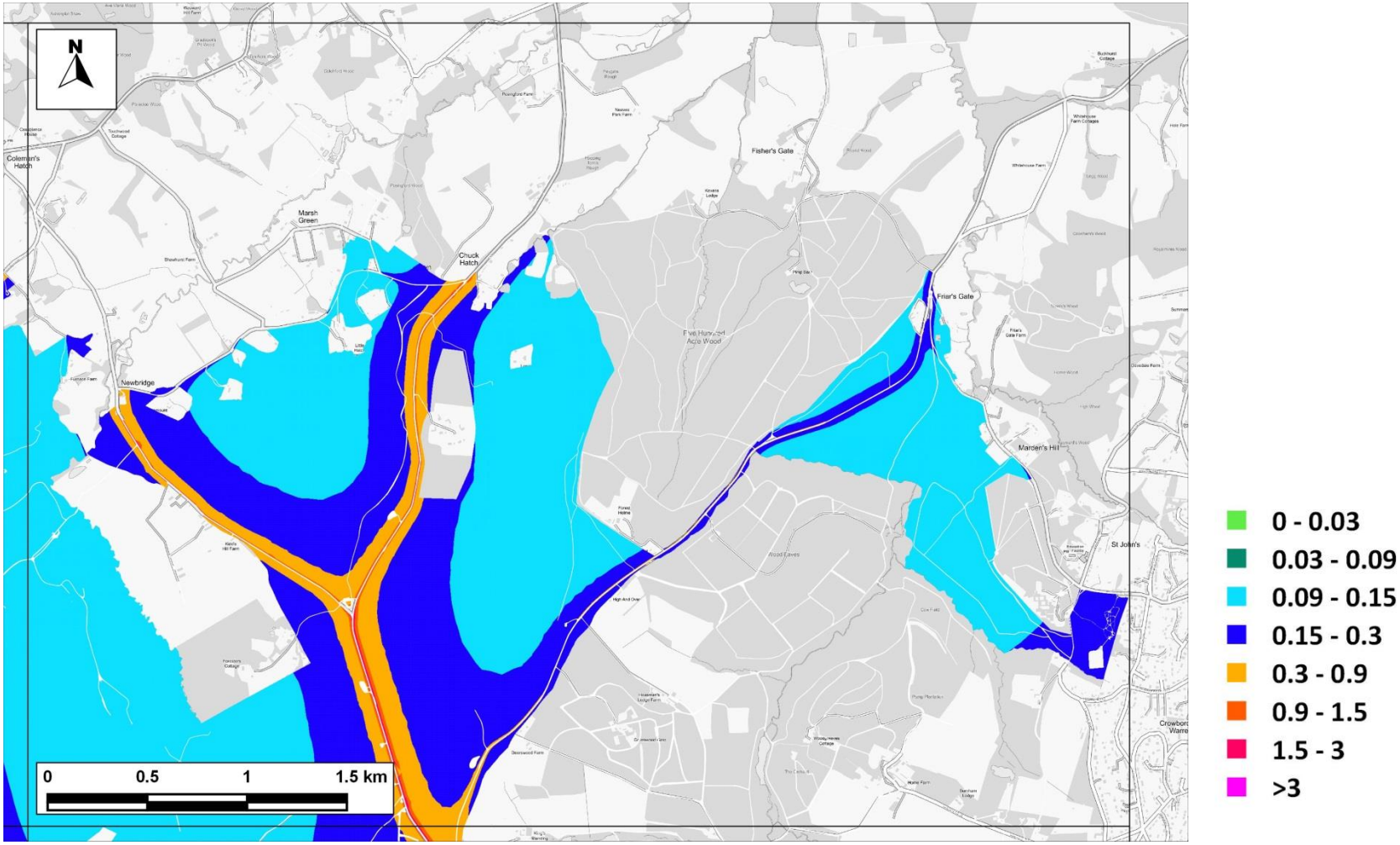


Figure A11.42: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario B (µg/m^3) – Northeast Section

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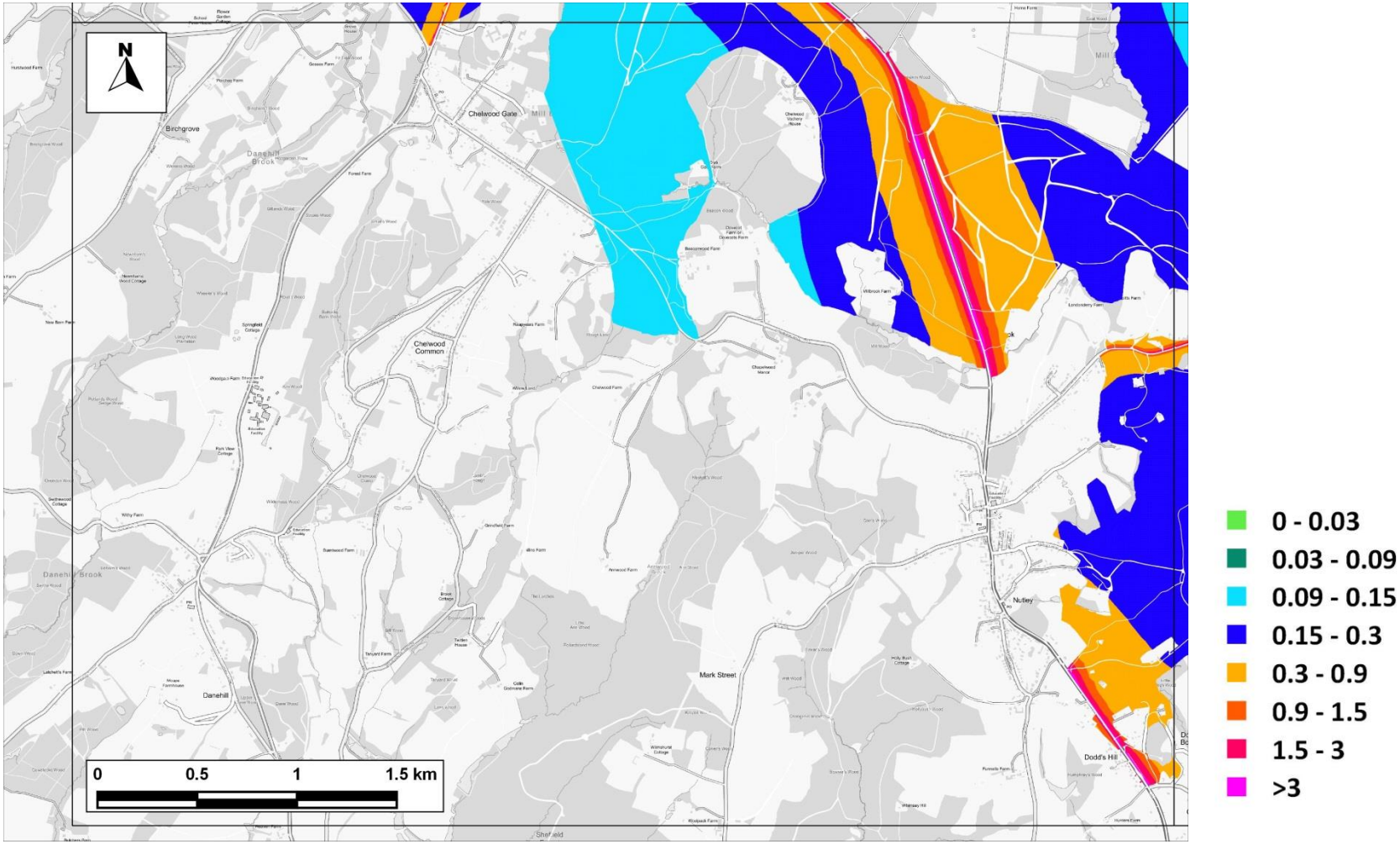


Figure A11.43: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario B (µg/m^3)– Southwest Section

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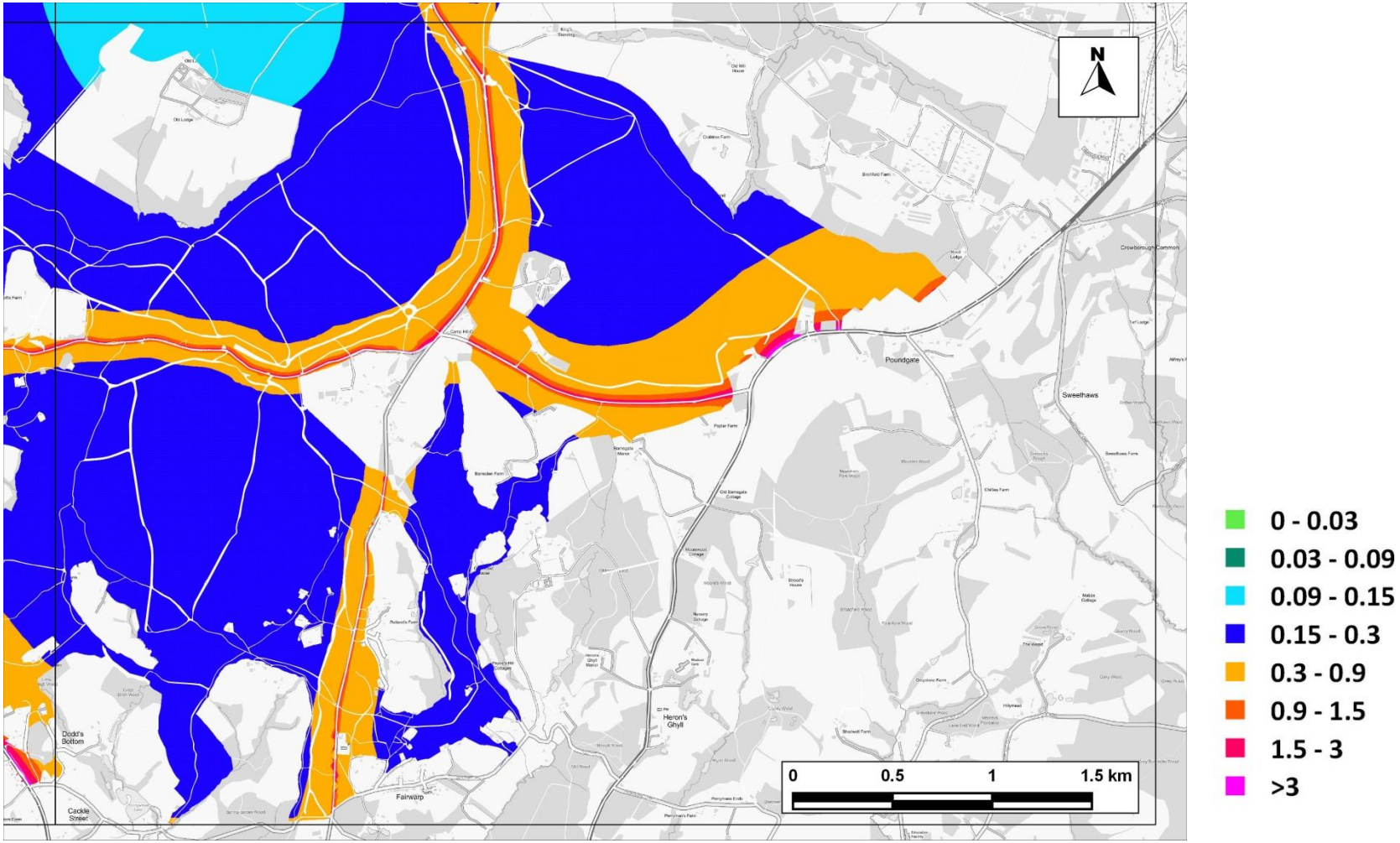


Figure A11.44: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario B (µg/m^3) – Southeast Section

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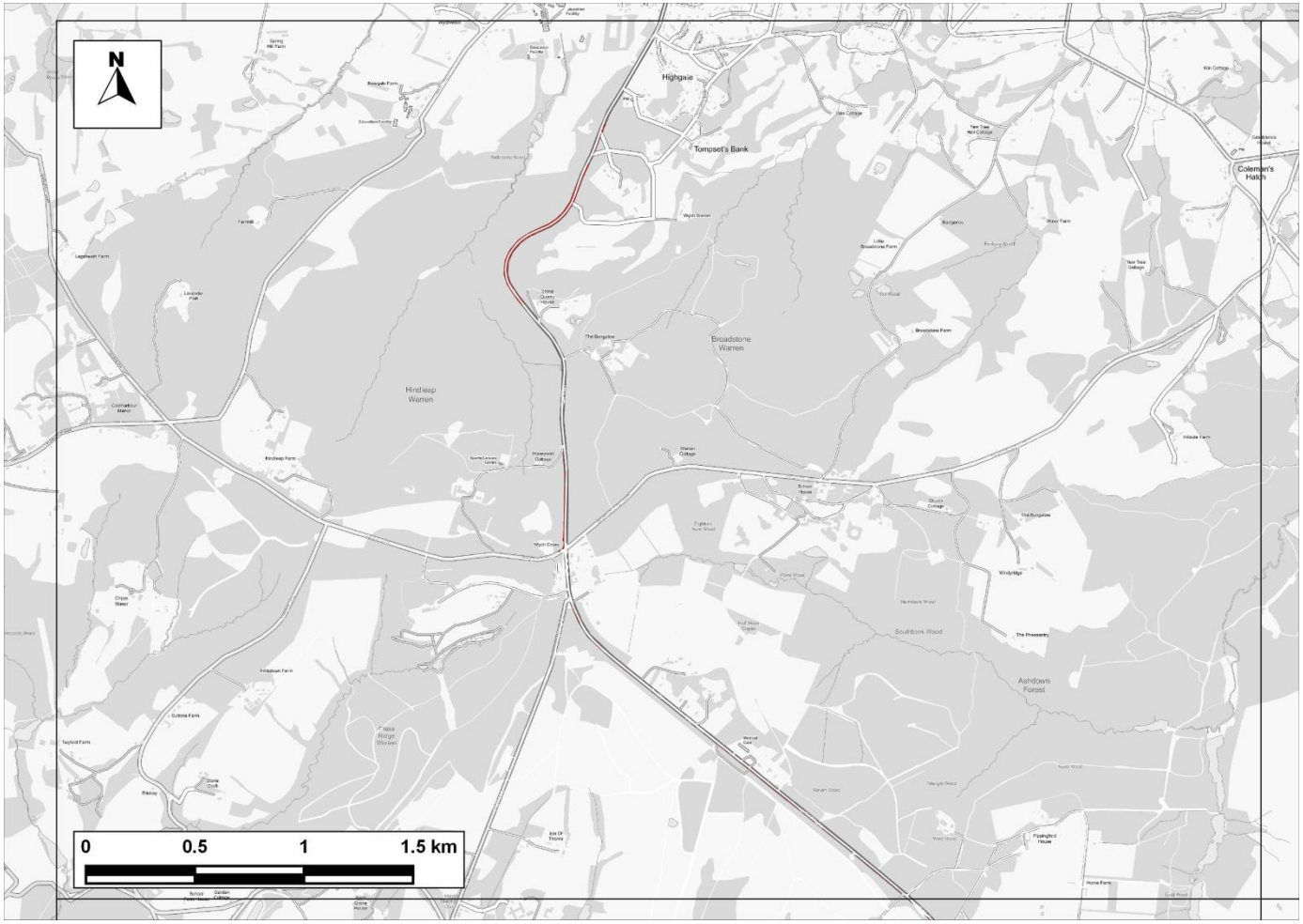


Figure A11.45: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A11.46: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northeast Section

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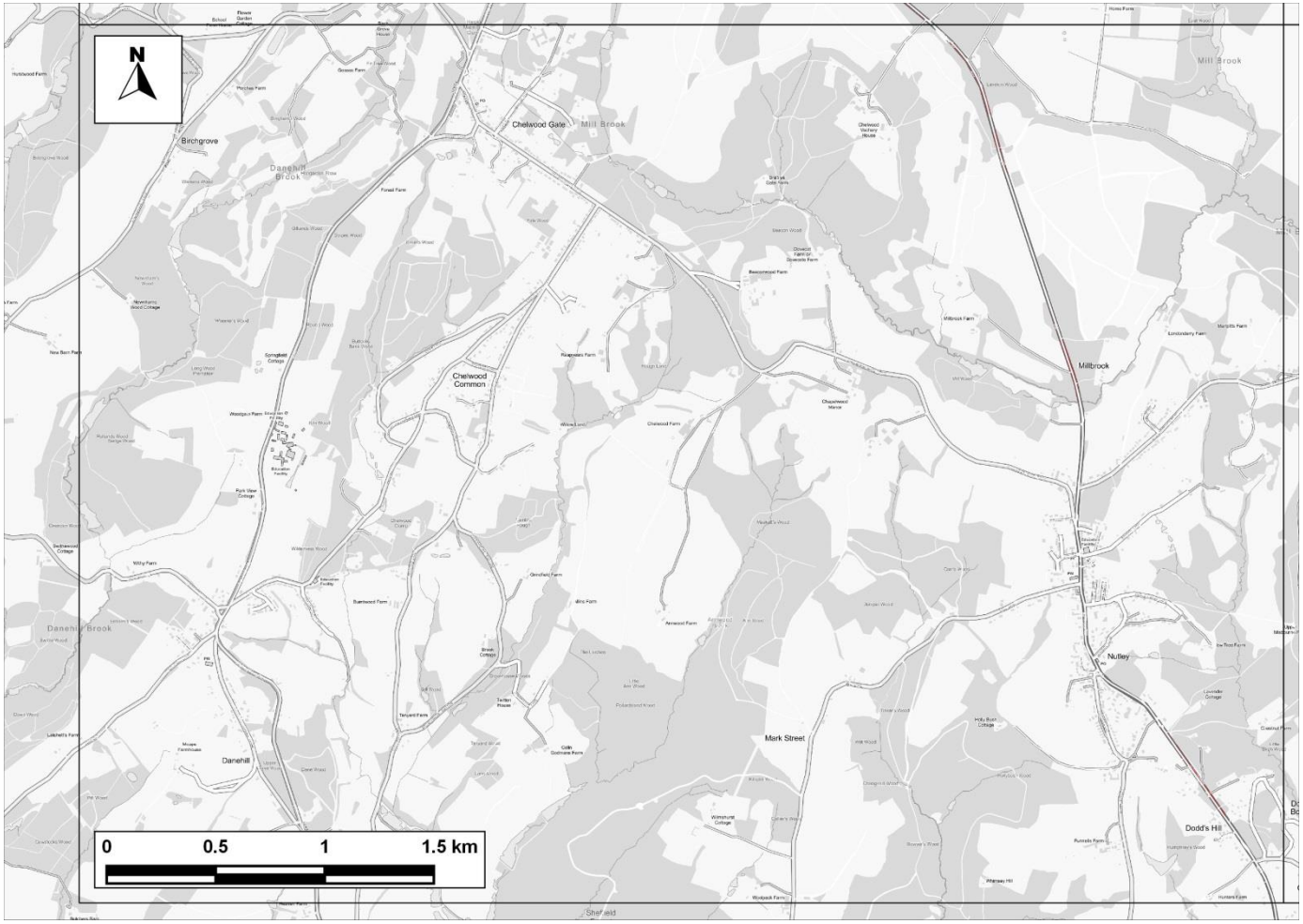


Figure A11.47: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A11.48: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southeast Section

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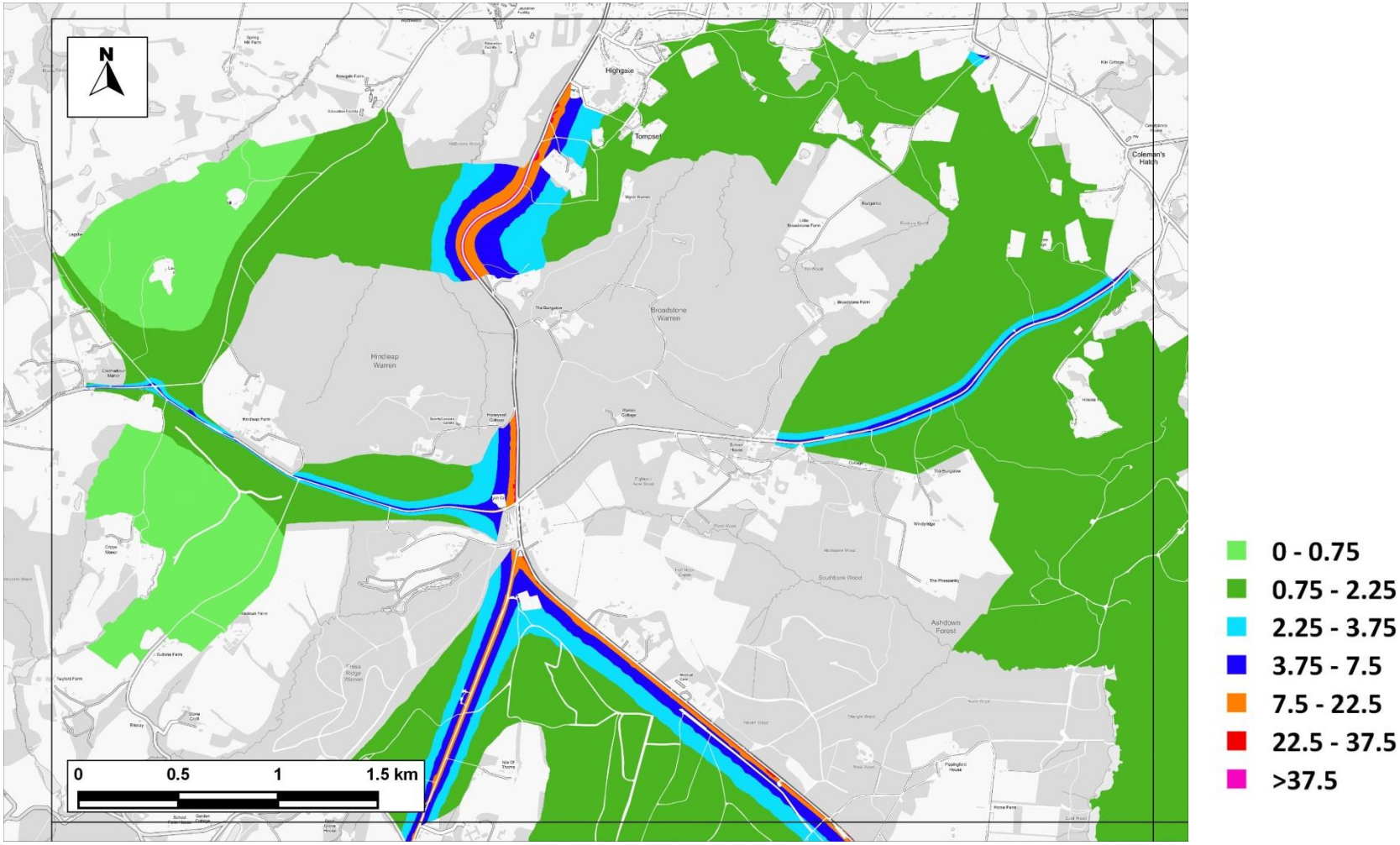


Figure A11.49: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario B (µg/m^3) – Northwest Section

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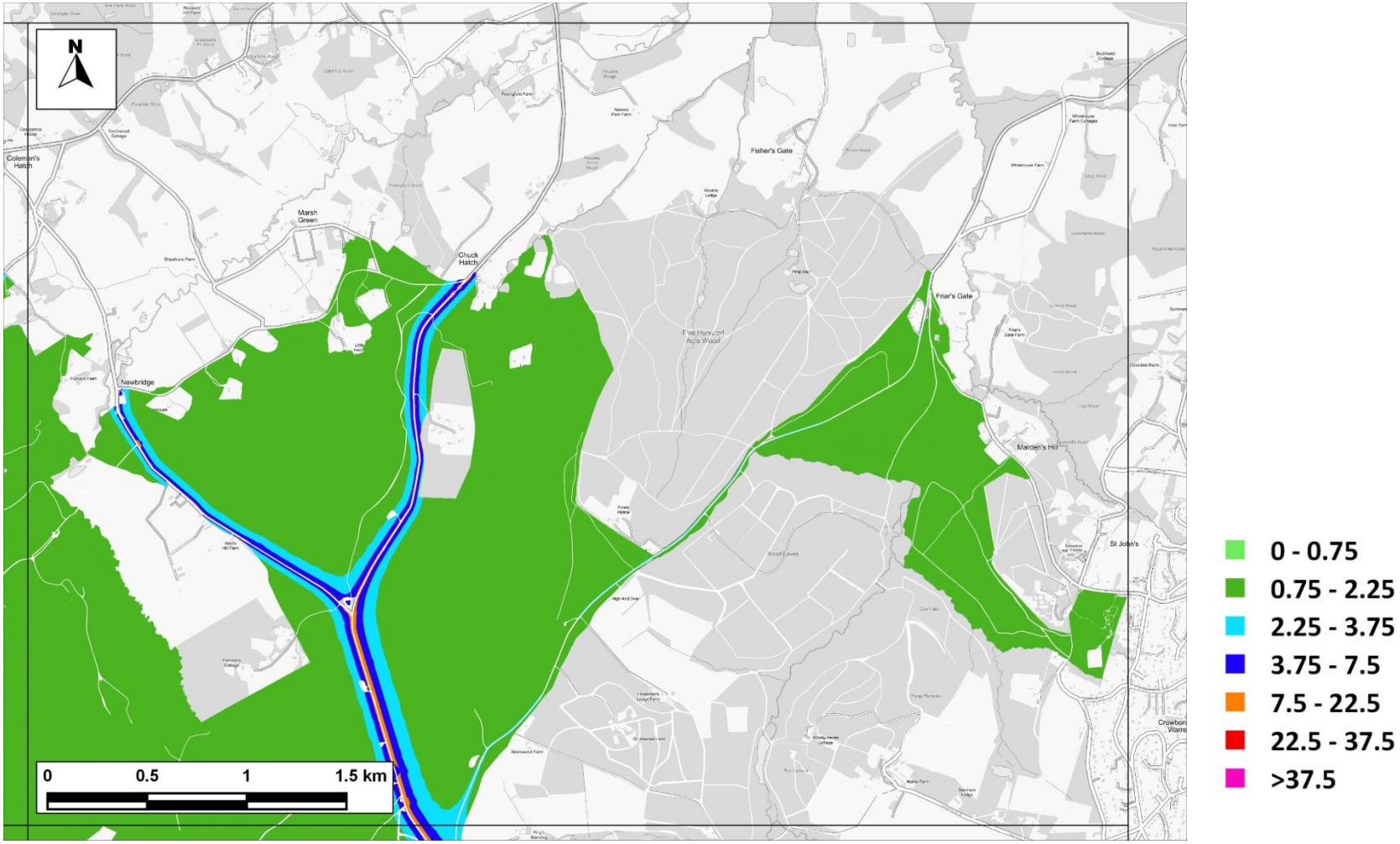


Figure A11.50: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario B (µg/m^3) – Northeast Section

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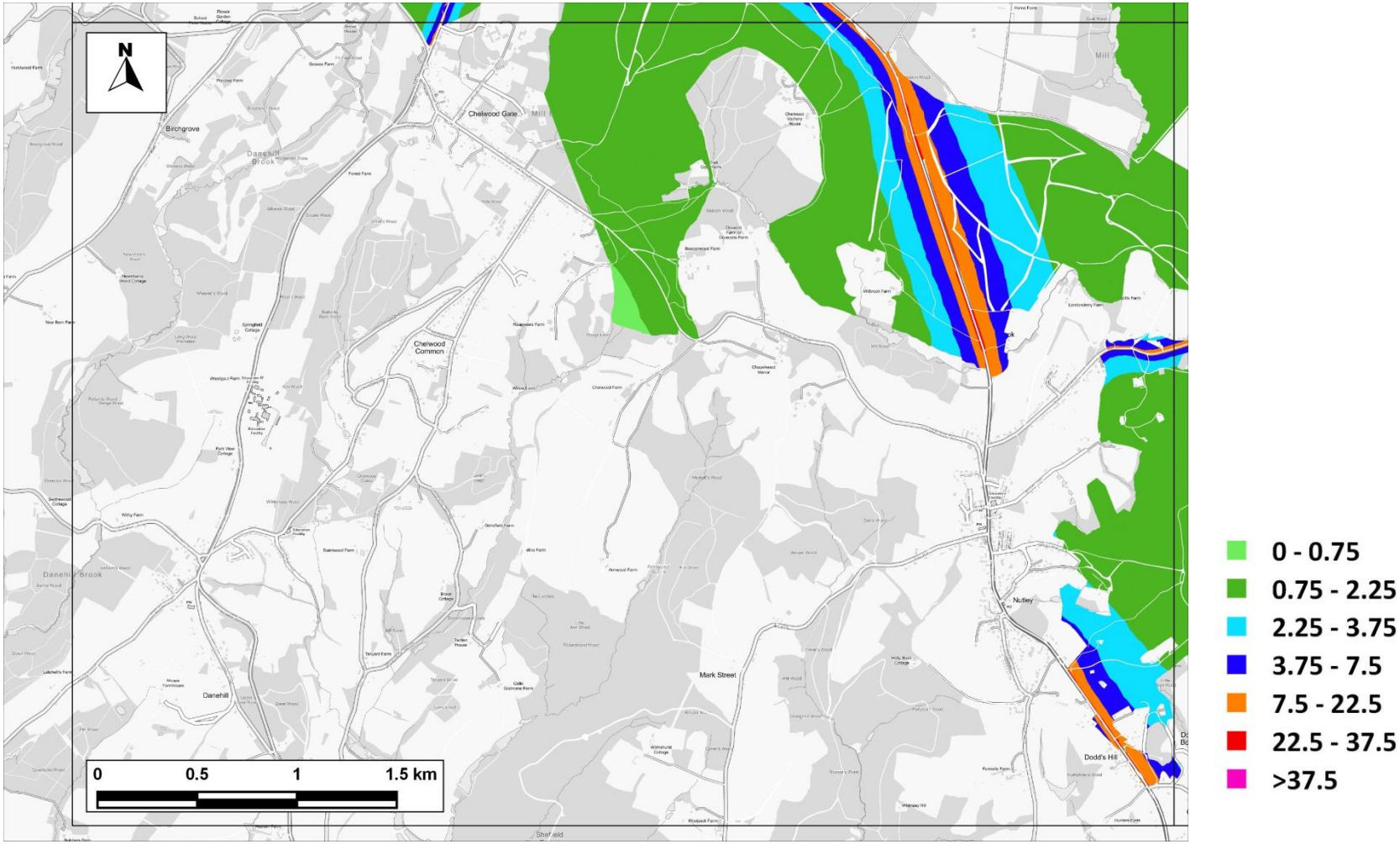


Figure A11.51: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario B (µg/m^3) – Southwest Section

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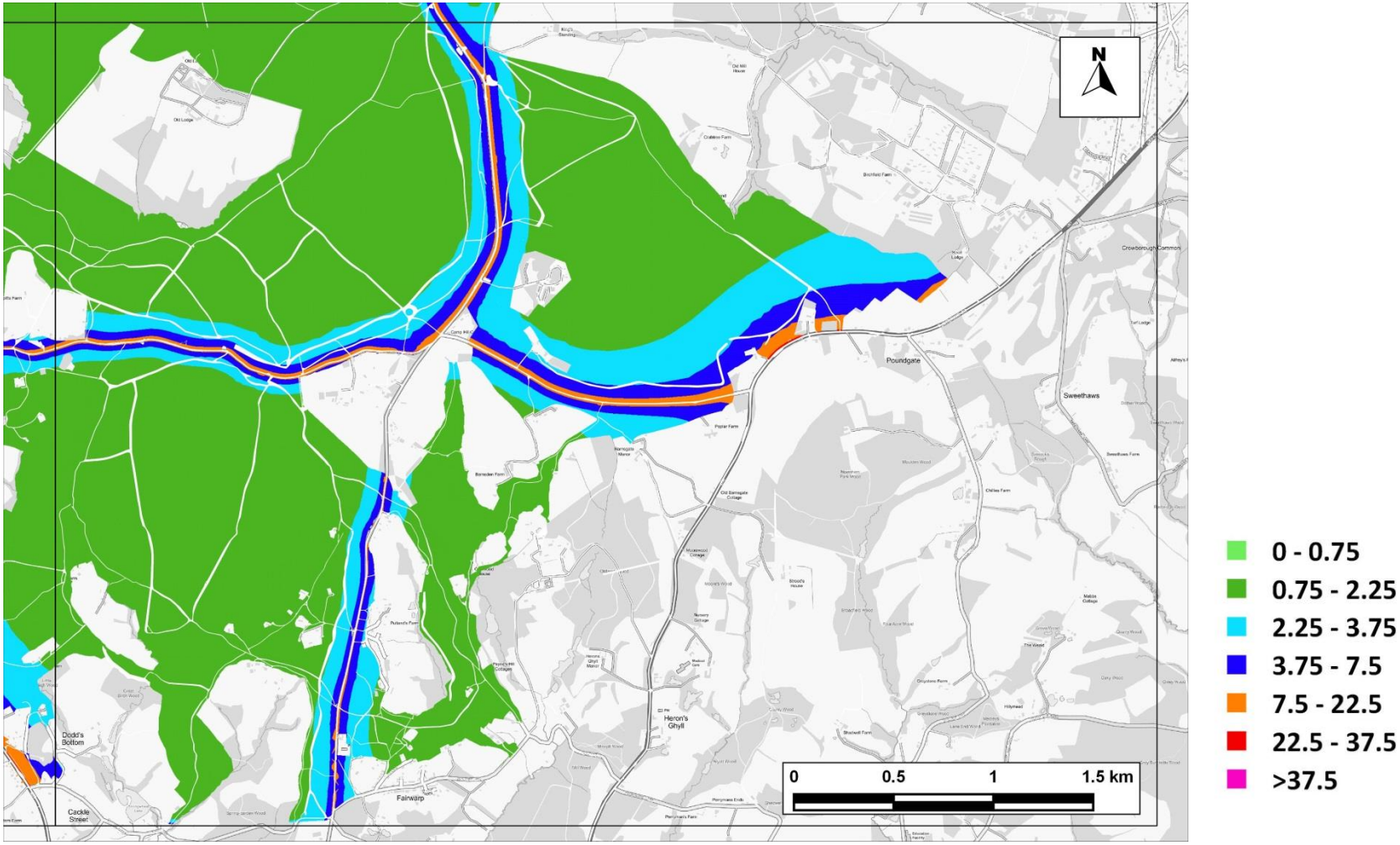


Figure A11.52: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario B (µg/m^3) – Southeast Section

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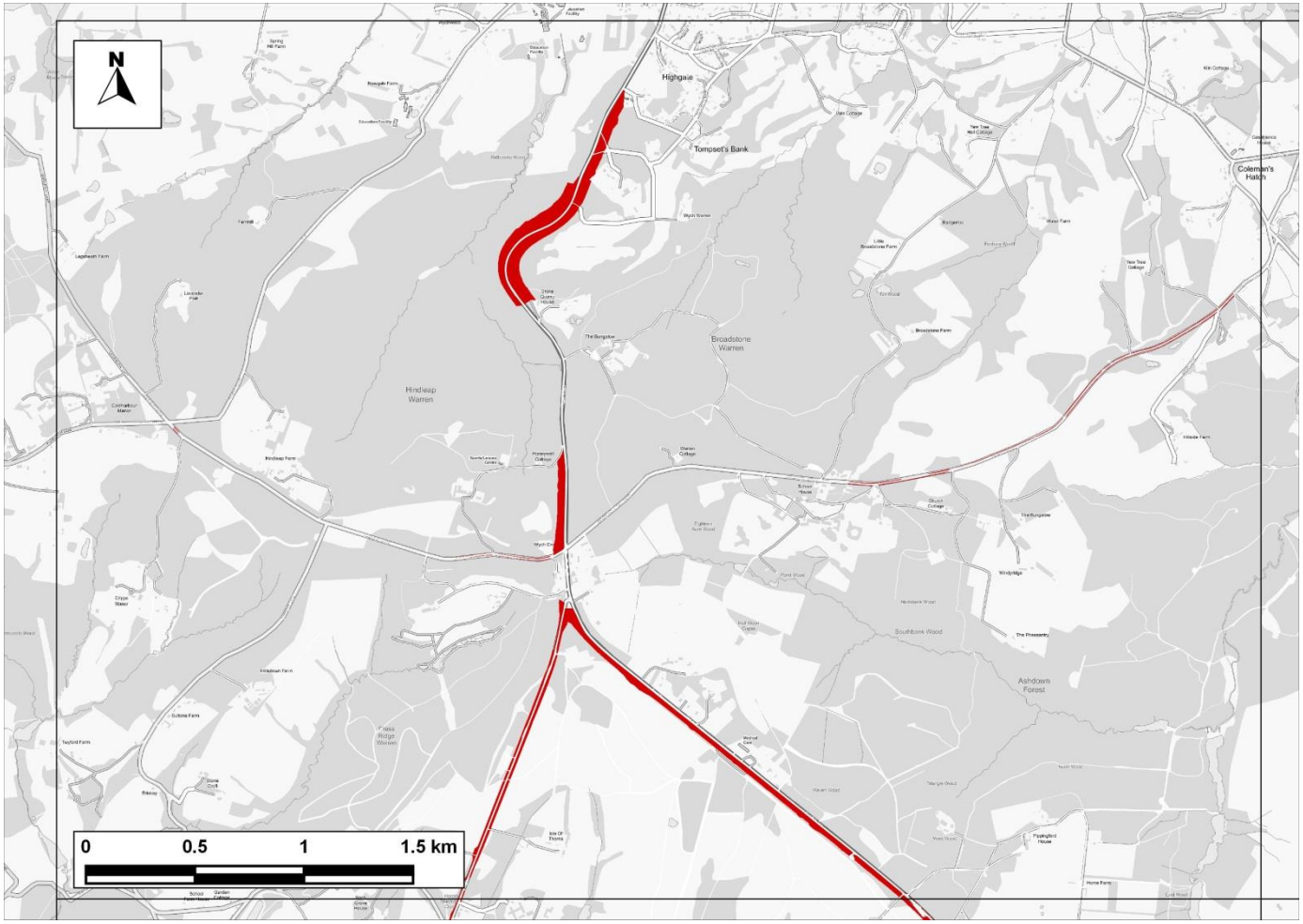


Figure A11.53: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northwest Section

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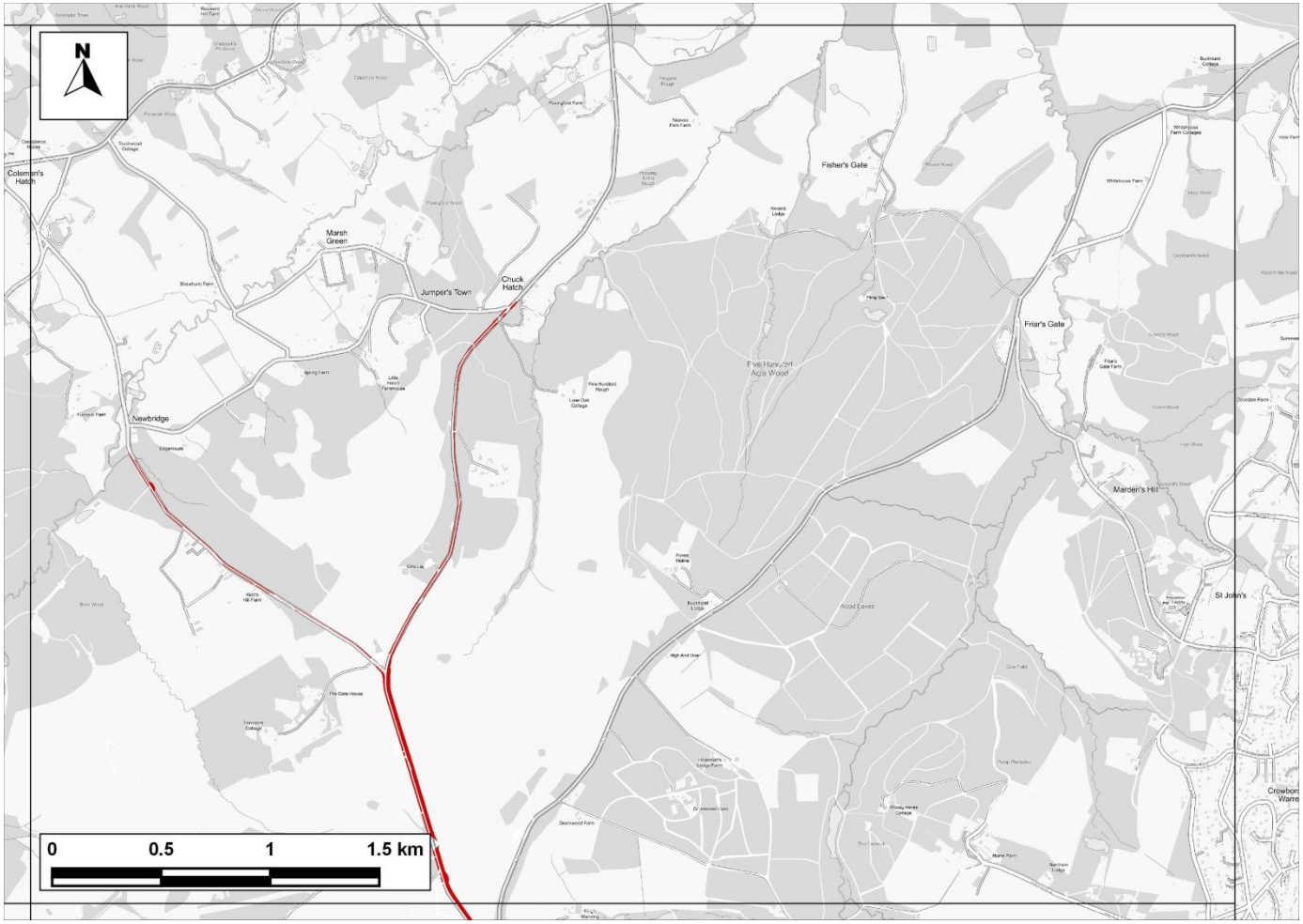


Figure A11.54: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northeast Section

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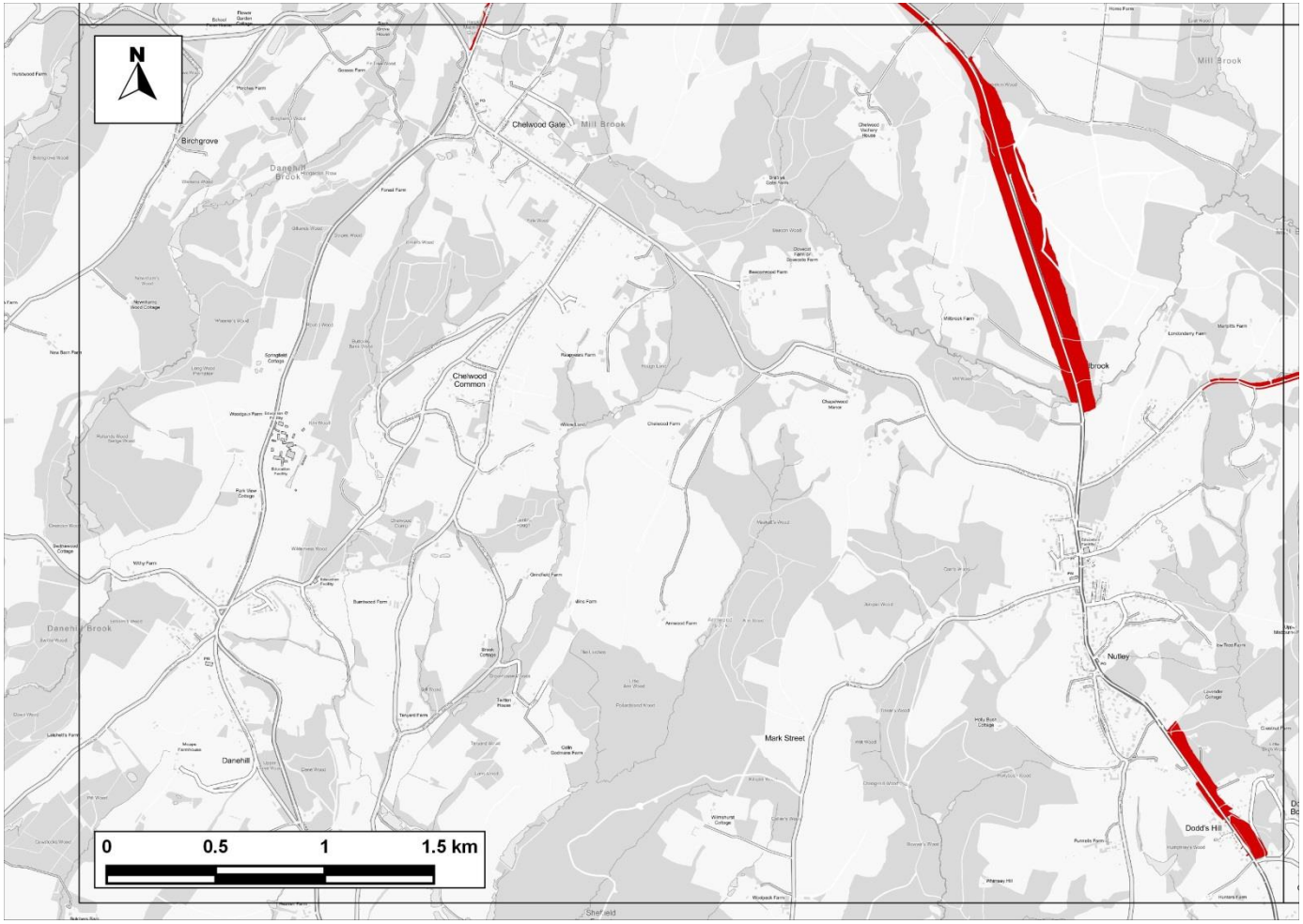


Figure A11.55: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southwest Section

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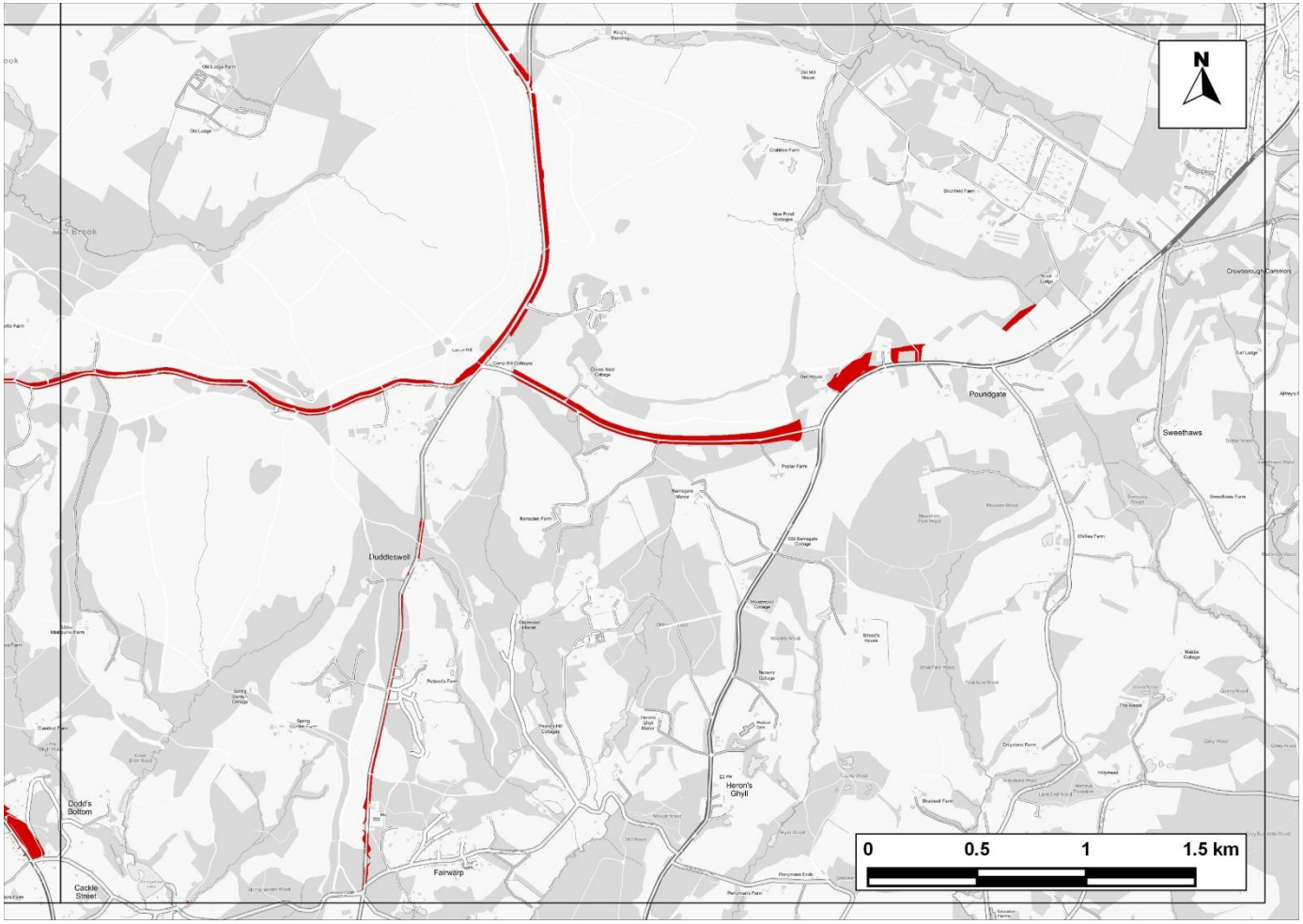


Figure A11.56: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southeast Section

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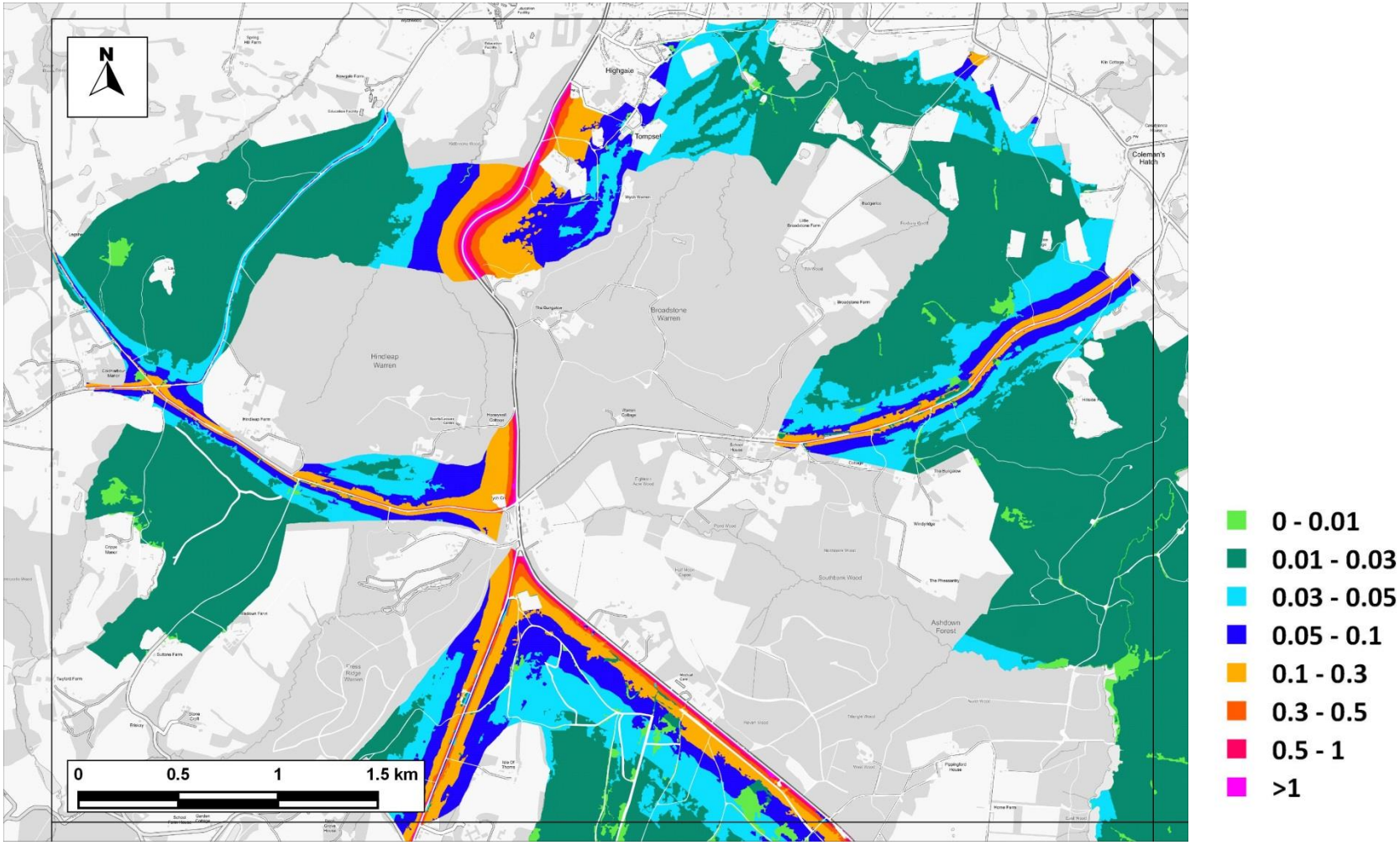


Figure A11.57: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northwest Section

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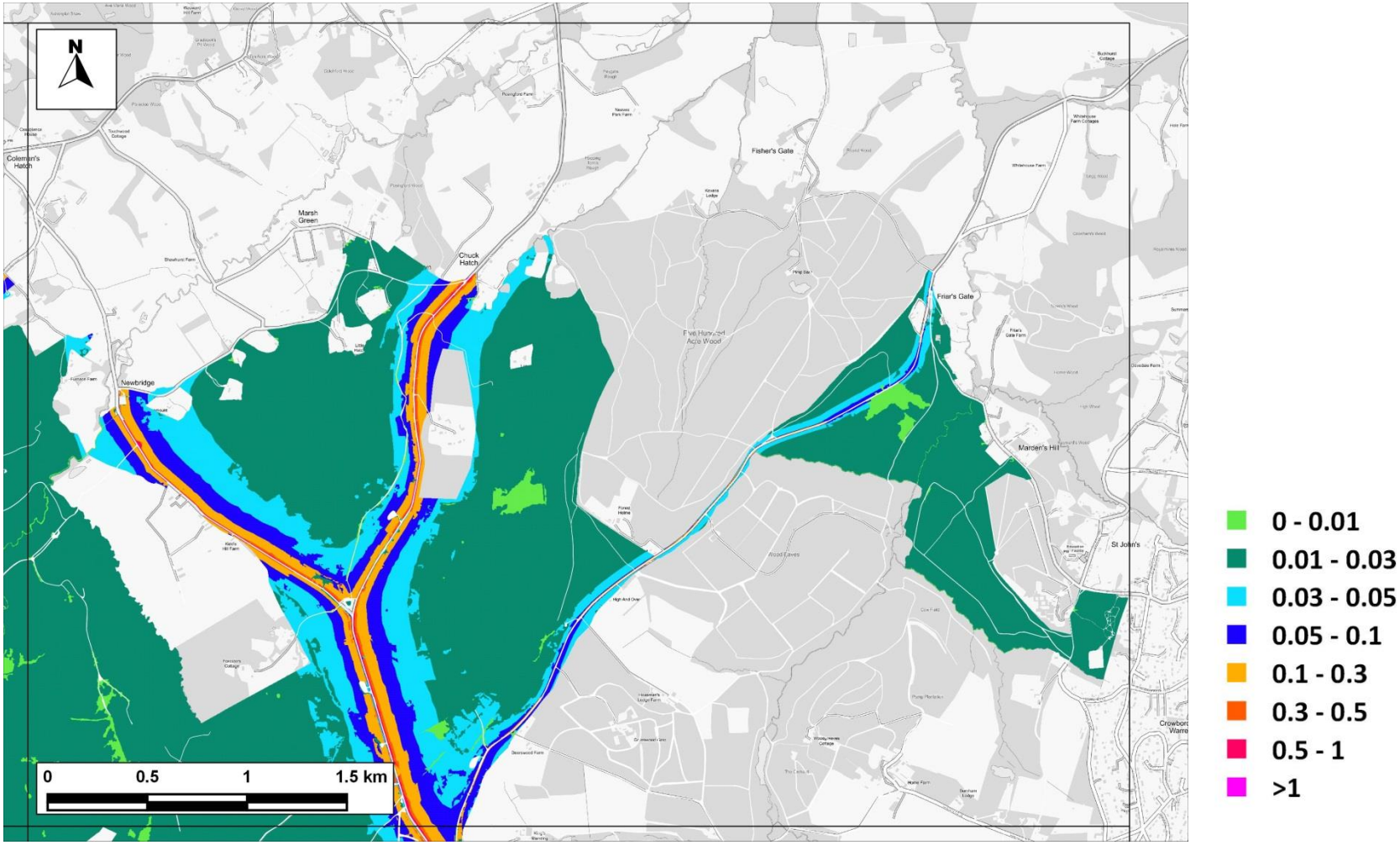


Figure A11.58: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northeast Section

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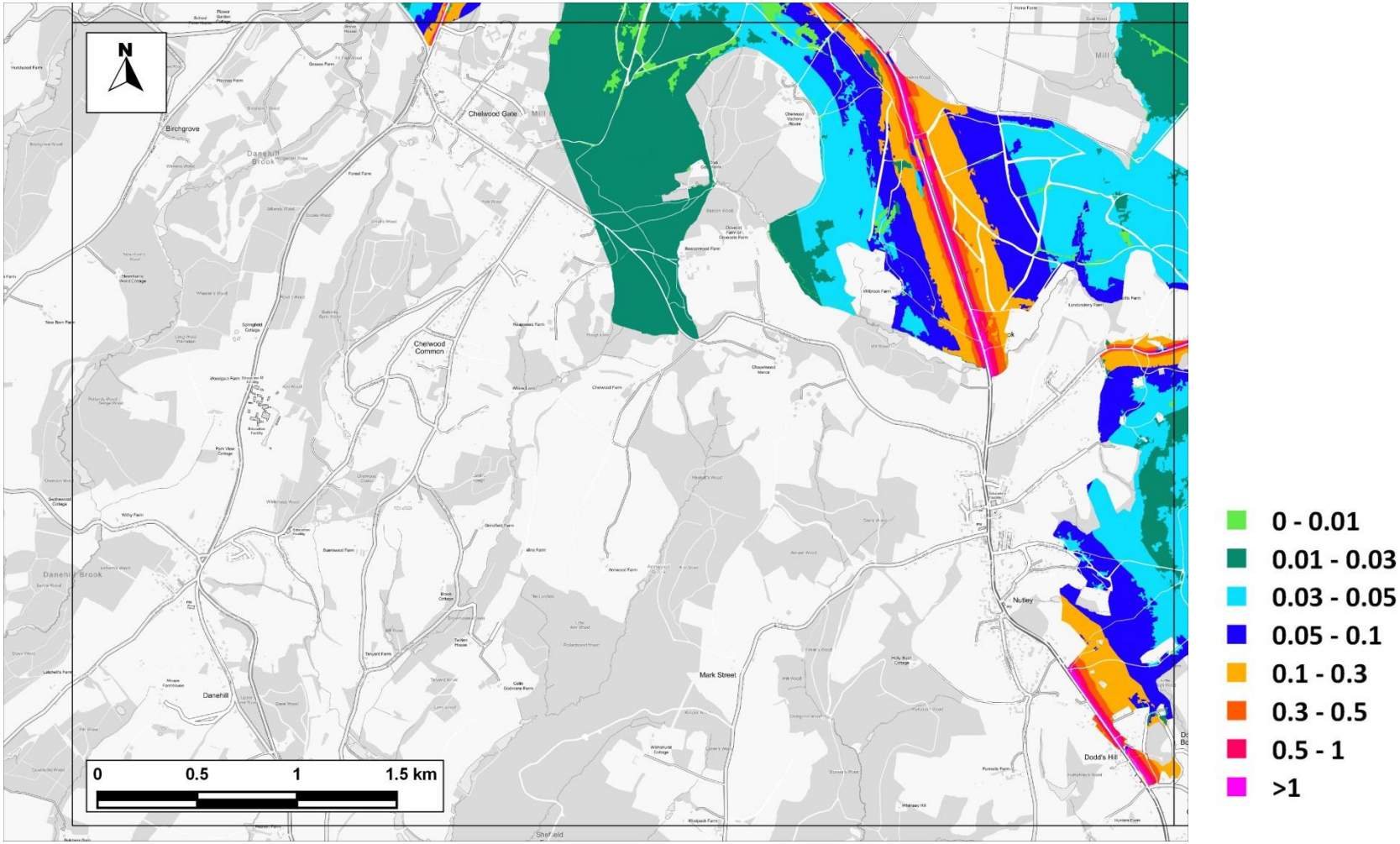


Figure A11.59: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southwest Section

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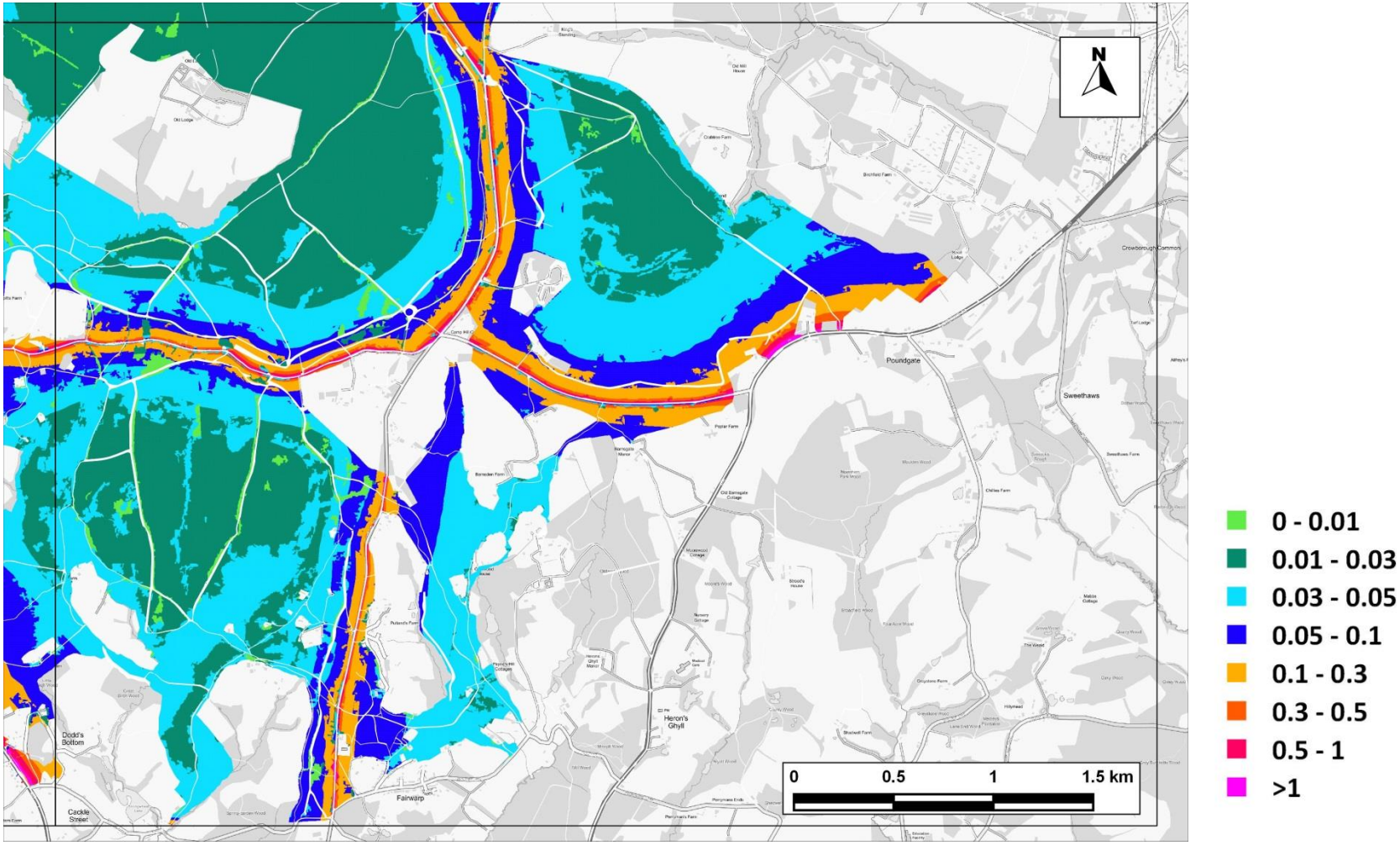


Figure A11.60: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southeast Section

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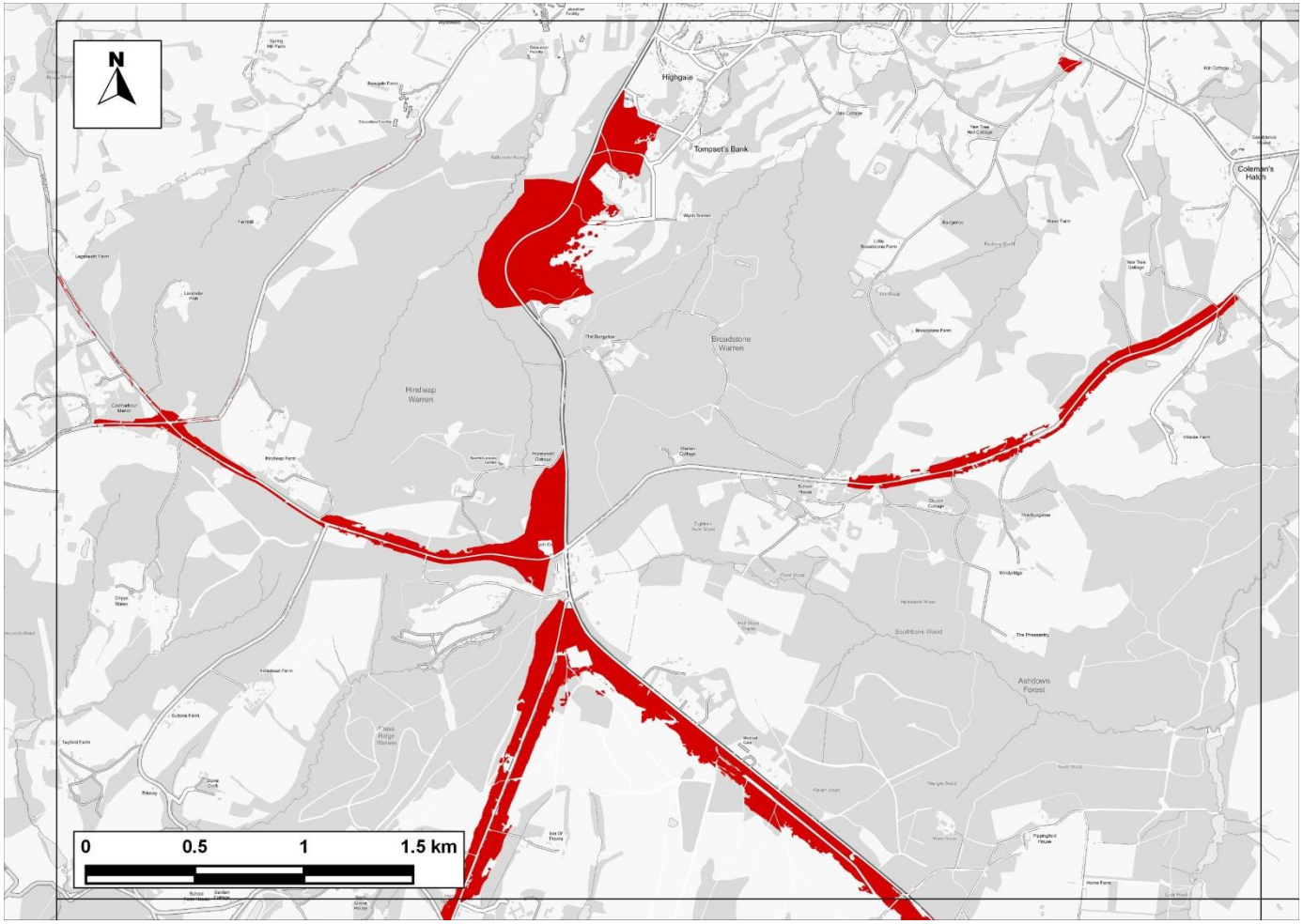


Figure A11.61: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Northwest Section

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Figure A11.62: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Northeast Section

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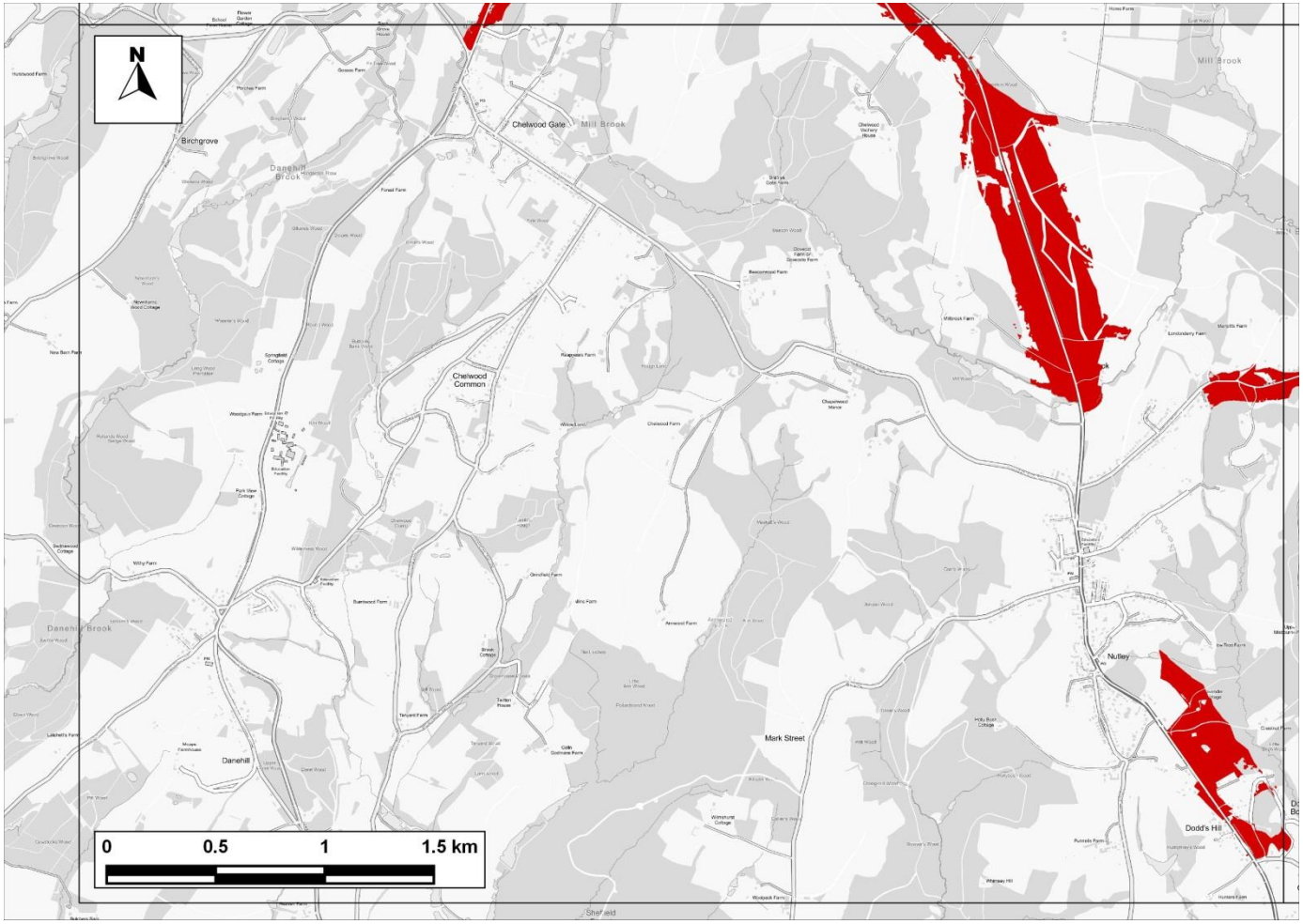


Figure A11.63: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Southwest Section

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Figure A11.64 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Southeast Section

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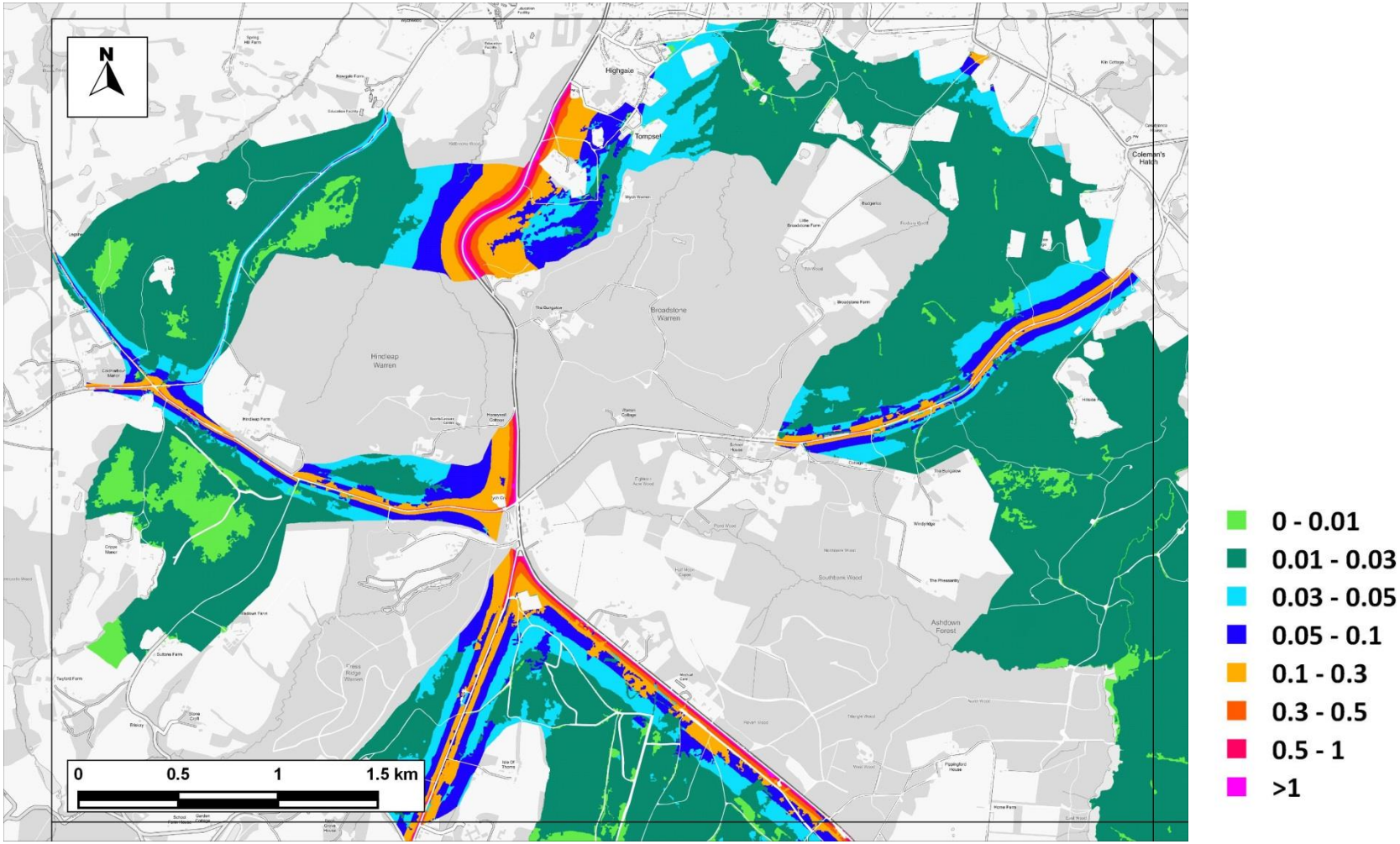


Figure A11.65: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northwest Section

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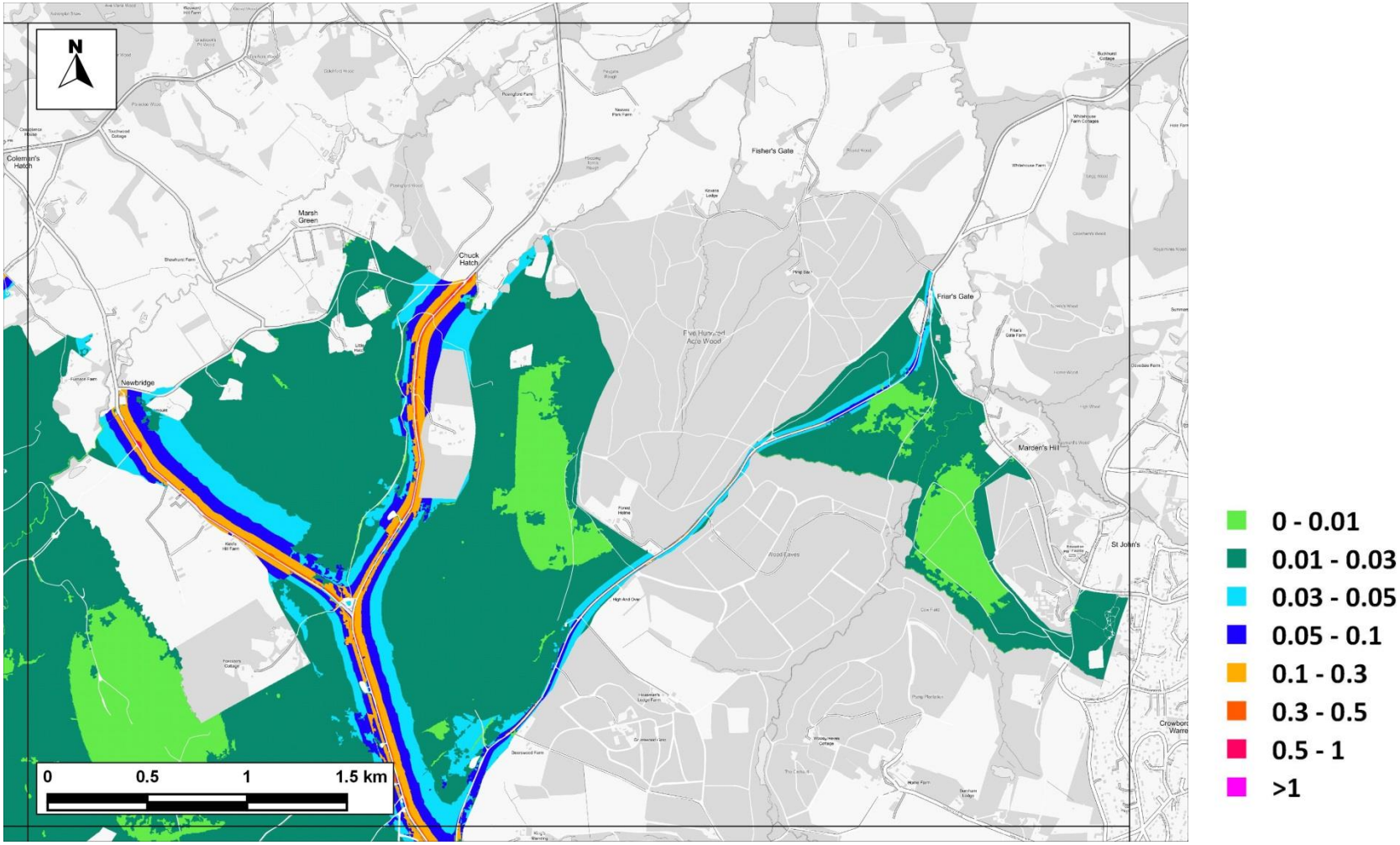


Figure A11.66: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northeast Section

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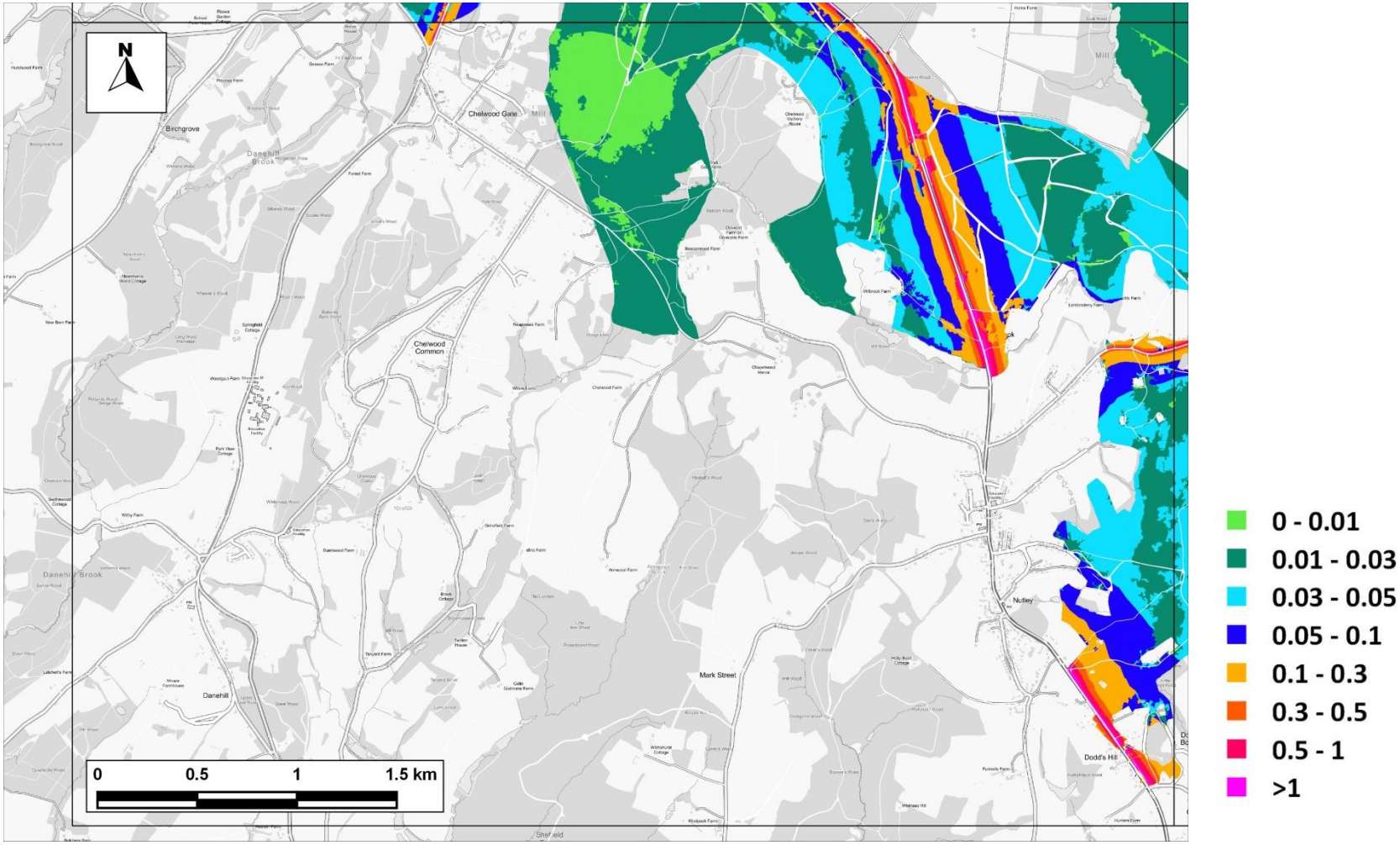


Figure A11.67: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southwest Section

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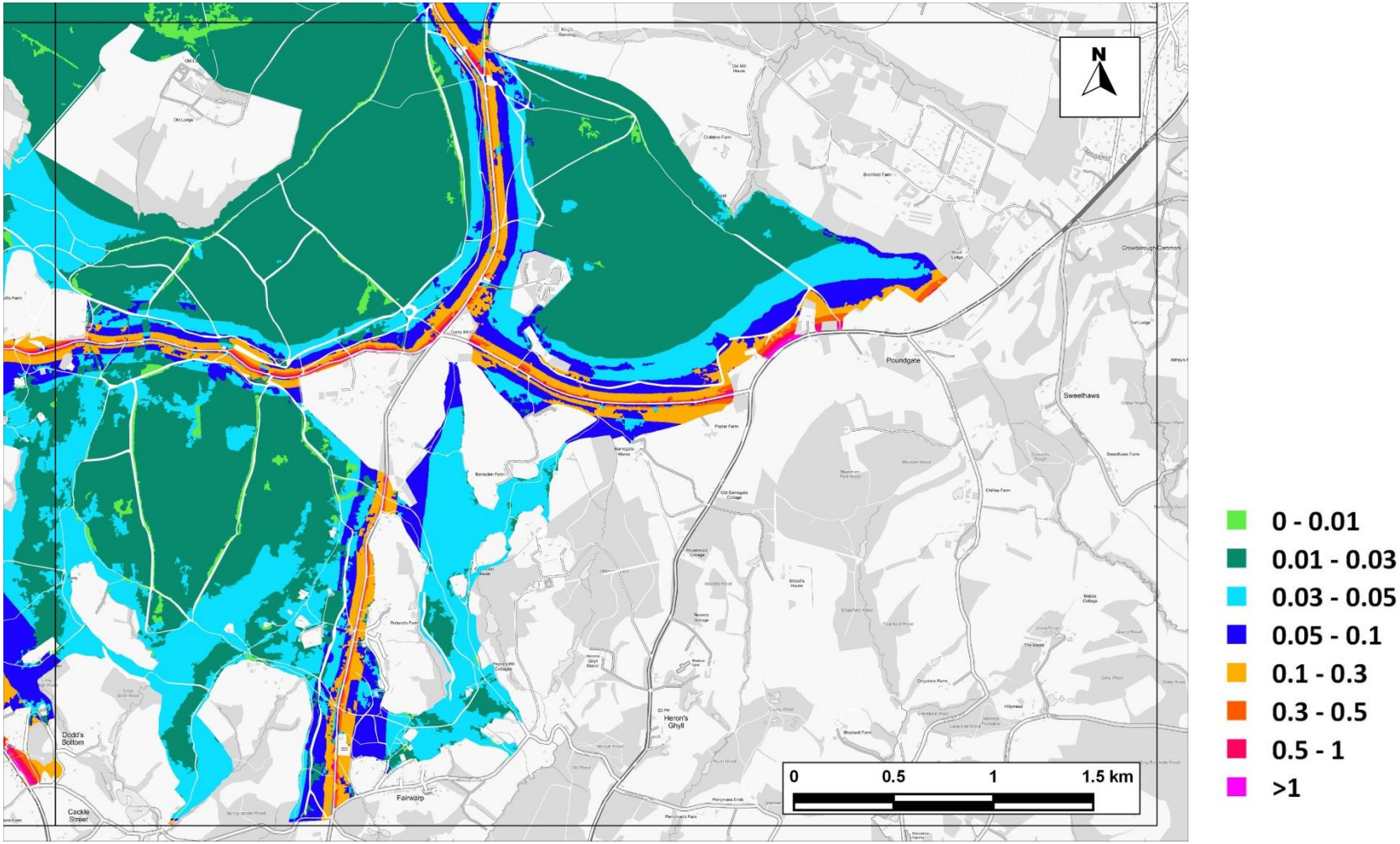


Figure A11.68: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southeast Section

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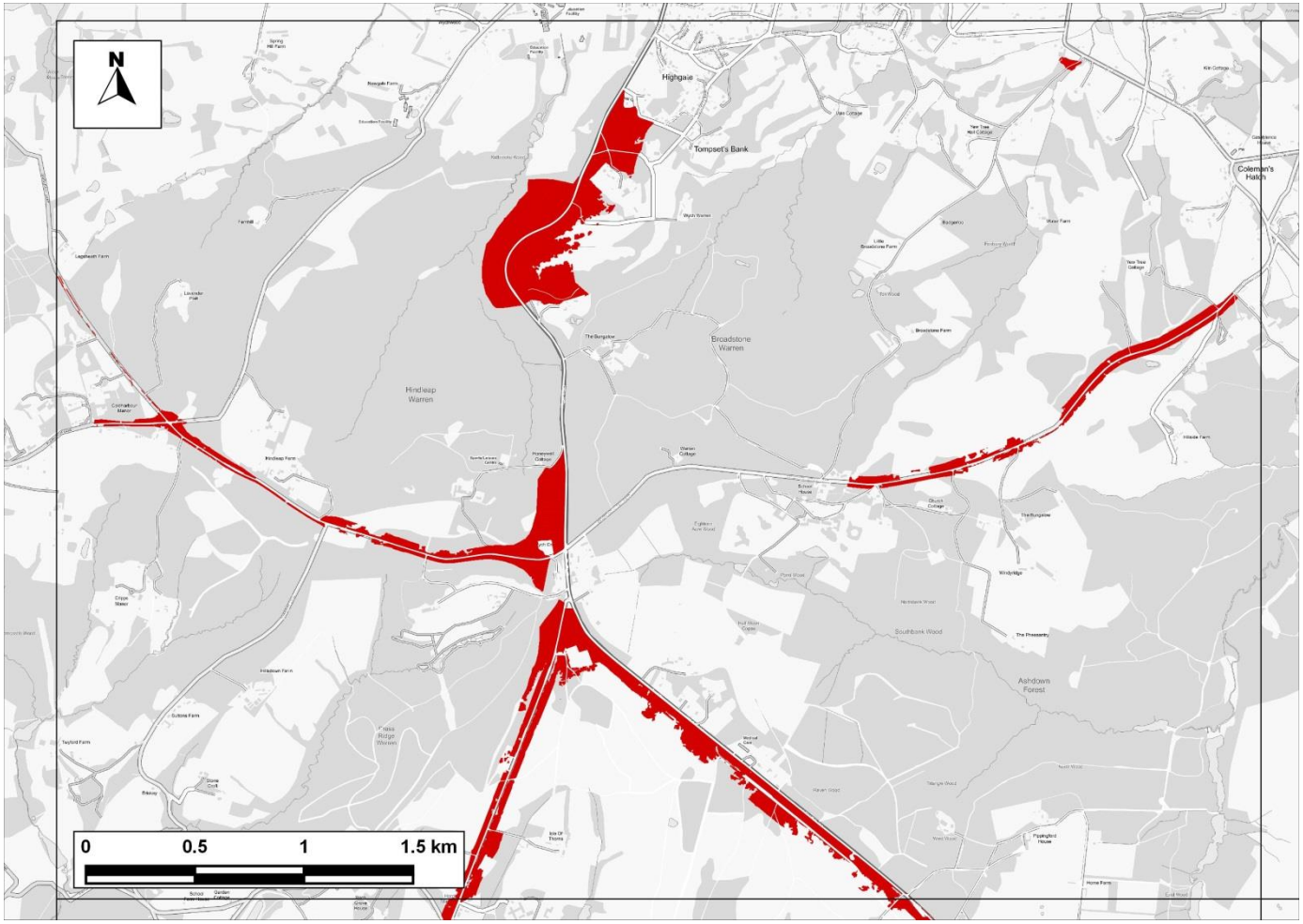


Figure A11.69: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Northwest Section

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Figure A11.70: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Northeast Section

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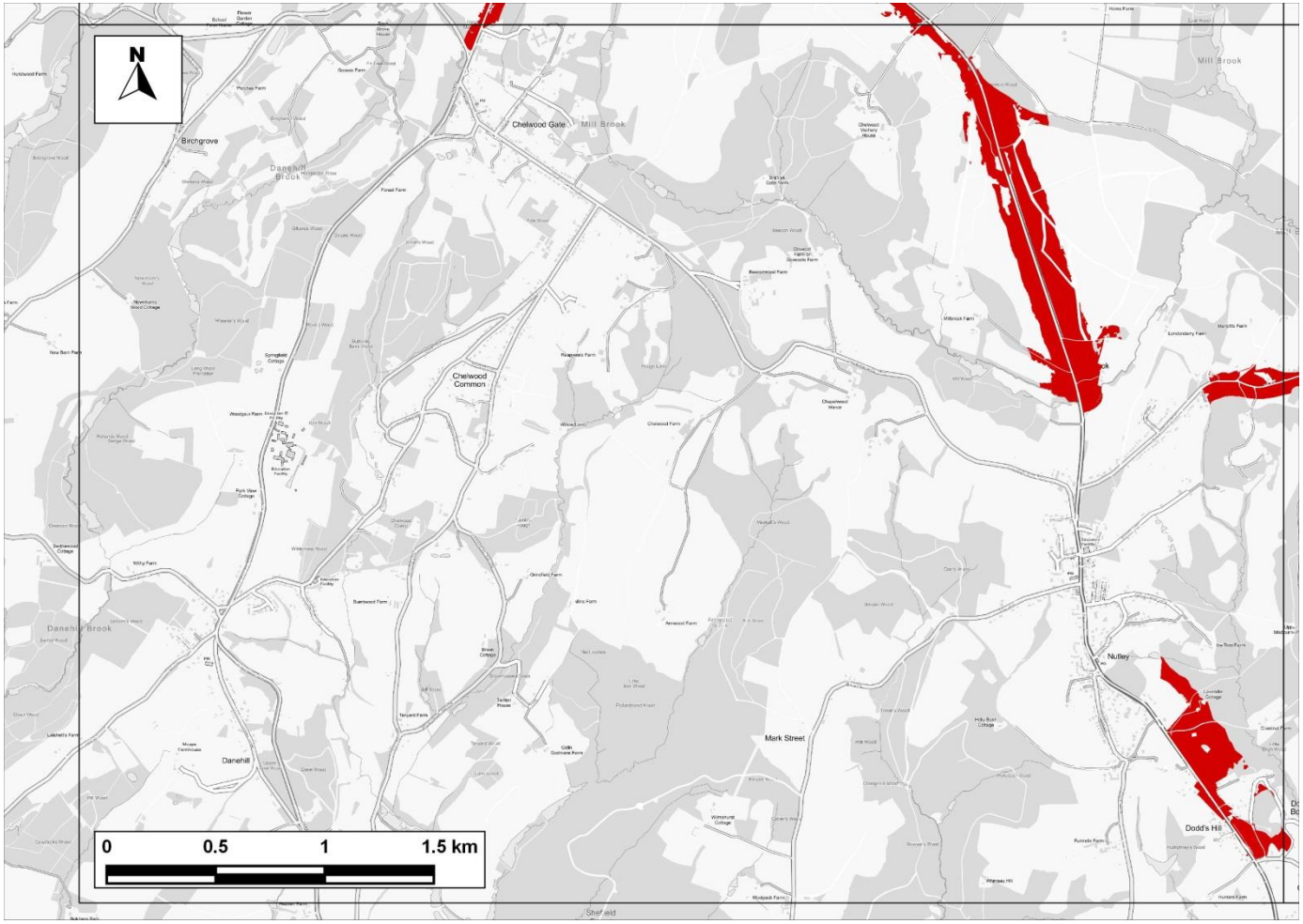


Figure A11.71: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Southwest Section

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Figure A11.72 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Southeast Section

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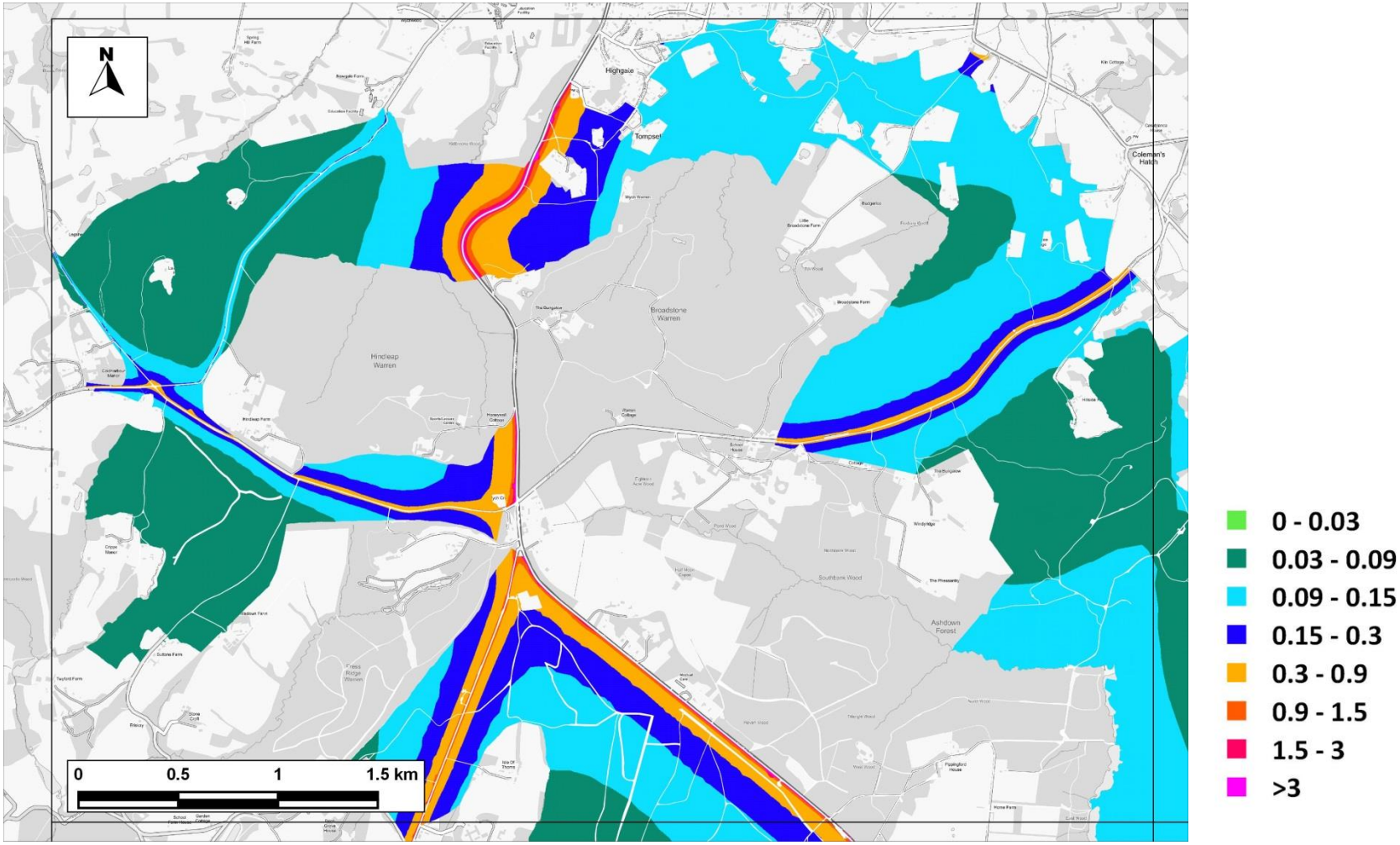


Figure A11.73: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario C (µg/m^3) – Northwest Section

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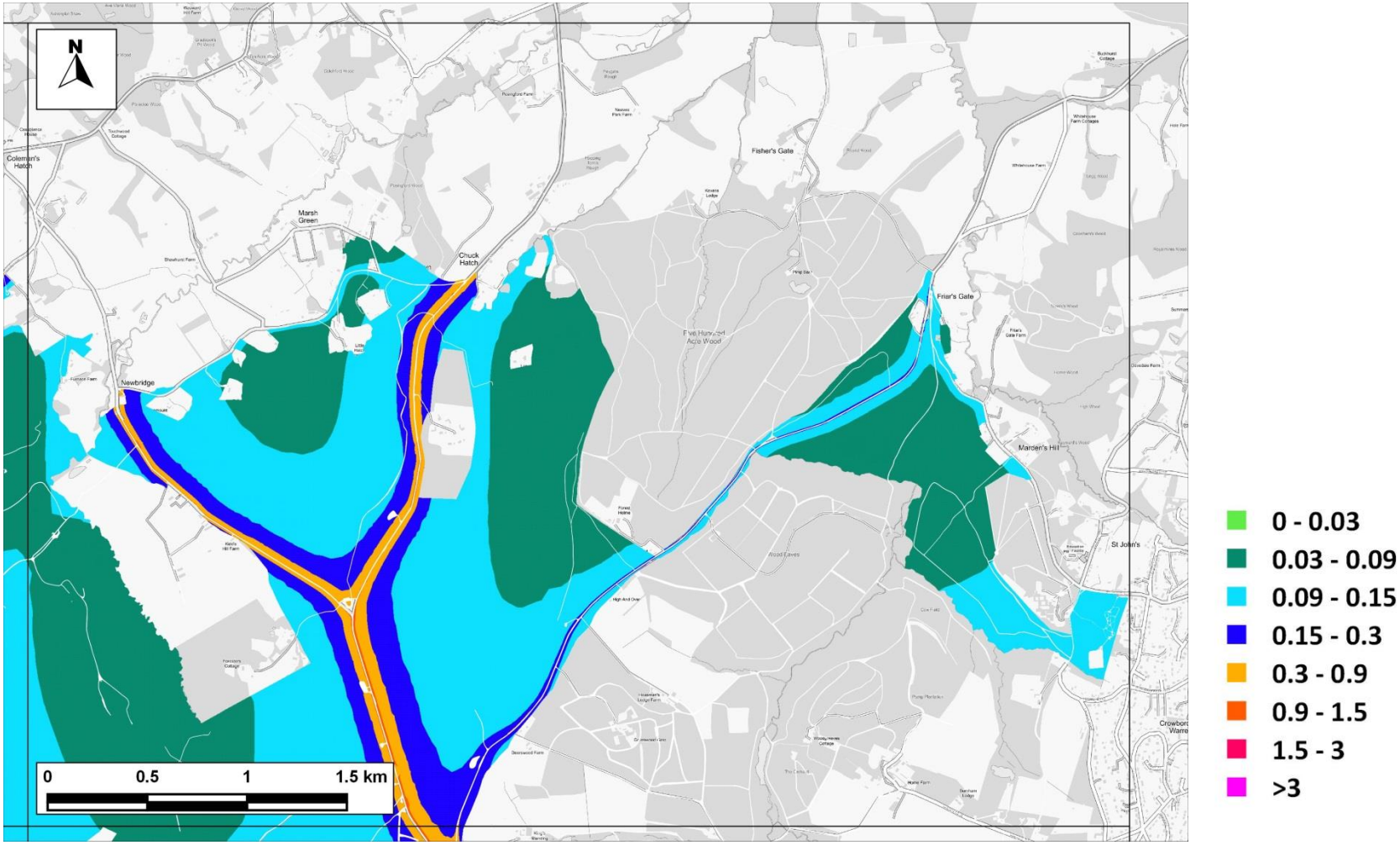


Figure A11.74: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario C (µg/m^3) – Northeast Section

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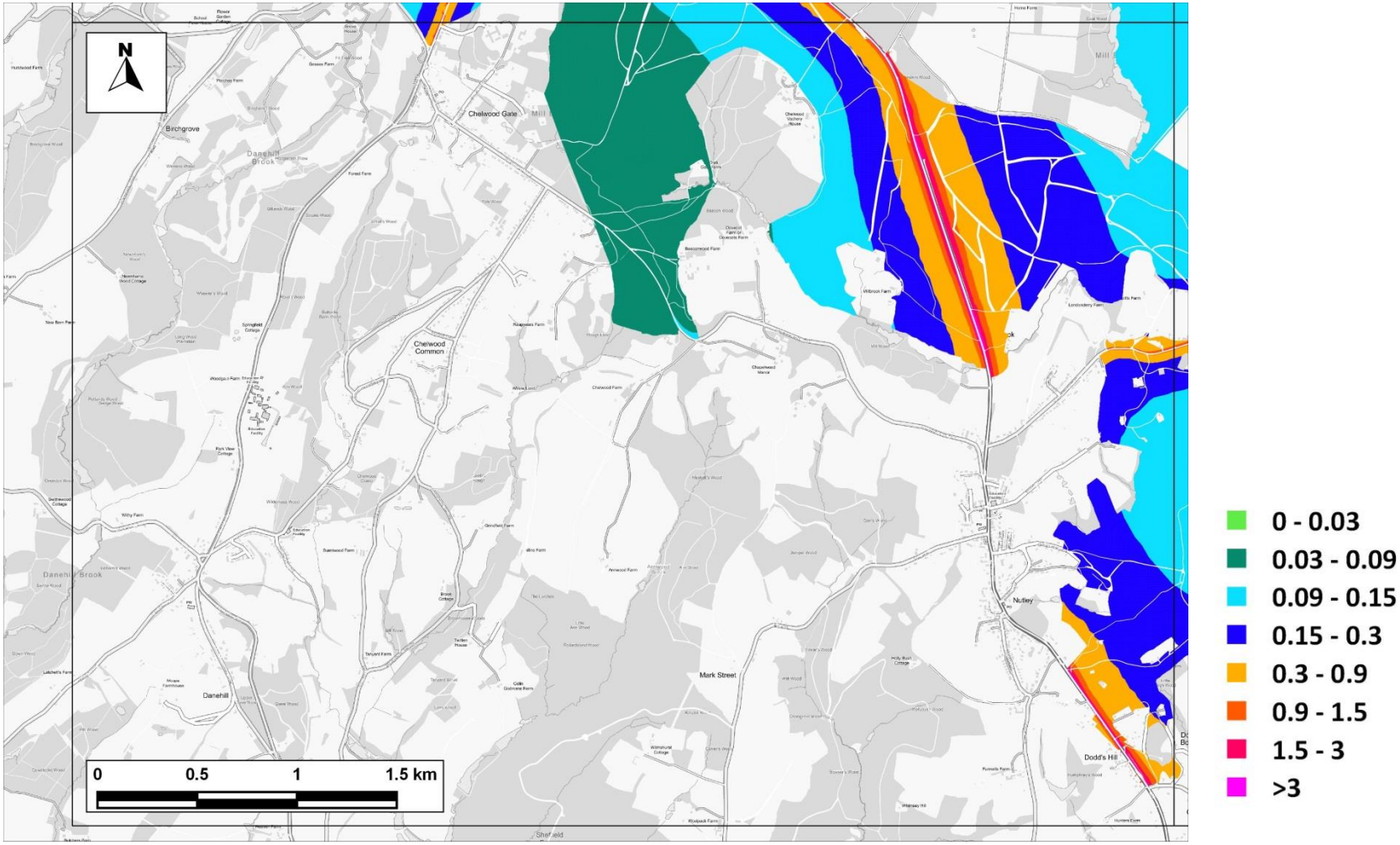


Figure A11.75: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario C (µg/m^3)– Southwest Section

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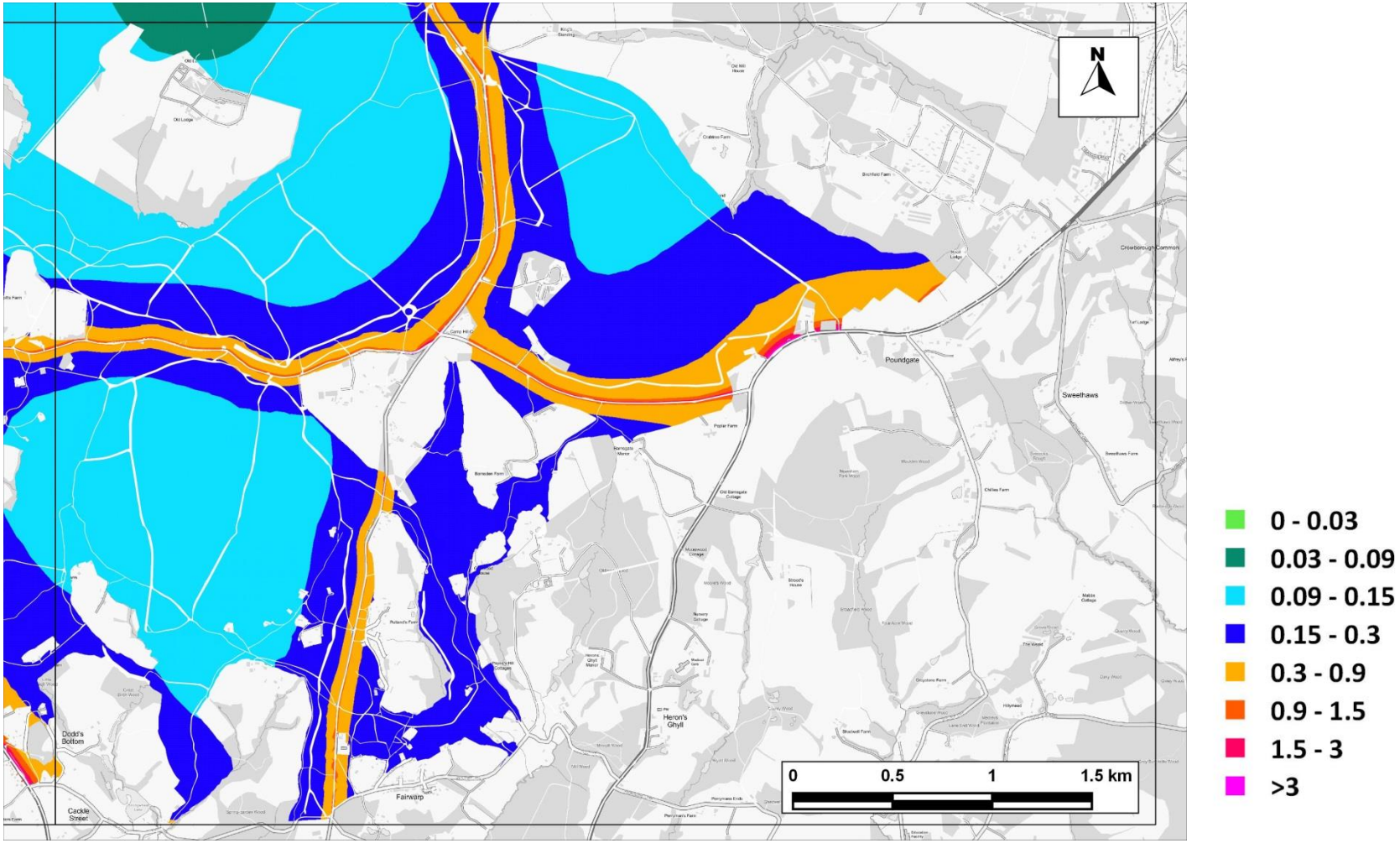


Figure A11.76: Change in Predicted Annual Mean NOx Comparing 'With Plan' to 'No Growth' Under Emissions Scenario C (µg/m^3) – Southeast Section

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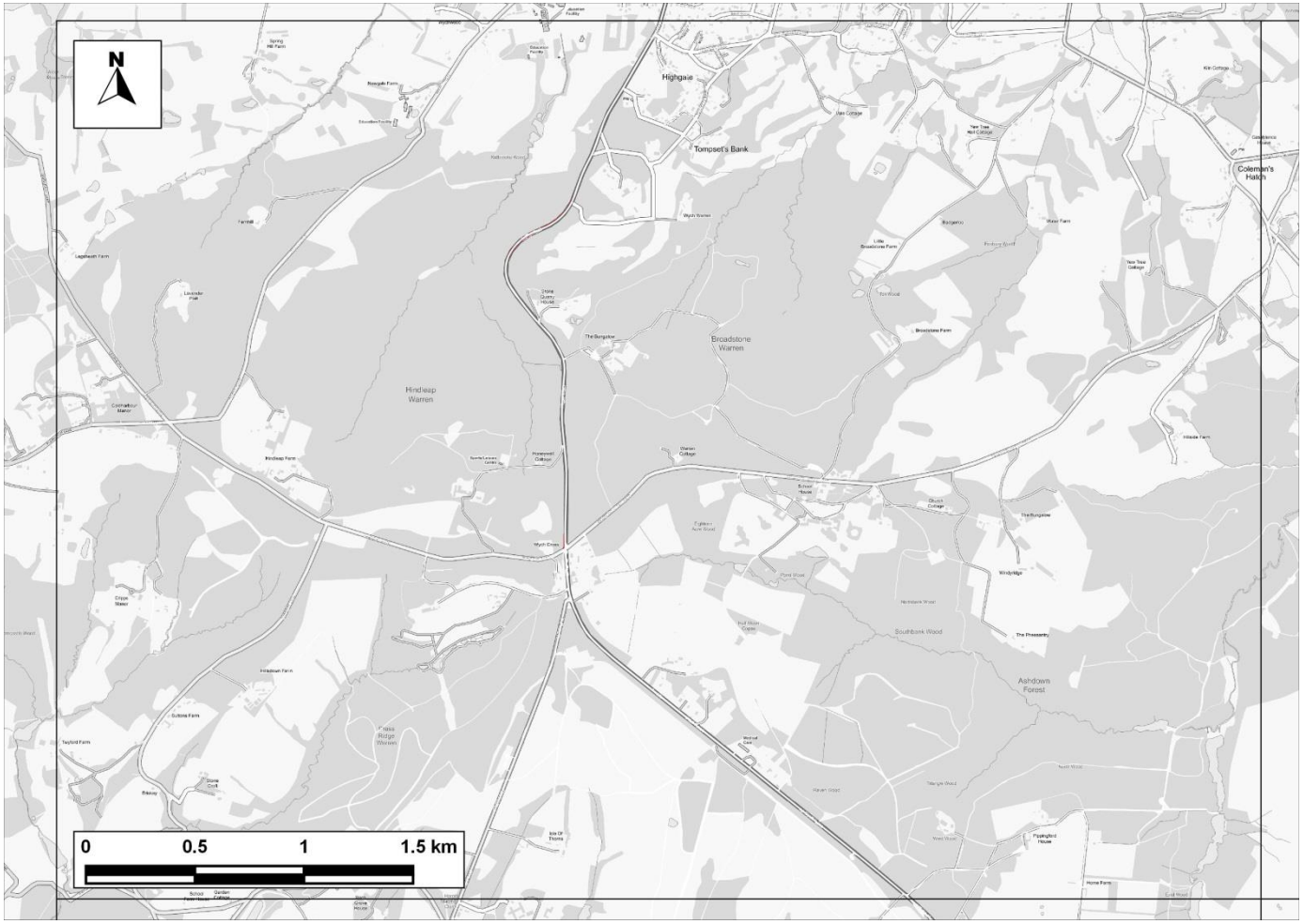


Figure A11.77: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A11.78: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northeast Section

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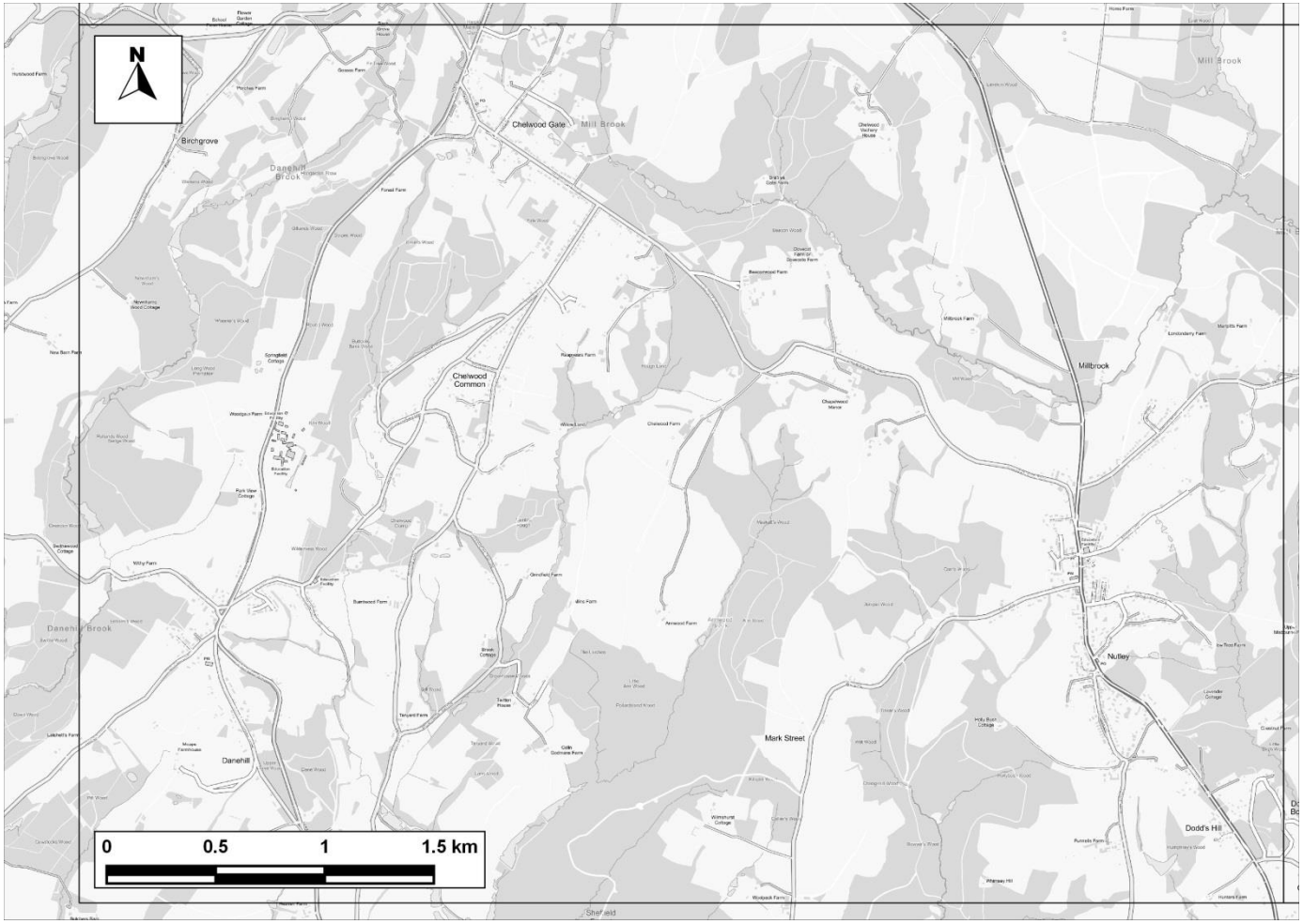


Figure A11.79: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A11.80: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southeast Section

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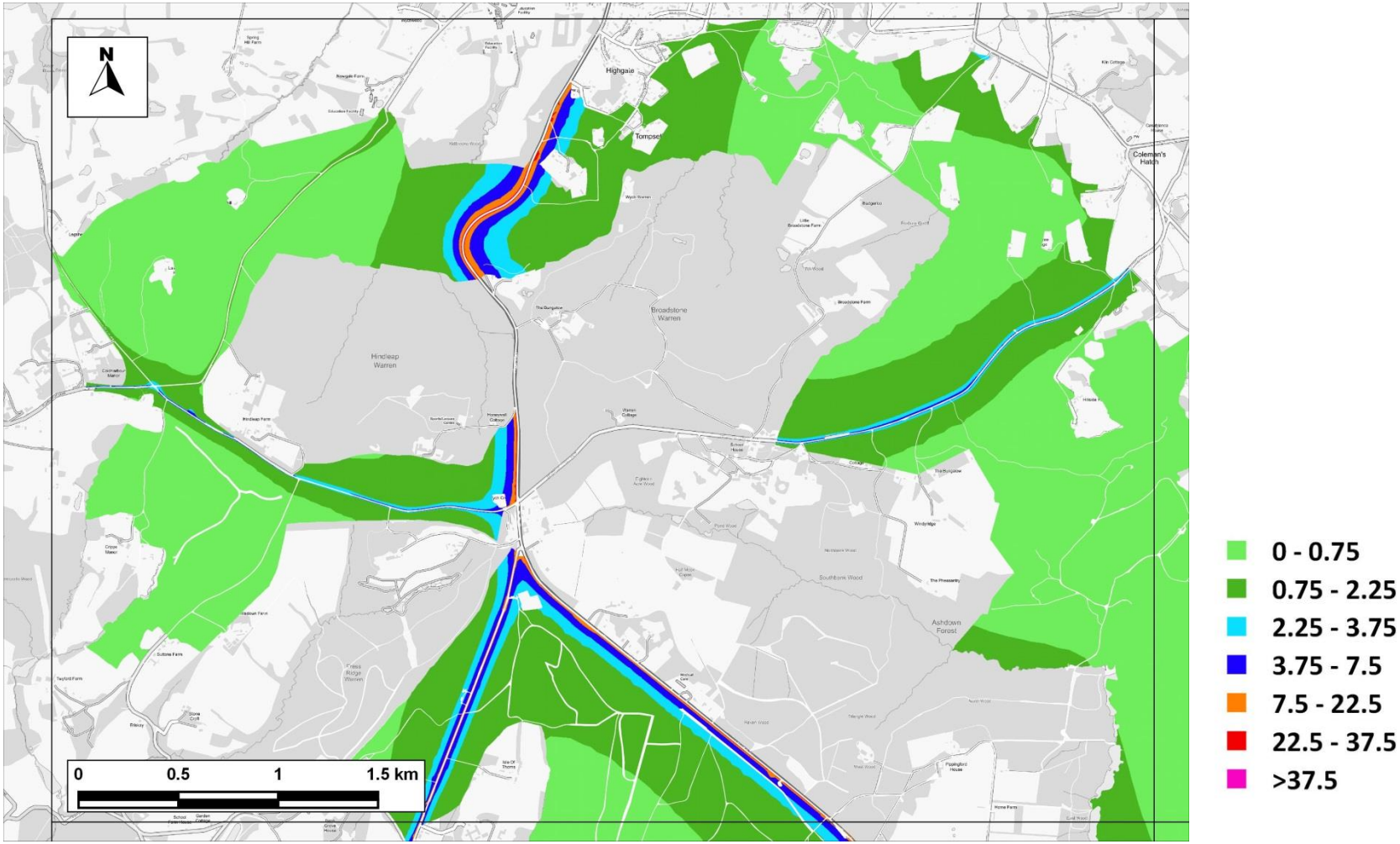


Figure A11.81: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario C (µg/m^3) – Northwest Section

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Figure A11.82: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario C (µg/m^3) – Northeast Section

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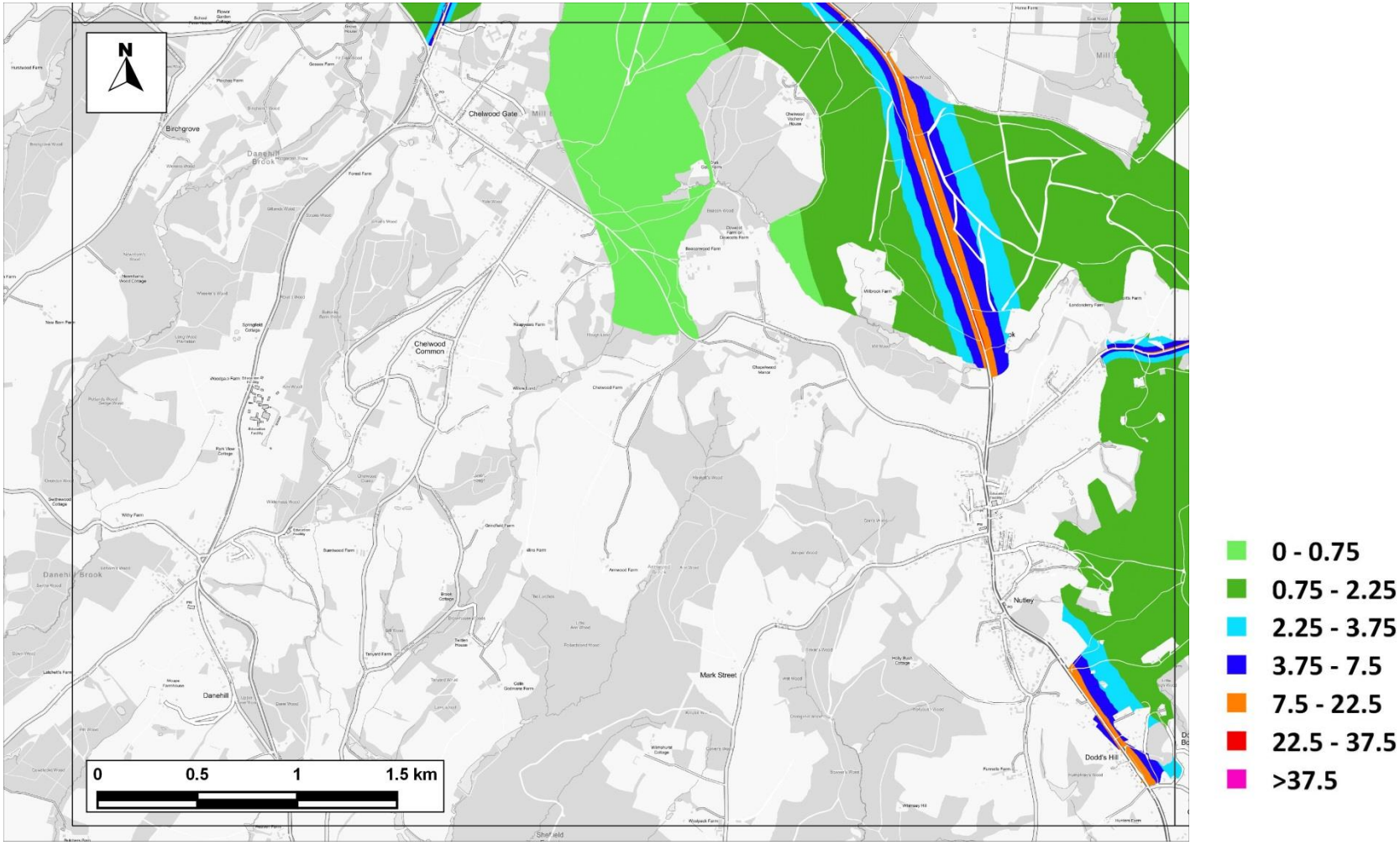


Figure A11.83: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario C (µg/m^3) – Southwest Section

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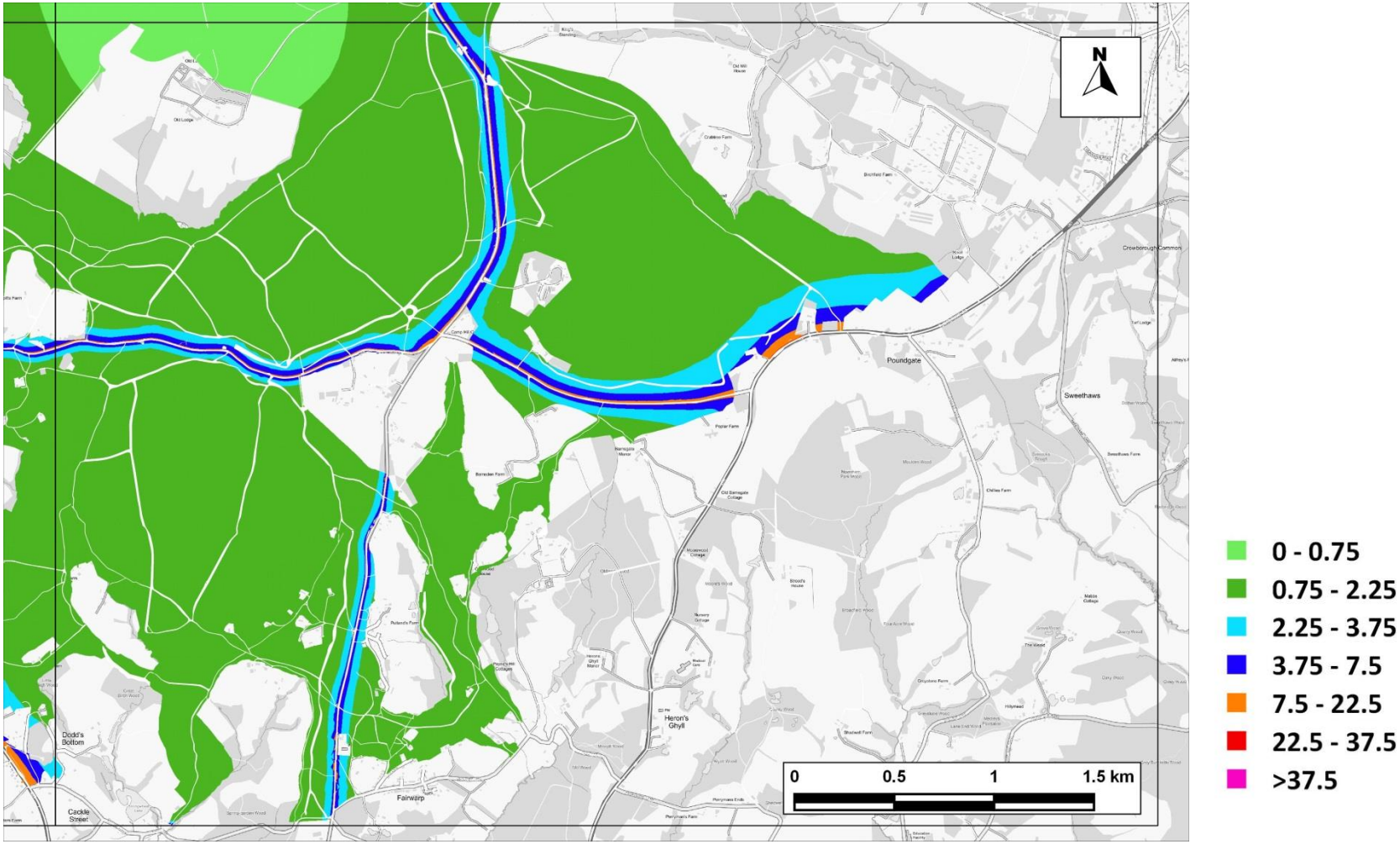


Figure A11.84: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' to 'No Growth' under Emissions Scenario C (µg/m^3) – Southeast Section

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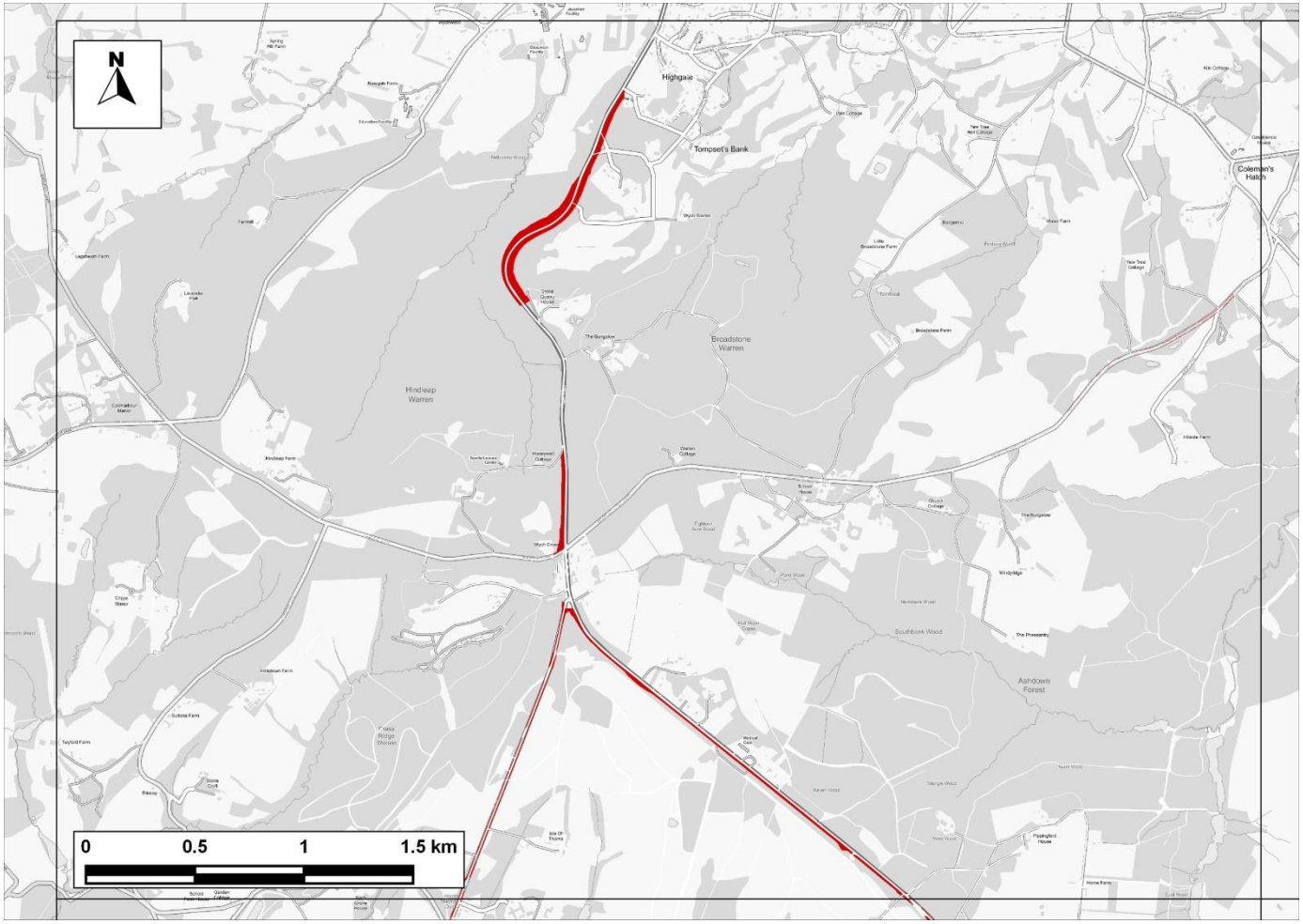


Figure A11.85: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A11.86: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northeast Section

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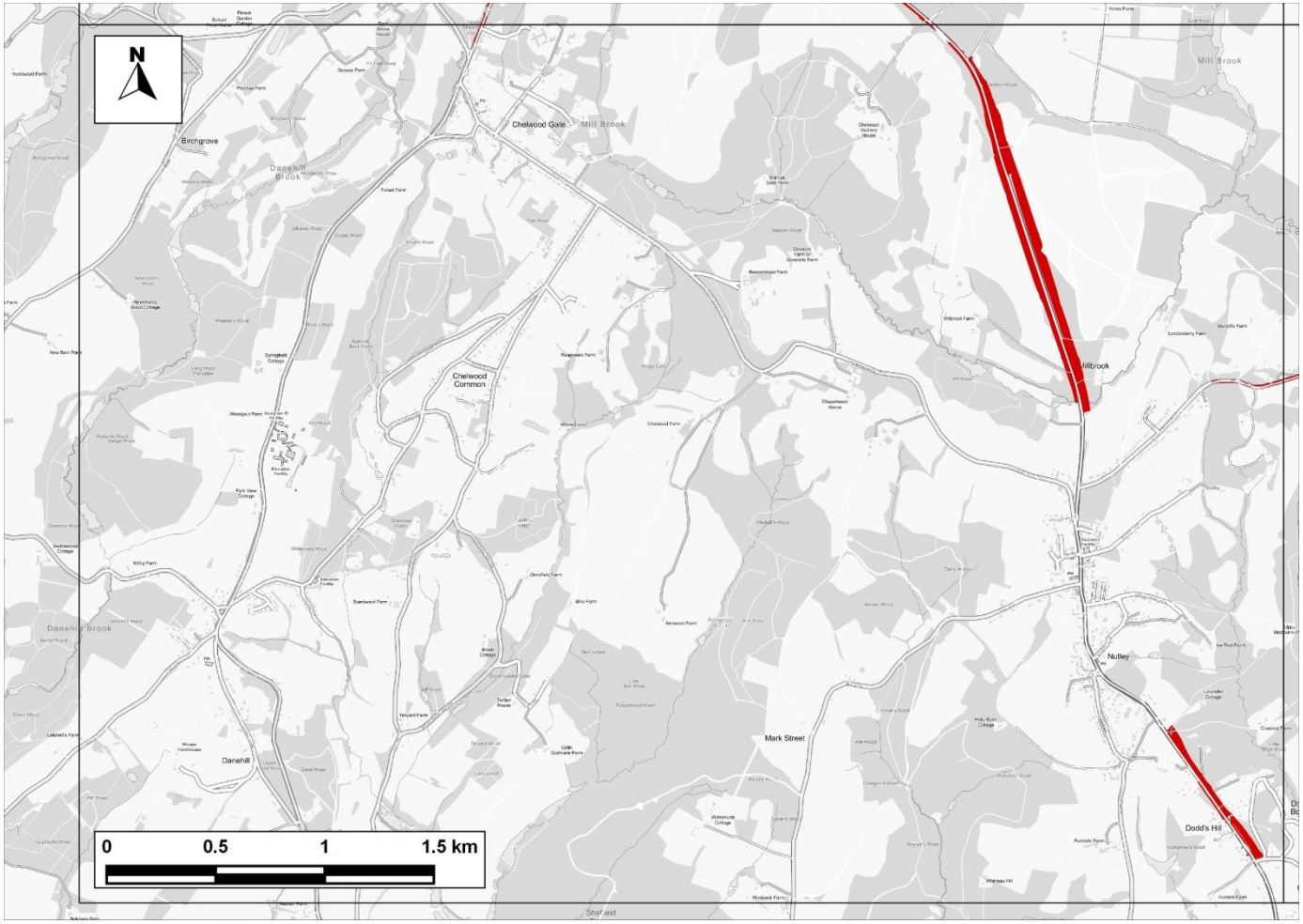


Figure A11.87: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southwest Section

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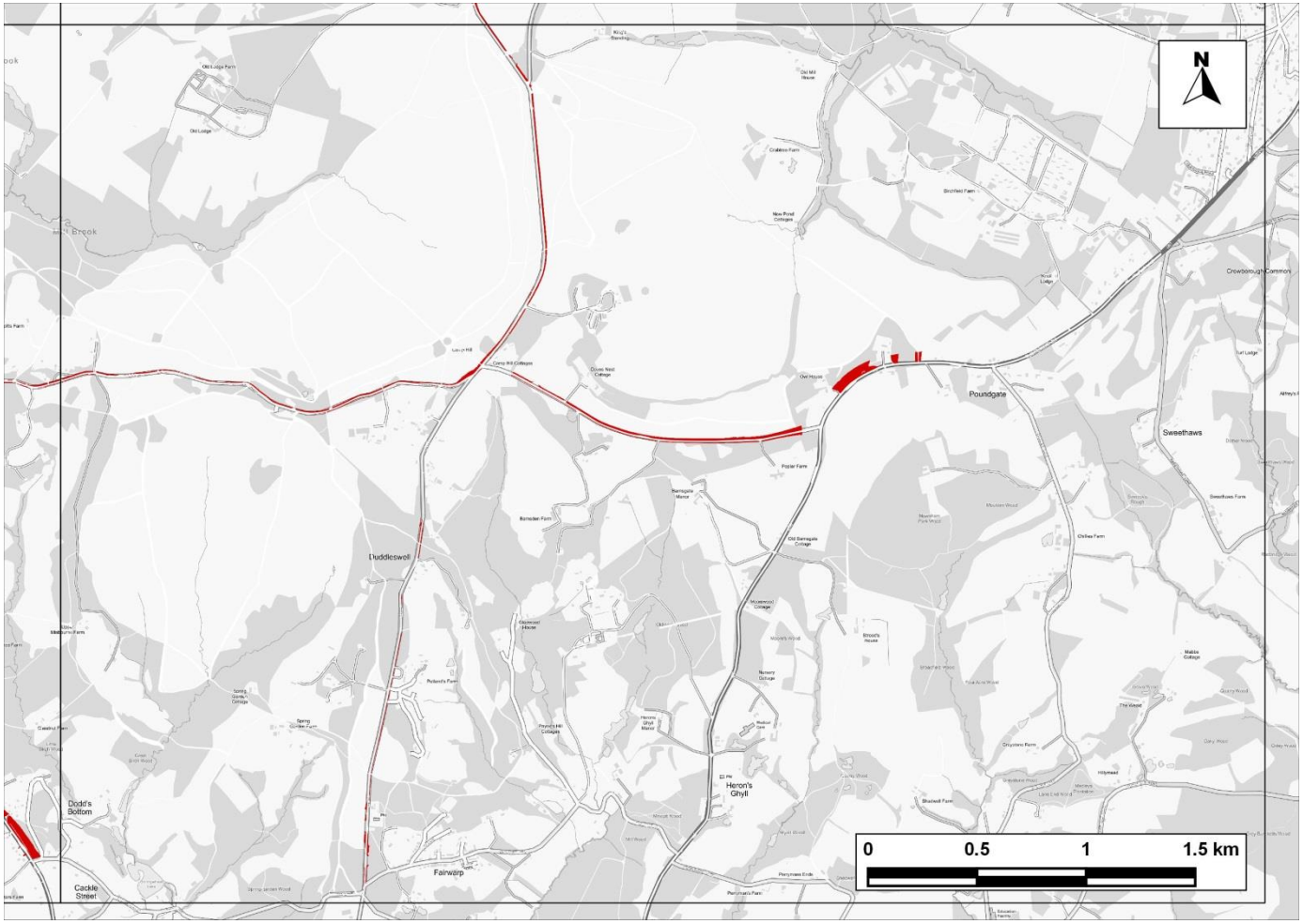


Figure A11.88: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southeast Section

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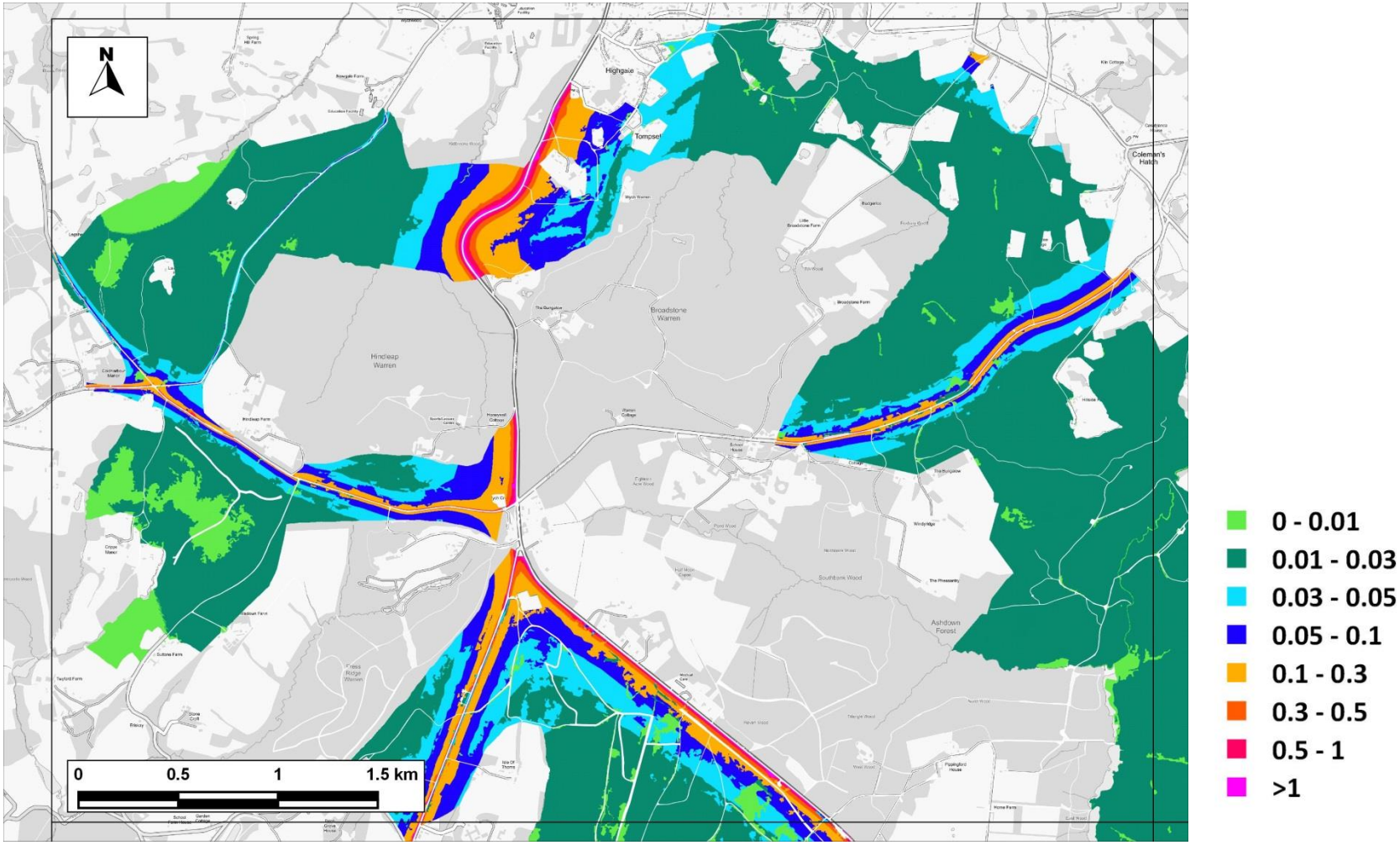


Figure A11.89: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northwest Section

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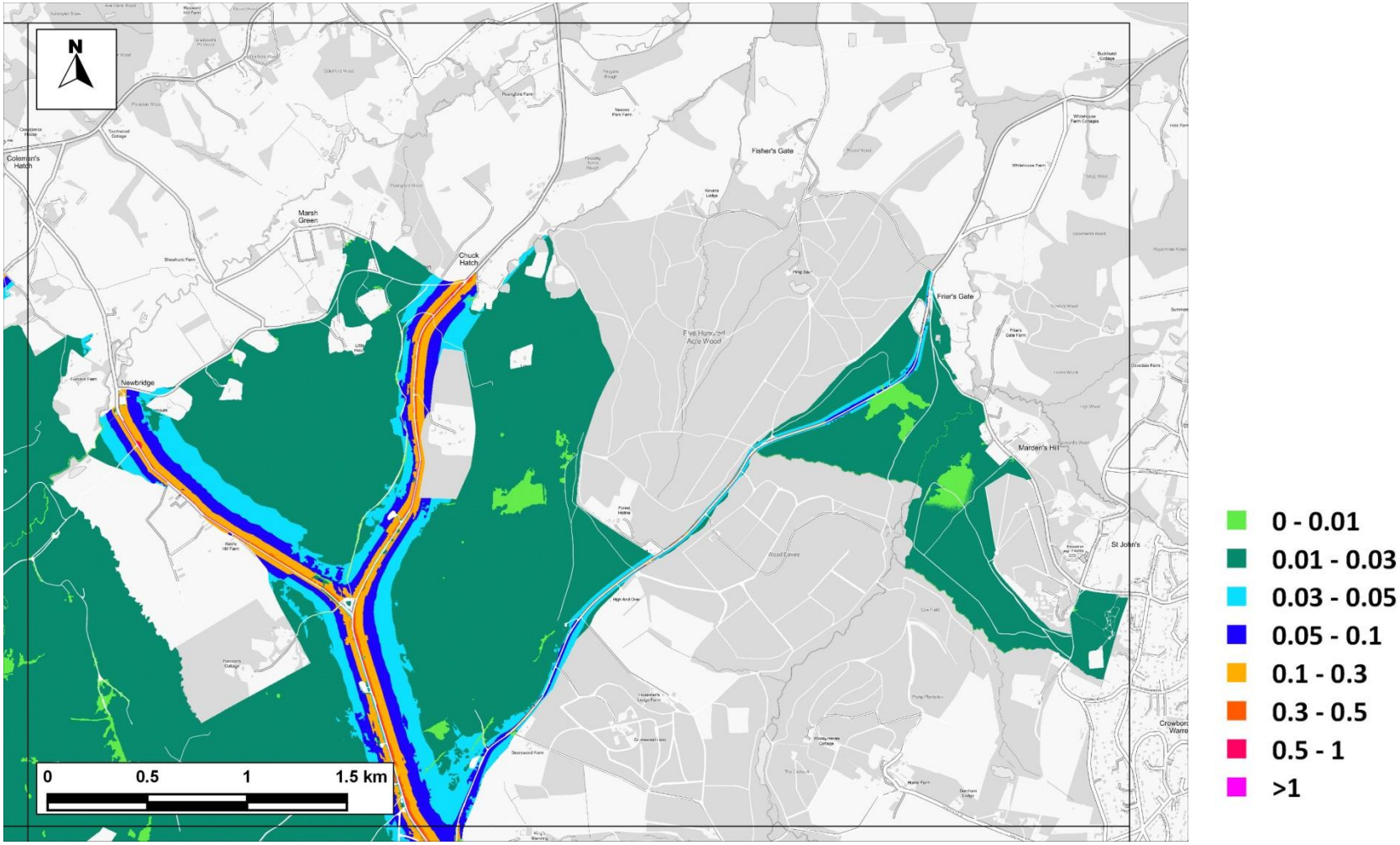


Figure A11.90: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northeast Section

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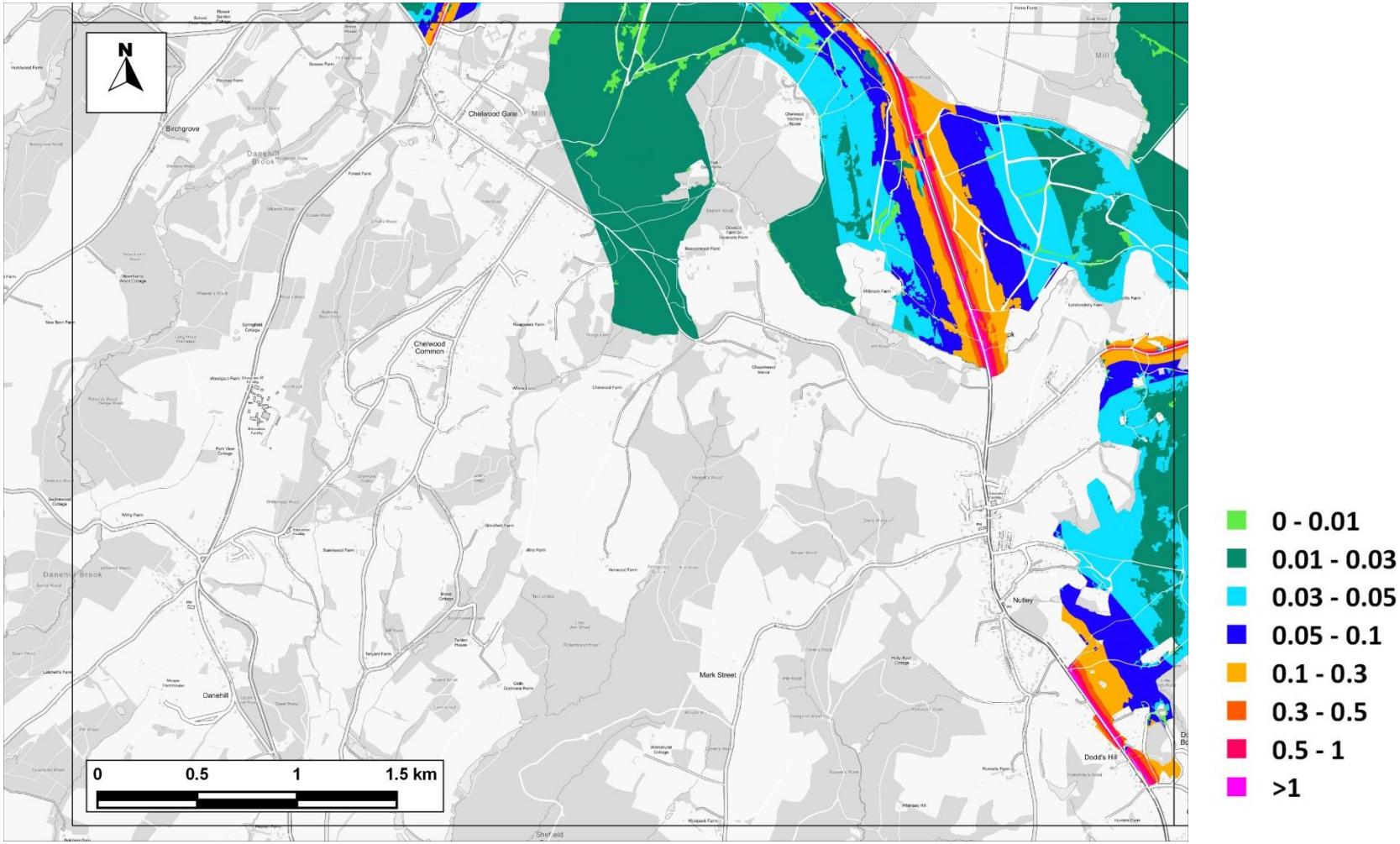


Figure A11.91: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southwest Section

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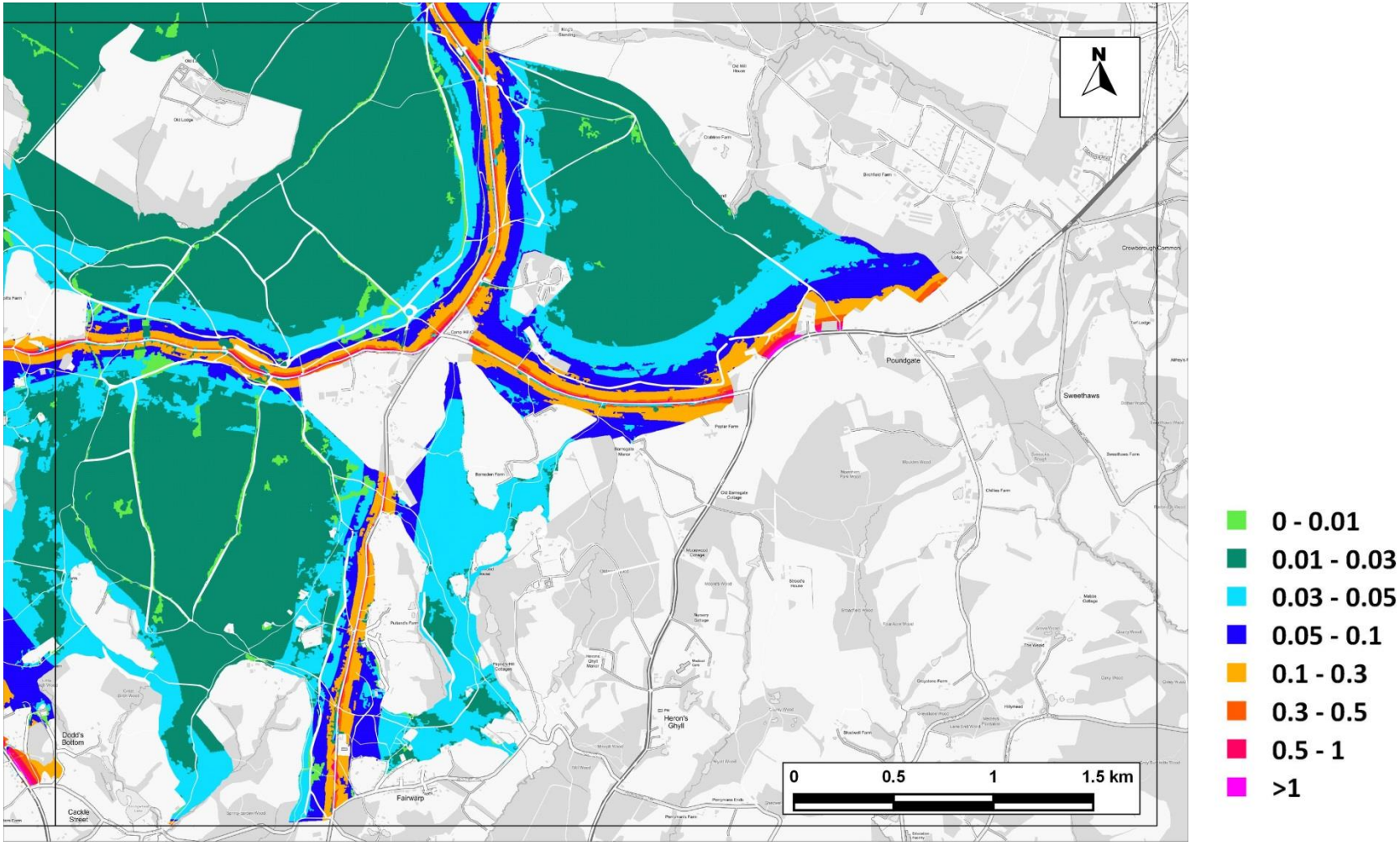


Figure A11.92: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southeast Section

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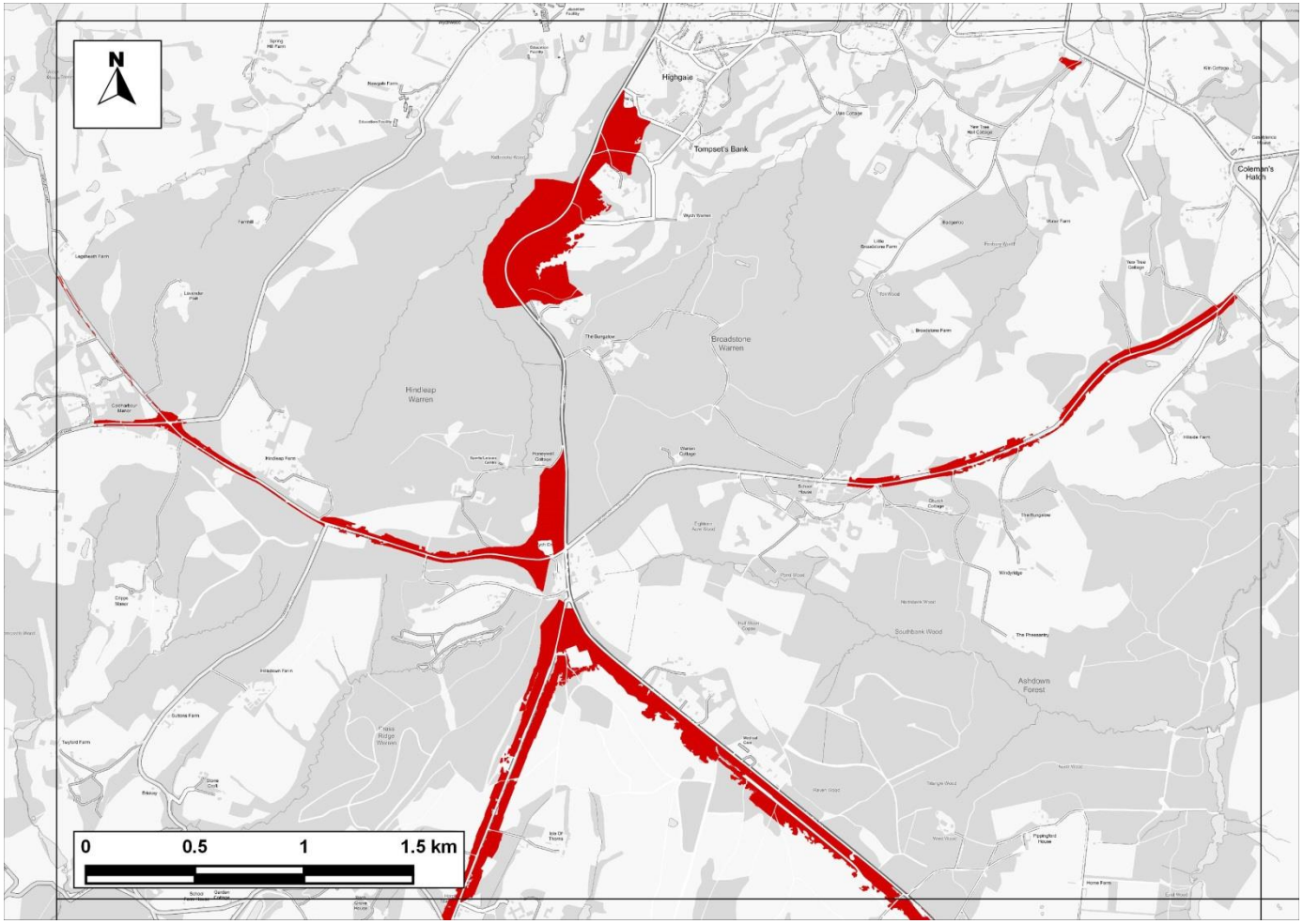


Figure A11.93: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Northwest Section

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Figure A11.94: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Northeast Section

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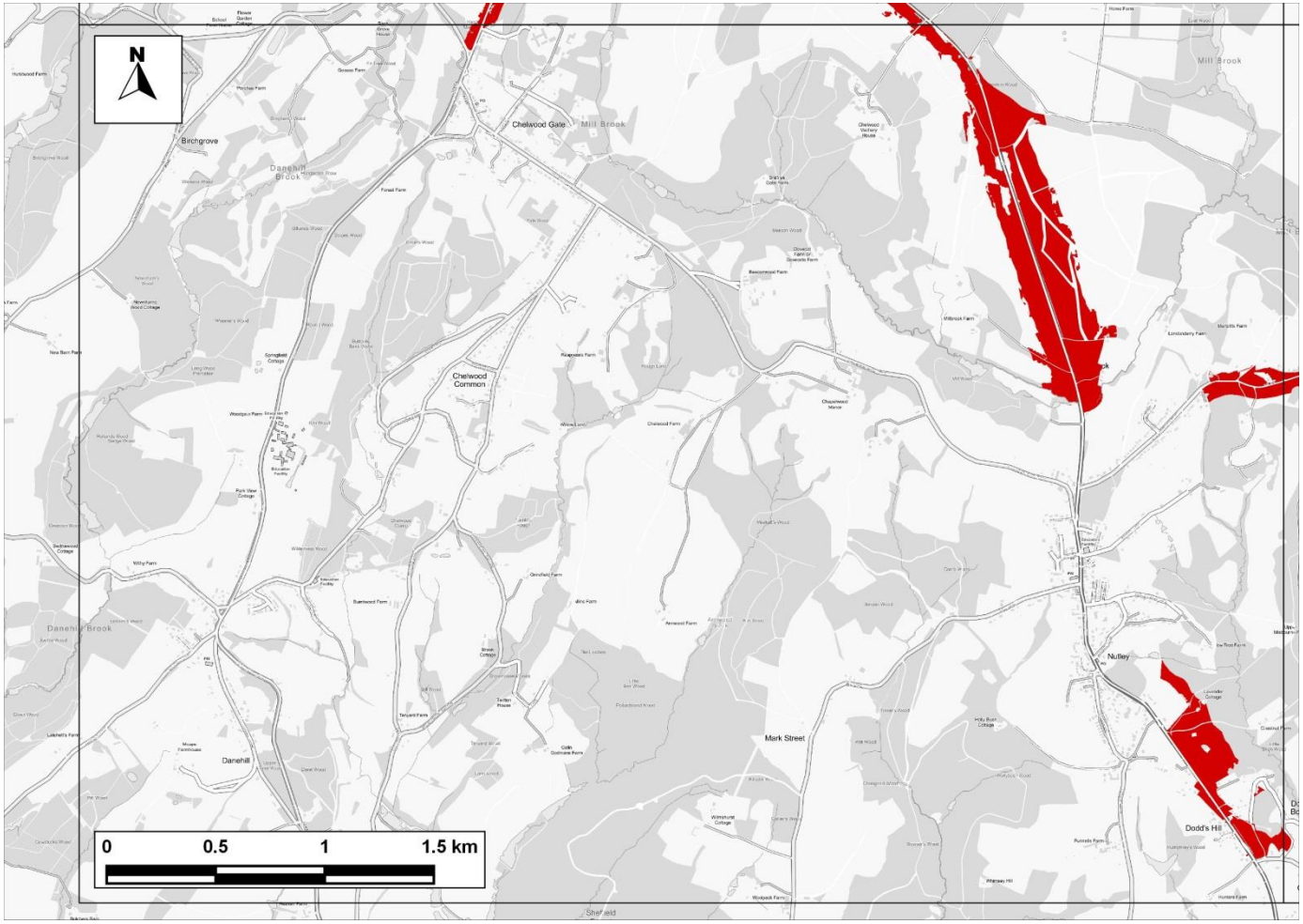


Figure A11.95: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Southwest Section

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Figure A11.96 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Southeast Section

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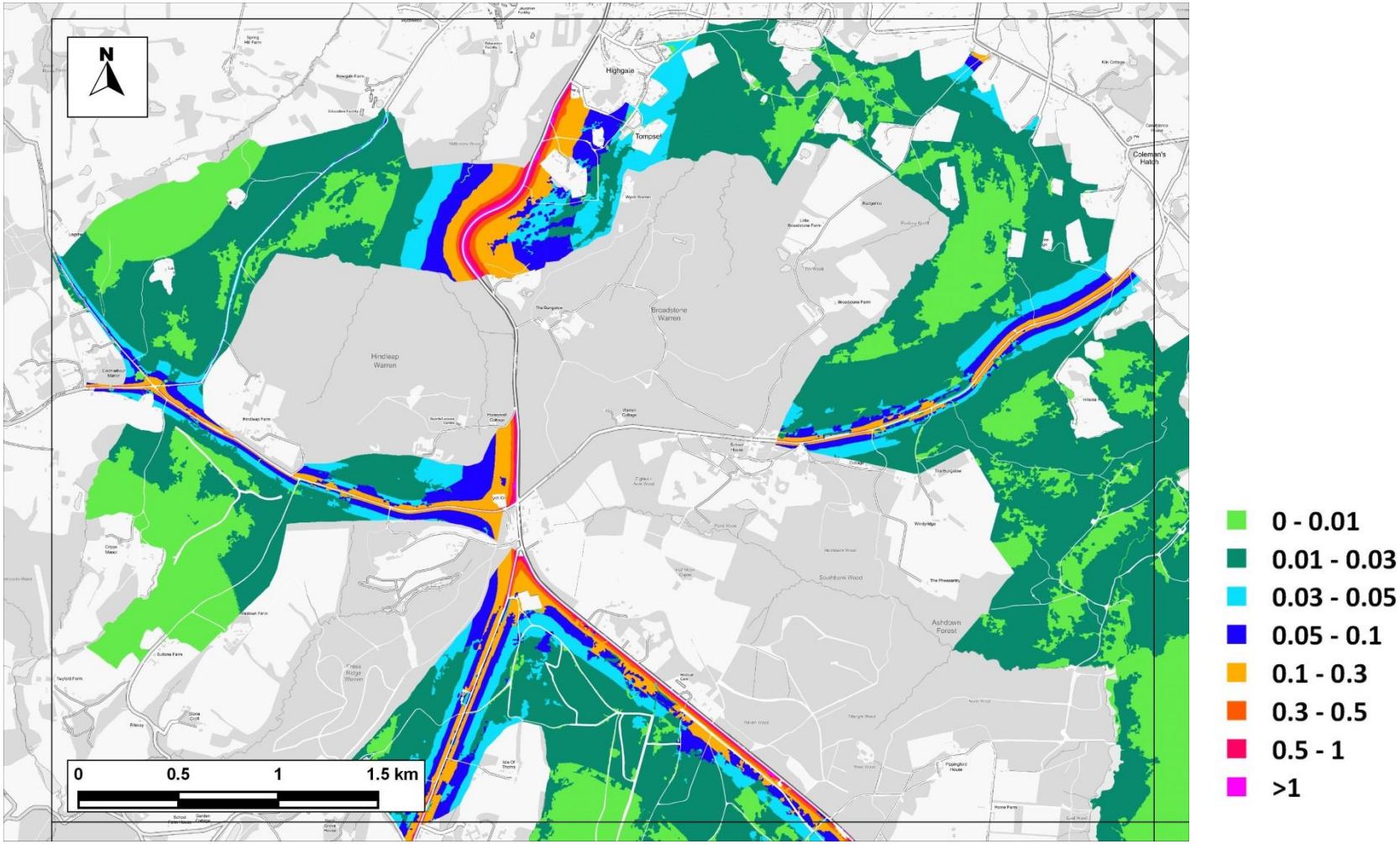


Figure A11.97: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northwest Section

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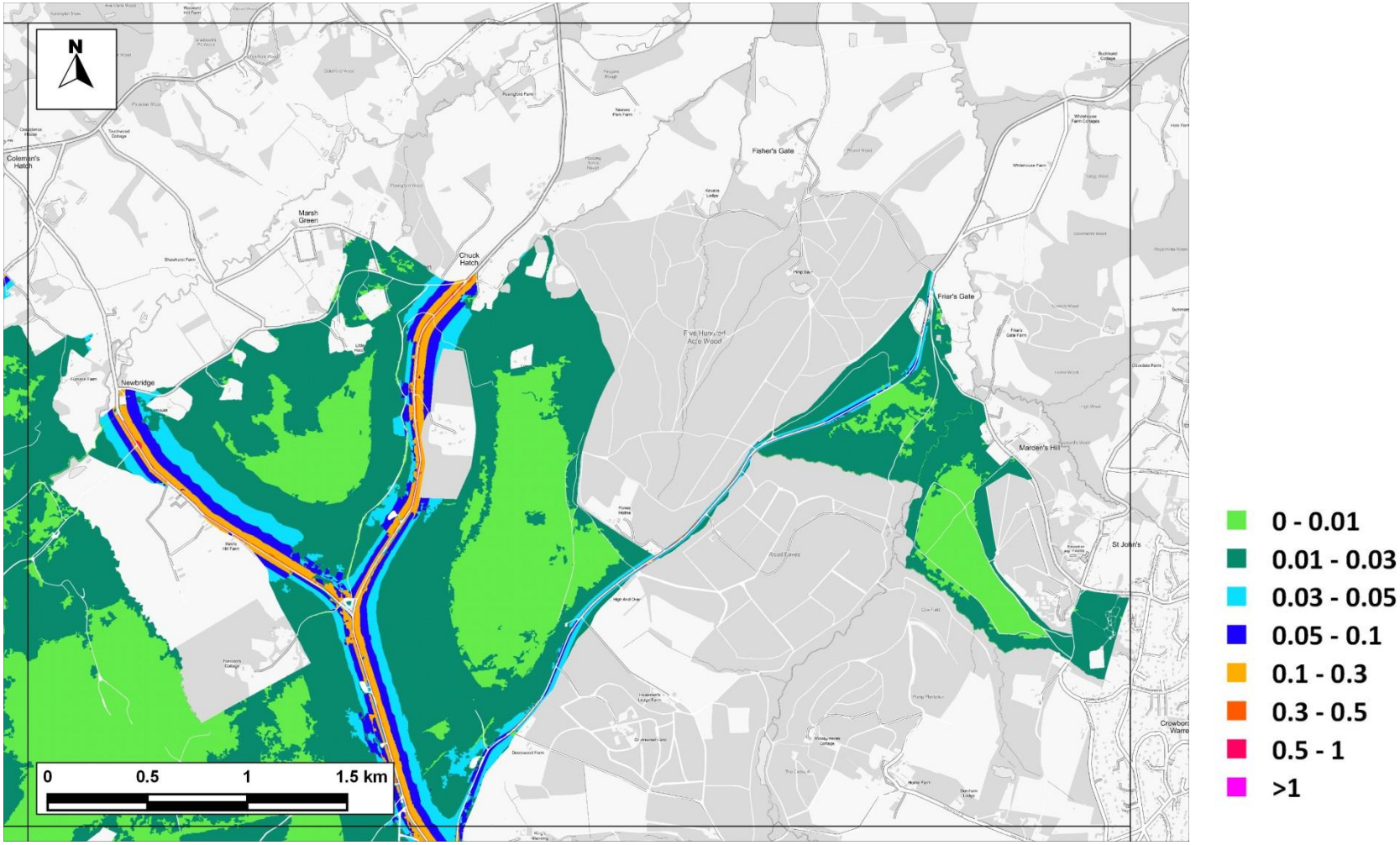


Figure A11.98: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northeast Section

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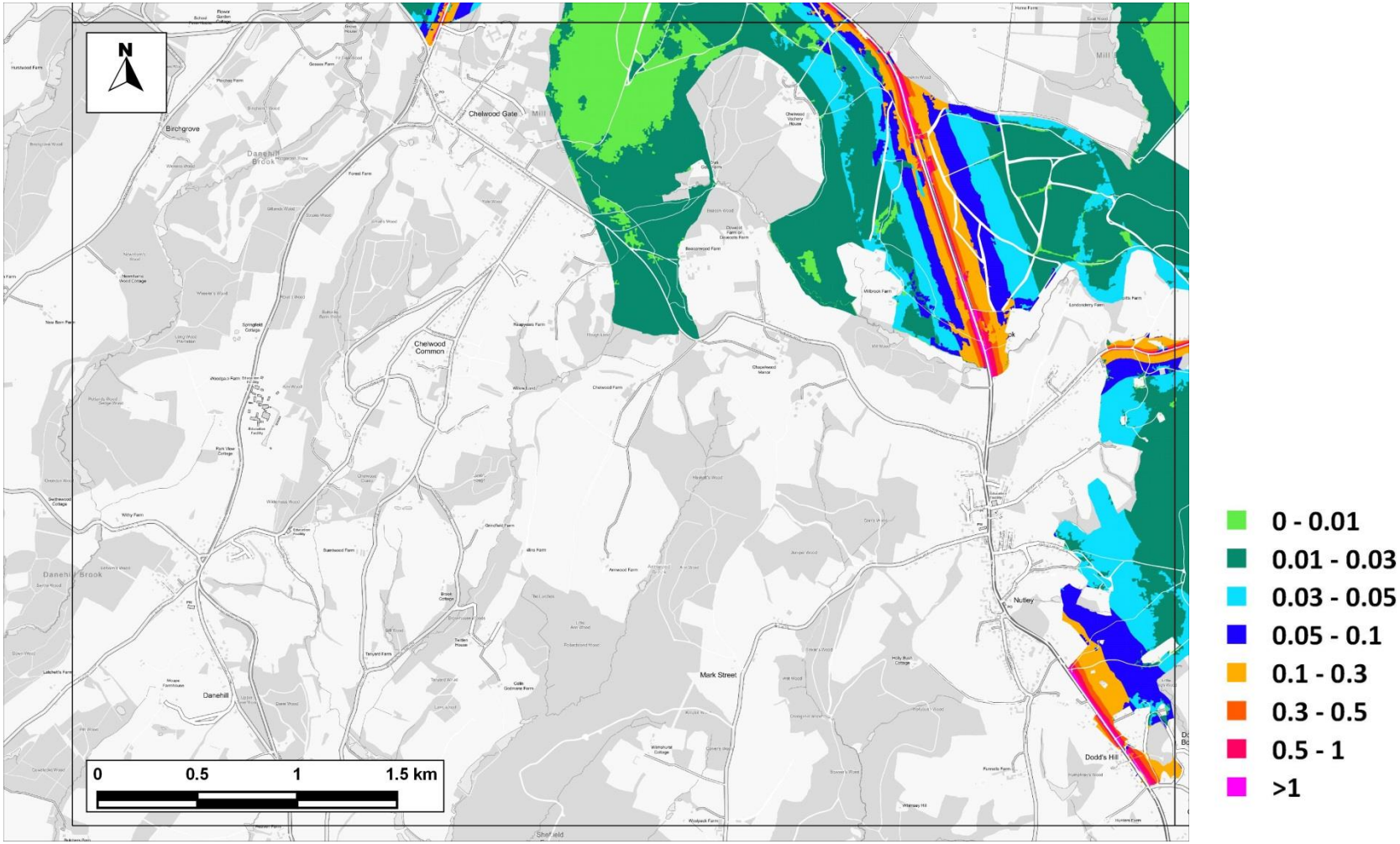


Figure A11.99: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southwest Section

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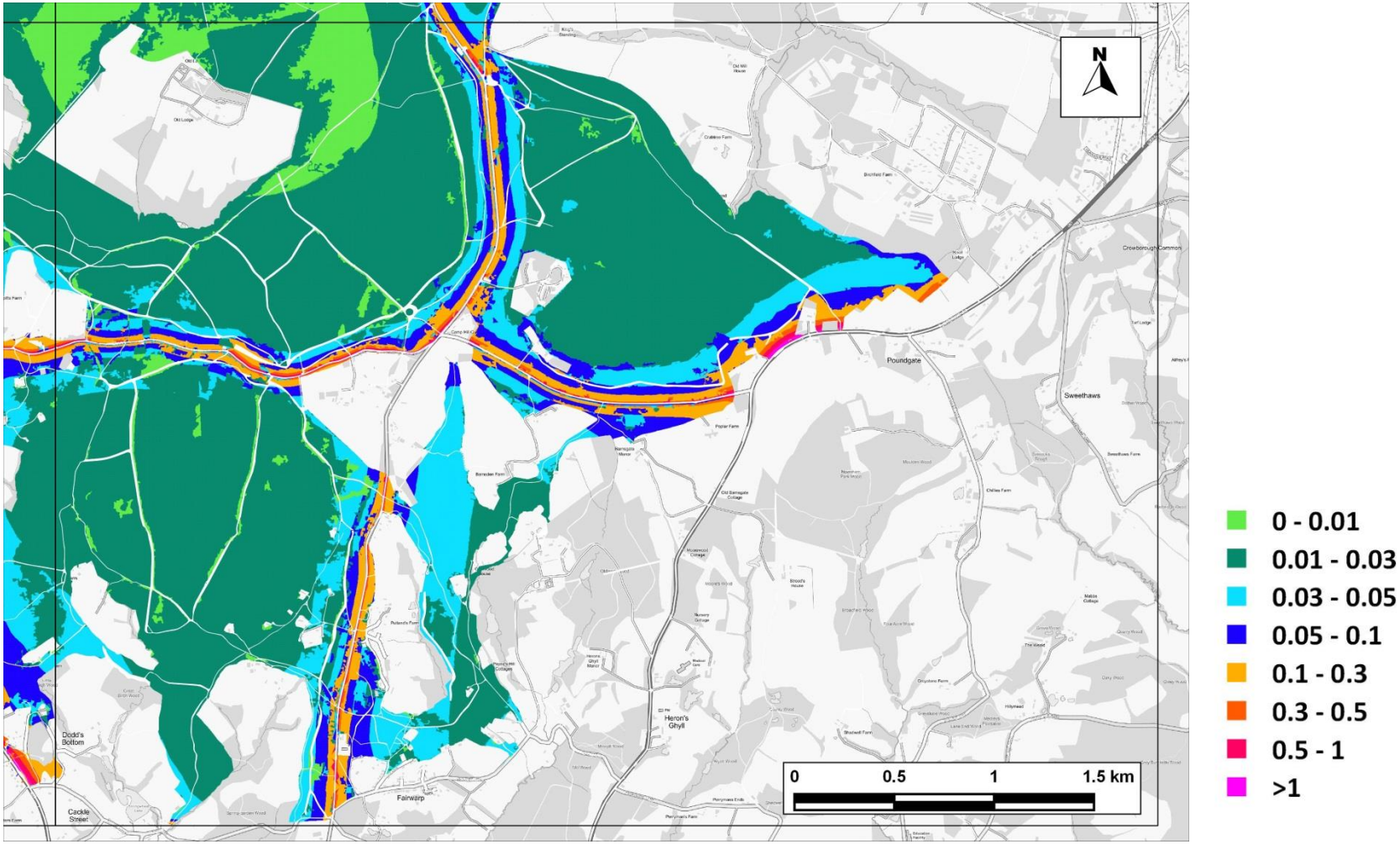


Figure A11.100: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southeast Section

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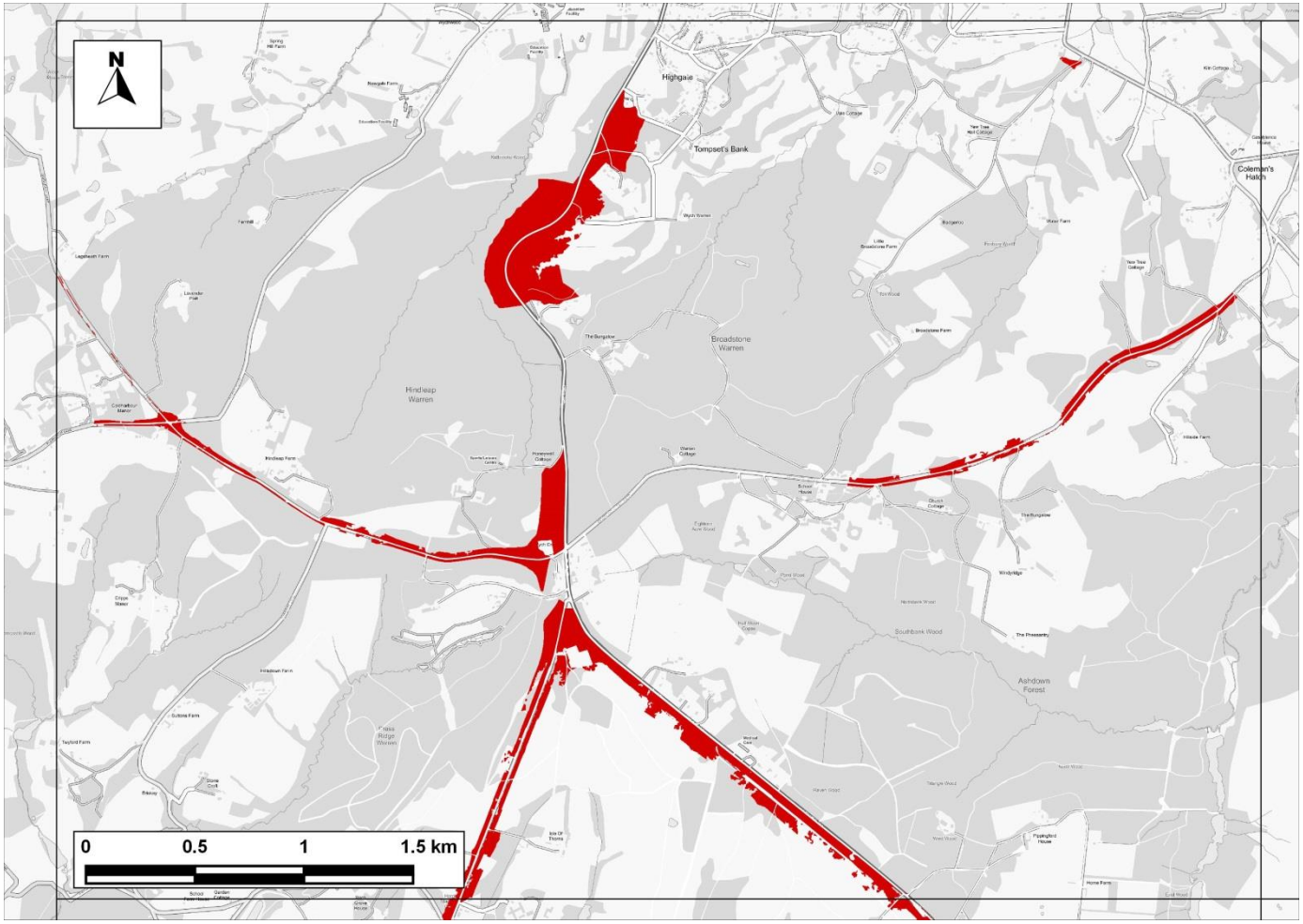


Figure A11.101: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Northwest Section

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Figure A11.102: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Northeast Section

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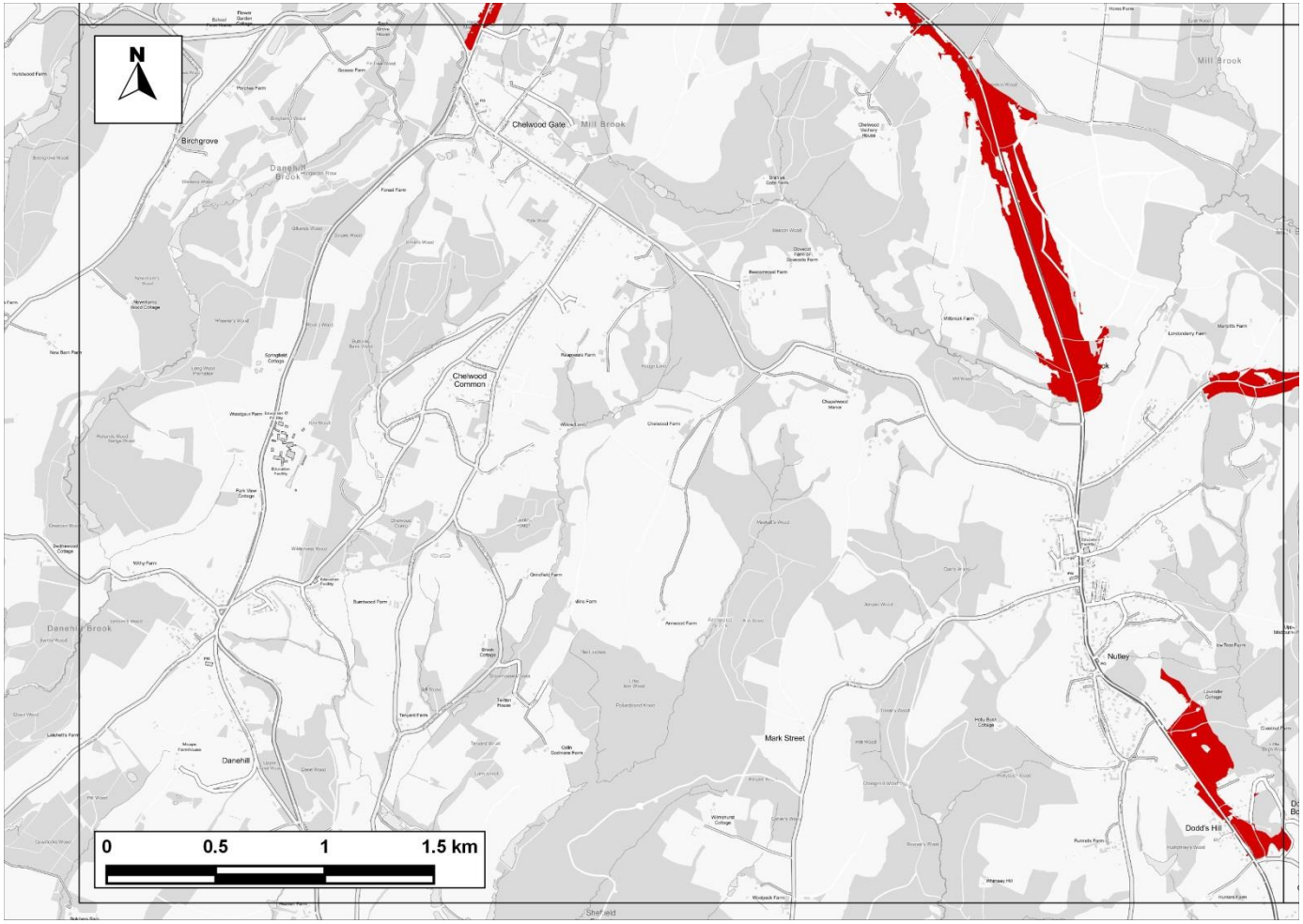


Figure A11.103: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Southwest Section

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Figure A11.104 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Southeast Section

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Appendix 12. Maps of Changes Caused by Local Plan In Combination with Other Predicted Traffic Growth and National and International Emissions Projections

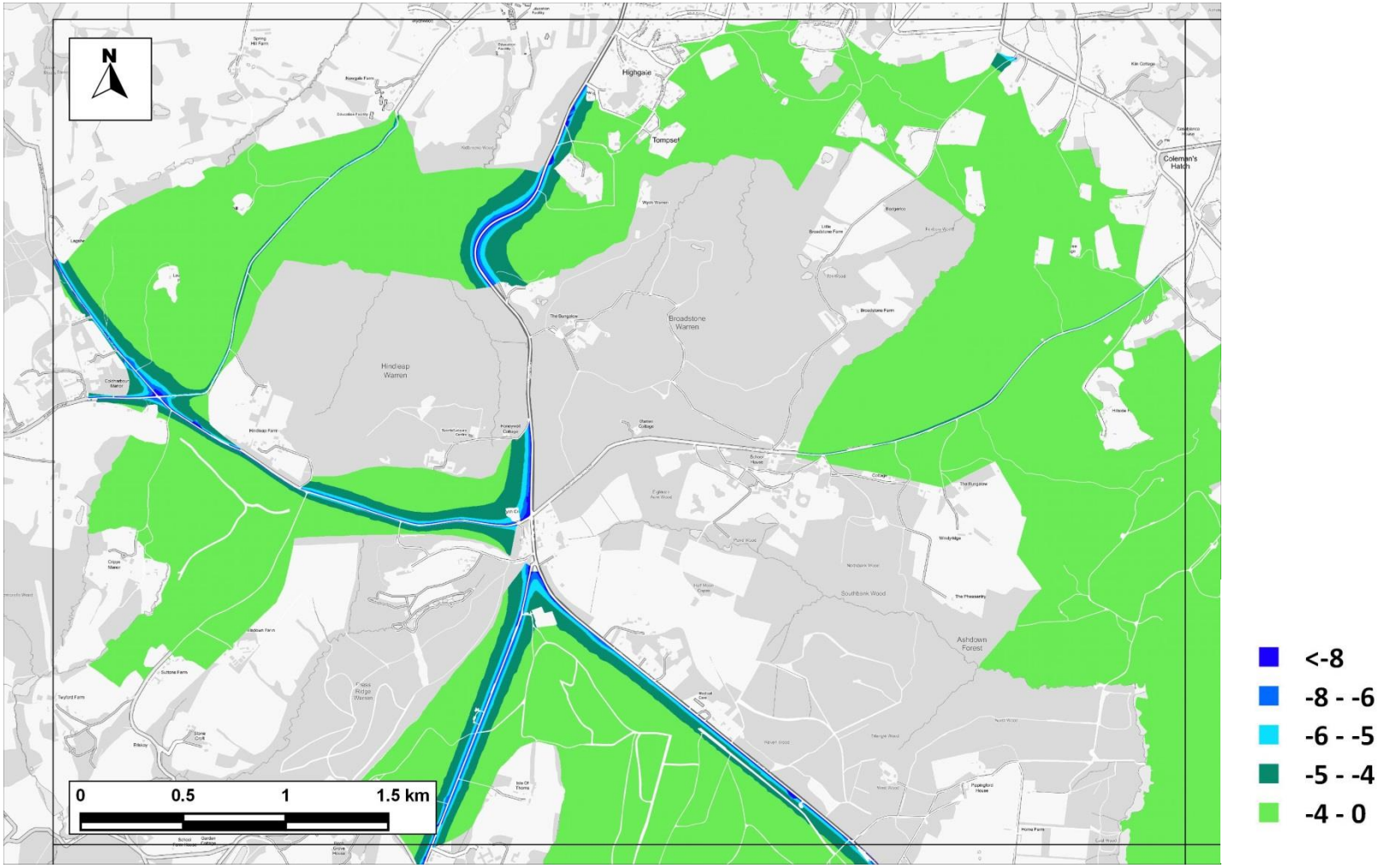


Figure A12.1: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Northwest Section

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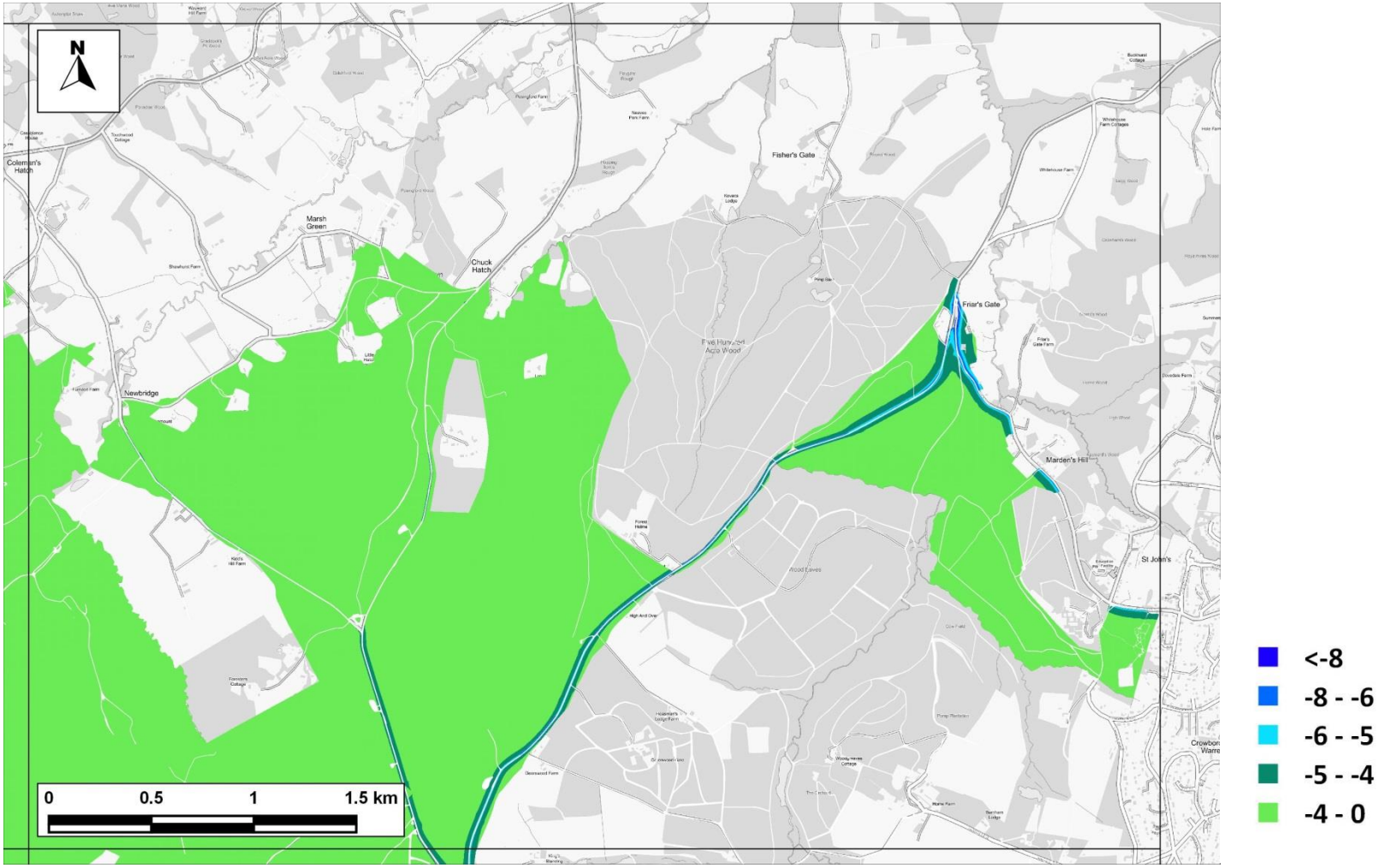


Figure A12.2: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Northeast Section

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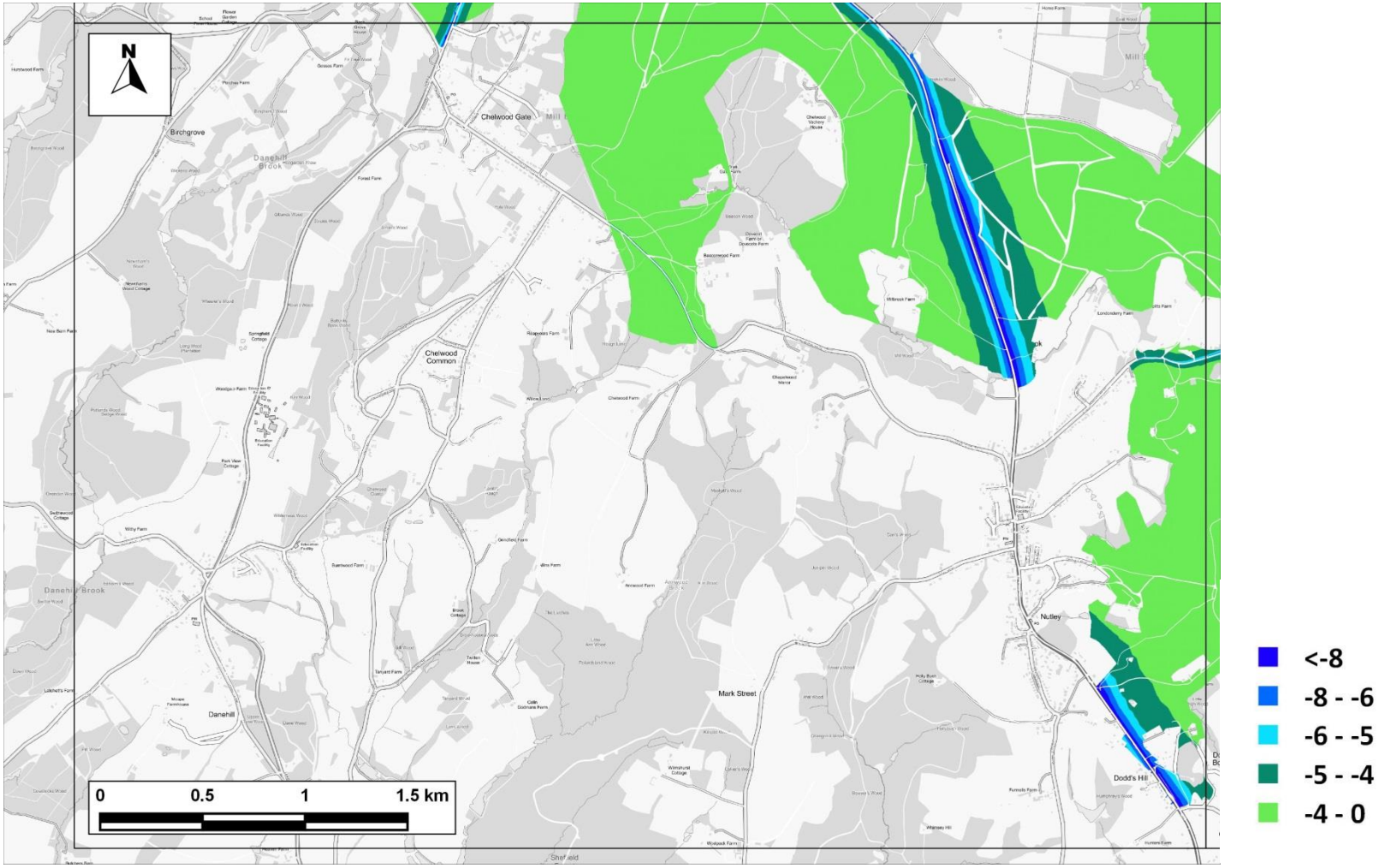


Figure A12.3: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3)– Southwest Section

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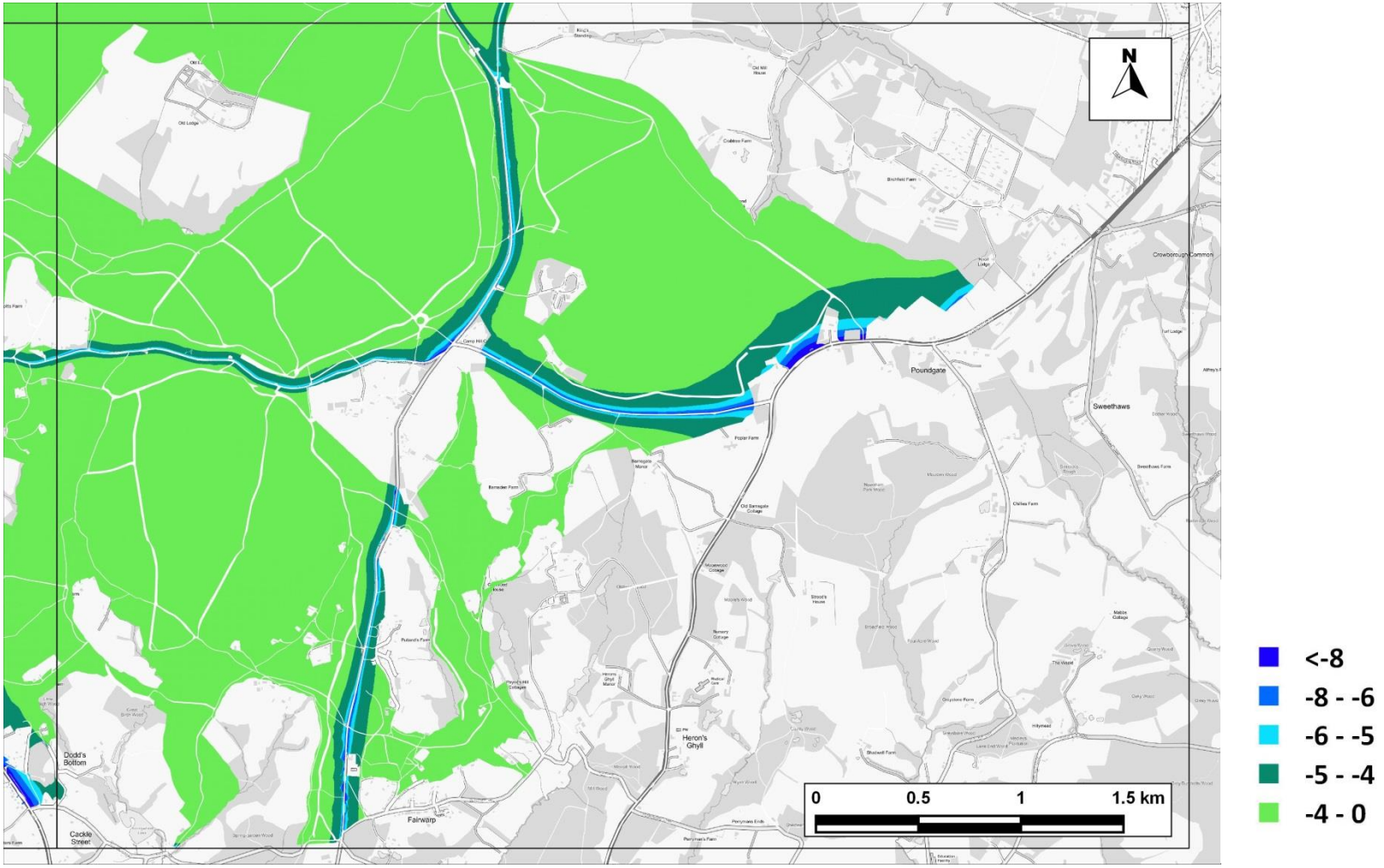


Figure A12.4: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Southeast Section

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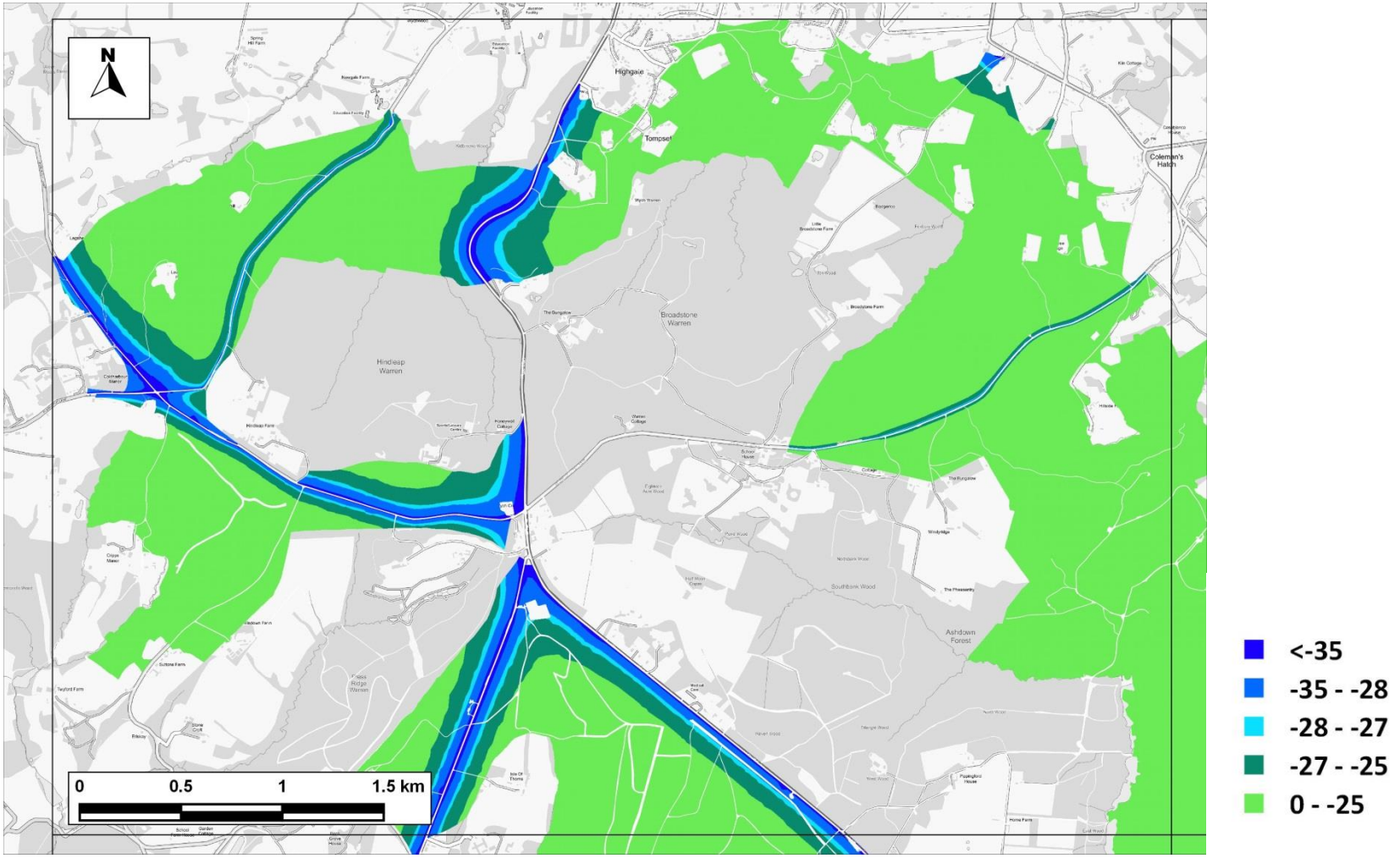


Figure A12.5: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Northwest Section

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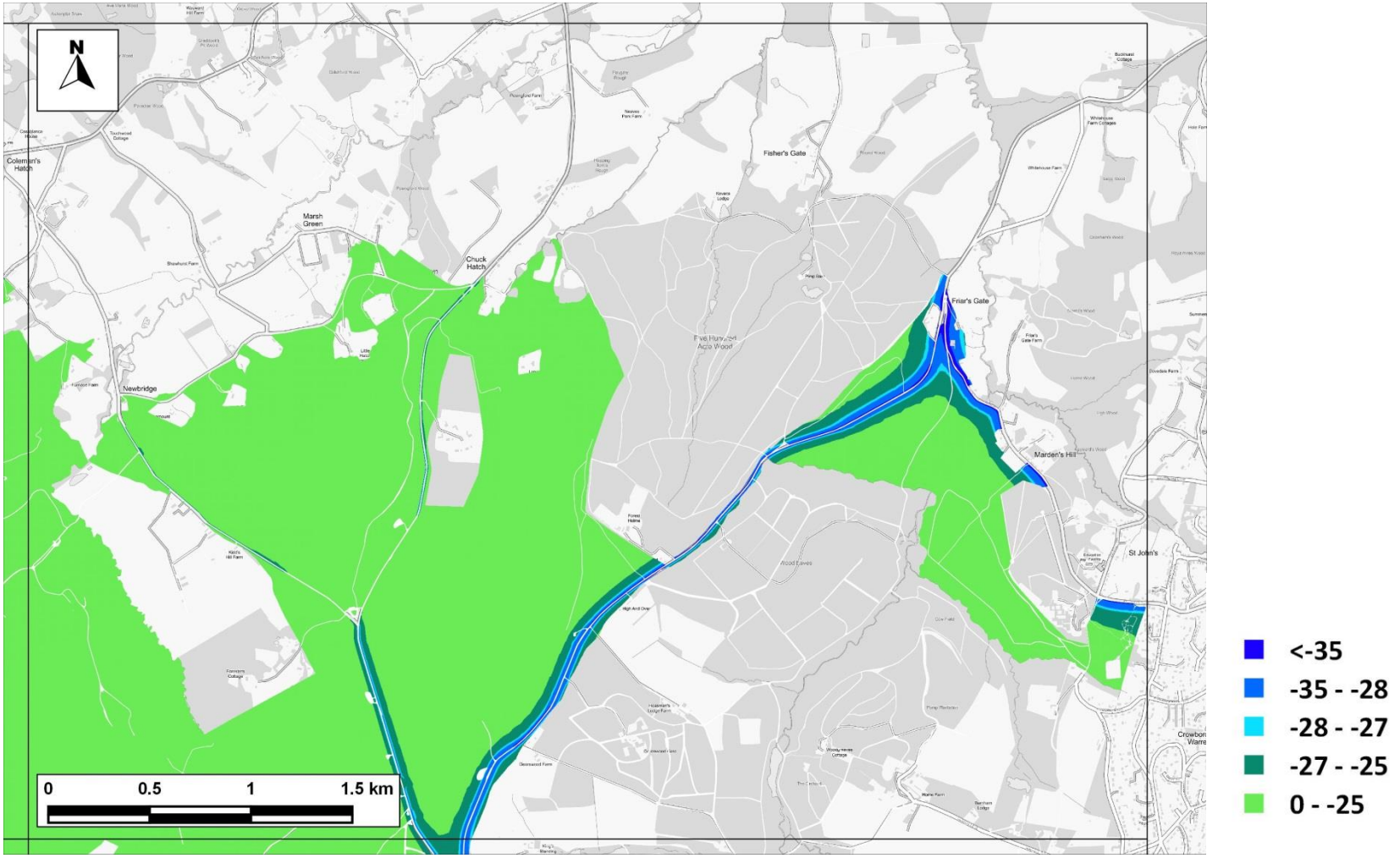


Figure A12.6: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Northeast Section

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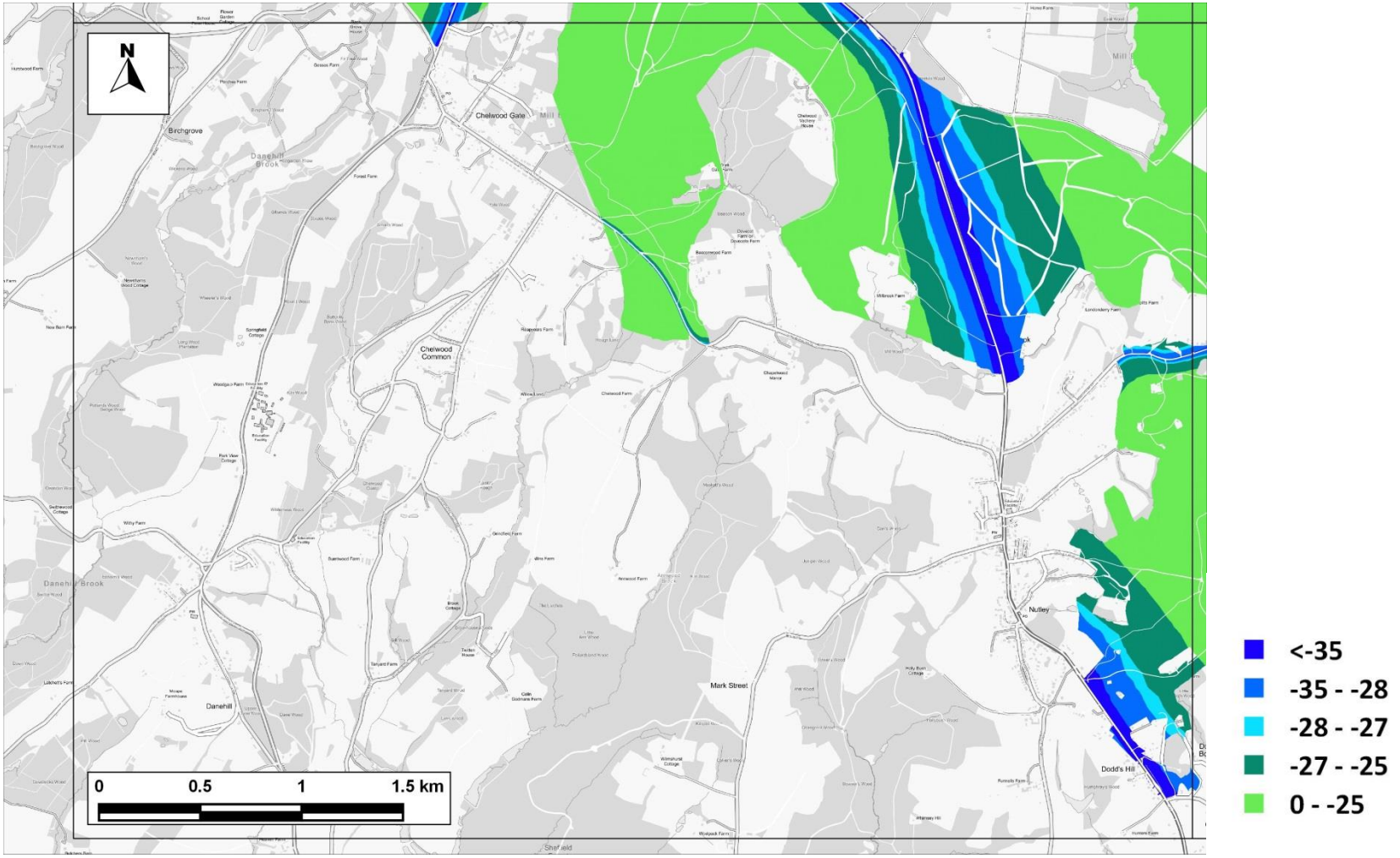


Figure A12.7: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Southwest Section

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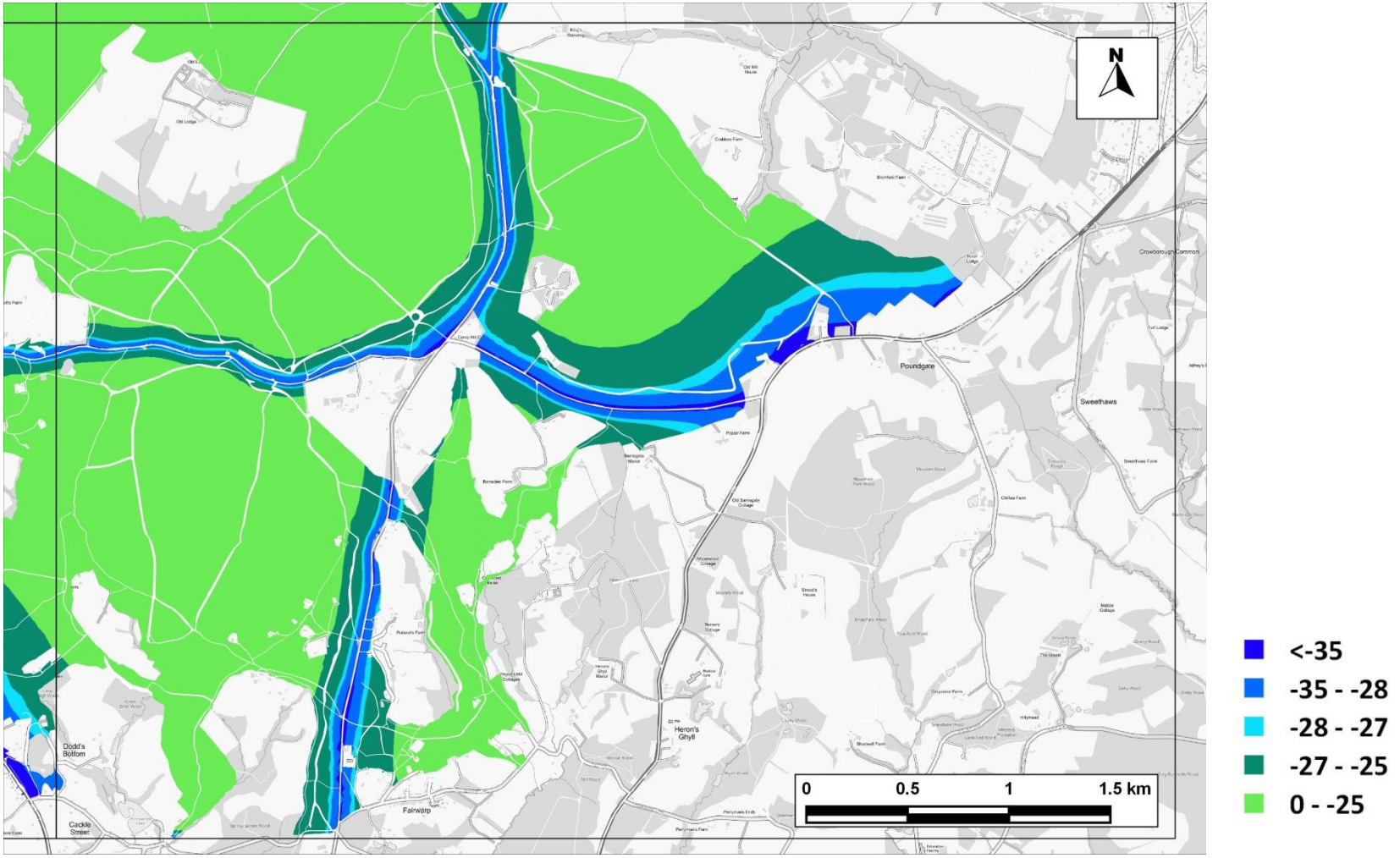


Figure A12.8: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emissions Scenario A (µg/m^3) – Southeast Section

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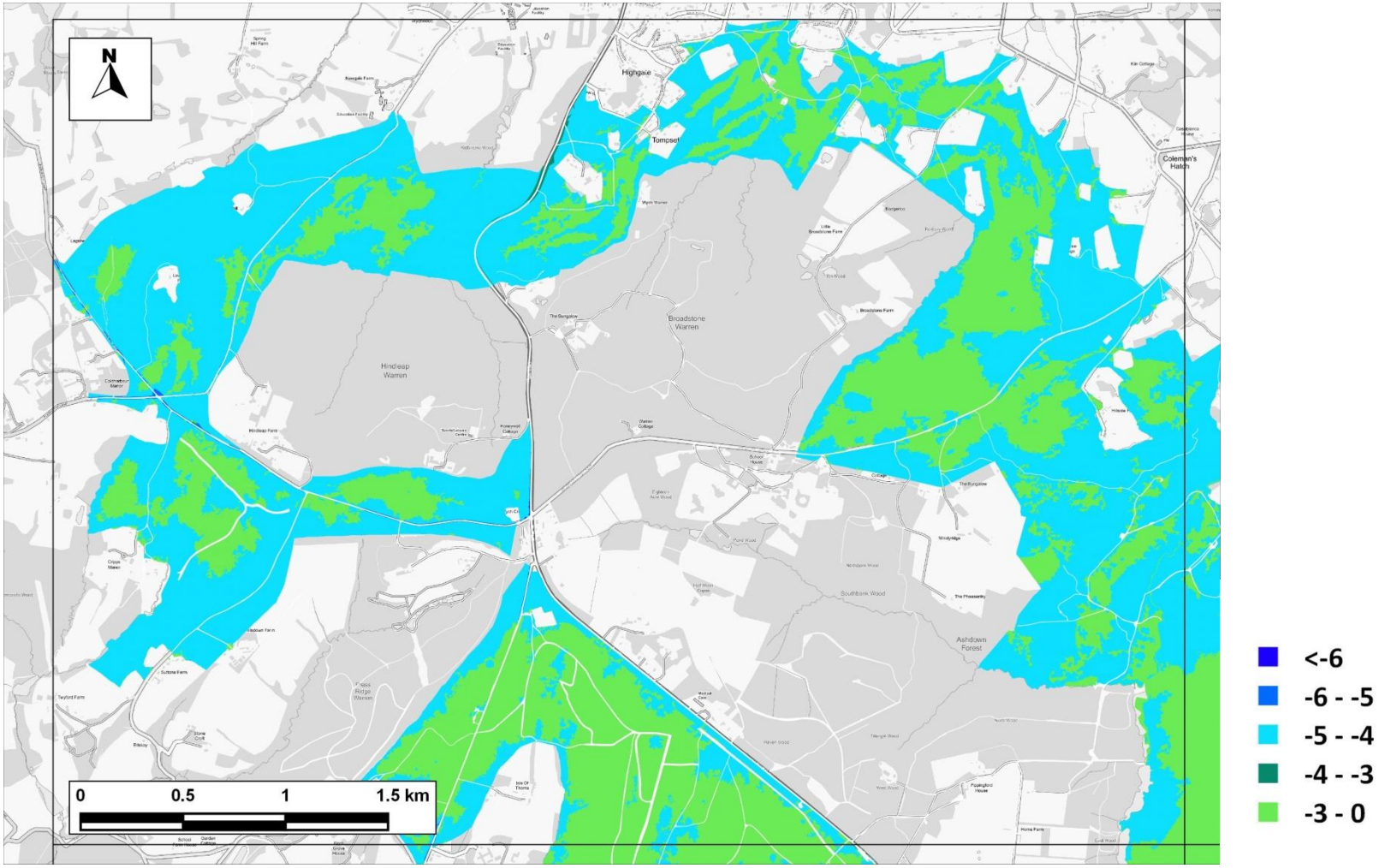


Figure A12.9: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.10: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Northeast Section

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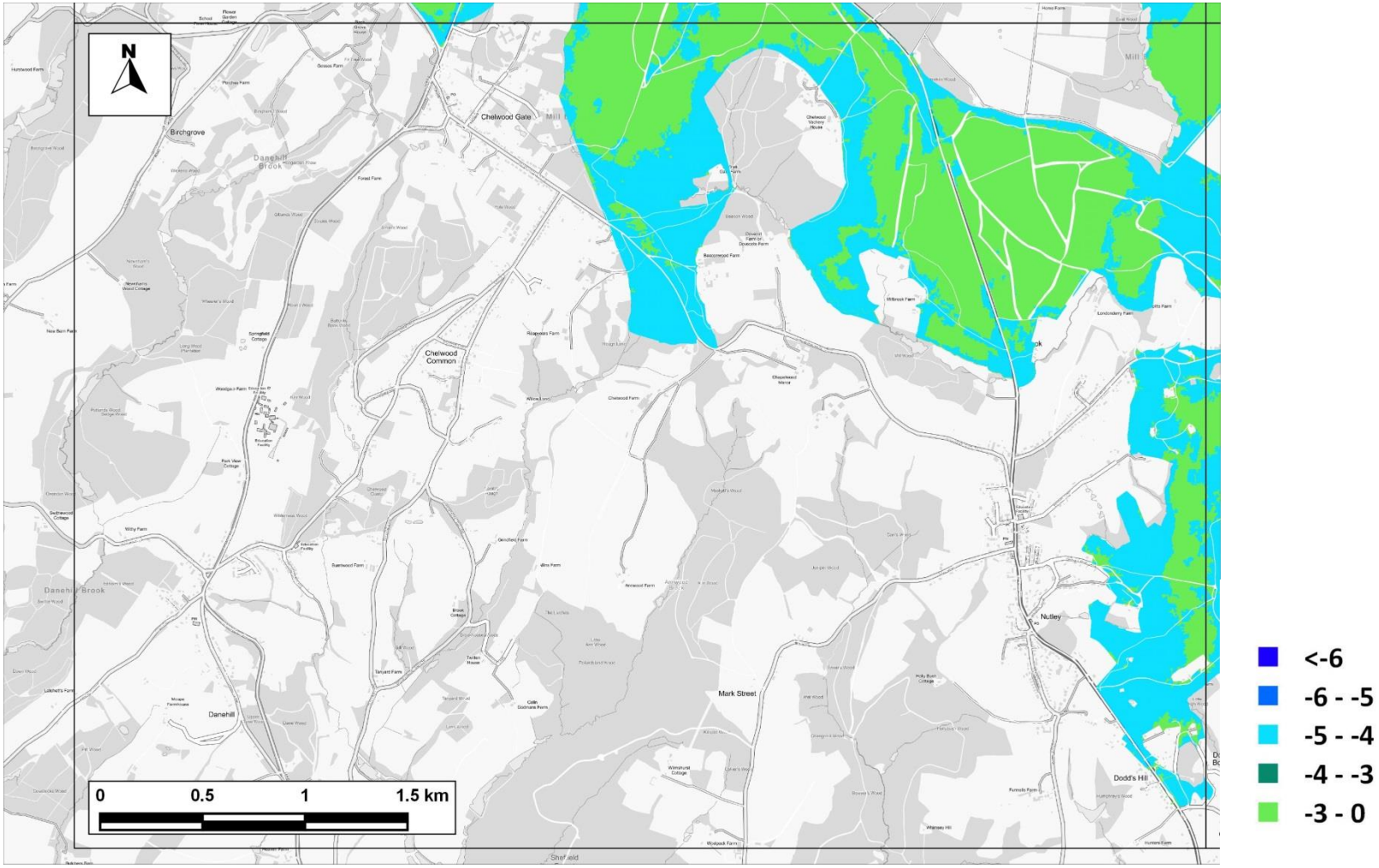


Figure A12.11: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Southwest Section

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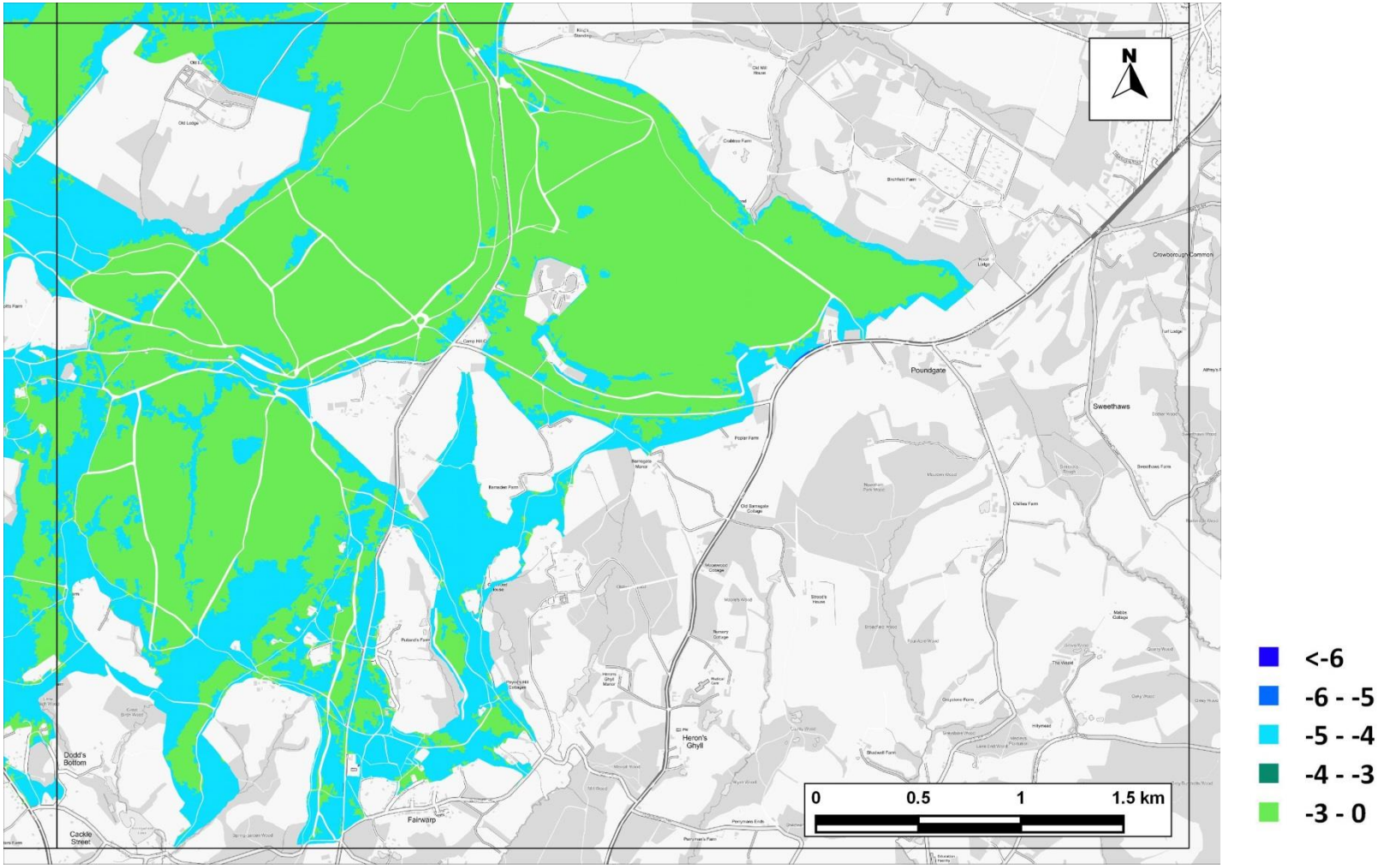


Figure A12.12: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Southeast Section

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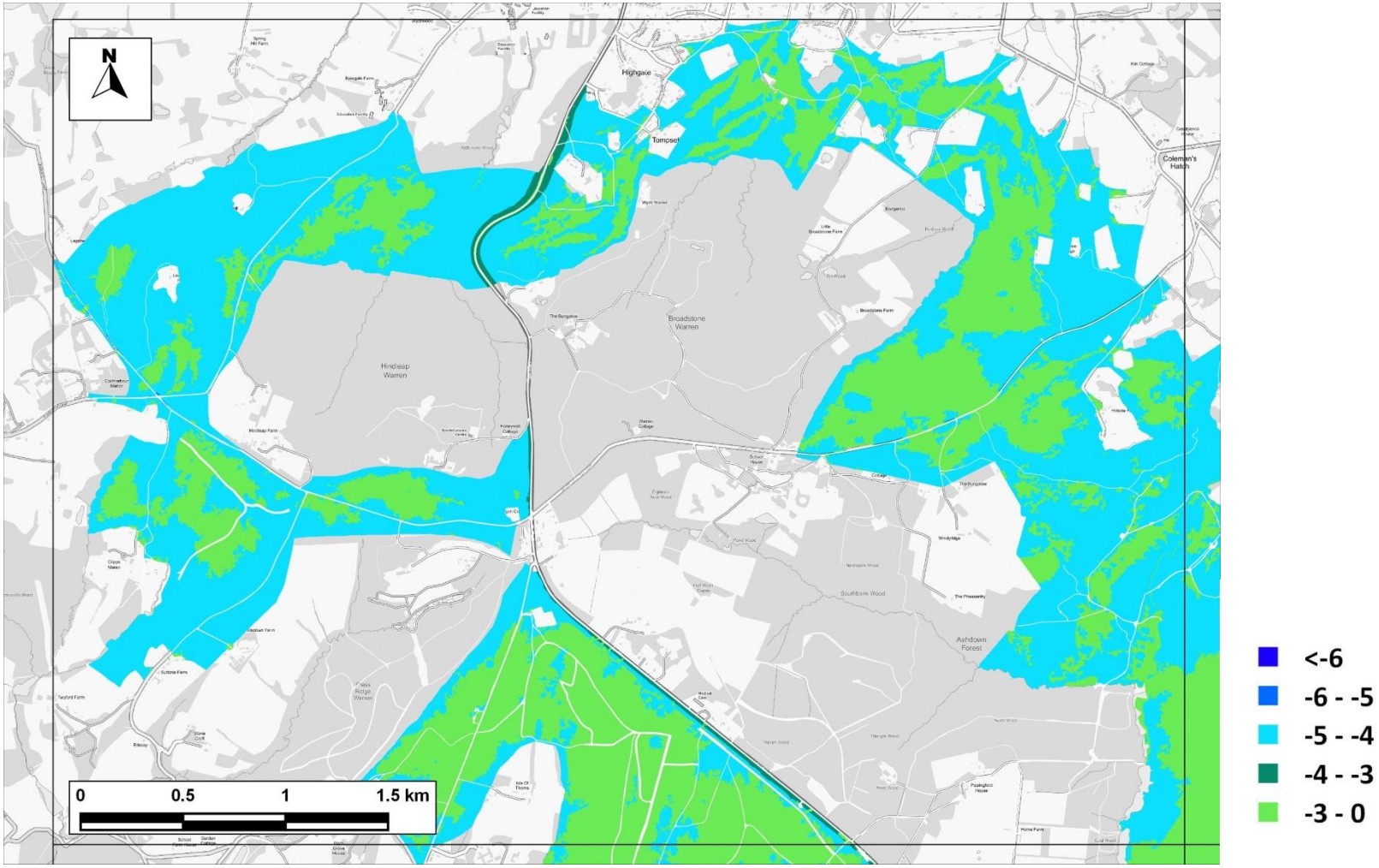


Figure A12.13: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.14: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northeast Section

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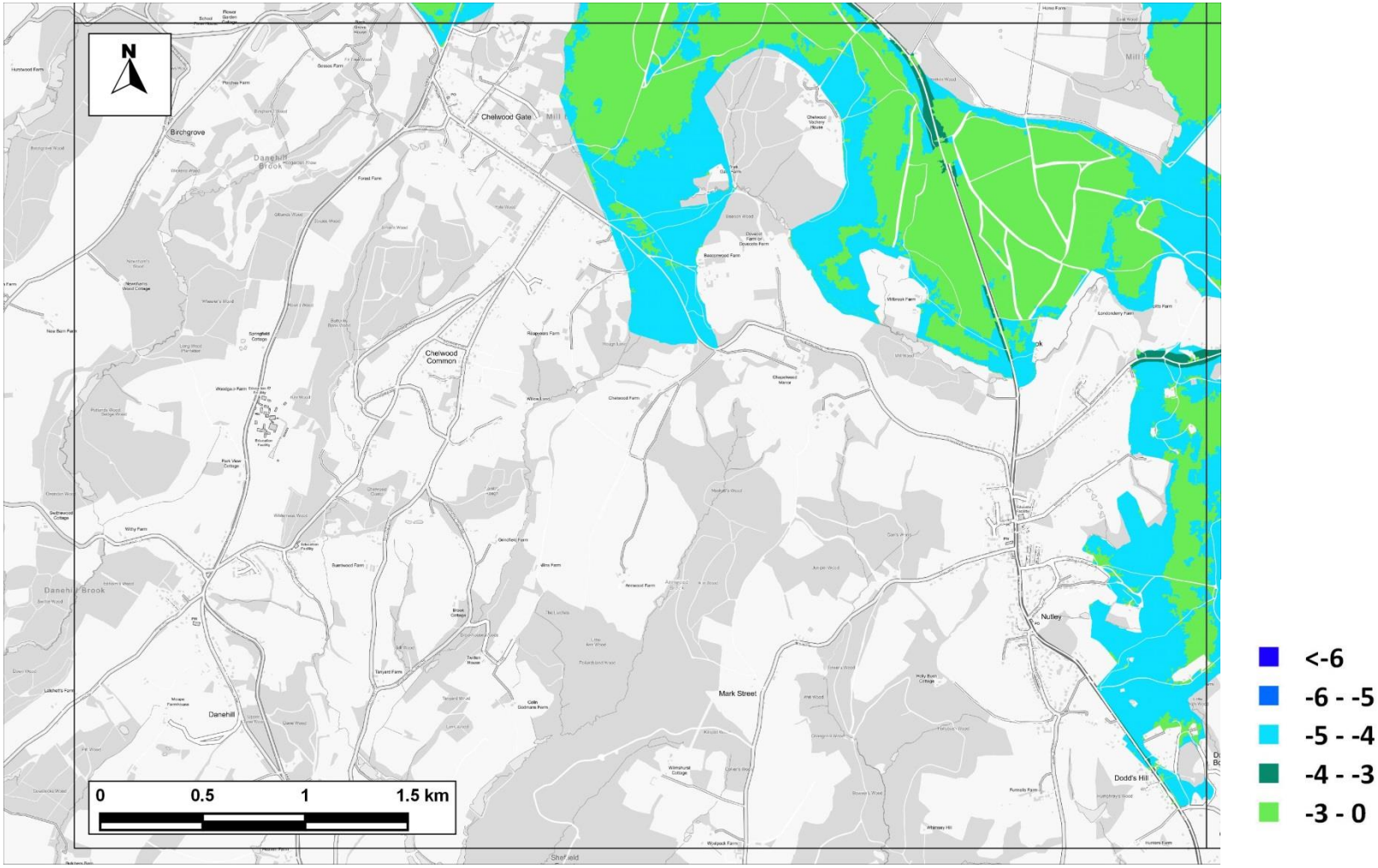


Figure A12.15: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southwest Section

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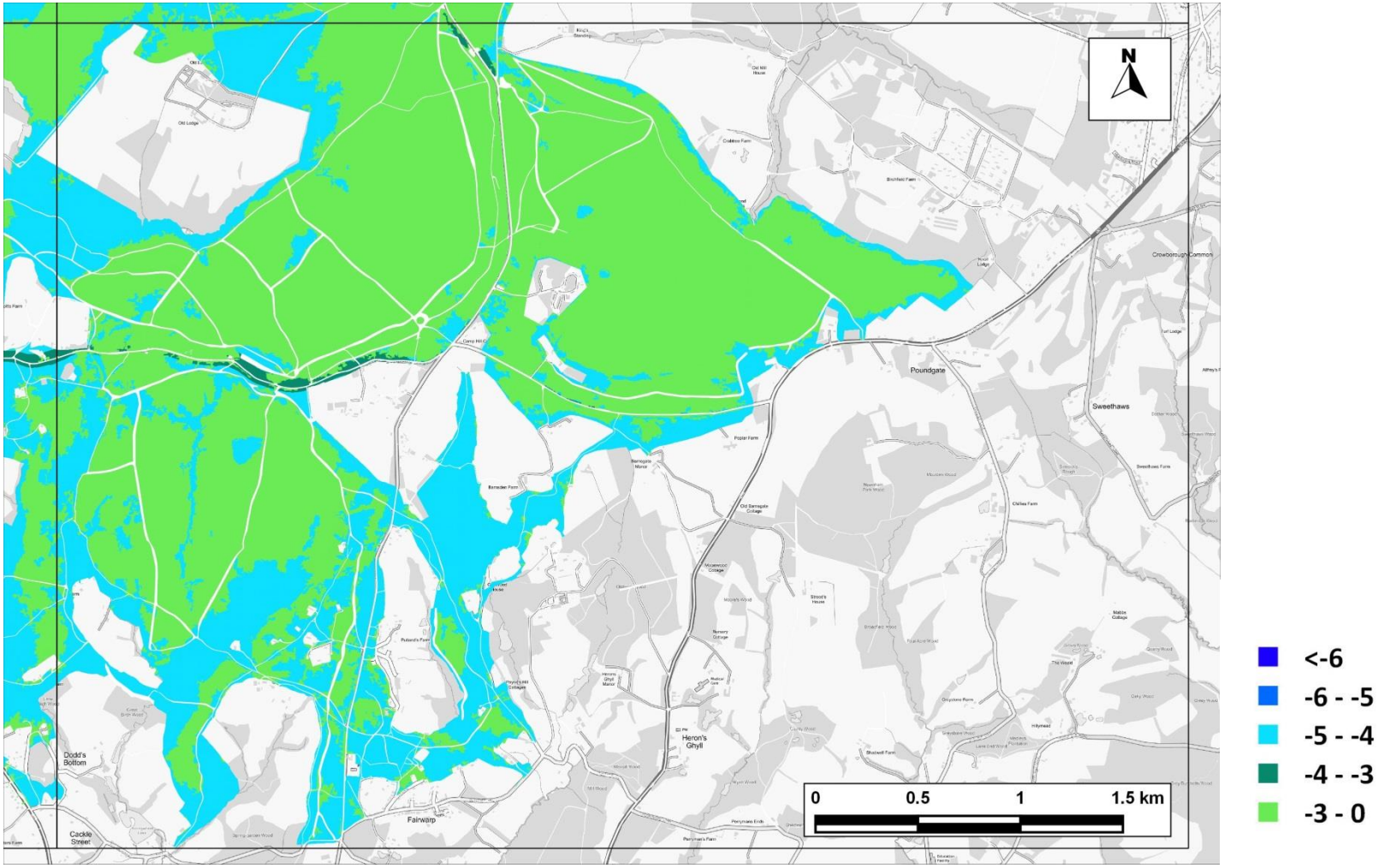


Figure A12.16: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario B to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southeast Section

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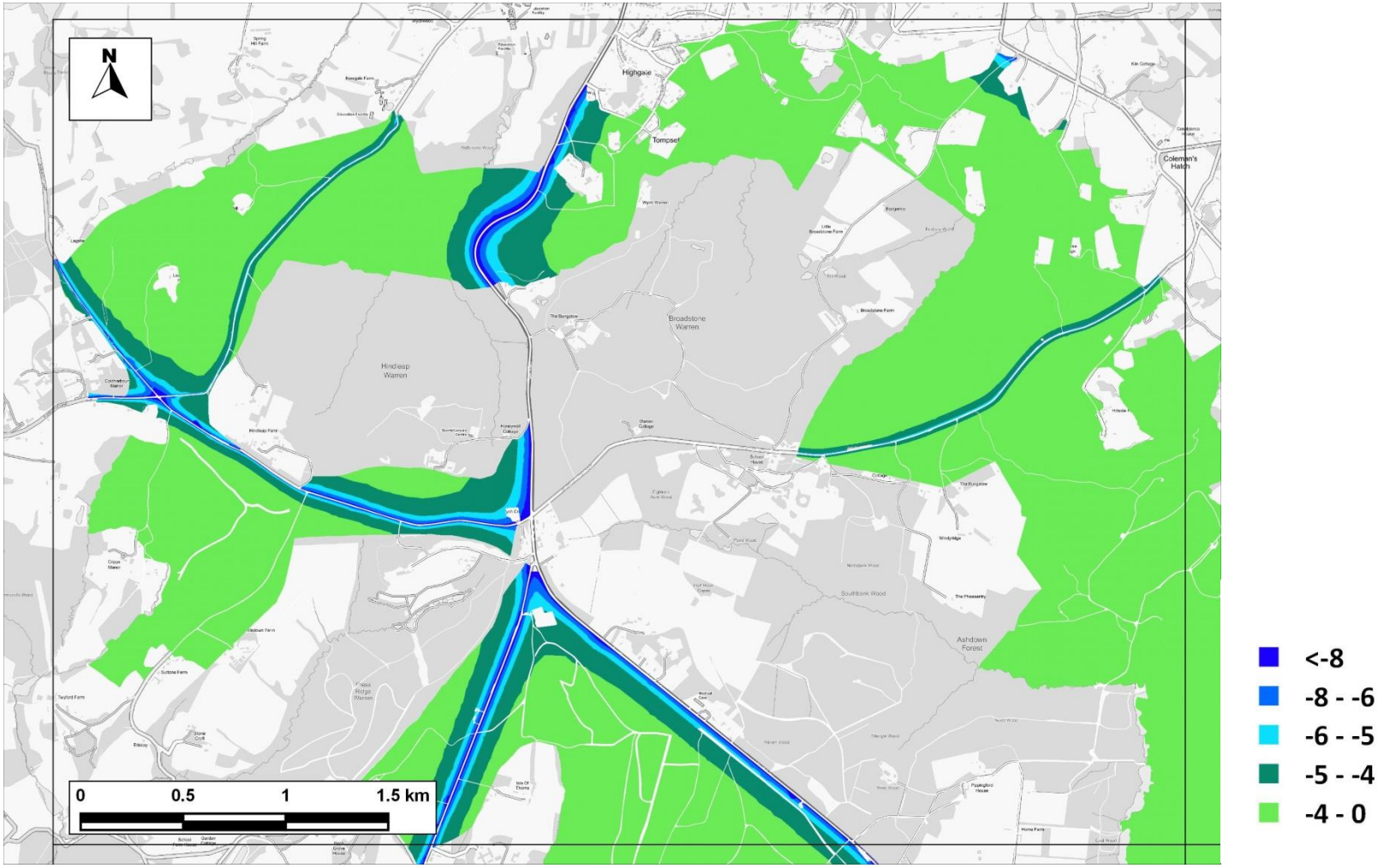


Figure A12.17: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Northwest Section

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Figure A12.18: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Northeast Section

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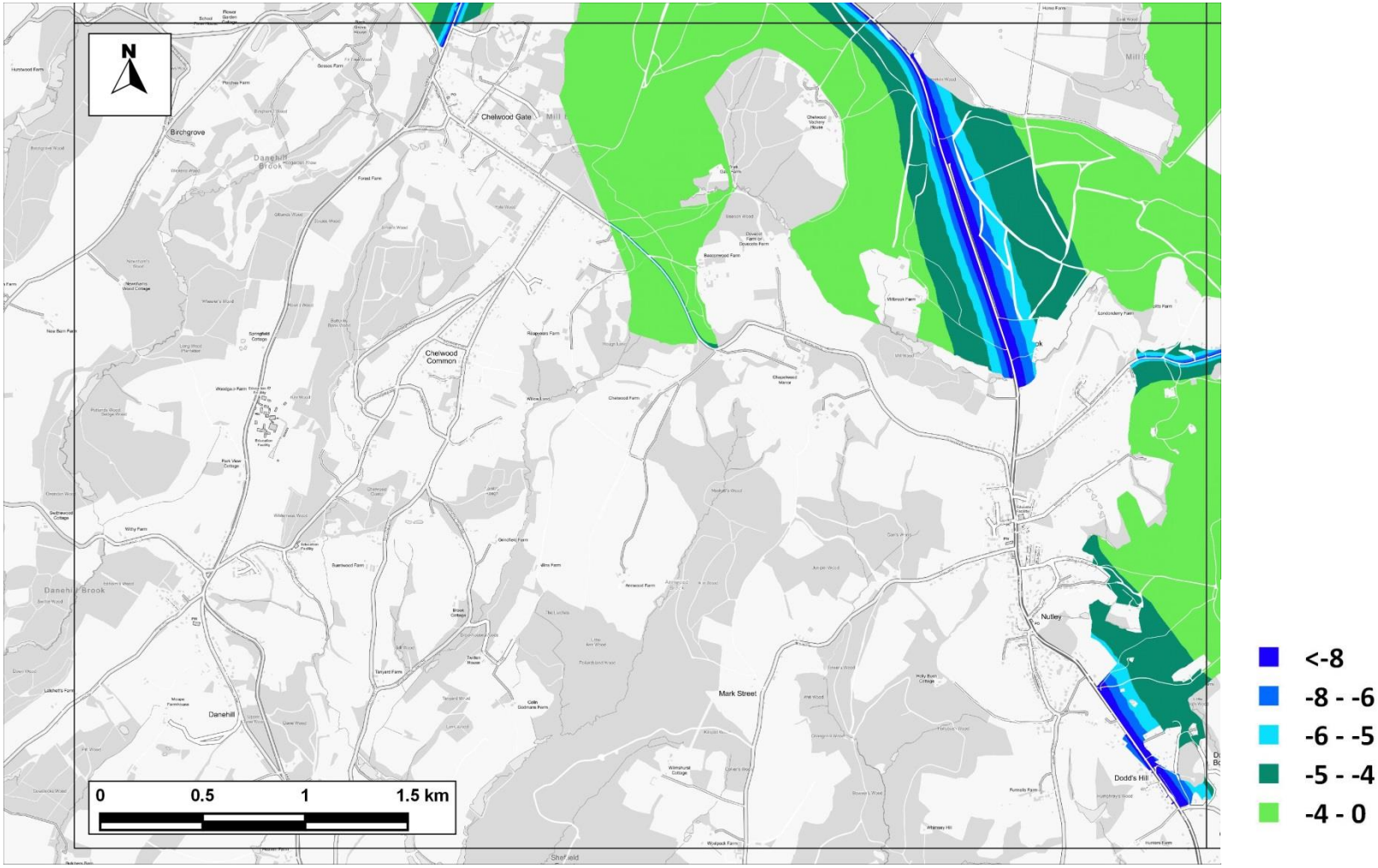


Figure A12.19: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3)– Southwest Section

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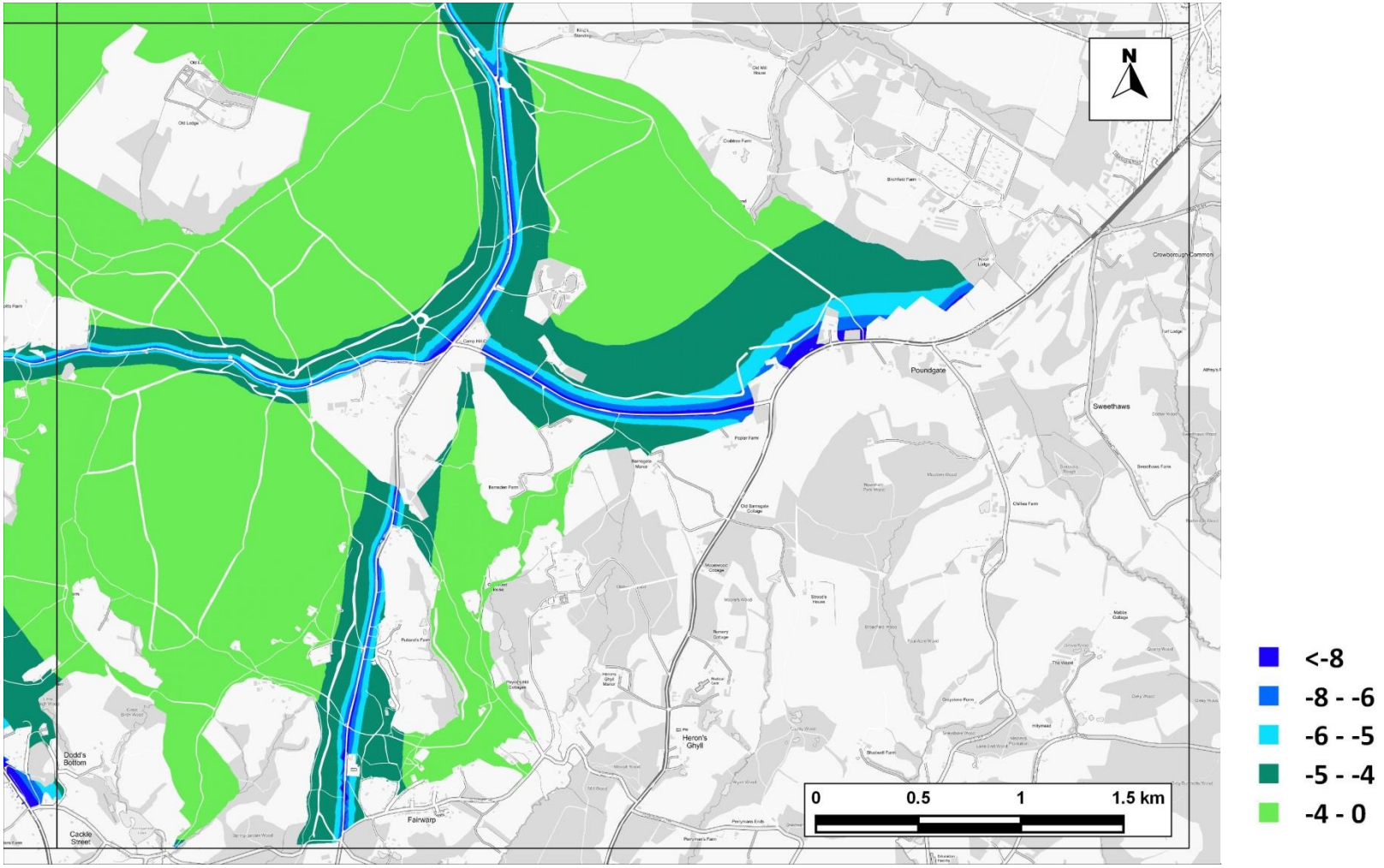


Figure A12.20: Change in Predicted Annual Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Southeast Section

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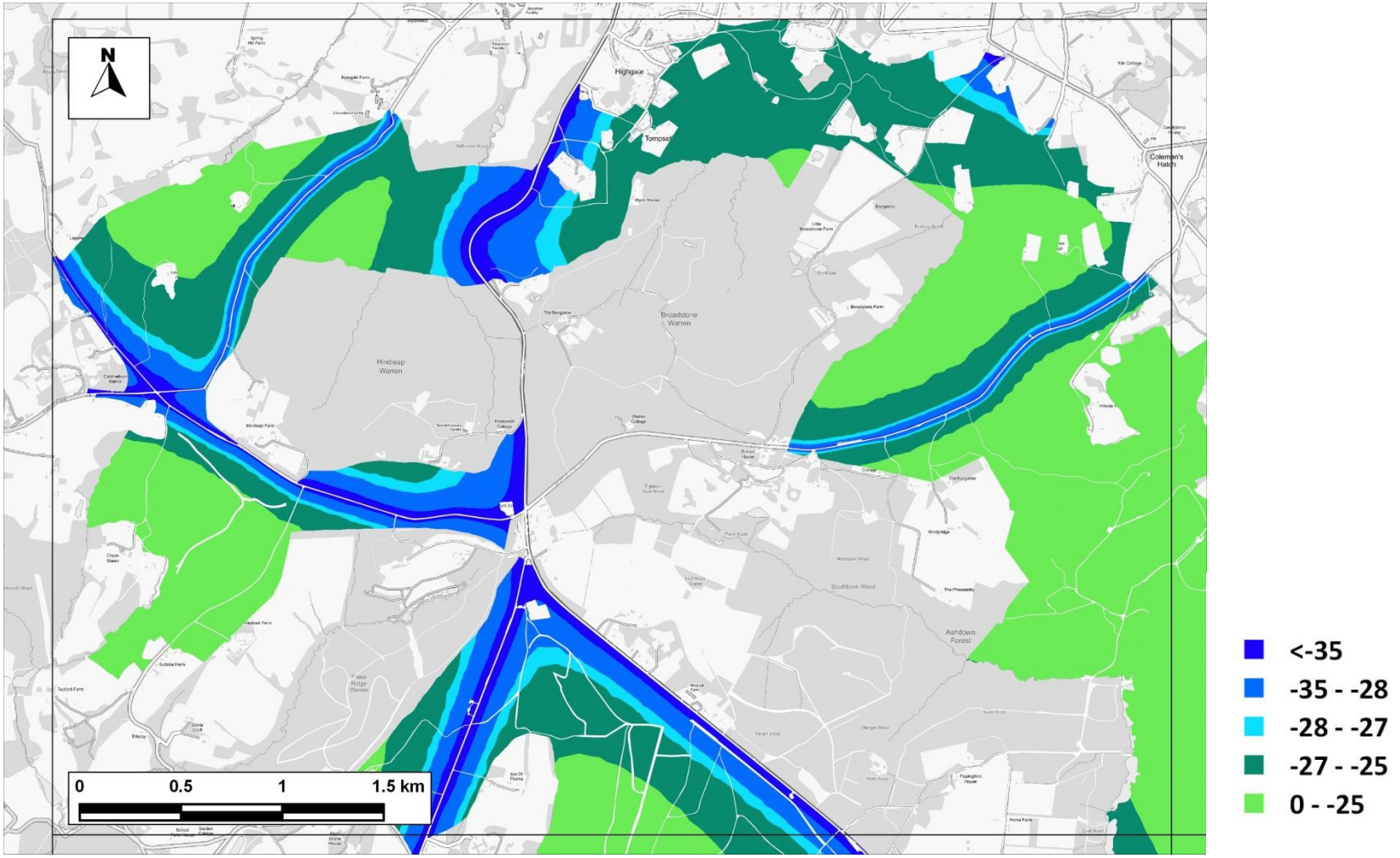


Figure A12.21: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Northwest Section

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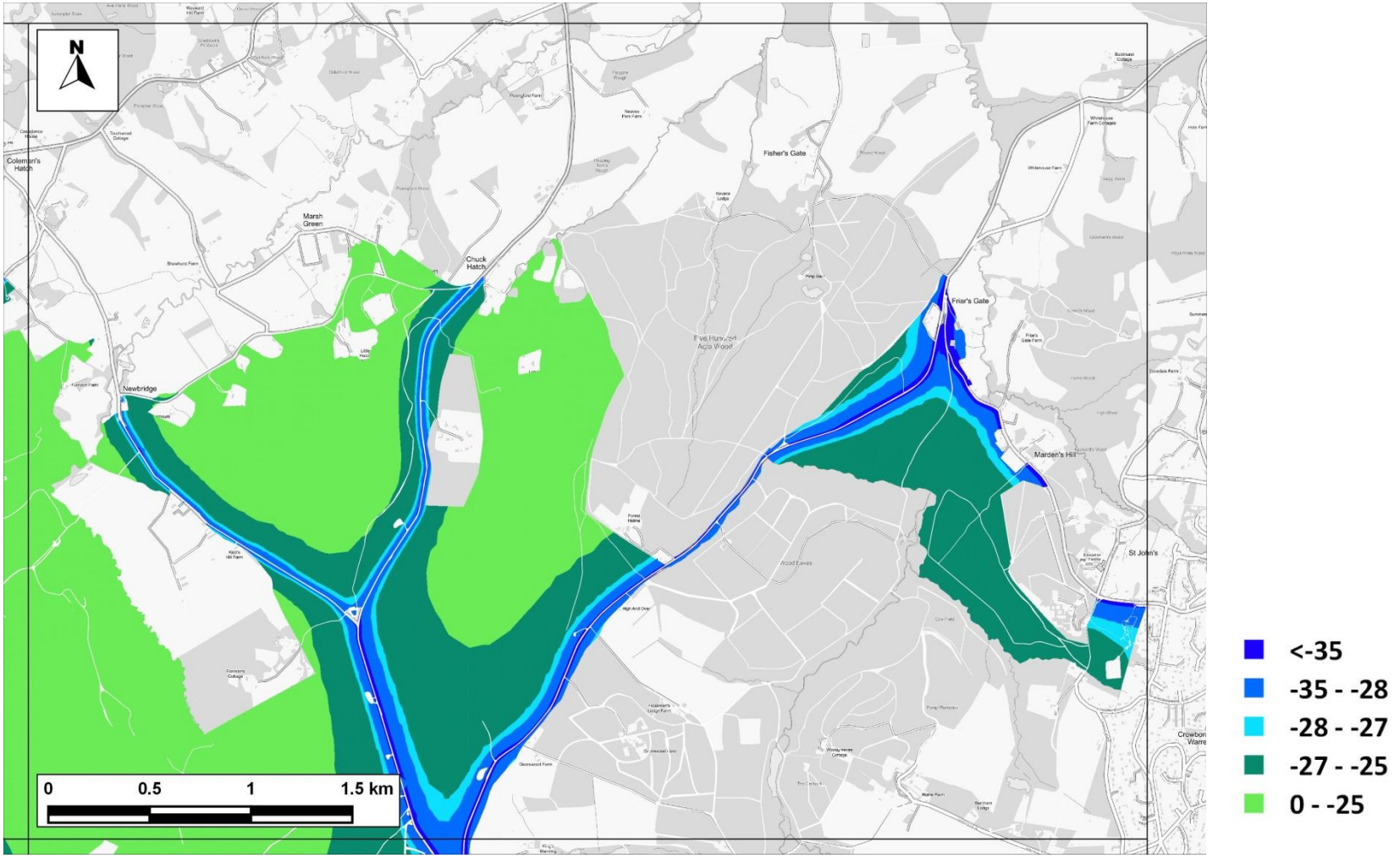


Figure A12.22: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Northeast Section

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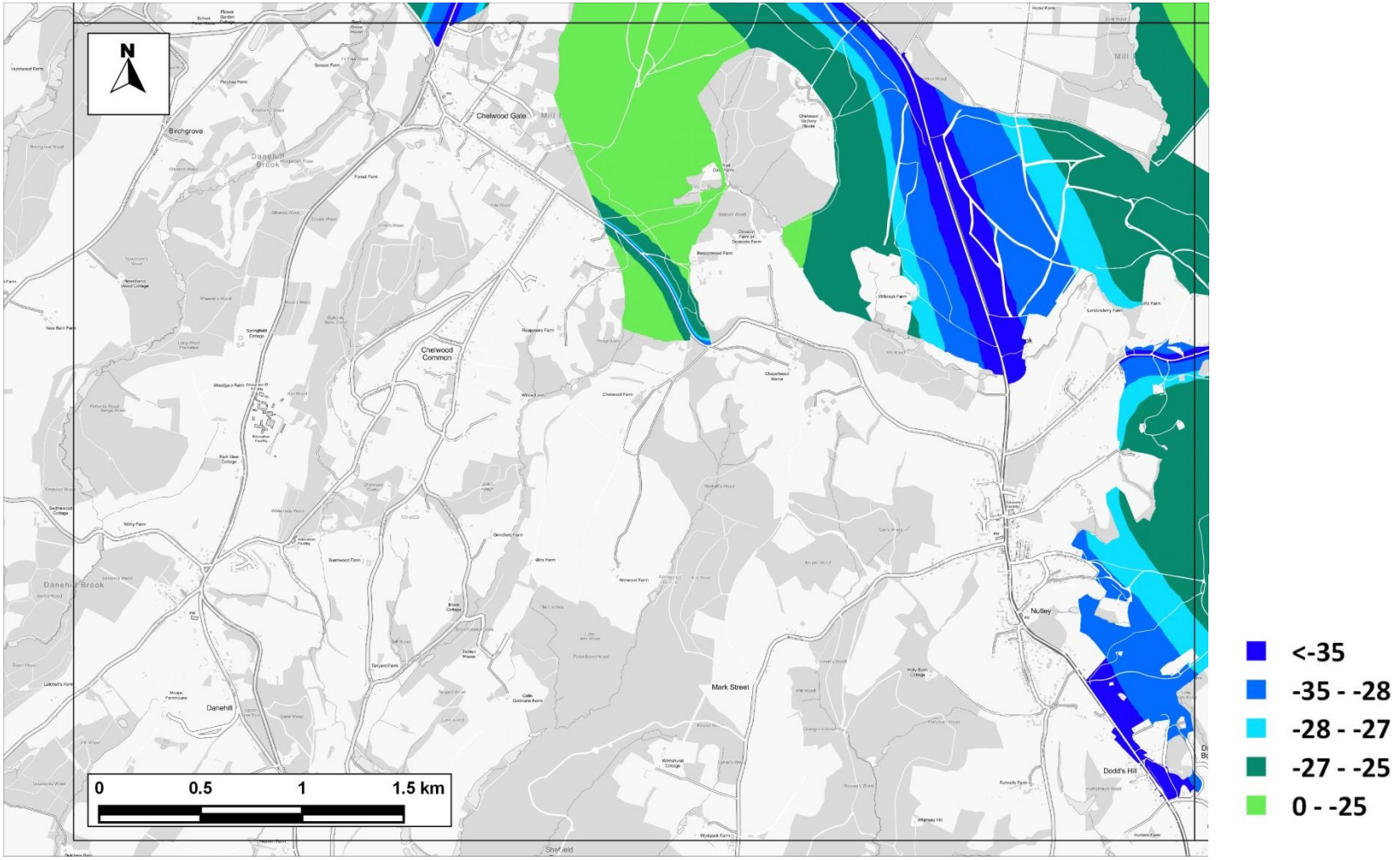


Figure A12.23: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Southwest Section

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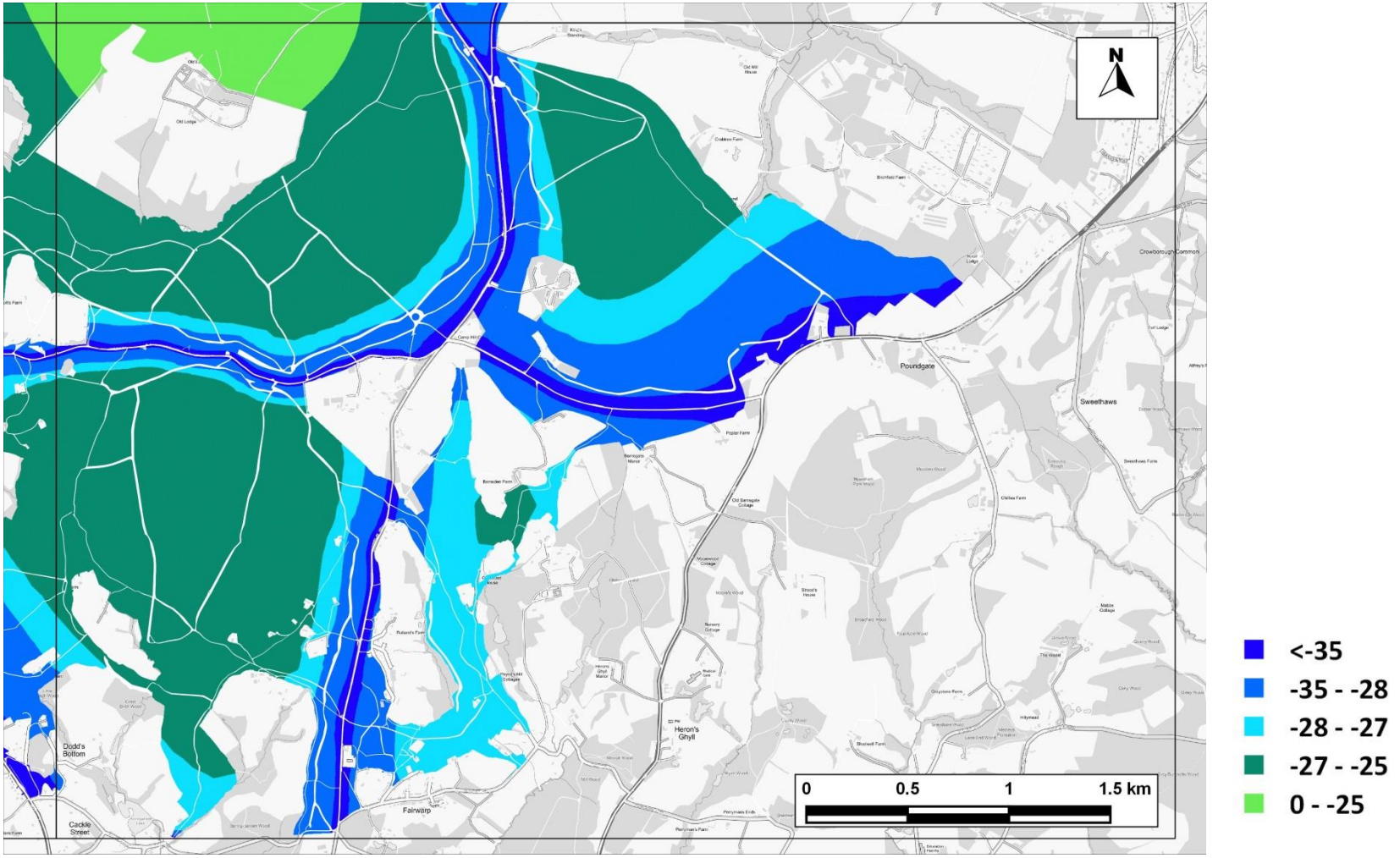


Figure A12.24: Change in Maximum Predicted 24-hour Mean NOx Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emissions Scenario A (µg/m^3) – Southeast Section

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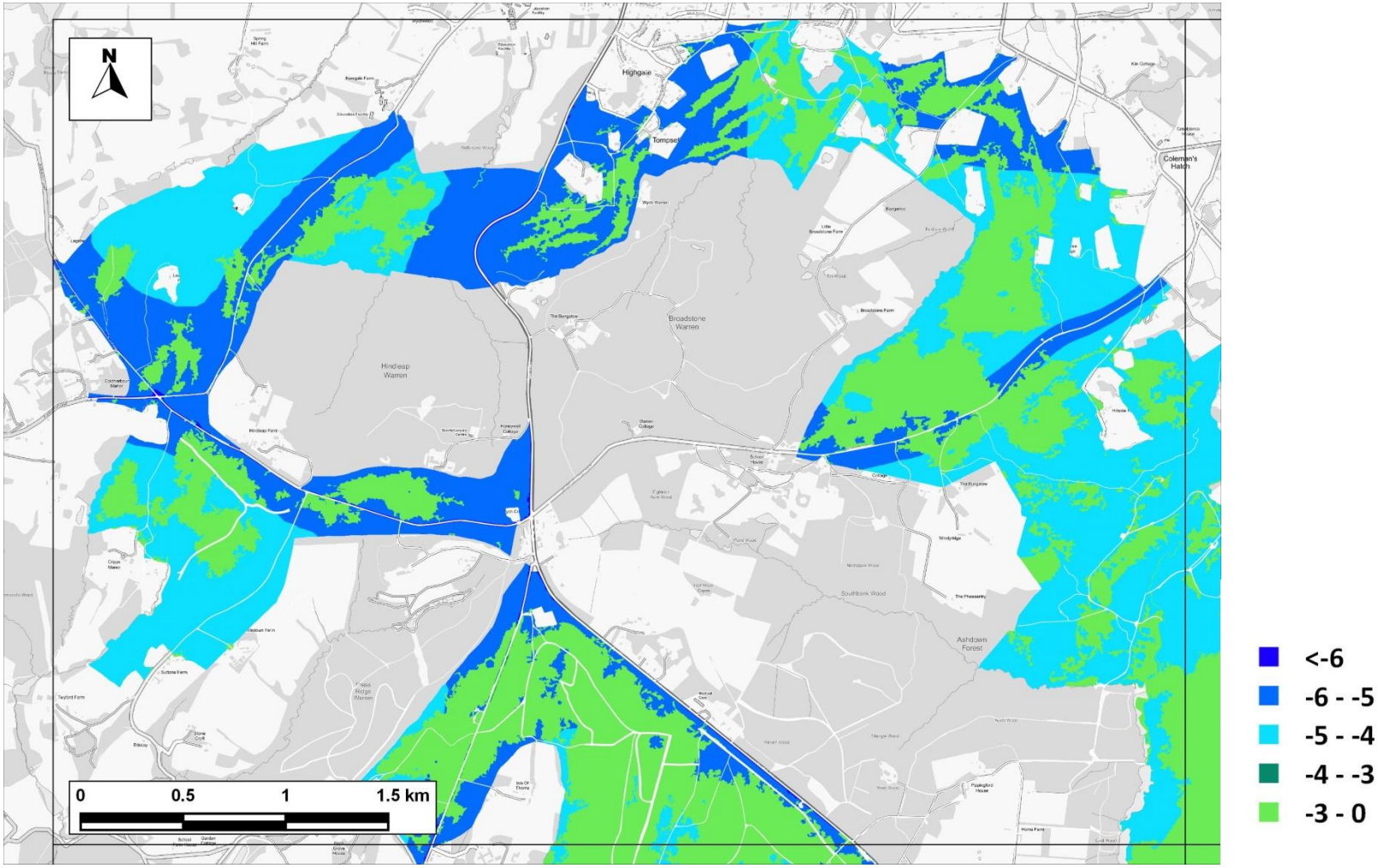


Figure A12.25: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Northwest Section

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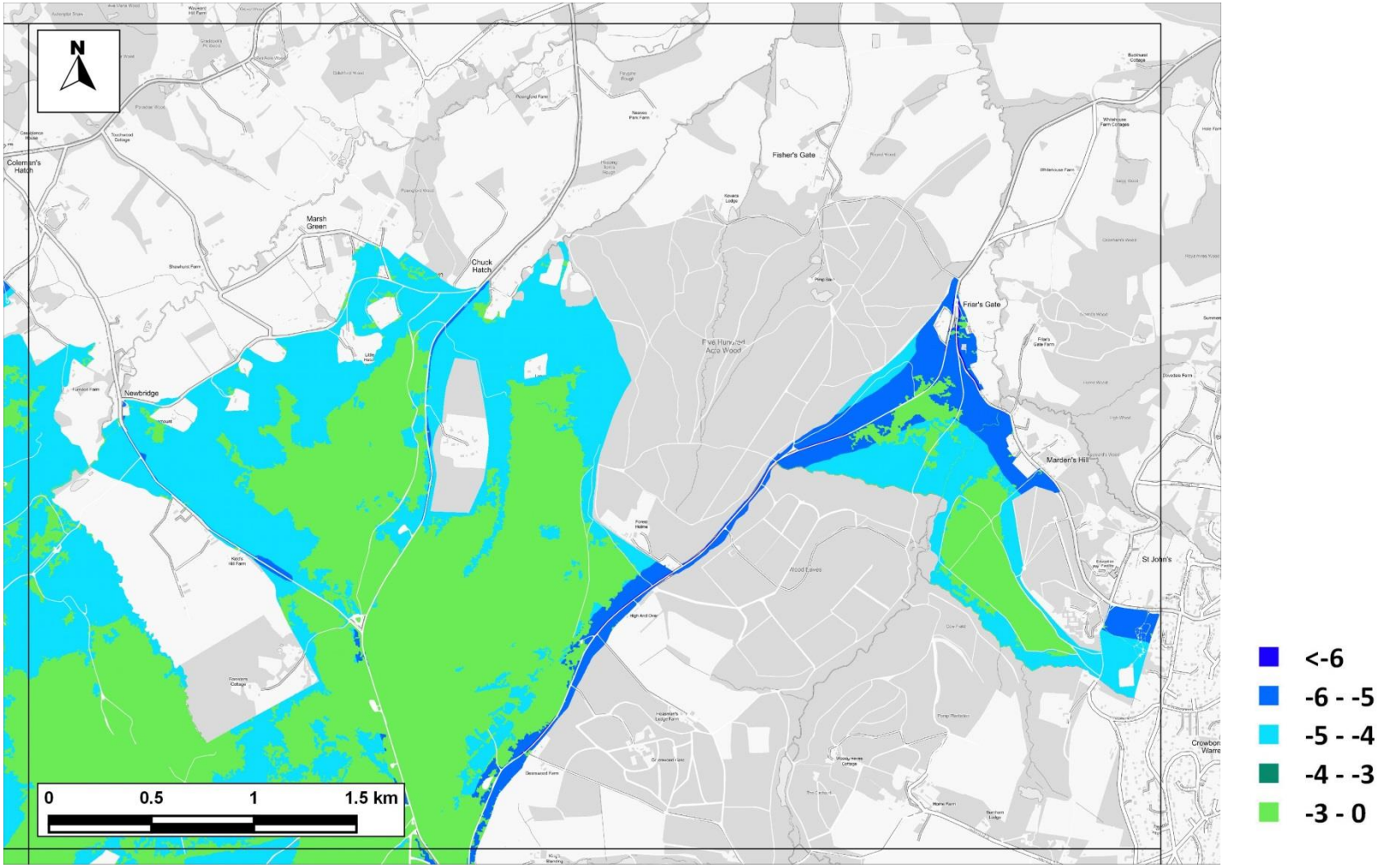


Figure A12.26: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Northeast Section

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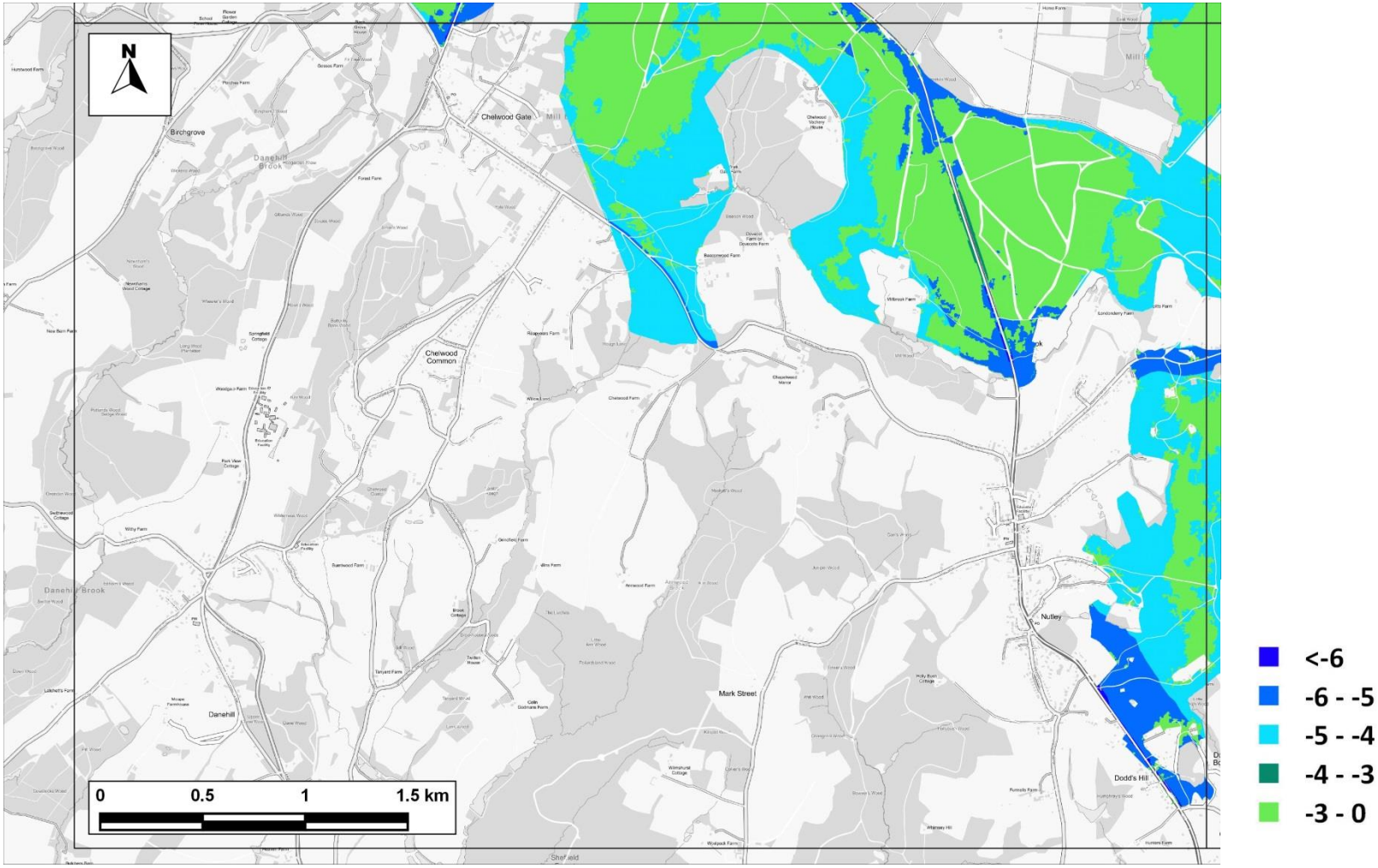


Figure A12.27: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Southwest Section

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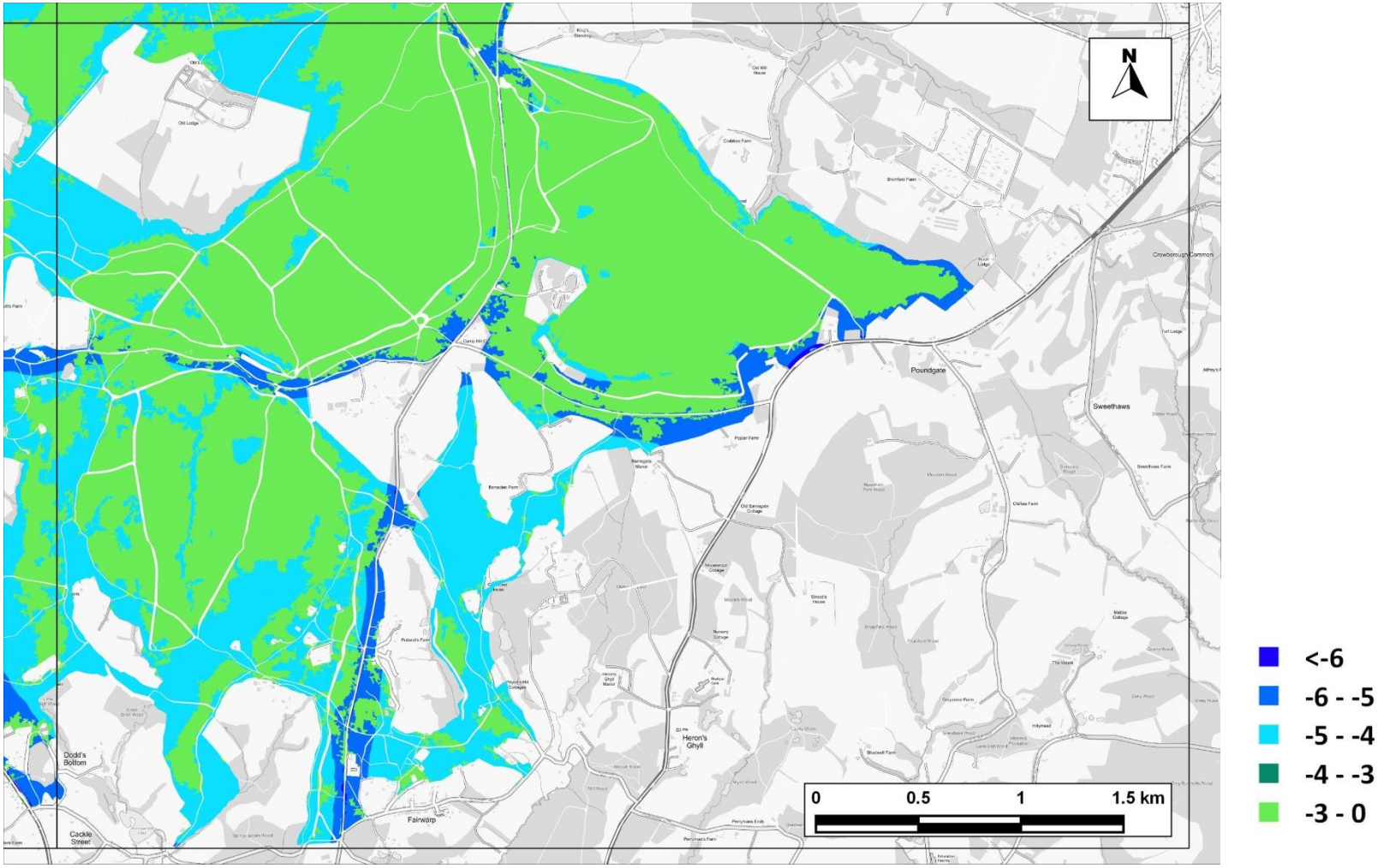


Figure A12.28: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (EA Method) (kg-N/ha/yr) – Southeast Section

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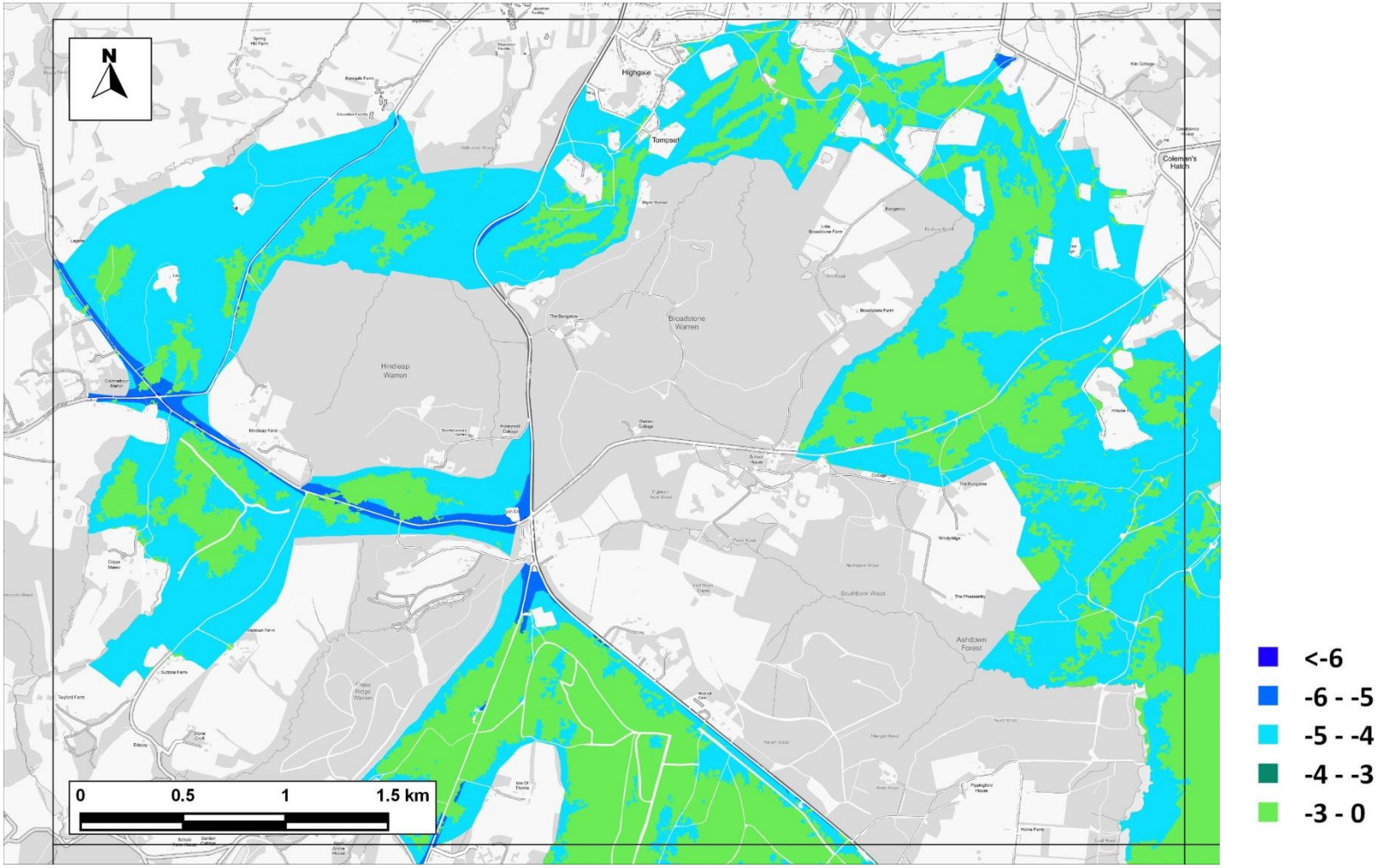


Figure A12.29: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.30: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northeast Section

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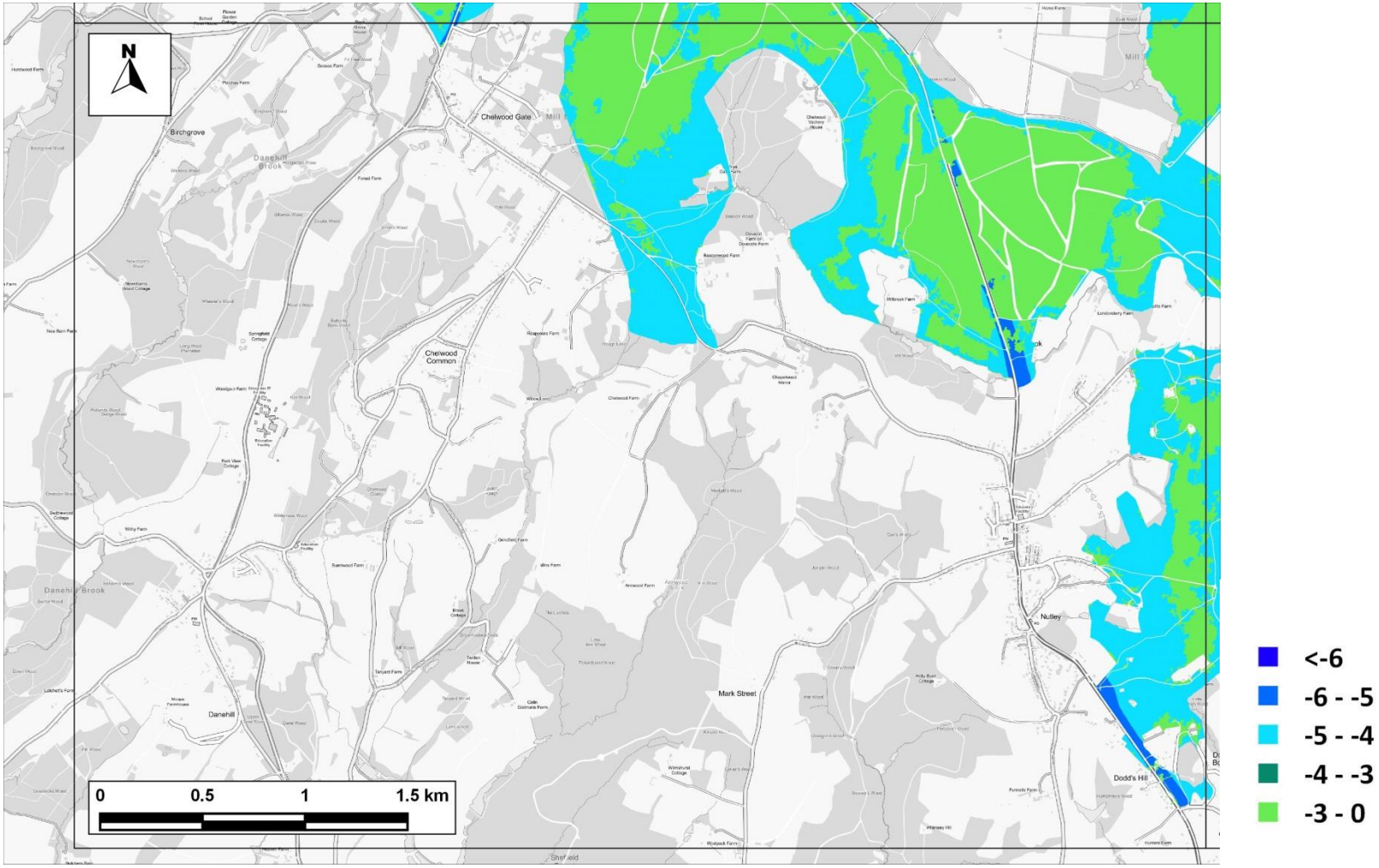


Figure A12.31: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southwest Section

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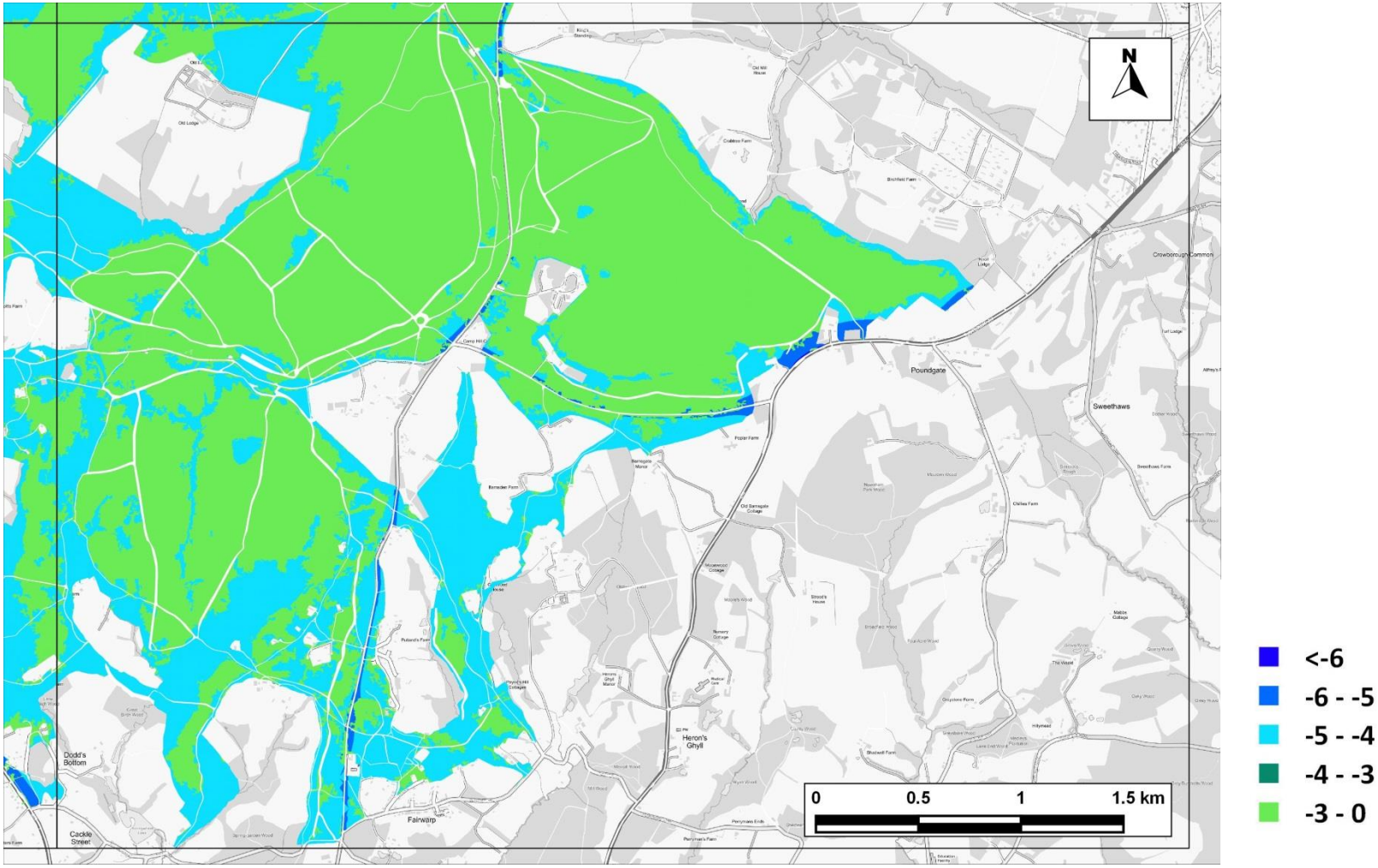


Figure A12.32: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southeast Section

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