Appendix A8.2: Air Quality Results

1.1 Introduction

1.1.1 This appendix provides further details to support Chapter 8 (Air Quality) on the air quality modelling results for human health and ecological receptors.

1.1.2 Results are presented in following order:

- Human health assessment results of the operational phase.
- Ecological assessment results of the operational phase.

1.2 Human Health Assessment Results

1.2.1 The results from the air quality assessment of operational traffic impacts (year 2036) at sensitive human health receptors are presented in Table A8.2-1. All modelled NO_2, PM_{10} and $PM_{2.5}$ results have been quoted to one decimal place. However, the change in concentration values (Do Something (DS) – Do Minimum (DM)), have been calculated prior to rounding of the modelled values. The results are also presented in Figure 8.5 (Operational Human Health Assessment Results).

1.2.2 The proposed scheme will require the demolition of properties at receptor locations R017 and R029. Therefore, these receptors do not have pollutant concentrations in the proposed year of opening (2036) DS scenario.

Table A8.2-1: Predicted Annual Mean NO_2, PM_{10} and $PM_{2.5}$ Concentrations (µg/m³) Results at Human Health Receptors

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)[1]	Modelled Annual Mean NO_2 (µg/m³)				Modelled Annual Mean PM_{10} (µg/m³)				Modelled Annual Mean $PM_{2.5}$ (µg/m³)			
	X	Y		Base 2023	DM 2036	DS 2036	Change (DS – DM 2036)	Base 2023	DM 2036	DS 2036	Change (DS – DM 2036)	Base 2023	DM 2036	DS 2036	Change (DS – DM 2036)
R01	306633	739027	60	6.5	6.2	6.8	0.6	8.2	8.0	8.1	0.0	4.9	4.8	4.8	0.0
R02	305662	739546	82	4.7	4.5	4.8	0.4	8.1	7.9	7.9	0.0	4.8	4.6	4.6	0.0
R03	304506	740207	55	4.6	4.4	6.0	1.6	8.0	7.8	8.2	0.3	4.8	4.7	4.9	0.2
R04	303814	741290	35	9.8	9.5	10.8	1.3	8.8	8.7	8.4	-0.3	5.4	5.3	5.2	-0.1
R05	303633	741290	73	4.8	4.6	5.1	0.5	7.7	7.5	7.5	0.0	4.8	4.6	4.6	0.0
R06	303834	741363	99	5.6	5.3	5.6	0.3	8.0	7.8	7.8	0.0	4.9	4.8	4.8	0.0
R07	303580	741468	33	10.4	10.1	12.0	1.9	9.0	8.9	8.7	-0.1	5.5	5.4	5.4	0.0
R08	303041	741615	90	3.9	3.7	4.0	0.3	7.4	7.3	7.3	0.1	4.7	4.5	4.5	0.0
R09	303082	741736	22	13.6	13.4	14.3	0.9	9.3	9.3	8.8	-0.5	5.8	5.6	5.4	-0.2
R10	303263	741770	150	4.7	4.3	4.5	0.2	7.7	7.5	7.6	0.1	4.8	4.6	4.7	0.0
R11	302986	741827	40	9.5	9.2	9.7	0.5	8.3	8.2	7.9	-0.3	5.1	5.0	4.9	-0.1
R12	302855	741925	44	9.1	8.8	8.7	-0.1	8.3	8.3	7.8	-0.5	5.2	5.0	4.8	-0.2
R13	302989	742061	16	4.5	4.1	4.3	0.1	7.8	7.5	7.6	0.1	4.8	4.6	4.7	0.0
R14	302365	741748	18	3.5	3.3	3.3	0.0	7.2	7.0	7.0	0.0	4.5	4.3	4.3	0.0
R15	302634	741910	85	5.2	5.0	5.1	0.1	7.5	7.4	7.5	0.1	4.7	4.5	4.6	0.1
R16	302745	742005	45	10.0	9.8	8.9	-0.9	8.8	8.8	8.4	-0.3	5.5	5.3	5.1	-0.2
R17	302379	742080	-	7.3	7.2	-	-	8.4	8.3	-	-	5.2	5.0	-	-

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)[1]	Modelled Annual Mean NO_2 (µg/m^3)				Modelled Annual Mean PM_{10} (µg/m^3)				Modelled Annual Mean $PM_{2.5}$ (µg/m^3)			
	X	Y		Base 2023	DM 2036	DS 2036	Change (DS – DM 2036)	Base 2023	DM 2036	DS 2036	Change (DS – DM 2036)	Base 2023	DM 2036	DS 2036	Change (DS – DM 2036)
R18	302713	742138	134	8.1	7.7	8.0	0.4	8.7	8.4	8.7	0.2	5.3	5.1	5.2	0.1
R19	302534	742169	39	7.7	7.4	9.6	2.2	8.5	8.3	9.2	0.9	5.2	5.0	5.5	0.5
R20	302605	742168	29	8.7	8.3	8.8	0.5	8.7	8.5	8.8	0.2	5.3	5.2	5.3	0.1
R21	302616	742275	61	4.6	4.3	4.3	0.0	7.7	7.5	7.6	0.0	4.8	4.6	4.6	0.0
R22	302666	742272	12	9.2	8.7	8.7	0.0	8.8	8.6	8.7	0.1	5.4	5.2	5.2	0.1
R23	302685	742271	8	9.8	9.2	9.2	0.0	9.0	8.7	8.8	0.1	5.4	5.2	5.3	0.1
R24	302663	742579	6	11.8	11.2	11.5	0.4	9.1	8.8	8.9	0.1	5.5	5.3	5.3	0.0
R25	302656	742722	4	7.6	7.1	7.2	0.1	8.2	8.0	8.0	0.0	5.0	4.8	4.8	0.0
R26	302561	742947	13	4.7	4.3	4.2	-0.1	7.8	7.6	7.5	-0.1	4.8	4.6	4.6	0.0
R27	301570	742270	27	13.6	13.4	13.1	-0.3	9.5	9.5	8.4	-1.2	5.9	5.8	5.2	-0.6
R28	301627	742272	23	13.5	13.4	13.9	0.6	9.5	9.5	8.5	-0.9	5.9	5.8	5.3	-0.5
R29	301576	742307	-	13.6	13.5	-	-	9.5	9.5	-	-	5.9	5.8	-	-
R30	300608	744873	132	2.8	2.6	2.7	0.1	7.1	7.0	6.9	0.0	4.5	4.3	4.3	0.0

1. Receptors R13, R14, R24 - R26 are located >200m from the ARN. Distances shown, reflect the nearest non ARN road source.

1.3 Ecological Assessment Results

1.3.1 The results from the ecological air quality assessment (nitrogen deposition (N-dep) calculations) at designated habitats for operational traffic are presented in Table A8.2-2. The results feature the worst-case habitats (those with the lowest critical load (CL)) at each receptor location as identified by the competent expert for Biodiversity). Baseline N-Dep rates and CLs were obtained from the Air Pollution Information System website (APIS; UK Centre for Ecology and Hydrology, 2024). The results for the ecological assessment are presented in Figure 8.6 (Operational Ecological Assessment Results).

1.3.2 As shown in Table A8.2-2, designated habitats assigned to the modelled ecological receptors were 'Broadleaved deciduous woodland' or 'Coniferous woodland'. As such, the vegetation type (deposition velocity) assigned to each receptor was 'forest', in accordance with the guidance in the Design Manual for Roads and Bridges (DMRB) LA 105 Air Quality (National Highways et al., 2024).

1.3.3 Total nitrogen deposition concentrations with the ammonia (NH_3) contribution have been included in Table A8.2-2 for all receptors. All total nitrogen deposition values, with and without ammonia, have been quoted to one decimal place. However, the change in deposition values, as a percentage of the critical load, have been calculated prior to rounding of the deposition values. The significance criteria have been calculated based on the criteria detailed in paragraph 8.2.47 of Chapter 8 (Air Quality).

1.3.4 The results presented in Table A8.2-2 relate to each ecological receptor point modelled. Where the habitat is a woodland, transect lines were drawn from the habitat boundary closest to an affected road link and away from the road link, up to 200m. A receptor point was modelled at 10m intervals along each transect. The following key is applicable to Table A8.2-2; The beginning of the receptor ID designates the ecological site type as Ancient Woodland or Veteran Tree, and the number at the end of those labelled 'ECO' denotes the distance to the ecological receptor point along the transect; Zero demarks the habitat boundary and the closest point to the affected road link while the next point is 10m back from the boundary (away from the affected road source) and so on:

Receptor ID:

- ATI/BT = Veteran or Ancient Tree
- ECO = Ancient Woodland, where _A, _B etc. denotes a transect representative of an unnamed Ancient Woodland designated habitat site, with the exception of:
  - ECO_A = Byres Wood
  - ECO_U = Rotmell Wood
  - ECO_AJ = Craigvinean Plantation

Priority Habitat:

- BDW = Broadleaved deciduous woodland

- CW = Coniferous woodland

1.3.5 The distances for Transect T and AM represent the nearest road link (and main contributor of traffic emissions), which is not an ARN link, but within the modelled study area.

Table A8.2-2: Ecological Assessment Results

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ATI_1	303629	741298	69	BDW	10	14.7	14.2	14.4	1.7	Not significant	16.9	15.5	16.4	9.2	Potentially affected
ATI_2	303240	741711	88	BDW	10	14.8	14.3	14.4	0.7	Not significant	17.3	15.7	16.0	3.4	Not significant
ATI_3	301946	742438	161	BDW	10	13.9	13.8	13.9	0.2	Not significant	14.3	14.1	14.2	1.3	Not significant
ATI_4	301456	742479	166	BDW	10	13.9	13.8	13.9	0.3	Not significant	14.1	14.0	14.2	1.9	Not significant
ATI_5	301192	742437	113	BDW	10	14.0	13.9	13.9	0.6	Not significant	14.5	14.2	14.6	4.3	Potentially affected
BT_1	300461	744077	59	BDW	10	14.7	14.1	14.3	1.5	Not significant	18.0	16.0	16.8	7.7	Potentially affected
BT_2	300465	744069	53	BDW	10	14.8	14.2	14.4	1.9	Not significant	18.7	16.4	17.3	9.1	Potentially affected
BT_3	301323	742410	91	BDW	10	14.1	13.9	14.0	1.4	Not significant	14.9	14.3	15.2	8.6	Potentially affected
BT_4	301681	742315	11	CW	3	16.6	15.7	17.3	51.7	Potentially affected	25.0	20.4	26.3	196.5	Potentially affected
BT_5	301865	742322	34	BDW	10	15.7	14.9	15.4	5.2	Potentially affected	21.1	18.0	20.2	22.2	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
BT_6	301968	742343	71	BDW	10	14.6	14.2	14.3	1.5	Not significant	17.0	15.5	16.3	7.9	Potentially affected
ECO_A_0	305807	739400	37	CW	3	16.1	15.3	15.7	14.2	Potentially affected	21.8	18.5	20.3	58.7	Potentially affected
ECO_A_1	305806	739390	47	CW	3	15.7	15.0	15.3	10.4	Not significant	20.2	17.5	18.9	45.3	Potentially affected
ECO_A_2	305805	739381	57	CW	3	15.3	14.7	15.0	7.6	Not significant	18.9	16.8	17.8	35.2	Potentially affected
ECO_A_3	305804	739371	67	CW	3	15.1	14.6	14.7	5.6	Not significant	17.9	16.2	17.0	27.3	Potentially affected
ECO_A_4	305803	739361	77	CW	3	14.9	14.4	14.6	4.1	Not significant	17.1	15.7	16.3	21.2	Potentially affected
ECO_A_5	305802	739351	87	CW	3	14.7	14.4	14.4	3.0	Not significant	16.4	15.3	15.8	16.4	Potentially affected
ECO_A_6	305801	739341	97	CW	3	14.6	14.3	14.4	2.1	Not significant	15.9	15.1	15.4	12.5	Not significant
ECO_A_7	305800	739331	107	CW	3	14.5	14.2	14.3	1.6	Not significant	15.5	14.8	15.1	9.7	Not significant
ECO_A_8	305799	739321	117	CW	3	14.4	14.2	14.2	1.2	Not significant	15.2	14.7	14.9	7.5	Not significant
ECO_A_9	305798	739311	127	CW	3	14.3	14.2	14.2	0.8	Not significant	15.0	14.6	14.7	5.8	Not significant
ECO_A_10	305798	739301	137	CW	3	14.3	14.2	14.2	0.7	Not significant	14.8	14.5	14.6	4.8	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_A_11	305797	739291	147	CW	3	14.3	14.2	14.2	0.6	Not significant	14.7	14.4	14.5	4.1	Not significant
ECO_A_12	305796	739281	157	CW	3	14.3	14.2	14.2	0.5	Not significant	14.7	14.4	14.5	3.6	Not significant
ECO_A_13	305795	739271	167	CW	3	14.2	14.2	14.2	0.5	Not significant	14.6	14.4	14.5	3.4	Not significant
ECO_A_14	305794	739261	177	CW	3	14.2	14.2	14.2	0.5	Not significant	14.5	14.3	14.4	2.9	Not significant
ECO_A_15	305793	739251	187	CW	3	14.2	14.1	14.2	0.3	Not significant	14.5	14.3	14.4	2.3	Not significant
ECO_A_16	305792	739241	197	CW	3	14.2	14.1	14.2	0.3	Not significant	14.4	14.3	14.3	2.0	Not significant
ECO_A_17	305791	739235	>200	CW	3	14.2	14.1	14.1	0.2	Not significant	14.4	14.3	14.3	1.8	Not significant
ECO_C_0	305909	739473	29	CW	3	16.4	15.5	15.9	13.2	Not significant	23.2	19.4	21.0	52.7	Potentially affected
ECO_C_1	305909	739483	39	CW	3	15.9	15.2	15.4	9.5	Not significant	21.3	18.2	19.4	40.4	Potentially affected
ECO_C_2	305910	739493	49	CW	3	15.5	14.9	15.1	7.2	Not significant	19.7	17.2	18.2	31.4	Potentially affected
ECO_C_3	305911	739503	59	CW	3	15.2	14.7	14.8	5.3	Not significant	18.5	16.5	17.3	24.4	Potentially affected
ECO_C_4	305911	739513	69	CW	3	15.0	14.5	14.6	3.8	Not significant	17.6	16.0	16.6	18.8	Potentially affected
ECO_C_5	305912	739523	79	CW	3	14.8	14.4	14.5	2.9	Not significant	16.9	15.6	16.0	14.7	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_C_6	305913	739532	89	CW	3	14.7	14.3	14.4	2.0	Not significant	16.3	15.2	15.6	11.3	Not significant
ECO_C_7	305913	739542	99	CW	3	14.5	14.3	14.3	1.5	Not significant	15.8	15.0	15.2	8.7	Not significant
ECO_C_8	305914	739552	109	CW	3	14.5	14.2	14.3	1.0	Not significant	15.4	14.8	15.0	6.6	Not significant
ECO_C_9	305914	739556	112	CW	3	14.4	14.2	14.3	1.1	Not significant	15.3	14.7	14.9	6.2	Not significant
ECO_D_0	304972	739723	18	CW	3	17.0	16.1	16.9	28.8	Potentially affected	25.8	21.1	24.4	111.9	Potentially affected
ECO_D_1	304965	739715	28	CW	3	16.4	15.5	16.2	21.1	Potentially affected	23.3	19.5	22.0	85.1	Potentially affected
ECO_D_2	304959	739707	38	CW	3	16.0	15.2	15.6	15.6	Potentially affected	21.5	18.3	20.3	65.8	Potentially affected
ECO_D_3	304953	739700	48	CW	3	15.6	14.9	15.3	11.6	Not significant	20.3	17.5	19.1	51.5	Potentially affected
ECO_D_4	304946	739692	58	CW	3	15.4	14.8	15.0	9.0	Not significant	19.3	17.0	18.2	41.0	Potentially affected
ECO_D_5	304940	739684	68	CW	3	15.2	14.6	14.8	6.7	Not significant	18.5	16.5	17.4	32.5	Potentially affected
ECO_D_6	304933	739677	78	CW	3	15.0	14.5	14.6	5.0	Not significant	17.7	16.0	16.8	25.4	Potentially affected
ECO_D_7	304927	739669	88	CW	3	14.8	14.4	14.5	3.8	Not significant	16.9	15.5	16.1	19.7	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_D_8	304920	739662	98	CW	3	14.6	14.3	14.4	2.7	Not significant	16.3	15.2	15.6	15.1	Potentially affected
ECO_D_9	304914	739654	108	CW	3	14.5	14.2	14.3	1.9	Not significant	15.8	14.9	15.3	11.6	Not significant
ECO_D_10	304909	739648	116	CW	3	14.4	14.2	14.2	1.6	Not significant	15.5	14.8	15.1	9.7	Not significant
ECO_E_0	305023	739741	16	CW	3	17.1	16.2	17.1	32.1	Potentially affected	26.1	21.3	25.0	123.6	Potentially affected
ECO_E_1	305029	739749	26	CW	3	16.5	15.6	16.3	23.0	Potentially affected	23.4	19.5	22.3	92.9	Potentially affected
ECO_E_2	305036	739757	36	CW	3	16.0	15.2	15.7	16.6	Potentially affected	21.3	18.3	20.4	70.8	Potentially affected
ECO_E_3	305042	739765	46	CW	3	15.6	14.9	15.3	12.0	Not significant	19.8	17.3	18.9	54.4	Potentially affected
ECO_E_4	305048	739773	56	CW	3	15.3	14.7	15.0	8.8	Not significant	18.6	16.6	17.9	42.2	Potentially affected
ECO_E_5	305054	739781	66	CW	3	15.0	14.5	14.7	6.5	Not significant	17.7	16.0	17.0	32.8	Potentially affected
ECO_E_6	305060	739789	76	CW	3	14.8	14.4	14.6	4.7	Not significant	16.9	15.6	16.4	25.4	Potentially affected
ECO_E_7	305067	739796	86	CW	3	14.7	14.3	14.4	3.3	Not significant	16.3	15.3	15.9	19.5	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_E_10	305085	739820	116	CW	3	14.4	14.2	14.3	1.3	Not significant	15.2	14.6	14.9	9.0	Not significant
ECO_E_11	305091	739828	126	CW	3	14.3	14.2	14.2	1.0	Not significant	14.9	14.5	14.7	7.1	Not significant
ECO_E_12	305098	739836	136	CW	3	14.3	14.2	14.2	0.7	Not significant	14.8	14.5	14.6	5.7	Not significant
ECO_E_13	305104	739844	146	CW	3	14.3	14.2	14.2	0.6	Not significant	14.7	14.4	14.6	4.8	Not significant
ECO_E_14	305110	739851	156	CW	3	14.3	14.2	14.2	0.6	Not significant	14.7	14.4	14.5	4.4	Not significant
ECO_E_15	305116	739859	166	CW	3	14.2	14.2	14.2	0.5	Not significant	14.6	14.4	14.5	3.7	Not significant
ECO_E_16	305122	739867	176	CW	3	14.2	14.2	14.2	0.5	Not significant	14.5	14.3	14.4	3.4	Not significant
ECO_E_17	305129	739875	186	CW	3	14.2	14.1	14.2	0.5	Not significant	14.5	14.3	14.4	2.8	Not significant
ECO_E_18	305135	739883	196	CW	3	14.2	14.1	14.2	0.3	Not significant	14.4	14.3	14.3	2.5	Not significant
ECO_E_19	305140	739889	>200	CW	3	14.2	14.1	14.1	0.2	Not significant	14.4	14.3	14.3	2.1	Not significant
ECO_F_0	304596	740246	29	CW	3	18.2	17.3	16.4	-28.1	Not significant	30.9	24.5	21.9	-84.7	Not significant
ECO_F_1	304605	740252	39	CW	3	17.3	16.3	15.8	-18.3	Not significant	26.9	21.8	20.1	-56.7	Not significant
ECO_F_2	304613	740258	49	CW	3	16.6	15.7	15.3	-12.2	Not significant	23.9	19.9	18.7	-38.9	Not significant
ECO_F_3	304621	740263	59	CW	3	16.0	15.2	15.0	-8.3	Not significant	21.8	18.5	17.7	-28.1	Not significant
ECO_F_4	304629	740269	69	CW	3	15.6	14.9	14.7	-6.1	Not significant	20.1	17.5	16.8	-21.5	Not significant
ECO_F_5	304637	740275	79	CW	3	15.3	14.7	14.6	-4.5	Not significant	18.8	16.7	16.2	-16.8	Not significant
ECO_F_6	304645	740281	89	CW	3	15.0	14.5	14.4	-3.4	Not significant	17.8	16.1	15.7	-13.4	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_F_7	304653	740287	99	CW	3	14.8	14.4	14.3	-2.6	Not significant	17.0	15.7	15.3	-10.8	Not significant
ECO_F_8	304662	740292	109	CW	3	14.7	14.3	14.2	-1.9	Not significant	16.4	15.3	15.0	-8.5	Not significant
ECO_F_9	304670	740298	119	CW	3	14.5	14.2	14.2	-1.5	Not significant	15.9	15.0	14.8	-6.6	Not significant
ECO_F_10	304678	740304	129	CW	3	14.4	14.2	14.2	-1.0	Not significant	15.5	14.8	14.7	-4.5	Not significant
ECO_F_11	304686	740310	139	CW	3	14.3	14.2	14.1	-0.5	Not significant	15.2	14.6	14.5	-2.6	Not significant
ECO_F_12	304694	740316	149	CW	3	14.3	14.1	14.1	-0.3	Not significant	14.9	14.5	14.5	-0.8	Not significant
ECO_F_13	304702	740321	159	CW	3	14.2	14.1	14.1	0.1	Not significant	14.8	14.4	14.4	1.1	Not significant
ECO_F_14	304710	740327	169	CW	3	14.2	14.1	14.1	0.2	Not significant	14.7	14.4	14.4	1.8	Not significant
ECO_F_15	304719	740333	179	CW	3	14.2	14.1	14.1	0.0	Not significant	14.6	14.3	14.3	0.7	Not significant
ECO_G_0	303993	740685	178	CW	3	14.2	14.0	14.1	1.7	Not significant	14.9	14.4	14.7	9.4	Not significant
ECO_G_1	303984	740683	187	CW	3	14.2	14.0	14.0	1.3	Not significant	14.7	14.3	14.5	7.2	Not significant
ECO_G_2	303974	740681	196	CW	3	14.1	14.0	14.0	1.0	Not significant	14.6	14.2	14.4	6.1	Not significant
ECO_G_3	303964	740679	>200	CW	3	14.1	14.0	14.0	0.8	Not significant	14.5	14.2	14.4	5.2	Not significant
ECO_G_4	303954	740677	>200	CW	3	14.1	14.0	14.0	0.7	Not significant	14.4	14.2	14.3	4.3	Not significant
ECO_G_5	303944	740675	>200	CW	3	14.1	14.0	14.0	0.6	Not significant	14.4	14.2	14.3	3.6	Not significant
ECO_G_6	303935	740673	>200	CW	3	14.1	14.0	14.0	0.6	Not significant	14.3	14.1	14.2	3.2	Not significant
ECO_G_7	303925	740671	>200	CW	3	14.0	14.0	14.0	0.3	Not significant	14.3	14.1	14.2	2.7	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_G_8	303915	740669	>200	CW	3	14.0	14.0	14.0	0.3	Not significant	14.3	14.1	14.2	2.4	Not significant
ECO_G_9	303905	740667	>200	CW	3	14.0	14.0	14.0	0.3	Not significant	14.3	14.1	14.2	2.2	Not significant
ECO_G_10	303895	740665	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.3	14.1	14.2	1.9	Not significant
ECO_G_11	303886	740663	>200	CW	3	14.0	14.0	14.0	0.3	Not significant	14.3	14.1	14.2	1.9	Not significant
ECO_G_12	303876	740661	>200	CW	3	14.0	14.0	14.0	0.3	Not significant	14.3	14.1	14.2	1.9	Not significant
ECO_G_13	303866	740659	>200	CW	3	14.0	14.0	14.0	0.3	Not significant	14.2	14.1	14.2	1.9	Not significant
ECO_G_14	303856	740657	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.7	Not significant
ECO_G_15	303846	740655	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.6	Not significant
ECO_G_16	303837	740653	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.6	Not significant
ECO_G_17	303829	740651	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.5	Not significant
ECO_H_0	304124	740876	5	CW	3	15.9	15.2	15.9	24.6	Potentially affected	21.4	18.3	21.3	100.9	Potentially affected
ECO_H_1	304133	740881	15	CW	3	15.5	14.9	15.4	17.5	Potentially affected	19.9	17.4	19.6	76.2	Potentially affected
ECO_H_2	304141	740887	25	CW	3	15.2	14.7	15.0	12.6	Not significant	18.7	16.6	18.4	58.0	Potentially affected
ECO_H_3	304150	740892	35	CW	3	15.0	14.5	14.8	9.1	Not significant	17.7	16.1	17.4	44.7	Potentially affected

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_H_4	304158	740897	45	CW	3	14.8	14.4	14.6	6.7	Not significant	16.9	15.6	16.6	34.7	Potentially affected
ECO_H_5	304166	740902	54	CW	3	14.7	14.3	14.5	5.2	Not significant	16.4	15.3	16.1	27.7	Potentially affected
ECO_I_0	303536	741391	42	BDW	10	15.5	14.8	15.2	4.0	Potentially affected	19.9	17.3	19.1	18.1	Potentially affected
ECO_I_1	303531	741382	52	BDW	10	15.1	14.5	14.8	2.9	Not significant	18.7	16.5	17.9	13.9	Potentially affected
ECO_I_2	303526	741374	62	BDW	10	14.9	14.4	14.6	2.1	Not significant	17.7	15.9	17.0	10.8	Potentially affected
ECO_I_3	303521	741365	72	BDW	10	14.7	14.2	14.4	1.6	Not significant	16.9	15.5	16.3	8.4	Potentially affected
ECO_I_4	303515	741357	82	BDW	10	14.5	14.2	14.3	1.1	Not significant	16.2	15.1	15.8	6.5	Potentially affected
ECO_I_5	303510	741348	92	BDW	10	14.4	14.1	14.2	0.8	Not significant	15.7	14.9	15.4	5.1	Potentially affected
ECO_I_6	303505	741339	102	BDW	10	14.3	14.0	14.1	0.6	Not significant	15.3	14.6	15.0	3.9	Not significant
ECO_I_7	303500	741331	112	BDW	10	14.2	14.0	14.1	0.5	Not significant	15.0	14.5	14.8	3.1	Not significant
ECO_I_8	303495	741322	122	BDW	10	14.1	14.0	14.0	0.3	Not significant	14.8	14.4	14.6	2.4	Not significant
ECO_I_9	303490	741313	132	BDW	10	14.1	14.0	14.0	0.3	Not significant	14.6	14.3	14.5	1.9	Not significant

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_I_10	303485	741305	142	BDW	10	14.1	14.0	14.0	0.2	Not significant	14.5	14.2	14.4	1.6	Not significant
ECO_I_11	303480	741296	152	BDW	10	14.1	14.0	14.0	0.2	Not significant	14.5	14.2	14.3	1.4	Not significant
ECO_I_12	303475	741288	162	BDW	10	14.1	14.0	14.0	0.1	Not significant	14.4	14.2	14.3	1.1	Not significant
ECO_I_13	303470	741279	172	BDW	10	14.0	14.0	14.0	0.1	Not significant	14.4	14.1	14.2	1.1	Not significant
ECO_I_14	303465	741270	182	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.3	14.1	14.2	0.9	Not significant
ECO_I_15	303460	741262	192	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.9	Not significant
ECO_I_16	303455	741253	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.7	Not significant
ECO_I_17	303454	741252	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.7	Not significant
ECO_J_0	302892	741750	64	CW	3	14.5	14.1	14.3	7.3	Not significant	16.8	15.4	16.5	36.7	Potentially affected
ECO_J_1	302887	741742	74	CW	3	14.4	14.0	14.2	5.4	Not significant	16.2	15.0	15.9	28.5	Potentially affected
ECO_J_2	302881	741734	84	CW	3	14.2	14.0	14.1	3.9	Not significant	15.6	14.7	15.4	22.2	Potentially affected
ECO_J_3	302875	741726	94	CW	3	14.1	13.9	14.0	2.9	Not significant	15.2	14.5	15.0	17.1	Potentially affected
ECO_J_4	302869	741718	104	CW	3	14.1	13.9	13.9	2.2	Not significant	14.9	14.3	14.7	13.3	Not significant
ECO_J_5	302863	741709	114	CW	3	14.0	13.8	13.9	1.5	Not significant	14.7	14.2	14.5	10.1	Not significant
ECO_J_6	302857	741701	124	CW	3	14.0	13.8	13.9	1.2	Not significant	14.5	14.1	14.4	7.8	Not significant

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_J_7	302851	741693	134	CW	3	13.9	13.8	13.8	0.9	Not significant	14.4	14.1	14.2	5.9	Not significant
ECO_J_8	302846	741685	144	CW	3	13.9	13.8	13.8	0.7	Not significant	14.3	14.0	14.2	4.6	Not significant
ECO_J_9	302840	741677	154	CW	3	13.9	13.8	13.8	0.5	Not significant	14.3	14.0	14.1	3.4	Not significant
ECO_J_10	302834	741669	164	CW	3	13.9	13.8	13.8	0.6	Not significant	14.2	14.0	14.1	3.8	Not significant
ECO_J_11	302828	741661	174	CW	3	13.9	13.8	13.8	0.5	Not significant	14.1	13.9	14.1	3.6	Not significant
ECO_J_12	302822	741653	184	CW	3	13.8	13.8	13.8	0.5	Not significant	14.0	13.9	14.0	3.2	Not significant
ECO_J_13	302816	741645	194	CW	3	13.8	13.8	13.8	0.2	Not significant	14.0	13.9	14.0	2.0	Not significant
ECO_J_14	302811	741638	>200	CW	3	13.8	13.8	13.8	0.1	Not significant	14.0	13.9	13.9	1.5	Not significant
ECO_K_0	302473	742032	32	BDW	10	15.0	14.4	15.3	8.9	Potentially affected	18.8	16.5	19.8	33.5	Potentially affected
ECO_K_1	302469	742023	42	BDW	10	14.7	14.2	14.8	6.5	Potentially affected	17.7	15.8	18.4	25.9	Potentially affected
ECO_K_2	302465	742014	48	BDW	10	14.5	14.0	14.5	4.9	Potentially affected	16.9	15.4	17.4	20.3	Potentially affected
ECO_K_3	302461	742005	56	BDW	10	14.3	14.0	14.3	3.6	Not significant	16.2	15.0	16.6	15.9	Potentially affected
ECO_L_0	301235	742204	106	BDW	10	14.4	14.0	14.0	-0.4	Not significant	16.0	15.0	14.8	-1.7	Not significant
ECO_L_1	301233	742194	116	BDW	10	14.3	14.0	13.9	-0.3	Not significant	15.5	14.7	14.6	-1.3	Not significant
ECO_L_2	301232	742184	126	BDW	10	14.2	13.9	13.9	-0.2	Not significant	15.1	14.5	14.4	-0.9	Not significant

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_L_3	301231	742174	136	BDW	10	14.1	13.9	13.9	-0.1	Not significant	14.9	14.3	14.3	-0.4	Not significant
ECO_L_4	301230	742164	146	BDW	10	14.0	13.9	13.9	0.0	Not significant	14.6	14.2	14.2	-0.1	Not significant
ECO_L_5	301228	742154	156	BDW	10	14.0	13.9	13.9	0.0	Not significant	14.5	14.1	14.2	0.4	Not significant
ECO_L_6	301227	742145	166	BDW	10	14.0	13.9	13.9	0.1	Not significant	14.4	14.1	14.1	0.5	Not significant
ECO_L_7	301226	742135	176	BDW	10	13.9	13.8	13.9	0.0	Not significant	14.3	14.1	14.1	0.3	Not significant
ECO_L_8	301224	742125	186	BDW	10	13.9	13.8	13.8	0.0	Not significant	14.3	14.1	14.0	-0.1	Not significant
ECO_L_9	301223	742115	196	BDW	10	13.9	13.8	13.8	0.0	Not significant	14.2	14.0	14.0	-0.1	Not significant
ECO_L_10	301222	742105	>200	BDW	10	13.9	13.8	13.8	0.0	Not significant	14.1	14.0	14.0	0.2	Not significant
ECO_L_11	301220	742095	>200	BDW	10	13.9	13.8	13.8	0.1	Not significant	14.1	13.9	14.0	0.5	Not significant
ECO_L_12	301220	742091	>200	BDW	10	13.9	13.8	13.8	0.1	Not significant	14.1	13.9	14.0	0.5	Not significant
ECO_M_0	301072	742390	61	CW	3	14.6	14.2	14.4	8.6	Not significant	17.1	15.5	16.8	42.2	Potentially affected
ECO_M_1	301073	742400	71	CW	3	14.5	14.1	14.3	6.3	Not significant	16.4	15.2	16.1	32.8	Potentially affected
ECO_M_2	301074	742410	81	CW	3	14.3	14.0	14.2	4.7	Not significant	15.8	14.8	15.6	25.6	Potentially affected
ECO_M_3	301075	742420	91	CW	3	14.2	14.0	14.1	3.5	Not significant	15.4	14.6	15.2	19.9	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_M_4	301076	742430	101	CW	3	14.1	13.9	14.0	2.5	Not significant	15.0	14.4	14.9	15.3	Potentially affected
ECO_M_5	301077	742440	111	CW	3	14.1	13.9	13.9	1.8	Not significant	14.8	14.3	14.6	11.8	Not significant
ECO_M_6	301077	742445	116	CW	3	14.0	13.9	13.9	1.7	Not significant	14.7	14.2	14.5	10.4	Not significant
ECO_N_0	300897	742322	8	CW	3	18.3	17.4	17.7	10.3	Not significant	31.7	24.9	26.3	47.5	Potentially affected
ECO_N_1	300895	742312	18	CW	3	17.4	16.5	16.7	6.5	Not significant	27.8	22.3	23.3	32.0	Potentially affected
ECO_N_2	300893	742302	28	CW	3	16.6	15.7	15.9	5.2	Not significant	24.5	20.2	21.0	27.0	Potentially affected
ECO_N_3	300892	742292	38	CW	3	16.0	15.2	15.4	4.4	Not significant	22.1	18.7	19.4	22.4	Potentially affected
ECO_N_4	300890	742282	48	CW	3	15.6	14.9	15.0	3.4	Not significant	20.4	17.6	18.1	17.9	Potentially affected
ECO_N_5	300889	742272	58	CW	3	15.2	14.6	14.7	2.3	Not significant	19.0	16.7	17.2	13.7	Potentially affected
ECO_N_6	300887	742262	68	CW	3	15.0	14.4	14.5	1.8	Not significant	17.9	16.1	16.4	10.6	Not significant
ECO_N_7	300885	742252	78	CW	3	14.7	14.3	14.3	1.1	Not significant	17.1	15.6	15.9	7.9	Not significant
ECO_N_8	300884	742243	88	CW	3	14.6	14.2	14.2	0.8	Not significant	16.4	15.2	15.4	6.0	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_N_9	300882	742233	98	CW	3	14.4	14.1	14.1	0.6	Not significant	15.9	14.9	15.1	4.6	Not significant
ECO_N_10	300880	742223	108	CW	3	14.3	14.1	14.1	0.4	Not significant	15.4	14.7	14.8	3.5	Not significant
ECO_N_11	300879	742213	118	CW	3	14.2	14.0	14.0	0.3	Not significant	15.1	14.5	14.6	2.8	Not significant
ECO_N_12	300877	742203	128	CW	3	14.2	14.0	14.0	0.3	Not significant	14.8	14.4	14.5	2.6	Not significant
ECO_N_13	300876	742193	138	CW	3	14.1	14.0	14.0	0.4	Not significant	14.7	14.3	14.4	2.7	Not significant
ECO_N_14	300874	742183	148	CW	3	14.1	14.0	14.0	0.4	Not significant	14.5	14.2	14.3	2.9	Not significant
ECO_N_15	300872	742174	158	CW	3	14.1	14.0	14.0	0.5	Not significant	14.5	14.2	14.3	3.1	Not significant
ECO_N_16	300871	742164	168	CW	3	14.1	14.0	14.0	0.2	Not significant	14.4	14.2	14.2	2.4	Not significant
ECO_N_17	300869	742154	178	CW	3	14.0	14.0	14.0	0.1	Not significant	14.4	14.2	14.2	1.3	Not significant
ECO_N_18	300867	742144	188	CW	3	14.0	14.0	14.0	0.1	Not significant	14.3	14.1	14.1	1.1	Not significant
ECO_N_19	300866	742134	198	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.5	Not significant
ECO_N_20	300865	742129	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.9	Not significant
ECO_O_0	300473	742724	80	BDW	10	15.1	14.5	14.3	-2.1	Not significant	18.4	16.4	15.6	-8.0	Not significant
ECO_O_1	300482	742728	90	BDW	10	14.8	14.4	14.2	-1.5	Not significant	17.4	15.8	15.2	-6.3	Not significant
ECO_O_2	300491	742732	100	BDW	10	14.6	14.2	14.1	-1.1	Not significant	16.7	15.4	14.9	-4.9	Not significant
ECO_O_3	300500	742736	110	BDW	10	14.5	14.2	14.1	-0.8	Not significant	16.1	15.1	14.7	-3.8	Not significant
ECO_O_4	300510	742740	120	BDW	10	14.4	14.1	14.0	-0.5	Not significant	15.6	14.8	14.5	-2.7	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_O_5	300519	742743	129	BDW	10	14.3	14.0	14.0	-0.3	Not significant	15.2	14.6	14.4	-1.8	Not significant
ECO_O_6	300528	742747	139	BDW	10	14.2	14.0	14.0	-0.2	Not significant	14.9	14.4	14.3	-1.0	Not significant
ECO_O_7	300537	742751	149	BDW	10	14.1	14.0	14.0	-0.1	Not significant	14.7	14.3	14.3	-0.3	Not significant
ECO_O_8	300547	742755	159	BDW	10	14.1	14.0	14.0	0.0	Not significant	14.6	14.3	14.3	0.0	Not significant
ECO_O_9	300556	742758	169	BDW	10	14.1	14.0	14.0	0.0	Not significant	14.5	14.2	14.2	0.1	Not significant
ECO_O_10	300565	742762	179	BDW	10	14.1	14.0	14.0	0.0	Not significant	14.4	14.2	14.2	-0.2	Not significant
ECO_O_11	300574	742766	189	BDW	10	14.1	14.0	14.0	-0.1	Not significant	14.4	14.2	14.1	-0.4	Not significant
ECO_O_12	300584	742770	199	BDW	10	14.0	14.0	14.0	0.0	Not significant	14.3	14.1	14.1	-0.2	Not significant
ECO_O_13	300593	742774	>200	BDW	10	14.0	14.0	14.0	0.0	Not significant	14.3	14.1	14.1	0.2	Not significant
ECO_O_14	300602	742777	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.6	Not significant
ECO_O_15	300611	742781	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.6	Not significant
ECO_O_16	300618	742784	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.6	Not significant
ECO_P_0	300229	743145	22	CW	3	14.1	13.9	14.3	15.3	Potentially affected	15.2	14.5	17.1	88.2	Potentially affected
ECO_P_1	300219	743146	32	CW	3	14.0	13.8	14.2	11.5	Not significant	14.9	14.3	16.4	68.9	Potentially affected
ECO_P_2	300209	743146	42	CW	3	14.0	13.8	14.1	8.6	Not significant	14.6	14.2	15.8	53.8	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_P_3	300199	743146	52	CW	3	13.9	13.8	14.0	6.5	Not significant	14.4	14.1	15.3	41.7	Potentially affected
ECO_P_4	300189	743147	62	CW	3	13.9	13.8	13.9	4.7	Not significant	14.3	14.0	15.0	31.7	Potentially affected
ECO_P_5	300179	743147	72	CW	3	13.9	13.8	13.9	3.6	Not significant	14.2	14.0	14.7	23.8	Potentially affected
ECO_P_6	300169	743147	82	CW	3	13.8	13.8	13.8	2.5	Not significant	14.2	14.0	14.5	17.1	Potentially affected
ECO_P_7	300159	743147	92	CW	3	13.8	13.8	13.8	1.9	Not significant	14.2	13.9	14.3	12.9	Not significant
ECO_P_8	300149	743148	102	CW	3	13.8	13.7	13.8	1.5	Not significant	14.1	13.9	14.2	10.4	Not significant
ECO_P_9	300139	743148	112	CW	3	13.8	13.7	13.8	1.3	Not significant	14.0	13.9	14.1	9.4	Not significant
ECO_P_10	300129	743148	122	CW	3	13.8	13.7	13.8	1.2	Not significant	14.0	13.8	14.1	8.4	Not significant
ECO_P_11	300119	743149	132	CW	3	13.8	13.7	13.8	1.0	Not significant	14.0	13.8	14.1	7.0	Not significant
ECO_P_12	300109	743149	142	CW	3	13.8	13.7	13.8	0.8	Not significant	14.0	13.8	14.0	5.5	Not significant
ECO_P_13	300099	743149	152	CW	3	13.8	13.7	13.8	0.6	Not significant	14.0	13.8	14.0	3.7	Not significant
ECO_P_14	300089	743149	162	CW	3	13.8	13.7	13.8	0.4	Not significant	14.0	13.8	13.9	2.8	Not significant
ECO_P_15	300079	743150	172	CW	3	13.8	13.7	13.7	0.3	Not significant	14.0	13.8	13.9	2.2	Not significant
ECO_P_16	300069	743150	182	CW	3	13.8	13.7	13.7	0.3	Not significant	14.0	13.8	13.9	2.2	Not significant
ECO_P_17	300059	743150	192	CW	3	13.8	13.7	13.7	0.3	Not significant	14.0	13.8	13.9	2.1	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_P_18	300049	743151	>200	CW	3	13.8	13.7	13.7	0.3	Not significant	14.0	13.8	13.9	2.1	Not significant
ECO_P_19	300047	743151	>200	CW	3	13.8	13.7	13.7	0.3	Not significant	14.0	13.8	13.9	2.1	Not significant
ECO_Q_0	300407	743164	63	BDW	10	14.6	14.2	14.0	-1.9	Not significant	17.3	15.7	14.8	-8.2	Not significant
ECO_Q_1	300416	743162	73	BDW	10	14.5	14.0	13.9	-1.5	Not significant	16.6	15.2	14.6	-6.5	Not significant
ECO_Q_2	300426	743160	83	BDW	10	14.3	14.0	13.9	-1.0	Not significant	15.9	14.9	14.4	-4.9	Not significant
ECO_Q_3	300436	743158	93	BDW	10	14.2	13.9	13.8	-0.7	Not significant	15.5	14.6	14.3	-3.6	Not significant
ECO_Q_4	300437	743158	94	BDW	10	14.2	13.9	13.8	-0.7	Not significant	15.4	14.6	14.2	-3.5	Not significant
ECO_R_0	300446	743661	18	CW	3	16.1	15.3	16.4	37.0	Potentially affected	23.2	19.4	23.7	144.4	Potentially affected
ECO_R_1	300456	743658	28	CW	3	15.6	14.9	15.7	25.9	Potentially affected	21.1	18.1	21.3	107.2	Potentially affected
ECO_R_2	300465	743656	38	CW	3	15.2	14.6	15.1	18.6	Potentially affected	19.5	17.1	19.5	81.3	Potentially affected
ECO_R_3	300475	743653	48	CW	3	14.9	14.3	14.8	13.6	Potentially affected	18.3	16.3	18.2	62.6	Potentially affected
ECO_R_4	300485	743651	58	CW	3	14.7	14.2	14.5	10.0	Not significant	17.3	15.7	17.2	48.6	Potentially affected
ECO_R_5	300494	743648	68	CW	3	14.5	14.1	14.3	7.2	Not significant	16.6	15.3	16.4	37.6	Potentially affected

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_R_6	300504	743646	78	CW	3	14.3	14.0	14.1	5.4	Not significant	15.9	14.9	15.8	29.4	Potentially affected
ECO_R_7	300514	743643	88	CW	3	14.2	13.9	14.0	3.9	Not significant	15.5	14.6	15.3	22.8	Potentially affected
ECO_R_8	300524	743641	98	CW	3	14.1	13.8	13.9	3.0	Not significant	15.1	14.4	15.0	17.8	Potentially affected
ECO_R_9	300526	743640	101	CW	3	14.0	13.8	13.9	2.8	Not significant	15.0	14.4	14.9	16.7	Potentially affected
ECO_S_0	300328	743678	87	CW	3	14.4	14.0	14.1	0.9	Not significant	16.5	15.2	15.3	4.3	Not significant
ECO_S_1	300319	743674	95	CW	3	14.3	14.0	14.0	0.5	Not significant	16.0	14.9	15.0	3.1	Not significant
ECO_S_2	300310	743670	103	CW	3	14.2	13.9	13.9	0.5	Not significant	15.6	14.7	14.8	2.7	Not significant
ECO_S_3	300300	743666	110	CW	3	14.1	13.9	13.9	0.4	Not significant	15.2	14.5	14.6	2.5	Not significant
ECO_S_4	300291	743662	118	CW	3	14.0	13.8	13.8	0.4	Not significant	14.9	14.3	14.4	2.4	Not significant
ECO_S_5	300282	743658	126	CW	3	14.0	13.8	13.8	0.4	Not significant	14.7	14.2	14.3	2.4	Not significant
ECO_S_6	300273	743654	134	CW	3	13.9	13.8	13.8	0.4	Not significant	14.5	14.1	14.2	2.5	Not significant
ECO_S_7	300264	743651	142	CW	3	13.9	13.8	13.8	0.4	Not significant	14.4	14.0	14.1	2.4	Not significant
ECO_S_8	300254	743647	150	CW	3	13.9	13.8	13.8	0.4	Not significant	14.3	14.0	14.1	2.4	Not significant
ECO_S_9	300245	743643	158	CW	3	13.9	13.8	13.8	0.4	Not significant	14.3	14.0	14.0	2.2	Not significant
ECO_S_10	300236	743639	166	CW	3	13.8	13.8	13.8	0.4	Not significant	14.2	14.0	14.0	2.0	Not significant

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_S_11	300227	743635	174	CW	3	13.8	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.1	Not significant
ECO_S_12	300218	743631	182	CW	3	13.8	13.7	13.8	0.3	Not significant	14.0	13.9	13.9	2.2	Not significant
ECO_S_13	300208	743627	190	CW	3	13.8	13.7	13.7	0.2	Not significant	14.0	13.9	13.9	1.8	Not significant
ECO_S_14	300199	743623	197	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.9	13.9	1.2	Not significant
ECO_S_15	300190	743619	>200	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.9	13.9	1.0	Not significant
ECO_S_16	300181	743615	>200	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.9	13.9	1.0	Not significant
ECO_S_17	300172	743611	>200	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.9	13.9	1.0	Not significant
ECO_S_18	300162	743607	>200	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.8	13.9	1.0	Not significant
ECO_S_19	300160	743606	>200	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.8	13.9	1.0	Not significant
ECO_T_0	300262	743919	3	CW	3	13.9	13.8	13.8	0.2	Not significant	14.3	14.0	14.1	1.3	Not significant
ECO_T_1	300252	743915	13	CW	3	13.9	13.8	13.8	0.1	Not significant	14.2	14.0	14.0	1.0	Not significant
ECO_T_2	300243	743912	23	CW	3	13.8	13.7	13.8	0.1	Not significant	14.1	13.9	13.9	0.8	Not significant
ECO_T_3	300234	743908	33	CW	3	13.8	13.7	13.7	0.1	Not significant	14.0	13.9	13.9	0.6	Not significant
ECO_T_4	300225	743904	43	CW	3	13.8	13.7	13.7	0.0	Not significant	14.0	13.8	13.8	0.4	Not significant
ECO_T_5	300215	743900	53	CW	3	13.8	13.7	13.7	0.0	Not significant	13.9	13.8	13.8	0.3	Not significant
ECO_T_6	300213	743899	56	CW	3	13.8	13.7	13.7	0.1	Not significant	13.9	13.8	13.8	0.4	Not significant
ECO_U_0	300612	744497	50	CW	3	14.6	14.1	14.4	11.5	Not significant	17.7	15.8	17.4	53.5	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_U_1	300622	744498	60	CW	3	14.4	13.9	14.2	8.4	Not significant	17.0	15.4	16.6	40.7	Potentially affected
ECO_U_2	300632	744499	70	CW	3	14.2	13.8	14.0	6.0	Not significant	16.4	15.0	15.9	30.3	Potentially affected
ECO_U_3	300642	744500	80	CW	3	14.1	13.8	13.9	4.2	Not significant	15.9	14.8	15.4	21.9	Potentially affected
ECO_U_4	300651	744501	90	CW	3	14.1	13.7	13.8	2.6	Not significant	15.7	14.6	15.1	14.5	Potentially affected
ECO_U_5	300661	744502	100	CW	3	14.0	13.7	13.7	1.6	Not significant	15.4	14.5	14.8	9.2	Not significant
ECO_U_6	300671	744503	110	CW	3	13.9	13.7	13.7	1.0	Not significant	15.1	14.3	14.5	6.1	Not significant
ECO_U_7	300681	744503	120	CW	3	13.8	13.6	13.6	0.7	Not significant	14.8	14.1	14.3	4.7	Not significant
ECO_U_8	300691	744504	130	CW	3	13.8	13.6	13.6	0.5	Not significant	14.5	14.0	14.1	3.7	Not significant
ECO_U_9	300701	744505	140	CW	3	13.7	13.6	13.6	0.4	Not significant	14.3	13.9	14.0	2.9	Not significant
ECO_U_10	300711	744506	150	CW	3	13.7	13.6	13.6	0.3	Not significant	14.2	13.9	13.9	2.3	Not significant
ECO_U_11	300721	744507	160	CW	3	13.7	13.6	13.6	0.2	Not significant	14.1	13.8	13.9	2.3	Not significant
ECO_U_12	300731	744508	170	CW	3	13.6	13.5	13.6	0.4	Not significant	14.0	13.8	13.8	2.8	Not significant
ECO_U_13	300741	744509	180	CW	3	13.6	13.5	13.6	0.3	Not significant	13.9	13.7	13.8	2.5	Not significant
ECO_U_14	300751	744510	190	CW	3	13.6	13.5	13.5	0.3	Not significant	13.9	13.7	13.7	2.1	Not significant
ECO_U_15	300761	744511	200	CW	3	13.6	13.5	13.5	0.1	Not significant	13.8	13.7	13.7	1.2	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_U_16	300765	744511	>200	CW	3	13.6	13.5	13.5	0.1	Not significant	13.8	13.7	13.7	1.3	Not significant
ECO_V_0	305865	739554	108	BDW	10	14.5	14.2	14.3	0.3	Not significant	15.4	14.8	15.0	1.8	Not significant
ECO_V_1	305865	739564	118	BDW	10	14.4	14.2	14.2	0.2	Not significant	15.1	14.6	14.8	1.4	Not significant
ECO_V_2	305865	739574	128	BDW	10	14.3	14.2	14.2	0.2	Not significant	14.9	14.5	14.6	1.1	Not significant
ECO_V_3	305866	739584	138	BDW	10	14.3	14.2	14.2	0.1	Not significant	14.8	14.5	14.5	0.9	Not significant
ECO_V_4	305866	739594	148	BDW	10	14.3	14.2	14.2	0.1	Not significant	14.7	14.4	14.5	0.8	Not significant
ECO_V_5	305866	739604	158	BDW	10	14.3	14.2	14.2	0.1	Not significant	14.7	14.4	14.5	0.7	Not significant
ECO_V_6	305866	739605	159	BDW	10	14.3	14.2	14.2	0.1	Not significant	14.6	14.4	14.5	0.7	Not significant
ECO_W_0	305644	739630	161	CW	3	14.3	14.2	14.2	0.5	Not significant	14.6	14.4	14.5	3.5	Not significant
ECO_W_1	305645	739640	171	CW	3	14.2	14.2	14.2	0.5	Not significant	14.6	14.4	14.4	3.1	Not significant
ECO_W_2	305646	739650	181	CW	3	14.2	14.1	14.2	0.3	Not significant	14.5	14.3	14.4	2.5	Not significant
ECO_W_3	305647	739659	191	CW	3	14.2	14.1	14.2	0.2	Not significant	14.4	14.3	14.3	2.0	Not significant
ECO_X_0	304459	740266	58	CW	3	14.6	14.3	14.7	14.6	Potentially affected	16.3	15.2	17.6	77.6	Potentially affected
ECO_X_1	304450	740260	68	CW	3	14.5	14.2	14.6	10.9	Not significant	15.9	15.0	16.8	60.9	Potentially affected
ECO_X_2	304442	740255	78	CW	3	14.4	14.2	14.4	8.2	Not significant	15.6	14.8	16.3	47.9	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_X_3	304434	740249	88	CW	3	14.4	14.2	14.4	6.3	Not significant	15.3	14.7	15.8	37.7	Potentially affected
ECO_X_4	304425	740243	98	CW	3	14.4	14.2	14.3	4.9	Not significant	15.2	14.6	15.5	29.6	Potentially affected
ECO_X_5	304417	740238	108	CW	3	14.3	14.2	14.3	3.6	Not significant	15.2	14.6	15.3	22.9	Potentially affected
ECO_X_6	304409	740232	118	CW	3	14.4	14.2	14.2	3.0	Not significant	15.2	14.6	15.1	18.0	Potentially affected
ECO_X_7	304400	740227	128	CW	3	14.4	14.2	14.2	2.2	Not significant	15.3	14.7	15.1	13.9	Potentially affected
ECO_X_8	304392	740221	138	CW	3	14.4	14.2	14.2	2.0	Not significant	15.5	14.8	15.1	11.8	Not significant
ECO_X_9	304384	740216	148	CW	3	14.4	14.2	14.2	1.9	Not significant	15.5	14.8	15.1	11.3	Not significant
ECO_X_10	304375	740210	158	CW	3	14.4	14.2	14.2	2.0	Not significant	15.4	14.7	15.0	11.4	Not significant
ECO_X_11	304367	740205	168	CW	3	14.3	14.1	14.2	1.6	Not significant	15.1	14.5	14.8	10.0	Not significant
ECO_X_12	304359	740199	178	CW	3	14.3	14.1	14.2	1.1	Not significant	14.9	14.5	14.7	7.6	Not significant
ECO_X_13	304354	740196	183	CW	3	14.3	14.1	14.1	1.0	Not significant	14.8	14.4	14.6	6.3	Not significant
ECO_Y_0	303714	741262	41	BDW	10	15.3	14.7	15.1	4.3	Potentially affected	19.4	17.0	18.9	19.4	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_Y_1	303707	741255	51	BDW	10	15.0	14.5	14.8	3.1	Not significant	18.3	16.3	17.8	15.0	Potentially affected
ECO_Y_2	303700	741248	61	BDW	10	14.8	14.3	14.5	2.3	Not significant	17.3	15.8	16.9	11.7	Potentially affected
ECO_Y_3	303692	741241	71	BDW	10	14.6	14.2	14.4	1.6	Not significant	16.6	15.3	16.3	9.0	Potentially affected
ECO_Y_4	303685	741234	81	BDW	10	14.5	14.1	14.3	1.2	Not significant	16.0	15.0	15.7	7.1	Potentially affected
ECO_Y_5	303678	741227	91	BDW	10	14.3	14.1	14.2	0.9	Not significant	15.6	14.8	15.3	5.5	Potentially affected
ECO_Y_6	303671	741220	101	BDW	10	14.3	14.0	14.1	0.7	Not significant	15.2	14.6	15.0	4.2	Potentially affected
ECO_Y_7	303664	741213	111	BDW	10	14.2	14.0	14.1	0.5	Not significant	14.9	14.4	14.8	3.3	Not significant
ECO_Y_8	303656	741206	121	BDW	10	14.1	14.0	14.0	0.4	Not significant	14.7	14.3	14.6	2.6	Not significant
ECO_Y_9	303649	741199	131	BDW	10	14.1	14.0	14.0	0.3	Not significant	14.6	14.2	14.5	2.0	Not significant
ECO_Y_10	303642	741192	141	BDW	10	14.1	14.0	14.0	0.2	Not significant	14.5	14.2	14.4	1.7	Not significant
ECO_Y_11	303635	741185	151	BDW	10	14.1	14.0	14.0	0.2	Not significant	14.4	14.2	14.3	1.4	Not significant
ECO_Y_12	303628	741178	161	BDW	10	14.0	14.0	14.0	0.1	Not significant	14.4	14.2	14.3	1.1	Not significant
ECO_Y_13	303620	741171	171	BDW	10	14.0	14.0	14.0	0.2	Not significant	14.3	14.1	14.2	1.2	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_Y_14	303613	741165	181	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.3	14.1	14.2	1.0	Not significant
ECO_Y_15	303606	741158	191	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.9	Not significant
ECO_Y_16	303599	741151	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.6	Not significant
ECO_Y_17	303597	741149	>200	BDW	10	14.0	13.9	14.0	0.1	Not significant	14.2	14.1	14.1	0.6	Not significant
ECO_Z_0	303490	741571	86	BDW	10	14.7	14.2	14.4	1.3	Not significant	16.9	15.5	16.1	6.7	Potentially affected
ECO_Z_1	303495	741580	96	BDW	10	14.5	14.2	14.3	1.0	Not significant	16.3	15.1	15.6	5.2	Potentially affected
ECO_AA_0	302058	742449	193	CW	3	13.8	13.7	13.7	0.3	Not significant	13.9	13.8	13.9	3.0	Not significant
ECO_AA_1	302061	742460	>200	CW	3	13.8	13.7	13.7	0.2	Not significant	13.9	13.8	13.9	2.4	Not significant
ECO_AB_0	301754	742397	97	CW	3	14.2	13.9	14.0	3.0	Not significant	15.2	14.5	15.1	18.1	Potentially affected
ECO_AB_1	301755	742407	107	CW	3	14.1	13.9	14.0	2.3	Not significant	14.9	14.4	14.8	14.1	Potentially affected
ECO_AB_2	301756	742417	117	CW	3	14.0	13.9	13.9	1.7	Not significant	14.7	14.2	14.6	10.9	Not significant
ECO_AB_3	301757	742427	127	CW	3	14.0	13.9	13.9	1.3	Not significant	14.5	14.2	14.4	8.5	Not significant
ECO_AB_4	301757	742430	130	CW	3	14.0	13.9	13.9	1.2	Not significant	14.5	14.1	14.4	8.0	Not significant
ECO_AC_0	301695	742412	109	CW	3	14.1	13.9	14.0	2.3	Not significant	14.8	14.3	14.8	14.5	Potentially affected

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	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_AC_1	301695	742422	119	CW	3	14.0	13.9	13.9	1.8	Not significant	14.6	14.2	14.5	11.3	Not significant
ECO_AC_2	301696	742432	129	CW	3	14.0	13.9	13.9	1.2	Not significant	14.5	14.1	14.4	8.7	Not significant
ECO_AC_3	301697	742442	139	CW	3	14.0	13.9	13.9	1.0	Not significant	14.4	14.1	14.3	6.9	Not significant
ECO_AC_4	301697	742452	149	CW	3	13.9	13.8	13.9	0.8	Not significant	14.3	14.1	14.2	5.8	Not significant
ECO_AC_5	301698	742462	159	CW	3	13.9	13.8	13.9	0.7	Not significant	14.3	14.0	14.2	5.0	Not significant
ECO_AC_6	301698	742472	169	CW	3	13.9	13.8	13.9	0.7	Not significant	14.2	14.0	14.2	5.0	Not significant
ECO_AC_7	301699	742482	179	CW	3	13.9	13.8	13.9	0.6	Not significant	14.1	14.0	14.1	4.2	Not significant
ECO_AC_8	301700	742492	189	CW	3	13.9	13.8	13.8	0.6	Not significant	14.1	13.9	14.0	3.6	Not significant
ECO_AC_9	301700	742502	199	CW	3	13.9	13.8	13.8	0.3	Not significant	14.1	13.9	14.0	2.6	Not significant
ECO_AC_10	301700	742507	>200	CW	3	13.9	13.8	13.8	0.3	Not significant	14.1	13.9	14.0	2.5	Not significant
ECO_AD_0	301427	742472	157	CW	3	13.9	13.8	13.9	0.9	Not significant	14.2	14.0	14.2	6.4	Not significant
ECO_AD_1	301427	742482	167	CW	3	13.9	13.8	13.9	0.8	Not significant	14.1	14.0	14.1	6.3	Not significant
ECO_AD_2	301428	742492	177	CW	3	13.9	13.8	13.9	0.7	Not significant	14.1	13.9	14.1	5.4	Not significant
ECO_AD_3	301428	742502	187	CW	3	13.9	13.8	13.8	0.5	Not significant	14.1	13.9	14.0	3.4	Not significant
ECO_AD_4	301429	742512	197	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.3	Not significant
ECO_AD_5	301429	742518	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.0	Not significant
ECO_AE_0	301005	742529	196	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.1	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_AE_1	301006	742536	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	1.8	Not significant
ECO_AF_0	300955	742512	174	CW	3	14.0	14.0	14.0	0.6	Not significant	14.3	14.1	14.2	4.2	Not significant
ECO_AF_1	300956	742522	184	CW	3	14.0	14.0	14.0	0.4	Not significant	14.2	14.1	14.2	3.5	Not significant
ECO_AF_2	300958	742532	194	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	2.4	Not significant
ECO_AF_3	300959	742539	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	1.9	Not significant
ECO_AG_0	300470	742319	179	CW	3	14.0	14.0	14.0	0.3	Not significant	14.3	14.1	14.2	2.6	Not significant
ECO_AG_1	300463	742312	189	CW	3	14.0	14.0	14.0	0.3	Not significant	14.2	14.1	14.1	2.4	Not significant
ECO_AG_2	300456	742305	199	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	2.1	Not significant
ECO_AG_3	300453	742301	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	2.0	Not significant
ECO_AH_0	300493	742495	28	CW	3	15.5	14.9	15.6	26.4	Potentially affected	20.2	17.5	20.8	110.4	Potentially affected
ECO_AH_1	300486	742487	38	CW	3	15.2	14.6	15.2	19.0	Potentially affected	18.9	16.7	19.2	83.9	Potentially affected
ECO_AH_2	300480	742480	48	CW	3	14.9	14.4	14.8	13.5	Potentially affected	17.9	16.1	18.0	64.3	Potentially affected
ECO_AH_3	300473	742473	58	CW	3	14.7	14.3	14.6	9.9	Not significant	17.0	15.6	17.1	49.8	Potentially affected
ECO_AH_4	300466	742465	68	CW	3	14.6	14.2	14.4	7.4	Not significant	16.4	15.2	16.4	38.8	Potentially affected

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_AH_5	300460	742458	78	CW	3	14.4	14.1	14.3	5.3	Not significant	15.8	14.9	15.8	30.0	Potentially affected
ECO_AH_6	300453	742450	88	CW	3	14.3	14.1	14.2	4.1	Not significant	15.4	14.7	15.4	23.4	Potentially affected
ECO_AH_7	300446	742443	98	CW	3	14.2	14.0	14.1	2.9	Not significant	15.1	14.5	15.1	17.9	Potentially affected
ECO_AH_8	300440	742435	108	CW	3	14.2	14.0	14.1	2.1	Not significant	14.8	14.4	14.8	13.8	Potentially affected
ECO_AH_9	300433	742428	118	CW	3	14.1	14.0	14.0	1.5	Not significant	14.7	14.3	14.6	10.5	Not significant
ECO_AH_10	300426	742421	128	CW	3	14.1	14.0	14.0	1.2	Not significant	14.5	14.2	14.5	8.1	Not significant
ECO_AH_11	300419	742413	138	CW	3	14.1	14.0	14.0	1.0	Not significant	14.5	14.2	14.4	6.3	Not significant
ECO_AH_12	300413	742406	148	CW	3	14.1	14.0	14.0	0.7	Not significant	14.4	14.2	14.3	4.9	Not significant
ECO_AH_13	300406	742398	158	CW	3	14.0	14.0	14.0	0.6	Not significant	14.4	14.2	14.3	4.4	Not significant
ECO_AH_14	300399	742391	168	CW	3	14.0	14.0	14.0	0.7	Not significant	14.3	14.1	14.3	4.7	Not significant
ECO_AH_15	300393	742384	178	CW	3	14.0	14.0	14.0	0.6	Not significant	14.2	14.1	14.2	4.0	Not significant
ECO_AH_16	300386	742376	188	CW	3	14.0	14.0	14.0	0.3	Not significant	14.2	14.1	14.1	3.0	Not significant
ECO_AH_17	300379	742369	198	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	2.1	Not significant
ECO_AH_18	300375	742364	>200	CW	3	14.0	14.0	14.0	0.2	Not significant	14.2	14.1	14.1	2.0	Not significant
ECO_AI_0	300488	743016	152	CW	3	13.9	13.8	13.8	-0.4	Not significant	14.3	14.0	13.9	-2.0	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_AI_1	300498	743015	162	CW	3	13.8	13.8	13.7	-0.4	Not significant	14.2	14.0	13.9	-1.9	Not significant
ECO_AI_2	300508	743014	172	CW	3	13.8	13.8	13.7	-0.2	Not significant	14.2	14.0	13.9	-1.5	Not significant
ECO_AI_3	300517	743013	182	CW	3	13.8	13.8	13.7	-0.1	Not significant	14.1	13.9	13.9	-0.3	Not significant
ECO_AI_4	300521	743013	186	CW	3	13.8	13.7	13.7	0.0	Not significant	14.1	13.9	13.9	0.1	Not significant
ECO_AJ_0	300071	742987	188	CW	3	14.0	13.9	14.0	0.3	Not significant	14.2	14.1	14.1	2.2	Not significant
ECO_AJ_1	300061	742986	198	CW	3	14.0	13.9	14.0	0.3	Not significant	14.2	14.1	14.1	2.1	Not significant
ECO_AJ_2	300053	742985	>200	CW	3	14.0	13.9	14.0	0.3	Not significant	14.2	14.1	14.1	2.1	Not significant
ECO_AK_0	300017	743249	>200	CW	3	13.8	13.7	13.7	0.2	Not significant	14.0	13.8	13.9	2.1	Not significant
ECO_AK_1	300007	743248	>200	CW	3	13.8	13.7	13.7	0.2	Not significant	14.0	13.8	13.9	2.1	Not significant
ECO_AK_2	299997	743247	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.0	Not significant
ECO_AK_3	299987	743245	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.0	Not significant
ECO_AK_4	299978	743244	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.0	Not significant
ECO_AK_5	299970	743243	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	2.0	Not significant
ECO_AL_0	300012	743348	>200	CW	3	13.8	13.7	13.7	0.2	Not significant	14.0	13.8	13.9	2.0	Not significant
ECO_AL_1	300002	743351	>200	CW	3	13.8	13.7	13.7	0.2	Not significant	14.0	13.8	13.9	2.0	Not significant
ECO_AL_2	299993	743354	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	1.9	Not significant
ECO_AL_3	299983	743357	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	1.9	Not significant

Receptor ID	Location		Distance to Nearest A9 ARN Road Link (DS 2036) (m)	Priority Habitat	Minimum CL (kg N/ha/yr)	Total N-Dep Rate without NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance	Total N-Dep Rate with NH_3 (kg N/ha/yr)			(DS-DM)/CL (%)	Determination of Significance
	X	Y				2023 Base	2036 DM	2036 DS			2023 Base	2036 DM	2036 DS		
ECO_AL_4	299980	743358	>200	CW	3	13.9	13.8	13.8	0.2	Not significant	14.1	13.9	14.0	1.9	Not significant
ECO_AM_0	300147	743776	140	CW	3	13.7	13.7	13.7	-0.1	Not significant	13.7	13.7	13.7	-0.1	Not significant
ECO_AM_1	300137	743774	150	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant
ECO_AM_2	300127	743772	160	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant
ECO_AM_3	300117	743770	170	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant
ECO_AM_4	300108	743768	180	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant
ECO_AM_5	300098	743766	190	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant
ECO_AM_6	300088	743764	200	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant
ECO_AM_7	300084	743763	>200	CW	3	13.7	13.7	13.7	0.0	Not significant	13.7	13.7	13.7	0.0	Not significant

1.4 References

National Highways, Transport Scotland, Welsh Government and the Department for Infrastructure (2024). LA 105: Design Manual for Roads and Bridges (DMRB) Air Quality. Available at: https://www.standardsforhighways.co.uk/search/af7f4cda-08f7-4f16-a89f-e30da703f3f4 (Accessed October 2024).

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