



NAVIGATOR QUARTER, LAND ADJACENT TO SOUTHAMPTON AIRPORT

ENVIRONMENTAL STATEMENT (VOLUME 3)

TECHNICAL ANNEX B. AIR QUALITY

HYBRID PLANNING APPLICATION

MAY 2025

**blocwork (Eastleigh) LLP
&
Southampton International Airport Ltd**



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Our reference: 31794 RP 005 Technical Annex B

Date: 28.05.2025

Appendix 7.1 – Scope/Methodology from Scoping Report

Introduction

This chapter will set out the findings of the Air Quality Assessment undertaken in support of the planning application. The assessment will consider the impact of the development on the surrounding area, during both the construction and operational phases.

Existing local air quality, the likely future air quality in the absence of the new development, and the likely future air quality if the development goes ahead will all be defined. The assessment of construction impacts will focus on the anticipated duration of works. The assessment of operational impacts will focus on the earliest year that the development is likely to be operational to provide a worst-case assessment.

Eastleigh Borough Council (EBC) has declared a number Air Quality Management Areas (AQMA) for exceedances of the annual mean nitrogen dioxide (NO₂) objective including AQMA No.1 covering the A335 and AQMA No.2 covering the M3, both of which lie to the west of the development area. The Application Site falls outside of the AQMA, however, traffic generated by the development has the potential to impact air quality within the AQMA. The assessment will therefore consider impacts within the AQMA and surrounding area.

There are a large number of site designated for the protection of wildlife in the area around the Site including the River Itchen Site of Special Scientific Interest (SSSI) and Special Protection Area (SAC), located immediately east and south-east of the Site and the New Forest SSSI and SAC in the wider area. Emissions generated during the construction phase and associated with construction and operational traffic has the potential to impact sensitive qualifying features within a number of designated sites. The assessment will therefore consider impacts on relevant ecological receptors.

Baseline Conditions

Monitoring carried out by EBC has shown a downward trend in NO₂ concentrations in recent years, and data recorded during 2023 shows widespread compliance with the annual mean and 1-hour NO₂ objective limits across the borough, including within the AQMAs.

There is limited monitoring of particulate matter across the borough. However, monitoring at the automatic roadside site ES1 Southampton Road, which falls within the AQMA No.1, shows long-term compliance with the annual mean and 24-hour PM10 objective limits. Data recorded during 2023 also shows PM2.5 concentrations below the annual mean objective limit for this pollutant and below the Governments interim and long-term Environmental Improvement Targets. Monitoring also shows a slight downward trend in particulate concentrations across the borough.

It is expected that traffic related NO2 and PM concentrations will continue to decline in future years due to improvements in vehicle emissions, however there is the potential that increases in traffic associated with the proposed development and other committed developments may outweigh any improvements in vehicle emissions resulting in an overall increase in concentrations in future years, particularly within sensitive locations such as AQMA No.1.

The development site is located approximately 0.5 km to the east of the A335 and is considered to be a background location in terms of air quality. Air quality at the Site is expected to be generally equivalent to background concentrations, i.e. well below the relevant air quality objectives for NO2, PM10 and PM2.5.

As part of the ES monitoring undertaken by EBC and collated within the EBC 2024 ASR will be used to inform the baseline assessment. Further data relating to background concentrations of nitrogen oxides and nutrient deposition rates within those designated wildlife sites that are identified and scoped into the assessment will be collated from the Air Pollution information System (APIS) .

Potential Impacts

Construction Phase

There is the potential for significant impacts during construction at sensitive receptors within 250 m of the site. The most significant impacts are likely to occur at those receptors closest to the site including residential properties to the west/North-west on Campbell Road and the adjacent River Itchen SSSI/SAC.

There is also the potential for significant impacts on local air quality from construction traffic travelling to and from the site along Mitchell Way and the wider network. Although trip generation during the construction phase is generally lower than the trips associated with the operational phase, construction vehicles include a high proportion

of heavy duty vehicles, which can generate higher emissions, and in conjunction with trips associated with other developments being constructed at the same time can result in significant impacts on local air quality, all be it of a temporary and short-term nature.

Operational Phase

As previously discussed, the operational development will generate additional vehicle movements on the adjacent road network, potentially within the AQMA No.1 and AQMA No.2 and designated sites within close proximity to the affected road network. There is the potential for these additional vehicle movements to result in a significant impact on air quality within the AQMA and any identified designated sites.

Energy servicing plant such as gas fired boilers, biomass boilers and combined heat and power (CHP) units have the potential to generate significant emissions, also contributing to impacts on local air quality.

The main receptors of concern will be residential properties, educational facilities and health/community related facilities located close to the main road network where traffic flows are likely to be most significant and designated wildlife sites that fall within 200 m of an 'affected road' as defined within guidance published by the Institute of Air Quality Management (IAQM) on assessing air quality impacts on designated conservation sites and the Design Manual for Roads and Bridges (DMRB) .

Approach and Methodology

Baseline Air Quality

Existing local air quality will be defined within the study area drawing on monitoring carried out by EBC with the information provided within the Council's Air Quality Review and Assessment reports (2024 ASR) and through detailed modelling of local traffic related emissions.

Receptors

Air quality will be assessed at a range of worst-case receptor locations. For construction activities these will be existing properties closest to the proposed development and the adjacent River Itchen SSSI.

For traffic-related impacts these will be existing sensitive human receptors (i.e. residential and educational properties) that are closest to busy roads, in particular those

close to junctions, where traffic emissions are greatest and ecological receptors within designated sites within 200m of 'affected roads'.

Study Area

For construction and demolition effects, the study area will be within 250 metres of the site, as defined by the IAQM guidance on assessing emissions from construction and demolition.

For construction and operational traffic effects, an initial screening of construction and operational development trips will be carried out to determine the full extent of the study area.

For assessing impacts on human receptors, the study area will be defined by screening the construction and operational trips against the following criteria set out within the current air quality planning guidance published by the Institute of Air Quality Management (IAQM) :

- A change in LGV (and cars) of more than 100 per day (as Annual Average Daily Traffic (AADT) within or adjacent to an AQMA, a change of more than 500 per day elsewhere;
- A change in HGV of more than 25 per day within or adjacent to an AQMA, a change of more than 100 per day elsewhere.

For assessing ecological receptors construction and operational trips associated with the development will be screened against the following criteria as detailed in IAQM guidance and DMRB:

An in combination with other committed developments increase in traffic flows of >1,000 total annual average daily traffic (AADT) and/or >200 HDV AADT - Defined as an 'Affected Road';

The study area for ecological effects will be determined where any international (SAC, Special Protection Area (SPA) or RAMSAR) or national (SSSI, National Nature Reserve (NNR), Ancient Woodland) designated sites fall within 200m of an 'affected road'.

Construction Dust Assessment

The potential impacts of dust during construction will be assessed, making reference to the IAQM guidance on the assessment of dust from demolition and construction. Emissions from on-site plant during construction will be assessed if any potentially significant sources are identified.

The assessment will consider all phases of the construction process and will determine the likely risk of significant effects at adjacent receptors to define appropriate mitigation measures to be employed during the construction phase to minimise emissions and reduce the risk of effects to negligible.

Traffic Emissions Assessment

The assessment of road traffic impacts (construction and operational) will be undertaken using the ADMS Roads detailed dispersion model. This modelling will make use of 2023 meteorological data from Southampton Airport, mapped background concentration data provided by Defra or local background monitoring data, and of traffic flow projections.

Model outputs will be verified against local air quality monitoring data using the latest full years' worth of data available for 2023.

Air quality at the site will be assessed in relation to the national air quality objectives, established by the Government to protect human health. The objectives are set as concentrations below which effects are unlikely even in sensitive population groups, or below which risks to public health would be exceedingly small. Predicted concentrations will be used to determine impacts associated with exposure of future occupants of the site.

The road traffic modelling will assess the with and without construction/operational traffic scenarios (where trips exceed the IAQM screening criteria) to determine impacts of construction and operational phase traffic on local air quality at human receptors. The model will predict changes in NO₂, PM₁₀ and PM_{2.5} at selected sensitive receptors.

The significance of identified effects from development traffic will be determined referring to criteria defined by the IAQM guidance on land-use planning and development control.

The road traffic modelling will assess the with and without construction/operational traffic scenarios at the relevant designated sites identified within the study area.

The change in NO_x, Ammonia (NH₃) and nutrient nitrogen as a result of the proposed development will be determined based on the relevant critical levels (CL) and critical loads (CLO) for each designated site as defined on the APIS website. In accordance with the IAQM guidance on the assessment of air quality impacts on designated nature conservations sites, where the predicted change falls below 1% of the relevant CL and CLO, impacts will be concluded as 'not significant'.

Where the predicted effects exceeds the 1% screening criteria, the results will be assessed in more detail by the project ecologist to determine whether the predicted change will be significant, taking into account the location of qualifying features within the designated sites.

All practical and reasonable measures which can be implemented to mitigate any detrimental impacts associated with construction and operation of the proposed development will be considered and highlighted within the air quality assessment. The mitigation measures will be based on the measures recommended through current best practice guidance, while mitigation during the construction phase will be based on the measures recommended within the IAQM construction assessment guidance.

Energy Servicing Plant Emissions

A review of the energy strategy will be carried out to determine the energy plant proposed for the site.

Where the energy strategy proposing an all-electric design such as Air Source Heat Pumps, in combination with renewables (i.e. Photovoltaics), impacts on local air quality from energy servicing plant will be negligible and will be scoped out for further assessment.

Where the proposals include for gas fired boilers, biomass or CHP, an initial qualitative review and screening of the plant will be carried out in accordance with current guidance. Where this screening identified a risk of significant emissions the impact of the energy plant will be assessed using the ADMS Extra dispersion model, taking account of meteorological conditions over a 3-5 year period, to predict impacts at relevant human and ecological receptors and determine appropriate stack heights to

ensure a good level of dispersion to ensure negligible changes in pollution levels at relevant sensitive receptors.

Cumulative Impacts

Traffic associated with other committed developments will be included within the traffic data used for the construction and operational assessment, where relevant.

Construction impacts will take account of the cumulative impacts of other committed developments within 500 m of the Site, given that emissions can result in impacts up to 250 m from construction related activities.

Appendix 7.2 – Modelling Methodology and Input Data

Emissions Data

Emission factors and background data used in the prediction of future air quality concentrations predict a gradual decline in pollution levels over time due to improved emissions from new vehicles and the gradual renewal of the vehicle fleet. In recent years the Defra emission factors published within the Emission Factor Toolkits (EFT) have been found to predict lower NO_x concentrations in future years compared to concentrations measures at roadside locations across the UK. However, research carried out by Air Quality Consultants Ltd (AQC) has now shown that emissions of NO_x from vehicles within the recently released EFT are now matching concentrations recorded at roadside locations between 2013 to 2019. The report¹ concludes that *‘the EFT is now unlikely to over-state the rate at which NO_x emissions decline into the future at an ‘average’ site in the UK. Indeed, the balance of evidence suggests that, on average, NO_x concentrations are likely to decline more quickly in the future than predicted by the EFT’*. This has removed the need for the use of any sensitivity tests for future year scenarios.

In light of the above, 2023 emission factors have been used for the 2023 base year assessment and 2028 emission factors for the future 2028 assessment year.

ADMS Roads Model Input Data

Input data used for the AQMS Roads dispersion modelling is set out in **Table 7.2.1** below.

Table 7.2.1: Scope of the Air Quality Assessment

Model Version	ADMS-Roads v5.0.1.3, January 2022
Street Canyons	No Street Canyons included
British Summer Time (BST)	Adjustment for BST was made within the model, based on the following dates and times: BST begins – 01:00 on 27/03/2022 BST ends – 02:00 on 30/10/2022
Emission Factor Toolkit (EFT)	Version 13.0.1, March 2025
Meteorological Data	2023 hourly meteorological data from Southampton Airport met station has been

¹ <https://www.aqconsultants.co.uk/news/march-2020/defra%E2%80%99s-emission-factor-toolkit-now-matching-measu>

Model Version	ADMS-Roads v5.0.1.3, January 2022
	used in the model. The wind rose is shown in Figure 7.4.1.
Latitude	52°
Surface Roughness	A value of 1.5 for 'large urban areas' was used to represent the modelled area. A value of 1.5 was also used to represent the meteorological station site.
Minimum Monin-Obukhov Length	A value of 30 for 'mixed urban and industrial' was used to represent the modelled area. A value of 30 was also used to represent the meteorological station site.
Surface Albedo	A value of 0.23 (default) was used to represent the modelled area. A value of 0.23 was also used to represent meteorological station site.
NO _x to NO ₂ Conversion	NO _x to NO ₂ Calculator version 8.1
Background Maps	2021 reference year background maps and APIS Website

Traffic Data

Traffic Data used in the ADMS Roads model is set out in **Table 7.2.2** below.

Table 7.2.2: Traffic Data used in ADMS Model

Road Link	Speed (kph)	2023 Base		2025 Base		2028 Base + Committed (Do-minimum)		2028 Do-Something	
		AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV
1 – A335 Station Hill	25 at roundabout	19,796	9	20,435	9	20,701	9	9	21,187
2 – A335 Wide Lane	30 -48 (25 at roundabouts)	22,033	9	22,718	9	23,053	9	9	23,550
3 – A335	48	23,830	13	24,772	12	25,086	12	5	27,657
4 – M27 West	96	118,063	5	120,931	5	122,882	5	6	123,779
5 – M27 East	96	109,383	5	111,696	5	113,820	5	6	114,753
6 – Wide Lane (N of Spitfire Roundabout)	Not Included in Model	16,243	12	17,279	11	17,425	11	14	20,503
7 – Mitchell Way	Not Included in Model	2,884	12	4,038	9	3,415	10	18	7,407
8 – Wide Lane (N of Mount Park)	35-48	13,913	10	14,688	10	14,951	10	9	15,866
9 – Mansbridge Road	35-48	13,505	1	14,109	1	14,519	1	1	14,944
10 – A27 Bassett Green Road	48	6,030	2	6,154	2	6,261	2	2	6,261

Road Link	Speed (kph)	2023 Base		2025 Base		2028 Base + Committed (Do-minimum)		2028 Do-Something	
		AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV
11 – A335 Stoneham Way	35	33,865	2	34,725	2	35,423	2	2	35,754
12 – B3037 Bishopstoke Road	48-56	31,082	9	31,828	9	32,392	9	9	32,695
13 – A335 Twyford Road	35-48	10,575	1	10,904	1	11,052	1	1	11,208
14 – M3 (north of M27)	96	136,995	8	140,109	8	142,438	8	8	142,906
15 – M27 (W of M3)	96	127,419	7	130,352	7	132,519	7	8	132,950
16 – A335 Ramsey Road (Leigh Road)	35-48	12,912	5	13,221	5	13,436	5	5	13,458

Model Verification

Model verification and adjustment is undertaken when modelling traffic emissions to improve the accuracy of the model emissions.

Most nitrogen dioxide (NO₂) is produced in the atmosphere by reaction of nitric oxide (NO) with ozone. It is therefore most appropriate to verify the model in terms of primary pollutant emissions.

Verification of concentrations predicted by the ADMS model has followed the methodology presented in LAQM.TG(22).

Verification of the model results has been carried out against monitoring sites located at roadside locations along the A335 and M3; Sites BR, SR1, SR2, SPAN, TP, TW, MS and LRPR. The locations of these monitoring sites are shown in **Figure 7.3.2**.

The model output of road-NO_x (i.e. the component of total NO_x coming from road traffic) has been compared with the 'measured' road-NO_x (**Figure 7.2.2**). The 'measured' road NO_x has been calculated from the measured NO₂ concentrations by using the DEFRA NO_x from NO₂ calculator available on the UK-AIR website.

Figure 7.2.2: Comparison of Modelled Road NO_x with Measured Road NO_x

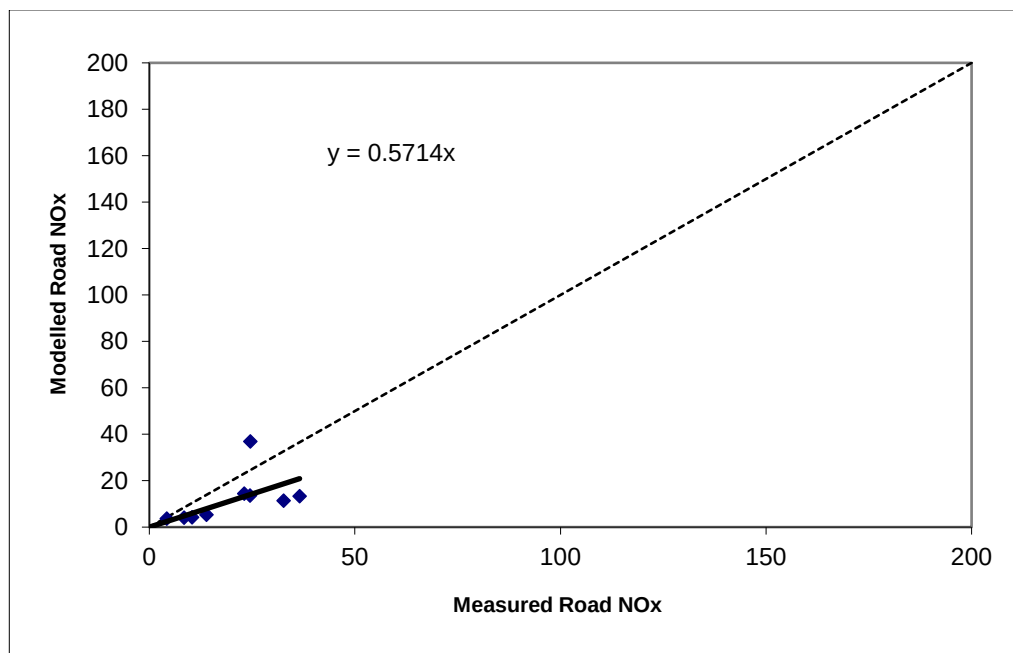


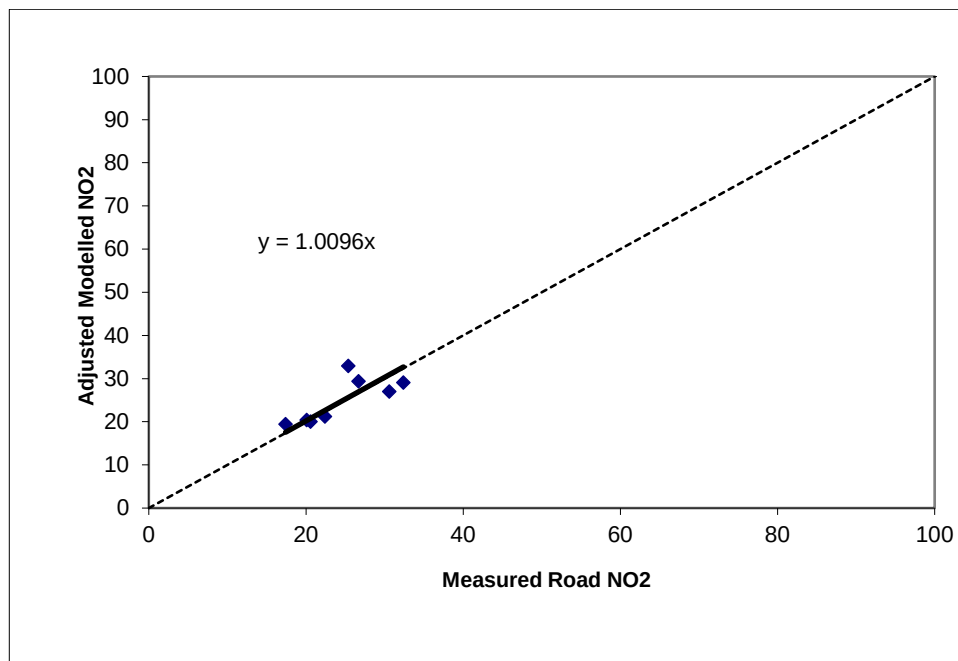
Figure 7.2.2 shows that the ADMS model is under-predicting the road-NO_x concentrations at all the monitoring sites. An Adjustment factor has therefore been calculated.

The has been determined as the ratio between the measured road-NO_x contribution and the modelled road-NO_x contribution, forced through zero ($1/0.5714 = 2.23$). This factor has been applied to the modelled road-NO_x concentration for each location to provide an adjusted modelled road-NO_x concentration.

The annual mean road- NO₂ concentration was determined using the DEFRA NO_x: NO₂ spread sheet calculation tool and added to the background NO₂ concentration to produce a total adjusted NO₂ concentration.

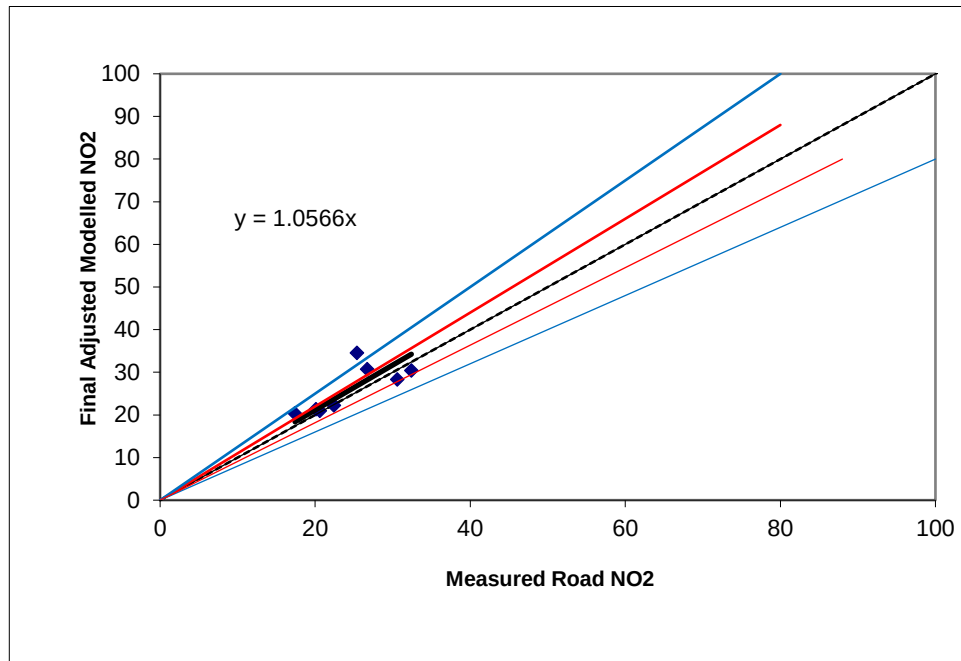
Figure 7.2.3 shows the adjusted modelled total NO₂ vs monitored NO₂. There is good agreement, but the best fit line forced through zero still has a slight departure from a 1:1 line, thus a secondary adjustment factor, to be applied to the adjusted modelled total NO₂, was calculated ($1/0.9555=1.047$).

Figure 7.2.3: Comparison of Modelled NO2 with Measured NO2



After carrying out an initial adjustment there was a need for only a very small secondary adjustment of NO. The final adjustment modelled values are shown in **Figure 7.2.4**. are all within the preferred 25% of monitored concentrations with the exception of site BR, with the adjustment resulting in an over prediction of 35.8%. As this is an over prediction and therefore representing a worst-case, the adjustment is considered acceptable. Overall, the adjusted results are showing no tendency to over or under predict concentrations.

Figure 7.2.4: Comparison of Adjusted Modelled NO₂ with Measured NO_x



Further review of the verification process was undertaken to determine the uncertainty of the model results and subsequent adjusted model results. The Root Mean Square Error (RMSE) was calculated for both the unadjusted and adjusted model results. LAQM.TG(22) recommends that the RMSE should be within 10% of the air quality objective, which equates to 4 µg/m for NO₂.

The RMSE of the unadjusted results was calculated as 6.3 µg/m³, reducing to 3.9 µg/m³ following adjustment. The adjusted results are all within the preferred 25% of monitored concentrations with the exception of site BR, with the adjustment resulting in an over prediction of 35.8%. As this is an over prediction and therefore representing a worst-case, the adjustment is considered acceptable. Overall, the adjusted results are showing no tendency to over or under predict concentrations..

The adjustment factor of 2.23 has been applied to the modelled NO_x-road concentrations predicted at the selected receptors. The predicted NO₂-road concentrations, calculated using the NO_x- NO₂ converter tool, have subsequently been added to background NO₂ and adjusted by a factor of 1.047 to provide the final predicted annual mean NO₂ concentrations at each receptor.

Although there is a PM₁₀ monitor located on Southampton Road, during 2023 data capture was less than 70%, therefore the Site is not considered suitable for model verification purposes. As a result the NO adjustment factors have also been used to

adjust the predicted PM₁₀ and PM_{2.5} concentrations in accordance with guidance set out in LAQM.TG(22).

Model Results Processing (Ecology)

Guidance AQTAG06 sets out empirical methods for calculating nitrogen deposition rates based on calculated NO_x and NH₃ concentrations and deposition velocity using the following formula:

$$\text{Dry deposition flux } (\mu\text{g}/\text{m}^2/\text{yr}) = \text{ground level concentration } (\mu\text{g}/\text{m}^3) \times \text{deposition velocity } (\text{m}/\text{s})$$

The AQTAG06 guidance only provides deposition velocities for grassland and forest habitats. The relevant deposition rate for has been used for each receptor based on the habitat type following a review of google earth. The conversion rates are set out in **Table 7.2.3**.

The resulting nitrogen dry deposition rate ($\mu\text{g}/\text{m}^2/\text{s}$) can be converted to N-deposition in kg/ha/yr by multiplying by a factor of 95.9.

To calculate acid deposition, a factor of 6.84 is applied to the calculated N-dry deposition flux as set out in the AQTAG06 guidance. Total acid deposition is subsequently calculated by adding the N-acid deposition.

The maximum predicted deposition rates are compared with site specific critical loads obtained from APIS, as set out in **Table 7.5 ES Chapter 7**.

Table 7.2.3: Conversion Factors to Calculate Deposition Velocities and Deposition Rates

Pollutant	Dry Deposition Velocity (for grassland)	Dry Deposition Velocity (for woodland)	Deposition Conversion Rate (kg/ha/yr)	Acid Deposition Conversion Factor (keq/ha/yr)
NO _x	0.0015	0.003	95.9	6.84
NH ₃	0.02	0.03	260	18.5

Receptors Used in Dispersion Model

Human Receptors

Human receptors used in the ADMS Roads dispersion model are set out in **Table 7.2.4** below and shown in **Figure 7.3.2**.

Table 7.2.4: Human receptors used in ADMS Roads Dispersion Model

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)
		X	Y	
R1	University Sports Ground	444827	117182	1.5
R2	1-19 South St	445199	117714	1.5
R3	350 Southampton Rd	445348	117965	1.5
R4	280 Southampton Rd	445460	118176	1.5
R5	212 Southampton Rd	445595	118465	1.5
R6	Godfrey Olsen Hse	445669	119290	1.5
R7	Eastleigh Health Centre	445518	119234	1.5
R8	The Point	445317	119170	1.5
R9	Alston Hse Care Home	445279	119160	1.5
R10	60 Leigh Road	445029	119156	1.5
R11	145 Leigh Rd	444708	119220	1.5
R12	174 Leigh Rd	444558	119319	1.5
R13	Casbrook Care Home	444326	119361	1.5
R14	Luxe Homes, 192-194 Leigh Rd	444359	119409	1.5
R15	3 Ashton Gdns	445707	119552	1.5
R16	18 Twyford Rd	445718	119667	1.5
R17	71 Twyford Rd	445716	119757	1.5
R18	8 Bishopestoke Rd	446027	119170	1.5
R19	55 Bishopestoke Rd	446484	119178	1.5
R20	22 Robin Sq	443390	118541	1.5
R21	16 Dove DI	443548	118740	1.5
R22	37 Belmont Rd	443799	119301	1.5
R23	4 Mount Drive	444171	119926	1.5
R24	18 Claudius Gdns	444702	120934	1.5

Ecology receptors used in the ADMS Roads model are set out in **Table 7.2.5** below and shown in **Figures 7.3.3**. The ecology receptors have been selected as transects up to 200 m from the nearest road.

Table 7.2.5: Ecology receptors used in ADMS Roads Dispersion Model

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E1 1	Northend Copse AW/SINC	443645	118898	0	East of M3	2
E1 2		443653	118892			12
E1 3		443660	118885			22
E1 4		443668	118887			32
E1 5		443674	118871			42
E1 6		443682	118864			52
E1 7		443689	118858			62

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E1 8		443697	118851			72
E1 9		443704	118843			82
E1 10		443711	118837			92
E1 11		443719	118830			102
E1 12		443727	118824			112
E1 13		443734	118818			122
E1 14		443742	118811			132
E1 15		443749	118805			142
E1 16		443758	118797			152
E1 17		443764	118791			162
E1 18		443771	118783			172
E1 19		443779	118777			182
E1 20		443786	118770			192
E1 21		443793	118764			202
E2 1	Northend Copse AW/SINC	443608	118934	0	West of M3	2
E2 2		443600	118940			12
E2 3		443591	118945			22
E2 4		443583	118951			32
E2 5		443575	118957			42
E2 6		443566	118962			52
E2 7		443558	118968			62
E2 8		443550	118973			72
E2 9		443541	118980			82
E2 10		443534	118985			92
E2 11		443526	118992			102
E2 12		443517	118996			112
E2 13		443508	119001			122
E2 14		443500	119007			132
E2 15		443492	119013			142
E2 16		443483	119017			152
E2 17		443475	119024			162
E2 18		443467	119030			172
E2 19		443459	119035			182
E2 20		443450	119040			192
E2 21		443442	119046			202
E3 1	Park wood AW	444473	120247	0	E of M3	30
E3 2		444482	120242			40
E3 3		444491	120238			50
E3 4		444500	120234			60
E3 5		444509	120229			70
E3 6		444518	120225			80

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E4 1	Matthews Moor AW	440135	117981	0	S of M27	13
E4 2		440135	117974			20
E4 3		440135	117964			30
E4 4		440135	117954			40
E4 5		440135	117944			50
E4 6		440135	117934			60
E4 7		440135	117924			70
E4 8		440135	117914			80
E4 9		440135	117904			90
E4 10		440135	117894			100
E4 11		440135	117884			110
E4 12		440135	117874			120
E4 13		440135	117864			130
E4 14		440135	117854			140
E4 15		440135	117844			150
E4 16		440135	117834			160
E4 17		440135	117824			170
E4 18		440135	117814			180
E4 19		440135	117804			190
E4 20		440135	117794			200
E5 1	Hazel Copse AW	440190	118038	0	N of M27	7
E5 2		440190	118041			10
E5 3		440190	118051			20
E5 4		440190	118061			30
E5 5		440190	118071			40
E5 6		440190	118081			50
E5 7		440190	118091			60
E5 8		440190	118101			70
E5 9		440190	118111			80
E5 10		440190	118121			90
E5 11		440190	118131			100
E5 12		440190	118141			110
E5 13		440190	118151			120
E5 14		440190	118161			130
E5 15		440190	118171			140
E5 16		440190	118181			150
E5 17		440190	118191			160
E5 18		440190	118213			182
E5 19		440190	118221			190
E5 20		440190	118231			200
E6 1		443064	116706	0	N of M27	7.5

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E6 2	Hardmoor Copse AW/SINC	443064	116709			10
E6 3		443064	116719			20
E6 4		443064	116729			30
E6 5		443064	116739			40
E6 6		443064	116749			50
E6 7		443064	116759			60
E6 8		443064	116769			70
E6 9		443064	116779			80
E6 10		443064	116789			90
E6 11		443064	116799			100
E6 12		443064	116809			110
E6 13		443064	116819			120
E6 14		443064	116829			130
E6 15		443064	116839			140
E6 16		443064	116849			150
E6 17		443064	116859			160
E6 18		443064	116869			170
E6 19		443064	116879			180
E6 20		443064	116889			190
E6 21		443064	116899			200
E7 1	Hardmoor Copse AW/SINC	443293	116691	0	S of M27	6.5
E7 2		443294	116688			10
E7 3		443296	116678			20
E7 4		443299	116668			30
E7 5		443301	116659			40
E7 6		443303	116649			50
E7 7		443305	116639			60
E7 8		443308	116629			70
E7 9		443310	116619			80
E7 10		443312	116610			90
E7 11		443315	116600			100
E7 12		443317	116590			110
E7 13		443318	116580			120
E7 14		443321	116571			130
E7 15		443323	116561			140
E7 16		443326	116551			150
E7 17		443328	116542			160
E7 18		443331	116532			170
E7 19		443334	116522			180
E7 20		443336	116513			190
E7 21		443337	116503			200

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E8 1	River Itchen SSSI/SAC	445259	115719	0	S of M27	2
E8 2		445254	115713			10
E8 3		445247	115706			20
E8 4		445240	115699			30
E8 5		445233	115692			40
E8 6		445226	115684			50
E8 7		445219	115677			60
E8 8		445212	115670			70
E8 9		445205	115663			80
E8 10		445198	115656			90
E8 11		445191	115649			100
E8 12		445184	115641			110
E8 13		445177	115634			120
E8 14		445170	115627			130
E8 15		445163	115620			140
E8 16		445150	115607			148
E9 1	River Itchen SSSI/SAC	445279	115759	0	N of M27	2
E9 2		445283	115766			10
E9 3		445288	115775			20
E9 4		445293	115783			30
E9 5		445298	115792			40
E9 6		445303	115800			50
E9 7		445308	115809			60
E9 8		445313	115818			70
E9 9		445318	115826			80
E9 10		445323	115835			90
E9 11		445328	115844			100
E9 12		445333	115852			110
E9 13		445338	115861			120
E9 14		445343	115870			130
E9 15		445348	115878			140
E9 16		445354	115887			150
E9 17		445359	115896			160
E9 18		445364	115904			170
E9 19		445369	115913			180
E9 20		445374	115921			190
E9 21		445379	115930			200
E10 1	River Itchen SSSI/SAC	445146	115938	0	N of M27	80
E10 2		445153	115946			90
E10 3		445159	115953			100
E10 4		445166	115960			110

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E10 5		445173	115968			120
E10 6		445180	115975			130
E10 7		445187	115982			140
E10 8		445194	115989			150
E10 9		445200	115997			160
E10 10		445207	116004			170
E10 11		445214	116011			180
E10 12		445221	116018			190
E10 13		445228	116026			200
E11 1	River Itchen SSSI/SAC	445038	115798	0	S of M27	57
E11 2		445035	115796			60
E11 3		445029	115789			70
E11 4		445022	115781			80
E11 5		445015	115774			90
E11 6		445009	115766			100
E11 7		445002	115759			110
E11 8		444995	115751			120
E11 9		444989	115744			130
E11 10		444983	115736			140
E11 11		444976	115729			150
E11 12		444969	115721			160
E11 13		444963	115714			170
E11 14		444956	115706			180
E11 15		444949	115699			190
E11 16		444943	115691			200
E12 1	Dummers Copse AW/SINC	446371	115348	0	N of M27	19
E12 2		446371	115359			30
E12 3		446371	115369			40
E12 4		446371	115379			50
E12 5		446371	115389			60
E12 6		446371	115399			70
E12 7		446371	115409			80
E12 8		446371	115419			90
E12 9		446371	115429			100
E12 10		446371	115439			110
E12 11		446371	115449			120
E12 12		446371	115459			130
E12 13		446371	115469			140
E12 14		446371	115479			150
E12 15		446371	115489			160
E12 16		446371	115499			170

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E12 17		446371	115509			180
E12 18		446371	115519			190
E12 19		446371	115529			200
E13 1	Dummers Copse AW/SINC	446104	115324	0	S of M27	11
E13 2		446104	115315			20
E13 3		446104	115305			30
E13 4		446104	115295			40
E13 5		446104	115285			50
E13 6		446104	115275			60
E13 7		446104	115265			70
E13 8		446104	115255			80
E13 9		446104	115245			90
E13 10		446104	115235			100
E13 11		446104	115225			110
E13 12		446104	115215			120
E13 13		446104	115205			130
E13 14		446104	115195			140
E13 15		446104	115185			150
E13 16		446104	115175			160
E13 17		446104	115165			170
E13 18		446104	115155			180
E13 19		446104	115145			190
E13 20		446104	115135			200
E14 1	Moorgreen Meadows SSSI	447863	114841	0	E of M27	5
E14 2		447867	114844			10
E14 3		447876	114849			20
E14 4		447884	114854			30
E14 5		447893	114859			40
E14 6		447901	114864			50
E14 7		447910	114870			60
E14 8		447918	114875			70
E14 9		447927	114880			80
E14 10		447936	114885			90
E14 11		447944	114890			100
E14 12		447953	114896			110
E14 13		447961	114901			120
E14 14		447970	114906			130
E14 15		447978	114911			140
E14 16		447987	114917			150
E14 17		447995	114922			160
E14 18		448004	114927			170

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E14 19		448012	114932			180
E14 20		448021	114937			190
E14 21		448029	114943			200
E15 1	Monks Book Greenway SINC	444095	116240	0	W of A335 Stoneham Way	2
E15 2		444101	116235			10
E15 3		444109	116228			20
E15 4		444116	116222			30
E16 1	Monks Book Greenway SINC	444316	116538	0	W of A335 Stoneham Way	127
E16 2		444319	116537			130
E16 3		444329	116535			140
E16 4		444338	116533			150
E16 5		444348	116530			160
E16 6		444358	116528			170
E16 7		444368	116526			180
E16 8		444377	116523			190
E16 9		444387	116521			200
E17 1	Monks Book Greenway SINC	444408	116522	0	W of Wide Lane	90
E17 2		444402	116527			100
E17 3		444394	116533			110
E17 4		444386	116539			120
E17 5		444378	116545			130
E17 6		444370	116551			140
E17 7		444362	116557			150
E17 8		444354	116563			160
E17 9		444346	116569			170
E17 10		444338	116575			180
E17 11		444330	116581			190
E17 12		444322	116587			200
E18 1	Monks Book Greenway SINC	444060	116045	0	N of Wide Lane	2
E18 2		444066	116051			10
E18 3		444073	116058			20
E18 4		444074	116059			30
E18 5		444081	116066			40
E18 6		444089	116073			50
E18 7		444096	116080			60
E18 8		444102	116085			70
E18 9		444109	116092			80
E18 10		444116	116099			90
E18 11		444123	116106			100
E19 1	Monks Book Greenway SINC	444058	116027	0	S of Wide Lane	2
E19 2		444056	116019			10

Receptor Number	Receptor Location	OS Grid Reference		Receptor Height (m)	Location Relevant to Nearest Road	Distance from Nearest Road
		X	Y			
E19 3		444054	116009			20
E19 4		444052	116000			30
E19 5		444050	115990			40
E19 6		444048	115980			50
E19 7		444047	115970			60
E19 8		444043	115950			70
E19 9		444041	115941			80
E19 10		444039	115931			90
E19 11		444037	115921			100
E19 12		444035	115911			110
E19 13		444033	115904			117
E20 1	Hardmoor Plantation AW	442988	116302	0	N of Bassett Green Road	2
E20 2		442991	116309			10
E20 3		442995	116318			20
E20 4		443000	116328			30
E20 5		443004	116337			40
E20 6		443008	116346			50
E20 7		443012	116355			60
E20 8		443016	116364			70
E20 9		443020	116373			80
E20 10		443025	116382			90
E20 11		443029	116391			100
E20 12		443047	116431			140
E20 13		443051	116440			150
E20 14		443056	116450			160
E20 15		443060	116459			170
E20 16		443064	116468			180
E20 17		443068	116477			190
E20 18		443073	116485			200

Background Data Calibration

To ensure that annual mean background concentrations used in the assessment reflect real-world concentrations as accurately as possible a calibration exercise has been carried out. Monitored data measured at local background NO₂ sites have been compared against Defra predictions at the same locations to provide a calibration factor. This calculation of the calibration factor is shown in **Table 7.2.6**.

Comparison of the measures and mapped data shows that the Defra concentrations are lower than monitoring data suggests for the study area. The mapped background NO₂ data has therefore been adjusted by the calculated calibration factor for the purposes of this assessment.

No background monitoring of PM₁₀ or PM_{2.5} is carried out by EBC therefore no calibration factor has been calculated for these two pollutants.

Table 7.2.6: Calibration of Background Data

Parameter	Monitoring Site						
	SSQ	SC	PC	OX	NH	MC	HG
Measured Concentration (µg/m ³)	18.4	15.9	15.4	12.1	15.3	16.0	12.9
Mapped Concentration (µg/m ³)	16.8	14.5	13.5	13.5	11.0	11.6	11.9
Calibration Factor	1.095	1.097	1.141	0.896	1.391	1.379	1.084
Average Calibration Factor	1.11						

Appendix 7.3 – Figures

Figure 7.3.1: Windrose for Southampton Airport 2023

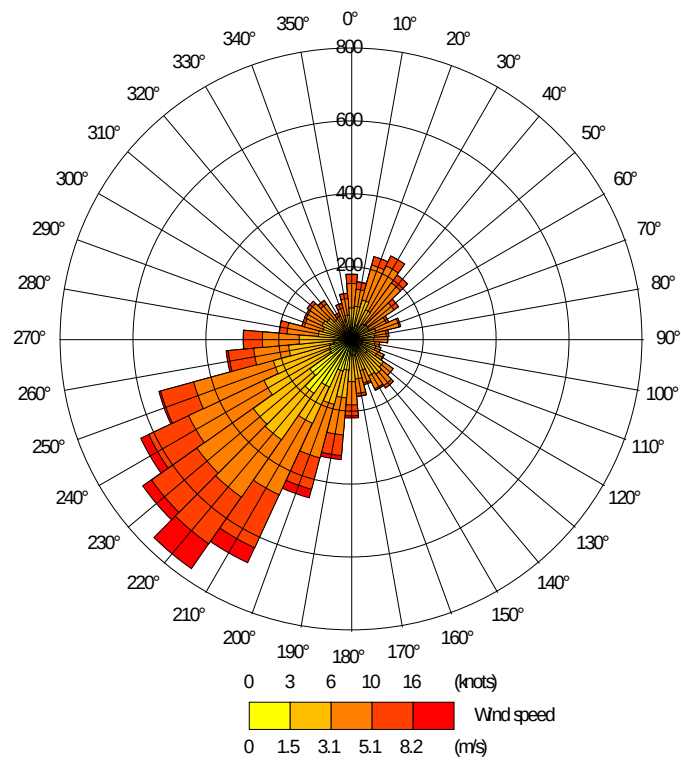


Figure 7.3.2: Human health Receptors used in ADMS Model

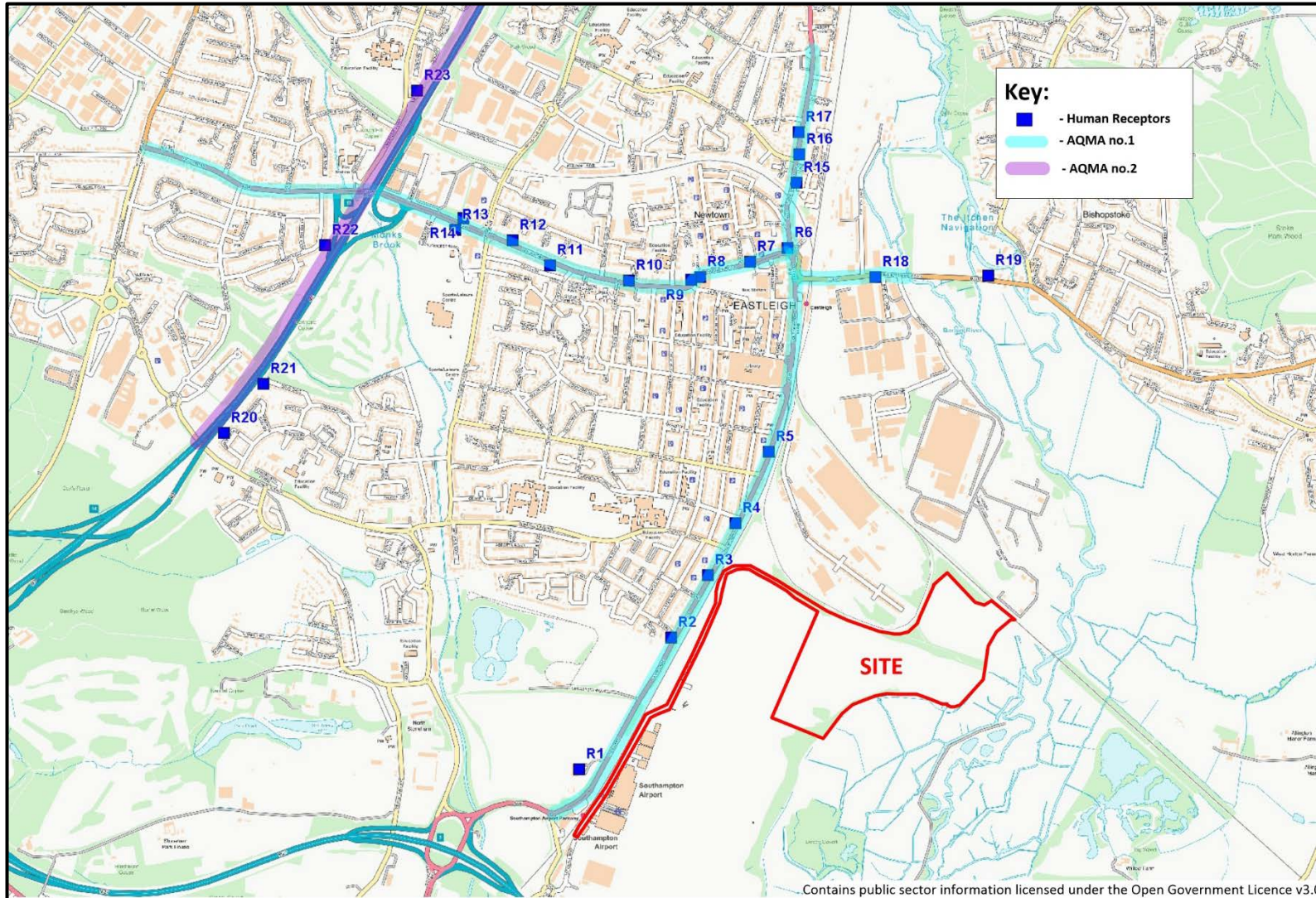


Figure 7.3.3: Ecology Receptors used in ADMS Model

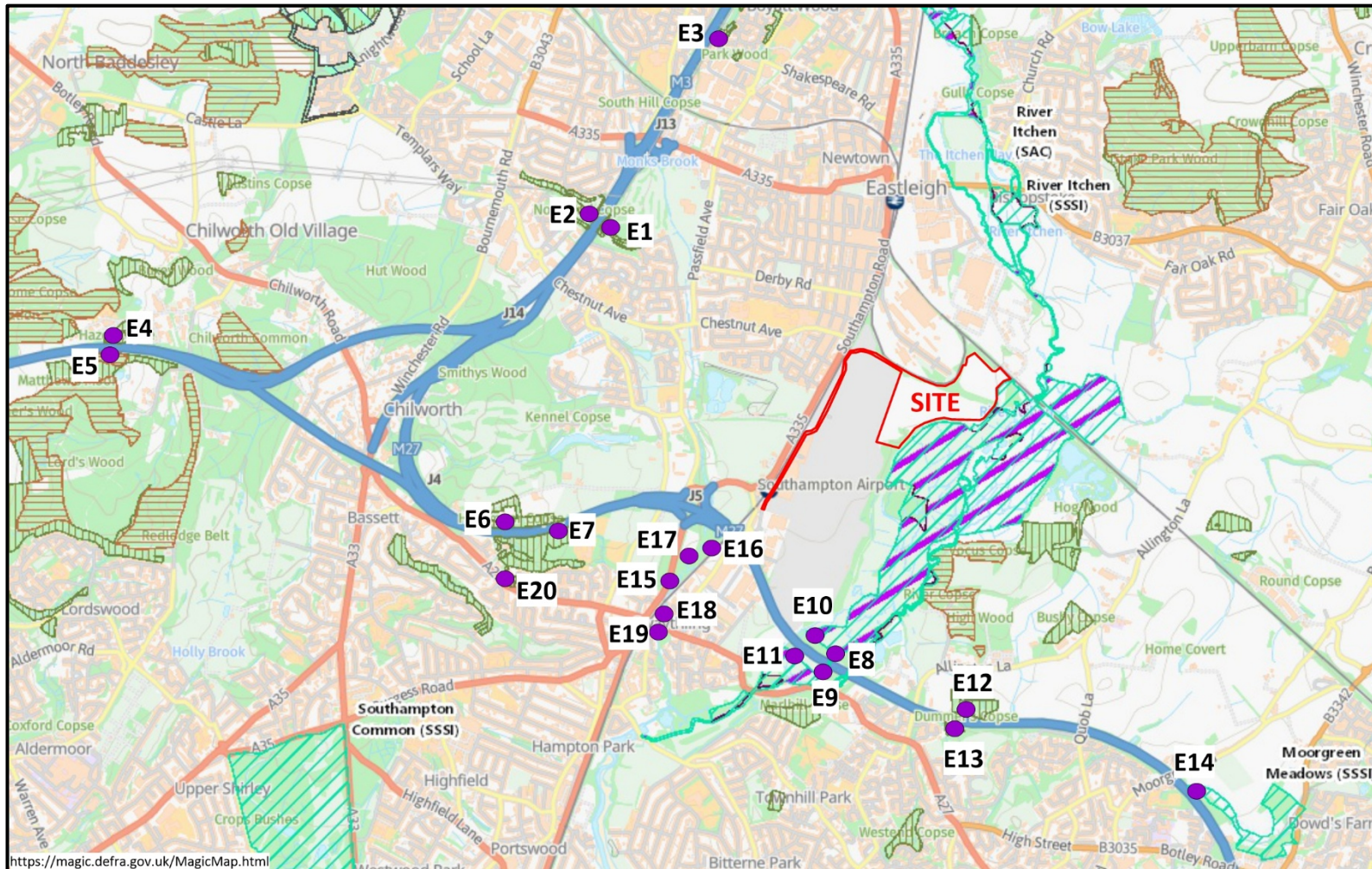
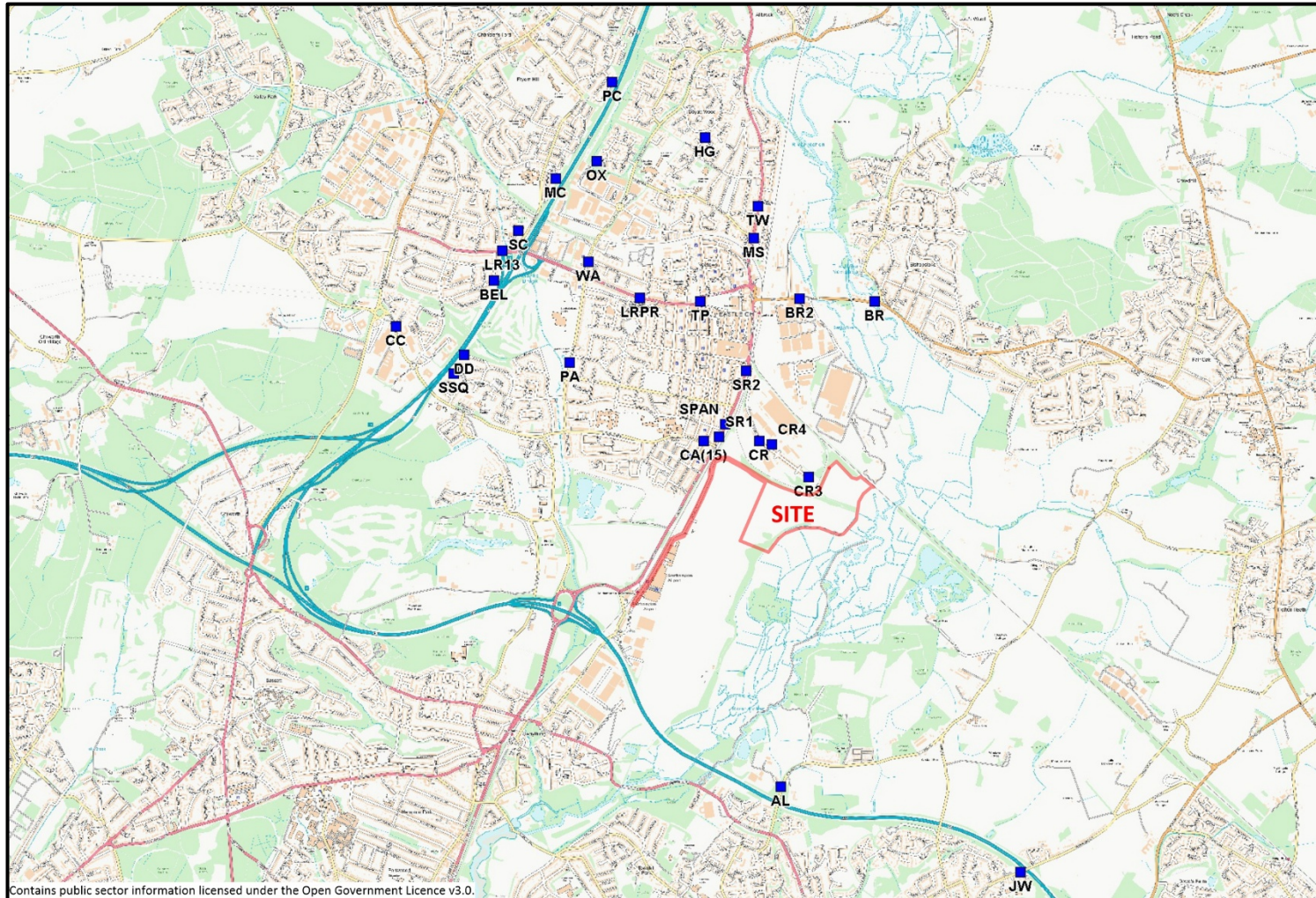


Figure 7.3.4: EBC Local Monitoring Sites



Appendix 7.4 – Assessment Results

Human Receptor Results

Table 7.4.1: Predicted Annual Mean Concentrations of NO₂ (µg/m³)

Receptor	2023 Base	2028 Do-Minimum	2028 Do-Something	Change Due to Development as % of AQO	Significance of Impact
R1	17.0	15.5	15.6	0	Negligible
R2	21.5	18.3	18.4	0	Negligible
R3	24.5	19.9	20.1	0	Negligible
R4	23.7	19.3	19.5	0	Negligible
R5	29.4	22.6	22.8	0	Negligible
R6	19.7	16.5	16.6	0	Negligible
R7	19.6	16.6	16.6	0	Negligible
R8	21.2	17.5	17.5	0	Negligible
R9	16.9	15.0	15.0	0	Negligible
R10	18.7	16.0	16.0	0	Negligible
R11	18.4	17.1	17.1	0	Negligible
R12	21.2	18.7	18.7	0	Negligible
R13	18.8	17.4	17.4	0	Negligible
R14	20.6	18.4	18.4	0	Negligible
R15	19.0	17.3	17.3	0	Negligible
R16	20.5	18.2	18.2	0	Negligible
R17	18.3	16.9	16.9	0	Negligible
R18	22.4	18.1	18.1	0	Negligible
R19	22.0	18.0	18.1	0	Negligible
R20	23.6	21.5	21.5	0	Negligible
R21	35.1	28.3	28.4	0	Negligible
R22	27.8	22.8	22.9	0	Negligible
R23	27.7	22.6	22.6	0	Negligible
R24	24.2	20.3	20.3	0	Negligible

Table 7.4.2: Predicted Annual Mean Concentrations of PM10 (µg/m³)

Receptor	2023 Base	2028 Do-Minimum	2028 Do-Something	Change Due to Development as % of AQO	Significance of Impact
R1	13.2	13.1	13.2	0	Negligible
R2	14.1	14.0	14.1	0	Negligible
R3	14.7	14.6	14.7	0	Negligible
R4	15.1	15.0	15.1	0	Negligible
R5	16.7	16.5	16.6	0	Negligible
R6	14.8	14.7	14.7	0	Negligible
R7	14.9	14.9	14.9	0	Negligible
R8	15.4	15.3	15.3	0	Negligible
R9	14.1	14.1	14.1	0	Negligible
R10	14.6	14.6	14.6	0	Negligible
R11	15.3	15.2	15.2	0	Negligible
R12	16.1	16.0	16.0	0	Negligible
R13	15.2	15.2	15.2	0	Negligible
R14	15.8	15.7	15.7	0	Negligible
R15	14.1	14.1	14.1	0	Negligible
R16	14.6	14.5	14.5	0	Negligible
R17	13.9	13.9	13.9	0	Negligible
R18	15.0	14.8	14.9	0	Negligible
R19	14.8	14.8	14.8	0	Negligible
R20	15.6	15.6	15.6	0	Negligible
R21	17.7	17.5	17.6	0	Negligible
R22	17.0	16.9	16.9	0	Negligible
R23	16.6	16.5	16.5	0	Negligible
R24	16.6	16.6	16.6	0	Negligible

Table 7.4.3: Predicted Annual Mean Concentrations of PM2.5 (µg/m³)

Receptor	2023 Base	2028 Do-Minimum	2028 Do-Something	Change Due to Development as % of AQO	Significance of Impact
R1	8.0	7.9	7.9	0	Negligible
R2	8.6	8.5	8.5	0	Negligible
R3	8.9	8.8	8.8	0	Negligible
R4	9.4	9.3	9.3	0	Negligible
R5	10.2	10.0	10.1	0	Negligible
R6	9.1	9.0	9.0	0	Negligible
R7	9.1	9.1	9.1	0	Negligible
R8	9.4	9.3	9.3	0	Negligible
R9	8.7	8.6	8.7	0	Negligible
R10	9.0	8.9	8.9	0	Negligible
R11	8.5	8.4	8.4	0	Negligible
R12	8.9	8.8	8.9	0	Negligible
R13	8.5	8.4	8.4	0	Negligible
R14	8.8	8.7	8.7	0	Negligible
R15	8.7	8.6	8.6	0	Negligible
R16	8.9	8.9	8.9	0	Negligible
R17	8.6	8.5	8.5	0	Negligible
R18	9.3	9.1	9.1	0	Negligible
R19	9.2	9.1	9.1	0	Negligible
R20	8.7	8.7	8.7	0	Negligible
R21	10.0	9.9	9.9	0	Negligible
R22	9.6	9.4	9.4	0	Negligible
R23	9.4	9.3	9.3	0	Negligible
R24	9.5	9.4	9.4	0	Negligible

Ecology Receptor Results

Items highlights Yellow indicated an exceedances of the CL/CLO and Exceedances of the 1% criteria

Items highlighted green indicate total concentrations below the CL/CLO but an exceedance of the 1% screening criteria

Table 7.4.4: Predicted Annual Mean NO_x Concentrations (µg/m³)

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 1	woodland	45.9	46.4	46.5	0.3	<1% CL not significant	2.0	>1% seek advice from Ecologist
E1 2	woodland	37.9	38.2	38.3	0.2	<1% CL not significant	1.5	>1% seek advice from Ecologist
E1 3	woodland	33.4	33.7	33.7	0.2	<1% CL not significant	1.2	>1% seek advice from Ecologist
E1 4	woodland	31.5	31.8	31.9	0.2	<1% CL not significant	1.0	>1% seek advice from Ecologist
E1 5	woodland	28.2	28.4	28.5	0.1	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 6	woodland	26.5	26.7	26.7	0.1	<1% CL not significant	0.7	<1% CL not significant
E1 7	woodland	25.3	25.5	25.5	0.1	<1% CL not significant	0.6	<1% CL not significant
E1 8	woodland	24.2	24.4	24.4	0.1	<1% CL not significant	0.6	<1% CL not significant
E1 9	woodland	23.4	23.5	23.5	0.1	<1% CL not significant	0.5	<1% CL not significant
E1 10	woodland	22.8	22.9	22.9	0.1	<1% CL not significant	0.5	<1% CL not significant
E1 11	woodland	22.1	22.2	22.3	0.1	<1% CL not significant	0.4	<1% CL not significant
E1 12	woodland	21.6	21.7	21.8	0.1	<1% CL not significant	0.4	<1% CL not significant
E1 13	woodland	21.2	21.3	21.4	0.1	<1% CL not significant	0.4	<1% CL not significant
E1 14	woodland	20.8	20.9	20.9	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 15	woodland	20.5	20.6	20.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E1 16	woodland	20.2	20.3	20.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E1 17	woodland	20.0	20.0	20.1	0.1	<1% CL not significant	0.3	<1% CL not significant
E1 18	woodland	19.7	19.8	19.8	0.0	<1% CL not significant	0.3	<1% CL not significant
E1 19	woodland	19.5	19.6	19.6	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 20	woodland	19.4	19.4	19.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 21	woodland	19.2	19.3	19.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 1	woodland	50.1	50.7	50.8	0.4	<1% CL not significant	2.3	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E2 2	woodland	38.0	38.3	38.4	0.3	<1% CL not significant	1.5	>1% seek advice from Ecologist
E2 3	woodland	32.2	32.5	32.6	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E2 4	woodland	29.0	29.2	29.2	0.2	<1% CL not significant	0.9	<1% CL not significant
E2 5	woodland	26.8	27.0	27.0	0.1	<1% CL not significant	0.7	<1% CL not significant
E2 6	woodland	25.2	25.3	25.4	0.1	<1% CL not significant	0.6	<1% CL not significant
E2 7	woodland	24.0	24.1	24.2	0.1	<1% CL not significant	0.5	<1% CL not significant
E2 8	woodland	23.1	23.2	23.3	0.1	<1% CL not significant	0.5	<1% CL not significant
E2 9	woodland	22.3	22.4	22.4	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E2 10	woodland	21.8	21.9	21.9	0.1	<1% CL not significant	0.4	<1% CL not significant
E2 11	woodland	21.2	21.3	21.4	0.1	<1% CL not significant	0.4	<1% CL not significant
E2 12	woodland	20.8	20.9	20.9	0.1	<1% CL not significant	0.3	<1% CL not significant
E2 13	woodland	20.5	20.5	20.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E2 14	woodland	20.1	20.2	20.2	0.1	<1% CL not significant	0.3	<1% CL not significant
E2 15	woodland	19.9	19.9	19.9	0.0	<1% CL not significant	0.3	<1% CL not significant
E2 16	woodland	19.6	19.7	19.7	0.0	<1% CL not significant	0.3	<1% CL not significant
E2 17	woodland	19.4	19.5	19.5	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 18	woodland	19.2	19.3	19.3	0.0	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E2 19	woodland	19.1	19.1	19.1	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 20	woodland	18.9	19.0	19.0	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 21	woodland	18.8	18.8	18.8	0.0	<1% CL not significant	0.2	<1% CL not significant
E3 1	woodland	33.1	33.5	33.5	0.2	<1% CL not significant	1.3	>1% seek advice from Ecologist
E3 2	woodland	29.9	30.1	30.2	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E3 3	woodland	27.7	27.9	28.0	0.2	<1% CL not significant	0.9	<1% CL not significant
E3 4	woodland	26.0	26.2	26.3	0.1	<1% CL not significant	0.8	<1% CL not significant
E3 5	woodland	24.7	24.9	24.9	0.1	<1% CL not significant	0.7	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E3 6	woodland	23.7	23.8	23.9	0.1	<1% CL not significant	0.7	<1% CL not significant
E4 1	woodland	27.8	28.0	28.1	0.2	<1% CL not significant	1.0	<1% CL not significant
E4 2	woodland	24.9	25.1	25.1	0.1	<1% CL not significant	0.8	<1% CL not significant
E4 3	woodland	22.3	22.4	22.5	0.1	<1% CL not significant	0.7	<1% CL not significant
E4 4	woodland	20.6	20.8	20.8	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 5	woodland	19.5	19.6	19.6	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 6	woodland	18.6	18.7	18.8	0.1	<1% CL not significant	0.4	<1% CL not significant
E4 7	woodland	18.0	18.1	18.1	0.1	<1% CL not significant	0.4	<1% CL not significant
E4 8	woodland	17.5	17.6	17.6	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E4 9	woodland	17.1	17.1	17.1	0.1	<1% CL not significant	0.3	<1% CL not significant
E4 10	woodland	16.7	16.8	16.8	0.0	<1% CL not significant	0.3	<1% CL not significant
E4 11	woodland	16.4	16.5	16.5	0.0	<1% CL not significant	0.3	<1% CL not significant
E4 12	woodland	16.2	16.2	16.2	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 13	woodland	15.9	16.0	16.0	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 14	woodland	15.7	15.8	15.8	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 15	woodland	15.6	15.6	15.6	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 16	woodland	15.4	15.5	15.5	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 17	woodland	15.3	15.3	15.3	0.0	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E4 18	woodland	15.2	15.2	15.2	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 19	woodland	15.0	15.1	15.1	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 20	woodland	14.9	15.0	15.0	0.0	<1% CL not significant	0.2	<1% CL not significant
E5 1	woodland	43.8	44.4	44.5	0.4	<1% CL not significant	2.2	>1% seek advice from Ecologist
E5 2	woodland	40.8	41.3	41.4	0.3	<1% CL not significant	2.0	>1% seek advice from Ecologist
E5 3	woodland	33.9	34.3	34.4	0.3	<1% CL not significant	1.5	>1% seek advice from Ecologist
E5 4	woodland	29.8	30.1	30.1	0.2	<1% CL not significant	1.2	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E5 5	woodland	27.0	27.2	27.3	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E5 6	woodland	24.9	25.2	25.2	0.2	<1% CL not significant	0.9	<1% CL not significant
E5 7	woodland	23.4	23.6	23.6	0.1	<1% CL not significant	0.8	<1% CL not significant
E5 8	woodland	22.2	22.3	22.4	0.1	<1% CL not significant	0.7	<1% CL not significant
E5 9	woodland	21.2	21.3	21.4	0.1	<1% CL not significant	0.7	<1% CL not significant
E5 10	woodland	20.3	20.5	20.5	0.1	<1% CL not significant	0.6	<1% CL not significant
E5 11	woodland	19.7	19.8	19.8	0.1	<1% CL not significant	0.6	<1% CL not significant
E5 12	woodland	19.1	19.2	19.2	0.1	<1% CL not significant	0.5	<1% CL not significant
E5 13	woodland	18.6	18.7	18.7	0.1	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E5 14	woodland	18.1	18.2	18.3	0.1	<1% CL not significant	0.5	<1% CL not significant
E5 15	woodland	17.7	17.8	17.9	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 16	woodland	17.4	17.5	17.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 17	woodland	17.1	17.2	17.2	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 18	woodland	16.5	16.6	16.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 19	woodland	16.3	16.4	16.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E5 20	woodland	16.1	16.2	16.2	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 1	woodland	45.4	45.9	46.1	0.7	<1% CL not significant	2.4	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E6 2	woodland	42.5	42.9	43.1	0.7	<1% CL not significant	2.1	>1% seek advice from Ecologist
E6 3	woodland	36.1	36.4	36.6	0.5	<1% CL not significant	1.6	>1% seek advice from Ecologist
E6 4	woodland	32.2	32.5	32.6	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E6 5	woodland	29.7	29.9	30.0	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E6 6	woodland	27.8	28.0	28.1	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E6 7	woodland	26.4	26.6	26.7	0.3	<1% CL not significant	0.9	>1% seek advice from Ecologist
E6 8	woodland	25.3	25.5	25.5	0.2	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 9	woodland	24.4	24.6	24.6	0.2	<1% CL not significant	0.7	<1% CL not significant
E6 10	woodland	23.7	23.8	23.9	0.2	<1% CL not significant	0.7	<1% CL not significant
E6 11	woodland	23.1	23.2	23.2	0.2	<1% CL not significant	0.6	<1% CL not significant
E6 12	woodland	22.5	22.7	22.7	0.2	<1% CL not significant	0.6	<1% CL not significant
E6 13	woodland	22.1	22.2	22.2	0.2	<1% CL not significant	0.5	<1% CL not significant
E6 14	woodland	21.7	21.8	21.8	0.2	<1% CL not significant	0.5	<1% CL not significant
E6 15	woodland	21.3	21.4	21.5	0.1	<1% CL not significant	0.5	<1% CL not significant
E6 16	woodland	21.0	21.1	21.2	0.1	<1% CL not significant	0.5	<1% CL not significant
E6 17	woodland	20.8	20.8	20.9	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 18	woodland	20.5	20.6	20.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E6 19	woodland	20.3	20.4	20.4	0.1	<1% CL not significant	0.4	<1% CL not significant
E6 20	woodland	20.1	20.2	20.2	0.1	<1% CL not significant	0.4	<1% CL not significant
E6 21	woodland	19.9	20.0	20.0	0.1	<1% CL not significant	0.4	<1% CL not significant
E7 1	woodland	34.2	34.5	34.6	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E7 2	woodland	31.7	32.0	32.1	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E7 3	woodland	26.9	27.1	27.2	0.3	<1% CL not significant	0.9	<1% CL not significant
E7 4	woodland	24.3	24.4	24.5	0.2	<1% CL not significant	0.7	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 5	woodland	22.8	22.9	23.0	0.2	<1% CL not significant	0.6	<1% CL not significant
E7 6	woodland	21.6	21.7	21.8	0.2	<1% CL not significant	0.5	<1% CL not significant
E7 7	woodland	20.8	20.9	20.9	0.1	<1% CL not significant	0.4	<1% CL not significant
E7 8	woodland	20.1	20.2	20.2	0.1	<1% CL not significant	0.4	<1% CL not significant
E7 9	woodland	19.6	19.7	19.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E7 10	woodland	19.3	19.3	19.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E7 11	woodland	18.9	19.0	19.0	0.1	<1% CL not significant	0.3	<1% CL not significant
E7 12	woodland	18.6	18.7	18.7	0.1	<1% CL not significant	0.3	<1% CL not significant
E7 13	woodland	18.4	18.4	18.5	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 14	woodland	18.2	18.2	18.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 15	woodland	18.0	18.1	18.1	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 16	woodland	17.9	17.9	17.9	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 17	woodland	17.7	17.8	17.8	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 18	woodland	17.6	17.6	17.7	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 19	woodland	17.5	17.5	17.6	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 20	woodland	17.4	17.4	17.5	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 21	woodland	17.3	17.4	17.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E8 1	grassland	29.0	29.3	29.4	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E8 2	grassland	25.7	25.8	25.9	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E8 3	grassland	23.4	23.5	23.6	0.3	<1% CL not significant	0.8	<1% CL not significant
E8 4	grassland	22.0	22.1	22.2	0.2	<1% CL not significant	0.7	<1% CL not significant
E8 5	grassland	21.1	21.2	21.3	0.2	<1% CL not significant	0.6	<1% CL not significant
E8 6	grassland	20.4	20.5	20.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 7	grassland	19.9	20.0	20.1	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 8	grassland	19.6	19.7	19.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 9	grassland	19.3	19.4	19.5	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 10	grassland	19.1	19.2	19.3	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E8 11	grassland	19.0	19.1	19.2	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 12	grassland	18.9	19.0	19.1	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 13	grassland	18.9	19.0	19.1	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 14	grassland	19.0	19.1	19.1	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 15	grassland	19.1	19.2	19.3	0.3	<1% CL not significant	0.6	<1% CL not significant
E8 16	grassland	19.7	19.8	19.9	0.3	<1% CL not significant	0.7	<1% CL not significant
E9 1	grassland	57.5	58.2	58.6	1.2	<1% CL not significant	3.6	>1% seek advice from Ecologist
E9 2	grassland	45.2	45.7	46.0	0.9	<1% CL not significant	2.5	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E9 3	grassland	37.0	37.4	37.6	0.6	<1% CL not significant	1.9	>1% seek advice from Ecologist
E9 4	grassland	32.9	33.2	33.3	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E9 5	grassland	29.9	30.1	30.3	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E9 6	grassland	28.0	28.2	28.3	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E9 7	grassland	26.4	26.6	26.7	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E9 8	grassland	25.2	25.4	25.5	0.3	<1% CL not significant	0.9	<1% CL not significant
E9 9	grassland	24.3	24.5	24.6	0.3	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E9 10	grassland	23.5	23.7	23.8	0.3	<1% CL not significant	0.7	<1% CL not significant
E9 11	grassland	22.9	23.0	23.1	0.2	<1% CL not significant	0.7	<1% CL not significant
E9 12	grassland	22.4	22.5	22.5	0.2	<1% CL not significant	0.6	<1% CL not significant
E9 13	grassland	21.9	22.0	22.1	0.2	<1% CL not significant	0.6	<1% CL not significant
E9 14	grassland	21.5	21.6	21.6	0.2	<1% CL not significant	0.6	<1% CL not significant
E9 15	grassland	21.1	21.2	21.3	0.2	<1% CL not significant	0.5	<1% CL not significant
E9 16	grassland	20.8	20.9	20.9	0.2	<1% CL not significant	0.5	<1% CL not significant
E9 17	grassland	20.5	20.6	20.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E9 18	grassland	20.3	20.3	20.4	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E9 19	grassland	20.0	20.1	20.1	0.2	<1% CL not significant	0.4	<1% CL not significant
E9 20	grassland	19.8	19.9	19.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E9 21	grassland	19.6	19.7	19.8	0.1	<1% CL not significant	0.4	<1% CL not significant
E10 1	grassland	24.3	24.5	24.6	0.3	<1% CL not significant	0.8	<1% CL not significant
E10 2	grassland	23.5	23.7	23.7	0.3	<1% CL not significant	0.7	<1% CL not significant
E10 3	grassland	22.9	23.1	23.1	0.2	<1% CL not significant	0.7	<1% CL not significant
E10 4	grassland	22.4	22.5	22.6	0.2	<1% CL not significant	0.6	<1% CL not significant
E10 5	grassland	21.9	22.0	22.1	0.2	<1% CL not significant	0.6	<1% CL not significant
E10 6	grassland	21.5	21.6	21.7	0.2	<1% CL not significant	0.6	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E10 7	grassland	21.2	21.3	21.3	0.2	<1% CL not significant	0.5	<1% CL not significant
E10 8	grassland	20.9	21.0	21.0	0.2	<1% CL not significant	0.5	<1% CL not significant
E10 9	grassland	20.6	20.7	20.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E10 10	grassland	20.3	20.4	20.5	0.2	<1% CL not significant	0.5	<1% CL not significant
E10 11	grassland	20.1	20.2	20.2	0.2	<1% CL not significant	0.4	<1% CL not significant
E10 12	grassland	19.9	20.0	20.0	0.2	<1% CL not significant	0.4	<1% CL not significant
E10 13	grassland	19.7	19.8	19.8	0.1	<1% CL not significant	0.4	<1% CL not significant
E11 1	grassland	19.5	19.6	19.6	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 2	grassland	19.4	19.4	19.5	0.2	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E11 3	grassland	19.0	19.1	19.1	0.1	<1% CL not significant	0.4	<1% CL not significant
E11 4	grassland	18.6	18.7	18.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E11 5	grassland	18.4	18.4	18.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 6	grassland	18.2	18.2	18.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 7	grassland	18.0	18.0	18.1	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 8	grassland	17.8	17.9	17.9	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 9	grassland	17.7	17.8	17.8	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 10	grassland	17.6	17.6	17.7	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 11	grassland	17.5	17.5	17.6	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E11 12	grassland	17.4	17.4	17.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 13	grassland	17.3	17.4	17.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 14	grassland	17.3	17.3	17.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 15	grassland	17.2	17.3	17.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 16	grassland	17.2	17.2	17.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E12 1	woodland	38.3	38.7	38.9	0.7	<1% CL not significant	2.0	>1% seek advice from Ecologist
E12 2	woodland	32.5	32.8	32.9	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E12 3	woodland	29.4	29.6	29.7	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 4	woodland	27.2	27.4	27.5	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E12 5	woodland	25.6	25.8	25.9	0.3	<1% CL not significant	0.9	<1% CL not significant
E12 6	woodland	24.4	24.6	24.7	0.3	<1% CL not significant	0.8	<1% CL not significant
E12 7	woodland	23.5	23.6	23.7	0.3	<1% CL not significant	0.7	<1% CL not significant
E12 8	woodland	22.7	22.9	22.9	0.2	<1% CL not significant	0.7	<1% CL not significant
E12 9	woodland	22.1	22.2	22.3	0.2	<1% CL not significant	0.6	<1% CL not significant
E12 10	woodland	21.5	21.7	21.7	0.2	<1% CL not significant	0.6	<1% CL not significant
E12 11	woodland	21.1	21.2	21.3	0.2	<1% CL not significant	0.5	<1% CL not significant
E12 12	woodland	20.7	20.8	20.8	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 13	woodland	20.3	20.4	20.5	0.2	<1% CL not significant	0.5	<1% CL not significant
E12 14	woodland	20.0	20.1	20.2	0.2	<1% CL not significant	0.5	<1% CL not significant
E12 15	woodland	19.8	19.8	19.9	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 16	woodland	19.5	19.6	19.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 17	woodland	19.3	19.4	19.4	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 18	woodland	19.1	19.2	19.2	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 19	woodland	18.9	19.0	19.0	0.1	<1% CL not significant	0.4	<1% CL not significant
E13 1	woodland	26.5	26.7	26.8	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E13 2	woodland	23.5	23.7	23.7	0.3	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 3	woodland	21.6	21.8	21.8	0.2	<1% CL not significant	0.6	<1% CL not significant
E13 4	woodland	20.4	20.5	20.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E13 5	woodland	19.6	19.7	19.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E13 6	woodland	19.0	19.1	19.1	0.1	<1% CL not significant	0.4	<1% CL not significant
E13 7	woodland	18.5	18.6	18.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 8	woodland	18.1	18.2	18.2	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 9	woodland	17.8	17.9	17.9	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 10	woodland	17.6	17.6	17.7	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 11	woodland	17.4	17.4	17.4	0.1	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 12	woodland	17.2	17.2	17.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 13	woodland	17.0	17.0	17.1	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 14	woodland	16.9	16.9	16.9	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 15	woodland	16.7	16.8	16.8	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 16	woodland	16.6	16.7	16.7	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 17	woodland	16.5	16.6	16.6	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 18	woodland	16.4	16.5	16.5	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 19	woodland	16.3	16.4	16.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 20	woodland	16.3	16.3	16.3	0.1	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E14 1	grassland	45.9	46.4	46.6	0.9	<1% CL not significant	2.6	>1% seek advice from Ecologist
E14 2	grassland	40.7	41.1	41.3	0.7	<1% CL not significant	2.1	>1% seek advice from Ecologist
E14 3	grassland	34.4	34.7	34.9	0.5	<1% CL not significant	1.6	>1% seek advice from Ecologist
E14 4	grassland	30.9	31.2	31.3	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E14 5	grassland	28.4	28.6	28.7	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E14 6	grassland	26.6	26.8	26.9	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E14 7	grassland	25.2	25.3	25.4	0.3	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E14 8	grassland	24.1	24.3	24.4	0.3	<1% CL not significant	0.8	<1% CL not significant
E14 9	grassland	23.3	23.4	23.5	0.2	<1% CL not significant	0.7	<1% CL not significant
E14 10	grassland	22.5	22.7	22.7	0.2	<1% CL not significant	0.6	<1% CL not significant
E14 11	grassland	22.0	22.1	22.1	0.2	<1% CL not significant	0.6	<1% CL not significant
E14 12	grassland	21.4	21.5	21.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E14 13	grassland	21.0	21.1	21.1	0.2	<1% CL not significant	0.5	<1% CL not significant
E14 14	grassland	20.6	20.7	20.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E14 15	grassland	20.3	20.4	20.4	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 16	grassland	19.9	20.0	20.1	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E14 17	grassland	19.7	19.8	19.8	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 18	grassland	19.4	19.5	19.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 19	grassland	19.2	19.3	19.3	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 20	grassland	19.0	19.1	19.1	0.1	<1% CL not significant	0.3	<1% CL not significant
E14 21	grassland	18.8	18.9	18.9	0.1	<1% CL not significant	0.3	<1% CL not significant
E15 1	woodland	31.3	31.6	31.7	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist
E15 2	woodland	27.8	28.0	28.1	0.3	<1% CL not significant	0.9	<1% CL not significant
E15 3	woodland	25.6	25.7	25.8	0.3	<1% CL not significant	0.7	<1% CL not significant
E15 4	woodland	24.5	24.6	24.7	0.2	<1% CL not significant	0.6	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E16 1	woodland	22.8	22.9	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 2	woodland	22.8	22.9	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 3	woodland	22.7	22.8	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 4	woodland	22.7	22.8	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 5	woodland	22.7	22.7	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 6	woodland	22.6	22.7	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 7	woodland	22.6	22.7	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 8	woodland	22.6	22.7	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant
E16 9	woodland	22.7	22.7	22.8	0.2	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E17 1	woodland	22.8	22.9	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 2	woodland	22.8	22.8	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 3	woodland	22.7	22.8	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 4	woodland	22.7	22.8	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 5	woodland	22.7	22.8	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 6	woodland	22.8	22.8	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 7	woodland	22.8	22.9	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 8	woodland	22.8	22.9	22.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 9	woodland	22.9	23.0	23.0	0.2	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E17 10	woodland	22.9	23.0	23.1	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 11	woodland	23.0	23.1	23.1	0.2	<1% CL not significant	0.4	<1% CL not significant
E17 12	woodland	23.1	23.2	23.2	0.2	<1% CL not significant	0.4	<1% CL not significant
E18 1	woodland	27.8	28.0	28.2	0.7	<1% CL not significant	1.5	>1% seek advice from Ecologist
E18 2	woodland	25.8	26.0	26.2	0.6	<1% CL not significant	1.1	>1% seek advice from Ecologist
E18 3	woodland	24.7	24.8	25.0	0.4	<1% CL not significant	0.9	<1% CL not significant
E18 4	woodland	24.6	24.7	24.8	0.4	<1% CL not significant	0.9	<1% CL not significant
E18 5	woodland	24.0	24.1	24.2	0.4	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E18 6	woodland	23.6	23.7	23.8	0.3	<1% CL not significant	0.7	<1% CL not significant
E18 7	woodland	23.3	23.4	23.5	0.3	<1% CL not significant	0.6	<1% CL not significant
E18 8	woodland	23.2	23.3	23.3	0.3	<1% CL not significant	0.6	<1% CL not significant
E18 9	woodland	23.0	23.1	23.2	0.3	<1% CL not significant	0.6	<1% CL not significant
E18 10	woodland	22.9	23.0	23.1	0.3	<1% CL not significant	0.6	<1% CL not significant
E18 11	woodland	22.8	22.9	23.0	0.3	<1% CL not significant	0.6	<1% CL not significant
E19 1	woodland	24.8	25.0	25.1	0.5	<1% CL not significant	0.9	<1% CL not significant
E19 2	woodland	23.3	23.4	23.5	0.3	<1% CL not significant	0.6	<1% CL not significant
E19 3	woodland	22.5	22.6	22.6	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E19 4	woodland	22.1	22.1	22.2	0.2	<1% CL not significant	0.4	<1% CL not significant
E19 5	woodland	21.8	21.8	21.9	0.2	<1% CL not significant	0.4	<1% CL not significant
E19 6	woodland	21.6	21.6	21.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E19 7	woodland	21.4	21.4	21.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E19 8	woodland	21.1	21.1	21.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 9	woodland	21.0	21.0	21.1	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 10	woodland	20.9	20.9	21.0	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 11	woodland	20.8	20.8	20.9	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 12	woodland	20.7	20.8	20.8	0.1	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E19 13	woodland	20.7	20.7	20.7	0.1	<1% CL not significant	0.2	<1% CL not significant
E20 1	woodland	18.6	18.6	18.6	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 2	woodland	17.9	18.0	18.0	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 3	woodland	17.5	17.5	17.5	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 4	woodland	17.3	17.3	17.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 5	woodland	17.2	17.2	17.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 6	woodland	17.1	17.1	17.1	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 7	woodland	17.0	17.1	17.1	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 8	woodland	17.0	17.0	17.0	0.0	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E20 9	woodland	17.0	17.0	17.0	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 10	woodland	17.0	17.0	17.0	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 11	woodland	17.0	17.0	17.0	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 12	woodland	17.1	17.2	17.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 13	woodland	17.2	17.2	17.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 14	woodland	17.2	17.2	17.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 15	woodland	17.3	17.3	17.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 16	woodland	17.3	17.4	17.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 17	woodland	17.4	17.4	17.5	0.0	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E20 18	woodland	17.5	17.5	17.5	0.1	<1% CL not significant	0.2	<1% CL not significant

Table 7.4.5: Predicted Annual Mean NH3 Concentrations (µg/m³)

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E1 1	woodland	3.3	3.3	3.4	0.3	<1% CL not significant	1.5	>1% seek advice from Ecologist
E1 2	woodland	2.7	2.7	2.7	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E1 3	woodland	2.4	2.4	2.4	0.1	<1% CL not significant	0.8	<1% CL not significant
E1 4	woodland	2.2	2.3	2.3	0.1	<1% CL not significant	0.8	<1% CL not significant
E1 5	woodland	2.0	2.0	2.0	0.1	<1% CL not significant	0.6	<1% CL not significant
E1 6	woodland	1.9	1.9	1.9	0.1	<1% CL not significant	0.5	<1% CL not significant
E1 7	woodland	1.8	1.8	1.8	0.1	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 8	woodland	1.7	1.7	1.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E1 9	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E1 10	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E1 11	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E1 12	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E1 13	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant
E1 14	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 15	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 16	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 17	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 18	woodland	1.3	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 19	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 20	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E1 21	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 1	woodland	3.6	3.6	3.6	0.3	<1% CL not significant	1.7	>1% seek advice from Ecologist
E2 2	woodland	2.7	2.7	2.7	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E2 3	woodland	2.3	2.3	2.3	0.1	<1% CL not significant	0.8	<1% CL not significant
E2 4	woodland	2.0	2.0	2.0	0.1	<1% CL not significant	0.6	<1% CL not significant
E2 5	woodland	1.9	1.9	1.9	0.1	<1% CL not significant	0.5	<1% CL not significant
E2 6	woodland	1.7	1.8	1.8	0.1	<1% CL not significant	0.4	<1% CL not significant
E2 7	woodland	1.7	1.7	1.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E2 8	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E2 9	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E2 10	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E2 11	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant
E2 12	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 13	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 14	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 15	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 16	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 17	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E2 18	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E2 19	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E2 20	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E2 21	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E3 1	grassland	2.5	2.5	2.5	0.2	<1% CL not significant	1.0	<1% CL not significant
E3 2	grassland	2.3	2.3	2.3	0.1	<1% CL not significant	0.8	<1% CL not significant
E3 3	grassland	2.1	2.1	2.1	0.1	<1% CL not significant	0.7	<1% CL not significant
E3 4	grassland	2.0	2.0	2.0	0.1	<1% CL not significant	0.6	<1% CL not significant
E3 5	grassland	1.9	1.9	1.9	0.1	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E3 6	grassland	1.8	1.8	1.8	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 1	woodland	2.2	2.2	2.2	0.1	<1% CL not significant	0.7	<1% CL not significant
E4 2	woodland	1.9	2.0	2.0	0.1	<1% CL not significant	0.6	<1% CL not significant
E4 3	woodland	1.8	1.8	1.8	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 4	woodland	1.7	1.7	1.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E4 5	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E4 6	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant
E4 7	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E4 8	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 9	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 10	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 11	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 12	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 13	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E4 14	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E4 15	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E4 16	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E4 17	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E4 18	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E4 19	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E4 20	woodland	1.2	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E5 1	woodland	3.5	3.5	3.5	0.3	<1% CL not significant	1.6	>1% seek advice from Ecologist
E5 2	woodland	3.2	3.3	3.3	0.2	<1% CL not significant	1.4	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E5 3	woodland	2.7	2.8	2.8	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E5 4	woodland	2.4	2.5	2.5	0.2	<1% CL not significant	0.9	<1% CL not significant
E5 5	woodland	2.2	2.2	2.3	0.1	<1% CL not significant	0.8	<1% CL not significant
E5 6	woodland	2.1	2.1	2.1	0.1	<1% CL not significant	0.7	<1% CL not significant
E5 7	woodland	2.0	2.0	2.0	0.1	<1% CL not significant	0.6	<1% CL not significant
E5 8	woodland	1.9	1.9	1.9	0.1	<1% CL not significant	0.5	<1% CL not significant
E5 9	woodland	1.8	1.8	1.8	0.1	<1% CL not significant	0.5	<1% CL not significant
E5 10	woodland	1.7	1.8	1.8	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E5 11	woodland	1.7	1.7	1.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 12	woodland	1.7	1.7	1.7	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 13	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 14	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E5 15	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.3	<1% CL not significant
E5 16	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E5 17	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant
E5 18	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E5 19	woodland	1.5	1.5	1.5	0.0	<1% CL not significant	0.3	<1% CL not significant
E5 20	woodland	1.4	1.4	1.4	0.0	<1% CL not significant	0.2	<1% CL not significant
E6 1	woodland	3.2	3.2	3.2	0.5	<1% CL not significant	1.7	>1% seek advice from Ecologist
E6 2	woodland	3.0	3.0	3.0	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E6 3	woodland	2.5	2.6	2.6	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E6 4	woodland	2.3	2.3	2.3	0.3	<1% CL not significant	0.9	<1% CL not significant
E6 5	woodland	2.1	2.1	2.1	0.2	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 6	woodland	2.0	2.0	2.0	0.2	<1% CL not significant	0.7	<1% CL not significant
E6 7	woodland	1.9	1.9	1.9	0.2	<1% CL not significant	0.6	<1% CL not significant
E6 8	woodland	1.8	1.8	1.8	0.2	<1% CL not significant	0.6	<1% CL not significant
E6 9	woodland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E6 10	woodland	1.7	1.7	1.7	0.1	<1% CL not significant	0.5	<1% CL not significant
E6 11	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E6 12	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E6 13	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 14	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E6 15	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 16	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 17	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 18	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 19	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 20	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E6 21	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 1	woodland	2.4	2.4	2.4	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E7 2	woodland	2.2	2.2	2.2	0.3	<1% CL not significant	0.9	<1% CL not significant
E7 3	woodland	1.9	1.9	1.9	0.2	<1% CL not significant	0.6	<1% CL not significant
E7 4	woodland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E7 5	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E7 6	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E7 7	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E7 8	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 9	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 10	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 11	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 12	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 13	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E7 14	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E7 15	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E7 16	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 17	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E7 18	woodland	1.2	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E7 19	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E7 20	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E7 21	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E8 1	grassland	2.1	2.1	2.1	0.3	<1% CL not significant	0.9	<1% CL not significant
E8 2	grassland	1.8	1.8	1.8	0.2	<1% CL not significant	0.7	<1% CL not significant
E8 3	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E8 4	grassland	1.6	1.6	1.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E8 5	grassland	1.5	1.5	1.5	0.2	<1% CL not significant	0.4	<1% CL not significant
E8 6	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E8 7	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.4	<1% CL not significant
E8 8	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E8 9	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E8 10	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E8 11	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E8 12	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E8 13	grassland	1.4	1.4	1.4	0.2	<1% CL not significant	0.4	<1% CL not significant
E8 14	grassland	1.4	1.4	1.4	0.2	<1% CL not significant	0.4	<1% CL not significant
E8 15	grassland	1.4	1.4	1.4	0.2	<1% CL not significant	0.4	<1% CL not significant
E8 16	grassland	1.4	1.4	1.4	0.2	<1% CL not significant	0.5	<1% CL not significant
E9 1	grassland	4.1	4.1	4.1	0.9	<1% CL not significant	2.5	>1% seek advice from Ecologist
E9 2	grassland	3.2	3.2	3.2	0.6	<1% CL not significant	1.8	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E9 3	grassland	2.6	2.6	2.7	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E9 4	grassland	2.3	2.3	2.4	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E9 5	grassland	2.1	2.1	2.1	0.3	<1% CL not significant	0.9	<1% CL not significant
E9 6	grassland	2.0	2.0	2.0	0.3	<1% CL not significant	0.8	<1% CL not significant
E9 7	grassland	1.9	1.9	1.9	0.2	<1% CL not significant	0.7	<1% CL not significant
E9 8	grassland	1.8	1.8	1.8	0.2	<1% CL not significant	0.6	<1% CL not significant
E9 9	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.6	<1% CL not significant
E9 10	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E9 11	grassland	1.6	1.6	1.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E9 12	grassland	1.6	1.6	1.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E9 13	grassland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E9 14	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E9 15	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E9 16	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E9 17	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E9 18	grassland	1.4	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E9 19	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E9 20	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E9 21	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E10 1	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.6	<1% CL not significant
E10 2	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E10 3	grassland	1.6	1.6	1.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E10 4	grassland	1.6	1.6	1.6	0.2	<1% CL not significant	0.4	<1% CL not significant
E10 5	grassland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E10 6	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E10 7	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E10 8	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E10 9	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E10 10	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E10 11	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E10 12	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E10 13	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E11 1	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 2	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 3	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E11 4	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 5	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 6	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 7	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 8	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E11 9	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 10	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 11	grassland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 12	grassland	1.2	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 13	grassland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 14	grassland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 15	grassland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E11 16	grassland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 1	woodland	2.7	2.8	2.8	0.5	<1% CL not significant	1.4	>1% seek advice from Ecologist
E12 2	woodland	2.3	2.3	2.4	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E12 3	woodland	2.1	2.1	2.1	0.3	<1% CL not significant	0.9	<1% CL not significant
E12 4	woodland	2.0	2.0	2.0	0.2	<1% CL not significant	0.7	<1% CL not significant
E12 5	woodland	1.8	1.9	1.9	0.2	<1% CL not significant	0.6	<1% CL not significant
E12 6	woodland	1.8	1.8	1.8	0.2	<1% CL not significant	0.6	<1% CL not significant
E12 7	woodland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E12 8	woodland	1.6	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 9	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 10	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 11	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 12	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E12 13	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E12 14	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E12 15	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E12 16	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 17	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E12 18	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E12 19	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 1	woodland	1.9	1.9	1.9	0.2	<1% CL not significant	0.7	<1% CL not significant
E13 2	woodland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E13 3	woodland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E13 4	woodland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 5	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 6	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E13 7	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 8	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 9	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 10	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 11	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 12	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E13 13	woodland	1.2	1.2	1.3	0.1	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 14	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E13 15	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E13 16	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E13 17	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E13 18	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E13 19	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E13 20	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E14 1	grassland	3.2	3.3	3.3	0.6	<1% CL not significant	1.8	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E14 2	grassland	2.9	2.9	2.9	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E14 3	grassland	2.4	2.5	2.5	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E14 4	grassland	2.2	2.2	2.2	0.3	<1% CL not significant	0.9	<1% CL not significant
E14 5	grassland	2.0	2.0	2.0	0.3	<1% CL not significant	0.8	<1% CL not significant
E14 6	grassland	1.9	1.9	1.9	0.2	<1% CL not significant	0.7	<1% CL not significant
E14 7	grassland	1.8	1.8	1.8	0.2	<1% CL not significant	0.6	<1% CL not significant
E14 8	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant
E14 9	grassland	1.7	1.7	1.7	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E14 10	grassland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 11	grassland	1.6	1.6	1.6	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 12	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 13	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 14	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E14 15	grassland	1.5	1.5	1.5	0.1	<1% CL not significant	0.3	<1% CL not significant
E14 16	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E14 17	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E14 18	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E14 19	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E14 20	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E14 21	grassland	1.4	1.4	1.4	0.1	<1% CL not significant	0.2	<1% CL not significant
E15 1	woodland	2.0	2.0	2.0	0.3	<1% CL not significant	0.9	<1% CL not significant
E15 2	woodland	1.7	1.7	1.7	0.2	<1% CL not significant	0.6	<1% CL not significant
E15 3	woodland	1.5	1.6	1.6	0.2	<1% CL not significant	0.5	<1% CL not significant
E15 4	woodland	1.5	1.5	1.5	0.2	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E16 1	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 2	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 3	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 4	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 5	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 6	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 7	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E16 8	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E16 9	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 1	woodland	1.3	1.3	1.3	0.2	<1% CL not significant	0.3	<1% CL not significant
E17 2	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 3	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 4	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 5	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 6	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 7	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E17 8	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 9	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 10	woodland	1.3	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 11	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E17 12	woodland	1.4	1.4	1.4	0.1	<1% CL not significant	0.3	<1% CL not significant
E18 1	woodland	1.8	1.8	1.8	0.6	<1% CL not significant	1.3	>1% seek advice from Ecologist
E18 2	woodland	1.6	1.6	1.7	0.5	<1% CL not significant	0.9	<1% CL not significant
E18 3	woodland	1.5	1.5	1.5	0.4	<1% CL not significant	0.7	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E18 4	woodland	1.5	1.5	1.5	0.4	<1% CL not significant	0.7	<1% CL not significant
E18 5	woodland	1.5	1.5	1.5	0.3	<1% CL not significant	0.6	<1% CL not significant
E18 6	woodland	1.4	1.4	1.4	0.3	<1% CL not significant	0.5	<1% CL not significant
E18 7	woodland	1.4	1.4	1.4	0.3	<1% CL not significant	0.5	<1% CL not significant
E18 8	woodland	1.4	1.4	1.4	0.2	<1% CL not significant	0.5	<1% CL not significant
E18 9	woodland	1.4	1.4	1.4	0.2	<1% CL not significant	0.5	<1% CL not significant
E18 10	woodland	1.4	1.4	1.4	0.2	<1% CL not significant	0.4	<1% CL not significant
E18 11	woodland	1.4	1.4	1.4	0.2	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E19 1	woodland	1.5	1.6	1.6	0.4	<1% CL not significant	0.8	<1% CL not significant
E19 2	woodland	1.4	1.4	1.4	0.3	<1% CL not significant	0.5	<1% CL not significant
E19 3	woodland	1.3	1.3	1.3	0.2	<1% CL not significant	0.4	<1% CL not significant
E19 4	woodland	1.3	1.3	1.3	0.2	<1% CL not significant	0.3	<1% CL not significant
E19 5	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.3	<1% CL not significant
E19 6	woodland	1.3	1.3	1.3	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 7	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 8	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E19 9	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 10	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.2	<1% CL not significant
E19 11	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.1	<1% CL not significant
E19 12	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.1	<1% CL not significant
E19 13	woodland	1.2	1.2	1.2	0.1	<1% CL not significant	0.1	<1% CL not significant
E20 1	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.2	<1% CL not significant
E20 2	woodland	1.3	1.3	1.3	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 3	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E20 4	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 5	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 6	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 7	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 8	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 9	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 10	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 11	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQUAL	Significance	change as % of AQUAL	Significance
E20 12	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 13	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 14	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 15	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 16	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 17	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant
E20 18	woodland	1.2	1.2	1.2	0.0	<1% CL not significant	0.1	<1% CL not significant

Table 7.4.6: Predicted Nutrient Nitrogen Deposition (kgN/ha/yr))

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 1	woodland	51.03	51.46	51.54	0.9	<1% CL not significant	5.2	>1% seek advice from Ecologist
E1 2	woodland	44.01	44.32	44.39	0.6	<1% CL not significant	3.8	>1% seek advice from Ecologist
E1 3	woodland	40.10	40.35	40.40	0.5	<1% CL not significant	3.0	>1% seek advice from Ecologist
E1 4	woodland	38.52	38.74	38.79	0.5	<1% CL not significant	2.7	>1% seek advice from Ecologist
E1 5	woodland	35.66	35.84	35.87	0.4	<1% CL not significant	2.1	>1% seek advice from Ecologist
E1 6	woodland	34.17	34.32	34.35	0.3	<1% CL not significant	1.8	>1% seek advice from Ecologist
E1 7	woodland	33.16	33.30	33.32	0.3	<1% CL not significant	1.6	>1% seek advice from Ecologist
E1 8	woodland	32.23	32.35	32.38	0.3	<1% CL not significant	1.4	>1% seek advice from Ecologist
E1 9	woodland	31.50	31.60	31.62	0.2	<1% CL not significant	1.3	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 10	woodland	30.95	31.05	31.07	0.2	<1% CL not significant	1.2	>1% seek advice from Ecologist
E1 11	woodland	30.42	30.51	30.53	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E1 12	woodland	30.00	30.08	30.10	0.2	<1% CL not significant	1.0	>1% seek advice from Ecologist
E1 13	woodland	29.66	29.73	29.75	0.2	<1% CL not significant	0.9	<1% CL not significant
E1 14	woodland	29.32	29.39	29.40	0.2	<1% CL not significant	0.8	<1% CL not significant
E1 15	woodland	29.06	29.12	29.14	0.1	<1% CL not significant	0.8	<1% CL not significant
E1 16	woodland	28.76	28.82	28.84	0.1	<1% CL not significant	0.7	<1% CL not significant
E1 17	woodland	28.58	28.64	28.65	0.1	<1% CL not significant	0.7	<1% CL not significant
E1 18	woodland	28.37	28.43	28.44	0.1	<1% CL not significant	0.7	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E1 19	woodland	28.20	28.25	28.26	0.1	<1% CL not significant	0.6	<1% CL not significant
E1 20	woodland	28.04	28.09	28.10	0.1	<1% CL not significant	0.6	<1% CL not significant
E1 21	woodland	27.91	27.96	27.97	0.1	<1% CL not significant	0.6	<1% CL not significant
E2 1	woodland	54.50	54.99	55.09	1.0	<1% CL not significant	5.9	>1% seek advice from Ecologist
E2 2	woodland	43.96	44.27	44.34	0.6	<1% CL not significant	3.8	>1% seek advice from Ecologist
E2 3	woodland	39.02	39.25	39.30	0.5	<1% CL not significant	2.8	>1% seek advice from Ecologist
E2 4	woodland	36.22	36.41	36.44	0.4	<1% CL not significant	2.2	>1% seek advice from Ecologist
E2 5	woodland	34.36	34.51	34.54	0.3	<1% CL not significant	1.9	>1% seek advice from Ecologist
E2 6	woodland	32.99	33.12	33.14	0.3	<1% CL not significant	1.6	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E2 7	woodland	31.99	32.10	32.13	0.2	<1% CL not significant	1.4	>1% seek advice from Ecologist
E2 8	woodland	31.24	31.35	31.37	0.2	<1% CL not significant	1.2	>1% seek advice from Ecologist
E2 9	woodland	30.53	30.62	30.64	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E2 10	woodland	30.09	30.18	30.19	0.2	<1% CL not significant	1.0	>1% seek advice from Ecologist
E2 11	woodland	29.64	29.72	29.73	0.2	<1% CL not significant	0.9	<1% CL not significant
E2 12	woodland	29.29	29.36	29.37	0.2	<1% CL not significant	0.8	<1% CL not significant
E2 13	woodland	28.97	29.03	29.05	0.1	<1% CL not significant	0.8	<1% CL not significant
E2 14	woodland	28.71	28.76	28.78	0.1	<1% CL not significant	0.7	<1% CL not significant
E2 15	woodland	28.47	28.53	28.54	0.1	<1% CL not significant	0.7	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E2 16	woodland	28.27	28.33	28.34	0.1	<1% CL not significant	0.6	<1% CL not significant
E2 17	woodland	28.09	28.14	28.15	0.1	<1% CL not significant	0.6	<1% CL not significant
E2 18	woodland	27.93	27.98	27.99	0.1	<1% CL not significant	0.6	<1% CL not significant
E2 19	woodland	27.80	27.84	27.85	0.1	<1% CL not significant	0.5	<1% CL not significant
E2 20	woodland	27.66	27.71	27.71	0.1	<1% CL not significant	0.5	<1% CL not significant
E2 21	woodland	27.55	27.59	27.60	0.1	<1% CL not significant	0.5	<1% CL not significant
E3 1	grassland	24.54	24.71	24.74	0.6	<1% CL not significant	3.4	>1% seek advice from Ecologist
E3 2	grassland	22.81	22.95	22.98	0.5	<1% CL not significant	2.8	>1% seek advice from Ecologist
E3 3	grassland	21.65	21.77	21.80	0.4	<1% CL not significant	2.4	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E3 4	grassland	20.78	20.88	20.91	0.4	<1% CL not significant	2.1	>1% seek advice from Ecologist
E3 5	grassland	20.07	20.16	20.18	0.3	<1% CL not significant	1.9	>1% seek advice from Ecologist
E3 6	grassland	19.52	19.61	19.63	0.3	<1% CL not significant	1.7	>1% seek advice from Ecologist
E4 1	woodland	37.56	37.77	37.81	0.4	<1% CL not significant	2.6	>1% seek advice from Ecologist
E4 2	woodland	35.10	35.27	35.31	0.3	<1% CL not significant	2.1	>1% seek advice from Ecologist
E4 3	woodland	32.94	33.08	33.11	0.3	<1% CL not significant	1.6	>1% seek advice from Ecologist
E4 4	woodland	31.57	31.68	31.70	0.2	<1% CL not significant	1.4	>1% seek advice from Ecologist
E4 5	woodland	30.61	30.70	30.72	0.2	<1% CL not significant	1.2	>1% seek advice from Ecologist
E4 6	woodland	29.90	29.98	30.00	0.2	<1% CL not significant	1.0	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E4 7	woodland	29.35	29.43	29.44	0.2	<1% CL not significant	0.9	<1% CL not significant
E4 8	woodland	28.91	28.98	29.00	0.1	<1% CL not significant	0.8	<1% CL not significant
E4 9	woodland	28.56	28.62	28.63	0.1	<1% CL not significant	0.8	<1% CL not significant
E4 10	woodland	28.26	28.32	28.33	0.1	<1% CL not significant	0.7	<1% CL not significant
E4 11	woodland	28.01	28.07	28.08	0.1	<1% CL not significant	0.6	<1% CL not significant
E4 12	woodland	27.80	27.85	27.86	0.1	<1% CL not significant	0.6	<1% CL not significant
E4 13	woodland	27.61	27.66	27.67	0.1	<1% CL not significant	0.6	<1% CL not significant
E4 14	woodland	27.45	27.49	27.50	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 15	woodland	27.31	27.35	27.36	0.1	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E4 16	woodland	27.18	27.22	27.22	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 17	woodland	27.06	27.10	27.11	0.1	<1% CL not significant	0.5	<1% CL not significant
E4 18	woodland	26.96	26.99	27.00	0.1	<1% CL not significant	0.4	<1% CL not significant
E4 19	woodland	26.86	26.90	26.91	0.1	<1% CL not significant	0.4	<1% CL not significant
E4 20	woodland	26.78	26.81	26.82	0.1	<1% CL not significant	0.4	<1% CL not significant
E5 1	woodland	53.02	53.48	53.58	0.9	<1% CL not significant	5.6	>1% seek advice from Ecologist
E5 2	woodland	50.39	50.81	50.89	0.8	<1% CL not significant	5.0	>1% seek advice from Ecologist
E5 3	woodland	44.50	44.82	44.89	0.6	<1% CL not significant	3.9	>1% seek advice from Ecologist
E5 4	woodland	40.94	41.21	41.26	0.5	<1% CL not significant	3.2	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E5 5	woodland	38.54	38.76	38.81	0.5	<1% CL not significant	2.7	>1% seek advice from Ecologist
E5 6	woodland	36.79	36.99	37.03	0.4	<1% CL not significant	2.4	>1% seek advice from Ecologist
E5 7	woodland	35.47	35.64	35.68	0.3	<1% CL not significant	2.1	>1% seek advice from Ecologist
E5 8	woodland	34.43	34.58	34.61	0.3	<1% CL not significant	1.9	>1% seek advice from Ecologist
E5 9	woodland	33.58	33.72	33.75	0.3	<1% CL not significant	1.7	>1% seek advice from Ecologist
E5 10	woodland	32.88	33.01	33.04	0.3	<1% CL not significant	1.6	>1% seek advice from Ecologist
E5 11	woodland	32.30	32.42	32.44	0.2	<1% CL not significant	1.5	>1% seek advice from Ecologist
E5 12	woodland	31.79	31.91	31.93	0.2	<1% CL not significant	1.4	>1% seek advice from Ecologist
E5 13	woodland	31.36	31.47	31.49	0.2	<1% CL not significant	1.3	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E5 14	woodland	30.98	31.08	31.10	0.2	<1% CL not significant	1.2	>1% seek advice from Ecologist
E5 15	woodland	30.65	30.74	30.76	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E5 16	woodland	30.35	30.44	30.46	0.2	<1% CL not significant	1.1	>1% seek advice from Ecologist
E5 17	woodland	30.08	30.17	30.18	0.2	<1% CL not significant	1.0	>1% seek advice from Ecologist
E5 18	woodland	29.58	29.66	29.68	0.2	<1% CL not significant	0.9	<1% CL not significant
E5 19	woodland	29.43	29.50	29.52	0.1	<1% CL not significant	0.9	<1% CL not significant
E5 20	woodland	29.25	29.32	29.33	0.1	<1% CL not significant	0.8	<1% CL not significant
E6 1	woodland	49.80	50.20	50.39	1.9	>1% seek advice from Ecologist	5.9	>1% seek advice from Ecologist
E6 2	woodland	47.36	47.73	47.90	1.7	>1% seek advice from Ecologist	5.3	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 3	woodland	41.99	42.27	42.40	1.3	>1% seek advice from Ecologist	4.1	>1% seek advice from Ecologist
E6 4	woodland	38.79	39.02	39.12	1.0	>1% seek advice from Ecologist	3.3	>1% seek advice from Ecologist
E6 5	woodland	36.65	36.84	36.93	0.9	<1% CL not significant	2.8	>1% seek advice from Ecologist
E6 6	woodland	35.10	35.27	35.35	0.8	<1% CL not significant	2.5	>1% seek advice from Ecologist
E6 7	woodland	33.93	34.08	34.15	0.7	<1% CL not significant	2.2	>1% seek advice from Ecologist
E6 8	woodland	33.01	33.15	33.21	0.6	<1% CL not significant	2.0	>1% seek advice from Ecologist
E6 9	woodland	32.27	32.40	32.45	0.6	<1% CL not significant	1.8	>1% seek advice from Ecologist
E6 10	woodland	31.66	31.77	31.83	0.5	<1% CL not significant	1.7	>1% seek advice from Ecologist
E6 11	woodland	31.15	31.25	31.30	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 12	woodland	30.71	30.81	30.85	0.4	<1% CL not significant	1.4	>1% seek advice from Ecologist
E6 13	woodland	30.33	30.43	30.47	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E6 14	woodland	30.01	30.09	30.13	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E6 15	woodland	29.72	29.80	29.84	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist
E6 16	woodland	29.46	29.54	29.57	0.3	<1% CL not significant	1.1	>1% seek advice from Ecologist
E6 17	woodland	29.23	29.31	29.34	0.3	<1% CL not significant	1.1	>1% seek advice from Ecologist
E6 18	woodland	29.03	29.10	29.13	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E6 19	woodland	28.84	28.91	28.94	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E6 20	woodland	28.67	28.74	28.77	0.3	<1% CL not significant	0.9	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E6 21	woodland	28.52	28.58	28.61	0.3	<1% CL not significant	0.9	<1% CL not significant
E7 1	woodland	40.16	40.42	40.53	1.2	>1% seek advice from Ecologist	3.7	>1% seek advice from Ecologist
E7 2	woodland	38.15	38.37	38.47	1.0	>1% seek advice from Ecologist	3.2	>1% seek advice from Ecologist
E7 3	woodland	34.24	34.39	34.47	0.7	<1% CL not significant	2.3	>1% seek advice from Ecologist
E7 4	woodland	32.08	32.20	32.26	0.6	<1% CL not significant	1.8	>1% seek advice from Ecologist
E7 5	woodland	30.86	30.96	31.01	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E7 6	woodland	29.91	29.99	30.03	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E7 7	woodland	29.21	29.29	29.32	0.3	<1% CL not significant	1.1	>1% seek advice from Ecologist
E7 8	woodland	28.67	28.74	28.77	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 9	woodland	28.26	28.32	28.35	0.3	<1% CL not significant	0.9	<1% CL not significant
E7 10	woodland	27.96	28.01	28.04	0.2	<1% CL not significant	0.8	<1% CL not significant
E7 11	woodland	27.67	27.72	27.74	0.2	<1% CL not significant	0.7	<1% CL not significant
E7 12	woodland	27.44	27.49	27.51	0.2	<1% CL not significant	0.7	<1% CL not significant
E7 13	woodland	27.25	27.29	27.31	0.2	<1% CL not significant	0.6	<1% CL not significant
E7 14	woodland	27.09	27.13	27.15	0.2	<1% CL not significant	0.6	<1% CL not significant
E7 15	woodland	26.94	26.98	27.00	0.2	<1% CL not significant	0.6	<1% CL not significant
E7 16	woodland	26.81	26.85	26.86	0.2	<1% CL not significant	0.5	<1% CL not significant
E7 17	woodland	26.71	26.74	26.76	0.2	<1% CL not significant	0.5	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E7 18	woodland	26.61	26.64	26.66	0.1	<1% CL not significant	0.5	<1% CL not significant
E7 19	woodland	26.52	26.55	26.56	0.1	<1% CL not significant	0.5	<1% CL not significant
E7 20	woodland	26.45	26.48	26.49	0.1	<1% CL not significant	0.4	<1% CL not significant
E7 21	woodland	26.37	26.40	26.42	0.1	<1% CL not significant	0.4	<1% CL not significant
E8 1	grassland	20.55	20.67	20.74	0.7	<1% CL not significant	1.9	>1% seek advice from Ecologist
E8 2	grassland	18.86	18.95	19.00	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E8 3	grassland	17.71	17.78	17.83	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist
E8 4	grassland	17.02	17.08	17.12	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E8 5	grassland	16.56	16.61	16.65	0.3	<1% CL not significant	0.9	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E8 6	grassland	16.21	16.26	16.29	0.3	<1% CL not significant	0.8	<1% CL not significant
E8 7	grassland	15.98	16.03	16.06	0.3	<1% CL not significant	0.8	<1% CL not significant
E8 8	grassland	15.81	15.85	15.88	0.3	<1% CL not significant	0.7	<1% CL not significant
E8 9	grassland	15.68	15.72	15.75	0.3	<1% CL not significant	0.7	<1% CL not significant
E8 10	grassland	15.59	15.63	15.66	0.3	<1% CL not significant	0.7	<1% CL not significant
E8 11	grassland	15.53	15.57	15.60	0.3	<1% CL not significant	0.7	<1% CL not significant
E8 12	grassland	15.50	15.54	15.57	0.3	<1% CL not significant	0.7	<1% CL not significant
E8 13	grassland	15.50	15.54	15.57	0.3	<1% CL not significant	0.8	<1% CL not significant
E8 14	grassland	15.53	15.57	15.61	0.4	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E8 15	grassland	15.60	15.65	15.69	0.4	<1% CL not significant	0.9	<1% CL not significant
E8 16	grassland	15.90	15.95	16.00	0.5	>1% seek advice from Ecologist	2.2	>1% seek advice from Ecologist
E9 1	grassland	35.04	35.40	35.59	1.8	>1% seek advice from Ecologist	5.4	>1% seek advice from Ecologist
E9 2	grassland	28.79	29.05	29.18	1.3	>1% seek advice from Ecologist	3.9	>1% seek advice from Ecologist
E9 3	grassland	24.64	24.82	24.92	1.0	>1% seek advice from Ecologist	2.8	>1% seek advice from Ecologist
E9 4	grassland	22.52	22.67	22.75	0.8	<1% CL not significant	2.3	>1% seek advice from Ecologist
E9 5	grassland	21.02	21.15	21.22	0.7	<1% CL not significant	1.9	>1% seek advice from Ecologist
E9 6	grassland	20.06	20.17	20.23	0.6	<1% CL not significant	1.7	>1% seek advice from Ecologist
E9 7	grassland	19.26	19.36	19.41	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E9 8	grassland	18.65	18.74	18.79	0.5	<1% CL not significant	1.3	>1% seek advice from Ecologist
E9 9	grassland	18.20	18.28	18.33	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist
E9 10	grassland	17.80	17.87	17.91	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E9 11	grassland	17.47	17.53	17.57	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E9 12	grassland	17.21	17.27	17.30	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E9 13	grassland	16.96	17.02	17.05	0.3	<1% CL not significant	0.9	<1% CL not significant
E9 14	grassland	16.75	16.81	16.84	0.3	<1% CL not significant	0.9	<1% CL not significant
E9 15	grassland	16.58	16.63	16.66	0.3	<1% CL not significant	0.8	<1% CL not significant
E9 16	grassland	16.41	16.46	16.48	0.3	<1% CL not significant	0.8	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E9 17	grassland	16.26	16.31	16.33	0.3	<1% CL not significant	0.7	<1% CL not significant
E9 18	grassland	16.14	16.19	16.21	0.3	<1% CL not significant	0.7	<1% CL not significant
E9 19	grassland	16.02	16.06	16.09	0.2	<1% CL not significant	0.7	<1% CL not significant
E9 20	grassland	15.92	15.96	15.99	0.2	<1% CL not significant	0.7	<1% CL not significant
E9 21	grassland	15.82	15.86	15.89	0.2	<1% CL not significant	0.6	<1% CL not significant
E10 1	grassland	18.20	18.28	18.32	0.4	<1% CL not significant	1.2	<1% CL not significant
E10 2	grassland	17.79	17.86	17.90	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E10 3	grassland	17.49	17.56	17.60	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E10 4	grassland	17.22	17.29	17.32	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E10 5	grassland	16.98	17.04	17.07	0.3	<1% CL not significant	0.9	<1% CL not significant
E10 6	grassland	16.78	16.83	16.86	0.3	<1% CL not significant	0.9	<1% CL not significant
E10 7	grassland	16.60	16.65	16.68	0.3	<1% CL not significant	0.8	<1% CL not significant
E10 8	grassland	16.45	16.50	16.52	0.3	<1% CL not significant	0.8	<1% CL not significant
E10 9	grassland	16.30	16.35	16.38	0.3	<1% CL not significant	0.7	<1% CL not significant
E10 10	grassland	16.18	16.23	16.25	0.3	<1% CL not significant	0.7	<1% CL not significant
E10 11	grassland	16.07	16.11	16.13	0.2	<1% CL not significant	0.7	<1% CL not significant
E10 12	grassland	15.96	16.01	16.03	0.2	<1% CL not significant	0.7	<1% CL not significant
E10 13	grassland	15.86	15.90	15.93	0.2	<1% CL not significant	0.6	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E11 1	grassland	15.76	15.80	15.82	0.2	<1% CL not significant	0.6	<1% CL not significant
E11 2	grassland	15.68	15.72	15.74	0.2	<1% CL not significant	0.6	<1% CL not significant
E11 3	grassland	15.49	15.53	15.55	0.2	<1% CL not significant	0.6	<1% CL not significant
E11 4	grassland	15.32	15.35	15.37	0.2	<1% CL not significant	0.5	<1% CL not significant
E11 5	grassland	15.19	15.22	15.24	0.2	<1% CL not significant	0.5	<1% CL not significant
E11 6	grassland	15.08	15.11	15.13	0.2	<1% CL not significant	0.5	<1% CL not significant
E11 7	grassland	14.99	15.02	15.04	0.2	<1% CL not significant	0.5	<1% CL not significant
E11 8	grassland	14.91	14.94	14.95	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 9	grassland	14.85	14.88	14.89	0.2	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E11 10	grassland	14.79	14.82	14.84	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 11	grassland	14.75	14.77	14.79	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 12	grassland	14.70	14.73	14.74	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 13	grassland	14.67	14.69	14.71	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 14	grassland	14.64	14.66	14.67	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 15	grassland	14.61	14.63	14.65	0.2	<1% CL not significant	0.4	<1% CL not significant
E11 16	grassland	14.59	14.61	14.62	0.2	<1% CL not significant	0.4	<1% CL not significant
E12 1	woodland	43.61	43.93	44.10	1.6	>1% seek advice from Ecologist	4.9	>1% seek advice from Ecologist
E12 2	woodland	38.78	39.03	39.16	1.2	>1% seek advice from Ecologist	3.7	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 3	woodland	36.17	36.38	36.48	1.0	>1% seek advice from Ecologist	3.1	>1% seek advice from Ecologist
E12 4	woodland	34.38	34.56	34.65	0.9	<1% CL not significant	2.6	>1% seek advice from Ecologist
E12 5	woodland	33.08	33.23	33.31	0.8	<1% CL not significant	2.3	>1% seek advice from Ecologist
E12 6	woodland	32.08	32.21	32.28	0.7	<1% CL not significant	2.0	>1% seek advice from Ecologist
E12 7	woodland	31.29	31.41	31.47	0.6	<1% CL not significant	1.9	>1% seek advice from Ecologist
E12 8	woodland	30.65	30.76	30.82	0.6	<1% CL not significant	1.7	>1% seek advice from Ecologist
E12 9	woodland	30.12	30.22	30.27	0.5	<1% CL not significant	1.6	>1% seek advice from Ecologist
E12 10	woodland	29.67	29.77	29.81	0.5	<1% CL not significant	1.4	>1% seek advice from Ecologist
E12 11	woodland	29.29	29.38	29.42	0.5	<1% CL not significant	1.4	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E12 12	woodland	28.96	29.04	29.08	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E12 13	woodland	28.67	28.75	28.79	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist
E12 14	woodland	28.41	28.49	28.53	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E12 15	woodland	28.18	28.26	28.29	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E12 16	woodland	27.98	28.05	28.08	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E12 17	woodland	27.80	27.86	27.90	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E12 18	woodland	27.63	27.69	27.73	0.3	<1% CL not significant	0.9	<1% CL not significant
E12 19	woodland	27.48	27.54	27.57	0.3	<1% CL not significant	0.9	<1% CL not significant
E13 1	woodland	33.69	33.85	33.94	0.8	<1% CL not significant	2.5	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 2	woodland	31.27	31.39	31.45	0.6	<1% CL not significant	1.9	>1% seek advice from Ecologist
E13 3	woodland	29.72	29.82	29.87	0.5	<1% CL not significant	1.5	>1% seek advice from Ecologist
E13 4	woodland	28.74	28.82	28.86	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist
E13 5	woodland	28.05	28.12	28.16	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E13 6	woodland	27.54	27.60	27.64	0.3	<1% CL not significant	0.9	<1% CL not significant
E13 7	woodland	27.15	27.20	27.23	0.3	<1% CL not significant	0.8	<1% CL not significant
E13 8	woodland	26.84	26.89	26.91	0.3	<1% CL not significant	0.8	<1% CL not significant
E13 9	woodland	26.58	26.63	26.65	0.2	<1% CL not significant	0.7	<1% CL not significant
E13 10	woodland	26.37	26.41	26.43	0.2	<1% CL not significant	0.6	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 11	woodland	26.19	26.22	26.24	0.2	<1% CL not significant	0.6	<1% CL not significant
E13 12	woodland	26.03	26.07	26.09	0.2	<1% CL not significant	0.6	<1% CL not significant
E13 13	woodland	25.90	25.93	25.95	0.2	<1% CL not significant	0.5	<1% CL not significant
E13 14	woodland	25.78	25.81	25.83	0.2	<1% CL not significant	0.5	<1% CL not significant
E13 15	woodland	25.67	25.70	25.72	0.2	<1% CL not significant	0.5	<1% CL not significant
E13 16	woodland	25.58	25.61	25.62	0.2	<1% CL not significant	0.4	<1% CL not significant
E13 17	woodland	25.49	25.52	25.53	0.1	<1% CL not significant	0.4	<1% CL not significant
E13 18	woodland	25.42	25.44	25.46	0.1	<1% CL not significant	0.4	<1% CL not significant
E13 19	woodland	25.35	25.37	25.39	0.1	<1% CL not significant	0.4	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E13 20	woodland	25.29	25.31	25.32	0.1	<1% CL not significant	0.4	<1% CL not significant
E14 1	grassland	28.87	29.13	29.26	1.3	>1% seek advice from Ecologist	3.9	>1% seek advice from Ecologist
E14 2	grassland	26.25	26.46	26.57	1.1	>1% seek advice from Ecologist	3.2	>1% seek advice from Ecologist
E14 3	grassland	23.06	23.22	23.31	0.8	>1% seek advice from Ecologist	2.5	>1% seek advice from Ecologist
E14 4	grassland	21.29	21.42	21.49	0.7	>1% seek advice from Ecologist	2.0	>1% seek advice from Ecologist
E14 5	grassland	20.00	20.11	20.17	0.6	>1% seek advice from Ecologist	1.7	>1% seek advice from Ecologist
E14 6	grassland	19.13	19.23	19.28	0.5	>1% seek advice from Ecologist	1.5	>1% seek advice from Ecologist
E14 7	grassland	18.38	18.47	18.51	0.4	<1% CL not significant	1.3	>1% seek advice from Ecologist
E14 8	grassland	17.87	17.95	17.99	0.4	<1% CL not significant	1.2	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E14 9	grassland	17.42	17.49	17.53	0.4	<1% CL not significant	1.1	>1% seek advice from Ecologist
E14 10	grassland	17.05	17.12	17.15	0.3	<1% CL not significant	1.0	>1% seek advice from Ecologist
E14 11	grassland	16.77	16.83	16.85	0.3	<1% CL not significant	0.9	>1% seek advice from Ecologist
E14 12	grassland	16.49	16.54	16.57	0.3	<1% CL not significant	0.8	>1% seek advice from Ecologist
E14 13	grassland	16.28	16.33	16.35	0.3	<1% CL not significant	0.8	>1% seek advice from Ecologist
E14 14	grassland	16.08	16.12	16.15	0.2	<1% CL not significant	0.7	>1% seek advice from Ecologist
E14 15	grassland	15.91	15.96	15.98	0.2	<1% CL not significant	0.7	>1% seek advice from Ecologist
E14 16	grassland	15.75	15.79	15.81	0.2	<1% CL not significant	0.6	>1% seek advice from Ecologist
E14 17	grassland	15.62	15.66	15.68	0.2	<1% CL not significant	0.6	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E14 18	grassland	15.49	15.53	15.55	0.2	<1% CL not significant	0.6	>1% seek advice from Ecologist
E14 19	grassland	15.39	15.43	15.44	0.2	<1% CL not significant	0.5	>1% seek advice from Ecologist
E14 20	grassland	15.29	15.32	15.34	0.2	<1% CL not significant	0.5	>1% seek advice from Ecologist
E14 21	grassland	15.19	15.23	15.24	0.2	<1% CL not significant	0.5	>1% seek advice from Ecologist
E15 1	woodland	34.74	34.94	35.05	1.1	>1% seek advice from Ecologist	3.2	>1% seek advice from Ecologist
E15 2	woodland	31.73	31.88	31.96	0.8	<1% CL not significant	2.3	>1% seek advice from Ecologist
E15 3	woodland	29.84	29.95	30.01	0.7	<1% CL not significant	1.7	>1% seek advice from Ecologist
E15 4	woodland	28.94	29.03	29.09	0.6	<1% CL not significant	1.5	>1% seek advice from Ecologist
E16 1	woodland	27.44	27.49	27.53	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E16 2	woodland	27.42	27.47	27.51	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E16 3	woodland	27.37	27.42	27.46	0.4	<1% CL not significant	0.9	<1% CL not significant
E16 4	woodland	27.33	27.38	27.43	0.4	<1% CL not significant	0.9	<1% CL not significant
E16 5	woodland	27.30	27.35	27.40	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E16 6	woodland	27.29	27.34	27.38	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E16 7	woodland	27.28	27.33	27.38	0.5	<1% CL not significant	1.0	>1% seek advice from Ecologist
E16 8	woodland	27.28	27.34	27.38	0.5	<1% CL not significant	1.0	>1% seek advice from Ecologist
E16 9	woodland	27.30	27.35	27.40	0.5	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 1	woodland	27.39	27.45	27.50	0.5	<1% CL not significant	1.1	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E17 2	woodland	27.37	27.43	27.48	0.5	<1% CL not significant	1.1	>1% seek advice from Ecologist
E17 3	woodland	27.36	27.41	27.46	0.5	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 4	woodland	27.36	27.41	27.46	0.5	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 5	woodland	27.37	27.42	27.46	0.5	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 6	woodland	27.38	27.44	27.48	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 7	woodland	27.41	27.46	27.51	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 8	woodland	27.45	27.50	27.54	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 9	woodland	27.49	27.55	27.59	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 10	woodland	27.55	27.61	27.65	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E17 11	woodland	27.62	27.68	27.72	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E17 12	woodland	27.70	27.76	27.80	0.4	<1% CL not significant	1.0	>1% seek advice from Ecologist
E18 1	woodland	32.53	32.75	32.96	2.2	>1% seek advice from Ecologist	4.3	>1% seek advice from Ecologist
E18 2	woodland	30.60	30.76	30.92	1.6	>1% seek advice from Ecologist	3.2	>1% seek advice from Ecologist
E18 3	woodland	29.46	29.59	29.71	1.3	>1% seek advice from Ecologist	2.5	>1% seek advice from Ecologist
E18 4	woodland	29.35	29.47	29.59	1.2	>1% seek advice from Ecologist	2.4	>1% seek advice from Ecologist
E18 5	woodland	28.74	28.84	28.95	1.1	>1% seek advice from Ecologist	2.1	>1% seek advice from Ecologist
E18 6	woodland	28.34	28.43	28.52	0.9	<1% CL not significant	1.9	>1% seek advice from Ecologist
E18 7	woodland	28.07	28.15	28.24	0.9	<1% CL not significant	1.7	>1% seek advice from Ecologist

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E18 8	woodland	27.92	28.00	28.08	0.9	<1% CL not significant	1.6	>1% seek advice from Ecologist
E18 9	woodland	27.77	27.84	27.92	0.8	<1% CL not significant	1.6	>1% seek advice from Ecologist
E18 10	woodland	27.65	27.72	27.80	0.8	<1% CL not significant	1.5	>1% seek advice from Ecologist
E18 11	woodland	27.56	27.63	27.70	0.8	<1% CL not significant	1.5	>1% seek advice from Ecologist
E19 1	woodland	29.60	29.73	29.86	1.3	>1% seek advice from Ecologist	2.6	>1% seek advice from Ecologist
E19 2	woodland	28.11	28.20	28.29	0.9	<1% CL not significant	1.8	>1% seek advice from Ecologist
E19 3	woodland	27.33	27.40	27.46	0.6	<1% CL not significant	1.3	>1% seek advice from Ecologist
E19 4	woodland	26.95	27.00	27.06	0.5	<1% CL not significant	1.1	>1% seek advice from Ecologist
E19 5	woodland	26.66	26.71	26.76	0.4	<1% CL not significant	0.9	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E19 6	woodland	26.45	26.50	26.54	0.4	<1% CL not significant	0.8	<1% CL not significant
E19 7	woodland	26.29	26.33	26.37	0.4	<1% CL not significant	0.8	<1% CL not significant
E19 8	woodland	26.04	26.07	26.10	0.3	<1% CL not significant	0.6	<1% CL not significant
E19 9	woodland	25.95	25.98	26.01	0.3	<1% CL not significant	0.6	<1% CL not significant
E19 10	woodland	25.86	25.89	25.92	0.2	<1% CL not significant	0.5	<1% CL not significant
E19 11	woodland	25.78	25.81	25.83	0.2	<1% CL not significant	0.5	<1% CL not significant
E19 12	woodland	25.71	25.74	25.76	0.2	<1% CL not significant	0.5	<1% CL not significant
E19 13	woodland	25.67	25.69	25.71	0.2	<1% CL not significant	0.5	<1% CL not significant
E20 1	woodland	27.46	27.51	27.51	0.1	<1% CL not significant	0.6	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E20 2	woodland	26.89	26.93	26.93	0.1	<1% CL not significant	0.5	<1% CL not significant
E20 3	woodland	26.54	26.57	26.58	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 4	woodland	26.34	26.37	26.38	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 5	woodland	26.24	26.27	26.28	0.1	<1% CL not significant	0.3	<1% CL not significant
E20 6	woodland	26.18	26.20	26.21	0.1	<1% CL not significant	0.3	<1% CL not significant
E20 7	woodland	26.14	26.17	26.17	0.1	<1% CL not significant	0.3	<1% CL not significant
E20 8	woodland	26.12	26.14	26.15	0.1	<1% CL not significant	0.3	<1% CL not significant
E20 9	woodland	26.11	26.13	26.14	0.1	<1% CL not significant	0.3	<1% CL not significant
E20 10	woodland	26.10	26.13	26.14	0.1	<1% CL not significant	0.3	<1% CL not significant

Receptor	Habitat Type	2028 Base (2025 flows with 2028 Emission Factors)	2028 Do-Minimum	2028 Do-Something	Impact of Development 'Alone'		Impact of Development 'In-combination'	
					change as % of AQAL	Significance	change as % of AQAL	Significance
E20 11	woodland	26.11	26.13	26.14	0.1	<1% CL not significant	0.3	<1% CL not significant
E20 12	woodland	26.20	26.23	26.24	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 13	woodland	26.24	26.27	26.28	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 14	woodland	26.28	26.31	26.32	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 15	woodland	26.33	26.36	26.37	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 16	woodland	26.38	26.41	26.42	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 17	woodland	26.44	26.47	26.48	0.1	<1% CL not significant	0.4	<1% CL not significant
E20 18	woodland	26.49	26.53	26.54	0.1	<1% CL not significant	0.4	<1% CL not significant

Appendix 7.5 – Abbreviations and Glossary

Term	Definition
Accuracy	A measure of how well a set of data fits the true value.
Air quality objective	Policy target generally expressed as a maximum ambient concentration to be achieved, either without exception or with a permitted number of exceedances within a specific timescale (see also air quality standard).
Air quality standard	The concentrations of pollutants in the atmosphere which can broadly be taken to achieve a certain level of environmental quality. The standards are based on the assessment of the effects of each pollutant on human health including the effects on sensitive sub groups (see also air quality objective).
Ambient air	Outdoor air in the troposphere, excluding workplace air.
Annual mean	The average (mean) of the concentrations measured for each pollutant for one year. Usually this is for a calendar year, but some species are reported for the period April to March, known as a pollution year. This period avoids splitting winter season between 2 years, which is useful for pollutants that have higher concentrations during the winter months.
AQMA	Air Quality Management Area.
DEFRA	Department for Environment, Food and Rural Affairs.
Exceedance	A period of time where the concentrations of a pollutant is greater than, or equal to, the appropriate air quality standard.
Fugitive emissions	Emissions arising from the passage of vehicles that do not arise from the exhaust system.
LAQM	Local Air Quality Management.
NO	Nitrogen monoxide, a.k.a. nitric oxide.
NO ₂	Nitrogen dioxide.
NO _x	Nitrogen oxides.
O ₃	Ozone.
Percentile	The percentage of results below a given value.
PM ₁₀	Particulate matter with an aerodynamic diameter of less than 10 micrometres.
Ratification (Monitoring)	Involves a critical review of all information relating to a data set, in order to amend or reject the data. When the data have been ratified they represent the final data to be used (see also validation).
µg ^{m-3} micrograms per cubic metre	A measure of concentration in terms of mass per unit volume. A concentration of 1ug/m ³ means that one cubic metre of air contains one microgram (millionth of a gram) of pollutant.
UKAS	United Kingdom Accreditation Service.

Term	Definition
Uncertainty	A measure, associated with the result of a measurement, which characterizes the range of values within which the true value is expected to lie. Uncertainty is usually expressed as the range within which the true value is expected to lie with a 95% probability, where standard statistical and other procedures have been used to evaluate this figure. Uncertainty is more clearly defined than the closely related parameter 'accuracy', and has replaced it on recent European legislation.
USA	Updating and Screening Assessment.
Validation (modelling)	Refers to the general comparison of modelled results against monitoring data carried out by model developers.
Validation (monitoring)	Screening monitoring data by visual examination to check for spurious and unusual measurements (see also ratification).
Verification (modelling)	Comparison of modelled results versus any local monitoring data at relevant locations.