

SEA ENVIRONMENTAL REPORT

FOR THE

NEWCASTLE WEST LOCAL AREA PLAN 2023-2029

for:

Limerick City and County Council

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County Limerick



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List of Abbreviations

AA	Appropriate Assessment
CAFE	Cleaner Air for Europe
CFRAM	Catchment Flood Risk Assessment and Management
CORINE	Co-ORdinated INformation on the Environment
CSO	Central Statistics Office
DAFM	Department of Agriculture, Food and Marine
DCHG	Department of Culture, Heritage and the Gaeltacht
DECC	Department of the Environment, Climate and Communications
DEHLG	Department of the Environment, Heritage and Local Government
DHLGH	Department of Housing, Local Government and Heritage
EIA	Environmental Impact Assessment
EPA	Environmental Protection Agency
EQS	Environmental Quality Standard
ELVs	Emission Discharge Values
EU	European Union
GFC	Gross Final Consumption
GSI	Geological Survey of Ireland
LCA	Landscape Character Assessment
NHA	Natural Heritage Area
NIAH	National Inventory of Architectural Heritage
NTA	National Transport Authority
OPW	Office of Public Works
pNHA	proposed Natural Heritage Area
PAS	Priority Action Substance
RAL	Remedial Action List
RBD	River Basin District
RBMP	River Basin Management Plan
RMP	Record of Monuments and Places
RPA	Register of Protected Areas
RSES	Regional Spatial and Economic Strategy
SAC	Special Area of Conservation
SEA	Strategic Environmental Assessment
SEO	Strategic Environmental Objective
SI No.	Statutory Instrument Number
SPA	Special Protection Area
SuDS	Sustainable urban Drainage systems
WHO	World Health Organisation
WFD	Water Framework Directive
WRZ	Water Resource Zone

Glossary

Appropriate Assessment

The obligation to undertake Appropriate Assessment (AA) derives from Article 6(3) and 6(4) of the Habitats Directive 92/43/EEC. AA is a focused and detailed impact assessment of the implications of a strategic action (such as a plan or programme) or project, alone and in combination with other strategic actions and projects, on the integrity of a European Site in view of its conservation objectives.

Biodiversity and Flora and Fauna

Biodiversity is the variability among living organisms from all sources including inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are a part; this includes diversity within species, between species and of ecosystems' (United Nations Convention on Biological Diversity 1992).

Flora is all of the plants found in a given area.

Fauna is all of the animals found in a given area.

Environmental Problems

Annex I of Directive 2001/42/EC of the European Parliament and of the Council of Ministers, of 27th June 2001, on the assessment of the effects of certain Plans and programmes on the environment (the Strategic Environmental Assessment Directive) requires that information is provided on 'any existing environmental problems which are relevant to the plan or programme', thus, helping to ensure that the proposed strategic action does not make existing environmental problems worse.

Environmental problems arise where there is a conflict between current environmental conditions and ideal targets. If environmental problems are identified at the outset they can help focus attention on important issues and geographical areas where environmental effects of the plan or programme may be likely.

Environmental Vectors

Environmental vectors are environmental components, such as air, water or soil, through which contaminants or pollutants, which have the potential to cause harm, can be transported, coming into contact with human beings.

Mitigate

To make or become less severe or harsh.

Mitigation Measures

Mitigation measures are measures envisaged to prevent, reduce and, as fully as possible, offset any significant adverse impacts on the environment of implementing a human action, be it a plan, programme or project. Mitigation involves ameliorating significant negative effects. Where there are significant negative effects, consideration should be given in the first instance to preventing such effects or, where this is not possible, to lessening or offsetting those effects. Mitigation measures can be roughly divided into those that: avoid effects; reduce the magnitude or extent, probability and/or severity of effects; repair effects after they have occurred; and compensate for effects, balancing out negative impacts with other positive ones.

In the context of Article 6 of the Habitats Directive, mitigation measures are clearly distinguished from compensatory measures. Compensatory measures are intended to offset the negative effects of the plan or project so that the overall ecological coherence of the Natura 2000 Network is maintained.

Natural Heritage

The Heritage Act (1995) defines natural heritage as including flora, fauna, wildlife habitats, landscapes, seascapes, wrecks, geology, inland waterways, heritage gardens and parks.

Protected Structure

Protected Structure is the term used in the Planning and Development Act 2000 (as amended) and associated Regulations (as amended) to define a structure included by a planning authority in its Record of Protected Structures. Such a structure shall not be altered or demolished in whole or part without obtaining planning permission or confirmation from the planning authority that the part of the structure to be altered is not protected.

Recorded Monument

A monument included in the list and marked on the map which comprises the Record of Monuments and Places that is set out county by county under Section 12 of the National Monuments (Amendment) Act, 1994 by the Archaeological Survey of Ireland. The definition includes Zones of Archaeological Potential in towns and all other monuments of archaeological interest which have so far been identified. Any works at or in relation to a recorded monument requires two months' notice to the Department of Housing, Local Government and Heritage under Section 12 of the National Monuments (Amendment) Act, 1994.

Scoping

Scoping is the process of determining what issues are to be addressed, and setting out a methodology in which to address them in a structured manner appropriate to the plan or programme. Scoping is carried out in consultation with appropriate environmental authorities.

Strategic Environmental Assessment (SEA)

Strategic Environmental Assessment (SEA) is the formal, systematic evaluation of the likely significant environmental effects of implementing a plan or programme before a decision is made to adopt it.

Strategic Environmental Objective (SEO)

Strategic Environmental Objectives (SEOs) are methodological measures developed from policies which generally govern environmental protection objectives established at International, Community or Member State level and are used as standards against which the provisions of the Plan and the alternatives can be evaluated in order to help identify which provisions would be likely to result in significant environmental effects and where such effects would be likely to occur, if - in the case of adverse effects - unmitigated.

Section 1 SEA: Introduction and Benefits

1.1 Introduction

This is the Strategic Environmental Assessment (SEA) Environmental Report for the Newcastle West Local Area Plan 2023-2029. It has been undertaken by CAAS Ltd. on behalf of Limerick City and County Council. The purpose of this report is to provide a clear understanding of the likely environmental consequences of decisions regarding the adoption and implementation of the Plan.

Environmental assessment is a procedure that ensures that the environmental implications of decisions are taken into account before such decisions are made. *Environmental Impact Assessment*, or EIA, is generally used for describing the process of environmental assessment for individual projects, while *Strategic Environmental Assessment* or SEA is the term which has been given to the environmental assessment of plans and programmes, which help determine the nature and location of individual projects taking place. SEA is a systematic process of predicting and evaluating the likely significant environmental effects of implementing a proposed plan or programme, in order to ensure that these effects are adequately addressed at the earliest appropriate stages of decision-making in tandem with economic, social and other considerations.

The SEA has been undertaken in order to comply with European SEA Directive¹, which introduced the requirement that SEA be carried out on plans and programmes that are prepared for a number of sectors, including land use planning. SEA was determined as being required for the Plan by the Council considering the criteria specified in Schedule 1 of the Regulations. As Stage 2 Appropriate Assessment (see also Section 3.2) must be carried out for the Plan, SEA must also be

¹ Directive 2001/42/EC of the European Parliament and of the Council of Ministers, of 27th June 2001, on the assessment of the effects of certain plans and programmes on the environment, transposed into Irish Law through the European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004 (SI No. 435 of 2004), as amended by the European Communities (Environmental Assessment of Certain Plans and Programmes) (Amendment) Regulations 2011 (SI No. 200 of 2011), and the Planning and Development (SEA) Regulations 2004 (SI No. 436 of 2004), as amended by the Planning and Development (SEA) (Amendment) Regulations 2011 (SI No. 201 of 2011).

carried out (the SEA Directive, Article 3 para. 2, requires that SEA is carried out for certain plans and programmes that are being subject to Stage 2 AA).

1.2 Implications for the Planning Authority

SEA identifies the likely significant environmental effects of implementing the Plan. The findings of the SEA are expressed in this Environmental Report, an earlier version of which accompanied the Draft Plan on public display and has been updated following consultation, and identifies how environmental considerations were integrated into the Plan and how alternatives for the Plan were considered.

The planning authority has taken into account the findings of this report and other related SEA output during the Plan preparation process.

Following adoption of the Plan, an SEA Statement is prepared that summarises, inter alia, how environmental considerations have been integrated into the Plan.

1.3 Why SEA? The Benefits

SEA is the planning authority's and the public's guide to what are generally the best areas for development in the town.

SEA enables the planning authority to direct development towards robust, well-serviced and connected areas in the town – thereby facilitating the general avoidance of incompatible development in the most sensitive, least well-serviced and least well-connected areas, in the town and beyond.

SEA provides greater certainty to the public and to developers. Plans are more likely to be adopted without delays or challenges and planning applications are more likely to be granted permission. Environmental mitigation is more likely to cost less.

The Plan directs incompatible development away from the most sensitive areas in the town and focuses on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation.

Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services.

Compatible sustainable development in the town's sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.

Section 2 The Plan

2.1 Introduction

Limerick City and County Council has adopted a Local Area Plan (LAP) for Newcastle West under the Planning and Development Act 2000 (as amended). The Plan sets out an overall strategy for the proper planning and sustainable development over the years 2023-2029.

LAPs are required to be consistent with the Policy and Objectives of the Development Plan and its Core Strategy, as well as the National Planning Framework and Regional Spatial Economic Strategies.

The LAP should be read in conjunction with the Limerick Development Plan 2022-2028, which sets out the overarching development strategy for the administrative area of Limerick City and County Council. Where conflicting objectives arise between the Development Plan and the LAP, the objectives of the Development Plan shall take precedence.

2.2 Content of the Plan

The LAP sets out an overall strategy for the proper planning and sustainable development of Newcastle West in the context of Project Ireland 2040, the National Planning Framework, the Regional Spatial and Economic Strategy for the Southern Region and the Limerick Development Plan. It is informed by Ministerial Guidelines issued pursuant to Section 28 of the Act together with EU requirements regarding SEA and AA.

The LAP consists of a written statement and maps indicating objectives for zoning of land, residential and economic development and community infrastructure, safeguarding built and natural heritage, and potential opportunities for open space and recreation, active travel and transport, while outlining measures for environmental protection and climate action. The Core Strategy as set out in the Limerick Development Plan 2022 – 2028 sets out the quantum of lands identified for growth in Newcastle West, this in turn informs the land use zoning map of this Plan. The written statement generally takes precedence over maps should any discrepancy arise.

2.3 Strategic Vision

The Strategic Vision of the Plan is: 'To fulfil the role of Newcastle West as a Key Town, acknowledging its strategic location in the Southern Region. This will be achieved by delivering ambitious and sustainable growth and promoting a vibrant, living town centre, creating green and liveable communities, a diverse and innovative economy, while also building on the town's potential as a tourism destination. Whilst supporting the sustainable growth of Newcastle West, the cultural, natural and built environment must also be protected. The future development of Newcastle West will provide for low carbon, sustainable and consolidated growth in a coherent spatial manner.'

The Local Area Plan is based on a number of general objectives designed to improve the quality of life of the citizens, which the Council will endeavour to implement during the lifetime of the Plan. The development of Newcastle West focuses on sustainable growth of the built environment, employment generation, and the provision of community and social services together in a low carbon, compact, consolidated and connected pattern of development.

2.4 Strategic work undertaken by the Council to ensure contribution towards environmental protection and sustainable development

Far in advance of the placing of the Draft Plan on public display, Limerick City and County Council undertook various works in order to inform the preparation of the Plan. This included:

- A detailed population analysis to allow for, inter alia, the identification of the projected requirements for population

- growth and housing unit development; and
- A Local Transport Plan, which has informed and is appended to the Local Area Plan. The strategic aim of the Local Transport Plan is to provide for the planning and delivery of transport infrastructure and services in the town over the period of the Limerick Development Plan 2022-2028, the Newcastle West Local Area Plan 2023-2029, and beyond, which will:
 - Co-ordinate transport and land use planning;
 - Reduce the demand for travel and the reliance on the private car in favour of more sustainable forms of transport;
 - Provide a safe and sustainable transport network; and
 - Identify strategic walking and cycling infrastructure to prioritise for funding.

The findings of this strategic work have been integrated into the Plan and will contribute towards both environmental protection and management and sustainable development.

The undertaking of this SEA process was part of this strategic work and contributed towards the integration of environmental considerations into individual Plan provisions as detailed in Section 9 of this report.

2.5 Relationship with other relevant Plans and Programmes

It is acknowledged that many of the major issues affecting Newcastle West's development are contingent on national policy and government funding.

The Plan sits within a hierarchy of statutory documents setting out public policy for, among other things, land use planning, infrastructure, sustainable development, tourism, environmental protection and environmental management. The Plan must comply with relevant higher-level strategic actions and may, in turn, guide lower-level strategic actions. These documents include plans and programmes such as those detailed in

Appendix I² (see also, Section 4 "Environmental Baseline", Section 5 "Strategic Environmental Objectives", Section 6 "Description of Alternatives" and Section 9 "Mitigation Measures"). These documents have been subject to their own environmental assessment processes, as relevant.

The National Planning Framework (NPF) sets out Ireland's planning policy direction up to 2040. The NPF is to be implemented through Regional Spatial and Economic Strategies (RSEs) and lower tier Development Plans and Local Area Plans. The RSE for the Southern Region sets out objectives for land use planning, tourism, infrastructure, sustainable development, environmental protection and environmental management that have been subject to environmental assessment and must be implemented through the Limerick Development Plan 2022-2028, which sets out the overarching development strategy for the administrative area of Limerick City and County Council, and the Local Area Plan.

In order to be realised, projects included in the Local Area Plan (in a similar way to other projects from any other sector) will have to comply, as relevant, with various legislation, policies, plans and programmes (including requirements for lower-tier Appropriate Assessment, Environmental Impact Assessment and other licencing requirements as appropriate) that form the statutory decision-making and consent-granting framework.

² Appendix I is not intended to be a full and comprehensive review of EU Directives, the transposing regulations or the regulatory framework for environmental protection and management. The information is not exhaustive and it is recommended to consult the Directive, Regulation, Plan or Programme to become familiar with the full details of each.

Section 3 SEA Methodology

3.1 Introduction to the Iterative Approach

The preparation of the Plan, SEA, AA and SFRA have taken place concurrently and the findings of the SEA, AA and SFRA have informed the Plan.

3.2 Appropriate Assessment and Integrated Biodiversity Impact Assessment

3.2.1 Appropriate Assessment

Appropriate Assessment (AA) Screening and Stage 2 AA have been undertaken alongside the Plan. The requirement for AA is provided under the EU Habitats Directive (Directive 1992/43/EEC).

As part of the AA Screening process, the Council determined that it could not be excluded, on the basis of objective information, that the emerging Draft Plan, individually, or in combination with other plans and projects would have a likely adverse effect on the integrity of a European Site. Therefore, Stage 2 AA was required.

The conclusion of the Stage 2 AA is that, following the application of mitigation, the Plan will not affect the integrity of the European Sites, alone or in combination with other plans or projects.³

The preparation of the Plan, SEA and AA has taken place concurrently and the findings of the AA have informed the SEA.

³ Except as provided for in Article 6(4) of the Habitats Directive, viz. There must be:
 (a) no alternative solution available,
 (b) imperative reasons of overriding public interest for the plan to proceed; and
 (c) adequate compensatory measures in place.

3.2.2 Integrated Biodiversity Impact Assessment

Many elements of Integrated Biodiversity Impact Assessment as detailed in the EPA's (2013) Practitioner's Manual have been aligned with in the undertaking of the SEA for the Plan. These include:

Scoping

- Biodiversity-relevant issues were identified for consideration at scoping stage and these are now detailed in Section 4.
- Reference to a zone of influence is provided at Section 4.

Baseline

- Biodiversity data sources relevant for this local level assessment have been identified and datasets collated/gathered.
- The biodiversity baseline addresses designated sites and other habitats and species of ecological value.
- AA information has been incorporated into the SEA baseline.

Alternatives

- Impacts upon biodiversity are considered under each of the alternatives and potential conflicts can be mitigated.

Impact assessment

- Effects on biodiversity are identified and assessed and the AA considers the interrelationship between biodiversity and potential effects on European Sites.

Mitigation and monitoring

- Taking into account all measures contained within the Plan, all the proposed mitigation measures deriving from the various processes were generally consistent and compatible.
- Indicators and associated targets have been included in SEA for monitoring European Sites.

Reporting

- This SEA ER addresses all biodiversity-related considerations relevant for this level of assessment.
- This SEA ER contains all biodiversity-relevant information, data, figures and maps relevant for this level of assessment.
- This SEA ER has been informed by the AA findings.

Communication and consultation

- Submissions received have been taken on board.
- The preparation of the Plan, SEA and AA have taken place concurrently and the findings of the AA have informed the SEA.

3.3 Strategic Flood Risk Assessment

A Strategic Flood Risk Assessment (SFRA) document accompanies this SEA Environmental Report and the Plan. Requirements in relation to SFRA are provided under 'The Planning System and Flood Risk Management Guidelines for Planning Authorities' (Department of Environment and Office of Public Works, 2009) and associated Department of the Environment, Community and Local Government Circular PL2/2014.

Flood risk management and drainage provisions are already in force through the Development Plan and related provisions have been integrated into the LAP. In addition, land use zoning contained within the Plan has been informed by the SFRA process and associated delineation of flood risk zones.

3.4 Scoping

The scope of environmental issues to be dealt with by the SEA together with the level of detail to which they are addressed was broadly decided upon taking into account the collection of environmental baseline data and input from environmental authorities. Scoping allowed the SEA to become focused upon key issues relevant to the environmental components that are specified under the SEA Directive⁴.

All relevant environmental authorities identified under the SEA Regulations as amended, were sent SEA scoping notices by the Council indicating that submissions or observations in relation to the scope and level of detail of the information to be included in the environmental report could be made to the Council⁵.

As the Plan is not likely to have significant effects on the environment in another Member

⁴ These components comprise biodiversity, fauna, flora, population, human health, soil, water, air, climatic factors, material assets, cultural heritage including architectural and archaeological heritage, landscape and the interrelationship between the above factors.

⁵ The following authorities were notified: Environmental Protection Agency; Department of Environment, Climate and Communications; Department of Agriculture, Food and the Marine; Department of Housing, Local Government and Heritage; Clare County Council; Kerry County Council; Cork County Council; and Tipperary County Council.

State, transboundary consultations as provided for by Article 7 of the SEA Directive were not undertaken.

Submissions made by the environmental authorities influenced the scope of the assessment undertaken, the findings of which are included in this report.

3.5 Alternatives

The SEA Directive requires that reasonable alternatives (taking into account the objectives and the geographical scope of the plan or programme) are identified, described and evaluated for their likely significant effects on the environment. In accordance with this requirement, alternatives for the Plan are identified and assessed in Sections 6 and 7.

3.6 Environmental Report

This SEA Environmental Report predicts and evaluates the likely environmental effects of implementing the Plan and relevant alternatives. The Environmental Report provides the Council, stakeholders and the public with a clear understanding of the likely environmental consequences of the Plan.

Mitigation measures to prevent or reduce significant adverse effects posed by the Plan are identified in Section 9 - these have been integrated into the Plan.

An earlier version of this report was report was updated in order to take account of changes that were made to the original, Draft Plan that was placed on public display

The Environmental Report is required to contain the information specified in Schedule 2B of the Planning and Development (Strategic Environmental Assessment) Regulations 2004 (SI No. 436 of 2004), as amended (see Table 3.1).

No significant difficulties have been encountered during the undertaking of the assessment.

3.7 SEA Statement

On finalisation of the Plan, an SEA Statement is prepared that includes information on:

- How environmental considerations have been integrated into the Plan, highlighting the main changes to the Plan that resulted from the SEA process;
- How the SEA Environmental Report and consultations have been taken into account, summarising the key issues raised in consultations and in the Environmental Report indicating what action was taken in response;
- The reasons for choosing the Plan in the light of the other alternatives, identifying the other alternatives considered, commenting on their potential effects and explaining why the Plan as adopted was selected; and
- The measures decided upon to monitor the significant environmental effects of implementing of the Plan.

Table 3.1 Checklist of Information included in this Environmental Report

Information Required to be included in the Environmental Report	Corresponding Section of this Report, including
(A) Outline of the contents and main objectives of the plan or programme, and of its relationship with other relevant plans and programmes	Sections 2, 5 and 8
(B) Description of relevant aspects of the current state of the environment and the evolution of that environment without implementation of the plan or programme	Section 4
(C) Description of the environmental characteristics of areas likely to be significantly affected	Sections 4, 7 and 8
(D) Identification of any existing environmental problems which are relevant to the plan or programme, particularly those relating to European protected sites	Section 4
(E) List of environmental protection objectives, established at international, EU or National level, which are relevant to the plan or programme and describe how those objectives and any environmental considerations have been taken into account when preparing the Plan	Sections 5, 7, 8, 9 and Appendix I
(F) Describe the likely significant effects on the environment	Sections 7 and 8
(G) Describe any measures envisaged to prevent, reduce and as fully as possible offset any significant adverse environmental effects of implementing the plan or programme	Section 9
(H) Give an outline of the reasons for selecting the alternatives considered, and a description of how the assessment was undertaken (including any difficulties)	Sections 3, 6, 7 and 8
(I) A description of proposed monitoring measures	Section 10
(J) A non-technical summary of the above information	Appendix II Non-Technical Summary
(K) Interrelationships between each environmental topic	Addressed as it arises within each Section

Section 4 Environmental Baseline

4.1 Introduction

Reflecting the specifications in the SEA Directive, the relevant aspects of the current state of the environment for the following environmental components are described in this section: biodiversity and flora and fauna, population and human health, soil, water, air and climatic factors, material assets, cultural heritage including architectural and archaeological heritage, landscape and the interrelationship between the above factors.

This description includes information that is relevant to lower tier planning, environmental assessments and decision-making⁶.

4.2 National Reporting on the Environment

The EPA's "*Ireland's Environment – An Assessment 2020*" report provides an integrated assessment of the overall quality of Ireland's environment, the pressures being placed on it and the societal responses to current and emerging environmental issues. This report has informed various parts of the environmental baseline provided below. The key environmental challenges or messages identified by the report are:

Environmental Policy Position

A national policy position for Ireland's Environment.

Full implementation

Full implementation of existing environmental legislation and a review of the governance around the coordination on environmental protection across public bodies.

Health and Wellbeing

Protecting the Environment is an Investment in Our Health and Wellbeing.

Climate

Systemic change is required for Ireland to become the climate-neutral and climate resilient society and economy that it

aspires to be.

Air Quality

Adoption of measures to meet the World Health Organization air quality guideline values should be the target to aim for in the Clean Air Strategy.

Nature

Safeguard nature and wild places as a national priority and to leave a legacy for future generations.

Water Quality

Improve the water environment and tackle water pollution locally at a water catchment level.

Marine

Reduce the human-induced pressures on the marine environment.

Clean Energy

Ireland needs to move rapidly away from the extensive use of fossil fuels to the use of clean energy systems.

Environmentally Sustainable Agriculture

An agriculture and food sector that demonstrates validated performance around producing food with a low environmental footprint.

Water Services

Drinking water and wastewater infrastructure must meet the needs of our society.

Circular Economy

Move to a less wasteful and circular economy where the priority is waste prevention, reuse, repair and recycling.

Land Use

Promote integrated land-mapping approaches to support decision-making on sustainable land use.

The report highlights that high-quality green and blue spaces are not just for nature but are for peoples' health and wellbeing, particularly in the context of an increasingly urban society and increasing settlement densities.

4.3 Sustainable Development Goals

Implementation of the Plan will contribute towards efforts to achieve a number of the 17 Sustainable Development Goals of the 2030 Agenda for Sustainable Development, which were adopted by world leaders in 2015 at a United Nations Summit and came into force in 2016. These Goals include:

⁶ Note that Article 5 of the SEA Directive, in accordance with the established European principle of subsidiarity, requires that the Environmental Report includes the information that may reasonably be required taking into account, inter alia, the extent to which certain matters are more appropriately assessed at different levels in that process in order to avoid duplication of the assessment.

- Goal 3. Ensure healthy lives and promote well-being for all at all ages.
- Goal 6. Ensure availability and sustainable management of water and sanitation for all.
- Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all.
- Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.
- Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.
- Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable.
- Goal 12. Ensure sustainable consumption and production patterns.
- Goal 13. Take urgent action to combat climate change and its impacts.
- Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

4.4 Likely Evolution of the Environment in the Absence of a new Plan

In the absence of a new Local Area Plan, the framework for development across the Plan area would be provided by the Development Plan and other related documents. There would be no Local Area Plan to provide additional detail beyond that provided already through the existing planning framework as how to achieve sustainable development and environmental protection and management in the town.

As a result, there would be a decreased likelihood in the extent, magnitude and frequency of the positive environmental effects identified by this assessment occurring, including:

- Contribution towards protection of ecology (including designated sites, ecological connectivity, habitats) by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond.
- Contribution towards the maintenance of existing green infrastructure and associated ecosystem services, listed species, ecological connectivity and non-designated habitats.
- Contribution towards protection and/or maintenance of biodiversity and flora and fauna by contributing towards the protection of

- natural capital including the environmental vectors of air, water and soil. Biodiversity and flora and fauna includes biodiversity in designated sites (including European Sites and Wildlife Sites) and Annexed habitats and species (including birds and bats), listed/protected species, ecological connectivity and non-designated habitats (including terrestrial and aquatic habitats), and disturbance to biodiversity and flora and fauna – including terrestrial and aquatic biodiversity and flora and fauna.
- Sustains existing sustainable rural management practices – and the communities who support them – to ensure the continuation of long-established managed landscapes and the flora and fauna that they contain.
- Promotion of economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management.
- Contribution towards appropriate provision of infrastructure and services to existing population and planned growth by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond
- Contribution towards the protection of human health by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond.
- Contributes towards protection of human health as a result of contributing towards the protection of natural capital including environmental vectors, including air and water.
- Contribution towards the protection of soils (including those used for agriculture) and designated sites of geological heritage by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond.
- Contribution towards the protection of the environment from contamination the highest standards of remediation, and where appropriate to consultations with the EPA and other relevant bodies, will be required to resolve any instances of environmental pollution created by contaminated land.
- Contribution towards the protection of water by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond.
- Contributions towards the protection of water resources including the status of surface and groundwaters and water-based designations.

- Contribution towards flood risk management and appropriate drainage.
- Contribution towards appropriate provision of infrastructure and services to existing population and planned growth by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond.
- Contribution towards compliance with national and regional water services and waste management policies.
- Contribution towards increase in renewable energy use by facilitating renewable energy and electricity transmission infrastructure developments.
- Contribution towards limits in increases in energy demand from the transport sector by facilitating sustainable compact growth.
- Contribution towards reductions in average energy consumption per capita including promoting energy efficient buildings, retrofitting, smart buildings and grids.
- Contribution towards climate mitigation and adaptation by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond.
- In combination with other plans, programmes etc., contribution towards the objectives of the wide policy framework relating to climate mitigation and adaptation, and associated contribution towards maintaining and improving air quality and managing noise levels, including through measures relating to:
 - Sustainable compact growth;
 - Sustainable mobility, including walking, cycling and public transport;
 - Drainage, flood risk management and resilience;
 - Sustainable design, energy efficiency and green infrastructure.
- Contributes towards protection of cultural heritage elsewhere by facilitating development within the Plan area.
- Contributes towards protection of cultural heritage within the Plan area by facilitating brownfield development and regeneration.
- Contributes towards protection of wider landscape and landscape designations by facilitating development within the Plan area.
 - Habitat loss, fragmentation and deterioration, including patch size and edge effects; and
 - Disturbance (e.g. due to noise and lighting along transport corridors) and displacement of protected species such as birds (e.g. swifts and owls) and bats.

Furthermore, and as a result, there would be an increased likelihood in the extent, magnitude and frequency of the adverse environmental effects identified by this assessment occurring, including:

- Arising from both construction and operation of development and associated infrastructure:
 - Loss of/damage to biodiversity in designated sites (including European Sites and Wildlife Sites) and Annexed habitats and species, listed species, ecological connectivity and non-designated habitats; and disturbance to biodiversity and flora and fauna;

- Potential adverse effects arising from flood events.
- Potential interactions if effects arising from environmental vectors.
- Potential adverse effects on the hydrogeological and ecological function of the soil resource, including as a result of development on contaminated lands.
- Potential for riverbank erosion.
- Potential adverse effects upon the status of water bodies and entries to the WFD Register of Protected Areas (ecological and human value), arising from changes in quality, flow and/or morphology.
- Increase in flood risk and associated effects associated with flood events.
- Failure to provide adequate and appropriate waste water treatment (water services infrastructure and capacity ensures the mitigation of potential conflicts).
- Failure to adequately treat surface water run-off that is discharged to water bodies (water services infrastructure and capacity ensures the mitigation of potential conflicts).
- Failure to comply with drinking water regulations and serve new development with adequate drinking water (water services infrastructure and capacity ensures the mitigation of potential conflicts).
- Increases in waste levels.
- Potential impacts upon public assets and infrastructure.
- Interactions between agricultural waste and soil, water, biodiversity and human health – including as a result of emissions of ammonia from agricultural activities (e.g. manure handling, storage and spreading) and the production of secondary inorganic particulate matter.
- Potential conflict between development under the Plan and aiming to reduce carbon emissions in line with local, national and European environmental objectives.
- Potential conflicts between transport emissions, including those from cars, and air quality.
- Potential conflicts between increased frequency of noise emissions and protection of sensitive receptors.
- Potential conflicts with climate adaptation measures including those relating to flood risk management.
- Potential effects on protected and unknown archaeology and protected architecture arising from construction and operation activities.
- Occurrence of adverse visual impacts and conflicts with the appropriate protection of designations relating to the landscape.

4.5 Natural Capital and Ecosystem Services

Natural capital comprises renewable and non-renewable resources (e.g. plants, animals, air, water, soils, minerals) that combine to yield a flow of ecosystem services that provide benefits to people. These benefits can include clean air and water, a stable climate, protection from floods, food, resources for fuel, building materials, clothes and medicines, recreation. Managing natural capital so that it can continue to deliver the ecosystem services that provide these benefits is important in order to ensure sustainable development. Unmanaged natural capital risks the continued degradation and depletion of these assets, and in turn, of their capacity to provide the economy and society with the ecosystem benefits that they depend on. These services also regulate climate, regulate water flows (e.g. through wetlands and forests), sequester and store carbon in peatlands and improve soil quality for crops.

In recognition of the need to manage natural capital, provisions have been integrated into the Local Area Plan and the associated higher-tier Limerick Development Plan 2022-2028 that will contribute towards management of air quality, noise pollution, light pollution, water quality and integrated catchment management.

Ecosystems are multifunctional communities of living organisms interacting with each other and their environment. Ecosystems provide a series of services for human well-being (ecosystem services) either directly or indirectly contributing towards human wellbeing. There are four main types; provisioning, regulating, supporting and cultural services. Provisioning services are the products obtained from ecosystems such as food, fresh water, wood, fibre, genetic resources and medicines. Regulating services are defined as the benefits obtained from the regulation of ecosystem processes such as climate regulation, natural hazard regulation, water purification and waste management, pollination or pest control. Support services highlight the importance of ecosystems to provide habitat for migratory species and to maintain the viability of gene-pools. Cultural services include non-material benefits that people obtain from ecosystems such as

spiritual enrichment, intellectual development, recreation and aesthetic values⁷.

In preparing the Plan and developing policy objectives, the Council have followed these ecosystem services approach principles (including through the strategic aims and various policy objectives):

- a) Consideration of natural systems - by using knowledge of interactions in nature and how ecosystems function.
- b) Taking into account of the services that ecosystems provide - including those that underpin social and economic well-being, such as flood and climate regulation, resources for food, fibre or fuel, or for recreation, culture and quality of life.
- c) Involving people - those who benefit from the ecosystem services and those managing them need to be involved in decisions that affect them.

The following natural capital and ecosystem services issues are relevant to this SEA and have been taken into account in the provisions of the Local Area Plan and the associated higher-tier Limerick Development Plan 2022-2028:

- Pollination;
- Air quality;
- Noise pollution;
- Light pollution;
- Water quality and integrated catchment management including interactions with soil;
- Soil and vegetation carbon, which helps to regulate greenhouse gas emissions;
- Soil/geological storage of water, contributing towards flood control;
- Land supporting food production; and
- Natural resources supporting energy production and recreation.

4.6 Biodiversity and Flora and Fauna

4.6.1 Overview

Information on biodiversity and flora and fauna that is relevant to project planning and development and associated environmental assessment and administrative consent of projects includes that on designated ecological sites and protected species, ecological connectivity (including stepping stones and corridors) and non-designated habitats.

Key ecological sensitivities within and surrounding the Plan area include:

⁷ <https://biodiversity.europa.eu/topics/ecosystem-services>

- Aquatic and riverine ecology associated with the **River Arra, River Darr and River Mash**, as well as associated tributaries and riparian buffer zones;
- Designated sites located less than 5 km to the west, south-west and north-west of the Plan area, including: **Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle Special Protected Area; Glenastar Wood proposed Natural Heritage Area; and Lower River Shannon Special Area of Conservation**; and
- Various woodlands, trees⁸, parks, gardens, hedgerows, pollinator sites and lands used for agriculture within and surrounding the Plan area, the **Limerick Greenway and Castlepark Demesne** (a mature parkland of over 100 acres to the west of the town that is of value to biodiversity and as an amenity resource) providing habitats for flora and fauna and facilitating linkages and corridors to the surrounding countryside.

The following information is relevant to ecological networks and connectivity and non-designated habitats:

- CORINE land cover mapping (including areas likely to contain a habitat listed in Annex 1 of the Habitats Directive)⁹;
- Watercourses, wetlands and peatlands;
- The EPA's Framework National Ecological Network for Ireland¹⁰; and
- Other sites of high biodiversity value or ecological importance as identified by, for example, the Department of Agriculture, Food and the Marine (e.g. badger sets), relevant datasets from the National Biodiversity Data Centre and BirdWatch Ireland's 'Important Bird Areas' (Crowe et al., 2009).

Ecological networks are important in connecting areas of local biodiversity with each other and with nearby designated sites so as to prevent islands of habitat from being isolated entities. They are composed of linear features, such as treelines, hedgerows and rivers/streams, which provide corridors or stepping stones for wildlife species moving within their normal range. They are important

⁸ There are a number of tree groups and freestanding trees along the Arra River Walk, by the riverside at Desmond Hall, along the riverbank of the Daar and in the Demesne.

⁹ The CORINE land cover mapping classifies land cover under various headings. This dataset allows for the identification of lands that are likely to be most valuable to biodiversity including those which are likely to contain a habitat listed in Annex 1 of the Habitats Directive e.g., natural grasslands, peat bogs, salt marshes. CORINE Land Cover (CLC) is a map of the European environmental landscape based on interpretation of satellite images. Land cover is the observed physical cover, as seen from the ground or through remote sensing, including for example natural or planted vegetation, water and human constructions which cover the earth's surface.

¹⁰ The EPA's Framework National Ecological Network provides a classification of the relative importance of areas by virtue of the biodiversity and flora that they contain and the connectivity they provide. Many of the areas identified are corridors.

for the migration, dispersal and genetic exchange of species of flora and fauna particularly for mammals, especially for bats and small birds and facilitate linkages both between and within designated ecological sites, the non-designated surrounding countryside and urban areas.

Article 10 of the Habitats Directive recognises the importance of ecological networks as corridors and stepping stones for wildlife, including for migration, dispersal and genetic exchange of species of flora and fauna. The Directive requires that ecological connectivity and areas of ecological value outside the Natura 2000 network of designated ecological sites are maintained.

Man-made habitats within the Plan area can also include important biodiversity features. Gardens provide habitats for a range of wildlife including various bird species, invertebrates such as bees and butterflies and mammals such as hedgehogs, mice, rats and foxes. These species move around between gardens using hedgerows and vegetated areas. These urban green spaces are of importance as they form part of a network of green spaces across the Plan area including gardens, parks, graveyards, amenity walks, old railway lines and patches of woodland and scrub within which animals and plants continue to thrive.

Ecological islands or areas of habitat that are not connected to surrounding ecologically valuable habitats can also be important.

The zone of influence of the Plan beyond the Plan area with respect to impacts upon ecology via surface waters – including designated ecology – can be estimated to be areas within 15 km of the Plan area and all downstream areas of catchments which drain the area.

4.6.2 European Sites

European sites comprise Special Areas of Conservation¹¹ (SACs) and Special Protection

¹¹ SACs have been selected for protection under the European Council Directive on the conservation of natural habitats and of wild fauna and flora (92/43/EEC) due to their conservation value for habitats and species of importance in the European Union. The Habitats Directive seeks to establish Natura 2000, a network of protected areas throughout the EU. It is the responsibility of each member state to designate SACs to protect habitats and species, which, together with the SPAs designated under the 1979 Birds Directive, form Natura 2000. The European Communities (Birds and Natural Habitats) Regulations 2011 consolidate the European Communities (Natural Habitats) Regulations 1997 to 2005 and the

Areas¹² (SPAs). Such sites within a 15 km buffer around the Plan area are mapped on Figure 4.1. There are no SACs or SPAs designated within the Plan area, however there are a total of six European sites (four SACs and two SPAs) within 15 km of the Plan boundary (as listed below and shown on Figure 4.1):

- Lower River Shannon SAC (Site Code: 0002165)¹³;
- Askeaton Fen SAC (Site Code: 002279)¹⁴;
- Blackwater River (Cork/Waterford) SAC (Site Code: 002170)¹⁵;
- Barrigone SAC (Site Code: 000432)¹⁶;
- Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA (Site Code: 004161)¹⁷; and
- River Shannon and River Fergus Estuaries SPA (Site Code: 004077)¹⁸.

There are no other hydrologically connected European sites within the wider region beyond 15 km buffer zone (i.e. downstream of the Plan boundary).

European Communities (Birds and Natural Habitats) (Control of Recreational Activities) Regulations 2010. The Regulations have been prepared to address several judgments of the Court of Justice of the European Union (CJEU) against Ireland, notably cases C-418/04 and C-183/05, in respect of failure to transpose elements of the Birds Directive and the Habitats Directive into Irish law.

¹² SPAs have been selected for protection under the 1979 European Council Directive on the Conservation of Wild Birds (79/409/EEC) - referred to as the Birds Directive - due to their conservation value for birds of importance in the EU.

¹³ Sensitive features include: alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior*; Atlantic salmon; bottlenose dolphin; perennial vegetation of stony banks; coastal lagoons; Atlantic salt meadows; freshwater pearl mussel; brook lamprey; Mediterranean salt meadows; estuaries; mudflats and sandflats not covered by seawater at low tide; otter; sandbanks which are slightly covered by sea water all the time; reefs; river lamprey; salicornia and other annuals colonising mud and sand; large shallow inlets and bays; sea lamprey; vegetated sea cliffs of the Atlantic and Baltic coasts; water courses of plain to montane levels with the *Ranunculus fluitantis* and *Callitriche-Batrachion* vegetation; and molinia meadows on calcareous, peaty or clayey-silt-laden soils.

¹⁴ Sensitive features include alkaline fens and calcareous fens with *Cladium mariscus* and species of the *Caricion davallianae*.

¹⁵ Sensitive features include: white-clawed crayfish; estuaries; sea lamprey; river lamprey; salicornia and other annuals colonising mud and sand; alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior*; twaite shad; water courses of plain to montane levels with the *Ranunculus fluitantis* and *Callitriche-Batrachion* vegetation; brook lamprey; mudflats and sandflats not covered by seawater at low tide; freshwater pearl mussel; Killarney fern; Mediterranean salt meadows; old sessile oak woods with *Ilex* and *Blechnum* in the British Isles; otter; perennial vegetation of stony banks; Atlantic salmon; and Atlantic salt meadows.

¹⁶ Sensitive features include: limestone pavements; marsh fritillary; juniperus communis formations on heaths or calcareous grasslands; and semi-natural dry grasslands and scrubland facies on calcareous substrates.

¹⁷ Sensitive features include hen harrier.

¹⁸ Sensitive features include: black-tailed godwit; golden plover; greenshank; plover; ringed plover; scaup; shelduck; shoveler; teal; wetland and waterbirds; whooper swan; wigeon; knot; lapwing light-bellied brent goose; pintail; redshank; bar-tailed godwit; black-headed gull; cormorant; curlew; and dunlin.

For more detail on European sites please refer to the AA Natura Impact Report that accompanies the Plan and this SEA Environmental Report.

4.6.3 Natural Heritage Areas and Proposed Natural Heritage Areas

Natural Heritage Areas (NHAs) are designated due to their national conservation value for ecological and/or geological/geomorphological heritage. They cover nationally important semi-natural and natural habitats, landforms or geomorphological features, wildlife plant and animal species or a diversity of these natural attributes. NHAs are designated under the Wildlife (Amendment) Act 2000. Proposed NHAs (pNHAs) were published on a non-statutory basis in 1995, but have not since been statutorily proposed or designated.

There are total of three NHAs and seven pNHAs designated within a 15 km buffer of the Plan area, as mapped on Figure 4.2 and listed on Table 4.1. There are no NHAs or pNHAs designated within the Plan boundary.

Table 4.1 NHAs and pNHAs within 15 km of the Plan area

NHAs and pNHAs		
Designation	Site Code	Site Name
NHA	002454	Lough Gay Bog
	002399	Carrigkerry Bogs
	002361	Moyreen Bog
pNHA	001434	Heathfield Wood
	001431	Glenastar Wood
	000430	Ardagh Church, Newcastle West (disused)
	001425	Ballymorrisheen Marsh
	000432	Barrigone
	000435	Inner Shannon Estuary – South Shore
	001429	Cappagh Fen

4.6.4 Land Cover

Land cover is the observed physical cover, as seen from the ground or through remote sensing, including for example natural or planted vegetation, water and human constructions which cover the earth's surface.

The CORINE 2018¹⁹ mapping (as shown on Figure 4.3) identifies the land cover of central parts of the Plan area as urban fabric. Surrounding areas are identified as either pastures or lands principally occupied by agriculture with significant areas of natural vegetation.

There are no areas likely to contain Annex I habitats occurring within the Plan area.

4.6.5 Register of Protected Areas

In response to the requirements of the Water Framework Directive (WFD) a number of water bodies or parts of water bodies that must have extra controls on their quality by virtue of how their waters are used by people and by wildlife have been listed on Registers of Protected Areas (RPAs). Entries to the RPAs within and adjacent to the Plan area, designated by virtue of their value to biodiversity include a number of water-dependent habitats within the area that have been listed on RPAs relating to biodiversity – these relate to designated SACs and SPAs (see Section 4.6.2) and associated surface and groundwaters.

¹⁹ The CORINE (Co-ordinated Information on the Environment) land cover data series was devised as a means of compiling geo-spatial environmental information in a standardised and comparable manner. CORINE has become a key data source for informing environmental and planning policy on a national and European level. The main land cover type in Ireland is agricultural land including forestry, which accounts for two-thirds of the national landmass. Most of this is permanent grassland pastures. Peatlands and wetlands are the second most widespread land cover type, covering almost one-fifth of the country. While forested areas cover about one-tenth of the country. Despite rapid development in the past two decades, Ireland's landscape is predominantly rural and agricultural.

RPAs designated by virtue of their value to humans are addressed under Section 4.9.7.

4.6.6 Existing Problems

Ireland's Article 17 report on the Status of EU Protected Habitats and Species in Ireland (DCHG, 2019) identifies various Irish, EU-protected habitats and species to be of unfavourable status and many to be still declining, although it also identifies that a range of positive actions are underway. Categories for pressures and threats on Ireland's habitats and species identified by the report comprise:

- Agriculture;
- Forestry;
- Extraction of resources (minerals, peat, non-renewable energy resources);
- Energy production processes and related infrastructure development;
- Development and operation of transport systems;
- Development, construction and use of residential, commercial, industrial and recreational infrastructure and areas;
- Extraction and cultivation of biological living resources (other than agriculture and forestry);
- Military action, public safety measures, and other human intrusions;
- Alien and problematic species;
- Mixed source pollution;
- Human-induced changes in water regimes;
- Natural processes (excluding catastrophes and processes induced by human activity or climate change);
- Geological events, natural catastrophes;
- Climate change; and
- Unknown pressures, no pressures and pressures from outside the Member State.

The Plan includes measures to contribute towards the protection of biodiversity and flora and fauna and associated ecosystem services.

Previous changes in land uses arising from human development have resulted in a loss of biodiversity and flora and fauna; however, legislative objectives governing biodiversity and fauna were not identified as being conflicted with.

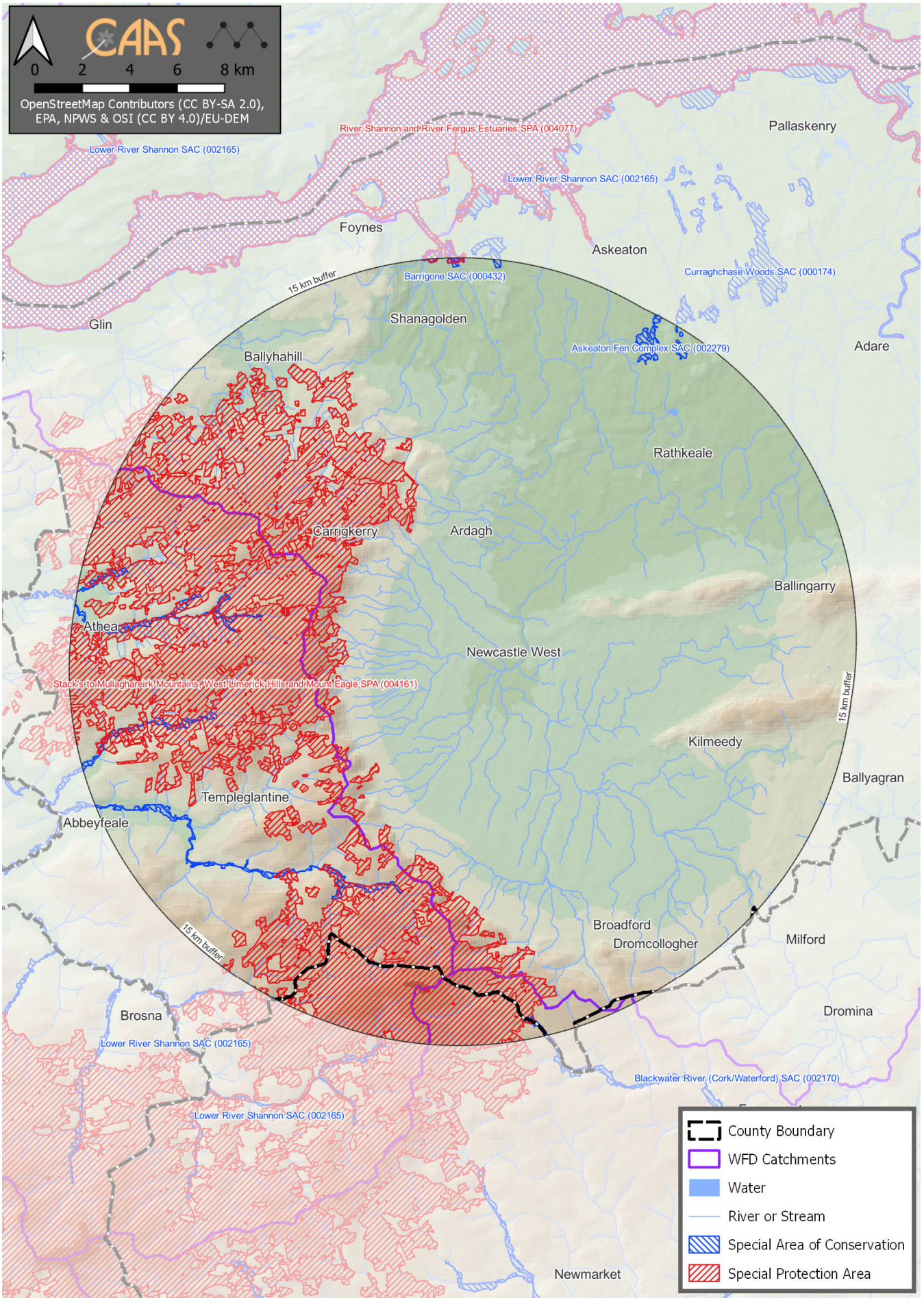


Figure 4.1 European Sites within and within a 15 km buffer of Newcastle West Plan area

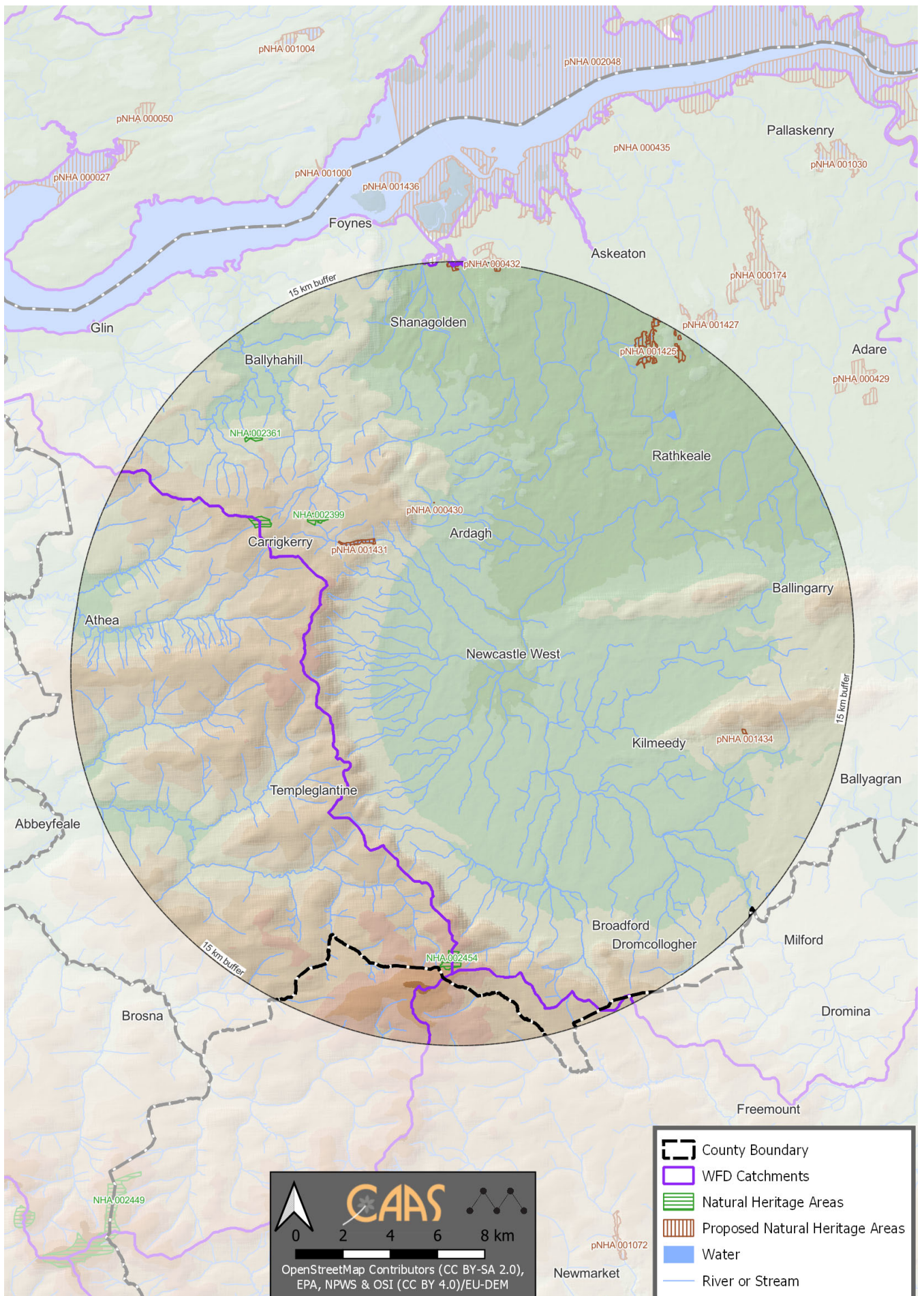


Figure 4.2 NHAs and pNHAs within a 15 km buffer of Newcastle West Plan area



Figure 4.3 CORINE Land Cover Mapping 2018

4.7 Population and Human Health

4.7.1 Population

Census 2016 recorded a population of 6,619 persons in Newcastle West, an increase of 292 persons from the 2011 Census figure.²⁰ The Core Strategy of the Limerick Development Plan 2022-2028 predicts a population growth of 1,988 persons by 2028 for the Plan area²¹.

Newcastle West is the largest town in County Limerick, identified as a Key Town in the in the Southern Regional Spatial and Economic Strategy and the Limerick Development Plan 2022-2028, presenting opportunities for future economic development and employment growth with 30% growth over the 2016 population base allocated to the town.

The Core Strategy of the Limerick Development Plan 2022-2028 predicts a population growth up to 8,607 persons in 2028 for the Plan area. Newcastle West will play a critical role in ensuring a consolidated spread of growth beyond Limerick City and Suburbs to the sub-regional level.²²

The population provided for in the Plan will interact with various environmental components. Potential interactions include:

- Recreational and development pressure on habitats and landscapes;
- Contribution towards increase in demand for waste water treatment at the municipal level;
- Contribution towards increase in demand for water supply and associated potential impact of water abstraction;
- Potential interactions in flood-sensitive areas; and
- Potential effects on water quality.

4.7.2 Human Health

With regard to human health, impacts relevant to the SEA are those which arise as a result of interactions with environmental vectors (i.e. environmental components such as air, water or soil through which contaminants or pollutants, which have the potential to cause harm, can be transported so that they come into contact with human beings). Hazards or

nuisances to human health can arise as a result of exposure to these vectors e.g. interactions with human health that could occur in urban locations that experience high levels of traffic congestion and associated particulate matter and noise emissions to air.

Emission limits for discharges to air, soil and water are set with regards to internationally recognised exposure limit values. These are generally set to be many times the safe exposure limit - in order to provide protection. In the event that a plan or programme began to have adverse health effects on surrounding populations it is likely that it would have been identified as being in breach of such emission standards at a very early stage - and long before the manifestation of any adverse health effects in the population.

These factors have been considered with regard to the description of: the baseline of each environmental component; and the identification and evaluation of the likely significant environmental effects of implementing the Plan.

4.7.3 Existing Problems

The number of homes within the Plan area with radon levels above the reference level is within the normal range experienced in other locations across the country²³.

Parts of the Plan area are vulnerable to adverse effects from changes in the occurrence of severe rainfall events and associated flooding from surface water. Flooding in certain circumstances could pose a risk to human health. There is historic and predictive evidence of flooding within the Plan area (see Section 4.9.8).

Also refer to the other sections of this report referred to above with respect interactions with other environmental components.

²⁰ www.cso.ie

²¹ Limerick Development Plan 2022-2028

²² Limerick Development Plan 2022-2028

²³ The greatest health risk from radiation in Ireland is caused by radon. The presence of radon gas, a naturally occurring radioactive gas that originates from the decay of uranium in rocks and soils, occurs across the country. It accounts for more than half of the total radiation dose received by the Irish population. As a known carcinogen, in the same category as tobacco smoke and asbestos it is a cause of lung cancer. Exposure to radon for long periods or at high concentrations can lead to lung cancer. Mapping available at <http://www.epa.ie/radiation/radonmap>

4.8 Soil

Soil is the top layer of the earth's crust. It is formed by mineral particles, organic matter, water, air and living organisms. Soil can be considered as a non-renewable natural resource because it develops over very long timescales. It is an extremely complex, variable and living medium and performs many vital functions including: food and other biomass production, storage, filtration and transformation of many substances including water, carbon, and nitrogen. Soil has a role as a habitat and gene pool, serves as a platform for human activities, landscape and heritage and acts as a provider of raw materials. Such functions of soil are worthy of protection because of their socio-economic as well as environmental importance. Soils in any area are the result of the interaction of various factors, such as parent material, climate, vegetation and human action.

To date, there is no legislation which is specific to the protection of soil resources. However, the EU Soil Strategy for 2030 sets out a framework and concrete measures to protect and restore soils and ensure that they are used sustainably. It sets a vision and objectives to achieve healthy soils by 2050, with concrete actions by 2030. It also flags a future Soil Health Law to ensure a high level of environmental and health protection.

4.8.1 Soil Types

Main soil types²⁴ (Figure 4.4) surrounding the built-up areas of Newcastle West are: surface water gleys (wetland soils with slowly permeable horizons resulting in seasonal waterlogging), partially within and to the south of the Plan area; luvisols (generally fertile, widely used for agriculture and associated with significant accumulation of clay) partially within and to the north and south-west of the Plan area; brown earths (well-drained mineral soils, associated with high-levels of natural fertility) to the north-west of the Plan area; and alluvial soils (associated with alluvial clay, silt or sand river deposits of the Rivers Arra and Daar) to the south-east and north-west of the Plan area.

²⁴ All soil types belong to a Sub-Group and so in turn to one of the 11 soil Great Groups. Great Groups and Sub-Groups are a hierarchical arrangement of soils used for taxonomical classification (<http://gis.teagasc.ie/soils/soilguide.php>).

Other soils underlying the Plan area may include peat soils.²⁵ Peat soils are often indicative of areas that are the most sensitive to development due to ecological sensitivities and impeded drainage issues.

4.8.2 County Geological Sites

Geological Survey Ireland coordinate the Irish Geological Heritage Programme, whereby an objective has been set to identify and select sites of geological interest within each county across the country. County Geological Sites (CGSs) do not receive statutory protection like Natural Heritage Areas but receive an effective protection from their inclusion in the planning system. The audit of CGSs in County Limerick was completed in 2021, which identified 30 CGSs in County Limerick. There are no designated County Geological Sites occurring within the Plan boundary, however there is one site adjacent to the south-west of the Plan area, a warm water spring and site of a holy well, St. Bridget's Well, Newcastle West (Site Code: LK028), as shown on Figure 4.5.

4.8.3 Landslides

The term "landslide" describes a wide variety of processes that result in the downward and outward movement of materials such as rock, debris, earth, mud and peat under the force of gravity. Issues such as existing ground conditions, slope stability and storage of excavated material have the potential to influence susceptibility to landslides/bog bursts. The potential impacts of landslides include loss of human life/injury, flooding, pollution of watercourses and impacts upon aquatic biodiversity.

There are no landslide events recorded within the Plan area²⁶. The GSI have identified²⁷ the Plan area as having low levels of landslide susceptibility (as shown on Figure 4.6).

²⁵ The soil association concept represents a grouping of local soils that commonly occur together in the landscape (<http://gis.teagasc.ie/soils/soilguide.php>).

²⁶ Landslide events are recorded in the National Landslides Database available from GSI (www.gsi.ie).

²⁷ <https://www.gsi.ie/en-ie/programmes-and-projects/geohazards/projects/Pages/Landslide-Susceptibility-Mapping.aspx>

4.8.4 Potentially Contaminated Lands and Landfill Sites

In the absence of mitigation, contaminated materials have the potential to adversely impact upon human health, water quality and habitats and species. As is the case with other urban and semi-urban areas across the country, there is potential for contamination at sites within the Plan area, especially where land uses occurred in the past, in the absence of environmental protection legislation.

Churchtown historic landfill site is located on the western perimeter of Newcastle West, Co. Limerick. The site was used by Limerick County Council for the disposal of commercial and domestic waste from 1935 until the closure of the site in 1986. The site has not been used for agricultural or recreation purposes since the site was closed.²⁸

4.8.5 Existing Problems

Legislative objectives governing soil were not identified as being conflicted with.

²⁸https://epawebapp.epa.ie/licences/lic_eDMS/090151b2806ec0f4.pdf

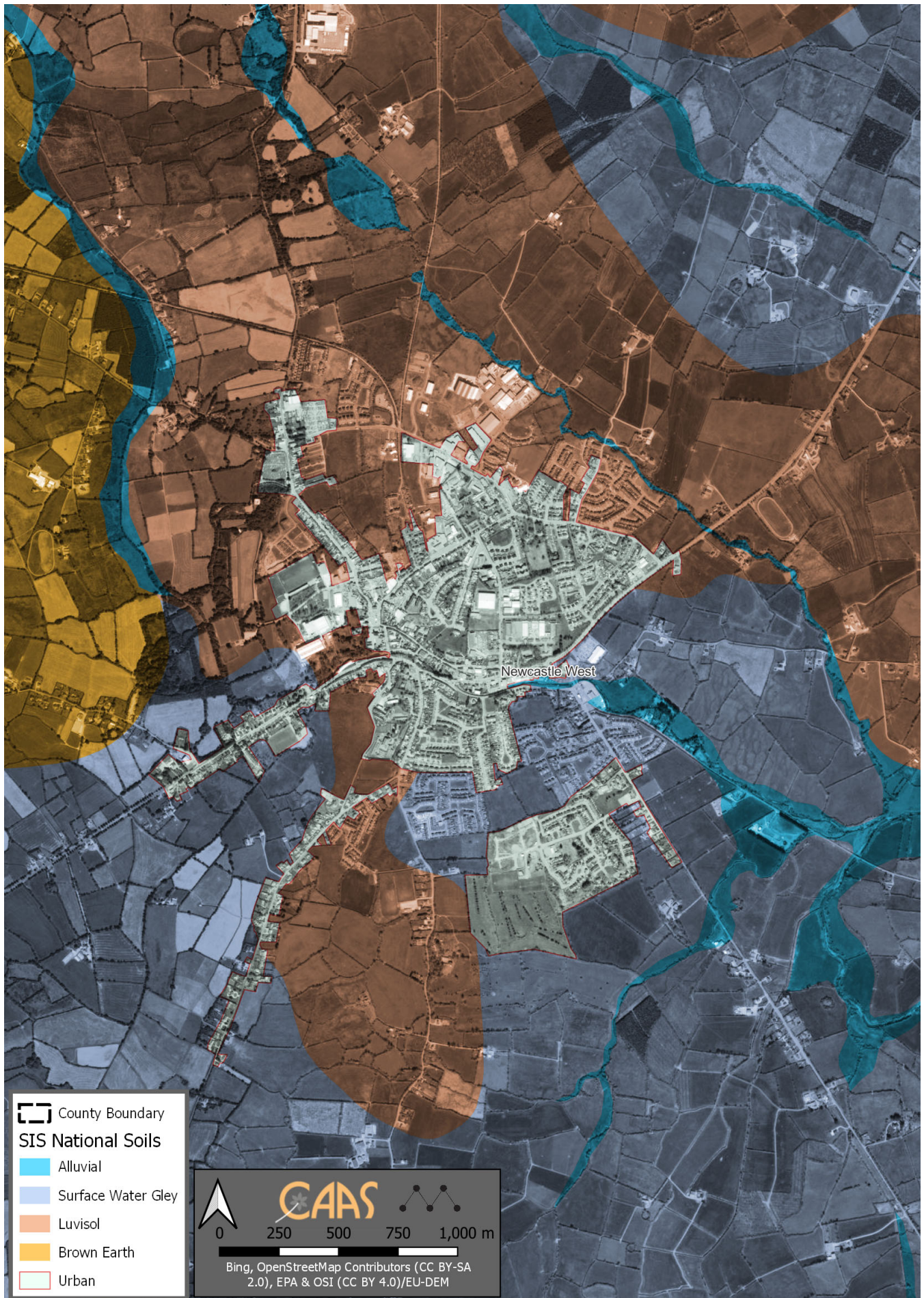


Figure 4.4 Soil Types



Figure 4.5 Geological Heritage – St. Bridget’s Well, Newcastle West County Geological Site

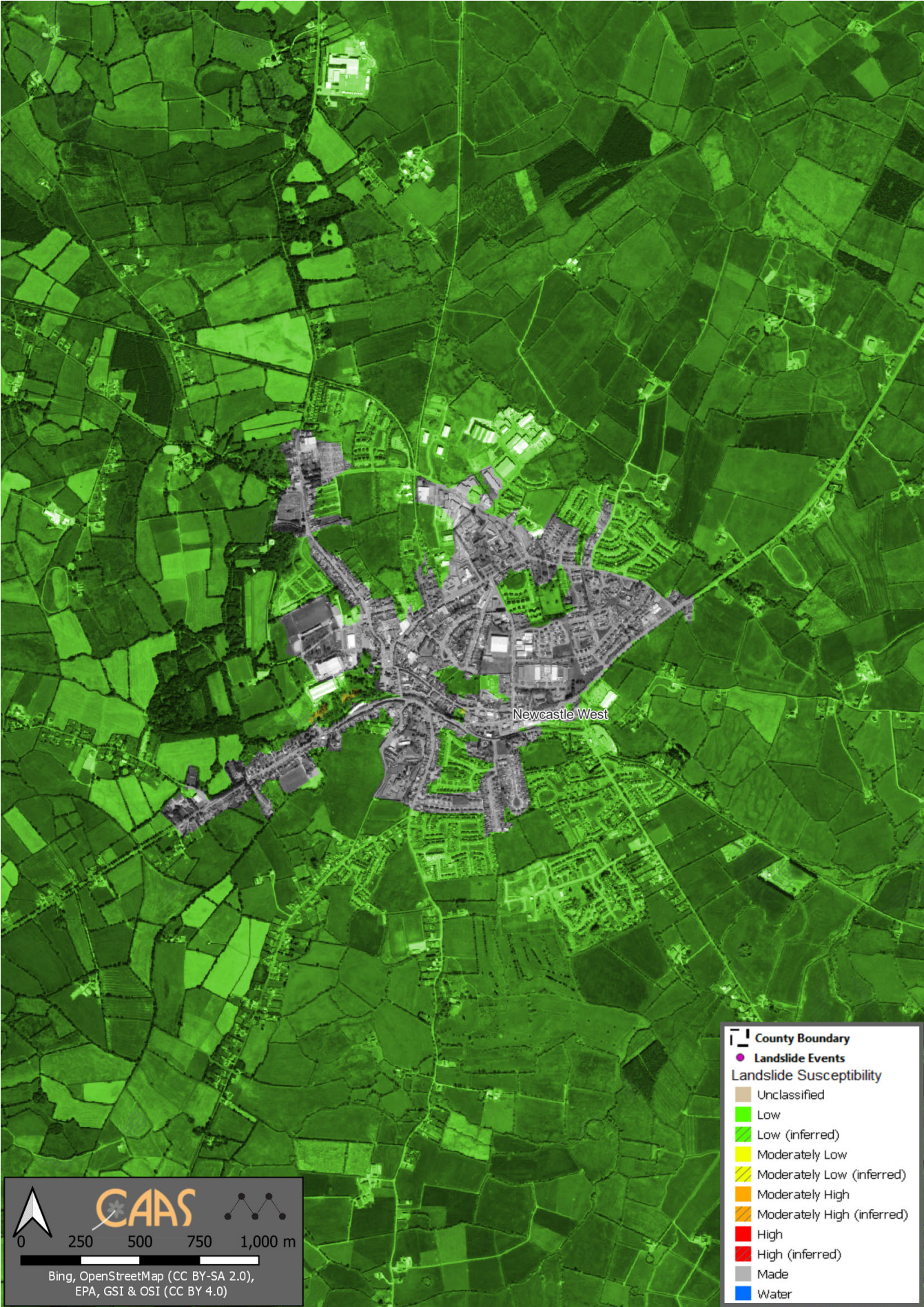


Figure 4.6 Landslide Susceptibility

4.9 Water

4.9.1 The Water Framework Directive

Since 2000, Water Management in the EU has been directed by the Water Framework Directive 2000/60/EC (WFD). The WFD requires that all Member States implement the necessary measures to prevent deterioration of the status of all waters - surface, ground, estuarine and coastal - and protect, enhance and restore all waters with the aim of achieving *good status*. All public bodies are required to coordinate their policies and operations so as to maintain the *good status* of water bodies which are currently unpolluted and improve polluted water bodies to *good status*.

Article 4 of the WFD sets out various exemptions for deterioration in status caused as a result of certain physical modifications to water bodies. This is provided: all practicable mitigation measures are taken; there are reasons of overriding public interest or the benefits to human health, safety or sustainable development outweigh the benefits in achieving the WFD objective; there are no better alternatives; and the reasons for the physical modification are explained in the River Basin Management Plan (RBMP).

The EU's Common Implementation Strategy Guidance Documents No. 20 and 36 provide guidance on exemptions to the environmental objectives of the WFD.

For the purpose of assessment, reporting and management, water is divided into groundwater, rivers, lakes, estuarine waters and coastal waters which are in turn divided into specific, clearly defined water bodies.

4.9.2 Zone of Influence

The Zone of Influence of the Plan beyond the Newcastle West Plan area with respect to impacts upon waters can be estimated to be all groundwater and surface water bodies that are downstream of catchments which drain the Plan area.

4.9.3 Surface Water Drainage

A catchment is an area of land contributing to a waterbody, with all the water ultimately running off to a single outlet. The WFD requires water quality management to be based on natural river catchments i.e. by reference to the natural, environmental unit rather than by reference to administrative or legal boundaries, which often fragment river catchments.

Surface water at and around the Plan area is channelled by rivers, streams and their tributaries, including: the River Arra rising in Knocknimpuha and flowing easterly through the town by the N21 on North Quay, joining the River Deel further downstream; the River Mash to the south of the N21 at Knockane and Shangarry; the River Dooally (tributary of the River Arra) rising in Ballynaberna to the north of the Plan area; and the River Daar (tributary of the River Deel) to the north-east of the Plan area.

4.9.4 Surface Water Status

The WFD defines 'overall surface water status' as the general expression of the status of a body of surface water, determined by the poorer of its ecological status and its chemical status. Thus, to achieve 'good surface water status' both the ecological status and the chemical status of a surface water body needs to be at least 'good'.

Ecological status is an expression of the structure and functioning of aquatic ecosystems associated with surface waters. Such waters are classified as of 'good ecological status' when they meet Directive requirements.

Chemical Status is a pass/fail assignment with a failure defined by a face-value exceedance of an Environmental Quality Standards (EQS) for one or more Priority Action Substances (PAS) listed in Annex X of the Water Framework Directive (WFD). The EQS values for individual PAS substances are set at European level. Good surface water chemical status means that concentrations of pollutants in the water body do not exceed the environmental limit values specified in the Directive.

The current WFD (2016-2021) status of various sections²⁹ of the River Deel ranges from *moderate* (Deel, Newcastle West_080 and_090) to *good* (Deel, Newcastle West_100); however, the River Arra (Arra_010) within and surrounding the Plan area is *poor*. Figure 4.7 illustrates the WFD surface water status within and surrounding the Plan area. These waterbodies are currently identified as being at risk of not meeting the WFD's objectives due to the damage being caused by significant pressures³⁰, such as:

- **Agricultural pressures** - can include issues related to farming including loss of excess nutrients and sediment loss to surface waters from diffuse sources such as spreading of fertilisers and manures. Excess phosphorous and sediment are typically issues for rivers and lakes, and too much nitrogen is the main issue for estuaries and coastal waters.
- **Hydromorphological and anthropogenic pressures** are identified together in many instances. Hydromorphological pressures can include: modifications to the physical habitat conditions or the natural functioning of a waterbody which can impact on ecology, caused by dredging and straightening of rivers (chanellisation), land drainage or hard infrastructure such as dams, weirs, culverts or other obstructions. Anthropogenic pressures can include: water abstractions; invasive species; agriculture; use of fertilizers, manures and pesticides; animal husbandry activities; inefficient irrigation practices; deforestation of woods; aquaculture; pollution due to industrial effluents and domestic sewage; mining; and recreational activities.
- **Domestic wastewater pressures** – can include septic-tank systems associated with one-off housing and small unlicensed private urban waste-water treatment plants. If not correctly installed and well maintained, these systems can result in leakage of untreated effluent to waters.
- **Urban run-off pressures** - can include leaking sewers and run-off from paved and unpaved areas and misconnections where private foul connections are connected to storm sewers instead of the foul sewer network.

4.9.5 Groundwater Status

Groundwater is stored in the void spaces in underground layers of rock, or aquifers. These aquifers are permeable, allowing both the infiltration of water from the soils above them and the yielding of water to surface and coastal waters. Groundwater is the part of the

subsurface water that is in the saturated zone - the zone below the water table, the uppermost level of saturation in an aquifer at which the pressure is atmospheric, in which all pores and fissures are full of water.

For groundwater bodies, the approach to classification is different from that for surface water. For each body of groundwater, both the chemical status and the quantitative must be determined. Both have to be classed as either *good* or *poor*. The WFD sets out a series of criteria that must be met for a body to be classed as good chemical and quantitative status.

The WFD status (2016-2021) of all groundwater underlying the Plan area (mapped on Figure 4.7) is currently identified as being of *good status*, meeting the objectives of the WFD.

4.9.6 Aquifer Vulnerability and Productivity

The Geological Survey of Ireland (GSI) rates groundwaters according to both their productivity and vulnerability to pollution.

Aquifer vulnerability refers to the ease with which pollutants of various kinds can enter groundwater. The aquifers underlying most of the Plan area are mapped on Figure 4.8 and are classified as a mix of vulnerabilities:

- *High and Extreme, Extreme (Rock at or near surface or karst) and Moderate vulnerability* mainly within and along the west and north-west of the Plan area; and
- *Low vulnerability*, within, adjacent to and surrounding most of the Plan area.

The GSI also rates aquifers based on the hydrogeological characteristics and on the value of the groundwater resource. This is referred to as aquifer productivity and is mapped on Figure 4.9. Aquifers in the vicinity of the Plan area are classified as being 'Locally Important Aquifer – Bedrock which is Moderately Productive only in Local Zones' and 'Regionally Important Aquifer – Karstified (diffuse)'.

4.9.7 WFD Registers of Protected Areas

The WFD requires that Registers of Protected Areas (RPAs) are compiled for several water bodies or part of water bodies which must

²⁹ As per EPA classification system (gis.epa.ie/EPAMaps)

³⁰ Current EPA data (April 2023) from <https://gis.epa.ie/EPAMaps/Water>.

have extra controls on their quality by virtue of how their waters are used by people and by wildlife.

The WFD requires that these RPAs contain: areas from which waters are taken for public or private water supply schemes; designated shellfish production areas; bathing waters; areas which are affected by high levels of substances most commonly found in fertilizers, animal and human wastes - these areas are considered nutrient sensitive; areas designated for the protection of habitats or species e.g. Salmonid areas; Special Areas of Conservation (SACs); and Special Protection Areas (SPAs). Also refer to Section 4.6.5.

The groundwater underlying the Plan and surrounding areas are used for drinking water abstraction in accordance with European Communities (Drinking Water) (No. 2) Regulations 2007 (S.I. No. 278/2007) and are identified on the RPAs for Drinking Water Ground or Surface Water Bodies (mapped on Figure 4.10).

4.9.8 Flooding

A Strategic Flood Risk Assessment (SFRA) document accompanies this SEA Environmental Report and the Plan. Requirements in relation to SFRA are provided under 'The Planning System and Flood Risk Management Guidelines for Planning Authorities' (Department of Environment and Office of Public Works, 2009) and associated Department of the Environment, Community and Local Government Circular PL2/2014.

Flood risk management and drainage provisions are already in force through the Limerick Development Plan 2022-2028 and related provisions have been integrated into the LAP. In addition, land use zoning contained within the Plan has been informed by the SFRA process and associated delineation of flood risk zones.

Historical flooding is documented by the Office of Public Works (see Figure 4.11). The most significant source of flood risk within the Plan area is fluvial (from rivers and streams), however, there are other sources of flooding present including pluvial (from rainwater) and risk from surface drainage systems.

Predictive flood risk mapping is also available from the Office of Public Works and is included

in the SFRA document that accompanies the Plan.

4.9.9 Existing Problems

Surface and groundwater bodies will need to ensure no deterioration in order to comply with the objectives of the WFD. Various water bodies will need improvement to meet these objectives. The Plan includes provisions that will contribute towards maintenance and improvement in the status of waters.

There is historic and predictive evidence of elevated levels of flood risk from fluvial sources at various locations across the Plan area. The preparation of the Plan, SEA and SFRA has taken place concurrently and the findings of the SFRA have informed both the Plan and the SEA.



Figure 4.7 WFD Surface Waterbodies and WFD Ground Waterbodies Status (2016-2021)



Figure 4.8 Groundwater Vulnerability



Figure 4.9 Aquifer Productivity



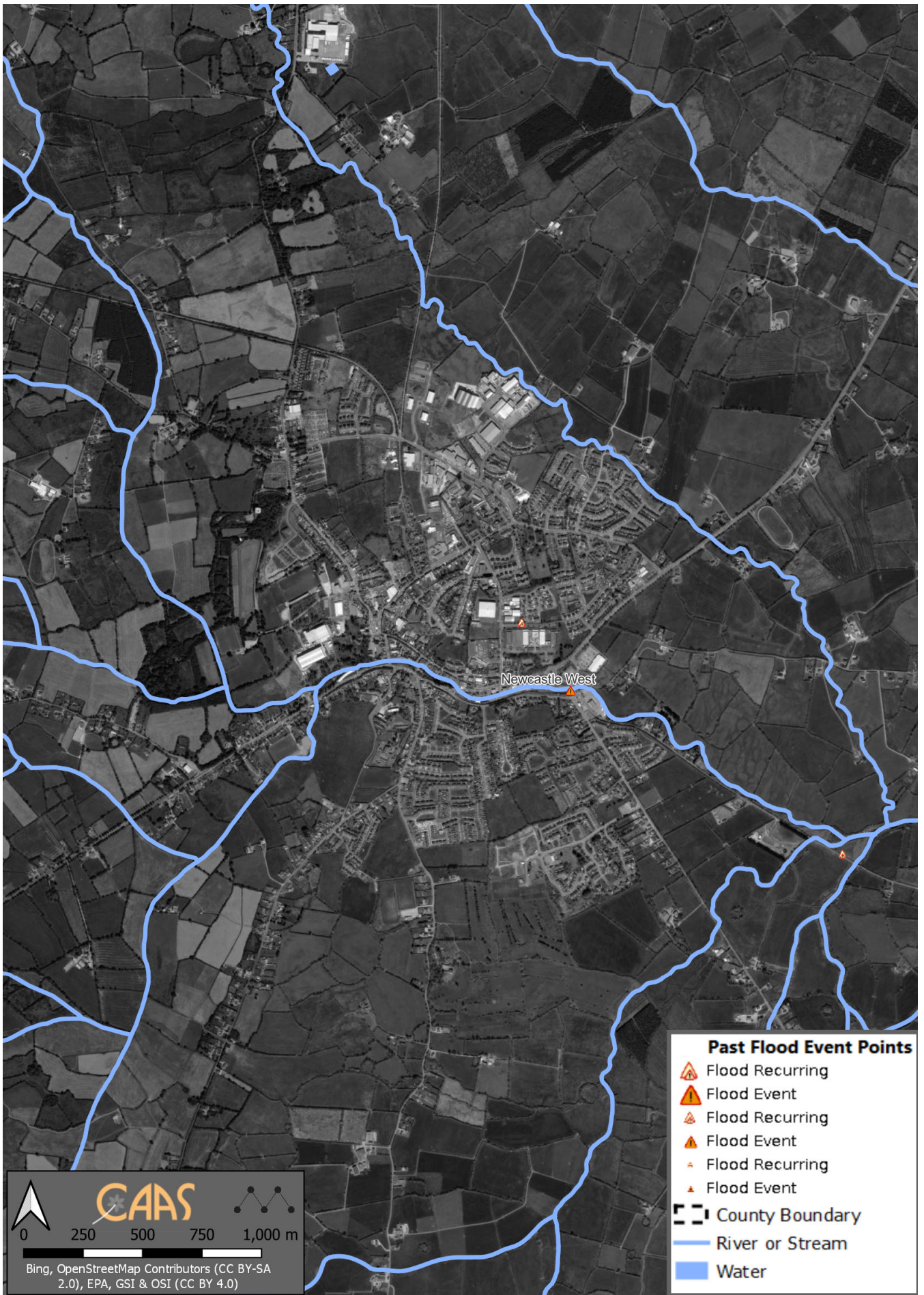


Figure 4.11 OPW Past Flood Events

4.10 Air and Climatic Factors

4.10.1 Climatic Factors

Interactions with climatic factors are present with other environmental components including water/flooding (see Section 4.9.8).

Total emissions of greenhouse gases by humans come from various sectors including transport, agriculture, energy industries, manufacturing combustion, industrial processes, residential developments, commercial services developments, waste management processes and fluorinated gases equipment (such as refrigeration and fire protection systems).

Ireland's Provisional Greenhouse Gas Emissions 1990-2020 (EPA, 2021) report details provisional estimates of greenhouse gas emissions for the period 1990-2020. In 2020, total national greenhouse gas emissions are estimated to have declined by 3.6% on 2019 levels to 57.70 million tonnes carbon dioxide equivalent (Mt CO₂eq). This reduction in total emissions was driven by the COVID impact on transport and less peat used for electricity generation. It highlights that further, transformative measures will be needed to meet national climate ambitions.

Greenhouse gas emissions from the transport sector decreased by 15.7% or 1.92 Mt CO₂eq in 2020. This decrease was largely driven by the impact of COVID restrictions on passenger car and public transport usage. International aviation, not included in the national total emissions, declined by 65% in 2020 or by 2.17 Mt CO₂ eq.

The EPA 2022 publication *Ireland's Greenhouse Gas Emission Projections 2021-2040* provides an assessment of Ireland's total projected greenhouse gas emissions from 2021 to 2040, updated using the latest Inventory data for 2020. The report provides an assessment of Ireland's progress towards achieving its national ambitions under the Climate Action and Low Carbon Development (Amendment) Act 2021 and EU emission reduction targets for 2030 as set out under the

Effort Sharing Regulation³¹ Key findings identified as part of the report are that:

- Urgent implementation of all climate plans and policies, plus further new measures, are needed for Ireland to meet the 51 per cent emissions reduction target and put Ireland on track for climate neutrality by 2050.
- Ireland can meet its non-ETS EU targets of a 30 per cent emission reduction by 2030 (compared to 2005) assuming implementation of planned policies and measures and the use of the flexibilities available. These include a land use flexibility using the Climate Action Plan 2021 afforestation rate of 8,000 hectares per annum.
- The gap between the 'Existing Measures' and 'Additional Measures' scenarios in these projections highlights that the current pace of implementation will not achieve the change required to meet the Climate Act targets. Faster implementation of 'Additional Measures' is needed to close this gap.
- Carbon budgets proposed by the Climate Change Advisory Council have recently been approved by the Oireachtas for the periods 2021-25, 2026-30 and 2031-35. The Projections highlight that there is currently a significant gap between the budgets and the projected emissions over the budget periods. This gap will need to be addressed very quickly if Ireland is to stay within the Carbon Budgets.
- Under the Additional Measures scenario, renewable energy is projected to increase to 78 per cent of electricity generation by 2030 with emissions from the Energy Industry decreasing by 10 per cent per annum from 2021-30. Increased coal use from 2021 and growing energy demand, including from data centres, threaten to negatively impact achievement of National targets, particularly for the first carbon budget period.
- Under the Existing Measures scenario emissions are projected to increase by 1.9 per cent over the 2020-2030 period. A methane emissions reduction of almost 30 per cent is required to achieve a 22 per cent reduction in agriculture emissions compared to 2018, as committed to in the 2021 Climate Action Plan. The sector must clearly set out how this will be achieved to address uncertainty regarding its ability to deliver even the lower end of the range of its sectoral targets within the ever-shortening timeframe to 2030.
- The end of COVID travel restrictions is projected to result in transport emissions increasing by 18-19 per cent from 2020 to 2022. Emissions from the sector are projected to reduce to 39 per cent below 2018 levels by 2030 and achieve a 31.7 per cent renewable transport share if the additional measures in plans and policies are implemented, this includes over 940,000 electric vehicles on the road by 2030, increased biofuel blend rates and measures to support more sustainable transport.

³¹ Regulation (EU) 2018/842 of on binding annual greenhouse gas emission reductions by Member States from 2021 to 2030 contributing to climate action to meet commitments under the Paris Agreement.

- Spending more time at home due to hybrid working and the increasing cost of fossil fuels highlights the need for our houses to become far more efficient. Implementing currently planned measures for the installation of 680,000 heat-pumps by 2030 as well as retrofitting 500,000 homes is projected to achieve a 41.5 per cent reduction in residential emissions in 2030 (compared to 2018).

4.10.2 Climate Mitigation and Adaptation

Climate mitigation describes the action to reduce the likelihood of climate change occurring or reduce the impact if it does occur. This can include reducing the causes of climate change (e.g., emissions of greenhouse gases) as well as reducing future risks associated with climate change.

The National Climate Action Plan 2023 provides a detailed plan for taking decisive action to achieve a 51% reduction in overall greenhouse gas emissions by 2030 and setting Ireland on a path to reach net-zero emissions by no later than 2050, as set out in the Climate Act 2021. The Plan lists the actions needed to deliver on climate targets and sets indicative ranges of emissions reductions for each sector of the economy. It will be updated periodically, to ensure alignment with legally binding economy-wide carbon budgets and sectoral ceilings.

Climate adaptation is a change in natural or human systems in response to the impacts of climate change. These changes moderate harm or exploit beneficial opportunities and can be in response to actual or expected impacts.

The National Adaptation Framework (Department of Communications, Climate Action and Environment, 2018), sets out the national strategy to reduce the vulnerability of the country to the negative effects of climate change and to avail of positive impacts. The National Adaptation Framework outlines a whole of government and society approach to climate adaptation. Under the Framework, several Government Departments will be required to prepare sectoral adaptation plans in relation to a priority area that they are responsible for.

The statutory Climate Change Adaptation Plan for the Transport Sector was prepared under the Climate Action and Low Carbon Development Act (2015) and the National

Adaptation Framework (2018) and published by the Department of Transport in 2019. The Plan sets out the national strategy to reduce Ireland's vulnerability to the negative effects of climate change and to avail of any positive impacts, with an objective to help develop resilience within the sector in order to safeguard transport infrastructure from future climate impacts.

The Limerick City and County Council Climate Change Adaptation Strategy 2019-2024 features a range of actions across sectors including: agriculture, forestry, biodiversity, built and archaeological heritage, transport infrastructure, electricity and gas networks, communication networks, flood risk management, water quality, water services infrastructure and health. The Strategy seeks to:

- Ensure a proper comprehension of the key risks and vulnerabilities of climate change;
- Bring forward the implementation of climate resilient actions in a planned and proactive manner; and
- Ensure that climate adaptation considerations are mainstreamed into all plans and policies and integrated into all operations and functions of Limerick City and County Council.

Under the National Climate Action Plan 2023, Limerick City and County Council is required to prepare a locally specific climate action plan for its administrative area. Once adopted, this plan will be valid for five years, and is subject to update at least every five years. The Limerick City and County Council Climate Action Plan will be developed over the coming year and will contribute towards addressing the mitigation of greenhouse gas emissions, climate change adaptation, and strengthening the alignment between national climate policy and the delivery of local climate action. The Limerick City and County Council Climate Action Plan must cover the following areas:

- An emphasis on a place-based approach to climate action, delivering a better understanding of greenhouse gas emissions and climate-related risks at a local level;
- Context-specific conditions and locally-tailored policy making;
- Evidence-based and integrated climate action through adaptation and mitigation measures, centred around an understanding of the role of the Council in climate action; and
- Strategic direction at local and community levels on the delivery of the national climate objective.

4.10.3 Alternative Fuels and Renewable Electricity Generation Targets

The use of alternative fuels, including electricity, forms a significant part of government policy to reduce transport emissions. The Plan facilitates a mode shift away from the private car to public transport, walking and cycling and provisions relating to electric vehicles. This will contribute towards reductions in the consumption of non-renewable energy sources and achievement of legally binding renewable energy targets.

The first Renewable Energy Directive (RED)³² was the most important legislation influencing the growth of renewable energy in the EU and Ireland for the decade ending in 2020. From 2021, RED was replaced by the second Renewable Energy Directive (REDII)³³, which continues to promote the growth of renewable energy out to 2030. RED set out two mandatory targets for renewable energy in Ireland to be met by 2020, while REDII sets new targets and criteria to be met by Ireland in 2030 and the interim.

The overall renewable energy share is referred to as the overall RES target. REDII introduced a binding EU-wide target for overall RES of 32% in 2030 and requires Member States to set their national contributions to the EU-wide target. As per the National Energy and Climate Plan (NECP) 2021-2030, Ireland's overall RES target is 34.1% in 2030. The sectoral targets are referred to as RES-E (electricity), RES-T (transport) and RES-H (heat). Ireland's NECP 2021-2030 set targets for RES-E of 70%, RES-H of 24% and RES-T of 14%, by 2030.³⁴

4.10.4 Energy Security

Greater use of alternative fuels, including renewable energy, has the potential to further contribute towards energy security.

Indigenous production accounted for 32% of Ireland's energy requirements in 1990. However, since the mid-1990s import dependency had grown significantly, due to

³² Directive 2009/28/EC on the promotion of the use of energy from renewable sources.

³³ Directive (EU) 2018/2001 on the promotion of the use of energy from renewable resources (recast).

³⁴ SEAI (2022): *Energy in Ireland 2022 Report*. Available at: <https://www.seai.ie/publications/Energy-in-Ireland-2022.pdf>

the increase in energy use together with the decline in indigenous natural gas production at Kinsale since 1995 and decreasing peat production. Ireland's overall import dependency reached 90% in 2006. It varied between 85% and 90% until 2016 when it fell to 69%. This trend reflects the fact that Ireland is not endowed with significant indigenous fossil fuel resources and has only in recent years begun to harness significant quantities of renewable resources and more recently natural gas from the Corrib field.

4.10.5 Ambient Air Quality

In order to protect human health, vegetation and ecosystems, EU Directives set down air quality standards in Ireland and the other Member States for a wide variety of pollutants. These pollutants are generated through fuel combustion, in space heating, traffic, electricity generation and industry and, in sufficient amounts, could affect the well-being of the areas inhabitants. The EU Directives include details regarding how ambient air quality should be monitored, assessed and managed.

The principles to this European approach are set out in the Ambient Air Quality and Cleaner Air for Europe (CAFE) Directive (2008/50/EC) (which replaces the earlier Air Quality Framework Directive 1996 and the first, second and third *Daughter Directives*; the fourth *Daughter Directive* will be included in CAFE at a later stage).

In order to comply with the directives mentioned above, the EPA measures the levels of a number of atmospheric pollutants. For the purposes of monitoring in Ireland, four zones are defined in the Air Quality Standards Regulations 2002 (S.I. No. 271 of 2002).

The EPA's (2022) *Air Quality in Ireland 2021* identifies that:

- Air quality in Ireland is generally good, however, there are localised issues.
- Ireland met all of its EU legal requirements in 2021 but it failed to meet the new WHO-based guideline levels for Health in 2021.
- Air quality monitoring results in 2021 showed that fine particulate matter (PM_{2.5}) mainly from burning solid fuel, and nitrogen dioxide (NO₂) mainly from road transport, remain the main threats to good air quality.
- It is estimated that there are approximately 1,300 premature deaths annually in Ireland due to poor air quality from fine particulate matter (PM_{2.5}).

With regards to solutions, the report identifies that:

- Ireland and Europe should move towards achieving the health-based WHO air quality guidelines.
- The planned National Clean Air Strategy for Ireland needs to be published and fully implemented.
- Local Authorities must provide more resources to increase air enforcement activities.
- National investment in clean public transport is needed across the country.

In order to comply with European Directives relating to air quality, the EPA manages the National Ambient Air Quality Network and measures the levels of several atmospheric pollutants at locations across the country.³⁵

4.10.6 Noise

Noise is unwanted sound. The Noise Directive - Directive 2002/49/EC relating to the assessment and management of environmental noise - is part of an EU strategy setting out to reduce the number of people affected by noise in the longer term and to provide a framework for developing existing EU policy on noise reduction from source. The Directive requires competent authorities in Member States to:

- Draw up *strategic noise maps* for major roads, railways, airports and agglomerations, using harmonised noise indicators and use these maps to assess the number of people who may be impacted upon as a result of excessive noise levels;
- Draw up action plans to reduce noise where necessary and maintain environmental noise quality where it is good; and,
- Inform and consult the public about noise exposure, its effects, and the measures considered to address noise.

In compliance with the Directive and transposing Environmental Noise Regulations (S.I. No. 140 of 2006), Noise Action Plans have been prepared for each local authority area within the country, including for Limerick City and County Council (Noise Action Plan 2018-2023). The purpose of the Noise Action Plan is to avoid, prevent and reduce, on a prioritised basis the harmful effects, including annoyance due to the long-term exposure to environmental noise.

³⁵ For more detail on current daily air quality data for the Plan refer to: <https://gis.epa.ie/EPAMaps/>.

4.10.7 Existing Problems

The Climate Change Advisory Council's *The Annual Review 2021* raised the issue of the implementation gap whereby ambition on climate policy was not being matched by verifiable actions. Several issues regarding implementation continue to cause concern and are re-emphasised throughout *The Annual Review 2022*, such as: achieving compliance with national and EU targets will require a significant acceleration in the planning of new measures; and full and rapid implementation of already announced measures will be necessary to achieve these goals.

Air quality and noise present challenges, especially in urban areas, as detailed under the relevant sub-sections above. With regard to air quality, air pollution from transport is dominated by NO_x emissions. Of these, NO₂ is particularly impactful from a health perspective. The Plan will help to facilitate reductions in emissions and a transition from dependence on fossil fuel combustion powered transport.

4.11 Material Assets

Other material assets, in addition to those detailed below, covered by the SEA include archaeological and architectural heritage (see Section 4.12) natural resources of economic value, such as water and air (see Sections 4.9 and 4.10).

4.11.1 Public Assets and Infrastructure

Public assets and infrastructure that have the potential to be impacted by the Plan, if unmitigated, include; settlements; resources such as public open spaces, parks, recreational areas and greenways (e.g. the Limerick Greenway – a 40 km off-road walking and cycling route connecting the towns of Rathkeale, Newcastle West and Abbeyfeale and linking into County Kerry); public buildings and services; utility infrastructure (electricity, gas, telecommunications, water supply, wastewater infrastructure etc.); forestry; and natural resources that are covered under other topics such as water and soil.

4.11.2 Land

The Plan has the potential to assist with the reuse and regeneration of brownfield sites thereby contributing towards sustainable mobility and reducing the need to develop greenfield lands and associated potential adverse environmental effects. Brownfield lands are generally located within urban/suburban areas.

4.11.3 Green Infrastructure

Parks and open space, such as Castle Demesne promote health and well-being, provide recreational facilities and range of habitats for various species. Green infrastructure (GI) is also a crucial component in building resilient communities capable of adapting to the consequences of climate change with trees, woodlands and wetlands providing carbon capture and slowing water flows while improving air quality.

4.11.4 Forestry

Some parts of the Plan area are covered by woodland. Woodlands provide recreational opportunities in addition to their heritage and economic benefits. They are a valuable resource in terms of biodiversity, recreation and tourism, and also important as links in the green infrastructure network.

4.11.5 Peatlands

Peatlands provide a valuable natural and archaeological resource. Peatlands are also important controllers of water levels in river catchments, providing a source of water in dry conditions and soaking up excess water during wetter periods; they actively capture and hold carbon and are an important natural resource in combatting climate change. Cutaway bogs have the potential to facilitate land uses such as employment, renewable energy generation, waste management, industrial, and tourism and recreation. Peat soils are often indicative of areas that are the most sensitive to development due to ecological sensitivities and impeded drainage issues.

4.11.6 Transport³⁶

Newcastle West is located in a strategic area with accessible links to Limerick, Cork and Kerry. Newcastle West is served by the N21 Limerick to Tralee a national route on the northern bank of the River Arra. A strategic regional road serves the town known as the R512 northwards to Foynes, and regional roads to the south of the town connect Newcastle West to Kilmallock (R520) and Charleville (R522). Bus Eireann runs regular daily services on the N21 servicing Limerick and Tralee. Rural Link also operate from Newcastle West to the general West Limerick hinterland. Limerick City and County Council is working in partnership with Transport Infrastructure Ireland and the Department of Transport to a scheme to relieve congestion on the N21 Limerick to Tralee Road through Newcastle West.

Rail transport ceased in the town in the 1960s and the disused railway line is now used as a walkway and cycleway known as the Great Southern Trail. National, regional and local roads provide vital links between the towns and villages to retail, service and employment centres throughout the County and to adjoining counties. Newcastle West is located along the Limerick Greenway, which links the West Limerick landscape with the settlements of Rathkeale, Newcastle West and Abbeyfeale.

As part of the preparation of the Local Area Plan, Limerick City and Council commissioned the preparation of a Local Transport Plan (LTP) for Newcastle West. The strategic aim of the LTP is to provide for the planning and delivery of transport infrastructure and services in the town, which will:

- Co-ordinate transport and land use planning;
- Reduce the demand for travel and the reliance on the private car in favour of more sustainable forms of transport;
- Provide a safe and sustainable transport network; and
- Identify strategic walking and cycling infrastructure to prioritise for funding.

The Plan strives to reduce the reliance on the private car, by promoting and facilitating more sustainable modes of transport, based on the principles of the '10-minute town' concept, a compact settlement and the town centre first

³⁶ Newcastle West Local Area Plan 2023-2029

approach. The Council will co-operate closely with other relevant agencies and stakeholders, including the NTA and TII to address modal shift targets.³⁷

4.11.7 Minerals and Aggregates

Minerals such as iron and copper and aggregates such as sand and gravel can occur throughout the country. Minerals and aggregates are essential to manufacturing and construction.

The GSI have a suite of data sources available that would be useful in planning and assessing individual projects with regard to the environmental topic(s) of soil and/or material assets. These include:

- Aggregate Potential Mapping;
- Bedrock mapping;
- Quaternary and Physiographic mapping; and
- National Aquifer and Recharge mapping.

4.11.8 Water Services

4.11.8.1 Wastewater

The EPA's 2022 report *'Urban Waste Water Treatment in 2021'*³⁸ identified that:

- 12 large urban areas that did not meet European Union treatment standards in 2021 require improvements to comply with these standards;
- 32 towns and villages discharging raw sewage into the environment every day must be connected to wastewater treatment plants;
- 6 collecting systems (sewers) must be upgraded to address the findings of a judgement from the Court of Justice of the European Union;
- 38 priority areas require improvements to protect rivers, lakes, estuaries and coastal waters that are adversely impacted by wastewater; and
- 12 areas need improvements in wastewater treatment to protect endangered freshwater pearl mussels.

Based on the EPA's assessment of monitoring information provided by Uisce Éireann and the enforcement activities carried out by the EPA, this report identifies urban areas with the most important environmental issues that must be addressed.

From January 2014, Irish Water (now Uisce Éireann) became responsible for all public

water services, involving the supply of drinking water and the collection, treatment and disposal of waste water. Uisce Éireann is also responsible for the treatment and disposal of the sludge that is generated from both its water and waste water treatment plants. The Council is an agent of Uisce Éireann for operations and remains the designated Water Authority for the assessment and approval of on-site wastewater treatment systems and is responsible for surface water drainage in the town.

The provision of well-maintained quality waste water treatment infrastructure is essential to facilitate sustainable development of the town while also protecting the environment and public health. Uisce Éireann is now responsible for the collection, treatment and disposal of waste water where public wastewater facilities exist in towns and villages.

Uisce Éireann, working in partnership with Limerick City and County Council, is making investments to undertake essential upgrade works to waste water treatment plants in towns and villages across the County. The upgrading of infrastructure will contribute towards compliance with the Water Framework Directive, EU Urban Waste Water Treatment Directive and Drinking Water Regulations and will help to protect human health and maintain the quality of surface and ground waters.

4.11.8.2 Wastewater Infrastructure

The Plan area is served by the Newcastle West Wastewater Treatment Plant (WWTP), located outside the Plan boundary on the R520 at Cloonschrene. The sewerage network is predominately a combined sewer with effluent flowing by gravity into the wastewater treatment plant and a single outfall into River Deel.³⁹

The WWTP has a design capacity of 9,000 Population Equivalent (PE) and current (2020) load of 8,379 PE. There is currently spare capacity available at this plant⁴⁰, with Uisce

³⁷ Newcastle West Local Area Plan 2023-2029

³⁸ Available at: <https://www.epa.ie/publications/monitoring--assessment/waste-water/urban-waste-water-treatment-in-2021.php>

³⁹ Newcastle West Local Area Plan 2014-2020 (as extended to 2024)

⁴⁰ Irish Water: *Settlements with Waste Water Discharge Authorisations - Wastewater Treatment Capacity Register*. The register provides an indication of available wastewater treatment capacity based on loads received in 2021 and available treatment plan capacity now or by completion of a project by 2024 (where relevant). Available at: <https://www.water.ie/connections/developer-services/capacity-registers/wastewater-treatment-capacity-register/limerick/>

Éireann project planned/underway to increase capacity and/or to improve treatment performance.⁴¹

The Newcastle West WWTP (Discharge Licence No. D0108-01) was reported by the EPA as fully compliant with the Emission Limit Values (ELVs) set in the Wastewater Discharge Licence in the most recent available Annual Environmental Report 2021 (published in April 2022)⁴².

Population growth targets for Newcastle West are already provided for under the Core Strategy of the Limerick Development Plan 2022-2028. The Local Area Plan is required to provide for the zoning of sufficient lands in order to meet this target. As detailed in Section 9.2 "Water and Wastewater Infrastructure" of the Local Area Plan: "The draft 2022 wastewater treatment capacity register (WWCR) indicates there is spare capacity (ca. 400 population equivalent) to cater for a portion of the projected population growth of 1,988 over the County Development Plan period. In addition, there are a number of connection enquiries and applications being processed that may reduce available capacity further. An upgrade of Newcastle West WWTP is included in the 2020-2024 Investment Plan and is at concept design stage. The project will provide sufficient spare capacity to cater for the targeted growth. It is anticipated it will be post 2025, but within the lifetime of the Local Area Plan, before the WWTP project is completed. This will be subject to funding and other approvals." Objective IU 02 Wastewater Infrastructure provides, inter alia: "b. Ensure adequate wastewater infrastructure is available to cater for existing and proposed development, in collaboration with Uisce Éireann, avoiding any deterioration in the quality of receiving waters and ensuring discharge meets the requirements of the Water Framework Directive. This includes the separation of foul and surface water through the provision of separate networks and nature-based rainwater management measures. Applications for development under the Plan must demonstrate that the proposal for development would not adversely affect a water body's ability to meet its objectives under the Water Framework Directive, individually as a result of the proposed

development or cumulatively, in combination with other developments. Evidence of consultation by developers with Uisce Éireann, prior to submitting a planning application will be required."

4.11.8.3 Water Supply

Uisce Éireann is responsible for providing and maintaining adequate public water supply infrastructure. Public group water schemes are maintained and monitored by Limerick City and County Council.

Newcastle West is located within the South-West Regional Water Resource Zone (WRZ)⁴³. The Newcastle West Water Supply Scheme serves the Plan area with water supplied by Tobergal well and Castlemahon Water Treatment Plant.⁴⁴ The Newcastle West Water Supply Scheme serves population of 9,702 persons and produces approximately 3,270 m³/day of water.⁴⁵ As identified by Uisce Éireann, there is a potential capacity available to support 2031 population targets.⁴⁶

Population growth targets for Newcastle West are already provided for under the Core Strategy of the Limerick Development Plan 2022-2028. The Local Area Plan is required to provide for the zoning of sufficient lands in order to meet this target. As detailed in Section 9.2 "Water and Wastewater Infrastructure" of the Local Area Plan: "The regional water resources plan for the Eastern and Midlands Region was recently adopted and identifies plan-level approaches to address the identified needs in Newcastle West in a sustainable manner. The current preferred longer-term option under the Eastern and Midlands Regional Water Resources Plan is interconnection with Limerick City WRZ

⁴³ A Water Resource Zone (WRZ) is an independent water supply system serving a region, city, town or village and is governed by topography or the extent of the water distribution network in an area. A WRZ may include multiple Water Treatment Plants and/or sources.

⁴⁴ Newcastle West Local Area Plan 2014-2020 (as extended to 2024)

⁴⁵ EPA RAL Q2 of 2022: <https://www.epa.ie/publications/compliance--enforcement/drinking-water/annual-drinking-water-reports/Q2-2022-RAL-Public-Supplies-for-web.pdf>

⁴⁶ Capacity constraints exist, connection applications will be assessed on an individual basis considering their specific demand requirements. An improvement to the Level of Service (LoS) will be required to meet 2031 population targets. This may take the form of leakage reduction and/or capital investment to maintain/improve levels of service as the demand increases. Proposed solutions will be developed & prioritised through the National Water Resources Plan and investment planning process. Source: <https://www.water.ie/connections/developer-services/capacity-registers/water-supply-capacity-register/limerick/>

⁴¹ Limerick Development Plan 2022-2028

⁴² <https://www.water.ie/help/wastewater/compliance/annual-environmental-repo/>

however, further assessment is required before this is confirmed. Interim measures to increase the supply are being progressed, including increasing groundwater supply at Tobergal Springs and upgrading Castlemahon Water Treatment Plant, which is expected to be completed in 2025. In addition, groundwater investigations and trunk main upgrades are being progressed at Kilcolman Springs and are expected to be completed within lifetime of the Limerick Development Plan. It is envisaged that with these works, there will be adequate capacity available to cater for the projected growth over the Development Plan period, although supply may be constrained during drought periods.”

Under Section 58 of the Environmental Protection Agency Act 1992, the EPA is required to collect and verify monitoring results for all water supplies in Ireland covered by the European Communities (Drinking Water) Regulations, 2000. The EPA publishes their results in annual reports that are supported by Remedial Action Lists (RALs). The RAL identifies water supplies that are not in compliance with the Regulations mentioned above. The most recent EPA Remedial Action List (Q4 of 2022, published in February 2023)⁴⁷ does not include any water scheme that supplies the Plan area.

4.11.8.4 Surface Water Drainage

Limerick City and County Council is responsible for surface water drainage in the Plan area. Sustainable urban Drainage systems (SuDS) is a method to minimise the quantity and increase the quality of surface water runoff and to mitigate adverse impacts of climate change. SuDS can also provide amenity and biodiversity benefits. The Council seeks to ensure the sustainable management of surface water discharges in urban areas through the use of SuDS.

4.11.9 Waste Management

Waste management within the Plan area is guided by the Southern Region Waste Management Plan 2015-2021. The Plan provides a framework for the prevention and management of waste in a sustainable manner in eight local authority areas, including Limerick City and County Council.

There are three Region Waste Management Plans in Ireland and these will be replaced by a new National Waste Management Plan for a Circular Economy, which will take account of the various measures outlined in A Waste Action Plan for A Circular Economy - Ireland's National Waste Policy 2020-2025.

4.11.10 Existing Problems

The provisions of the Plan will contribute towards protection of the environment with regard to impacts arising from material assets.

The provisions of infrastructure and supporting services for development, particularly water and wastewater services, is critical as capacity limitations have been identified (these are described above).

⁴⁷ Available at: <https://www.epa.ie/publications/compliance--enforcement/drinking-water/annual-drinking-water-reports/epa-drinking-water-remedial-action-list-q4-of-2022.php>

4.12 Cultural Heritage

4.12.1 Archaeological Heritage

Archaeology is the study of past societies through the material remains left by those societies and the evidence of their environment. Archaeological sites and monuments vary greatly in form and date; examples include earthworks of different types and periods, (e.g. early historic ringforts and prehistoric burial mounds), megalithic tombs from the Prehistoric period, medieval buildings, urban archaeological deposits and underwater features.

Archaeological heritage is protected under the National Monuments Acts (1930-2004), Natural Cultural Institutions Act 1997 and the Planning Acts.

The Record of Monuments and Places (RMP) is an inventory, put on a statutory basis by amendment to the National Monuments Act 1994, of sites and areas of archaeological significance, numbered and mapped. It is available from the National Monuments Service and at archaeology.ie.

The term 'monument' includes all man-made structures of whatever form or date except buildings habitually used for ecclesiastical purposes. All monuments in existence before 1700 A.D. are automatically considered to be historic monuments within the meaning of the Acts. Monuments of architectural and historical interest also come within the scope of the Acts. Monuments include: any artificial or partly artificial building, structure or erection or group of such buildings, structures or erections; any cave, stone or other natural product, whether or not forming part of the ground, that has been artificially carved, sculptured or worked upon or which (where it does not form part of the place where it is) appears to have been purposely put or arranged in position; any, or any part of any, prehistoric or ancient tomb, grave or burial deposit, or, ritual, industrial or habitation site; and any place comprising the remains or traces of any such building, structure or erection, any such cave, stone or natural product or any such tomb, grave, burial deposit or ritual, industrial or habitation site, situated on land or in the territorial waters of the State', but excludes 'any building or part of

any building, that is habitually used for ecclesiastical purposes' (National Monuments Acts 1930-2004). A recorded monument is a monument included in the list and marked on the map which comprises the RMP set out county by county under Section 12 of the National Monuments (Amendment) Act, 1994 by the Archaeological Survey of Ireland. The definition includes Zones of Notification within which requirements for notifications of proposed works apply.

There are a total of 20 Recorded Monuments within the Plan area⁴⁸. The core of the town of Newcastle West, situated in the townlands of Castle Demesne, Churchtown, Gortboy, Rathnaneane and Knockane, is classified as a historic town and a Recorded Monument. There are eleven ring forts in the immediate environs of the town and a medieval church and graveyard north of the town in the townland of Churchtown. The medieval Desmond Hall and Castle complex is located in the western end of Newcastle West, on the south of the main square.

Figure 4.12 shows the spatial distribution of recorded monuments within and beyond the Plan area.

The Underwater Archaeology Unit was established within the National Monuments Service to manage and protect Ireland's underwater cultural heritage, including the quantification of the underwater resource and assessing development impacts in order to manage and protect this aspect of Ireland's heritage. The Shipwreck Inventory is principally a desktop survey with information gathered from a broad range of cartographic, archaeological and historical sources, both documentary and pictorial. Wrecks over 100 years old and archaeological objects found underwater are protected under the National Monuments (Amendment) Acts 1987 and 1994. Significant wrecks less than 100 years old can be designated by Underwater Heritage Order on account of their historical, archaeological or artistic importance. Such Orders can also be used to designate areas of seabed or land covered by water to more clearly define and protect wreck sites and archaeological objects. Under the legislation all diving on known protected wreck sites or with the intention of searching for underwater

⁴⁸ Newcastle West Local Area Plan 2023-2029

cultural heritage is subject to licensing requirements.

Rivers within the Plan area may contain many features and finds associated with riverine heritage such as shipwrecks, piers, quay walls, fords, stepping stones and associated archaeological objects and features.

4.12.2 Architectural Heritage

The term architectural heritage is defined in the Architectural Heritage (National Inventory) and Historic Monuments Act 1999 as meaning all: structures and buildings together with their settings and attendant grounds, fixtures and fittings; groups of structures and buildings; and, sites which are of technical, historical, archaeological, artistic, cultural, scientific, social, or technical interest.

Records of Protected Structures are legislated for under Section 12 and Section 51 of the Planning and Development Act 2000 as amended. Protected structures are defined in the Planning and Development Act 2000 as amended as structures, or parts of structures that are of special interest from an architectural, historical, archaeological, artistic, cultural, scientific, social or technical point of view.

In relation to a protected structure or proposed protected structure, the following are encompassed:

- The interior of the structure;
- The land lying within the curtilage⁴⁹ of the structure;
- Any other structures lying within that curtilage and their interiors; and,
- All fixtures and features that form part of the interior or exterior of any structure or structures referred to in subparagraph (i) or (iii).

Clusters of architectural heritage are indicated within the town's centre, as shown on Figure 4.13. There are 69 Protected Structures within the Plan area⁵⁰, including a courthouse, a workhouse, a castle demesne, graveyards and

terraced dwellings. Notable structures include: Templar's Castle; St. Mary's Church; Newcastle Union Workhouse; Famine Cemetery; and Cork Bridge.

An Architectural Conservation Area (ACA) is a place, area, group of structures or townscape, which is of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest or contributes to the appreciation of a Protected Structure. An ACA may or may not include Protected Structures. In an ACA, protection is placed on the external appearance of such areas or structures. There is one ACA designated within the Plan area, Newcastle West ACA, which covers the Market Square, Bridge Street, Maiden Street and areas along the North Quay. There are c. 30 Protected Structures and a number of National Monuments, including Desmond Hall, within the ACA.⁵¹

The National Inventory of Architectural Heritage (NIAH) is a State initiative under the administration of the Department of Housing, Local Government and Heritage and was established on a statutory basis under the provisions of the Architectural Heritage (National Inventory) and Historic Monuments (Miscellaneous Provisions) Act 1999. The purpose of the NIAH is to identify, record, and evaluate the post-1700 architectural heritage of Ireland, uniformly and consistently as an aid in the protection and conservation of the built heritage. NIAH surveys provide the basis for the recommendations of the Minister for Housing, Local Government and Heritage to the local authorities for the inclusion of particular structures in their Record of Protected Structures. The NIAH includes historic gardens and designed landscapes. There are 30 structures in Newcastle West⁵² listed on the NIAH, generally clustered within the town centre and including bridges, buildings and monuments (shown on Figure 4.13).

4.12.3 Existing Problems

The context of archaeological and architectural heritage has changed over time however no existing conflicts with legislative objectives governing archaeological and architectural heritage have been identified.

⁴⁹ Curtilage is normally taken to be the parcel of ground immediately associated with the Protected Structure, or in use for the purposes of the structure. Protection extends to the buildings and land lying within the curtilage. While the curtilage sometimes coincides with the present property boundary, it can originally have included lands, features or even buildings now in separate ownership, e.g. the lodge of a former country house, or the garden features located in land subsequently sold off. Such lands are described as being attendant grounds, and the protection extends to them just as if they were still within the curtilage of the Protected Structure.

⁵⁰ Newcastle West Local Area Plan 2023-2029

⁵¹ Limerick Development Plan 2022-2028

⁵² Newcastle West Local Area Plan 2023-2029



Figure 4.12 Archaeological Heritage

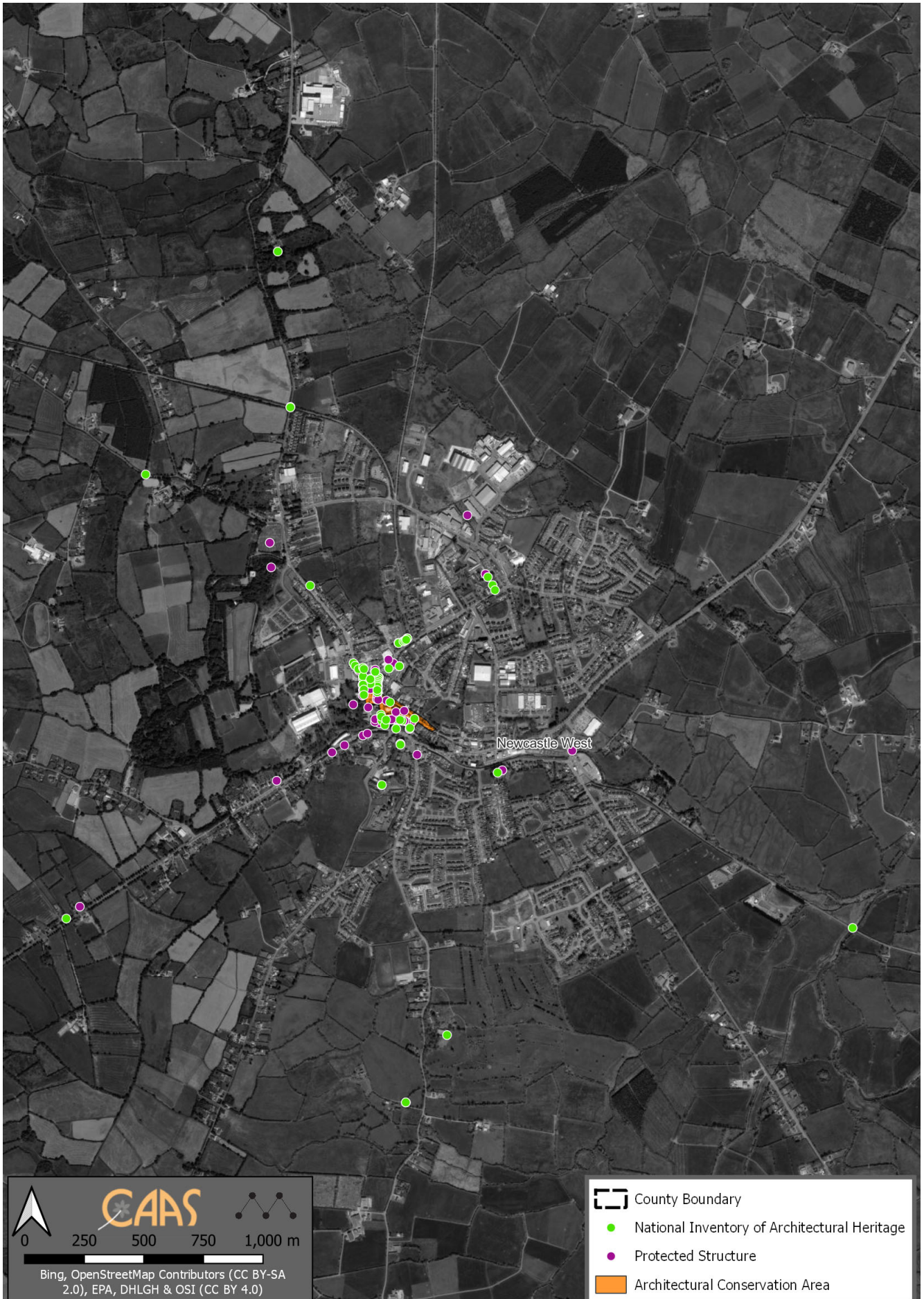


Figure 4.13 Architectural Heritage

4.13 Landscape

4.13.1 Introduction

Article 1 (a) of the European Landscape Convention provides a definition of landscape as follows; "Landscape means an area, as perceived by people whose character is the result of the action and interaction of natural/or human factors". The importance of landscape and visual amenity and the role of its protection are recognised in the Planning and Development Act 2000 as amended, which requires that Development Plans include objectives for the preservation of the landscape, views and the amenities of places and features of natural beauty.

Newcastle West is located in the lowlands east of the Mullaghareirks mountains approximately 4km to the west of the town. The Arra River rises in Knockanimpuha and flows easterly through Newcastle West adjacent to the N21 on North Quay. The Dooally River rises in Ballynabearna to the north of the town, and flows south easterly to join the River Arra upstream of the town. On the north east boundary of the town the River Daar flows. These watercourses are an important amenity and are valued as a natural habitat. There are also a number of tree groups and freestanding trees along the Arra River Walk, by the riverside at Desmond Hall, the riverbank along the Daar and in the Demesne. The area surrounding the town centre is predominantly made up of agricultural lands and is generally flat with some local hills and ridges.

4.13.2 Landscape Character Assessment

The European Landscape Convention was ratified in Ireland in 2002, this required EU Member States to adopt national measures to promote landscape, planning, protection and management. The purpose of landscape character assessment is to provide the foundation for policy formulation and decision making for landscape management.

There are a range of different landscapes found in the Plan area, each with varying visual and amenity values, topography, exposure levels and each containing a variety of habitats. Each landscape type has varying capacity to absorb development related to its overall sensitivity.

The existing Limerick Development Plan 2022-2028 identifies ten Landscape Character Areas and Views and Prospects within the Council's administrative area. Newcastle West is located within the 'Agricultural Lowlands' Landscape Character Area (LCA 1), as mapped on Figure 4.14. This landscape is defined as farming landscape type with a series of regular filed boundaries and a well-developed hedgerow system.

4.13.3 Existing Environmental Problems

New developments have resulted in changes to the visual appearance of lands within the Plan area however legislative objectives governing landscape and visual appearance were not identified as being conflicted with.



Figure 4.14 Landscape Designations

Section 5 Strategic Environmental Objectives

Strategic Environmental Objectives (SEOs) are methodological measures developed from policies that generally govern environmental protection objectives established at international, Community or Member State level e.g. the environmental protection objectives of various European Directives that have been transposed into Irish law and which are required to be implemented.

The SEOs are set out under a range of topics and are used as standards against which the provisions of the Plan and the alternatives are evaluated in order to help identify which provisions would be likely to result in significant environmental effects and where such effects would be likely to occur, if – in the case of adverse effects – unmitigated.

The SEOs are linked to indicators which can facilitate monitoring the environmental effects of the Plan as well as identifying targets which the Plan can help work towards.

All SEOs, indicators and targets are provided on Table 5.1 overleaf.

Further detail on legislation, plans and programmes are provided under Section 2 (and associated Appendix I “Relationship with Legislation and Other Policies, Plans, and Programmes”) and Section 4.

Given the position of the Local Area Plan in the land use planning hierarchy beneath the Limerick Development Plan and the Regional Spatial and Economic Strategy for the Southern Region, the measures identified in SEAs for these Plans have been integrated into those for this SEA outlined below. This consistency across the hierarchy of land use plans will improve the efficiency and effectiveness of future monitoring.

Table 5.1 Strategic Environmental Objectives (SEOs), Indicators and Targets

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives	Indicators	Targets
Biodiversity, Flora and Fauna	BFF	No net contribution to biodiversity losses or deterioration	<ul style="list-style-type: none"> • Protect, conserve and enhance habitats, species and areas of regional and local importance, including aquatic habitats and species and promote the sustainable management of ecological networks. • Ensure the continued conservation of the Natura 2000 sites, Natural Heritage and Proposed Natural Heritage sites. These sites are important, both as an amenity and natural history resource. • Safeguard national, regional and local designated sites and supporting features which function as stepping stones for migration, dispersal and genetic exchange of wild species • Enhance biodiversity in line with the National Biodiversity Strategy and its targets • To protect, maintain and conserve the County's natural capital 	<ul style="list-style-type: none"> • Conservation status of habitats and species as assessed under Article 17 of the Habitats Directive. 	<ul style="list-style-type: none"> • Maintenance of favourable conservation status for all habitats and species protected under national and international legislation • Identification of sites of local biodiversity and ecological corridors • Require all local level land use plans to include ecosystem services and green/blue infrastructure provisions in their land use plans and as a minimum, to have regard to the required targets in relation to the conservation of European sites, other nature conservation sites, ecological networks, and protected species • Implement and review, as relevant, the Limerick Heritage Plan 2017-2030
				<ul style="list-style-type: none"> • Retention of sufficient areas zoned for open space • Number of spatial plans that have included ecosystem services content, mapping and policy to protect ecosystem services when their relevant plans are either revised or drafted 	<ul style="list-style-type: none"> • Identification of sites of local biodiversity and ecological corridors • Require all local level land use plans to include ecosystem services and green/blue infrastructure provisions in their land use plans and as a minimum, to have regard to the required targets in relation to the conservation of European sites, other nature conservation sites, ecological networks, and protected species • Implement and review, as relevant, Limerick Heritage Plan 2017-2030
				<ul style="list-style-type: none"> • SEAs and AAs as relevant for new Council policies, plans, programmes etc. 	<ul style="list-style-type: none"> • Screen for and undertake SEA and AA as relevant for new Council policies, plans, programmes etc.
				<ul style="list-style-type: none"> • Status of water quality in the County's water bodies 	<ul style="list-style-type: none"> • Included under Water below
Population and Human Health	PHH	Improve quality of life for all ages and abilities based on high-quality, serviced, well connected and sustainable residential, working, educational and recreational environments	<ul style="list-style-type: none"> • Facilitate a good standard of quality of life for the population through ensuring high quality residential, recreational and working environments • Provide policy support for the provision of suitable infrastructure and facilities for the local population • Promote economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management • Ensure that existing population and planned growth is matched with the required public infrastructure and the required services 	<ul style="list-style-type: none"> • Implementation of Plan measures relating to the promotion of economic growth as provided for by Development Plan Chapter 5 "A Strong Economy" 	<ul style="list-style-type: none"> • For review of progress on implementing Plan objectives to demonstrate successful implementation of measures relating to the promotion of economic growth as provided for by Development Plan Chapter 5 "A Strong Economy" • Increase in employment opportunities, services and public services in the Plan area
				<ul style="list-style-type: none"> • Number of spatial concentrations of health problems arising from environmental factors resulting from development permitted under the Plan 	<ul style="list-style-type: none"> • No spatial concentrations of health problems arising from environmental factors as a result of implementing the Plan

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Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives	Indicators	Targets
			<ul style="list-style-type: none"> Safeguard the County's citizens from environment-related pressures and risks to health and well-being 	<ul style="list-style-type: none"> Proportion of people reporting regular cycling / walking to school and work above previous CSO figures Number of spatial plans that include specific green infrastructure mapping 	<ul style="list-style-type: none"> Increase in the proportion of people reporting regular cycling / walking to school and work above previous CSO figures Require all local level land use plans to include specific green infrastructure mapping
Soil (and Land)	S	Ensure the long-term sustainable management of land	<ul style="list-style-type: none"> Place an emphasis on the development of brownfield sites rather than greenfield sites. By reducing the possible development of greenfield sites this makes a positive contribution to soil conservation This can also be achieved through the sensitive reuse of existing buildings, reducing the need for new build Protect geological sites within the plan area Protect soils against pollution, and prevent degradation of the soil resource Promote the sustainable use of infill and brownfield sites over the use of greenfield within the County Safeguard areas of prime agricultural land and designated geological sites 	<ul style="list-style-type: none"> Proportion of population growth occurring on infill and brownfield lands compared to greenfield (also relevant to Material Assets) 	<ul style="list-style-type: none"> Concentrate development in the selected zoned areas and encourage re-use of existing sites Maintain built surface cover nationally to below the EU average of 4% as per the NPF In accordance with National Policy Objectives 3c of the National Planning Framework, a minimum of 30% of the housing growth targeted in any settlement is to be delivered within the existing built-up footprint of the settlement To map brownfield and infill land parcels across the County
				<ul style="list-style-type: none"> Instances where contaminated material generated from brownfield and infill must be disposed of Environmental assessments and AAs as relevant for applications for brownfield and infill development prior to planning permission 	<ul style="list-style-type: none"> Dispose of contaminated material in compliance with EPA guidance and waste management requirements Screen for and undertake environmental assessments and AA as relevant for applications for brownfield and infill development prior to planning permission
Water	W	Protection, improvement and sustainable management of the water resource	<ul style="list-style-type: none"> Ensure that wastewater infrastructure keeps pace with development proposals Ensure that the requirements of the Water Framework Directive are incorporated into the Plan Ensure that wetland and peatland sites are preserved Ensure that the status of water bodies is protected, maintained and improved in line with the requirements of the Water Framework Directive Ensure water resources are sustainably managed to deliver proposed regional and County growth targets in the context of existing and projected water supply and wastewater capacity constraints ensuring the protection of receiving environments Avoid inappropriate zoning and development in areas at risk of flooding and areas that are vulnerable to current and future erosion, particularly coastal areas Integrate sustainable water management solutions (such as SuDS, porous surfacing and green roofs) into development proposals 	<ul style="list-style-type: none"> Status of water bodies as reported by the EPA Water Monitoring Programme for the WFD Water quality monitoring results by the EPA and by LCCC EPA data under Urban Waste Water Discharges in Ireland Population Equivalents Greater than 500 persons - Reports Performance of WWTP in relation to conditions of discharge licence 	<ul style="list-style-type: none"> Not to cause deterioration in the status of any surface water or affect the ability of any surface water to achieve 'good status' Implementation of the objectives of the River Basin Management Plan Protect and restore areas identified in the River Basin District Management Plan required to achieve "good" status, i.e. 4+ for water quality in line with the Water Framework Directive objectives No deterioration in levels of compliance with drinking water quality standards and maintenance of national average compliance rate
				<ul style="list-style-type: none"> Number of incompatible developments permitted within flood risk areas 	<ul style="list-style-type: none"> Minimise developments granted permission on lands which pose - or are likely to pose in the future - a significant flood risk
Material Assets	MA	Sustainable and efficient use of natural resources	<ul style="list-style-type: none"> Maintain sustainable access to assets such as open spaces, water resources and all other physical and social infrastructure Ensure that there is adequate policy support for infrastructural provision in the plan area Optimise existing infrastructure and provide new 	<ul style="list-style-type: none"> Programmed delivery of Uisce Éireann infrastructure for all key growth towns in line with Uisce Éireann Investment Plan and prioritisation programme to ensure sustainable growth can be accommodated Number of new developments 	<ul style="list-style-type: none"> All new developments granted permission to be connected to and adequately and appropriately served by waste water treatment over the lifetime of the Plan Where septic tanks are proposed, for planning permission to be only granted when applications demonstrate that the outfall from the septic tank

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Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives	Indicators	Targets
			<p>infrastructure to match population distribution proposals in the County - this includes transport infrastructure</p> <ul style="list-style-type: none"> • Ensure access to affordable, reliable, sustainable and modern energy for all which encourages a broad energy generation mix to ensure security of supply – wind, solar, hydro, biomass, energy from waste and traditional fossil fuels • Promote the circular economy, reduce waste, and increase energy efficiencies • Ensure there is adequate sewerage and drainage infrastructure in place to support new development • Reduce the energy demand from the transport sector and support moves to electrification of road and rail transport modes • Encourage the transition to a zero-carbon economy by facilitating the development of a grid infrastructure to support renewables and international connectivity. Reduce the average energy consumption per capita including promoting energy efficient buildings, retrofitting, smart- buildings, cities and grids 	<p>granted permission which can be adequately and appropriately served with waste water treatment over the lifetime of the Plan</p> <ul style="list-style-type: none"> • Access to public amenities and facilities • Proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<p>will not – in- combination with other septic tanks– contribute towards any surface or ground water body not meeting the objective of good status under the Water Framework Directive</p> <ul style="list-style-type: none"> • Facilitate, as appropriate, Uisce Éireann in developing water and wastewater infrastructure • See also targets relating to greenfield and brownfield development of land under Soil and broadband under Population and Human Health <ul style="list-style-type: none"> • Increase in area of amenity space within the Plan area • Increased usage of open space and rivers as a public amenity • Increased visitor number to cultural heritage sites • Increase in the proportion of people reporting regular cycling / walking to school and work above previous CSO figures
Air	A	Support clean air policies that reduce the impact of air pollution on the environment and public health	<ul style="list-style-type: none"> • To avoid deterioration of air quality in the plan area • To avoid, prevent or reduce harmful effects on human health and the environment as a whole resulting from emissions to air from all sectors with particular reference to emissions from transport, residential heating, industry and agriculture • Maintain and promote continuing improvement in air quality through the reduction of emissions and promotion of renewable energy and energy efficiency • Promote continuing improvement in air quality • Reduction of emissions of sulphur dioxide, nitrogen oxides, volatile organic compounds, ammonia and fine particulate matter which are responsible for acidification, eutrophication and ground-level ozone pollution • Meet Air Quality Directive standards for the protection of human health — Air Quality Directive • Significantly decrease noise pollution by 2020 and move closer to WHO recommended levels 	<ul style="list-style-type: none"> • Proportion of journeys made by private fossil fuel-based car compared to previous National Travel Survey levels • NO_x, SO_x, PM10 and PM2.5 as part of Ambient Air Quality Monitoring 	<ul style="list-style-type: none"> • Decrease in proportion of journeys made by private fossil fuel-based car compared to previous National Travel Survey levels • Improvement in Air Quality trends, particularly in relation to transport related emissions of NO_x and particulate matter
Climatic Factors⁵³	C	Achieving transition to a competitive, low carbon, climate-resilient economy that is cognisant of environmental	<ul style="list-style-type: none"> • To increase energy efficiency and the proportion of energy generated from renewable sources and where necessary to ensure the sensitive application of energy saving measures to the historic built fabric • To include climate action concerns into the plan policies • To minimise emissions of greenhouse gasses • Integrate sustainable design solutions into the County’s 	<ul style="list-style-type: none"> • Implementation of Plan measures relating to climate reduction targets • A competitive, low-carbon, climate-resilient and environmentally sustainable economy 	<ul style="list-style-type: none"> • For review of progress on implementing Plan objectives to demonstrate successful implementation of measures relating to climate reduction targets • Contribute towards transition to a competitive, low-carbon, climate-resilient and environmentally sustainable economy by 2050

⁵³ Please also refer to relevant legislation and requirements under Section 4.10, Section 8.5 and Appendix I. Targets under the national Climate Action Plan are reviewed and updated periodically and include those under the headings of Electricity, Built Environment, Transport, Agriculture, Forestry & Land Use and Enterprise.

SEA Environmental Report for the Newcastle West Local Area Plan 2023-2029

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives	Indicators	Targets
		impacts	<p>infrastructure (e.g. energy efficient buildings; green infrastructure)</p> <ul style="list-style-type: none"> Contribute towards the reduction of greenhouse gas emissions in line with national targets Promote development resilient to the effects of climate change Promote the use of renewable energy, energy efficient development and increased use of public transport 	<ul style="list-style-type: none"> Adoption of renewable technologies Carbon dioxide (CO₂) emissions across the electricity generation, built environment and transport sectors Numbers of buildings being upgraded and insulated Energy consumption, the uptake of renewable options and solid fuels for residential heating Proportion of journeys made by private fossil fuel-based car compared to previous levels Proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> Increase in upgraded sources of energy production from renewable sources Contribute towards achieving the target of a 51% reduction in GHG emissions from 2021 to 2030, and net-zero emissions no later than 2050 To promote reduced energy consumption and support the uptake of renewable options and a move away from solid fuels for residential heating Decrease in the proportion of journeys made by residents of the County using private fossil fuel-based car compared to previous levels Increase in the proportion of people reporting regular cycling / walking to school and work above previous CSO figures
Cultural Heritage	CH	Safeguard cultural heritage features and their settings through responsible design and positioning of development	<ul style="list-style-type: none"> Protect and conserve features of archaeological heritage and their setting Protect conserve and promote the sustainable reuse of architectural heritage Conserve and record those aspects of cultural heritage that may be affected by planning related activities 	<ul style="list-style-type: none"> Number of Monuments in the Record of Monuments and Places and areas of archaeological potential which have been recorded or subject to exploration as a result of development Number of archaeological monuments and their settings damaged due to development 	<ul style="list-style-type: none"> To maintain and increase the number of archaeological features recorded and protected No damage occurring to structures or monuments and their settings due to development
				<ul style="list-style-type: none"> Number and conservation status of structures in RPS Number of buildings conserved and re-used for new development Number of protected structures damaged due to development 	<ul style="list-style-type: none"> To increase the number and maintain the conservation status of Protected Structures Increase investment through Built Heritage Investment and funding streams
Landscape	L	Protect and enhance the landscape character	<ul style="list-style-type: none"> Protect and conserve the quality, character and distinctiveness of the Limerick landscape both urban and rural Retain the protected views in the Development Plan To implement the framework for identification, assessment, protection, management and planning of landscapes having regard to the European Landscape Convention 	<ul style="list-style-type: none"> Quality of urban environment and halt in dereliction Building height and design Number of developments permitted that result in avoidable adverse visual impacts on the landscape, especially with regard to landscape and amenity designations included in Land Use Plans, resulting from development which is granted permission under the Plan 	<ul style="list-style-type: none"> Increase in quality of individual applications No developments permitted which result in avoidable adverse visual impacts on the landscape, especially with regard to landscape and amenity designations included in Land Use Plans, resulting from development which is granted permission under the Plan

Section 6 Description of Alternatives

6.1 Introduction

The SEA Directive requires that reasonable alternatives (taking into account the objectives and the geographical scope of the plan or programme) are identified, described and evaluated for their likely significant effects on the environment.

Alternatives for the Plan are identified under a number of types below and assessed in Section 7.

6.2 Limitations in Available Alternatives

The Plan is required to be prepared by the existing, already in force, Limerick Development Plan 2022-2028 and the Planning and Development Act 2000 (as amended), which specifies various types of objectives that must be provided for by the Plan.

The alternatives available for the Plan are guided by the provisions of higher-level planning objectives, including those of the National Planning Framework, the Regional Spatial and Economic Strategy for the Southern Region and the Development Plan. These documents set out various requirements for the content of the Plan including on topics such as land use zoning and the sustainable development of settlements.

6.3 Description of Alternatives Considered

6.3.1 Land Use Zoning Alternatives

Limerick City and County Council in preparing a Draft Plan for public display developed the following alternatives for land use zoning in Newcastle West (there are various alternative components under each heading):

Land Use Zoning Alternative 1 "More Consolidated, More Compact"

- Alternative 1 would zone sufficient lands to allow Newcastle West to reach the population target set out in the Core Strategy of Chapter 2 of the Limerick Development Plan 2022-2028.
- This alternative involves preparing the Plan using a Serviced/Serviceable Land and Infrastructure Assessment approach. Methodologies for this approach are set out in higher level documents, including the National Planning Framework and the 2013 Local Area Plan Guidelines for Planning Authorities. Gaps in infrastructure are identified and new development must ensure appropriate protection of the environment.
- Less new infrastructure would be required than would be the case for Alternative 2 "Less Consolidated, Less Compact".
- Residential Development to take place on New Residential, Existing Residential and Residential Serviced Sites over the lifetime of the Plan, with at least 30% of all new housing development is delivered within existing built-up areas and on infill, brownfield and backland sites, with a significantly lower quantum of New Residential lands than would be the case under Land Use Zoning Alternative 2 "Less Consolidated, Less Compact".
- Town Centre developments would be developed in a planned and coordinated manner focused within the town centre.
- Enterprise and Employment zoned lands would be more compact and would be closer to existing infrastructure.
- Opportunity sites identified with clear guidance on design and proposed uses identified.
- Open Space and Recreational Lands would be preserved.

Land Use Zoning Alternative 2 “Less Consolidated, Less Compact”

- Alternative 2 would zone excess lands, allowing Newcastle West to reach the population target set out in the Core Strategy of Chapter 2 of the Limerick Development Plan 2022-2028; however, the over provision of zoned lands would be likely to result in less balanced and less orderly development.
- This alternative involves preparing the Plan while not using the Serviced Land and Infrastructure Assessment approach.
- Additional infrastructure would be required to accommodate sporadic development, more than would be required for Alternative 1 “More Consolidate, More Compact”.
- Residential Development to take place on New Residential, Existing Residential and Residential Serviced Sites over the lifetime of the Plan, with at least 30% of all new housing development within existing built-up areas and on infill, brownfield and backland sites less likely to be achieved (in comparison with Land Use Zoning Alternative 1 “More Consolidated, More Compact”), with a significantly higher quantum of New Residential lands than would be the case under Land Use Zoning Alternative 1 “More Consolidated, More Compact”. The additional New Residential lands would be on more peripheral, less well serviced lands.
- Enterprise and Employment would be less compact, including additional lands to the north west of the town.
- Town centre development would be sporadic and uncoordinated around the Town centre zonings.
- Opportunity sites are identified but no clear guidance on design or uses identified.

6.3.2 Transport Alternatives

Limerick City and County Council in preparing a Draft Plan for public display developed the following alternatives for focusing on mitigation with respect to new transport infrastructure and services in Newcastle West:

Transport Alternative 1 “Preparation of a Local Transport Plan and integrating a Focus on Mitigation at Plan and Project level”

- Transport Alternative 1 would involve the preparation of a Local Transport Plan that would be integrated into the Local Area Plan to provide for the planning and delivery of transport infrastructure and services in the town.
- Transport infrastructure projects that are not already permitted or provided for by existing plans/ programmes, would be subject to the undertaking of feasibility assessment, taking into account planning need and the policies and objectives of the Plan relating to sustainable mobility. Where feasibility is established, a Corridor and Route Selection Process will be undertaken, where relevant appropriate, in two stages: Stage 1 – Route Corridor Identification, Evaluation and Selection; and Stage 2 – Route Identification, Evaluation and Selection.
- New transport infrastructure would be considered subject to environmental constraints, including those related to habitats and potential impacts (e.g. disturbance from lighting). This would include minimising river crossings, avoiding sensitive habitats, not increasing barriers to flood waters and sustainable design and construction techniques.

Transport Alternative 2 “Focus on Mitigation at Project level only”

- Transport Alternative 2 would not involve the preparation of a Local Transport Plan that would be integrated into the Local Area Plan to provide for the planning and delivery of transport infrastructure and services in the town.
- Transport infrastructure projects would be included within the Plan; however, all additional environmental mitigation would be left to be defined in the future, at project level.

Section 7 Evaluation of Alternatives

7.1 Introduction

This section provides a comparative evaluation of the likely significant environmental effects⁵⁴ of implementing available alternatives that are described in Section 6. This determination sought to understand whether each alternative was likely to improve conflict with or have a neutral interaction with the receiving environment.

7.2 Methodology

The relevant aspects of the current state of the environment (see Section 4) and the Strategic Environmental Objectives (see Section 5 and Table 7.1) are used in the assessment of alternatives.

The alternatives are evaluated using compatibility criteria (see Table 7.2 below) in order to determine how they would be likely to affect the status of the existing environment and the SEOs. The SEOs and the alternatives are arrayed against each other in order to demonstrate which interactions would cause effects on specific components of the environment. Where the appraisal identifies an interaction with the status of an SEO the relevant SEO code is entered into the relevant column.

The interactions identified are reflective of likely significant environmental effects:

- Interactions that would be *likely to improve the status* of a particular SEO would be likely to contribute towards a significant positive effect on the environmental component to which the SEO relates, including in-combination with the existing statutory planning/decision-making and consent-granting framework.
- Interactions that would *potentially conflict with the status of an SEO and would be likely to be mitigated* would be likely to result in potential significant negative effects; however, these effects could be mitigated by integrating measures into the Plan.
- Interactions that would probably *conflict with the status of an SEO and would be unlikely to be mitigated* would be likely to result in a significant residual negative effect on the environmental component to which the SEO relates.

Effects considered include secondary, cumulative, synergistic, short, medium and long-term permanent and temporary, positive and negative effects.

The degree of significance of effects occurring cannot be fully determined at this level of decision making due to the lack of exact detail available with regard to the type or scale of development that will be permitted under the Plan. However, a strategic assessment can be undertaken.

Table 7.1 Strategic Environmental Objectives⁵⁵

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives
Biodiversity, Flora and Fauna	BFF	No net contribution to biodiversity losses or deterioration	<ul style="list-style-type: none"> • Protect, conserve and enhance habitats, species and areas of regional and local importance, including aquatic habitats and species and promote the sustainable management of ecological networks. • Ensure the continued conservation of the Natura 2000 sites, Natural Heritage and Proposed Natural Heritage sites. These sites are important, both as an amenity and natural history resource. • Safeguard national, regional and local designated sites and supporting features which function as stepping stones for migration, dispersal and genetic exchange of wild species • Enhance biodiversity in line with the National Biodiversity Strategy and its targets • To protect, maintain and conserve the County's natural capital

⁵⁴ These effects include secondary, cumulative (see also Section 8.2), synergistic, short, medium and long-term permanent and temporary, positive and negative effects.

⁵⁵ See also Section 5

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives
Population and Human Health	PHH	Improve quality of life for all ages and abilities based on high-quality, serviced, well connected and sustainable residential, working, educational and recreational environments	<ul style="list-style-type: none"> Facilitate a good standard of quality of life for the population through ensuring high quality residential, recreational and working environments Provide policy support for the provision of suitable infrastructure and facilities for the local population Promote economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management Ensure that existing population and planned growth is matched with the required public infrastructure and the required services Safeguard the County's citizens from environment-related pressures and risks to health and well-being
Soil (and Land)	S	Ensure the long-term sustainable management of land	<ul style="list-style-type: none"> Place an emphasis on the development of brownfield sites rather than greenfield sites. By reducing the possible development of greenfield sites this makes a positive contribution to soil conservation This can also be achieved through the sensitive reuse of existing buildings, reducing the need for new build Protect geological sites within the plan area Protect soils against pollution, and prevent degradation of the soil resource Promote the sustainable use of infill and brownfield sites over the use of greenfield within the County Safeguard areas of prime agricultural land and designated geological sites
Water	W	Protection, improvement and sustainable management of the water resource	<ul style="list-style-type: none"> Ensure that wastewater infrastructure keeps pace with development proposals Ensure that the requirements of the Water Framework Directive are incorporated into the Plan Ensure that wetland and peatland sites are preserved Ensure that the status of water bodies is protected, maintained and improved in line with the requirements of the Water Framework Directive Ensure water resources are sustainably managed to deliver proposed regional and County growth targets in the context of existing and projected water supply and wastewater capacity constraints ensuring the protection of receiving environments Avoid inappropriate zoning and development in areas at risk of flooding and areas that are vulnerable to current and future erosion, particularly coastal areas Integrate sustainable water management solutions (such as SuDS, porous surfacing and green roofs) into development proposals
Material Assets	MA	Sustainable and efficient use of natural resources	<ul style="list-style-type: none"> Maintain sustainable access to assets such as open spaces, water resources and all other physical and social infrastructure Ensure that there is adequate policy support for infrastructural provision in the plan area Optimise existing infrastructure and provide new infrastructure to match population distribution proposals in the County - this includes transport infrastructure Ensure access to affordable, reliable, sustainable and modern energy for all which encourages a broad energy generation mix to ensure security of supply – wind, solar, hydro, biomass, energy from waste and traditional fossil fuels Promote the circular economy, reduce waste, and increase energy efficiencies Ensure there is adequate sewerage and drainage infrastructure in place to support new development Reduce the energy demand from the transport sector and support moves to electrification of road and rail transport modes Encourage the transition to a zero-carbon economy by facilitating the development of a grid infrastructure to support renewables and international connectivity. Reduce the average energy consumption per capita including promoting energy efficient buildings, retrofitting, smart- buildings, cities and grids
Air	A	Support clean air policies that reduce the impact of air pollution on the environment and public	<ul style="list-style-type: none"> To avoid deterioration of air quality in the plan area To avoid, prevent or reduce harmful effects on human health and the environment as a whole resulting from emissions to air from all sectors with particular reference to emissions from transport, residential heating, industry and agriculture Maintain and promote continuing improvement in air quality through the reduction of emissions and promotion of renewable energy and energy efficiency

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives
		health	<ul style="list-style-type: none"> Promote continuing improvement in air quality Reduction of emissions of sulphur dioxide, nitrogen oxides, volatile organic compounds, ammonia and fine particulate matter which are responsible for acidification, eutrophication and ground-level ozone pollution Meet Air Quality Directive standards for the protection of human health — Air Quality Directive Significantly decrease noise pollution by 2020 and move closer to WHO recommended levels
Climatic Factors	C	Achieving transition to a competitive, low carbon, climate-resilient economy that is cognisant of environmental impacts	<ul style="list-style-type: none"> To increase energy efficiency and the proportion of energy generated from renewable sources and where necessary to ensure the sensitive application of energy saving measures to the historic built fabric To include climate action concerns into the plan policies To minimise emissions of greenhouse gasses Integrate sustainable design solutions into the County's infrastructure (e.g. energy efficient buildings; green infrastructure) Contribute towards the reduction of greenhouse gas emissions in line with national targets Promote development resilient to the effects of climate change Promote the use of renewable energy, energy efficient development and increased use of public transport
Cultural Heritage	CH	Safeguard cultural heritage features and their settings through responsible design and positioning of development	<ul style="list-style-type: none"> Protect and conserve features of archaeological heritage and their setting Protect conserve and promote the sustainable reuse of architectural heritage Conserve and record those aspects of cultural heritage that may be affected by planning related activities
Landscape	L	Protect and enhance the landscape character	<ul style="list-style-type: none"> Protect and conserve the quality, character and distinctiveness of the Limerick landscape both urban and rural Retain the protected views in the Development Plan To implement the framework for identification, assessment, protection, management and planning of landscapes having regard to the European Landscape Convention

Table 7.2 Criteria for appraising the effect of the Alternatives on SEOs

Likely to Improve status of SEOs +	Potential Conflict with status of SEOs - likely to be mitigated -	Probable Conflict with status of SEOs - unlikely to be mitigated -	No Likely interaction with status of SEOs 0
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7.3 Detailed Assessment of Alternatives

7.3.1 Effects Common to all Alternatives

Each of the alternatives envisage – in compliance with the robust policy framework in place at national, regional and county level – sustainable development and compact growth in the Plan area. As such, various potential environmental effects are common to each of the alternatives. The environmental effects detailed on would be present, some to varying degrees, under the different alternatives.

Table 7.3 Effects Common to All Alternatives

Environmental Component	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated
Biodiversity and Flora and Fauna	<ul style="list-style-type: none"> • Contribution towards protection of ecology (including designated sites, ecological connectivity, habitats) by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-serviced lands elsewhere in the Plan area and beyond. • Sustains existing sustainable rural management practices – and the communities who support them – to ensure the continuation of long-established managed landscapes and the flora and fauna that they contain. 	<p>Arising from both construction and operation of development and associated infrastructure:</p> <ul style="list-style-type: none"> • Loss of/damage to biodiversity in designated sites (including European Sites and Wildlife Sites) and Annexed habitats and species, listed species, ecological connectivity and non-designated habitats; and disturbance to biodiversity and flora and fauna; • Habitat loss, fragmentation and deterioration, including patch size and edge effects; and • Disturbance (e.g. due to noise and lighting along transport corridors) and displacement of protected species such as birds (e.g. swifts and owls) and bats.
Population and Human Health	<ul style="list-style-type: none"> • Promotion of economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management. • Contribution towards appropriate provision of infrastructure and services to existing population and planned growth by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-serviced lands elsewhere in the Plan area and beyond • Contribution towards the protection of human health by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-serviced lands elsewhere in the Plan area and beyond. 	<ul style="list-style-type: none"> • Potential adverse effects arising from flood events. • Potential interactions if effects arising from environmental vectors.
Soil	<ul style="list-style-type: none"> • Contribution towards the protection of soils (including those used for agriculture) and designated sites of geological heritage by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-serviced lands elsewhere in the Plan area and beyond. 	<ul style="list-style-type: none"> • Potential adverse effects on the hydrogeological and ecological function of the soil resource, including as a result of development on contaminated lands. • Potential for riverbank erosion.

Environmental Component	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated
Water	<ul style="list-style-type: none"> Contribution towards the protection of water by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond. 	<ul style="list-style-type: none"> Potential adverse effects upon the status of water bodies and entries to the WFD Register of Protected Areas (ecological and human value), arising from changes in quality, flow and/or morphology. Increase in flood risk and associated effects associated with flood events.
Material Assets	<ul style="list-style-type: none"> Contribution towards appropriate provision of infrastructure and services to existing population and planned growth by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond. Contribution towards limits in increases in energy demand from the transport sector by facilitating sustainable compact growth. 	<ul style="list-style-type: none"> Failure to provide adequate and appropriate waste water treatment (water services infrastructure and capacity ensures the mitigation of potential conflicts). Failure to adequately treat surface water run-off that is discharged to water bodies (water services infrastructure and capacity ensures the mitigation of potential conflicts). Failure to comply with drinking water regulations and serve new development with adequate drinking water (water services infrastructure and capacity ensures the mitigation of potential conflicts). Increases in waste levels. Potential impacts upon public assets and infrastructure. Interactions between agricultural waste and soil, water, biodiversity and human health – including as a result of emissions of ammonia from agricultural activities (e.g. manure handling, storage and spreading) and the production of secondary inorganic particulate matter.
Air and Climatic Factors	<ul style="list-style-type: none"> Contribution towards climate mitigation and adaptation by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond. 	<ul style="list-style-type: none"> Potential conflict between development under the Plan and aiming to reduce carbon emissions in line with local, national and European environmental objectives. Potential conflicts between transport emissions, including those from cars, and air quality. Potential conflicts between increased frequency of noise emissions and protection of sensitive receptors. Potential conflicts with climate adaptation measures including those relating to flood risk management.
Cultural Heritage	<ul style="list-style-type: none"> Contributes towards protection of cultural heritage elsewhere by facilitating development within the Plan area. 	<ul style="list-style-type: none"> Potential effects on protected and unknown archaeology and protected architecture arising from construction and operation activities.
Landscape	<ul style="list-style-type: none"> Contributes towards protection of wider landscape and landscape designations by facilitating development within the Plan area. 	<ul style="list-style-type: none"> Occurrence of adverse visual impacts and conflicts with the appropriate protection of designations relating to the landscape.

7.3.2 Assessment of Land Use Zoning Alternatives

Land Use Zoning Alternative 1 “More Consolidated, More Compact”

Population growth targets for Newcastle West are already provided for under the Core Strategy of the Limerick Development Plan 2022-2028. The Local Area Plan is required to provide for the zoning of sufficient lands in order to meet this target. Land Use Zoning Alternative 1 “More Consolidated, More Compact” would zone sufficient lands to allow Newcastle West to reach population allocation, resulting in balanced orderly development and implementation of the core strategy as contained in Chapter 2 of the Limerick Development Plan 2022-2028.

The more compact, serviced/serviceable land and infrastructure assessment approach under this alternative would allow for water supply, waste water, compact growth, public transport and co-ordinated development considerations to be integrated into the Plan to the highest degree. Gaps in infrastructure are identified and new development must ensure appropriate protection of the environment.

Less new infrastructure would be required than would be the case for Alternative 2 “Less Consolidated, Less Compact” – reducing the occurrence of potential direct impacts from new infrastructure and potential shortfalls.

The development of the Town Centre would be more compact and more sustainable under this scenario and would support the longer-term viability of the settlement. At least 30% of all new housing development is delivered within existing built-up areas and on infill, brownfield and backland sites. The quantum of New Residential lands would be significantly lower than would be the case under Land Use Zoning Alternative 2 “Less Consolidated, Less Compact”. Furthermore, Enterprise and Employment zoned lands would be more compact and would be closer to existing infrastructure. The approach would avoid unnecessary greenfield development (and associated effects on components including soil, ecology, water and the landscape) in more peripheral locations and help to maximise opportunities for sustainable mobility (reducing emissions to air).

Opportunity sites would be identified with clear guidance on design and proposed uses identified – making successful applications for the sustainable, compact development of the town more likely.

The approach under Land Use Zoning Alternative 1 “More Consolidated, More Compact” would benefit the protection and management of various environmental components. Although potentially adverse effects associated with land use development would exist, they would be mitigated to a significant degree.

Land Use Zoning Alternative 2 “Less Consolidated, Less Compact”

Population growth targets for Newcastle West are already provided for under the Core Strategy of the Limerick Development Plan 2022-2028. The Local Area Plan is required to provide for the zoning of sufficient lands in order to meet this target. Land Use Zoning Alternative 2 “Less Consolidated, Less Compact” would zone excess lands, allowing Newcastle West to reach the population target; however, the over provision of zoned lands would be likely to result in less balanced and less orderly development.

By not following a more compact, serviced/serviceable land and infrastructure assessment approach, this alternative would not allow for water supply, waste water, compact growth, public transport and co-ordinated development considerations to be integrated into the Plan to the highest degree. More new infrastructure would be required than would be the case for Alternative 1 “More Consolidated, More Compact” – increasing the occurrence of potential direct impacts from new infrastructure and potential shortfalls.

The development of the Town Centre would be less compact and less sustainable under this scenario and would not optimally support the longer-term viability of the settlement to the same degree as would be the case with Land Use Zoning Alternative 1. At least 30% of all new housing development within existing built-up areas and on infill, brownfield and backland sites would be less likely to be achieved. The quantum of New Residential lands would be significantly higher than would be the case under Land Use Zoning Alternative 1. The additional New Residential lands would be on more peripheral, less well serviced lands. Furthermore, Enterprise and Employment zoned lands would be less compact, including additional lands to the north west of the town. The approach would provide for unnecessary greenfield development (and associated effects on components including soil, ecology, water and the landscape) in more peripheral locations and help to maximise opportunities for sustainable mobility (reducing emissions to air).

The approach under Land Use Zoning Alternative 2 “Less Consolidated, Less Compact” would miss an opportunity to mitigate potentially adverse effects on various environmental components arising from land use development in Newcastle West.

Land Use Zoning Alternatives are assessed against Strategic Environmental Objectives on Table 7.4.

Table 7.4 Assessment of Land Use Zoning Alternatives against Strategic Environmental Objectives

Alternative (selected alternative indicated in bold)	Likely to Improve status of SEOs			Potential Conflict with status of SEOs - likely to be mitigated			Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	to a Greater degree	to a Moderate degree	to a Lesser degree	to a Lesser degree	to a Moderate degree	to a Greater degree		0
Alternative 1 “More Consolidated, More Compact”	BFF PHH S W MA A C CH L			BFF PHH S W MA A C CH L				
Alternative 2 “Less Consolidated, Less Compact”			BFF PHH S W MA A C CH L			BFF PHH S W MA A C CH L		

The Selected Land Use Zoning Alternative for the Draft Plan and the adopted Plan is Land Use Zoning Alternative 1 “More Consolidated, More Compact”.

7.3.3 Assessment Transport Alternatives

Transport Alternative 1 “Preparation of a Local Transport Plan and integrating a Focus on Mitigation at Plan and Project level”

Transport Alternative 1 would involve the preparation of a Local Transport Plan that would be integrated into the Local Area Plan to provide for the planning and delivery of in the town. The preparation and integration into the Local Area Plan of a Local Transport Plan would provide a more coordinated and more orderly provision of transport infrastructure and services with delivery of projects, and associated benefit with respect to sustainable mobility, emissions and compact development, more likely.

Alternative 1 would require transport infrastructure projects that are not already permitted or provided for by existing plans/ programmes to be subject to feasibility assessment and, where feasibility is established, a Corridor and Route Selection Process. Under Alternative 1 new transport infrastructure would be considered subject to environmental constraints, including those related to habitats and potential impacts (e.g. disturbance from lighting). This would include minimising river crossings, avoiding sensitive habitats, not increasing barriers to flood waters and sustainable design and construction techniques. By focusing on mitigation at both plan and project levels, Alternative 1 would offer the most certainty for environmental protection and management and would be more likely to result in important individual projects (relating to sustainable mobility and emissions/energy objectives) receiving permission.

Transport Alternative 2 “Focus on Mitigation at Project level only”

Transport Alternative 2 would not involve the preparation of a Local Transport Plan that would be integrated into the Local Area Plan to provide for the planning and delivery of transport infrastructure and services in the town. Not preparing and integrating a Local Transport Plan into the Local Area Plan would provide a less coordinated and less orderly provision of transport infrastructure and services with delivery of projects, and associated benefit with respect to sustainable mobility, emissions and compact development, less likely.

The provision of new transport infrastructure, with all additional environmental mitigation left to be defined in the future, at project level (Alternative 2) would offer the least certainty for environmental protection and management and would be more likely to result in important individual projects (relating to sustainable mobility and emissions objectives) not been given permission.

Transport alternatives are assessed against Strategic Environmental Objectives on Table 7.5.

Table 7.5 Assessment of Transport Alternatives against Strategic Environmental Objectives

Alternative (selected alternative indicated in bold)	Likely to Improve status of SEOs			Potential Conflict with status of SEOs - likely to be mitigated			Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	to a Greater degree	to a Moderate degree	to a Lesser degree	to a Lesser degree	to a Moderate degree	to a Greater degree		0
Alternative 1 “Preparation of a Local Transport Plan and integrating a Focus on Mitigation at Plan and Project level”	BFF PHH S W MA A C CH L			BFF PHH S W MA A C CH L				
Alternative 2 “Focus on Mitigation at Project level only”			BFF PHH S W MA A C CH L			BFF PHH S W MA A C CH L		

The Selected Transport Alternative for the Draft Plan and the adopted Plan is Transport Alternative 1 “Preparation of a Local Transport Plan and integrating a Focus on Mitigation at Plan and Project level”.

Section 8 Evaluation of Plan Provisions

8.1 Introduction

This section provides an assessment of environmental effects using the information on the current state of the environment (provided in Section 4) and the Strategic Environmental Objectives (see Table 8.1) from implementation of the Plan.

Plan provisions (and, in Section 7, the alternatives) are evaluated using compatibility criteria (see Table 8.2 below) in order to determine how they would be likely to affect the status of the existing environment and the SEOs. The SEOs and the Plan provisions (and, in Section 7, the alternatives) are arrayed against each other in order to demonstrate which interactions would cause effects on specific components of the environment. Where the appraisal identifies an interaction with the status of an SEO the relevant SEO code is entered into the relevant column.

The interactions identified are reflective of likely significant environmental effects:

- Interactions that would be *likely to improve the status* of a particular SEO would be likely to contribute towards a significant positive effect on the environmental component to which the SEO relates, including in-combination with the existing statutory planning/decision-making and consent-granting framework.
- Interactions that would *potentially conflict with the status of an SEO and would be likely to be mitigated* would be likely to result in potential significant negative effects; however, these effects will be mitigated by measures which have been integrated into the Plan, or associated Development Plan, and residual effects would not be significant (see Table 8.3 of this report).
- Interactions that would probably *conflict with the status of an SEO and would be unlikely to be mitigated* would be likely to result in a significant residual negative effect on the environmental component to which the SEO relates.

Effects considered include secondary, cumulative, synergistic, short, medium and long-term permanent and temporary, positive and negative effects.

The degree of significance of effects occurring cannot be fully determined at this level of decision making due to the lack of exact detail available with regard to the type or scale of development that will be permitted under the Plan. However, a strategic assessment can be undertaken.

Table 8.1 Strategic Environmental Objectives⁵⁶

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives
Biodiversity, Flora and Fauna	BFF	No net contribution to biodiversity losses or deterioration	<ul style="list-style-type: none"> Protect, conserve and enhance habitats, species and areas of regional and local importance, including aquatic habitats and species and promote the sustainable management of ecological networks. Ensure the continued conservation of the Natura 2000 sites, Natural Heritage and Proposed Natural Heritage sites. These sites are important, both as an amenity and natural history resource. Safeguard national, regional and local designated sites and supporting features which function as stepping stones for migration, dispersal and genetic exchange of wild species Enhance biodiversity in line with the National Biodiversity Strategy and its targets To protect, maintain and conserve the County's natural capital
Population and Human Health	PHH	Improve quality of life for all ages and abilities based on high-quality, serviced, well connected and sustainable residential, working, educational and recreational environments	<ul style="list-style-type: none"> Facilitate a good standard of quality of life for the population through ensuring high quality residential, recreational and working environments Provide policy support for the provision of suitable infrastructure and facilities for the local population Promote economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management Ensure that existing population and planned growth is matched with the required public infrastructure and the required services Safeguard the County's citizens from environment-related pressures and risks to health and well-being
Soil (and Land)	S	Ensure the long-term sustainable management of land	<ul style="list-style-type: none"> Place an emphasis on the development of brownfield sites rather than greenfield sites. By reducing the possible development of greenfield sites this makes a positive contribution to soil conservation This can also be achieved through the sensitive reuse of existing buildings, reducing the need for new build Protect geological sites within the plan area Protect soils against pollution, and prevent degradation of the soil resource Promote the sustainable use of infill and brownfield sites over the use of greenfield within the County Safeguard areas of prime agricultural land and designated geological sites
Water	W	Protection, improvement and sustainable management of the water resource	<ul style="list-style-type: none"> Ensure that wastewater infrastructure keeps pace with development proposals Ensure that the requirements of the Water Framework Directive are incorporated into the Plan Ensure that wetland and peatland sites are preserved Ensure that the status of water bodies is protected, maintained and improved in line with the requirements of the Water Framework Directive Ensure water resources are sustainably managed to deliver proposed regional and County growth targets in the context of existing and projected water supply and wastewater capacity constraints ensuring the protection of receiving environments Avoid inappropriate zoning and development in areas at risk of flooding and areas that are vulnerable to current and future erosion, particularly coastal areas Integrate sustainable water management solutions (such as SuDS, porous surfacing and green roofs) into development proposals
Material Assets	MA	Sustainable and efficient use of natural resources	<ul style="list-style-type: none"> Maintain sustainable access to assets such as open spaces, water resources and all other physical and social infrastructure Ensure that there is adequate policy support for infrastructural provision in the plan area Optimise existing infrastructure and provide new infrastructure to match population distribution proposals in the County - this includes transport infrastructure Ensure access to affordable, reliable, sustainable and modern energy for all which encourages a broad energy generation mix to ensure security of supply – wind, solar, hydro, biomass, energy from waste and traditional fossil fuels Promote the circular economy, reduce waste, and increase energy efficiencies

⁵⁶ See also Section 5

Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives
			<ul style="list-style-type: none"> • Ensure there is adequate sewerage and drainage infrastructure in place to support new development • Reduce the energy demand from the transport sector and support moves to electrification of road and rail transport modes • Encourage the transition to a zero-carbon economy by facilitating the development of a grid infrastructure to support renewables and international connectivity. Reduce the average energy consumption per capita including promoting energy efficient buildings, retrofitting, smart- buildings, cities and grids
Air	A	Support clean air policies that reduce the impact of air pollution on the environment and public health	<ul style="list-style-type: none"> • To avoid deterioration of air quality in the plan area • To avoid, prevent or reduce harmful effects on human health and the environment as a whole resulting from emissions to air from all sectors with particular reference to emissions from transport, residential heating, industry and agriculture • Maintain and promote continuing improvement in air quality through the reduction of emissions and promotion of renewable energy and energy efficiency • Promote continuing improvement in air quality • Reduction of emissions of sulphur dioxide, nitrogen oxides, volatile organic compounds, ammonia and fine particulate matter which are responsible for acidification, eutrophication and ground-level ozone pollution • Meet Air Quality Directive standards for the protection of human health — Air Quality Directive • Significantly decrease noise pollution by 2020 and move closer to WHO recommended levels
Climatic Factors	C	Achieving transition to a competitive, low carbon, climate-resilient economy that is cognisant of environmental impacts	<ul style="list-style-type: none"> • To increase energy efficiency and the proportion of energy generated from renewable sources and where necessary to ensure the sensitive application of energy saving measures to the historic built fabric • To include climate action concerns into the plan policies • To minimise emissions of greenhouse gasses • Integrate sustainable design solutions into the County's infrastructure (e.g. energy efficient buildings; green infrastructure) • Contribute towards the reduction of greenhouse gas emissions in line with national targets • Promote development resilient to the effects of climate change • Promote the use of renewable energy, energy efficient development and increased use of public transport
Cultural Heritage	CH	Safeguard cultural heritage features and their settings through responsible design and positioning of development	<ul style="list-style-type: none"> • Protect and conserve features of archaeological heritage and their setting • Protect conserve and promote the sustainable reuse of architectural heritage • Conserve and record those aspects of cultural heritage that may be affected by planning related activities
Landscape	L	Protect and enhance the landscape character	<ul style="list-style-type: none"> • Protect and conserve the quality, character and distinctiveness of the Limerick landscape both urban and rural • Retain the protected views in the Development Plan • To implement the framework for identification, assessment, protection, management and planning of landscapes having regard to the European Landscape Convention

Table 8.2 Criteria for appraising the effect of the Plan provisions on SEOs

Likely to Improve status of SEOs +	Potential Conflict with status of SEOs - likely to be mitigated -	Probable Conflict with status of SEOs - unlikely to be mitigated -	No Likely interaction with status of SEOs 0
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8.2 Cumulative Effects⁵⁷

Cumulative effects are one of the types of effects which have been considered by the assessment of the alternatives. Cumulative effects can be described as the addition of many small impacts to create one larger, more significant, impact.

There are two types of potential cumulative effects that have been considered, namely:

- Potential *intra-Plan* cumulative effects - these arise from the interactions between different types of potential environmental effects resulting from a plan, programme, etc. Where there are elevated levels of environmental sensitivities (such as those identified under Section 4), future development could result in environmental conflicts and lead to a deterioration in environmental integrity. The interrelationships between environmental components that help determine these potential effects are identified on Table 8.4 e.g. interrelationships between: human health and water quality; human health and air quality; human health and flood risk; and ecology and water quality.
- Potential *inter-Plan* cumulative effects - these arise when the effects of the implementation of one plan occur in combination with those of other plans, programmes, developments, etc.

Effects that may arise as a result of implementing the Plan have been mitigated to the extent that the only residual adverse effects likely to occur as a result of implementation of the Plan are those which are identified under Table 8.3.

Other policies, plans and programmes that have been considered by the assessment of effects include those which are detailed under Section 2.5 (and associated Appendix I "Relationship with Legislation, Plans and Programmes"), Section 4 and Section 5. Plans and programmes from various sectors will interact with the Plan, including those relating to land use planning. These plans and programmes are subject to their own environmental assessment requirements as relevant. Examples include:

- Land use policy, plans and programmes (e.g. the National Planning Framework, the Southern Regional Spatial and Economic Strategy, the Limerick Development Plan 2022-2028, adjoining County Development Plans and Local Area Plans);
- Limerick Local Economic and Community Plan and the Local Economic and Community Plans of adjoining counties;
- Energy policy, plans and programmes (e.g. Grid25 and associated Implementation Programme, Ireland's National Renewable Energy Action Plan 2010, Strategy for Renewable Energy 2012-2020, Offshore Renewable Energy Development Plan, Draft National Energy and Climate Plan 2021-2030 and the Renewable Electricity Policy and Development Framework);
- Climate related policy, plans and programmes (e.g. the National Climate Policy Position and Climate Action 2014, Climate Action and Low Carbon Development Act 2015, as amended, Climate Action Plan 2023, National Mitigation Plan 2017, the National Adaptation Framework 2018 and the Limerick Climate Change Adaptation Strategy 2019-2024);
- Water services, waste management, transport and energy infrastructure plans (e.g. Uisce Éireann's Water Services Strategic Plan and associated Capital Investment Plan, Southern Regional Waste Management Plan and Transportation Policies and Strategies); and
- Environmental protection and management plans (e.g. River Basin Management Plans and Flood Risk Management Plans).

Potential cumulative/in combination effects include:

- Contributions towards reductions in travel related greenhouse gas and other emissions to air, reductions in consumption from non-renewables and associated achievement of legally binding targets (in combination with plans and programmes from all sectors, including energy, transport and land use planning) as a result of facilitating:
 - sustainable compact growth;

⁵⁷ The EPA's guidance note 'Good Practice Guidance note on cumulative effects assessment in SEA' has been considered in the assessment.

- sustainable mobility/a shift from motorised transport modes to more sustainable and non-motorised transport modes; and
- renewable energy development.
- Contributions towards travel related greenhouse gas and other emissions to air (in combination with plans and programmes from all sectors, including transport and land use planning) as a result of facilitating development which must be accompanied by road capacity;
- Facilitation of new development that is accompanied by appropriate levels of water services thereby contributing towards environmental protection;
- Need for and use of water and waste water treatment capacity arising from new developments and associated potential adverse effects;
- Potential cumulative effects upon surface and ground water status as a result of, for example, housing, employment and agricultural development – loadings and abstractions;
- Potential cumulative effects (habitat damage, enhancing ecological connectivity, contributing towards sustainable mobility) arising from linear developments, such as those relating to green infrastructure, including beyond the Plan boundary;
- Potential cumulative effects on flood risk by, for example, development of greenfield lands or obstruction of flood paths; and
- In combination with plans and programmes from all sectors potential adverse effects on all environmental components arising from all development in greenfield and brownfield areas (e.g. infrastructural, residential, economic, agricultural etc.). The type of these effects are consistent with those described on Table 8.3. These plans and programmes are required to comply with environmental legislation and undergo SEA and AA as relevant comply with environmental legislation while projects are subject to EIA and AA, as relevant.

These effects would have the potential, if unmitigated, if they occurred, to result in changes in the environment within and beyond the Plan area.

A variety of the issues covered by the Plan provisions are regional and county issues which are considered: at Regional Assembly level, in the Southern RSES and by planning authorities across the Region; and at County level, including through the Limerick Development Plan 2022-2028. The solutions to these issues are often regional solutions which are subject their own consenting procedures. Works arising outside of the Plan area as a result of providing for new development within the Plan area, including works arising as a result of the cumulative provision of development in the wider County and wider Southern region, would potentially conflict with a number of environmental components, across the wider County and wider Southern region and beyond, including: ecology, soil function, the status of water bodies and the landscape. Some of these conflicts would be mitigated by measures which will be integrated into the Plan while some will be mitigated by measures arising out of separate consent procedures.

8.3 Overall Evaluation

Limerick City and County Council have integrated various recommendations arising from the SEA process into the Plan (see Section 9). Table 8.3 provides a detailed overall evaluation of the environmental effects arising from the Plan. The effects encompass all in-combination/cumulative effects arising from implementation of the Plan. The potentially significant adverse environmental effects (if unmitigated) arising from implementation of the Plan are detailed as are residual effects, taking into account mitigation integrated into both the Plan and the Limerick Development Plan 2022-2028 – see Section 9.

Environmental impacts which occur will be determined by the nature and extent of multiple or individual projects and site-specific environmental factors. Strategic Environmental Objective (SEO) codes are taken from Table 8.1.

Table 8.3 Overall Evaluation – Effects arising from the Plan

Environmental Component	Environmental Effects, in combination with the wider planning framework Effects include in-combination effects that are planned for through the wider planning framework including the NPF and associated NDP, the Southern RSES, the Limerick Development Plan 2022-2028 and adjacent Development Plans and lower-tier land use plans.			SEO Codes
	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated	Likely Residual Adverse Non-Significant Effects	
Biodiversity and Flora and Fauna	<ul style="list-style-type: none"> Contribution towards protection of ecology (including designated sites, ecological connectivity, habitats) by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond. Contribution towards the maintenance of existing green infrastructure and associated ecosystem services, listed species, ecological connectivity and non-designated habitats. Contribution towards protection and/or maintenance of biodiversity and flora and fauna by contributing towards the protection of natural capital including the environmental vectors of air, water and soil. Biodiversity and flora and fauna includes biodiversity in designated sites (including European Sites and Wildlife Sites) and Annexed habitats and species (including birds and bats), listed/protected species, ecological connectivity and non-designated habitats (including terrestrial and aquatic habitats), and disturbance to biodiversity and flora and fauna – including terrestrial and aquatic biodiversity and flora and fauna. Sustains existing sustainable rural management practices – and the communities who support them – to ensure the continuation of long-established managed landscapes and the flora and fauna that they contain. 	<p>Arising from both construction and operation of development and associated infrastructure:</p> <ul style="list-style-type: none"> Loss of/damage to biodiversity in designated sites (including European Sites and Wildlife Sites) and Annexed habitats and species, listed species, ecological connectivity and non-designated habitats; and disturbance to biodiversity and flora and fauna; Habitat loss, fragmentation and deterioration, including patch size and edge effects; and Disturbance (e.g. due to noise and lighting along transport corridors) and displacement of protected species such as birds (e.g. swifts and owls) and bats. 	<ul style="list-style-type: none"> Loss of an extent of non-protected habitats and species arising from the replacement of semi-natural land covers with artificial surfaces. Losses or damage to ecology (these would be in compliance with relevant legislation). 	BFF

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Environmental Component	Environmental Effects, in combination with the wider planning framework			SEO Codes
	Effects include in-combination effects that are planned for through the wider planning framework including the NPF and associated NDP 2018, the Southern RSES, adjacent Development Plans and lower-tier land use plans.			
	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated	Likely Residual Adverse Non-Significant Effects	
Population and Human Health	<ul style="list-style-type: none"> • Promotion of economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management. • Contribution towards appropriate provision of infrastructure and services to existing population and planned growth by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond • Contribution towards the protection of human health by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond. • Contributes towards protection of human health as a result of contributing towards the protection of natural capital including environmental vectors, including air and water. 	<ul style="list-style-type: none"> • Potential adverse effects arising from flood events. • Potential interactions if effects arising from environmental vectors. 	<ul style="list-style-type: none"> • Potential interactions with residual effects on environmental vectors – please refer to residual adverse effects under “Soil”, “Water” and “Air and Climatic Factors” below. 	PHH
Soil	<ul style="list-style-type: none"> • Contribution towards the protection of soils (including those used for agriculture) and designated sites of geological heritage by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-served lands elsewhere in the Plan area and beyond. • Contribution towards the protection of the environment from contamination the highest standards of remediation, and where appropriate to consultations with the EPA and other relevant bodies, will be required to resolve any instances of environmental pollution created by contaminated land. 	<ul style="list-style-type: none"> • Potential adverse effects on the hydrogeological and ecological function of the soil resource, including as a result of development on contaminated lands. • Potential for riverbank erosion. 	<ul style="list-style-type: none"> • Loss of an extent of soil function arising from the replacement of semi-natural land covers with artificial surfaces. • Riverbank erosion will continue to occur naturally over time and is likely to be enhanced by climate change. 	S

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Environmental Component	Environmental Effects, in combination with the wider planning framework Effects include in-combination effects that are planned for through the wider planning framework including the NPF and associated NDP 2018, the Southern RSES, adjacent Development Plans and lower-tier land use plans.			SEO Codes
	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated	Likely Residual Adverse Non-Significant Effects	
Water	<ul style="list-style-type: none"> Contribution towards the protection of water by facilitating development of lands (including those within and adjacent to the Plan area) that have relatively low levels of environmental sensitivities and are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop more sensitive, less well-serviced lands elsewhere in the Plan area and beyond. Contributions towards the protection of water resources including the status of surface and groundwaters and water-based designations. Contribution towards flood risk management and appropriate drainage. 	<ul style="list-style-type: none"> Potential adverse effects upon the status of water bodies and entries to the WFD Register of Protected Areas (ecological and human value), arising from changes in quality, flow and/or morphology. Increase in flood risk and associated effects associated with flood events. 	<ul style="list-style-type: none"> Any increased loadings as a result of development to comply with the River Basin Management Plan. Flood related risks remain due to uncertainty with regard to extreme weather events – however such risks will be mitigated by measures that have been integrated into the Plan. 	W
Material Assets	<ul style="list-style-type: none"> Contribution towards appropriate provision of infrastructure and services to existing population and planned growth by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-serviced lands elsewhere in the Plan area and beyond. Contribution towards compliance with national and regional water services and waste management policies. Contribution towards increase in renewable energy use by facilitating renewable energy and electricity transmission infrastructure developments. Contribution towards limits in increases in energy demand from the transport sector by facilitating sustainable compact growth. Contribution towards reductions in average energy consumption per capita including promoting energy efficient buildings, retrofitting, smart buildings and grids. 	<ul style="list-style-type: none"> Failure to provide adequate and appropriate waste water treatment (water services infrastructure and capacity ensures the mitigation of potential conflicts). Failure to adequately treat surface water run-off that is discharged to water bodies (water services infrastructure and capacity ensures the mitigation of potential conflicts). Failure to comply with drinking water regulations and serve new development with adequate drinking water (water services infrastructure and capacity ensures the mitigation of potential conflicts). Increases in waste levels. Potential impacts upon public assets and infrastructure. Interactions between agricultural waste and soil, water, biodiversity and human health – including as a result of emissions of ammonia from agricultural activities (e.g. manure handling, storage and spreading) and the production of secondary inorganic particulate matter. 	<ul style="list-style-type: none"> Exceedance of capacity in critical infrastructure risks remain, including due to uncertainty with regard to climate – however, such risks will be mitigated by: measures, including those requiring the timely provision of critical infrastructure, and compliance with the Water Framework Directive and associated River Basin Management Plan. Residual wastes to be disposed of in line with higher-level waste management policies. Any impacts upon public assets and infrastructure to comply with statutory planning/consent-granting framework. 	MA

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Environmental Component	Environmental Effects, in combination with the wider planning framework Effects include in-combination effects that are planned for through the wider planning framework including the NPF and associated NDP 2018, the Southern RSES, adjacent Development Plans and lower-tier land use plans.			SEO Codes
	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated	Likely Residual Adverse Non-Significant Effects	
Air and Climatic Factors	<ul style="list-style-type: none"> • Contribution towards climate mitigation and adaptation by facilitating compact development of lands (including those within and adjacent to the Plan area) that are served (or can be more easily served) by infrastructure and services, thereby helping to avoid the need to develop less well-served lands elsewhere in the Plan area and beyond. • In combination with other plans, programmes etc., contribution towards the objectives of the wide policy framework relating to climate mitigation and adaptation, and associated contribution towards maintaining and improving air quality and managing noise levels, including through measures relating to: <ul style="list-style-type: none"> ○ Sustainable compact growth; ○ Sustainable mobility, including walking, cycling and public transport; ○ Drainage, flood risk management and resilience; ○ Sustainable design, energy efficiency and green infrastructure. 	<ul style="list-style-type: none"> • Potential conflict between development under the Plan and aiming to reduce carbon emissions in line with local, national and European environmental objectives. • Potential conflicts between transport emissions, including those from cars, and air quality. • Potential conflicts between increased frequency of noise emissions and protection of sensitive receptors. • Potential conflicts with climate adaptation measures including those relating to flood risk management. 	<ul style="list-style-type: none"> • An extent of travel related greenhouse gas and other emissions to air. This has been mitigated by provisions which have been integrated into the Plan, including those relating to sustainable compact growth and sustainable mobility. • Interactions between noise emissions and sensitive receptors. Various provisions have been integrated into the Plan to ensure that noise levels at sensitive receptors will be minimised. 	AC
Cultural Heritage	<ul style="list-style-type: none"> • Contributes towards protection of cultural heritage elsewhere by facilitating development within the Plan area. • Contributes towards protection of cultural heritage within the Plan area by facilitating brownfield development and regeneration. 	<ul style="list-style-type: none"> • Potential effects on protected and unknown archaeology and protected architecture arising from construction and operation activities. 	<ul style="list-style-type: none"> • Potential effects on known architectural and archaeological heritage and unknown archaeology however, these will occur in compliance with legislation. 	CH
Landscape	<ul style="list-style-type: none"> • Contributes towards protection of wider landscape and landscape designations by facilitating development within the Plan area. 	<ul style="list-style-type: none"> • Occurrence of adverse visual impacts and conflicts with the appropriate protection of designations relating to the landscape. 	<ul style="list-style-type: none"> • Landscapes will change overtime as a result of natural changes in vegetation cover combined with new developments that will occur in compliance with the Plan's landscape protection measures. 	L

8.4 Appropriate Assessment and Strategic Flood Risk Assessment

Appropriate Assessment (AA) Screening and Stage 2 AA have been undertaken alongside the preparation of the Plan. The requirement for AA is provided under the EU Habitats Directive (Directive 1992/43/EEC). As part of the AA Screening process, the Council determined that it could not be excluded, on the basis of objective information, that the emerging Draft Plan, individually, or in combination with other plans and projects would have a likely adverse effect on the integrity of a European Site. Therefore, Stage 2 AA was required. The conclusion of the Stage 2 AA is that, following the application of mitigation, the Plan will not affect the integrity of the European Sites, alone or in combination with other plans or projects.⁵⁸

A Strategic Flood Risk Assessment (SFRA) document accompanies this SEA Environmental Report and the Plan. Requirements in relation to SFRA are provided under 'The Planning System and Flood Risk Management Guidelines for Planning Authorities' (Department of Environment and Office of Public Works, 2009) and associated Department of the Environment, Community and Local Government Circular PL2/2014. Flood risk management and drainage provisions are already in force through the Development Plan and related provisions have been integrated into the LAP. In addition, land use zoning contained within the Plan has been informed by the SFRA process and associated delineation of flood risk zones.

Various policies and objectives have been integrated into the Plan through the SEA, SFRA and AA processes.

8.5 Interactions with Climate Mitigation and Adaptation

As detailed in the Local Area Plan, Limerick City and County Council has a Climate Change Adaption Strategy that concentrates on dealing with the effects of climate change addressing adaption to minimise the effects of climate change such as extreme weather events and greenhouse gas emissions.

Through the policies and objectives set out in the NPF and RSES, Climate Adaptation and Mitigation measures are embedded in the Plan-making process. The Local Area Plan has been prepared with the purpose of integrating and implementing these policies and provisions where relevant. There are a number of ways in which a Local Area Plan can help reduce carbon footprint and mitigate against negative impacts of climate change, these include:

- The provision of green/blue infrastructure (planting of trees, hedgerows, woodlands, construction of surface water retention features such as ponds, lakes or swales);
- Climate proofing the design of buildings and neighbourhoods;
- Use of indigenous resources and adoption of new building techniques and designs that minimize energy intensive inputs;
- Improving energy performance ratings on existing and new buildings. All new homes constructed must reach an energy performance rating in accordance with Part L – Conservation of Fuel and Energy 2019, which gives effect to Nearly Zero Energy Buildings (NZEB) Regulations.

Measures have been integrated into the Local Area Plan that contribute towards climate action with respect to these issues.

⁵⁸ Except as provided for in Article 6(4) of the Habitats Directive, viz. There must be:
 (a) no alternative solution available,
 (b) imperative reasons of overriding public interest for the plan to proceed; and
 (c) adequate compensatory measures in place.

8.6 Interrelationship between Environmental Components

The SEA Directive requires the Environmental Report to include information on the likely significant effects on the environment, including on issues such as biodiversity, fauna, flora, population, human health, soil, water, air, climatic factors, material assets, cultural heritage including architectural and archaeological heritage, landscape and the interrelationship between the above factors.

Likely significant effects on environmental components which are identified include those which are interrelated; implementation of the Plan will not affect the interrelationships between these components. The presence of significant interrelationships between environmental components is identified on Table 8.4.

Table 8.4 Presence of Interrelationships between Environmental Components

Component	Biodiversity, flora and fauna	Population and human health	Soil	Water	Air and Climatic factors	Material assets	Cultural heritage	Landscape
Biodiversity, flora and fauna		Yes	Yes	Yes	Yes	Yes	No	Yes
Population and Human Health			Yes	Yes	Yes	Yes	No	No
Soil				Yes	No	Yes	No	No
Water					No	Yes	No	No
Air and Climatic Factors						Yes	No	No
Material Assets							Yes	Yes
Cultural Heritage								Yes
Landscape								

8.7 Detailed Evaluation

For an explanation of SEO codes e.g. **BFF, PHH, S, W**, etc. refer to Table 8.1 on page 64.

The following applies to each of the sub-sections 8.7.1 to 8.7.8.

The Plan is situated in a hierarchy of documents setting out public policy setting out public policy for, among other things, land use planning, infrastructure, sustainable development, tourism, environmental protection and environmental management, such as the National Planning Framework, the National Development Plan, the National Mitigation Plan, the National Adaptation Framework, the Climate Action Plan, the Regional Spatial and Economic Strategy for the Southern Region and the Limerick Development Plan 2022-2028 (for additional detail please refer to Section 2.5 "Relationship with other relevant Plans and Programmes" in this report).

These other existing policies, plans etc. have been subject to their own environmental assessment processes, as relevant, and already provide for various measures that have been compiled into the Plan. The Plan aligns with these documents and will be incorporated into the review and preparation of these documents.

Lower tier plans and projects must be consistent and comply with the provisions of the Plan and of these other policies, plans etc. and will be subject to their own project level EIA and AA requirements as relevant. An assessment of cumulative effects is provided at Section 8.2 of this report.

8.7.1 Chapter 3: Development Strategy

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs - likely to be mitigated	Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to the Plan's Development Strategy, including: the Plan's Strategic Vision and Spatial Development Strategy, and associated Strategic Development Objectives; provisions relating to Population and Housing Growth; the Plan's Residential Development Strategy; and Placemaking. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the provisions of this chapter against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town's sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.</p>				

The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 "Mitigation Measures" of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:

- The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and
- The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised.

The provisions contained within Chapter 3 will contribute towards the sustainable development of the Plan area and the protection and management of the environment.

8.7.2 Chapter 4: Town Centre First

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs - likely to be mitigated	Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to town centre first issues and opportunity sites. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the Plan's Town Centre First provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town's sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.</p> <p>The provisions in this Chapter would contribute towards the vibrancy, diversity, vitality, attractiveness, safety, liveability and compact growth of Newcastle West Town Centre, contributing towards sustainable urban design, place-making and connectivity.</p> <p>The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 "Mitigation Measures" of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:</p> <ul style="list-style-type: none"> • The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and • The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised. <p>The provisions contained within Chapter 4 will contribute towards the sustainable development of the Plan area and the protection and management of the environment.</p>				

8.7.3 Chapter 5: Sustainable Communities

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs – likely to be mitigated	Probable Conflict with status of SEOs – unlikely to be mitigated	No Li-ely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to sustainable communities, including education and childcare, health, community and cultural facilities, parks, open space and recreation and being age friendly. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the Plan’s Sustainable Communities provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town’s sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.</p> <p>The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 “Mitigation Measures” of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:</p> <ul style="list-style-type: none"> • The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and • The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised. <p>The provisions contained within Chapter 5 will contribute towards the sustainable development of the Plan area and the protection and management of the environment.</p>				

8.7.4 Chapter 6: Economic Development and Tourism

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs – likely to be mitigated	Probable Conflict with status of SEOs – unlikely to be mitigated	No Likely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to enterprise and tourism. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the Plan's Economic Development and Tourism provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town's sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.</p> <p>The provisions in this Chapter of the Plan support land use activities and developments relating to tourism – and would have the potential to contribute towards an increase in the number and dwell time of visitors and associated potential adverse effects. Such effects would include in-combination effects arising from services and infrastructure to service development, including tourism. Examples may include developments/operation of developments relating to water services, transport, energy, access or accommodation. The mitigation of potential adverse effects arising would be contributed towards by Plan provisions including those relating to infrastructure capacity, green infrastructure and ecosystem services.</p> <p>The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 "Mitigation Measures" of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:</p> <ul style="list-style-type: none"> • The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and • The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised. <p>The provisions contained within Chapter 6 will contribute towards the sustainable development of the Plan area and the protection and management of the environment.</p>				

8.7.5 Chapter 7: Sustainable Mobility and Transport

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs - likely to be mitigated	Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to movement, accessibility, the Local Transport Plan, modal shift and targets, public transport, walking and cycling and roads. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the Plan’s Sustainable Mobility provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town’s sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.</p> <p>The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 “Mitigation Measures” of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:</p> <ul style="list-style-type: none"> • The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and • The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised. <p>The provisions in this Chapter of the Plan would contribute towards the planning framework for the future development of sustainable transport and movement. Many of these provisions would primarily contribute towards maximising sustainable mobility and associated interactions with emissions to air (including noise and greenhouse gas emissions), energy usage, air quality and human health. The facilitation of journeys by car, in particular, would give rise to emissions to air.</p> <p>A Local Transport Plan has informed this chapter and is appended to the Plan. The strategic aim of the Local Transport Plan is to provide for the planning and delivery of transport infrastructure and services in the town that will:</p> <ul style="list-style-type: none"> • Co-ordinate transport and land use planning; • Reduce the demand for travel and the reliance on the private car in favour of more sustainable forms of transport; • Provide a safe and sustainable transport network; and • Identify strategic walking and cycling infrastructure to prioritise for funding. <p>The integration of the Local Transport Plan into the Local Area Plan provides a more coordinated and more orderly provision of transport infrastructure and services with delivery of projects, and associated benefits with respect to sustainable mobility, emissions and compact development.</p>				

The development of new and existing walkways/cycleways, greenways and blueways has the potential to contribute towards sustainable mobility and a better management of mobility and tourism in sensitive areas, thereby benefitting various environmental components including habitats at certain locations. The development of these projects, however, presents a variety of potentially adverse environmental effects that would, if unmitigated, have the potential to arise from both the construction and operation of such developments and/or their ancillary infrastructure. These types of infrastructure are often constructed in ecologically and visually sensitive areas adjacent to the banks of rivers and streams. Potential adverse effects would be mitigated both by measures which have been integrated into the Plan which provide for and contribute towards environmental protection, environmental management and sustainable development (including those identified at Section 9 of this report) and by measures arising from lower tier assessments (including those for the preparation of lower tier plans and projects).

Objective SMTO4 provides that "Transport infrastructure projects that are not already permitted or provided for by existing plans/programmes, shall be subject to the undertaking of feasibility assessment, taking into account planning need and the policies and objectives of the Plan relating to sustainable mobility. Where feasibility is established, a Corridor and Route Selection Process will be undertaken, where relevant appropriate, in two stages: Stage 1 – Route Corridor Identification, Evaluation and Selection; and Stage 2 – Route Identification, Evaluation and Selection. New transport infrastructure will be considered subject to environmental constraints as identified in the SEA Environmental Report, including those related to habitats and potential impacts (e.g. disturbance from lighting). This will include minimising river crossings, avoiding sensitive habitats, not increasing barriers to flood waters and sustainable design and construction techniques."

The provisions contained within Chapter 7 will contribute towards the sustainable development of the Plan area and the protection and management of the environment.

8.7.6 Chapter 8: Climate Action, Environment and Heritage

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs - likely to be mitigated	Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to climate action and the environment, natural heritage and biodiversity including blue green infrastructure and the Water Framework Directive, archaeological heritage and architectural heritage. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the Plan's Climate Action, Environment and Heritage provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town's sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities, and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. These include:</p> <ul style="list-style-type: none"> • The Climate Action Plan that identifies various climate mitigation and/or adaptation actions. • The National Planning Framework, which has identified National Strategic Outcome Objectives 8 "Build Climate Resilience" and 9 "Support the transition to low carbon and clean energy" under National Strategic Outcome 8 "Transition to a Low Carbon and Climate Resilient Society". • The Southern Regional Spatial and Economic Strategy that has identified various Regional Policy Objectives relating to climate action, including RPOs 87-107 under "Climate action and transition to a low carbon economy". 				

Provisions relating to energy, would contribute towards achieving various government objectives and targets including those relating to energy security, climate mitigation and reducing greenhouse gas emissions and increasing the amount of energy to be consumed from renewable sources. Further general commentary on the types of potential effects arising from certain renewable energy types is provided below.

Bio-Energy

Positive Effects: Contribution towards renewable energy and minimisation of greenhouse gases targets. Can provide for the use of agricultural and other wastes

Potential Negative Effects, if unmitigated:

- Potential impact upon designated and non-designated biodiversity and flora and fauna arising from changes in vegetation. Soil structure may also be impacted upon.
- Changes in farming practices may lead to changes in drainage and runoff which could impact upon biological and chemical status of waters - this could interact with drinking water sources and biodiversity
- Potential human health impact: odour and noise from operation of plants
- Potential impacts upon traffic during operation due to transportation of fuel to plants
- Fuels derived from bio-mass still produce emissions however these are less than those derived from fossil fuels
- Changes to the land cover of areas could occur however visual impacts would depend on perception of the relevant area;
- Biomass plants may have visual impacts - these would depend on perception of the relevant area

Geothermal Energy

Positive Effects: Contribution towards renewable energy and minimisation of greenhouse gases targets

Potential Negative Effects, if unmitigated:

- Potential impacts upon the status of waters and ecology contained within, especially arising from changes in the temperature of groundwater which can impact upon the structure and ecology of the aquifer and any dependent surface waters - this could interact with drinking water sources
- Potential interactions leading to change in structure of soil and geology
- Potential impacts upon archaeology, including unknown underground archaeology
- Potential impacts upon on site water services
- Potential impacts upon context of archaeological and architectural heritage arising from surface installation
- Large scale installations may have visual impacts – these would depend on perception of the relevant area

Hydro-Energy

Positive Effects: Contribution towards renewable energy and minimisation of greenhouse gases targets

Potential Negative Effects, if unmitigated:

- Depending on the scale and location of the development there is potential for impacts to occur on biodiversity, in particular aquatic biodiversity
- Potential to impact upon the morphological, biological and chemical status of waters - this could interact with drinking water sources (in freshwater) and biodiversity
- Potential interactions leading to change in structure of soil and geology
- Operation could impact upon flood risk elsewhere
- Potential impacts upon archaeological heritage or nearby architectural heritage, including context
- Changes to the character of locations may occur however visual impacts would depend upon, inter alia, the size of the installation, ancillary facilities and the perception and visibility of the relevant area

Solar Energy and Solar Thermal Energy

Positive Effects: Contribution towards renewable energy and minimisation of greenhouse gases targets

Potential Negative Effects, if unmitigated:

- Potential impacts on architectural heritage – including the context of this heritage – at micro scale
- Potential impacts on habitats and species and micro scale
- Large scale installations may have visual impacts – these would depend on perception of the relevant area -, however these are unlikely to be provided for

Waste to Energy

Positive Effects: Contribution towards renewable energy and minimisation of greenhouse gases targets. Meets waste management objectives

Potential Negative Effects, if unmitigated:

- Potential odour issues
- Construction of facilities can result in impacts similar to other built development – potential visual impact, impact on ecology, waters
- Design needs to ensure that emissions comply with relevant standards

Wind Energy

Positive Effects: Contribution towards renewable energy and minimisation of greenhouse gases targets

Potential Negative Effects, if unmitigated:

- Potential impacts include those associated with construction and operation of the turbines and ancillary facilities and infrastructure (including roads and electrical infrastructure)
- Potential human health impact: shadow flicker, noise, and impacts arising from bog bursts and landslides
- Potential impact upon designated and non-designated biodiversity and flora and fauna including birdlife
- Potential interactions leading to change in structure of soil and geology and changes to drainage
- Potential loss of soil/subsoil/geological stability, including peat slippage
- Potential erosion of peatlands as a result of wind farm and ancillary infrastructure (e.g. roads) development, alone and in combination with forestry

- Potential impacts on water status during construction – this could interact with drinking water sources and biodiversity
- Potential impacts upon the context of protected archaeological and architectural heritage – including the context of this heritage – as well as unknown archaeological heritage
- Potential impacts upon traffic during construction due to transportation of turbine components
- Changes to the character of areas would be likely to occur however visual impacts would depend on various factors including the size, number and spacing of the turbines, perception of the relevant areas and any cumulative effect arising from multiple wind farms

The development of blue green infrastructure would facilitate: contributions towards increases in sustainable mobility and reductions in greenhouse gas emissions; increases in flood risk management and protection of human health; protection and management biodiversity and water quality; and protection cultural heritage and landscape sensitivities. The development of green infrastructure also potentially conflicts with most environmental components. This type of infrastructure is often constructed in ecologically and visually sensitive areas adjacent to the banks of rivers and streams. Potential adverse effects would be mitigated both by measures which have been integrated into the Plan which provide for and contribute towards environmental protection, environmental management and sustainable development (including those identified at Section 9 of this report) and by measures arising from lower tier assessments (including those for the preparation of lower tier plans and projects).

Provisions relating to the management of flood risk and surface water drainage would benefit the protection of human health, biodiversity, flora and fauna, cultural heritage, water status and existing infrastructure and services. Flood risk management infrastructure (if required) has the potential to result in significant adverse environmental effects during construction and operation on most environmental components. These types of infrastructure are often constructed in ecologically and visually sensitive areas and adjacent to the banks of rivers and streams. Potential adverse effects will be mitigated both by measures which have been integrated into the Plan (including those identified at Section 9 of this report) and by measures arising from lower tier assessments.

The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 “Mitigation Measures” of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:

- The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and
- The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised.

The focus of many of the provisions in this Chapter is environmental protection and management – many of the provisions are repeated in Section 9 “Mitigation Measures” of this report. Please also refer to Section 8.5 “Interactions with Climate Mitigation and Adaptation”.

8.7.7 Chapter 9: Infrastructure and Utilities

	Likely to Improve status of SEOs	Potential Conflict with status of SEOs - likely to be mitigated	Probable Conflict with status of SEOs - unlikely to be mitigated	No Likely interaction with status of SEOs
	+	-	-	0
Provisions of this Chapter include those relating to water and wastewater infrastructure, surface water management and SUDS, flood risk management, energy generation, smart technology, waste management and the circular economy. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		

Commentary

The assessment of the Plan’s Infrastructure and Utilities provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:

- Environmental effects detailed under subsections 8.2 to 8.6 of this report; and
- Assessments of the selected alternatives for the Plan provided at Section 7 of this report.

Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services.

Compatible sustainable development in the town's sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.

The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.

The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 "Mitigation Measures" of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:

- The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and
- The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised.

Provisions relating to water supply, wastewater and surface/storm water drainage would, by protecting water resources, providing safe drinking water and appropriately treating waste water, contribute towards the protection of various environmental components including: human health, biodiversity and flora and fauna, the status of waters, flood risk management and soil. There would be potential for significant adverse environmental effects upon various environmental components to arise during construction of water services infrastructure. Such potential significant adverse effects could also arise during operation: the protection of human health, biodiversity and flora and fauna and the status of waters, could all be conflicted with by outflows and abstractions. Mitigation has been integrated into the both the Local Area Plan and the existing Limerick Development Plan that address these effects.

Population growth targets for Newcastle West are already provided for under the Core Strategy of the Limerick Development Plan 2022-2028. The Local Area Plan is required to provide for the zoning of sufficient lands in order to meet this target. As detailed in Section 9.1 "Water and Wastewater Infrastructure" of the Local Area Plan: "The draft 2022 wastewater treatment capacity register (WWCR) indicates there is spare capacity (ca. 400 population equivalent) to cater for a portion of the projected population growth of 1,988 over the County Development Plan period. In addition, there are a number of connection enquiries and applications being processed that may reduce available capacity further. An upgrade of Newcastle West WWTP is included in the 2020-2024 Investment Plan and is at concept design stage. The project will provide sufficient spare capacity to cater for the targeted growth. It is anticipated it will be post 2025, but within the lifetime of the Local Area Plan, before the WWTP project is completed. This will be subject to funding and other approvals." Objective IU 02 Wastewater Infrastructure provides, inter alia: "b. Ensure adequate wastewater infrastructure is available to cater for existing and proposed development, in collaboration with Uisce Éireann, avoiding any deterioration in the quality of receiving waters and ensuring discharge meets the requirements of the Water Framework Directive. This includes the separation of foul and surface water through the provision of separate networks and nature-based rainwater management measures. Applications for development under the Plan must demonstrate that the proposal for development would not adversely affect a water body's ability to meet its objectives under the Water Framework Directive, individually as a result of the proposed development or cumulatively, in combination with other developments. Evidence of consultation by developers with Uisce Éireann, prior to submitting a planning application will be required."

Flood risk management provisions would contribute towards the protection and management of human health, biodiversity, flora and fauna, cultural heritage, water status and existing infrastructure and services. Flood risk management infrastructure (if required) has the potential to result in significant adverse environmental effects during construction and operation on most environmental components. These types of infrastructure are often constructed in ecologically and visually sensitive areas and adjacent to the banks of rivers and streams. Potential adverse effects will be mitigated both by measures which have been integrated into the Plan (including those identified at Section 9 of this report) and by measures arising from lower tier assessments. SUDS can contribute towards the maintenance and improvement in the status of water bodies and flood risk management.

Supporting the sustainable development, maintenance and upgrading of electricity and gas infrastructure contributes towards the framework for the development of energy. These provisions would contribute towards achieving various government objectives and targets including those relating to climate mitigation and reducing greenhouse gas emissions and increasing the amount of energy to be consumed from renewable sources. The development of renewable energy would have the potential to adversely impact upon the environment, if unmitigated. Further general commentary on the types of potential effects arising from certain renewable energy types is provided under Section 8.7.6.

Smart technology developments have the potential to result in significant adverse effects. Mitigation integrated into the Plan will address such effects.

Waste Management provisions incorporate circular economy principles that are supported in the RSES.

The focus of many of the provisions in this Chapter is environmental protection and management – many of the provisions are repeated in Section 9 "Mitigation Measures" of this report. Please also refer to Section 8.5 "Interactions with Climate Mitigation and Adaptation".

8.7.8 Chapter 10: Land Use Zoning Framework, Zoning Matrix and Services Capacity Audit

	Likely to Improve status of SEOs +	Potential Conflict with status of SEOs - likely to be mitigated -	Probable Conflict with status of SEOs - unlikely to be mitigated -	No Likely interaction with status of SEOs 0
Provisions of this Chapter include those relating to land use zoning. For more details, please refer to the Plan.	BFF PHH S W MA A C CH L	BFF PHH S W MA A C CH L		
<p>Commentary</p> <p>The assessment of the Plan’s Land Use Zoning Objectives provisions against Strategic Environmental Objectives (SEOs BFF, PHH, S, W, MA, A, C, CH and L) is consistent with the:</p> <ul style="list-style-type: none"> • Environmental effects detailed under subsections 8.2 to 8.6 of this report; and • Assessments of the selected alternatives for the Plan provided at Section 7 of this report. <p>Implementing the Plan will help to direct incompatible development away from the most sensitive areas in the town and focus on directing compact, sustainable development within the existing envelope of the Plan area. Development of these generally more robust, well-serviced and well-connected areas of the town will contribute towards environmental protection and sustainable development, including climate mitigation and adaptation. Compact development can be accompanied by placemaking initiatives to enable the town to become a more desirable place to live – so that it maintains populations and services. Compatible sustainable development in the town’s sensitive areas is also provided for, subject to various requirements relating to environmental protection and management being met.</p> <p>The provisions in this Chapter of the Plan would contribute towards the Statutory consent granting and decision-making framework for land use developments and activities and sustainable development of the Plan area, in combination with other Plan provisions and other plans, programmes, strategies, etc. Potential adverse environmental effects arising from land use development and activities include in-combination effects arising from services and infrastructure to service development, for example those relating to water services, transport and energy.</p> <p>The SEA process that is being undertaken alongside the preparation of the Plan has brought about various changes to the emerging Plan through an iterative process. Some of these measures are reproduced under Section 9 “Mitigation Measures” of this report. By integrating SEA recommendations into the Plan, Limerick City and County Council is helping to ensure that:</p> <ul style="list-style-type: none"> • The potential significant adverse effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are avoided, reduced or offset; and • The beneficial environmental effects of implementing the Plan, in combination with implementation of other provisions from the Plan and other plans, programmes, etc., are maximised. <p>Environmental considerations were integrated into the Local Area Plan’s zoning through an interdisciplinary approach which was informed by the environmental considerations, including those identified by the SEA and SFRA processes.</p> <p>Zoning has been applied in a way that primarily seeks to achieve sustainable and compact growth, taking into account the various requirements set out in the higher-level NPF, Southern RSES and Limerick Development Plan 2022-2028.</p> <p>The detailed Plan preparation process undertaken by the Planning Department combined with specialist input from the SFRA process facilitated zoning that helps to avoid inappropriate development being permitted in areas of high flood risk. Also taken into account were environmental sensitivities relating to ecology, cultural heritage, landscape and water.</p>				

8.8 Instances whereby Environmental Considerations were not integrated into the Plan

Table 8.5 describes instances whereby environmental considerations were not integrated into the Plan by the Elected Members and the corresponding environmental advice that was provided at the time through the SEA/AA/SFRA processes.

Table 8.5 Instances whereby Environmental Considerations were not integrated into the Plan and corresponding SEA/AA/SFRA advice

Instances whereby Environmental Considerations were not integrated into the Plan	Corresponding SEA advice provided in the SEA Environmental Report that accompanied the Proposed Material Alterations on public display:
<p>Chief Executive's Recommendation: Make the Newcastle West Local Area Plan 2023-2029 without the proposed Material Alteration to provide a "New Residential" zoning on the subject lands, where a residential zoning currently exists in the current Newcastle West Local Area Plan 2014-2020 (lands at Rathnaneane between Arra View and the Paddocks).</p> <p>Decision of the Members: To not accept Chief Executive's Recommendation 1 (5) (as set out in the CE Report to the elected members on submissions received on the Material Alterations dated 15th of November) and to make the Newcastle West Local Area Plan 2023-2029 with the proposed Material Alteration to provide a "New Residential" zoning on the subject lands, where a residential zoning currently exists in the current Newcastle West Local Area Plan 2014-2020 (lands at Rathnaneane between Arra View and the Paddocks).</p> <p>Reason: As outlined previously, to facilitate access to the open space and recreational zoning at that location.</p> 	<p>"As has already been identified in the "Section 20 (3)(c) Chief Executive's Report to the Elected Members on Submissions received during the Draft Local Area Plan Public Consultation":</p> <ul style="list-style-type: none"> • One of the aims of the Draft LAP is to zone the appropriate quantum of residential land at appropriate locations to ensure the settlement of Newcastle West aligns with the Core Strategy of the Limerick Development Plan 2022-2028 as well as the principles of compact growth and the sequential approach to the zoning of land. It should be noted that the Office of the Planning Regulator (OPR) in their submission stated 'The Office is satisfied that the draft LAP includes a sufficient supply of zoned land to meet the housing supply target and will ensure sufficient choice for development appropriate to a key town of the scale and nature of Newcastle West.' As such, it is considered appropriate that the zoning designations shown for these lands in the Draft LAP remain, as agricultural zoned land. • While the lands in question may be serviced or serviceable, this is not the only contributing factor to consider in terms of zoning land. The principles of compact growth and the sequential approach to the zoning of land must also be considered. The OPR in their submission in relation to the Draft LAP stated: the Office is satisfied that all of the lands proposed to be zoned 'New Residential' and 'Serviced Sites' are well located, contiguous to the existing built up footprint and within the CSO settlement boundary. In this regard, it is considered that the proposed residential land use zonings are generally consistent with National Planning Objective 3c and Regional Planning Objective 35 in relation to compact growth. It is also noted that an Local Transport Plan was undertaken to inform the zoning provisions of the draft LAP and that a suite of active travel measures and other sustainable transport objectives are proposed to enhance connectivity between the proposed residential areas and the town centre. • It is considered that the zoning of lands in the Draft LAP has created a surplus of well-located and serviced lands. The OPR acknowledge this in their submission and state: Whilst the extent of zoned residential land is in excess of the requirement, the Office is satisfied that all of the lands proposed to be zoned 'New Residential' and 'Serviced Sites' are well located, contiguous to the existing built up footprint and within the CSO settlement boundary. In this regard, it is considered that the proposed residential land use zonings are generally consistent with National Planning Objective 3c and Regional Planning Objective 35 in relation to compact growth. As such, it is considered that the quantum of zoned land proposed in the Draft LAP is appropriate and line with national and regional policy. <p>As has already been identified in the SEA Environmental Report that was placed on public display alongside the Draft Plan:</p> <ul style="list-style-type: none"> • Environmental considerations have been integrated into the Draft Plan's zoning through an interdisciplinary approach which was informed by the environmental considerations, including those identified by the SEA and SFRA processes. • Zoning has been applied in a way that primarily seeks to achieve sustainable and compact growth, taking into account the various requirements set out in the higher-level NPF, Southern RSES and Limerick Development Plan 2022-2028. • The detailed Plan preparation process undertaken by the Planning Department combined with specialist input from the SFRA process facilitated zoning that helps to avoid inappropriate development being permitted in areas of high flood risk. Also taken into account were environmental sensitivities relating to ecology, cultural heritage, landscape and water. <p>The Proposed Material Alteration would result in unnecessary potentially significant adverse effects on a variety of environmental components including:</p> <ul style="list-style-type: none"> • Conflict with efforts to maximise sustainable compact growth and sustainable mobility (residual effects would occur)

Instances whereby Environmental Considerations were not integrated into the Plan	Corresponding SEA advice provided in the SEA Environmental Report that accompanied the Proposed Material Alterations on public display:
	<ul style="list-style-type: none"> • Adverse impacts upon carbon emission reduction targets in line with local, national and European environmental objectives (residual effects would occur) • Adverse impacts upon the economic viability of providing for public assets and infrastructure (residual effects would occur) • Effects on ecology, ecological connectivity and non-designated habitats and species (residual effects would occur) • Loss of an extent of soil function arising from the replacement of semi-natural land covers with artificial surfaces (residual effects would occur) • Occurrence of visual impacts (residual effects would occur) • Increased risk of flooding • Increased loadings on water bodies"
<p>Chief Executive's Recommendation: Make the Newcastle West Local Area Plan 2023-2029 without the proposed Material Alteration to include the Newcastle West southern distributor road as included in the current Newcastle West Local Area Plan 2014 – 2020 including text and from all relevant maps.</p> <p>Decision of the Members: To not accept Chief Executives Recommendation 1(6) (as set out in the CE Report to the elected members on submissions received on the Material Alterations dated 15th of November) and to make the Newcastle West Local Area Plan 2023-2029 with the proposed Material Alteration to include the Newcastle West southern distributor road as included in the current Newcastle West Local Area Plan 2014 – 2020 including text and from all relevant maps.</p> <p>Reason: As outlined previously, to alleviate and deal with traffic congestion in the town.</p>	<p>"As has already been identified in the "Section 20 (3)(c) Chief Executive's Report to the Elected Members on Submissions received during the Draft Local Area Plan Public Consultation":</p> <ul style="list-style-type: none"> • The previous Local Area Plan proposed a southern orbital road to facilitate the extensive development lands zoned to the south of Newcastle West. The current draft zoning map shows that the outer development boundary to the south is separated from the route of the previous Southern Distributor Road. This lack of connectivity between development lands and the previous Southern Distributor Road would undermine its function and sustainable development of the town. The relevant objective, as set out in the previous Newcastle West LAP, stated that "The phasing of zoned lands adjoining the indicative road will be concurrent with the construction of the road." This cannot be delivered due to the zoning proposed. On review of the proposed zoning for the town, the need for the previously proposed southern distributor road would not be warranted for the new Local Area Plan, where alternative active travel measures and new local connectivity links would suffice for this scale of zoned development, and ensure the sustainable development of the town. <p>As has already been identified in the Local Transport Plan that was placed on public display alongside the Draft Plan:</p> <ul style="list-style-type: none"> • Coupled with reduction in zoned land requirement as per the core strategy as noted in new 2022-2028 Development Plan, Limerick Shannon Metropolitan Area Mode Share targets note further vehicle usage reduction in the form of Limerick City and County Council mode share targets. A baseline mode share of 52% for car usage in Newcastle West was noted in the Limerick Shannon Metropolitan Area. Current active travel uptake in the study area is 15% as noted in the baseline mode share, reflective of the current mobility issues and constraints highlighted in the assessment. • Previous proposals for a southern distributor road in Newcastle West do not reconcile with current government policy of reducing private car mode share. Limerick City and County Council mode share targets (%) aims to achieve 32% mode use by sustainable means, (20% walking, 5% cycling and 7% public transport). For these targets to be achievable, the Local Transport Plan recommended active travel and road improvements should be pursued. <p>This Proposed Material Alteration would result in unnecessary potentially significant adverse and residual effects on a variety of environmental components including:</p> <ul style="list-style-type: none"> • Conflict with efforts to maximise sustainable compact growth and sustainable mobility (residual effects would occur) • Adverse impacts upon carbon emission reduction targets in line with local, national and European environmental objectives (residual effects would occur) • Adverse impacts upon the economic viability of providing for public assets and infrastructure (residual effects would occur) • Effects on ecology⁵⁹, ecological connectivity and non-designated habitats and species (residual effects would occur) • Loss of an extent of soil function arising from the replacement of semi-natural land covers with artificial surfaces (residual effects would occur) • Increased flood risk (residual effects would occur) • Occurrence of visual impacts (residual effects would occur) • Increased loadings on water bodies"

⁵⁹ Adverse effects on the River Shannon Special Area of Conservation could arise during the construction process, which could affect water quality. A detailed consideration of the measures already integrated into the Development Plan and the Local Area Plan provided at Section 5 of the AA NIR (including Local Area Plan Section 10.1, Objective SMT04 and Objective CHO2) allows it be concluded that these effects will be appropriately mitigated and that no additional mitigation measures relating to European sites are required for the Proposed Material Alteration.

Instances whereby Environmental Considerations were not integrated into the Plan	Corresponding SEA advice provided in the SEA Environmental Report that accompanied the Proposed Material Alterations on public display:
<p>Chief Executive's Recommendation: Make the Newcastle West Local Area Plan 2023-2029 without the proposed Material Alteration to amend the draft plan to restrict the indicative link road to active travel measures only including text and from all relevant maps.</p> <p>Decision of the Members: To not accept Chief Executives Recommendation 1(7) (as set out in the CE Report to the elected members on submissions received on the Material Alterations dated 15th of November) and to make the Newcastle West Local Area Plan 2023-2029 with the proposed Material Alteration to amend the Local Area Plan to restrict the indicative link road to active travel measures only including text and from all relevant maps.</p> <p>Reason: As outlined previously, to prevent traffic congestion on the Killeline Road and restrict vehicles using Woodfield as a rat run.</p>	<p>"As has already been identified in the "Section 20 (3)(c) Chief Executive's Report to the Elected Members on Submissions received during the Draft Local Area Plan Public Consultation":</p> <ul style="list-style-type: none"> • The indicative link road is intended to facilitate the continued development of the local link road to improve permeability and facilitate linkages between south-east and south-west of the town for local access. Detailed design will prioritise pedestrian and cycle safety by the provision of traffic management measures as appropriate. • The proposed link road will provide connections from residential areas to clubs and will be designed with dedicated safe crossing points. • The design of the link road will discourage use by heavy goods vehicles. Measures will be included to ensure that the link road is prioritised for local connectivity. <p>Providing for active travel measures on the road would (as is provided for by the Draft Plan) would contribute towards efforts to maximise sustainable mobility and associated positive contributions towards greenhouse gas emissions targets. However, restricting the indicative link road to active travel measures only would increase the need for another road, further away from the established built envelope of the settlement with associated unnecessary potentially significant adverse effects on a variety of environmental components including:</p> <ul style="list-style-type: none"> • Conflict with efforts to maximise sustainable compact growth and sustainable mobility (residual effects would occur) • Adverse impacts upon carbon emission reduction targets in line with local, national and European environmental objectives (residual effects would occur) • Adverse impacts upon the economic viability of providing for public assets and infrastructure (residual effects would occur) • Effects on ecology, ecological connectivity and non-designated habitats and species (residual effects would occur) • Loss of an extent of soil function arising from the replacement of semi-natural land covers with artificial surfaces (residual effects would occur) • Occurrence of visual impacts (residual effects would occur) • Increased loadings on water bodies"

Section 9 Mitigation Measures

9.1 Introduction

Mitigation measures are measures envisaged to prevent, reduce and, as fully as possible, offset any significant adverse impacts on the environment of implementing the Plan. Various environmental sensitivities and issues have been communicated to the Council through the SEA, Appropriate Assessment (AA) and Strategic Flood Risk Assessment (SFRA) processes.

Mitigation was achieved through:

- Strategic work undertaken by the Council to ensure contribution towards environmental protection and sustainable development;
- Considering alternatives for the Plan;
- The integration of environmental considerations into zoning provisions of the Plan;
- The integration of individual SEA, AA and SFRA provisions into the text of the Plan; and
- The integration of individual provisions into the text of the Limerick Development Plan 2022-2028.

9.2 Strategic work undertaken by the Council to ensure contribution towards environmental protection and sustainable development

Far in advance of the placing of the Draft Plan on public display, Limerick City and County Council undertook various works in order to inform the preparation of the Plan. This included:

- A detailed population analysis to allow for, inter alia, the identification of the projected requirements for population growth and housing unit development; and
- A Local Transport Plan, which has informed and is appended to the Local Area Plan. The strategic aim of the Local Transport Plan is to provide for the planning and delivery of transport infrastructure and services in the town over the period of the Limerick Development Plan 2022-2028, the Newcastle West Local Area Plan 2023-2029, and beyond, which will:
 - Co-ordinate transport and land use planning;
 - Reduce the demand for travel and the reliance on the private car in favour of more sustainable forms of transport;
 - Provide a safe and sustainable transport network; and
 - Identify strategic walking and cycling infrastructure to prioritise for funding.

The findings of this strategic work have been integrated into the Plan and will contribute towards both environmental protection and management and sustainable development.

The undertaking of this SEA process was part of this strategic work and contributed towards the integration of environmental considerations into individual Plan provisions.

9.3 Consideration of Alternatives

Although strategic alternatives in relation to the content of the Plan were guided by higher level planning objectives (see Section 6), as part of the Plan preparation/SEA process, the Council considered a number of alternatives for the Plan.

These alternatives were assessed by the SEA process (see Section 7) and the findings of this assessment informed the selection of preferred alternatives, facilitating an informed choice with respect to the type of Plan that was prepared, placed on public display and adopted.

9.4 Integration of environmental considerations into Zoning of the Plan

Environmental considerations, including those relating to ecology, cultural heritage, landscape and water, were integrated into the Local Area Plan's zoning through an interdisciplinary approach which was informed by the environmental considerations identified by the SEA and SFRA processes.

Zoning has been applied in a way that primarily seeks to achieve sustainable and compact growth, taking into account the various requirements set out in the higher-level NPF, Southern RSES and Limerick Development Plan 2022-2028.

Flood risk management and drainage provisions are already in force through the Development Plan and related provisions have been integrated into the LAP. In addition, land use zoning contained within the Plan has been informed by the SFRA process and associated delineation of flood risk zones. The detailed Plan preparation process undertaken by the Planning Department combined with specialist input from the SFRA process facilitated zoning that helps to avoid inappropriate development being permitted in areas of high flood risk.

9.5 Integration of individual provisions into the text of the Plan

Various provisions have been integrated into the text of the Plan through the Plan-preparation and SEA, SFRA and AA processes. Both the Planning and the assessment teams contributed towards the mitigation which was developed over multiple iterations and was informed by, inter alia, various communications through the SEA, AA and SFRA processes.

Table 9.1 links key mitigation measure(s) to the likely significant effects of implementing the Plan, if unmitigated. The measures generally benefit multiple environmental components i.e. a measure providing for the protection of biodiversity, flora and fauna could beneficially impact upon the minimisation of flood risk and the protection of human health, for example.

9.6 Integration of individual provisions into the text of the Development Plan

In addition to the individual provisions integrated into the text of the Local Area Plan, individual provisions relating to environmental protection and management have been integrated into the existing Limerick Development Plan 2022-2028. These measures, which must be complied with by development under the Local Area Plan⁶⁰, are identified alongside the Local Area Plan measures on Table 9.1.

⁶⁰ As detailed under Section 10.1 "Land Use Zoning and Implementation", the overarching policies and objectives of the Limerick Development Plan 2022 -2028 and any replacement thereof also apply. All development requiring planning permission must adhere to the Policies, Objectives, Development Management Standards and other requirements of the Limerick Development Plan 2022-2028, or any replacement thereof.

Table 9.1 Integration of Environmental Considerations into the Local Area Plan and the Development Plan

Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
Biodiversity and flora and fauna	<p>Arising from both construction and operation of development and associated infrastructure:</p> <ul style="list-style-type: none"> Loss of/damage to biodiversity in designated sites (including European Sites and Wildlife Sites) and Annexed habitats and species, listed species, ecological connectivity and non-designated habitats; and disturbance to biodiversity and flora and fauna; Habitat loss, fragmentation and deterioration, including patch size and edge effects; and Disturbance (e.g. due to noise and lighting along transport corridors) and displacement of protected species such as birds (e.g. swifts and owls) and bats. 	<p>Also refer to measures under other environmental components including Soil, Water and Air and Climatic Factors and Landscape.</p> <p>Objective CHO2 - Blue Green Infrastructure: It is an objective of the Council to:</p> <p>a) Develop and enhance blue and green infrastructure opportunities in accordance with Our Green Region – a Blue Green Infrastructure and Nature-based Solutions Framework for the Southern Region and The Best Practice Interim Guidance Document 'Nature-based Solutions to the Management of Rainwater and Surface Water Runoff in Urban Areas' – Inclusion of SuDS and green infrastructure, throughout Newcastle West and in line with the detail set out in Tables 8.1 and 8.2.</p> <p>b) Promote connecting corridors for the movement of species and encourage the retention and creation of features of biodiversity value, ecological corridors and networks that connect areas of high conservation value, such as woodlands, hedgerows, earth banks, watercourses, wetlands and designated sites where possible. In this regard, new infrastructural projects and linear developments in particular, will have to demonstrate at design stage, sufficient measures to assist in the conservation of and dispersal of species.</p> <p>c) Protect existing ecosystems and biodiversity assets, such as natural woodland, natural watercourses and riparian habitats, layered ecosystems supporting flora, fauna, pollinators, invertebrates, micro-organisms and mycelium, where possible.</p> <p>d) Protect the Watercourses in Newcastle West by ensuring the provision of adequate riparian buffer zones.</p> <p>Objectives CIO4 Walkways, Cycleways and the Limerick Greenway: It is an objective of the Council to:</p> <p>a) Encourage walking and cycling as more convenient, popular and safe methods of movement in Newcastle West, and facilitate the provision of an attractive and coherent network of off-road footpaths and cycle facilities. This will be achieved by:</p> <ul style="list-style-type: none"> Providing a safer connection between the Limerick Greenway and the town centre. Providing secure cycle parking infrastructure at appropriate locations as opportunities arise. <p>b) Support of development of the Limerick Greenway, ancillary facilities, connectivity between the Greenway and the town centre and connectivity to the heritage and cultural assets of the town.</p> <p>c) Continue to facilitate the development of walkways as indicated on the Amenity Map (Appendix X, Map X) in co-operation with local interested parties including the private, voluntary and public sector. Any proposed development adjacent to such walkways must incorporate connecting pathways into the designated walkway in their design. Developments shall be designed to ensure that properties over look proposed walkways.</p> <p>d) Proposals for new Walkways/Cycleways, Greenways and Blueways will be subject to appropriate environmental</p>	<p>Also refer to measures under other environmental components including Soil, Water and Air and Climatic Factors and Landscape.</p> <p><i>Policy EH P1 Protection of Natural Heritage and Biodiversity</i></p> <p><i>It is a policy of the Council to:</i></p> <p>a) <i>Protect and conserve Limerick's natural heritage and biodiversity, in particular, areas designated as part of the European Sites Natura 2000 network, such as Special Protection Areas (SPAs) and Special Areas of Conservations (SACs), in accordance with relevant EU Directives and national legislation and guidelines.</i></p> <p>b) <i>Maintain the conservation value of all Natural Heritage Areas and proposed Natural Heritage Areas (pNHAs) for the benefit of existing and future generations.</i></p> <p><i>Policy EH P2 Sustainable Management and Conservation</i></p> <p><i>It is a policy of the Council to ensure the sustainable management and conservation of areas of natural environmental and geological value within Limerick and to protect, enhance, create and connect, where ecologically suitable, natural heritage, green spaces and high-quality amenity areas for the benefit of biodiversity.</i></p> <p><i>Policy EH P3 Climate Action and the Natural Environment</i></p> <p><i>It is a policy of the Council to take into account the contents of the National Biodiversity Action Plan and the Biodiversity Climate Adaptation Plan and any forthcoming guidance or legislation on climate action, whether adaptation or mitigation that will emerge during the course of the Plan.</i></p> <p><i>Policy EH P4 Compliance with Limerick's Heritage Plan</i></p> <p><i>It is a policy of the Council to place ecological and environmental issues at the centre of planning policies and decisions and in doing so, will adhere to the objectives set out in Limerick's Heritage Plan 2017-2030.</i></p> <p><i>Policy EH P6 Water and Air Quality</i></p> <p><i>It is a policy of the Council to ensure that water and air quality shall be of the highest standard, to ensure the long term economic, social and environmental well-being of Limerick's resources. The World Health Organisation Air Quality Guidelines will be the basis for the air quality guidance in Limerick.</i></p> <p><i>Policy EH P7 Environmental Noise</i></p> <p><i>It is a policy of the Council to proactively manage environmental noise, where it may have a significant adverse impact on the health and quality of life of communities in Limerick and to support the aims of the Environmental Noise Regulations, through the development and implementation of Noise Action Plans.</i></p> <p><i>Objective EH O1 Designated Sites and Habitats Directive</i></p> <p><i>It is an objective of the Council to ensure that projects/plans likely to have significant effects on European Sites (either individually or in combination with other plans or projects) are subject to an appropriate assessment and will not be permitted under the Plan unless they comply with Article 6 of the Habitats Directive. The Council, will through the planning enforcement process where applicable, seek to restore the ecological functions of designated sites, where they have been damaged through inappropriate development.</i></p> <p><i>Objective EH O2 Lesser Horseshoe Bat</i></p> <p><i>It is an objective of the Council to require all developments in areas where there may be Lesser Horseshoe Bats, to submit an ecological assessment of the effects of the development on the species. The assessment shall include mitigation measures to ensure that feeding, roosting or hibernation sites for the species are maintained. The assessment shall also include measures to ensure that landscape features are retained and that the development itself will not cause a barrier or deterrent effect on the species.</i></p> <p><i>Objective EH O3 Ecological Impact Assessment</i></p> <p><i>It is an objective of the Council to require all developments where there are species of conservation concern, to submit an ecological assessment of the effects of the development on the site and nearby designated sites, suggesting appropriate mitigation measures and establishing, in particular, the presence or absence of the following species: Otter, badger, bats, lamprey and protected plant species such as the Triangular Club Rush, Opposite Leaved Pond Weed and Flora Protection Order Species generally.</i></p> <p><i>Objective EH O4 Creation of New Habitats</i></p> <p><i>It is an objective of the Council to:</i></p> <p>a) <i>Seek the creation of new habitats by encouraging wild green areas and new water features such as, pools and ponds in new developments.</i></p> <p>b) <i>Encourage management plans for green areas to use the minimum of pesticides and herbicides.</i></p> <p>c) <i>The creation of areas that are not subject to public access in order to promote wildlife use is strongly encouraged.</i></p> <p><i>Objective EH O5 New Infrastructure Projects</i></p> <p><i>It is an objective of the Council to require new infrastructure and linear developments in particular, to demonstrate at design stage sufficient measures to assist in the conservation of and dispersal of species and to demonstrate a high degree of permeability for wildlife, to allow the movement of species and to prevent the creation of barriers to wildlife and aquatic life in the wider countryside.</i></p> <p><i>Objective EH O6 Barn Owl Conservation</i></p> <p><i>It is an objective of the Council to require road developments to incorporate from the design stage, elements that will assist in the</i></p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
		<p>assessments. Any development which would have adverse effect on the integrity of European sites or cause a net loss of bio-diversity will not be permitted.</p> <p>Objective TO1 – Tourism: It is the objective of the Council to:</p> <p>a) Support growth in the tourism sector in Newcastle West ensuring that the economic and societal benefits of tourism are effectively distributed throughout the town by making vital connections between complementary sites and attractions, and ensuring visitors can avail of Newcastle West’s services attracting visitors from the Greenway into the town centre, and enabling them to do so with ease.</p> <p>b) Support the provision of a range of tourist accommodation types and infrastructure including, hostel accommodation, campervan/caravans sites, subject to them being located on suitably zoned lands.</p> <p>c) Support Newcastle West’s role in the Limerick Tourism Development Strategy 2019 - 2023 and any subsequent replacement document.</p> <p>d) Require tourism projects to adhere to appropriate environmental and ecological assessment and to mitigate any adverse environmental, biodiversity and ecological impacts.</p> <p>e) Support community engagement in the development of tourism and amenity projects in the town.</p> <p>f) Seek to improve public realm opportunities, to make available spaces to facilitate the tradition of festivals in the town.</p> <p>g) Support development of the Limerick Greenway, ancillary facilities, connectivity between the Greenway and the town centre, Newcastle West as a Greenway hub, with enhanced accessibility to the heritage and cultural assets of the town.</p> <p>h) Require new tourist projects to be located within the town to foster synergy with the services and retail business located in the town.</p> <p>i) Facilitate Tourism development opportunities in Newcastle West in accordance with the Proposed Limerick Development Plan 2022 – 2028 as they apply to Newcastle West. All development proposals comply with the Development Management Standards of the Proposed Limerick Development Plan 2022 - 2028.</p> <p>j) Develop Newcastle West as ‘Destination Town’ and to seek funding to realise this objective in accordance with Fáilte Ireland’s Destination Town Guidelines.</p> <p>(k) Investigate the potential of providing a short stay campervan/motorhome service areas or ‘Aire’ at an appropriate location in the town.</p>	<p><i>conservation of the Barn owl.</i></p> <p><i>Objective EH O7 All Ireland Pollinator Plan</i></p> <p><i>It is an objective of the Council to:</i></p> <p><i>a) Continue to actively support the aims and objectives of the All Ireland Pollinator Plan 2021 – 2025, by encouraging measures to protect and increase the population of bees and other pollinating insects in Limerick.</i></p> <p><i>b) Support the aims of the National Bio- Diversity Action Plan and succeeding plans, in emphasising the importance of ecological issues in planning.</i></p> <p><i>Objective EH O8 Roosting Habitats</i></p> <p><i>It is an objective of the Council to require the provision of alternative roosting or settlement facilities for species, such as bird or bat boxes, swift boxes, artificial holts (for otters), or other artificially created habitats in proposed developments, where considered appropriate.</i></p> <p><i>Objective EH O9 Geological Sites</i></p> <p><i>It is an objective of the Council to:</i></p> <p><i>a) Protect from inappropriate development, the County Geological Sites contained in the Limerick Geological Heritage Survey 2021.</i></p> <p><i>b) Seek the conservation and protection of features of geological interest within Limerick, particularly those that would have been recognised in the past as Areas of Scientific Interest or by the Geological Survey of Ireland as being of particular value.</i></p> <p><i>c) Undertake a survey of such sites during the lifetime of the Plan.</i></p> <p><i>Objective EH O10 Trees and Hedgerows</i></p> <p><i>It is an objective of the Council to:</i></p> <p><i>a) Retain and protect amenity and biodiversity value of the County and City by preserving as far as possible trees, woodlands and hedgerows, having regard to the significant role that trees and hedgerows play in local ecology, climate change and air quality and their contribution to quality place making and the associated health and wellbeing benefits.</i></p> <p><i>b) Require, in the event that mature trees or extensive mature hedgerow is proposed to be removed, that a comprehensive tree and hedgerow survey be carried out by a suitably qualified tree specialist to assess the condition, ecological and amenity value of the tree stock/ hedgerow proposed for removal and to include mitigation planting and a management scheme. The Council will seek in all cases to ensure when undertaking development, or when permitting development, that the loss of, or damage to, existing trees is minimised.</i></p> <p><i>c) Require the planting of native trees, hedgerows and vegetation and the creation of new habitats in all new developments and public realm projects. The Council will avail of tree planting schemes administered by the Forest Service, in ecologically suitable locations, where this is considered desirable.</i></p> <p><i>d) To identify and prepare TPO’s where trees of exceptional amenity, cultural or environmental value are identified which warrant a high level of protection.</i></p> <p><i>e) To implement the Limerick City and County Tree Policy when completed and review as appropriate.</i></p> <p><i>Objective EH O11 Invasive Species</i></p> <p><i>It is an objective of the Council to:</i></p> <p><i>a) Work with and facilitate the work of agencies addressing the issue of terrestrial and aquatic invasive alien species (IAS), by implementing biosecurity measures, selected control measures and surveys, where appropriate.</i></p> <p><i>b) Address the presence of invasive alien species on derelict sites under the provisions of the Derelict Sites Act through the preparation of a management and eradication plan for these species.</i></p> <p><i>c) Require the submission of a control and management program for the particular invasive species as part of the planning process, if developments are proposed on sites where invasive species are present.</i></p> <p><i>d) Employ biosecurity measures to prevent the spread of invasive alien species and disease and to insist that all such measures are employed on all development sites.</i></p> <p><i>Objective EH O12 Blue and Green Infrastructure</i></p> <p><i>It is an objective of the Council to:</i></p> <p><i>a) Promote a network of blue and green infrastructure throughout Limerick.</i></p> <p><i>b) Promote connecting corridors for the movement of species and encourage the retention and creation of features of biodiversity value, ecological corridors and networks that connect areas of high conservation value such as woodlands, hedgerows, earth banks, watercourses, wetlands and designated sites. In this regard, new infrastructural projects and linear developments in particular, will have to demonstrate at design stage, sufficient measures to assist in the conservation of and dispersal of species. Projects which would be detrimental to existing blue and green infrastructure features will not be permitted.</i></p> <p><i>c) Ensure the integration and strengthening of green infrastructure into the preparation of Local Area Plans.</i></p> <p><i>d) Where possible remove barriers to species movement, such as the removal of in-stream barriers to fish passage for example.</i></p> <p><i>e) Seek to advance the use of an ecosystem services approach and ecosystem services valuation as a decision-making tool in plans and projects, subject to appropriate ecological assessment.</i></p> <p><i>Objective EH O14 Nature Based Solutions</i></p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
Population and human health	<ul style="list-style-type: none"> Potential adverse effects arising from flood events. Potential interactions if effects arising from environmental vectors. 	<p>Also refer to measures under other environmental components including Soil, Water and Air and Climatic Factors.</p> <p>Policy EDP1: Strategic Economic Development: It is a policy of the Council to promote, facilitate and enable economic development and employment generating activities in Newcastle West on lands zoned 'Enterprise and Employment' in a sustainable manner in accordance with the Proposed Limerick Development Plan 2022 – 2028, the National Planning Framework and the Regional Spatial and Economic Strategy for the Southern Region.</p> <p>Objective ED01: Enterprise and Employment Objectives: It is an objective of Council to:</p> <p>a) Encourage the redevelopment of vacant commercial units, brownfield, derelict, and infill sites for local enterprise development subject to the normal planning criteria</p> <p>b) Ensure any proposals for the lands zoned for Enterprise and Employment adjoining national or regional roads include a Traffic and Transport Assessment, to ensure that the local road network and associated junctions have sufficient capacity to facilitate the extent of the development planned. The costs of implementing mitigation measures arising from the assessment shall be borne by the developer.</p> <p>c) Any proposals on lands zoned enterprise and employment adjoining the R521, Ardagh Road and the N21 shall ensure the provision of a minimum 20m landscaped buffer zone between proposed development and residential developments.</p> <p>d) Promote a diverse range of employment opportunities by facilitating appropriate development on appropriately zoned Enterprise and Employment lands, subject to compliance with all relevant Development Management Standards of the Proposed Limerick Development Plan 2022 – 2028.</p> <p>e) Ensure any proposal for part of the lands zoned Enterprise and Employment does not preclude the development of the remaining zoned lands. Any proposal submitted on these lands shall include an indicative layout which allows for a coordinated development of the remaining zoned lands.</p> <p>f) Retain sufficient lands around the site boundaries where industrial, enterprise or distribution activities are proposed to accommodate landscaping to soften the visual impact and reduce the biodiversity loss of the development.</p> <p>g) Early engagement with all utilities providers, including Uisce Eireann is strongly advised.</p> <p>h) Promote inter-urban linkages and partnerships across county boundaries, capitalising on collective strengths to attract investment in Newcastle West, the wider West Limerick /North Kerry region and the Atlantic Economic Corridor.</p>	<p><i>It is an objective of the Council to increase the use of Nature Based Solutions (NBS) throughout Limerick. Development Management Standards, including under 11.3.8 "Landscaping", 11.3.9 "Trees",</i></p> <p>Also refer to measures under other environmental components including Soil, Water and Air and Climatic Factors.</p> <p><i>Objective EH O20 Noise and Vibration during Construction and at Open Sites</i> It is an objective of the Council to protect the quality of the environment against the effects of noise and vibration, by implementing site appropriate mitigation measures during the construction and demolition phases of development.</p> <p><i>Objective EH O21 Commercial and Industrial Noise</i> It is an objective of the Council to prevent members of the public being significantly adversely effected by environmental noise from commercial and industrial noise activities.</p> <p><i>Objective EH O22 Entertainment Noise</i> It is an objective of the Council to manage entertainment noise from venues and music events, so as not to have an adverse effect on the public.</p> <p><i>Objective EH O25 Air Pollution</i> It is an objective of the Council to implement the provisions of national and EU Directives on air pollution and other relevant legislative requirements in conjunction with other agencies as appropriate.</p> <p><i>Objective EH O26 Improvement of Air Quality</i> It is an objective of the Council to improve air quality and help prevent people being exposed to unacceptable levels of pollution in Limerick, through the support of sustainable modes of transport, renewable energy, promotion of energy efficient buildings and homes and urban greening.</p> <p><i>Objective EH O27 Air Quality Monitoring</i> It is an objective of the Council to monitor and provide access to the public on the air quality in Limerick and support the EPA in the expansion and management of the national air quality monitoring network.</p> <p><i>Objective EH O28 Air Quality during Construction</i> It is an objective of the Council to protect environmental quality and implement site appropriate mitigation measures during construction and demolition phases of a development, with respect to air quality, including dust.</p> <p><i>Objective EH O29 Odour</i> It is an objective of the Council to protect the public from odour nuisance issues through odour abatement solutions.</p> <p><i>Policy EH P7 Environmental Noise</i> It is a policy of the Council to proactively manage environmental noise, where it may have a significant adverse impact on the health and quality of life of communities in Limerick and to support the aims of the Environmental Noise Regulations, through the development and implementation of Noise Action Plans.</p> <p><i>Policy EH P6 Water and Air Quality</i> It is a policy of the Council to ensure that water and air quality shall be of the highest standard, to ensure the long term economic, social and environmental well-being of Limerick's resources. The World Health Organisation Air Quality Guidelines will be the basis for the air quality guidance in Limerick.</p> <p><i>Objective TR O53 Noise and Transportation</i> It is an objective of the Council to identify appropriate mitigation measures to reduce noise levels from traffic where they are potentially harmful, in accordance with Limerick's Noise Action Plan.</p> <p><i>Objective TR O54 Noise Sensitive Development</i> It is an objective of the Council to require noise sensitive developments in close proximity to heavily trafficked roads to be designed and constructed to minimise noise disturbance, follow a good acoustic design process and clearly demonstrate that significant adverse noise impacts will be avoided in accordance with Professional Practice Guidance on Planning and Noise (2017) and based on the guidance and recommendations of the World Health Organisation.</p> <p><i>Objective IN O21 Hazardous Waste and Contaminated Sites</i> It is an objective of the Council to:</p> <p>a) Implement the EPA's National Hazardous Waste Management Plan (NHWMP) 2014-2020 and any subsequent plans.</p> <p>b) Collaborate and seek guidance from the Environmental Protection Agency (EPA), the Health and Safety Authority (HAS), Health Service Executive (HSE) and Southern Region Waste Management Office, on the technical requirements for clearance and redevelopment of any contaminated lands when dealing with planning applications at these locations.</p> <p><i>Development Management Standards, including under 11.3.12 "Noise"</i></p>
Soil	<ul style="list-style-type: none"> Potential adverse effects on the hydrogeological and ecological function of the soil resource, including as a result 	<p>Also refer to measures under other environmental components including Water.</p> <p>Objective DSO1 - Development Strategy - Sustainable Residential Growth Objectives - It is an objective of Council to:</p> <p>(a) Ensure the sequential development of the serviced</p>	<p>Also refer to measures under other environmental components including Water.</p> <p><i>Objective SS O1 Compact Growth</i> It is an objective of the Council to strengthen the core of settlements and encourage compact growth, through the development of infill sites, brownfield lands, under-utilised land/buildings, vacant sites and derelict sites, within the existing built-up footprint of the settlements and develop outwards from the centre in a sequential manner.</p> <p><i>Objective SS O4 Prevention of Urban Sprawl</i></p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
	<ul style="list-style-type: none"> of development on contaminated lands. Potential for riverbank erosion. 	<p>residential lands identified to cater for the envisaged population growth.</p> <p>(b) Ensure that at least 30% of all new housing development is delivered within existing built-up areas and on infill, brownfield and backland sites.</p> <p>(c) Consolidate existing development and increase existing residential density, through a range of measures including reductions in vacancy, re-use of existing buildings and infill development schemes.</p> <p>(d) Ensure that in any proposed alterations to the streetscape of the town centre, that adequate consideration is given to conservation, restoration and reconstruction, where it would affect the settings of protected structures, or the integrity of the eighteenth and nineteenth century streetscapes.</p> <p>(e) Prioritise the completion of unfinished housing estates and require the extension of existing housing developments be completed in tandem with a landscaping plan for the overall scheme to ensure quality living environment and appropriate permeability.</p> <p>Objective DSO3: Development Strategy - Serviced Sites Objective - It is an objective of the Council to Permit serviced sites on adequately zoned lands within the settlement boundary of Newcastle West in line with particulars outlined in the Limerick Development Plan 2022-2028. The Council requires a minimum net density of 10 dwelling units per hectare on lands zoned Serviced Sites.</p>	<p>It is an objective of the Council to prevent linear roadside frontage development on roads leading out of towns and villages in order to retain the identity of towns/villages, to prevent sprawl and to ensure a distinction in character between built up areas and the open countryside.</p> <p><i>Objective EH 09 Geological Sites</i> It is an objective of the Council to:</p> <p>a) To protect from inappropriate development, the County Geological Sites contained in the Limerick Geological Heritage Survey 2021.</p> <p>b) Seek the conservation and protection of features of geological interest within Limerick, particularly those that would have been recognised in the past as Areas of Scientific Interest or by the Geological Survey of Ireland as being of particular value.</p> <p>c) Undertake a survey of such sites during the lifetime of the Plan.</p> <p><i>Objective IN 021 Hazardous Waste and Contaminated Sites</i> It is an objective of the Council to:</p> <p>a) Implement the EPA's National Hazardous Waste Management Plan (NHWMP) 2014-2020 and any subsequent plans.</p> <p>b) Collaborate and seek guidance from the Environmental Protection Agency (EPA), the Health and Safety Authority (HAS), Health Service Executive (HSE) and Southern Region Waste Management Office, on the technical requirements for clearance and redevelopment of any contaminated lands when dealing with planning applications at these locations.</p>
Water	<ul style="list-style-type: none"> Potential adverse effects upon the status of water bodies and entries to the WFD Register of Protected Areas (ecological and human value), arising from changes in quality, flow and/or morphology. Increase in flood risk and associated effects associated with flood events. 	<p>Also refer to measures under other environmental components including Soil and Material Assets.</p> <p>Policy CHP2 - Water Framework Directive Policy: It is a policy of the Council to:</p> <p>Implement changes to the management of water bodies, taking account of all aspects of the Water Cycle in accordance with the Water Framework Directive and the principal objective of the Water Framework Directive to achieve at least good status in all waters and to ensure that status does not deteriorate in any waters.</p> <p>Objective IUO4 - Flood Risk Management Objectives: It is an objective of the Council to</p> <p>a) Manage flood risk in accordance with the requirements of "The Planning System and Flood Risk Management Guidelines for Planning Authorities", DECLG and OPW (2009) and any revisions thereof and consider the potential impacts of climate change in the application of these guidelines.</p> <p>b) Ensure development proposals within the areas outlined as being at risk of flooding are subject to Site Specific Flood Risk Assessment as outlined in "The Planning System and Flood Risk Management Guidelines", DECLG and OPW (2009). These Flood Risk Assessments shall consider climate change impacts and adaptation measures including details of structural and non-structural flood risk management measures, such as those relating to floor levels, internal layout, flood-resistant construction, flood-resilient construction, emergency response planning and access and egress during flood events.</p> <p>c) Ensure that future developments in flood prone areas is generally limited to minor developments in line with the Circular PL 02/2014 and the Flood Risk Management 89</p>	<p>Also refer to measures under other environmental components including Soil and Material Assets.</p> <p><i>Objective EH 015 Ground Water, Surface Water Protection and River Basin Management Plans</i> It is an objective of the Council to:</p> <p>a) Protect ground and surface water resources and to take into account the requirement of the Water Framework Directive when dealing with planning and land use issues.</p> <p>b) Implement the provisions of the River Basin Management Plan 2022-2028 and any succeeding plan. The filling of wetlands, surface water features and modifications and drainage of peatlands shall generally be prohibited.</p> <p>c) Implement the measures put forward in the Limerick Groundwater Protection Plan, in assessing planning applications and their consequences for ground</p> <p>d) The Blue Dot Catchments programme is a key action under the River Basin Management Plan for Ireland 2022-2028. The aim of the programme is to protect and restore high ecological status to a network of rivers and water bodies in Limerick. In Limerick, the following rivers and water bodies are Blue Dot Catchments Bleach Lough, the Ogeen River and the Behanagh River. The Council will take a precautionary approach to development which might affect water quality in these areas in line with requirements of the Water Framework Directive.</p> <p><i>Objective EH 017 Water Quality</i> It is an objective of the Council to support commitments to achieve and maintain 'At Least Good' status, except where more stringent obligations are required. There shall be no deterioration of status for all water bodies under the Marine Strategy Framework Directive and its programme of measures, the Water Framework Directive and the River Basin Management Plan. Key challenges include, inter alia, the need to address significant deficits in urban waste-water treatment and water supply, addressing flooding and increased flood risks from extreme weather events and increased intense rainfall because of climate change.</p> <p><i>Policy EH P6 Water and Air Quality</i> It is a policy of the Council to ensure that water and air quality shall be of the highest standard, to ensure the long term economic, social and environmental well-being of Limerick's resources. The World Health Organisation Air Quality Guidelines will be the basis for the air quality guidance in Limerick.</p> <p><i>Objective IN 010 Surface Water and SuDS</i> It is an objective of the Council to:</p> <p>a) Ensure the separation of foul and surface water discharges in new developments through the provision of separate networks within application site boundaries.</p> <p>b) Work in conjunction with other public bodies towards a sustainable programme of improvement for riverbanks, back drains, etc.</p> <p>c) Maintain, improve and enhance the environmental and ecological quality of surface waters and groundwater, including reducing</p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
		<p>Guidelines for Planning Authorities and ensure future development of lands within Flood Risk Zone A/B is in accordance with the plan-making Justification Tests in the SFRA.</p> <p>d) Developments on lands benefitting from Arterial Drainage Schemes shall ensure that adequate lands are preserved to allow for maintenance and access to these drainage channels. Land identified as benefitting from these systems may be prone to flooding, as such site-specific flood risk assessments will be required as appropriate, at planning application stage.</p> <p>f) Ensure the protection of a 20m riparian buffer free from development, on greenfield lands, in particular the lands zoned Enterprise and Employment and Residential Serviced Sites by the River Daar south east of the Limerick Greenway and north west and south east of the N21.</p> <p>g) Ensure that zoning or development proposals allow for the protection, and the need for maintenance of the existing flood relief scheme and do not impede or prevent the progression of the proposed development flood relief scheme in Newcastle West.</p> <p>h) Prepare a register of key flood relief infrastructure in Newcastle West.</p>	<p>the discharges of pollutants or contaminants to waters, in accordance with the National River Basin Management Plan for Ireland 2018-2021 (DHPLG) and the associated Programme of Measures and any subsequent River Basin Management Plan.</p> <p>d) Ensure adequate storm water infrastructure to accommodate the planned levels of growth within the Plan area and to ensure that appropriate flood management measures are implemented to protect property and infrastructure.</p> <p>e) Cater for the future developments through public and private driven initiatives where discharge capacity permits.</p> <p>f) Address the issue of disposal of surface water generated by existing development in the area, through improvements to surface water infrastructure, including for example attenuation ponds, the application of sustainable urban drainage techniques, or by minimising the amount of hard surfaced areas, or providing porous surfaces as the opportunity arises.</p> <p>g) Protect the surface water resources of the Plan area and in individual planning applications request the provision of sediment and grease traps and pollution control measures where deemed necessary.</p> <p>h) Require all planning applications to include surface-water design calculations to establish the suitability of drainage between the site and the outfall point and require all new developments to include SuDS, to control surface water outfall and protect water quality in accordance with the requirements of Chapter 11: Development Management Standards of the Plan.</p> <p>i) Promote SuDS and grey water recycling in developments and responsible use of water by the wider community, to reduce the demand for water supply.</p> <p>j) Require SuDS schemes to be designed to incorporate the four pillars of water quality, water quantity, biodiversity and amenity to the greatest extent possible within the constraints of a given site.</p> <p>k) Allow sufficient land take for SuDS when planning the site and consider the region as a whole, in association with adjoining lands and their requirements in designing SuDS. Developers may be required to set aside lands to cater for not only their own SuDS but also regional SuDS.</p> <p>l) Promote the provision of suitable Blue/Green Infrastructure (BGI) and Nature Based Solutions to the surface water disposal in new development, as a means to provide urban flood resilience. This approach capitalises on the potential of urban green spaces and natural water flows, subject to the other planning considerations such as amenity, maintenance, traffic safety, proper planning and sustainable development and environmental requirements.</p> <p>m) <i>To prohibit the discharge of additional surface water to combined (foul and surface water) sewers in order to maximise the capacity of existing collection systems for foul water.</i></p> <p>n) <i>Encourage green roofs for the following types of development:</i></p> <ul style="list-style-type: none"> -Apartment developments; -Employment developments; -Retail developments; -Leisure facilities; -Education facilities. <p><i>Objective CAF O11 Nature Based Solutions</i></p> <p>It is an objective of the Council to promote integration and delivery of nature based solutions and infrastructure in new developments, including surface water management, public realm and community projects as a means of managing flood risk and enhancing the natural environment.</p> <p><i>Policy CAF P5 Managing Flood Risk</i></p> <p>It is a policy of the Council to protect Flood Zone A and Flood Zone B from inappropriate development and direct developments/land uses into the appropriate lands, in accordance with The Planning System and Flood Risk Management Guidelines for Planning Authorities 2009 (or any superseding document) and the guidance contained in Development Management Standards. Where a development/land use is proposed that is inappropriate within the Flood Zone, then the development proposal will need to be accompanied by a Development Management Justification Test and site specific Flood Risk Assessment in accordance with the criteria set out under The Planning System and Flood Risk Management Guidelines for Planning Authorities 2009 and Circular PL2/2014 (as updated/superseded). In Flood Zone C, the developer should satisfy themselves that the probability of flooding is appropriate to the development being proposed and should consider the implications of climate change.</p> <p><i>Objective CAF O20 Flood Risk Assessments</i></p> <p>It is an objective of the Council to require a Site-specific Flood Risk Assessment (FRA) for all planning applications in areas at risk of flooding (coastal/tidal, fluvial, pluvial or groundwater), where deemed necessary. The detail of these Site-specific FRAs (or commensurate assessments of flood risk for minor developments) will depend on the level of risk and scale of development. A detailed Site-specific FRA should quantify the risks, the effects of selected mitigation and the management of any residual risks. The assessments shall consider and provide information on the implications of climate change with regard to flood risk in relevant locations.</p> <p><i>Objective CAF O21 Identified Flood Risk</i></p> <p>It is an objective of the Council to:</p> <p>a) Ensure that no development shall commence on the lands identified as being at flood risk adjacent to the Raheen Business Park in</p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
			<p>the townlands of Ballycummin/ Rootiagh, zoned for High Tech/ Manufacturing, until a Site-specific Flood Risk Assessment, including hydraulic model has been prepared for the lands, which demonstrates that the flood risk for the lands can be mitigated or that a less vulnerable use can be accommodated on site.</p> <p>b) Ensure that on the Enterprise and Employment lands located to the northwest of the M20/M7/N18 junction to the south of Toppin's field, that no encroachment onto, or loss of the flood plain occurs at this location and that only water compatible development should be permitted for the lands that are identified as being at risk of flooding.</p> <p>c) Ensure any planning application, including proposals for water compatible uses, on the lands in Flood Zones A and B adjacent to the Coonagh TUS campus, zoned for Education and Community, shall include a comprehensive Site-Specific Flood Risk Assessment, incorporating a drainage assessment for the lands, which demonstrates that the flood risk can be mitigated and that water compatible uses can be accommodated without adversely impacting on the flood risk of neighbouring residential properties.</p> <p>d) No works including the undertaking of ground level changes shall commence on the lands in the National Technology Park subject to flood risk, until all flood mitigation measures proposed on the site to facilitate future development of the IDA lands have been put in place. These measures shall form part of a project-specific flood risk assessment being completed as part of any planning application.</p> <p>e) Any planning application on the lands zoned Data Centre at Rosbrien shall include a comprehensive Site-Specific Flood Risk Assessment, which demonstrates that the flood risk can be mitigated and that access/egress, roads and water compatible uses can be accommodated without adversely impacting on the flood risk off site.</p> <p><i>Objective CAF O23 Flood Relief Schemes</i> It is an objective of the Council to support and facilitate the development of Flood Relief Schemes as identified in the CFRAM 10 Year Investment Programme and ensure development proposals do not impede or prevent the progression of these measures.</p> <p><i>Objective CAF O24 Minor Flood and Mitigation Works and Coastal Protections Schemes</i> It is an objective of the Council to support and facilitate the Office of Public Works Minor Flood and Mitigation Works and Coastal Protections Schemes and ensure development proposals do not impede or prevent the progression of these measures.</p> <p><i>Objective CAF O25 Strategic Flood Risk Assessment</i> It is an objective of the Council to have regard to the recommendations set out in the Strategic Flood Risk Assessment prepared to support the Plan.</p> <p><i>Development Management Standards, including under 11.3.8 "Landscaping", 11.3.11 SuDS (Sustainable Drainage Systems)</i></p>
Air and Climatic Factors	<ul style="list-style-type: none"> • Potential conflict between development under the Plan and aiming to reduce carbon emissions in line with local, national and European environmental objectives. • Potential conflicts between transport emissions, including those from cars, and air quality. • Potential conflicts between increased frequency of noise emissions and protection of sensitive receptors. • Potential conflicts with climate adaptation measures including those relating to flood risk management. 	<p>Also refer to the overall approach to land use zoning and sustainable mobility provided by the Plan.</p> <p>Policy TCFP1: Town Centre: It is a policy of the Council to:</p> <p>(a) Support the implementation of the Town Centre First Programme in Newcastle West.</p> <p>(b) Capitalise on the infrastructural investments in the town that support the Town Centre First programme within the lifetime of this Plan and seek further opportunities to promote Newcastle West as a viable, vibrant and attractive town centre to live, work and visit fulfilling its roles as the service, social, cultural, economic and recreational hub for the local community and hinterland sensitive to the town's rich architectural heritage and improved public realm.</p> <p>(c) Promote high quality place-making and public realm, in accordance with the Limerick Development Plan 2022 – 2028, including the Development Management Standards, any replacement thereof and any relevant Section 28 Guidance. All development shall demonstrate climate resilience measures to climate-proof critical infrastructure.</p> <p>(d) Ensure the highest quality of public realm and urban design principles are applied in the town centre, and the opportunity areas as identified in this Plan.</p> <p>(e) Ensure development proposals are designed in such a manner as to enhance the town centre and should give due consideration to:</p> <ul style="list-style-type: none"> - Site context, - Surrounding Built heritage, - Climate resilience, - Connectivity/Permeability, 	<p>Also refer to the overall approach to land use zoning and sustainable mobility provided by the Plan.</p> <p><i>Objective IN O1 Climate Action in Infrastructure Planning</i> It is an objective of the Council to:</p> <p>a) Require all infrastructure development, whether above ground or subterranean, to avoid flood risk areas and areas at risk of coastal erosion.</p> <p>b) Require site selection, location, design and materials to have regard to and be resilient to the changing climate (high winds, temperature fluctuations, increased storm intensity and changes in rainfall).</p> <p>c) Collaborate with utility and service providers to ensure their networks are resilient to the impacts of climate change, both in terms of design and ongoing maintenance.</p> <p><i>Policy EH P3 Climate Action and the Natural Environment</i> It is a policy of the Council to take into account the contents of the National Biodiversity Action Plan and the Biodiversity Climate Adaptation Plan and any forthcoming guidance or legislation on climate action, whether adaptation or mitigation that will emerge during the course of the Plan.</p> <p>Air Quality and Noise <i>Objective EH O25 Air Pollution</i> It is an objective of the Council to implement the provisions of national and EU Directives on air pollution and other relevant legislative requirements in conjunction with other agencies as appropriate.</p> <p><i>Objective EH O26 Improvement of Air Quality</i> It is an objective of the Council to improve air quality and help prevent people being exposed to unacceptable levels of pollution in Limerick, through the support of sustainable modes of transport, renewable energy, promotion of energy efficient buildings and homes and urban greening.</p> <p><i>Objective EH O27 Air Quality Monitoring</i> It is an objective of the Council to monitor and provide access to the public on the air quality in Limerick and support the EPA in the expansion and management of the national air quality monitoring network.</p> <p><i>Objective EH O28 Air Quality during Construction</i> It is an objective of the Council to protect environmental quality and implement site appropriate mitigation measures during construction and demolition phases of a development, with respect to air quality, including dust.</p> <p><i>Objective EH O29 Odour</i> It is an objective of the Council to protect the public from odour nuisance issues through odour abatement solutions.</p>

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		<p>- Public realm improvements, - Adaptability, - Privacy, - Amenity, - Parking provision.</p> <p>Policy TCFP2: Town Centre First and '10 Minute' Town Concept - It is policy of the Council to:</p> <p>a) Implement the 10 Minute Town Concept in accordance with the Ten Minute Towns Accessibility and Framework Report, in Newcastle West ensuring that future development including residential, community and educational facilities, employment centres are within a 10-minute walk or cycle from the town centre and/or accessible by public transport services connecting to settlements, including Limerick City, North Kerry, West Limerick and North Cork.</p> <p>b) Prioritise the town centre as the most appropriate location for future development of the town. Planning applications for future development will be assessment as per the zoning objectives of this Plan and considered sequentially in relation to the town centre zoning.</p> <p>Policy SMTP1 - Integration of Land Use and Transport: It is a policy of the Council to: Support and facilitate the integration of land use and transportation policies for Newcastle West, as a means of reducing the impact on climate change. The Council will ensure the delivery of a sustainable compact settlement, which can be served by sustainable modes of transport with a focus on reducing the need to travel.</p> <p>Policy SMTP2 - Promotion of Sustainable Patterns of Transport: It is a policy of the Council to: Seek to implement in a positive manner, in cooperation with other relevant stakeholders and agencies, including the Nation Transport Authority (NTA), the policies of the NPF, RSES and the Department of Transport's Active Travel publications and the National Sustainable Mobility Policy (2022), to encourage more sustainable patterns of travel and greater use of sustainable forms of transport in Newcastle West, including public transport, cycling and walking.</p> <p>Objective SMT01 - Local Transport Plan: It is an objective of the Council to: Implement the Local Transport Plan for Newcastle West and all actions/recommendations contained within, in particular: (a) The walking/Cycling Strategy for Newcastle West and subsequent walking/connectivity actions and cycling/connectivity actions as set out in Table 4.1 (Pedestrian Infrastructure interventions/actions) and Table 4.2 (Cycle Infrastructure Intervention/actions) of the Local Transport Plan and figure x.x and figure x.x below. (b) The roads strategy for Newcastle West and subsequent roads/connectivity actions as set out in Table 4.3 (Road interventions/actions) of the Local Transport Plan and figure x.x below. (c) The prioritisation, detailed design and delivery of the interventions/actions set out above and in the Local Transport Plan for Newcastle West will be progressed during this lifetime</p>	<p><i>Policy EH P7 Environmental Noise</i> It is a policy of the Council to proactively manage environmental noise, where it may have a significant adverse impact on the health and quality of life of communities in Limerick and to support the aims of the Environmental Noise Regulations, through the development and implementation of Noise Action Plans.</p> <p><i>Objective EH O20 Noise and Vibration during Construction and at Open Sites</i> It is an objective of the Council to protect the quality of the environmental against the effects of noise and vibration, by implementing site appropriate mitigation measures during the construction and demolition phases of development.</p> <p><i>Policy EH P6 Water and Air Quality</i> It is a policy of the Council to ensure that water and air quality shall be of the highest standard, to ensure the long term economic, social and environmental well-being of Limerick's resources. The World Health Organisation Air Quality Guidelines will be the basis for the air quality guidance in Limerick.</p> <p><i>Objective TR O53 Noise and Transportation</i> It is an objective of the Council to identify appropriate mitigation measures to reduce noise levels from traffic where they are potentially harmful, in accordance with Limerick's Noise Action Plan.</p> <p><i>Objective TR O54 Noise Sensitive Development</i> It is an objective of the Council to require noise sensitive developments in close proximity to heavily trafficked roads to be designed and constructed to minimise noise disturbance, follow a good acoustic design process and clearly demonstrate that significant adverse noise impacts will be avoided in accordance with Professional Practice Guidance on Planning and Noise (2017) and based on the guidance and recommendations of the World Health Organisation.</p> <p>Sustainable Mobility and Transport <i>Policy TR P3 Integration of Land Use and Transport Policies</i> It is a policy of the Council to support and facilitate the integration of land use and transportation policies, to ensure the delivery of sustainable compact settlements, which are served by sustainable modes of transport.</p> <p><i>Policy TR P4 Promotion of Sustainable Patterns of Transport Use</i> It is a policy of the Council to seek to implement in a positive manner, in cooperation with other relevant authorities and agencies, the policies of the NPF, RSES and the Department of Transport's Smarter Travel, A Sustainable Transport Future 2009 – 2020 (and any subsequent updates), to encourage more sustainable patterns of travel and greater use of sustainable forms of transport, including public transport, cycling and walking.</p> <p><i>Policy TR P5 Sustainable Mobility and Regional Accessibility</i> It is a policy of the Council to support sustainable mobility, enhanced regional accessibility and connectivity within Limerick, in accordance with the National Strategic Outcomes of the National Planning Framework and the Regional Spatial and Economic Strategy for the Southern Region.</p> <p><i>Policy TR P6 Sustainable Travel and Transport</i> It is a policy of the Council to support, facilitate and co-operate with relevant agencies to secure sustainable travel within Limerick and seek to implement the 10 minute city/town concept, promote compact growth and reduce the need for long distance travel, as a means to reduce the impact of climate change.</p> <p><i>Objective TR O1 Climate Proofed Transport Infrastructure</i> It is an objective of the Council to ensure that all future and retrofitted transport infrastructure is climate proofed, through design and construction, to function in a climate altered future and would, where possible, be multifunctional e.g. provide accessible routes for other services such as fibre optics or water, energy connections or other services and technologies that might come about during the lifetime of the infrastructure.</p> <p><i>Objective TR O3 Delivery and Servicing Strategy</i> It is an objective of the Council to: a) Reduce the amount of 'last mile trips' being made by motorised vehicles; b) Facilitate the transition to zero emission delivery vehicles such as cargo bikes, solar powered and electric vehicles; and c) Support local 'Click and Collect' facilities where appropriate to minimise trips to individual homes and workplaces.</p> <p><i>Objective TR O4 Universal Design</i> It is an objective of the Council to ensure that all transport schemes incorporate high-quality urban realm design that is attractive, safe, comfortable and accessible for all individuals.</p> <p><i>Objective TR O6 Delivering Modal Split</i> It is an objective of the Council to: a) Promote a modal shift away from the private car towards more sustainable modes of transport including walking, cycling, carpool and public transport in conjunction with the relevant transport authorities; b) Support investment in sustainable transport infrastructure that will make walking, cycling, carpool and public transport more attractive, appealing and accessible for all.</p>

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		<p>of this plan.</p> <p>Objective SMT02 - Supporting Modal Split: It is an objective of the council to:</p> <ul style="list-style-type: none"> a) Encourage, promote and facilitate a modal shift towards more sustainable forms of transport in Newcastle West, including the Limerick Greenway. b) Support and facilitate implementation of an integrated, multi-modal and accessible public transport network for Newcastle West and its hinterland. c) Investigate the potential of providing a mobility hub at an appropriate location in the town centre. <p>Objective SMT03 - Walking and Cycling: It is an objective of the council to:</p> <ul style="list-style-type: none"> a) Enhance the walking and cycling networks through the town within the lifetime of the Plan and seek to improve direct pedestrian linkages, cycle networks and infrastructure throughout the town and improve connectivity to the town centre and existing services. b) Incorporate Sustainable Travel measures in all new developments in the town. c) Support the progression of enhancing connectivity between the Limerick Greenway and the town centre by safe walkway/cycleway route, subject to the necessary environmental assessments. d) To develop a pedestrian and cycle route between the Greenway to the Demesne and improve the linkage to the town centre. e) To develop appropriate linkages and permeability from Bishop Street to The Square. f) Facilitate school zone measures, including slow zones around the schools, and promote/facilitate active travel options for students to reduce the health and safety risks associated with traffic congestion, pollution and inactive lifestyles. <p>Policy SMTp3 - Sustainable Mobility and Regional Accessibility: It is a policy of the Council to:</p> <ul style="list-style-type: none"> a) Support the progression of the N21 Newcastle West Road Scheme (as already provided by the Limerick Development Plan 2022-2028, including Objective TR O31), and associated linkage into the town centre, to provide improved regional connectivity and ensure future development proposals do not compromise the development of this scheme. b) Maintain the strategic function, capacity and safety of the national roads network, including planning for future capacity enhancements. c) Support enhanced regional accessibility and to relieve congestion on the N21 Limerick to Tralee Road through Newcastle West in accordance with the National Strategic Outcomes of the National Planning Framework and the Regional Spatial and Economic Strategy for the Southern Region. <p>CHP1 - Climate Change Strategic Policy: It is a policy of the council to</p> <p>Protect and enhance environmental quality and implement the climate action measures through the planning process to help tackle climate change.</p>	<p><i>Objective TR O8 Walking and Cycling Infrastructure</i></p> <p>It is an objective of the Council to:</p> <ul style="list-style-type: none"> a) Improve and provide clear, safe and direct pedestrian linkages, cycle networks, including the greenways and primary segregated cycle routes, between the employment zones, shopping areas and residential areas throughout Limerick; b) Maintain and expand the pedestrian route network, infrastructure and where possible retrofit cycle and pedestrian routes into the existing urban road network, to provide for accessible safe pedestrian routes within Limerick. <p><i>Objective TR O9 Limerick Cycle Network</i></p> <p>It is an objective of the Council to implement in full, the Cycle Network, which will be set out in the final LSMATS, with priority given in the short term to delivering the primary cycle network and cycle routes serving schools.</p> <p><i>Objective TR O10 Limerick Regeneration Areas Sustainable Travel Infrastructure</i></p> <p>It is an objective of the Council to support LSMATS in the identification and delivery of improvements to walking/cycling infrastructure and improvements to public transport, based on those measures identified in the Limerick Regeneration Framework Implementation Plan.</p> <p><i>Objective TR O11 Enhanced Public Transport</i></p> <p>It is an objective of the Council to support and encourage public transport providers to enhance the provision of public transportation and frequency of services in Limerick, including the provision of enhanced accessibility from the City Centre to Shannon Airport.</p> <p><i>Objective TR O15 Transport Interchange</i></p> <p>It is an objective of the Council to facilitate the provision of quality transport interchanges, in order to facilitate focussed access to multiple public transport modes and to maximise the movement of people via sustainable modes.</p> <p><i>Objective TR O16 Rail Network</i></p> <ul style="list-style-type: none"> a) Explore a pathway to rail-based development in the review of the RSES and MASP in conjunction with the National Transport Authority and the Southern and Western Regional Assemblies; b) Support and facilitate new and upgrading of existing rail networks, railway stations and services across Limerick as identified in LSMATS and protect, as required, lands necessary for the upgrading of existing railway lines or stations, which would improve journey times and enable an increase in the frequency of services and connections. <p><i>Objective TR O17 Electric Vehicles</i></p> <p>It is an objective of the Council to:</p> <ul style="list-style-type: none"> a) Encourage the switch to Electric Vehicles and e-bikes through the roll-out of additional electric charging points at appropriate locations, throughout Limerick, in association with relevant agencies and stakeholders; b) Facilitate the provision of electricity charging infrastructure for electric vehicles, both on street and in new developments, in accordance with the Development Management Standards set out in Chapter 11. <p><i>Objective TR O23 Mobility Management</i></p> <p>It is an objective of the Council to require the submission of Mobility Management Plans, subject to the guidance provided in the Toolkit for School Travel, Safe Routes to School Programme, Workplace Travel Plans – A Guide for Implementers and Achieving Effective Workplace Travel Plans – Guidance for Local Authorities, for any development that the Council consider will have significant trip generation and attraction rates, at peak hours or throughout the day and where existing or proposed public transport may be utilised.</p> <p>Climate Action and Transition to Low Carbon Economy</p> <p><i>Policy CAF P1 Climate Action Policy</i></p> <p>It is a policy of the Council to implement international and national objectives, to support Limerick’s transition to a low carbon economy and support the climate action policies included in the Plan.</p> <p><i>Objective CAF O1 Compliance with Higher Tier Climate Legislation and Guidance</i></p> <p>It is an objective of the Council to support the National Adaptation Framework 2018 and the National Climate Change Strategy, including the transition to a low carbon future, taking account of flood risk, the promotion of sustainable transport, soil conservation, the importance of green infrastructure, improved air quality, the use of renewable resources and the re-use of existing resources. Support the implementation of the Limerick Climate Change Adaptation Strategy (2019) and any revised or forthcoming adaptation, mitigation or climate action strategies or plans at local, regional and national level in the formulation of any plans or policies.</p> <p><i>Objective CAF O2 Partnership with Service Providers</i></p> <p>It is an objective of the Council to work in partnership with existing service providers to facilitate required enhancement and upgrading of existing infrastructure and networks (subject to appropriate environmental assessment and the planning process) while cognisance shall be had to support the safeguarding of strategic energy corridors from encroachment by other developments, that could compromise the delivery of energy networks.</p> <p><i>Objective CAF O3 Sustainable Development</i></p> <p>It is an objective of the Council to support sustainable travel, energy efficient projects, provision of green spaces and open space and sustainable residential development projects, as a means of addressing climate change.</p>

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		<p>Objective CHO1 - Climate Change: It is an objective of the Council to</p> <p>a) Ensure climate-proofing measures are incorporated into the design, planning and construction of all developments, including utilities and their networks. The use of green infrastructure as a mechanism for carbon offsetting and surface water management is encouraged.</p> <p>b) Ensure that all residential and commercial developments are designed to take account of the impacts of climate change, including the installation of rainwater harvesting systems, and that energy efficiency and renewable energy measures are incorporated. In the case of large industrial, commercial or newly constructed public buildings, the incorporation of renewable technologies, such as solar energy in the design will be encouraged, subject to compliance with all relevant planning criteria.</p> <p>c) Support and promote climate smart and the NZEB standard of building or equivalent for all new developments.</p> <p>d) Promote and support development of renewable energy sources, which will achieve low carbon outputs and promote Newcastle West as a low carbon area.</p> <p>e) Support the development of low carbon and green technological businesses and industries.</p> <p>f) Promote responsible development and management of land, drainage systems and natural habitats and encourage development at appropriate locations, which minimise the use of fossil fuels and maximises the use of local or renewable resources.</p> <p>g) Promote the appropriate adaption of built heritage to respond to the effects of climate change.</p> <p>h) Protect and enhance environmental quality and implement current and future climate action measures and guidance that may be published during the life time of the plan through the planning process to help address climate change</p>	<p><i>Objective CAF 04 Climate Proofing</i> It is an objective of the Council to ensure climate proofing measures are incorporated into the design, planning, layout and orientation and construction of all developments, including the use of sustainable materials, selection of suitable locations and the use of renewable energy sources.</p> <p><i>Objective CAF 05 Energy Efficiency in Existing Development</i> It is an objective of the Council to support the retrofitting of existing buildings over their demolition and the integration of renewables into existing buildings, thereby ensuring a fabric first approach is taken.</p> <p><i>Objective CAF 06 Energy Efficiency in New Developments</i> It is an objective of the Council to ensure that all developments are designed to take account of the impacts of climate change. This will include the installation of rainwater harvesting systems, sustainable urban drainage systems and nature based solutions for water management. Energy efficiency and renewable energy measures should be incorporated, in the cases of large industrial, commercial or newly constructed public buildings. The incorporation of renewable technologies, such as solar energy in the design will be encouraged, subject to compliance with all relevant planning criteria.</p> <p><i>Objective CAF 07 Near Zero Energy Buildings</i> It is an objective of the Council to support and promote climate smart and the Near Zero Energy Building (NZEB) standard of building, or equivalent, for all new developments.</p> <p><i>Objective CAF 08 Renewable Energy Objective</i> It is an objective of the Council to promote and support development of renewable energy sources, which will achieve low carbon outputs including on-land and off-shore renewable energy production, which support tidal turbine, PV, community energy companies and battery technology, subject to adequate environmental and ecological protection.</p> <p><i>Objective CAF 09 Achieving Climate Resilience</i> It is an objective of the Council to promote climate resilience in development and economic activities that are regulated by planning. It is important to ensure that any developments are climate resilient as they will need to function in a climate altered environment. This means that they will be able to withstand increased intensity of storm events and rainfall and through adequate design, location and drainage elements, would not contribute to problems elsewhere, such as increased run off.</p> <p><i>Objective CAF 012 Urban Greening</i> It is an objective of the Council to support urban greening and planting initiatives across the city, towns and villages.</p> <p><i>Policy CAF P2 Transition to a Low Carbon Economy</i> It is a policy of the Council to support the transition to a low carbon climate resilient economy, by way of reducing greenhouse gases, increasing renewable energy and improving energy efficiency and will future proof policies and objectives to deliver on this approach, in so far as possible.</p> <p><i>Policy CAF P3 Promote Awareness and Behavioural Change</i> It is a policy of the Council to promote awareness and support behavioural change in relation to climate change and transition to a low carbon economy.</p> <p><i>Policy CAF P4 Co-operation with Relevant Stakeholders</i> It is a policy of the Council to cooperate with the Climate Action Regional Office (CARO) and other relevant stakeholders, in respect of adaptation and mitigation of greenhouse gas emissions and future climate change adaptation strategies.</p> <p><i>Objective CAF 014 Energy Generation</i> It is an objective of the Council to support the local production of renewable energy and connection to gas network. Where electricity is being generated locally, the Council will support the provision of infrastructure for its transmission to the grid, subject to it fulfilling technical and environmental requirements.</p> <p><i>Objective CAF 015 Local Energy Production</i> It is an objective of the Council to support localised renewable and carbon friendly means of heating and energy provision, including district heating systems. New technologies such as air to water and geothermal may have a role to play in this regard.</p> <p><i>Objective CAF 016 Circular Economy</i> It is an objective of the Council to encourage the adoption of the circular economy through promotion of the reuse, recycling and reduction of the use of raw materials and resources.</p> <p><i>Objective CAF 017 Low Energy Building Materials</i> It is an objective of the Council to encourage the use of low energy building materials and design in all developments.</p> <p><i>Objective TLC 018 Energy and Emissions Balance</i> It is an objective of the Council to support the Energy and Emissions Balance Report and updates of the report as they are prepared. The Council will also support the preparation of a Local Authority Climate Action Plan as outlined in the report.</p> <p><i>Objective CAF 019 Decarbonising Zones</i> It is an objective of the Council to support the identification of a Decarbonising Zone by designating a spatial area, in which a range of climate mitigation, adaptation and biodiversity measures and action owners are identified, to address local low carbon energy, greenhouse gas emissions and climate needs, to contribute to national climate action targets and work with statutory agencies and</p>

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			<p>stakeholders as appropriate.</p> <p><i>Objective CAF O22 Cooperation with Other Agencies</i> It is an objective of the Council to work with other bodies and organisations, as appropriate, to help protect critical infrastructure, including water and wastewater, within Limerick, from risk of flooding. Any subsequent plans shall consider, as appropriate any new and/or emerging data, including, when available, any relevant information contained in the CFRAM Flood Risk Management Plans and as recommended in the SFRA for the Plan.</p> <p><i>Policy CAF P6 Renewable Energy</i> It is a policy of the Council to support renewable energy commitments outlined in national and regional policy, by facilitating the development and exploitation of a range of renewable energy sources at suitable locations throughout Limerick, where such development does not have a negative impact on the surrounding environment landscape, biodiversity, water quality or local amenities, to ensure the long term sustainable growth of Limerick.</p> <p><i>Policy CAF P7 Atlantic Green Digital Basin (GDB)</i> It is a policy of the Council to support the development of Atlantic Green Digital Basin (GDB) proposals within Limerick and the wider region, subject to appropriate levels of environmental assessment and planning considerations and to work with relevant stakeholders to realise its potential.</p> <p><i>Policy CAF P8 Community Based Renewable Energy</i> It is a policy of the Council to support the development of community based renewable energy projects, subject to appropriate levels of environmental assessment and planning considerations.</p> <p><i>Policy CAF P9 Renewable Energy Technologies</i> It is a policy of the Council to consider all emerging renewable energy technologies, such as hydrogen electrolysis, pumped storage and small scale anaerobic digestion and any other source of renewable energy technologies that are viable as a means of energy security, subject to the relevant level of necessary environment and ecological assessments.</p> <p><i>Objective CAF O26 Bio Energy</i> It is an objective of the Council to support the development of bio energy and projects in suitable locations and subject to adequate assessment. The development of grid injection, where this is necessary for renewable energy input will also be supported.</p> <p><i>Objective CAF O27 Renewable Energy Production</i> It is an objective of the Council to encourage and facilitate the production of energy from renewable sources, such as from bioenergy, solar, hydro, tidal, geothermal and wind energy, subject to appropriate levels of environmental assessment and planning considerations.</p> <p><i>Objective CAF O28 Assessment of Renewable Energy Projects</i> It is an objective of the Council to encourage the development of wind energy, in accordance with Government policy and having regard to the principles and planning guidance set out in the Department of Housing, Planning and Local Government publications relating to Wind Energy Development and the DCCAE Code of Practice for Wind Energy Development in Ireland and any other relevant guidance, which may be issued in relation to sustainable energy provisions during the course of the Plan.</p> <p><i>Objective CAF O35 Community Based Energy Initiatives</i> It is an objective of the Council to support community energy-based initiatives, subject to adequate assessment, to help achieve low carbon communities.</p> <p><i>Objective CAF O36 Geothermal Energy</i> It is an objective of the Council to facilitate geothermal energy generating developments, both standalone and in conjunction with other renewable energy projects in suitable locations.</p> <p><i>Objective CAF O40 Community Renewable Energy</i> It is an objective of the Council to support and strengthen sustainable local/community renewable energy networks, micro renewable generation, climate smart countryside projects and connections from such initiatives to the grid. The potential for sustainable local/community energy projects and micro generation to both mitigate climate change and to provide for local fuel need is also supported.</p> <p><i>Development Management Standards</i>, including under 11.7 "Climate Action"</p>
Material Assets	<ul style="list-style-type: none"> Failure to provide adequate and appropriate waste water treatment (water services infrastructure and capacity ensures the mitigation of potential conflicts). Failure to adequately 	<p>Also refer to measures under other environmental components including Population and Human Health, Cultural Heritage, Soil, Water, Air, various Land Use provisions.</p> <p>Policy IUP1 - Infrastructure and Utilities: It is the policy of the Council to:</p> <p>Ensure the provision of adequate infrastructure capacity to accommodate future development and the timely provision of infrastructure needed for the sustainable growth of Newcastle West.</p>	<p>Also refer to measures under other environmental components including Population and Human Health, Cultural Heritage, Soil, Water, Air, various Land Use provisions.</p> <p><i>Policy IN P1 Strategic Infrastructure</i> It is a policy of the Council to:</p> <p>a) Secure investment in the necessary infrastructure (including digital technology, ICT, telecommunications networks, water services, surface water management, waste management, energy networks), which will allow Limerick to grow and realise its full potential.</p> <p>b) Fulfil Limerick's ambition as a contemporary City and County in which to live, work, invest and visit, with supporting infrastructure, whilst complying with the relevant EU Directives and national legislation, including the protection of the environment.</p> <p>Blue/Green Infrastructure</p>

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	<p>treat surface water run-off that is discharged to water bodies (water services infrastructure and capacity ensures the mitigation of potential conflicts).</p> <ul style="list-style-type: none"> • Failure to comply with drinking water regulations and serve new development with adequate drinking water (water services infrastructure and capacity ensures the mitigation of potential conflicts). • Increases in waste levels. • Potential impacts upon public assets and infrastructure. • Interactions between agricultural waste and soil, water, biodiversity and human health – including as a result of emissions of ammonia from agricultural activities (e.g. manure handling, storage and spreading) and the production of secondary inorganic particulate matter. 	<p>Objective IUO1 – Water Supply Infrastructure: It is an objective of the Council to:</p> <ol style="list-style-type: none"> Ensure compliance for infrastructure led-growth in accordance with the DHPLG Water Services Guidelines for Planning Authorities. Facilitate improvements to the existing water supply system to cater for the needs of an expanding population. Ensure that development proposals provide adequate water infrastructure to facilitate proposed developments. Evidence of consultation by developers with Uisce Éireann prior to submitting planning applications will be required. Ensure future development protects existing wayleave and buffer zones around public water services infrastructure. Promote water conservation and demand management measures among all water users, and to support Uisce Éireann in implementing water conservation measures such as leakage reduction and network improvements, including innovative solutions in specific situations. Proposals for abstractions of water will be subject to the appropriate environmental assessments and demonstrate compliance with the requirements of Article 6 of the Habitats Directive and the Water Framework Directive. <p>Objective IUO2 – Wastewater Infrastructure: It is an objective of the Council to:</p> <ol style="list-style-type: none"> Support the implementation of the Uisce Éireann Investment Plans, in accordance with the settlement strategy of the RSES and Development Plan. Ensure adequate wastewater infrastructure is available to cater for existing and proposed development, in collaboration with Uisce Éireann, avoiding any deterioration in the quality of receiving waters and ensuring discharge meets the requirements of the Water Framework Directive. This includes the separation of foul and surface water through the provision of separate networks and nature-based rainwater management measures. Applications for development under the Plan must demonstrate that the proposal for development would not adversely affect a water body's ability to meet its objectives under the Water Framework Directive, individually as a result of the proposed development or cumulatively, in combination with other developments. Evidence of consultation by developers with Uisce Éireann, prior to submitting a planning application will be required. Ensure compliance for infrastructure led-growth in accordance with the DHPLG Water Services Guidelines for Planning Authorities. Facilitate improvements to the existing wastewater system to cater for the needs of an expanding population. Ensure future development protects existing wayleave and buffer zones around public water services infrastructure <p>Objective IUO3 – Surface Water and SUDs: It is an objective of the Council to:</p> <ol style="list-style-type: none"> Maintain, improve and enhance the environmental and ecological quality of surface waters and groundwater, including reducing the discharges of pollutants or contaminants to waters in accordance with the Draft River Basin Management Plan for Ireland 2022-2027 (DHPLG) and 	<p><i>Objective EH O12 Blue Green Infrastructure</i> It is an objective of the Council to:</p> <ol style="list-style-type: none"> Promote a network of Green and Blue infrastructure throughout Limerick. Promote connecting corridors for the movement of species and encourage the retention and creation of features of biodiversity value, ecological corridors and networks that connect areas of high conservation value such as woodlands, hedgerows, earth banks, watercourses, wetlands and designated sites. In this regard, new infrastructural projects and linear developments in particular, will have to demonstrate at design stage, sufficient measures to assist in the conservation of and dispersal of species. Projects which would be detrimental to existing Blue – Green Infrastructure features will not be permitted. Ensure the integration and strengthening of green infrastructure into the preparation of Local Area Plans. Where possible remove barriers to species movement, such as the removal of in-stream barriers to fish passage for example. <p><i>Objective EH O13 Blue Green Infrastructure Strategy</i> It is an objective of the Council to prepare and implement a Green and Blue Infrastructure Strategy for Limerick City and Environs.</p> <ol style="list-style-type: none"> Seek to advance the use of an ecosystem services approach and ecosystem services valuation as a decision-making tool in plans and projects, subject to appropriate ecological assessment. <p><i>Water Services</i> <i>Objective IN O5 Water Services</i> It is an objective of the Council to:</p> <ol style="list-style-type: none"> Support Irish Water in the provision of water and wastewater infrastructure and services in accordance with the Service Level Agreement, until such time as the Agreement is terminated. Collaborate with Irish Water in the protection of water supply sources to avoid water quality deterioration and reduce the level of treatment required in the production of drinking water, in accordance with Article 7(2) of the WFD. Protection and restoration of drinking water at the source can have co-benefits for biodiversity and climate change. Liaise with Irish Water during the lifetime of the Plan to secure investment in the pro-vision, extension and upgrading of the piped water distribution network and wastewater pipe network across Limerick City and County, to serve existing population and future population growth and sustain economic growth, in accordance with the requirements of the Core and Settlement Strategies. Collaborate with Irish Water to resolve the existing water services infrastructural constraints in Newcastle West – a Key Town designated by the RSES. Ensure that development proposals connecting to the public water and/or wastewater networks comply with Irish Water Standard Details and Codes of Practice. Where relevant ensure developments comply with the EPA Code of Practice for Domestic Waste Water Treatment Systems 2021. Require future developments to connect to public water services and wastewater if available to the site. Combined water and wastewater systems will not be permitted. Consent to connect to Irish Water assets will be requested as part of the planning application process. Have regard to Section 28 Guidelines – Draft Water Services Guidelines for Planning Authorities, DHPLG, 2018 and any subsequent guidelines when carrying out the forward planning and development management functions of the Planning Authority. <p><i>Objective IN O6 Drinking Water Source Protection</i> It is an objective of the Council to protect both ground and surface water sources, to avoid water quality deterioration and reduce the level of treatment required in the production of drinking water, in accordance with Article 7(2) of the Water Framework Directive.</p> <ol style="list-style-type: none"> New developments which could pose an unacceptable risk to drinking water sources will not be permitted. New development should not conflict with the protection guidelines set out in the Limerick Groundwater Protection Scheme and/ or Groundwater Source Protection Zone reports. <p><i>Objective IN O8 Public Waste Water</i> It is an objective of the Council to:</p> <ol style="list-style-type: none"> Ensure adequate and appropriate wastewater infrastructure is available to cater for existing and proposed development, in collaboration with Irish Water, to avoid any deterioration in the quality of receiving waters and to ensure that discharge meets the requirements of the Water Framework Directive. Require all new developments to connect to public wastewater infrastructure, where available and to encourage existing developments that are in close proximity to a public sewer to connect to that sewer. These will be subject to a connection agreement with Irish Water and evidence of this agreement will be required as part of any planning application. Require all new development to provide separate foul and surface water drainage systems, to maximise the capacity of existing collection systems for foul water. Apply a presumption against any development that requires the provision of private wastewater treatment facilities (i.e. Developer Provided Infrastructure) other than single house systems and in very exceptional circumstances. <p><i>Objective IN O10 Surface Water and SUDs</i> It is an objective of the Council to:</p> <ol style="list-style-type: none"> Ensure the separation of foul and surface water discharges in new developments through the provision of separate networks

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		<p>associated Programme of Measures.</p> <p>b) Require all planning applications to include surface water design calculations to establish the suitability of drainage between the site and the outfall point.</p> <p>c) Require all new developments to include Sustainable Urban Drainage Systems (SuDS) to control surface water outfall and protect water quality.</p> <p>d) Require applicants to investigate the potential for the provision of porous surfaces, where car parking and hard landscaping is proposed.</p> <p>e) Protect the surface water resources of the plan area and in individual planning applications request the provision of sediment and grease traps, and pollution control measures, where deemed necessary.</p> <p>Objective IUO7 – Waste Management: It is an objective of the Council to</p> <p>a) Support the Regional Waste Management Office in implementation of the Regional Waste Management Plan and the EU Action Plan for the Circular Economy – Closing the Loop, to ensure sustainable patterns of consumption and production.</p> <p>b) Require all commercial and residential development to provide an adequate internal and external space for the correct storage of waste and recyclable materials.</p>	<p>within application site boundaries.</p> <p>b) Work in conjunction with other public bodies towards a sustainable programme of improvement for riverbanks, back drains, etc.</p> <p>c) Maintain, improve and enhance the environmental and ecological quality of surface waters and groundwater, including reducing the discharges of pollutants or contaminants to waters, in accordance with the National River Basin Management Plan for Ireland 2018-2021 (DHPLG) and the associated Programme of Measures and any subsequent River Basin Management Plan.</p> <p>d) Ensure adequate storm water infrastructure to accommodate the planned levels of growth within the Plan area and to ensure that appropriate flood management measures are implemented to protect property and infrastructure.</p> <p>e) Cater for the future developments through public and private driven initiatives where discharge capacity permits.</p> <p>f) Address the issue of disposal of surface water generated by existing development in the area, through improvements to surface water infrastructure, including for example attenuation ponds, the application of sustainable urban drainage techniques, or by minimising the amount of hard surfaced areas, or providing porous surfaces as the opportunity arises.</p> <p>g) Protect the surface water resources of the Plan area and in individual planning applications request the provision of sediment and grease traps and pollution control measures where deemed necessary.</p> <p>h) Require all planning applications to include surface-water design calculations to establish the suitability of drainage between the site and the outfall point and require all new developments to include SuDS, to control surface water outfall and protect water quality in accordance with the requirements of Chapter 11: Development Management Standards of the Plan.</p> <p>i) Promote SuDS and grey water recycling in developments and responsible use of water by the wider community, to reduce the demand for water supply.</p> <p>j) Require SuDS schemes to be designed to incorporate the four pillars of water quality, water quantity, biodiversity and amenity to the greatest extent possible within the constraints of a given site.</p> <p>k) Allow sufficient land take for SuDS when planning the site and consider the region as a whole, in association with adjoining lands and their requirements in designing SuDS. Developers may be required to set aside lands to cater for not only their own SuDS but also regional SuDS.</p> <p>l) Promote the provision of suitable Blue/Green Infrastructure (BGI) and Nature Based Solutions to the surface water disposal in new development, as a means to provide urban flood resilience. This approach capitalises on the potential of urban green spaces and natural water flows, subject to the other planning considerations such as amenity, maintenance, traffic safety, proper planning and sustainable development and environmental requirements.</p> <p>m) To prohibit the discharge of additional surface water to combined (foul and surface water) sewers in order to maximise the capacity of existing collection systems for foul water.</p> <p>n) Encourage green roofs for the following types of development:</p> <ul style="list-style-type: none"> -Apartment developments; -Employment developments; -Retail developments; -Leisure facilities; -Education facilities. <p>Traffic</p> <p><i>Objective TR O44 Traffic Management</i></p> <p>It is an objective of the Council to require the submission of Mobility Management Plans and Traffic and Transport Assessments in accordance with the requirements of Traffic and Transport Assessment Guidelines (2014), for developments with the potential to create significant additional demands on the traffic network by virtue of the nature of the activity, the number of employees, their location or a combination of these factors and for significant developments affecting the national and non-national road network.</p> <p>Waste Management</p> <p><i>Objective IN O15 Waste Management and the Circular Economy</i></p> <p>It is an objective of the Council to:</p> <p>a) Support innovative, smart solutions and processes, based on the principles of the circular economy to implement the Regional Waste Management Plan for the Southern Region 2015 – 2021 and any subsequent plan, including any targets contained therein.</p> <p>b) Collaborate with the Regional Waste Management Office and other agencies to implement the EU Action Plan for the Circular Economy – Closing the Loop, 2015, its successor the Circular Economy Action Plan: A New Circular Economy Action Plan for a Cleaner More Competitive Europe, 2020 and the Resource Opportunity-Waste Management Policy, DECLG, 2012 and any subsequent plans.</p> <p>c) Promote sustainable patterns of consumption and production in the areas of product design, production processes and waste management.</p> <p>d) Implement the provisions of the Waste Action Plan for a Circular Economy – Ireland’s National Waste Policy 2020 - 2025, DECC, 2020 in the assessment of planning applications.</p> <p>e) Protect existing civic amenity sites and bring sites throughout Limerick and support the development of additional sites in accordance with the Southern Regional Waste Management Plan 2015 – 2021 and any subsequent plans.</p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
			<p><i>Objective IN O19 Construction and Demolition</i> It is an objective of the Council to:</p> <p>a) Require construction Waste Management Plans to be submitted as part of planning applications, to address waste management on site during construction and mitigation measures to address waste generation, in accordance with the principles of the circular economy and the principles of prevention, renewal and recycle.</p> <p>b) Require a Refurbishment/Demolition Asbestos Survey (RDAS) with full details of disposal of the asbestos to be submitted with any planning application. The RDAS should be carried out in accordance with Section 8 of the Health and Safety Authority, Asbestos Guidelines (Practical Guidelines on ACM Management and Abatement) by a suitable qualified professional with expertise in asbestos disposal.</p> <p><i>Objective IN O21 Hazardous Waste and Contaminated Sites</i> It is an objective of the Council to:</p> <p>a) Implement the EPA's National Hazardous Waste Management Plan (NHWMP) 2014-2020 and any subsequent plans.</p> <p>b) Collaborate and seek guidance from the Environmental Protection Agency (EPA), the Health and Safety Authority (HAS), Health Service Executive (HSE) and Southern Region Waste Management Office, on the technical requirements for clearance and redevelopment of any contaminated lands when dealing with planning applications at these locations.</p> <p><i>Development Management Standards</i>, including under 11.8 "Transport and Infrastructure" and 11.10 "Environmental Infrastructure"</p>
Cultural Heritage	<ul style="list-style-type: none"> Potential effects on protected and unknown archaeology and protected architecture arising from construction and operation activities. 	<p>Objective CH03 Archaeological Heritage: It is an objective of Council to:</p> <p>a) Seek the preservation of all known sites and features of historical and archaeological interest. This includes all the sites listed in the Record of Monuments and Places as established under Section 12 of the National Monuments (Amendment) Act 1994.</p> <p>(b) Protect and preserve all sites and features of historical interest discovered subsequent to the publication of the Sites and Monuments Record, this includes all sites that may be discovered during the course of excavation or construction.</p> <p>(c) Protect and preserve all underwater, riverine archaeological sites.</p> <p>(d) Ensure that any proposed development shall not have a negative impact on the character or setting of an archaeological monument or which is seriously injurious to its cultural or educational value.</p> <p>(e) The area of a monument and the associated buffer area shall not be included as part of the open space requirement demanded of a specific development, but should be additional to the required open spaces; and</p> <p>(f) If appropriate, where such a monument lies within a development, a conservation and/or management plan for that monument shall be submitted as part of the landscape plan for the proposal.</p> <p>(g) Promote awareness of the appropriate adaption of archaeological heritage to climate change as per Government policy 'Built and Archaeological Heritage – Climate Change Sectoral Adaption Plan', 2019 Department of Culture, Heritage and the Gaeltacht, Heritage 2030, and Limerick Climate Adaption Strategy 2019 – 2024 and higher level spatial plans.</p> <p>Objective CHO4 - Architectural Heritage: It is an objective of the Council to: Preserve, protect and enhance the character of Newcastle West including all Protected Structures and attendant grounds in accordance with the best conservation practice and relevant heritage legislation.</p> <p>Objective CHO5 - Built Heritage: It is an objective of the Council to: Promote the protection and improvement of built heritage in</p>	<p><i>Policy EH P5 Protection of the Built Environment</i> It is a policy of the Council to promote high standards for conserving and restoring the built environment and promote its value in improving living standards and its benefits to the economy.</p> <p><i>Objective EH O21 Commercial and Industrial Noise</i> It is an objective of the Council to prevent members of the public being significantly adversely effected by environmental noise from commercial and industrial noise activities.</p> <p><i>Objective EH O22 Entertainment Noise</i> It is an objective of the Council to manage entertainment noise from venues and music events, so as not to have an adverse effect on the public.</p> <p><i>Objective EH O35 Preservation of the Archaeological Heritage</i> It is an objective of the Council to seek the preservation of all known sites and features of historical and archaeological interest. This is to include all the sites listed in the Record of Monuments and Places as established under Section 12 of the National Monuments (Amendment) Act 1994. The preferred option is preservation in situ, or at a minimum preservation by record.</p> <p><i>Objective EH O36 Preservation of unrecorded/newly discovered Archaeological Heritage</i> It is an objective of the Council to protect and preserve the preservation in situ (or at a minimum by record) of all sites and features of historical and archaeological interest, discovered subsequent to the publication of the Record of Monuments and Places.</p> <p><i>Objective EH O38 Protection of the setting of Archaeological Monuments</i> It is an objective of the Council to ensure that no development shall have a negative impact on the character or setting of an archaeological monument.</p> <p><i>Objective EH O39 Proper procedures during the planning process</i> It is an objective of the Council to:</p> <p>a) Ensure early engagement at preplanning stage in undertaken with the Local Authority Archaeologist to promote the 'preservation in situ' of archaeological remains and settings in development.</p> <p>b) Adopt a policy of archaeological monitoring on developments where the scale and nature of such developments may, in the opinion of the Planning Authority, have a negative impact on previously unknown archaeological features/artefacts.</p> <p>c) Require the preparation of an Archaeological Heritage Assessment in cases where it is deemed that Archaeological Heritage would be affected by a proposed development (due to their location, size or nature). The report shall be prepared by a suitably qualified archaeologist on the archaeological implications, if any, of the proposed development either prior to a decision on a planning application or prior to commencement of development on site.</p> <p><i>Objective EH O40 Archaeological Monuments in Local Authority ownership/guardianship</i> It is an objective of the Council to preserve and enhance as appropriate and as funding allows monuments vested in the Local Authority.</p> <p><i>Objective EH O42 Industrial Archaeology</i> It is an objective of the Council to:</p> <p>a) Seek the preservation of buildings and infrastructure associated with former industrial sites;</p> <p>b) Ensure detailed recording of these remains; promote knowledge and interpretation of these sites among the general public;</p> <p>c) Support the work of the Interreg Atlantic Coast Area project, (MMIAH) The recovery and valorisation of Maritime Military and Industrial Heritage.</p>

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Topic	Potentially Significant Adverse Effect, if Unmitigated	Local Area Plan measures, including:	Existing Limerick Development Plan 2022-2028 measures, including:
		<p>accordance with NPO 11 of the Project Ireland 2040, RSES, Limerick Development Plan 2022 – 2028, Section 28 Guidelines, including the Architectural Heritage Protection Guidelines for Planning Authorities.</p> <p>Objective CHO6 - Protected Structures: It is an objective of the Council to:</p> <p>a) Resist the demolition of Protected Structures, in whole or in part, the removal or modification of features of architectural importance, and design element that would adversely affect the character or setting of a Protected Structure, unless exceptional circumstances can be clearly demonstrated by a suitably qualified professional.</p> <p>b) Protect Protected Structures and attendant grounds in accordance with the best conservation practice and relevant heritage legislation</p> <p>c) Support the re-introduction of traditional features on Protected Structures where there is evidence that such features (e.g. window styles, finishes etc.) previously existed.</p> <p>d) Positively consider proposals to improve, alter, extend or change the use of Protected Structures and attendant grounds so as to render them viable for modern use. Proposed works shall be subject to demonstration by a suitably qualified Conservation Architect or other relevant expert that the structure, character, appearance and setting will not be adversely affected and, suitable design, materials and construction methods will be utilised in accordance with best conservation practice and relevant heritage legislation.</p> <p>e) Promote awareness of the appropriate adaption of built heritage to climate change as per Government Draft Heritage Ireland 2030, the Climate Change Sectoral Adaptation Plan for the Built and Archaeological Heritage, 2019, the Built Vernacular Strategy, 2021, the pending National Policy on Architecture, the Limerick Climate Adaption Strategy 2019 – 2024 and higher-level spatial plans. The Council have regard to the Department of Environment, Heritage and Local Government’s publication on Energy Efficiency in Traditional Buildings (2010) and the Irish Standard IS EN 16883:2017 Conservation of Cultural Heritage – Guidelines for Improving the Energy Performance of Historic Buildings (2017) and any future advisory documents in assessing proposed works on Protected Structures.</p> <p>Objective CHO8 – Architectural Conservation Areas (ACA’s): It is an objective of Council to:</p> <p>a) Protect, conserve and where appropriate, enhance the ACA’s as identified in Map 4. The design of any development proposed in the Architectural Conservation Area, including any changes of use of an existing building, should preserve and/or enhance the character and appearance of the Architectural Conservation Area as a whole.</p> <p>b) Proposals for development within the ACA’s shall;</p> <ul style="list-style-type: none"> • Reflect and respect the scale and form of existing structures within the ACA’s in proportioning, overall scale and use of materials and finishes, particularly with reference to the street frontages and seek to contribute to or enhance the character and streetscape of the ACA’s; • Seek to retain/incorporate/replicate exterior features which 	<p><i>Objective EH O44 Raise public awareness and encourage active participation</i> It is an objective of the Council to generally raise public awareness of the archaeological and historic heritage and to assist and encourage active participation by the public, following consultation with National Monuments Service, in the conservation, consolidation and presentation of landmark sites, where this is appropriate and subject to available resources.</p> <p><i>Objective EH O45 Heritage Plan 2017-2030</i> It is an objective of the Council to support the archaeological objectives in the Heritage Plan.</p> <p><i>Objective EH O46 Increase access to Archaeological Monuments</i> It is an objective of the Council to facilitate public access to National Monuments in State or Local Authority care.</p> <p><i>Objective EH O48 Work to Protected Structures</i> It is an objective of the Council to:</p> <p>a) Protect structures included on the RPS from any works that would negatively impact their special character and appearance.</p> <p>b) Ensure that any development proposals to Protected Structures, their curtilage and setting, shall have regard to the ‘Architectural Heritage Protection Guidelines for Planning Authorities’ published by the Department of the Arts, Heritage and the Gaeltacht.</p> <p>c) Ensure that all works are carried out under the supervision of a qualified professional with specialised conservation expertise.</p> <p>d) Ensure that any development, modification, alteration, or extension affecting a Protected Structure and/or its setting, is sensitively sited and designed and is appropriate in terms of the proposed scale, mass, height, density, layout and materials.</p> <p>e) Ensure that the form and structural integrity of the Protected Structure is retained in any redevelopment and that the relationship between the Protected Structure and any complex of adjoining buildings, designed landscape features, or views and vistas from within the grounds of the structure are respected.</p> <p>f) Respect the special interest of the interior, including its plan form, hierarchy of spaces, architectural detail, fixtures and fittings and materials.</p> <p>g) Support the re-introduction of traditional features on protected structures where there is evidence that such features (e.g. window styles, finishes etc.) previously existed.</p> <p>h) Ensure that new and adapted uses are compatible with the character and special interest of the Protected Structure.</p> <p>i) Protect the curtilage of protected structures and to refuse planning permission for inappropriate development within the curtilage and attendant grounds, that would adversely impact on the special character of the Protected Structure.</p> <p>j) Protect and retain important elements of built heritage including historic gardens, stone walls, entrance gates and piers and any other associated curtilage features.</p> <p>k) Ensure historic landscapes and gardens associated with Protected Structures are protected from inappropriate development.</p> <p><i>Objective EH O49 Energy Efficiency of Protected Structures</i> It is an objective of the Council to have regard to the Department of Environment, Heritage and Local Government’s publication on Energy Efficiency in Traditional Buildings (2010) and the Irish Standard IS EN 16883:2017 Conservation of Cultural Heritage – Guidelines for Improving the Energy Performance of Historic Buildings (2017) and any future advisory documents in assessing proposed works on Protected Structures.</p> <p><i>Objective EH O50 National Inventory of Architectural Heritage (NIAH)</i> It is an objective of the Council to review and update the RPS on foot of any Ministerial recommendations including the NIAH and any future updates. The Ministerial Recommendations, made under Section 53 of the Planning Act, will be taken into account when the Planning Authority is considering proposals for development that would affect the historic or architectural interest of these structures.</p> <p><i>Objective EH O51 Architectural Conservation Areas</i> It is an objective of the Council to:</p> <p>a) Protect the character and special interest of an area, which has been designated as an Architectural Conservation Area (ACA) as set out in Volume 3.</p> <p>b) Ensure that all development proposals within an ACA be appropriate to the character of the area having regard to the Character briefs for each area.</p> <p>c) Ensure that any new development or alteration of a building within an ACA or immediately adjoining an ACA, is appropriate in terms of the proposed design, including scale, height, mass, density, building lines and materials.</p> <p>d) Seek a high quality, sensitive design for any new development(s) that are complementary and/or sympathetic to their context and scale, whilst simultaneously encouraging contemporary design which is in harmony with the area. Direction can also be taken from using traditional forms that are then expressed in a contemporary manner, rather than a replica of a historic building style.</p> <p>e) Seek the retention of all features that contribute to the character of an ACA, including boundary walls, railings, soft landscaping, traditional paving and street furniture.</p> <p>f) Seek to safeguard the Georgian heritage of Limerick.</p> <p><i>Objective EH O52 Shopfronts within an ACA</i> It is an objective of the Council to:</p> <p>a) Ensure that all original and traditional shopfronts, which contribute positively to the appearance and character of a streetscape, within an ACA are retained and restored.</p>

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		<p>contribute or enhance the character and streetscape of the ACA's such as shop fronts, sash windows, gutters and down pipes, decorative plasterwork etc;</p> <ul style="list-style-type: none"> • Ensure priority is given to the pedestrian, to inclusive access, and to facilitating the improvement of the quality of the public realm: the latter will include for consideration of the planting of trees in the wider public open spaces, benches for sitting and the articulation of uses through appropriate paving. 	<p>b) Ensure that new shopfronts are well designed, through the sympathetic use of scale, proportion and materials</p>
Landscape	<ul style="list-style-type: none"> • Occurrence of adverse visual impacts and conflicts with the appropriate protection of designations relating to the landscape. 	<p>Also refer to measures under Biodiversity and Flora and Fauna and Cultural Heritage</p> <p>Objective EDO1: Enterprise and Employment Objectives: It is an objective of Council to:</p> <p>a) Encourage the redevelopment of vacant commercial units, brownfield, derelict, and infill sites for local enterprise development subject to the normal planning criteria</p> <p>b) Ensure any proposals for the lands zoned for Enterprise and Employment adjoining national or regional roads include a Traffic and Transport Assessment, to ensure that the local road network and associated junctions have sufficient capacity to facilitate the extent of the development planned. The costs of implementing mitigation measures arising from the assessment shall be borne by the developer.</p> <p>c) Any proposals on lands zoned enterprise and employment adjoining the R521, Ardagh Road and the N21 shall ensure the provision of a minimum 20m landscaped buffer zone between proposed development and residential developments.</p> <p>d) Promote a diverse range of employment opportunities by facilitating appropriate development on appropriately zoned Enterprise and Employment lands, subject to compliance with all relevant Development Management Standards of the Proposed Limerick Development Plan 2022 – 2028.</p> <p>e) Ensure any proposal for part of the lands zoned Enterprise and Employment does not preclude the development of the remaining zoned lands. Any proposal submitted on these lands shall include an indicative layout which allows for a coordinated development of the remaining zoned lands.</p> <p>f) Retain sufficient lands around the site boundaries where industrial, enterprise or distribution activities are proposed to accommodate landscaping to soften the visual impact and reduce the biodiversity loss of the development.</p> <p>g) Early engagement with all utilities providers, including Uisce Eireann is strongly advised.</p> <p>h) Promote inter-urban linkages and partnerships across county boundaries, capitalising on collective strengths to attract investment in Newcastle West, the wider West Limerick /North Kerry region and the Atlantic Economic Corridor.</p>	<p>Also refer to measures under Biodiversity and Flora and Fauna and Cultural Heritage.</p> <p><i>Policy EH P8 Landscape Character Areas</i></p> <p>It is a policy of the Council to promote the distinctiveness and where necessary safeguard the sensitivity of Limerick's landscape types, through the landscape characterisation process in accordance with the 'Draft Guidelines for Landscape and Landscape Assessment' (2000) as issued by the Department of Environment and Local Government, in accordance with the European Landscape Convention (Florence Convention) and with 'A National Landscape Strategy for Ireland – 2015- 2025'. The Council shall implement any relevant recommendations contained in the Department of Arts, Heritage and the Gaeltacht's National Landscape Strategy for Ireland, 2015 – 2025.</p> <p>LCA 07 Southern Uplands</p> <p>a) Where housing is permitted, encourage appropriate scale and high-quality design for this landscape area, combined with sensitive site location and landscaping. Respect traditional scale particularly on elevated or locally prominent sites.</p> <p>b) Strongly encourage use of landscaping plans, taking into account existing topography and landforms, in efforts to blend developments into the surrounding landscape. Retention of existing landscape features and their integration and use in helping development to blend into the landscape, is of great importance in any upland area.</p> <p>c) Not permit further forestry developments that are subject to planning permissions over 280m above sea level.</p> <p>d) Encourage development within existing settlements.</p> <p>e) This area is open to consideration for wind energy development.</p> <p>f) Where wind farms are permitted, a random spacing with random layout shall be considered in proposed wind farm developments, to limit the visual and landscape impact.</p> <p>LCA 010 Western Uplands (Western Hills/Barnagh Gap/Sugar Hill)</p> <p>a) Where housing is permitted, encourage appropriate scale and high-quality design for this landscape area, combined with sensitive site location and landscaping. Respect traditional scale particularly on elevated or locally prominent sites.</p> <p>b) Discourage the selection of locally prominent sites.</p> <p>c) Encourage the use of local landform and landscape features, combined with sensitive landscaping in order to screen development.</p> <p>d) Ensure that forestry that is subject to planning permission, is confined to below 280m above sea level to protect intact remnants of peatland habitat.</p> <p>e) This area is open to consideration for wind energy development.</p> <p>f) Where wind farm development is permitted, a random spacing layout shall be considered to limit the visual and landscape impact.</p>

Section 10 Monitoring Measures

10.1 Introduction

The SEA Directive requires that the significant environmental effects of the implementation of plans and programmes are monitored. This section details the measures which can be considered and used as appropriate when it comes to monitoring the likely significant effects of implementing the Plan. The measures may be updated over time, as new requirements and information emerge, for example.

Monitoring can both demonstrate the positive effects facilitated by the Plan and can enable, at an early stage, the identification of unforeseen adverse effects and the undertaking of appropriate remedial action.

The occurrence of significant adverse environmental effects not predicted and mitigated by this assessment, which are directly attributable to the implementation of the Plan, would necessitate consideration of these effects in the context of the Plan and potential remediation action(s) and/or review of part(s) of the Plan.

10.2 Indicators and Targets

Monitoring is based around indicators which allow quantitative measures of trends and progress over time relating to the Strategic Environmental Objectives identified in Section 5 and used in the evaluation. Indicators are accompanied by targets which are identified with regard to the relevant strategic actions.

Given the position of the Local Area Plan in the land use planning hierarchy beneath the Limerick Development Plan and the Regional Spatial and Economic Strategy for the Southern Region, the measures identified in SEAs for these Plans have been integrated into those for this SEA outlined below. This consistency across the hierarchy of land use plans will improve the efficiency and effectiveness of future monitoring.

Table 10.1 overleaf shows the indicators and targets which have been selected for monitoring the likely significant environmental

effects of implementing the Plan, if unmitigated.

Monitoring is an ongoing process and the programme allows for flexibility and the further refinement of indicators and targets. The Monitoring Programme may be updated to deal with specific environmental issues – including unforeseen effects – as they arise.

10.3 Sources

The Plan forms part of the wider land use planning framework comprising a hierarchy of policies, plans, programmes, etc. This wider framework, including the National Planning Framework, the Southern RSES and the Limerick Development Plan is subject to its own SEA (and associated monitoring) requirements. Individual projects will be subject to their own monitoring requirements as relevant.

In implementing the Monitoring Programme the Council will take into account this hierarchy of planning and environmental monitoring.

Sources for indicators may include existing monitoring databases (including those maintained by planning authorities and national/regional government departments and agencies) and the output of lower-tier environmental assessment and decision making (including a review of project approvals granted and associated documents and the output of any EIA monitoring programmes).

Internal monitoring of the environmental effects of grants of permission in the Council would provide monitoring of certain indicators on a *grant of permission*⁶¹ basis. Where significant adverse effects as a result of the development to be permitted are identified, such effects could be identified, recorded and used to inform monitoring evaluation.

⁶¹ The likely significant effects of development proposals on environmental sensitivities are further determined during the development management process. Documenting any identified effects as a result of a development to be permitted can help to fulfill monitoring requirements.

10.4 Reporting

A stand-alone Monitoring Report on the significant environmental effects of implementing the Plan will be prepared in advance of the beginning of the review of the Plan. Monitoring frequencies of indicators tend to change although where they are consistent frequencies are identified.

The measures set out on Table 10.1 can be considered and used as appropriate when it comes to monitoring the likely significant effects of implementing the Plan. The indicators may be updated over time, as new requirements and information emerge, for example.

The methodology for monitoring set out below will be undertaken by the Council. Where monitoring beyond existing sources is to be undertaken, it is recommended that industry standard methods are used where they exist and where appropriate.

Reporting may be undertaken in conjunction with the monitoring reporting on other plans, such as the Development Plan and other Local Area Plans.

The Council is responsible for the ongoing review of indicators and targets, collating existing relevant monitored data, the preparation of monitoring evaluation report(s), the publication of these reports and, if necessary, the carrying out of remedial action.

Table 10.1 Indicators, Targets, Sources and Remedial Action⁶²

Environmental Component	SEO Code	Indicators	Targets	Sources	Remedial Action
Biodiversity, Flora and Fauna	BFF	<ul style="list-style-type: none"> Conservation status of habitats and species as assessed under Article 17 of the Habitats Directive 	<ul style="list-style-type: none"> Maintenance of favourable conservation status for all habitats and species protected under national and international legislation Identification of sites of local biodiversity and ecological corridors Require all local level land use plans to include ecosystem services and green/blue infrastructure provisions in their land use plans and as a minimum, to have regard to the required targets in relation to the conservation of European sites, other nature conservation sites, ecological networks, and protected species Implement and review, as relevant, Limerick Heritage Plan 2017-2030 	<ul style="list-style-type: none"> DHLGH report of the implementation of the measures contained in the Habitats Directive - as required by Article 17 of the Directive (every 6 years)⁶³ DHLGH National Birds Directive Monitoring Report for the under Article 12 (every 6 years)⁶⁴ Consultations with the NPWS (see Section 10.4)⁶⁵ 	<ul style="list-style-type: none"> Where condition of European sites is found to be deteriorating this will be investigated with the Regional Assembly and the DHLGH to establish if the pressures are related to Plan actions / activities. A tailored response will be developed in consultation with these stakeholders in such a circumstance. Loss of favourable conservation status of protected habitats and species. Altered zoning objectives in place for the Natura 2000 sites has taken place in the Plan Enforcement action may also be required
		<ul style="list-style-type: none"> Retention of sufficient areas zoned for open space Number of spatial plans that have included ecosystem services content, mapping and policy to protect ecosystem services when their relevant plans are either revised or drafted 	<ul style="list-style-type: none"> Require all local level land use plans to include ecosystem services and green/blue infrastructure provisions in their land use plans and as a minimum, to have regard to the required targets in relation to the conservation of European sites, other nature conservation sites, ecological networks, and protected species Implement and review, as relevant, Limerick Heritage Plan 2017-2030 	<ul style="list-style-type: none"> Internal review of local land use plans 	<ul style="list-style-type: none"> Review internal systems
		<ul style="list-style-type: none"> SEAs and AAs as relevant for new Council policies, plans, programmes etc. 	<ul style="list-style-type: none"> Screen for and undertake SEA and AA as relevant for new Council policies, plans, programmes etc. 	<ul style="list-style-type: none"> Internal monitoring of preparation of local land use plans 	<ul style="list-style-type: none"> Review internal systems
		<ul style="list-style-type: none"> Status of water quality in the County's water bodies 	<ul style="list-style-type: none"> Included under Water below 	<ul style="list-style-type: none"> Included under Water below 	<ul style="list-style-type: none"> Included under Water below
		<ul style="list-style-type: none"> Compliance of planning permissions with Plan measures providing for the protection of Biodiversity and flora and fauna – see Development Plan Chapter 6 "Environment, Heritage, Landscape and Green Infrastructure" 	<ul style="list-style-type: none"> For planning permission to be only granted when applications demonstrate that they comply with all Plan measures providing for the protection of biodiversity and flora and fauna – see Development Plan Chapter 6 "Environment, Heritage, Landscape and Green Infrastructure" 	<ul style="list-style-type: none"> Internal monitoring of likely significant environmental effects of grants of permission 	<ul style="list-style-type: none"> Review internal systems

⁶² Indicators are linked to and should be considered alongside the environmental effects outlined in Table 8.3 and mitigation measures outlined in Table 9.1.

⁶³ Including confirmation with development management that the following impacts have been considered and including use of monitoring data, where available: biodiversity/habitat loss; nitrogen deposition impacts on Natura 2000 sites; recreational disturbance resulting from implementation of tourism and recreation policies and objectives particularly in riparian areas; biodiversity enhancement; and disturbance /visitor pressure impacts of recreation, amenity and tourism development.

⁶⁴ Including confirmation with development management that the following impacts have been considered and including use of monitoring data, where available: biodiversity/habitat loss; nitrogen deposition impacts on Natura 2000 sites; recreational disturbance resulting from implementation of tourism and recreation policies and objectives particularly in riparian areas; biodiversity enhancement; and disturbance /visitor pressure impacts of recreation, amenity and tourism development.

⁶⁵ Including confirmation with development management that the following impacts have been considered and including use of monitoring data, where available: biodiversity/habitat loss; nitrogen deposition impacts on Natura 2000 sites; recreational disturbance resulting from implementation of tourism and recreation policies and objectives particularly in riparian areas; biodiversity enhancement; and disturbance /visitor pressure impacts of recreation, amenity and tourism development.

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Environmental Component	SEO Code	Indicators	Targets	Sources	Remedial Action
Population and Human Health	PHH	<ul style="list-style-type: none"> Implementation of Plan measures relating to the promotion of economic growth as provided for by Development Plan Chapter 5 "A Strong Economy" 	<ul style="list-style-type: none"> For review of progress on implementing Plan objectives to demonstrate successful implementation of measures relating to the promotion of economic growth as provided for by Development Plan Chapter 5 "A Strong Economy" Increase in employment opportunities, services and public services in the Plan area 	<ul style="list-style-type: none"> Internal review of progress on implementing Plan objectives Consultations with DECC (see Section 10.4) 	<ul style="list-style-type: none"> Consultation with Department of Education and interested parties in order to progress suitable development opportunities for the area Review internal systems Consultations with DECC
		<ul style="list-style-type: none"> Number of spatial concentrations of health problems arising from environmental factors resulting from development permitted under the Plan 	<ul style="list-style-type: none"> No spatial concentrations of health problems arising from environmental factors as a result of implementing the Plan 	<ul style="list-style-type: none"> Consultations with the Health Service Executive and EPA 	<ul style="list-style-type: none"> Consultations with the Health Service Executive and EPA
		<ul style="list-style-type: none"> Proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> Increase in the proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> CSO data Monitoring of Limerick City and County Council's Climate Change Adaptation Strategy 2019-2024 	<ul style="list-style-type: none"> Where proportion of population shows increase in private car use above previous CSO figures, the Council will coordinate with the Regional Assembly, the DHLGH, DECC and NTA to develop a tailored response.
		<ul style="list-style-type: none"> Number of spatial plans that include specific green infrastructure mapping 	<ul style="list-style-type: none"> Require all local level land use plans to include specific green infrastructure mapping 	<ul style="list-style-type: none"> Internal review of local land use plans 	<ul style="list-style-type: none"> Review internal systems
Soil (and Land)	S	<ul style="list-style-type: none"> Proportion of population growth occurring on infill and brownfield lands compared to greenfield (also relevant to Material Assets) 	<ul style="list-style-type: none"> Concentrate development in the selected zoned areas and encourage re-use of existing sites Maintain built surface cover nationally to below the EU average of 4% as per the NPF In accordance with National Policy Objectives 3c of the National Planning Framework, a minimum of 30% of the housing growth targeted in any settlement is to be delivered within the existing built-up footprint of the settlement To map brownfield and infill land parcels across the County 	<ul style="list-style-type: none"> EPA Geoportal Compilation of greenfield and brownfield development for the DHLGH AA/Screening for AA for each application 	<ul style="list-style-type: none"> Enforcement, where necessary Where the proportion of growth on infill and brownfield sites is not keeping pace with the targets set in the NPF and the RSES, the Council will liaise with the Regional Assembly to establish reasons and coordinate actions to address constraints to doing so.
		<ul style="list-style-type: none"> Instances where contaminated material generated from brownfield and infill must be disposed of 	<ul style="list-style-type: none"> Dispose of contaminated material in compliance with EPA guidance and waste management requirements 	<ul style="list-style-type: none"> Internal review of grants of permission where contaminated material must be disposed of 	<ul style="list-style-type: none"> Consultations with the EPA and Development Management
		<ul style="list-style-type: none"> Environmental assessments and AAs as relevant for applications for brownfield and infill development prior to planning permission 	<ul style="list-style-type: none"> Screen for and undertake environmental assessments and AA as relevant for applications for brownfield and infill development prior to planning permission 	<ul style="list-style-type: none"> Internal monitoring of grants of permission 	<ul style="list-style-type: none"> Review internal systems

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Environmental Component	SEO Code	Indicators	Targets	Sources	Remedial Action
Water	W	<ul style="list-style-type: none"> Status of water bodies as reported by the EPA Water Monitoring Programme for the WFD Water quality monitoring results by the EPA and by LCCC EPA data under Urban Waste Water Discharges in Ireland Population Equivalents Greater than 500 persons - Reports Performance of WWTP in relation to conditions of discharge licence 	<ul style="list-style-type: none"> Not to cause deterioration in the status of any surface water or affect the ability of any surface water to achieve 'good status' Implementation of the objectives of the River Basin Management Plan Protect and restore areas identified in the River Basin District Management Plan required to achieve "good" status, i.e. 4+ for water quality in line with the Water Framework Directive objectives No deterioration in levels of compliance with drinking water quality standards and maintenance of national average compliance rate 	<ul style="list-style-type: none"> EPA Monitoring Programme for WFD compliance⁶⁶ 	<ul style="list-style-type: none"> Upgrade of WWTPs Ongoing monitoring of discharge licences by staff from the Environment sections Where water bodies are failing to meet at least good status this will be investigated with the DHLGH Water Section, the EPA Catchment Unit, the Regional Assembly and, as relevant, Uisce Éireann to establish if the pressures are related to Plan actions / activities. A tailored response will be developed in consultation with these stakeholders in such a circumstance. Where planning applications are rejected due to insufficient capacity in the WWTP or failure of the WWTP to meet Emission Limit Values, the Council will consider whether it is necessary to coordinate a response with the Regional Assembly, EPA and Uisce Éireann to achieve the necessary capacity.
		<ul style="list-style-type: none"> Number of incompatible developments permitted within flood risk areas 	<ul style="list-style-type: none"> Minimise developments granted permission on lands which pose - or are likely to pose in the future - a significant flood risk 	<ul style="list-style-type: none"> Internal monitoring of likely significant environmental effects of grants of permission 	<ul style="list-style-type: none"> Where planning applications are being permitted on flood zones, the Council will ensure that such grants are in compliance with the Flood Risk Management Guidelines and include appropriate flood risk mitigation and management measures.
Material Assets	MA	<ul style="list-style-type: none"> Programmed delivery of Uisce Éireann infrastructure for all key growth towns in line with Uisce Éireann Investment Plan and prioritisation programme to ensure sustainable growth can be accommodated Number of new developments granted permission which can be adequately and appropriately served with waste water treatment over the lifetime of the Plan 	<ul style="list-style-type: none"> All new developments granted permission to be connected to and adequately and appropriately served by waste water treatment over the lifetime of the Plan Where septic tanks are proposed, for planning permission to be only granted when applications demonstrate that the outfall from the septic tank will not – in combination with other septic tanks – contribute towards any surface or ground water body not meeting the objective of good status under the Water Framework Directive Facilitate, as appropriate, Uisce Éireann in developing water and wastewater infrastructure See also targets relating to greenfield and brownfield development of land under Soil and broadband under Population and Human Health 	<ul style="list-style-type: none"> Internal monitoring of likely significant environmental effects of grants of permission Consultations with the Uisce Éireann (see Section 10.4) DHLGH in conjunction with Local Authorities 	<ul style="list-style-type: none"> Where planning applications are rejected due to insufficient capacity in the WWTP or failure of the WWTP to meet Emission Limit Values, the Council will consider whether it is necessary to coordinate a response with the Regional Assembly, EPA and Uisce Éireann to achieve the necessary capacity.

⁶⁶ Including monitoring of water quality and nitrogen deposition due to bioenergy and agricultural projects where available.

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Environmental Component	SEO Code	Indicators	Targets	Sources	Remedial Action
		<ul style="list-style-type: none"> Access to public amenities and facilities Proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> Increase in area of amenity space within the Plan area Increased usage of open space and rivers as a public amenity Increased visitor number to cultural heritage sites Increase in the proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> CSO data Monitoring of Limerick City and County Council's Climate Change Adaptation Strategy 2019-2024 	<ul style="list-style-type: none"> Enforcement where necessary Ensure that sufficient open space allocation included in Plans Where proportion of population shows increase in private car use above previous CSO figures, the Council will coordinate with the Regional Assembly, the DHLGH, DECC and NTA to develop a tailored response.
Air	A	<ul style="list-style-type: none"> Proportion of journeys made by private fossil fuel-based car compared to previous National Travel Survey levels NO_x, SO_x, PM10 and PM2.5 as part of Ambient Air Quality Monitoring 	<ul style="list-style-type: none"> Decrease in proportion of journeys made by private fossil fuel-based car compared to previous National Travel Survey levels Improvement in Air Quality trends, particularly in relation to transport related emissions of NO_x and particulate matter 	<ul style="list-style-type: none"> CSO data Data from the National Travel Survey EPA Air Quality Monitoring Consultations with Department of Transport and Department of Environment, Climate and Communications (see Section 10.4) 	<ul style="list-style-type: none"> Where proportion of population shows increase in private car use above previous CSO figures, Council will coordinate with the Regional Assembly, DHLGH, DECC and NTA to develop a tailored response. See also entry under Population and human health above
Climatic Factors⁶⁷	C	<ul style="list-style-type: none"> Implementation of Plan measures relating to climate reduction targets 	<ul style="list-style-type: none"> For review of progress on implementing Plan objectives to demonstrate successful implementation of measures relating to climate reduction targets 	<ul style="list-style-type: none"> Internal monitoring of likely significant environmental effects of grants of permission 	<ul style="list-style-type: none"> Establishment of dedicated section to consider climate change Review internal systems
		<ul style="list-style-type: none"> A competitive, low-carbon, climate-resilient and environmentally sustainable economy 	<ul style="list-style-type: none"> Contribute towards transition to a competitive, low-carbon, climate-resilient and environmentally sustainable economy by 2050 	<ul style="list-style-type: none"> Monitoring of Limerick City and County Council's Climate Change Adaptation Strategy 2019-2024 EPA Annual National Greenhouse Gas Emissions Inventory reporting 	<ul style="list-style-type: none"> Where targets are not achieved, the Council will liaise with the Regional Assembly and the Eastern and Midlands Climate Action Regional Office to establish reasons and develop solutions.
		<ul style="list-style-type: none"> Adoption of renewable technologies 	<ul style="list-style-type: none"> Increase in upgraded sources of energy production from renewable sources 		
		<ul style="list-style-type: none"> Carbon dioxide (CO₂) emissions across the electricity generation, built environment and transport sectors Numbers of buildings being upgraded and insulated 	<ul style="list-style-type: none"> Contribute towards achieving the target of a 51% reduction in GHG emissions from 2021 to 2030, and net-zero emissions no later than 2050 	<ul style="list-style-type: none"> Climate Action Regional Office Consultations with DECC (at monitoring evaluation - see Section 10.4) 	
		<ul style="list-style-type: none"> Energy consumption, the uptake of renewable options and solid fuels for residential heating 	<ul style="list-style-type: none"> To promote reduced energy consumption and support the uptake of renewable options and a move away from solid fuels for residential heating 		
		<ul style="list-style-type: none"> Proportion of journeys made by private fossil fuel-based car compared to previous levels 	<ul style="list-style-type: none"> Decrease in the proportion of journeys made by residents of the County using private fossil fuel-based car compared to previous levels 	<ul style="list-style-type: none"> CSO data Monitoring of Limerick City and County Council's Climate Change Adaptation Strategy 2019-2024 	

⁶⁷ Please also refer to relevant legislation and requirements under Section 4.10, Section 8.5 and Appendix I. Targets under the national Climate Action Plan are reviewed and updated periodically and include those under the headings of Electricity, Built Environment, Transport, Agriculture, Forestry & Land Use and Enterprise.

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Environmental Component	SEO Code	Indicators	Targets	Sources	Remedial Action
		<ul style="list-style-type: none"> Proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> Increase in the proportion of people reporting regular cycling / walking to school and work above previous CSO figures 	<ul style="list-style-type: none"> CSO data Monitoring of Limerick City and County Council's Climate Change Adaptation Strategy 2019-2024 	<ul style="list-style-type: none"> Where proportion of population shows increase in private car use above previous CSO figures, the Council will coordinate with the Regional Assembly, the DHLGH, DECC and NTA to develop a tailored response.
Cultural Heritage	CH	<ul style="list-style-type: none"> Number of Monuments in the Record of Monuments and Places and areas of archaeological potential which have been recorded or subject to exploration as a result of development Number of archaeological monuments and their settings damaged due to development 	<ul style="list-style-type: none"> To maintain and increase the number of archaeological features recorded and protected No damage occurring to structures or monuments and their settings due to development 	<ul style="list-style-type: none"> Internal monitoring of likely significant environmental effects of grants of permission 	<ul style="list-style-type: none"> Damage to or loss of recorded monuments, or their setting would result in enforcement actions being taken. Damage to or loss of Protected Structures, to be dealt with by enforcement. Possible training courses, facilitated by bodies such as the Heritage council and Irish Georgian Society. Where monitoring reveals visitor or development pressure is causing negative effects on designated archaeological or architectural heritage, the Council will work with Regional Assembly, Fáilte Ireland and the National Monuments Service and other stakeholders, as relevant, to address pressures through additional mitigation
		<ul style="list-style-type: none"> Number and conservation status of structures in RPS Number of buildings conserved and re-used for new development Number of protected structures damaged due to development 	<ul style="list-style-type: none"> To increase the number and maintain the conservation status of Protected Structures Increase investment through Built Heritage Investment and funding streams 	<ul style="list-style-type: none"> Consultation with DHLGH (see Section 10.4). 	
Landscape	L	<ul style="list-style-type: none"> Quality of urban environment and halt in dereliction Building height and design Number of developments permitted that result in avoidable adverse visual impacts on the landscape, especially with regard to landscape and amenity designations included in Land Use Plans, resulting from development which is granted permission under the Plan 	<ul style="list-style-type: none"> Increase in quality of individual applications No developments permitted which result in avoidable adverse visual impacts on the landscape, especially with regard to landscape and amenity designations included in Land Use Plans, resulting from development which is granted permission under the Plan 	<ul style="list-style-type: none"> Internal monitoring of likely significant environmental effects of grants of permission 	<ul style="list-style-type: none"> Enforcement through planning legislation and Derelict Sites Act Adequate input into DM applications from ACO, Archaeologist and HO Where monitoring reveals developments permitted which result in avoidable adverse visual impacts on the landscape, the Council will re-examine Plan provisions and the effectiveness of their implementation

Appendix I Relationship with Legislation and Other Policies, Plans and Programmes

This appendix is not intended to be a full and comprehensive review of EU Directives, the transposing regulations or the regulatory framework for environmental protection and management. The information is not exhaustive and it is recommended to consult the Directive, Regulation, Plan or Programme to become familiar with the full details of each.

Legislation, Plan, etc.	Summary of high-level aim/ purpose/ objective	Summary of lower-level objectives, actions etc.	Relevance to the Plan
European Level			
SEA Directive (2001/42/EC)	<ul style="list-style-type: none"> Contribute to the integration of environmental considerations into the preparation and adoption of plans and programmes with a view to promoting sustainable development. Provide for a high level of protection of the environment by carrying out an environmental assessment of plans and programmes which are likely to have significant effects on the environment. 	<ul style="list-style-type: none"> Carry out an environmental assessment for plans or programmes referred to in Articles 2 to 4 of the Directive. Prepare an environmental report which identifies, describes and evaluates the likely significant effects on the environment of implementing the plan or programme and reasonable alternatives that consider the objectives and the geographical scope of the plan or programme. Consult with relevant authorities, stakeholders and public allowing sufficient time to make a submission. Consult other Member States where the implementation of a plan or programme is likely to have transboundary environmental effects. Inform relevant authorities and stakeholders on the decision to implement the plan or programme. Issue a statement to include requirements detailed in Article 9 of the Directive. Monitor and mitigate significant environmental effects identified by the assessment. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
EIA Directive (2011/92/EU as amended by 2014/52/EU)	<ul style="list-style-type: none"> Requires the assessment of the environmental effects of public and private projects which are likely to have significant effects on the environment. Aims to assess and implement avoidance or mitigation measures to eliminate environmental effects, before consent is given of projects likely to have significant effects on the environment by virtue, inter alia, of their nature, size or location are made subject to a requirement for development consent and an assessment with regard to their effects. Those projects are defined in Article 4. 	<ul style="list-style-type: none"> All projects listed in Annex I are considered as having significant effects on the environment and require an EIA. For projects listed in Annex II, a "screening procedure" is required to determine the effects of projects on the basis of thresholds/criteria or a case-by-case examination. This should take into account Annex III. The environmental impact assessment shall identify, describe and assess in an appropriate manner, in the light of each individual case and in accordance with Articles 4 to 12, the direct and indirect effects of a project on the following factors: human beings, fauna and flora, soil, water, air, climate and the landscape, material assets and the cultural heritage, the interaction between each factor. Consult with relevant authorities, stakeholders and public allowing sufficient time to make a submission before a decision is made. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Habitats Directive (92/43/EEC)	<ul style="list-style-type: none"> Promote the preservation, protection and improvement of the quality of the environment, including the conservation of natural habitats and of wild fauna and flora. Contribute towards ensuring biodiversity through the conservation of natural habitats and of wild fauna and flora. Maintain or restore to favourable conservation status, natural habitats and species of wild fauna and flora of community interest. Promote the maintenance of biodiversity, taking account of economic, social, cultural and regional requirements. 	<ul style="list-style-type: none"> Propose and protect sites of importance to habitats, plant and animal species. Establish a network of European sites hosting the natural habitat types listed in Annex I and habitats of the species listed in Annex II, to enable the natural habitat types and the species' habitats concerned to be maintained or, where appropriate, restored at a favourable conservation status in their natural range. Carry out comprehensive assessment of habitat types and species present. Establish a system of strict protection for the animal species and plant species listed in Annex IV. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Birds Directive (2009/147/EC)	<ul style="list-style-type: none"> Conserve all species of naturally occurring birds in the wild state including their eggs, nests and habitats. Protect, manage and control these species and comply with regulations relating to their exploitation. The species included in Annex I shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. 	<ul style="list-style-type: none"> Preserve, maintain or re-establish a sufficient diversity and area of habitats for all the species of birds referred to in Annex 1. Preserve, maintain and establish biotopes and habitats to include the creation of protected areas (Special Protection Areas). Ensure the upkeep and management in accordance with the ecological needs of habitats inside and outside the protected zones, re-establish destroyed biotopes and creation of biotopes. Measures for regularly occurring migratory species not listed in Annex I is required as regards their breeding, moulting and wintering areas and staging posts along their migration routes. The protection of wetlands and particularly wetlands of international importance. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
EU Nitrates Directive (91/676/EC)	<ul style="list-style-type: none"> Reducing water pollution caused or induced by nitrates from agricultural sources and - preventing further such pollution. 	<p>Ireland's Nitrates Action Programme is designed to prevent pollution of surface waters and ground water from agricultural sources and to protect and improve water quality. Ireland's third NAP came into operation in 2014. Each Member State's NAP must include:</p> <ul style="list-style-type: none"> a limit on the amount of livestock manure applied to the land each year set periods when land spreading is prohibited due to risk 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all

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Legislation, Plan, etc.	Summary of high-level aim/ purpose/ objective	Summary of lower-level objectives, actions etc.	Relevance to the Plan
		<ul style="list-style-type: none"> set capacity levels for the storage of livestock manure 	environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
EU Integrated Pollution Prevention Control Directive (2008/1/EC)	<ul style="list-style-type: none"> The purpose of this Directive is to achieve integrated prevention and control of pollution arising from the activities listed in Annex I. It lays down measures designed to prevent or, where that is not practicable, to reduce emissions in the air, water and land from the abovementioned activities, including measures concerning waste, in order to achieve a high level of protection of the environment taken as a whole, without prejudice to Directive 85/337/EEC and other relevant Community provisions. 	<p>The IPPC Directive is based on several principles:</p> <ul style="list-style-type: none"> an integrated approach best available techniques, flexibility; and public participation 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
EU Plant Protection (products) Directive 2009/127/EC	<ul style="list-style-type: none"> The Directive aims at reducing the risks and impacts of pesticide use on human health and the environment by introducing different targets, tools and measures such as Integrated Pest Management (IPM) or National Action Plans (NAPs). 	<ul style="list-style-type: none"> The Framework Directive applies to pesticides which are plant protection products. Regarding pesticide application equipment already in professional use, the Framework Directive introduces requirements for the inspection and maintenance to be carried out on such equipment. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
EU Renewables Directive (2009/28/EC)	<ul style="list-style-type: none"> The Renewable Energy Directive establishes an overall policy for the production and promotion of energy from renewable sources in the EU. It requires the EU to fulfil at least 20% of its total energy needs with renewables by 2020 – to be achieved through the attainment of individual national targets. All EU countries must also ensure that at least 10% of their transport fuels come from renewable sources by 2020. 	<ul style="list-style-type: none"> The Directive promotes cooperation amongst EU countries (and with countries outside the EU) to help them meet their renewable energy targets. The Directive specifies national renewable energy targets for each country, taking into account its starting point and overall potential for renewables. EU countries set out how they plan to meet these targets and the general course of their renewable energy policy in national renewable energy action plans. Progress towards national targets is measured every two years when EU countries publish national renewable energy progress reports. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Indirect Land Use Change Directive (2012/0288(COD))	<ul style="list-style-type: none"> Article 3(4) of Directive 2009/28/EC of the European Parliament and of the Council (3) requires Member States to ensure that the share of energy from renewable energy sources in all forms of transport in 2020 is at least 10 % of their final energy consumption. The blending of biofuels is one of the methods available for Member States to meet this target and is expected to be the main contributor. Other methods available to meet the target are the reduction of energy consumption, which is imperative because a mandatory percentage target for energy from renewable sources is likely to become increasingly difficult to achieve sustainably if overall demand for energy for transport continues to rise, and the use of electricity from renewable energy sources. 	<ul style="list-style-type: none"> Limit the contribution that conventional biofuels (with a risk of ILUC emissions) make towards attainment of the targets in the Renewable Energy Directive; Improve the greenhouse gas performance of biofuel production processes (reducing associated emissions) by raising the greenhouse gas saving threshold for new installations subject to protecting installations already in operation on 1st July 2014; Encourage a greater market penetration of advanced (low-ILUC) biofuels by allowing such fuels to contribute more to the targets in the Renewable Energy Directive than conventional biofuels; Improve the reporting of greenhouse gas emissions by obliging Member States and fuel suppliers to report the estimated indirect land-use change emissions of biofuels. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Alternative Fuels Infrastructure Directive (2014/94/EU)	<ul style="list-style-type: none"> This Directive establishes a common framework of measures for the deployment of alternative fuels infrastructure in the Union in order to minimise dependence on oil and to mitigate the environmental impact of transport. 	<ul style="list-style-type: none"> This Directive sets out minimum requirements for the building-up of alternative fuels infrastructure, including recharging points for electric vehicles and refuelling points for natural gas (LNG and CNG) and hydrogen, to be implemented by means of Member States' national policy frameworks, as well as common technical specifications for such recharging and refuelling points, and user information requirements. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
EU Energy Efficiency Directive (2012/27/EU)	<ul style="list-style-type: none"> Establishes a set of binding measures to help the EU reach its 20% energy efficiency target by 2020. Under the Directive, all EU countries are required to use energy more efficiently at all stages of the energy chain, from production to final consumption. 	<ul style="list-style-type: none"> Energy distributors or retail energy sales companies have to achieve 1.5% energy savings per year through the implementation of energy efficiency measures EU countries can opt to achieve the same level of savings through other means, such as improving the efficiency of heating systems, installing double glazed windows or insulating roofs 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all

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Legislation, Plan, etc.	Summary of high-level aim/ purpose/ objective	Summary of lower-level objectives, actions etc.	Relevance to the Plan
		<ul style="list-style-type: none"> The public sector in EU countries should purchase energy efficient buildings, products and services Every year, governments in EU countries must carry out energy efficient renovations on at least 3% (by floor area) of the buildings they own and occupy Energy consumers should be empowered to better manage consumption. This includes easy and free access to data on consumption through individual metering National incentives for SMEs to undergo energy audits Large companies will make audits of their energy consumption to help them identify ways to reduce it Monitoring efficiency levels in new energy generation capacities. 	<p>environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>EU Seveso Directive (2012/18/EU)</p>	<ul style="list-style-type: none"> This Directive lays down rules for the prevention of major accidents which involve dangerous substances, and the limitation of their consequences for human health and the environment, with a view to ensuring a high level of protection throughout the Union in a consistent and effective manner. 	<p>The Seveso Directive is well integrated with other EU policies, thus avoiding double regulation or other administrative burden. This includes the following related policy areas:</p> <ul style="list-style-type: none"> Classification, labelling and packaging of chemicals; The Union's Civil Protection Mechanism; The Security Union Agenda including CBRN-E and Protection of critical infrastructure; Policy on environmental liability and on the protection of the environment through criminal law; Safety of offshore oil and gas operations. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>Biodiversity Strategy for 2030 - Bringing nature back into our lives (European Commission, 2020)</p>	<ul style="list-style-type: none"> The EU's biodiversity strategy for 2030 is a comprehensive, ambitious and long-term plan to protect nature and reverse the degradation of ecosystems. The strategy aims to put Europe's biodiversity on a path to recovery by 2030 and contains specific actions and commitments. 	<p>The Strategy contains specific commitments and actions to be delivered by 2030, including:</p> <ul style="list-style-type: none"> Establishing a larger EU-wide network of protected areas on land and at sea, building upon existing Natura 2000 areas, with strict protection for areas of very high biodiversity and climate value. An EU Nature Restoration Plan - a series of concrete commitments and actions to restore degraded ecosystems across the EU by 2030, and manage them sustainably, addressing the key drivers of biodiversity loss. A set of measures to enable the necessary transformative change: setting in motion a new, strengthened governance framework to ensure better implementation and track progress, improving knowledge, financing and investments and better respecting nature in public and business decision-making. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>EU Green Infrastructure Strategy</p>	<p>Aims to create a robust enabling framework in order to promote and facilitate Green Infrastructure (GI) projects.</p>	<ul style="list-style-type: none"> Promoting GI in the main EU policy areas. Supporting EU-level GI projects. Improving access to finance for GI projects. Improving information and promoting innovation. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>UN Kyoto Protocol (2nd Kyoto Period), the Second European Climate Change Programme (ECCP II), Paris climate conference (COP21) 2015 (Paris Agreement)</p>	<p>The UN Kyoto Protocol set of policy measures to reduce greenhouse gas emissions.</p> <p>The Second European Climate Change Programme (ECCP II) aims to identify and develop all the necessary elements of an EU strategy to implement the Kyoto Protocol.</p> <p>At the Paris climate conference (COP21) in December 2015, 195 countries adopted the first-ever universal, legally binding global climate deal. The agreement sets out a global action plan to put the world on track to avoid dangerous climate change by limiting global warming to well below 2°C.</p>	<ul style="list-style-type: none"> The Kyoto Protocol is implemented through the European Climate Change Programme (ECCP II). EU member states implement measures to improve on or complement the specified measures and policies arising from the ECCP. Under COP21, governments agreed to come together every 5 years to set more ambitious targets as required by science; report to each other and the public on how well they are doing to implement their targets; track progress towards the long-term goal through a robust transparency and accountability system. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>EU 2020 Climate and Energy Package</p>	<ul style="list-style-type: none"> Binding legislation which aims to ensure the European Union meets its climate and energy targets for 2020. Aims to achieve a 20% reduction in EU greenhouse gas emissions from 1990 levels. Aims to raise the share of EU energy consumption produced from renewable resources to 20%. Achieve a 20% improvement in the EU's energy efficiency. 	<p>Four pieces of complimentary legislation:</p> <ul style="list-style-type: none"> Reform of the EU Emissions Trading System (EU ETS) to include a cap on emission allowances in addition to existing system of national caps. Member States have agreed national targets for non-EU ETS emissions from countries outside the EU. Meet the national renewable energy targets of 16% for Ireland by 2020. Preparing a legal framework for technologies in carbon capture and storage. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>

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EU 2030 Framework for Climate and Energy	<ul style="list-style-type: none"> A 2030 Framework for climate and energy, including EU-wide targets and policy objectives for the period between 2020 and 2030 that has been agreed by European countries. Targets include a 40% cut in greenhouse gas emissions compared to 1990 levels, at least a 27% share of renewable energy consumption and at least 27% energy savings compared with the business-as-usual scenario. 	<p>To meet the targets, the European Commission has proposed the following policies for 2030:</p> <ul style="list-style-type: none"> A reformed EU emissions trading scheme (ETS). New indicators for the competitiveness and security of the energy system, such as price differences with major trading partners, diversification of supply, and interconnection capacity between EU countries. First ideas for a new governance system based on national plans for competitive, secure, and sustainable energy. These plans will follow a common EU approach. They will ensure stronger investor certainty, greater transparency, enhanced policy coherence and improved coordination across the EU. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
The Clean Air for Europe Directive (2008/50/EC) (EU Air Framework Directive) Fourth Daughter Directive (2004/107/EC)	<ul style="list-style-type: none"> The CAFE Directive merges existing legislation into a single directive (except for the fourth daughter directive). Sets new air quality objectives for PM_{2.5} (fine particles) including the limit value and exposure related objectives. Accounts for the possibility to discount natural sources of pollution when assessing compliance against limit values. Allows the possibility for time extensions of three years (PM₁₀) or up to five years (NO₂, benzene) for complying with limit values, based on conditions and the assessment by the European Commission. The Fourth Daughter Directive lists pollutants, target values and monitoring requirements for the following: arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air. 	<ul style="list-style-type: none"> Sets objectives for ambient air quality designed to avoid, prevent or reduce harmful effects on human health and the environment as a whole. Aims to assess the ambient air quality in Member States on the basis of common methods and criteria. Obtains information on ambient air quality in order to help combat air pollution and nuisance and to monitor long-term trends and improvements resulting from national and community measures. Ensures that such information on ambient air quality is made available to the public. Aims to maintain air quality where it is good and improving it in other cases. Aims to promote increased cooperation between the Member States in reducing air pollution. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Noise Directive (2002/49/EC)	The Noise Directive - Directive 2002/49/EC relating to the assessment and management of environmental noise - is part of an EU strategy setting out to reduce the number of people affected by noise in the longer term and to provide a framework for developing existing Community policy on noise reduction from source.	<p>The Directive requires competent authorities in Member States to:</p> <ul style="list-style-type: none"> Draw up strategic noise maps for major roads, railways, airports and agglomerations, using harmonised noise indicators and use these maps to assess the number of people which may be impacted upon as a result of excessive noise levels; Draw up action plans to reduce noise where necessary and maintain environmental noise quality where it is good; and Inform and consult the public about noise exposure, its effects, and the measures considered to address noise. <p>The Directive does not set any limit value, nor does it prescribe the measures to be used in the action plans, which remain at the discretion of the competent authorities.</p>	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Floods Directive (2007/60/EC)	<ul style="list-style-type: none"> Establishes a framework for the assessment and management of flood risks Reduce adverse consequences for human health, the environment, cultural heritage and economic activity associated with floods in the Community 	<ul style="list-style-type: none"> Assess all water courses and coast lines at risk from flooding through Flood Risk Assessment Prepare flood hazard maps and flood risk maps outlining the extent or potential of flooding and assets and humans at risk in these areas at River Basin District level (Article 3(2) (b)) and areas covered by Article 5(1) and Article 13(1) (b) in accordance with paragraphs 2 and 3. Implement flood risk management plans and take adequate and coordinated measures to reduce flood risk for the areas covered by the Articles listed above. Inform the public and allow the public to participate in planning process. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Water Framework Directive (2000/60/EC)	<ul style="list-style-type: none"> Establish a framework for the protection of water bodies to include inland surface waters, transitional waters, coastal waters and groundwater and their dependent wildlife and habitats. Preserve and prevent the deterioration of water status and where necessary improve and maintain "good status" of water bodies. Promote sustainable water usage. The Water Framework Directive repealed the following Directives: <ul style="list-style-type: none"> The Drinking Water Abstraction Directive Sampling Drinking Water Directive Exchange of Information on Quality of Surface Freshwater Directive Shellfish Directive Freshwater Fish Directive Groundwater (Dangerous Substances) Directive Dangerous Substances Directive 	<ul style="list-style-type: none"> Protect, enhance and restore all water bodies and meet the environmental objectives outlined in Article 4 of the Directive. Achieve "good status" for all waters. Manage water bodies based on identifying and establishing river basin districts. Involve the public and streamline legislation. Prepare and implement a River Basin Management Plan for each river basin districts identified and a Register of Protected Areas. Establish a programme of monitoring for surface water status, groundwater status and protected areas. Recover costs for water services. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Groundwater Directive (2006/118/EC)	<ul style="list-style-type: none"> Protect, control and conserve groundwater. Prevent the deterioration of the status of all bodies of groundwater. Implements measures to prevent and control groundwater pollution, including criteria for assessing good groundwater chemical status and criteria for the identification of significant and sustained upward trends 	<ul style="list-style-type: none"> Meet minimum groundwater standards listed in Annex 1 of Directive. Meet threshold values adopted by national legislation for the pollutants, groups of pollutants and indicators of pollution which have been identified as contributing to the characterisation of bodies or groups of bodies of groundwater as being at risk, also taking into account Part B of Annex II. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all

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	and for the definition of starting points for trend reversals.		environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Drinking Water Directive (98/83/EC)	<ul style="list-style-type: none"> Improve and maintain the quality of water intended for human consumption. Protect human health from the adverse effects of any contamination of water intended for human consumption by ensuring that it is wholesome and clean. 	<ul style="list-style-type: none"> Set values applicable to water intended for human consumption for the parameters set out in Annex I. Set values for additional parameters not included in Annex I, where the protection of human health within national territory or part of it so requires. The values set should, as a minimum, satisfy the requirements of Article 4(1) (a). Implement all measures necessary to ensure that regular monitoring of the quality of water intended for human consumption is carried out, in order to check that the water available to consumers meets the requirements of this Directive and in particular the parametric values set in accordance with Article 5. Ensure that any failure to meet the parametric values set in accordance with Article 5 is immediately investigated in order to identify the cause. Ensure that the necessary remedial action is taken as soon as possible to restore its quality and shall give priority to their enforcement action. Undertake remedial action to restore the quality of the water where necessary to protect human health. Notify consumers when remedial action is being undertaken except where the competent authorities consider the non-compliance with the parametric value to be trivial. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Urban Waste Water Treatment Directive (91/271/EEC)	<ul style="list-style-type: none"> This Directive concerns the collection, treatment and discharge of urban waste water and the treatment and discharge of waste water from certain industrial sectors. The objective of the Directive is to protect the environment from the adverse effects of waste water discharges. 	<ul style="list-style-type: none"> Urban waste water entering collecting systems shall before discharge, be subject to secondary treatment. Annex II requires the designation of areas sensitive to eutrophication which receive water discharges. Establishes minimum requirements for urban waste water collection and treatment systems in specified agglomerations to include special requirements for sensitive areas and certain industrial sectors. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Environmental Liability Directive (2004/35/EC) as amended by Directive 2006/21/EC, Directive 2009/31/EC and Directive 2013/30/EU	<ul style="list-style-type: none"> Establish a framework of environmental liability based on the 'polluter-pays' principle, to prevent and remedy environmental damage. 	<ul style="list-style-type: none"> Relates to environmental damage caused by any of the occupational activities listed in Annex III, and to any imminent threat of such damage occurring by reason of any of those activities; damage to protected species and natural habitats caused by any occupational activities other than those listed in Annex III, and to any imminent threat of such damage occurring by reason of any of those activities, whenever the operator has been at fault or negligent. Where environmental damage has not yet occurred but there is an imminent threat of such damage occurring, the operator shall, without delay, take the necessary preventive measures. Where environmental damage has occurred the operator shall, without delay, inform the competent authority of all relevant aspects of the situation and take all practicable steps to immediately control, contain, remove or otherwise manage the relevant contaminants and/or any other damage factors in order to limit or to prevent further environmental damage and adverse effects on human health or further impairment of services and the necessary remedial measures, in accordance with Article 7. The operator shall bear the costs for the preventive and remedial actions taken pursuant to this Directive. The competent authority shall be entitled to initiate cost recovery proceedings against the operator. The operator may be required to provide financial security guarantees to ensure their responsibilities under the directive are met. The Environmental Liability Directive has been amended through a number of Directives. Implementation of the Environmental Liability Directive is contributed towards by a Multi-Annual Work Programme (MAWP) 'Making the Environmental Liability Directive more fit for purpose' that is updated annually to changing developments, growing knowledge and new needs. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.

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European Convention on the Protection of the Archaeological Heritage (Valletta 1992)	<ul style="list-style-type: none"> The aim of this (revised) Convention is to protect the archaeological heritage as a source of the European collective memory and as an instrument for historical and scientific study. 	<p>The Valletta Convention makes the conservation and enhancement of the archaeological heritage one of the goals of urban and regional planning policies. The Convention sets guidelines for the funding of excavation and research work and publication of research findings. It also deals with public access, in particular to archaeological sites, and educational actions to be undertaken to develop public awareness of the value of the archaeological heritage. It also constitutes an institutional framework for pan-European co-operation on the archaeological heritage, entailing a systematic exchange of experience and experts among the various States.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Convention of the Protection of the Architectural Heritage of Europe (Granada 1995)	<ul style="list-style-type: none"> The main purpose of the Convention is to reinforce and promote policies for the conservation and enhancement of Europe's heritage. It also affirms the need for European solidarity with regard to heritage conservation and is designed to foster practical co-operation among the Parties. It establishes the principles of "European co-ordination of conservation policies" including consultations regarding the thrust of the policies to be implemented. 	<ul style="list-style-type: none"> The reinforcement and promotion of policies for protecting and enhancing the heritage within the territories of the parties. The affirmation of European solidarity with regard to the protection of the heritage and the fostering of practical co-operation between states and regions. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Council of Europe Framework Convention on the Value of Cultural Heritage for Society (Faro 2005)	<ul style="list-style-type: none"> Cultural heritage is a group of resources inherited from the past which people identify, independently of ownership, as a reflection and expression of their constantly evolving values, beliefs, knowledge and traditions. It includes all aspects of the environment resulting from the interaction between people and places through time. A heritage community consists of people who value specific aspects of cultural heritage which they wish, within the framework of public action, to sustain and transmit to future generations. 	<ul style="list-style-type: none"> Recognise that rights relating to cultural heritage are inherent in the right to participate in cultural life, as defined in the Universal Declaration of Human Rights. Recognise individual and collective responsibility towards cultural heritage. Emphasise that the conservation of cultural heritage and its sustainable use have human development and quality of life as their goal. Take the necessary steps to apply the provisions of this Convention concerning the role of cultural heritage in the construction of a peaceful and democratic society. Greater synergy of competencies among all the public, institutional and private actors concerned. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
European Landscape Convention 2000	<ul style="list-style-type: none"> The developments in agriculture, forestry, industrial and mineral production techniques, together with the practices followed in town and country planning, transport, networks, tourism and recreation, and at a more general level, changes in the world economy, have in many cases accelerated the transformation of landscapes. The Convention expresses a concern to achieve sustainable development based on a balanced and harmonious relationship between social needs, economic activity and the environment. It aims to respond to the public's wish to enjoy high quality landscapes. 	<ul style="list-style-type: none"> Promote protection, management and planning of landscapes. Organise European co-operation on landscape issues. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
The Seventh Environmental Action Programme (EAP) of the European Community (2013-2020)	<p>It identifies three key objectives:</p> <ul style="list-style-type: none"> to protect, conserve and enhance the Union's natural capital to turn the Union into a resource-efficient, green, and competitive low-carbon economy to safeguard the Union's citizens from environment-related pressures and risks to health and wellbeing 	<p>Four so called "enablers" will help Europe deliver on these objectives (goals):</p> <ul style="list-style-type: none"> Better implementation of legislation. Better information by improving the knowledge base. More and wiser investment for environment and climate policy. Full integration of environmental requirements and considerations into other policies. <p>Two additional horizontal priority objectives complete the programme:</p> <ul style="list-style-type: none"> To make the Union's cities more sustainable. To help the Union address international environmental and climate challenges more effectively. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Bern Convention (Convention on the Conservation of European Wildlife and Natural Habitats)	<p>The convention has three main aims:</p> <ul style="list-style-type: none"> to conserve wild flora and fauna and their natural habitats to promote cooperation between states to give particular attention to endangered and vulnerable species including endangered and vulnerable migratory species 	<p>The Parties under the convention recognise the intrinsic value of nature, which needs to be preserved and passed to future generations, they also:</p> <ul style="list-style-type: none"> Seek to ensure the conservation of nature in their countries, paying particular attention to planning and development policies and pollution control. Look at implementing the Bern Convention in central Eastern Europe and the Caucasus. Take account of the potential impact on natural heritage by other policies. Promote education and information of the public, ensuring the need to conserve species is understood and acted upon. Develop an extensive number of species action plans, codes of conducts, and guidelines, at their own initiative or in co-operation with other organisations. Created the Emerald Network, an ecological network made up of Areas of Special Conservation Interest. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>

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Bali Road Map (2007)	<p>The overall goals of the project are twofold:</p> <ul style="list-style-type: none"> To increase national capacity to co-ordinate ministerial views, participate in the UNFCCC process, and negotiate positions within the timeframe of the Bali Action Plan; and To assess investment and financial flows to address climate change for up to three key sectors and/or economic activities. 	<p>The Bali Action Plan is centred on four main building Blocks:</p> <ul style="list-style-type: none"> mitigation adaptation technology financing 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Cancun Agreements (2010)	<p>Set of decisions taken at the COP 16 Conference in Cancun in 2010 which addresses a series of key issues in the fight against climate change. Cancun Agreements' main objectives cover:</p> <ul style="list-style-type: none"> Mitigation Transparency of actions Technology Finance Adaptation Forests Capacity building 	<p>Among the most prominent agreements is the establishment of a Green Climate Fund to transfer money from the developed to developing world to tackle the impacts of climate change.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Doha Climate Gateway (2012)	<p>Set of decisions taken at the COP 18 meeting in Doha in 2012 which pave the way for a new agreement in Paris in 2015.</p>	<ul style="list-style-type: none"> Set out a timetable to adopt a universal climate agreement by 2015 (to come into effect in 2020); Complete the work under Bali Action Plan and to focus on new completing new targets; Strengthen the aim to cut greenhouse gases and help vulnerable countries to adapt; Amend Kyoto Protocol to include a new commitment period for cutting down the greenhouse gases emissions; and Provide the financial and technology support and new institutions to allow clean energy investment and sustainable growth in developing countries. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
EU Common Agricultural Policy	<ul style="list-style-type: none"> To improve agricultural productivity, so that consumers have a stable supply of affordable food; and To ensure that EU farmers can make a reasonable living. 	<ul style="list-style-type: none"> ensuring viable food production that will contribute to feeding the world's population, which is expected to rise considerably in the future; Climate change and sustainable management of natural resources; Looking after the countryside across the EU and keeping the rural economy alive. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
EU REACH Regulation (EC 1907/2006)	<ul style="list-style-type: none"> Aims to improve the protection of human health and the environment through the better and earlier identification of the intrinsic properties of chemical substances. 	<p>The aims are achieved by applying REACH, namely:</p> <ul style="list-style-type: none"> Registration, Evaluation, Authorisation; and Restriction of chemicals. <p>REACH also aims to enhance innovation and competitiveness of the EU chemicals industry.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Stockholm Convention	<ul style="list-style-type: none"> The objective of the Stockholm Convention is to protect human health and the environment from persistent organic pollutants. 	<ul style="list-style-type: none"> Prohibit and/or eliminate the production and use, as well as the import and export, of the intentionally produced POPs that are listed in Annex A to the Convention Restrict the production and use, as well as the import and export, of the intentionally produced POPs that are listed in Annex B to the Convention Reduce or eliminate releases from unintentionally produced POPs that are listed in Annex C to the Convention Ensure that stockpiles and wastes consisting of, containing or contaminated with POPs are managed safely and in an environmentally sound manner Other provisions of the Convention relate to the development of implementation plans, information exchange, public information, awareness and education, research, development and monitoring, technical assistance, financial resources and mechanisms, reporting, effectiveness evaluation and non-compliance 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>

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Ramsar Convention	The Convention's mission is "the conservation and wise use of all wetlands through local and national actions and international cooperation, as a contribution towards achieving sustainable development throughout the world".	Under the "three pillars" of the Convention, the Contracting Parties commit to: <ul style="list-style-type: none"> • Work towards the wise use of all their wetlands; • Designate suitable wetlands for the list of Wetlands of International Importance (the "Ramsar List") and ensure their effective management; • Cooperate internationally on transboundary wetlands, shared wetland systems and shared species. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
European 2020 Strategy for Growth	Europe 2020 sets out a vision of Europe's social market economy for the 21st century and puts forward three mutually reinforcing priorities: <ul style="list-style-type: none"> • Smart growth: developing an economy based on knowledge and innovation; • Sustainable growth: promoting a more resource efficient, greener and more competitive economy; • Inclusive growth: fostering a high-employment economy delivering social and territorial cohesion. 	In order to reach these priorities, the Commission proposes five quantitative targets to fulfil by 2020: <ol style="list-style-type: none"> 1. 75 % of the population aged 20-64 should be employed; 2. 3% of the EU's GDP should be invested in R&D; 3. the "20/20/20" climate/energy targets should be met (including an increase to 30% of emissions reduction if the conditions are right); 4. the share of early school leavers should be under 10% and at least 40% of the younger generation should have a tertiary degree; 5. 20 million less people should be at risk of poverty. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Level			
Ireland 2040 - Our Plan, the National Planning Framework and the National Development Plan (2021-2030)	The National Planning Framework is the Government's high-level strategic plan for shaping the future growth and development of to the year 2040. It is a framework to guide public and private investment, to create and promote opportunities for people, and to protect and enhance the environment - from villages to cities, and everything around and in between. As part of Project Ireland 2040 the National Development Plan sets out the Government's over-arching investment strategy and budget for the period 2021-2030. It is an ambitious plan that balances the significant demand for public investment across all sectors and regions of Ireland with a major focus on improving the delivery of infrastructure projects to ensure speed of delivery and value for money	National Strategic Outcomes as follows: <ol style="list-style-type: none"> 1. Compact Growth 2. Enhanced Regional Accessibility 3. Strengthened Rural Economies and Communities 4. Sustainable Mobility 5. A Strong Economy, supported by Enterprise, Innovation and Skills 6. High-Quality International Connectivity 7. Enhanced Amenity and Heritage 8. Transition to a Low-Carbon and Climate-Resilient Society 9. Sustainable Management of Water and other Environmental Resources 10. Access to Quality Childcare, Education and Health Services 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Investment Framework for Transport in Ireland [in preparation]	The high-level strategic framework for prioritising future investment in the land transport network. This new framework is the Department of Transport's contribution to Project Ireland 2040, Government's long-term strategy for accommodating population growth in a sustainable manner and making Ireland a better country for all of its people. It has been developed to ensure that our transport sectoral strategy is underpinned by and supports the achievement of the spatial objectives and National Strategic Objectives set out in the National Planning Framework.	The draft framework establishes high-level investment priorities to efficiently and effectively address key transport challenges identified by the background analysis and to ensure that transport investment is aligned with and supports Government's overarching spatial and climate change objectives, as articulated in the National Planning Framework and Climate Action Plan.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Planning and Development Act 2000 (as amended)	The core principle objectives of this Act are to amend the Planning Acts of 2000 – 2009 with specific regard given to supporting economic renewal and sustainable development.	<ul style="list-style-type: none"> • Development, with certain exceptions, is subject to development control under the Planning Acts and the local authorities grant or refuse planning permission for development, including ones within protected areas. • There are, however, a range of exemptions from the planning system. Use of land for agriculture, peat extraction and afforestation, subject to certain thresholds, is generally exempt from the requirement to obtain planning permission. • Additionally, Environmental Impact Assessment (EIA) is required for a range of classes and large-scale projects. • Under planning legislation, Development Plans must include mandatory objectives for the conservation of the natural heritage and for the conservation of European sites and any other sites which may be prescribed. There are also discretionary powers to set objectives for the conservation of a variety of other elements of the natural heritage. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Climate Action Plan 2023	The National Climate Action Plan 2023 provides a detailed plan for taking decisive action to achieve a 51% reduction in overall greenhouse gas emissions by 2030 and setting Ireland on a path to reach net-zero emissions by no later than 2050, as committed to in the Programme for Government and set out in the Climate Act 2021.	The Plan lists the actions needed to deliver on Ireland's climate targets and sets indicative ranges of emissions reductions for each sector of the economy. It will be updated periodically to ensure alignment with Ireland's legally binding economy-wide carbon budgets and sectoral ceilings.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. –

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European Communities (Environmental Assessment of Certain Plans and Programmes Regulations 2004 (SI No. 435 of 2004), as amended by SI No. 200 of 2011	<ul style="list-style-type: none"> The purpose of these Regulations is to transpose into Irish law Directive 2001/42/EC of 27 June 2001 (O.J. No. L 197, 21 July 2001) on the assessment of the effects of certain plans and programmes on the environment — commonly known as the Strategic Environmental Assessment (SEA) Directive. 	<ul style="list-style-type: none"> The Regulations cover plans and programmes in all of the sectors listed in article 3(2) of the Directive except land-use planning. These Regulations also amend certain provisions of the Planning and Development Act 2000 to provide the statutory basis for the transposition of the Directive in respect of land-use planning. Transposition in respect of the land-use planning sector is contained in the Planning and Development (Strategic Environmental Assessment) Regulations 2004 (S.I. No. 436 of 2004). 	<p>the achievement of the objectives of the regulatory framework for environmental protection and management.</p> <p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
European Communities (Birds and Natural Habitats) Regulations 2011 (SI No. 477 of 2011, as amended)	<ul style="list-style-type: none"> These Regulations provide a new for the implementation in Ireland of Council Directive 92/43/EEC on habitats and protection of wild fauna and flora (as amended) and for the implementation of Directive 2009/147/EC of the European Parliament and of the Council on the protection of wild birds. 	<ul style="list-style-type: none"> They provide, among other things, for: the appointment and functions of authorized officers; identification, classification and other procedures relative to the designation of Community sites. The Regulations have been prepared to address several judgments of the CJEU against Ireland, notably cases C-418/04 and C-183/05, in respect of failure to transpose elements of the Birds Directive and the Habitats Directive into Irish law. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Waste Management Act 1996, as amended	<ul style="list-style-type: none"> To make provision in relation to the prevention, management and control of waste; to give effect to provisions of certain acts adopted by institutions of the European communities in respect of those matters; to amend the Environmental Protection Agency Act, 1992, and to repeal certain enactments and to provide for related matters. 	<ul style="list-style-type: none"> The Waste Management Act contains a number of key legal obligations, including requirements for waste management planning, waste collection and movement, the authorisation of waste facilities, measures to reduce the production of waste and/or promote its recovery. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
European Communities Environmental Objectives (FPM) Regulations 2009 (SI No. 296 of 2009)	<ul style="list-style-type: none"> The purpose of these Regulations is to support the achievement of favourable conservation status for freshwater pearl mussels 	<ul style="list-style-type: none"> Set environmental quality objectives for the habitats of the freshwater pearl mussel populations named in the First Schedule to these Regulations that are within the boundaries of a site notified in a candidate list of European sites, or designated as a Special Area of Conservation, under the European Communities (Natural Habitats) Regulations, 1997 (S.I. No. 94/1997). Require the production of sub-basin management plans with programmes of measures to achieve these objectives. Set out the duties of public authorities in respect of the sub-basin management plans and programmes of measure. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
European Communities Environmental Objectives (Groundwater) Regulations 2010 (SI No. 9 of 2010), as amended (SI No. 366 of 2016)	<ul style="list-style-type: none"> To amend the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010) to make further provision to implement Commission Directive 2014/80/EU of 20 June 2014 amending Annex II to Directive 2006/118/EC of the European Parliament and of the Council on the protection of groundwater against pollution and deterioration. 	<p>The substances and threshold values set out in Schedule 5 to S.I. No. 9 of 2010 have been reviewed and amended where necessary, based on existing monitoring information and international guidelines on appropriate threshold values.</p> <ul style="list-style-type: none"> Part A of Schedule 6 has been amended to include changes to the rules governing the determination of background levels for the purposes of establishing threshold values for groundwater pollutants and indicators of pollution. Part B of Schedule 6 has been amended to include nitrites and phosphorus (total) / phosphates among the minimum list of pollutants and their indicators which the Environmental Protection Agency (EPA) must consider when establishing threshold values. Part C of Schedule 6 amends the information to be provided to the Minister by the EPA with regard to the pollutants and their indicators for which threshold values have been established. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2014 (SI No. 31 of 2014)	<p>These Regulations, which give effect to Ireland's 3rd Nitrates Action Programme, provide statutory support for good agricultural practice to protect waters against pollution from agricultural sources</p>	<p>The Regulations include measures such as:</p> <ul style="list-style-type: none"> Periods when land application of fertilisers is prohibited Limits on the land application of fertilisers Storage requirements for livestock manure; and Monitoring of the effectiveness of the measures in terms of agricultural practice and impact on water quality. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination</p>

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			with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Climate Action and Low Carbon Development Act 2015 (as amended)	An Act to provide for the approval of plans by the Government in relation to climate change for the purpose of pursuing the transition to a low carbon, climate resilient and environmentally sustainable economy.	When considering a plan or framework, for approval, the Government shall endeavour to achieve the national transition objective within the period to which the objective relates and shall, in endeavouring to achieve that objective, ensure that such objective is achieved by the implementation of measures that are cost effective and shall, for that purpose, have regard to: <ul style="list-style-type: none"> • The ultimate objective specified in Article 2 of the United Nations Framework Convention on Climate Change done at New York on 9 May 1992 and any mitigation commitment entered into by the European Union in response or otherwise in relation to that objective, • The policy of the Government on climate change, • Climate justice, • Any existing obligation of the State under the law of the European Union or any international agreement referred to in section 2; and • The most recent national greenhouse gas emissions inventory and projection of future greenhouse gas emissions, prepared by the Agency. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
The Sustainable Development Goals National Implementation Plan (2018 – 2020)	<ul style="list-style-type: none"> • National Implementation Plan 2018 - 2020 is in direct response to the 2030 Agenda for Sustainable Development and provides a whole-of-government approach to implement the 17 Sustainable Development Goals (SDGs). • The Plan provides an 'SDG Matrix' which identifies the responsible Government Departments for each of the 169 targets. It also includes an 'SDG Policy Map' indicating the relevant national policies for each of the targets. 	The Plan identifies four strategic priorities to guide implementation: <ul style="list-style-type: none"> • Awareness: raise public awareness of the SDGs; • Participation: provide stakeholders opportunities to engage and contribute to follow-up and review processes, and further develop national implementation of the Goals; • Support: encourage and support efforts of communities and organisations to contribute towards meeting the SDGs, and foster public participation; and • Policy alignment: develop alignment of national policy with the SDGs and identify opportunities for policy coherence. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Infrastructure and Capital Investment Plan (2016-2021)	<ul style="list-style-type: none"> • €27 billion multi-annual Exchequer Capital Investment Plan, which is supported by a programme of capital investment in the wider State sector, and which over the period 2016 to 2021 will help to lay the foundations for continued growth in Ireland. 	<ul style="list-style-type: none"> • This Capital Plan reflects the Government's commitment to supporting strong and sustainable economic growth and raising welfare and living standards for all. • It includes allocations for new projects across a number of key areas and funding to ensure that the present stock of national infrastructure is refreshed and maintained. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
European Union (Birds and Natural Habitats) (Sea-Fisheries) Regulations 2013 (S.I. 290 of 2013)	These regulations have been drafted to implement the responsibilities of the Minister for Agriculture Food and the Marine in relation to sea fisheries in Natura 2000 sites, in accordance with the Habitats and Birds Directives as transposed by the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. 477 of 2011).	<ul style="list-style-type: none"> • Regulation 3 provides for the submission of a Fisheries Natura Plan in relation to planned fisheries; • Regulation 4 provides for a screening of a Fisheries Natura Plan to determine whether or not an appropriate assessment is required; • Regulation 5 provides for an appropriate assessment of a Fisheries Natura Plan and also provides for public and statutory consultation; • Regulation 6 provides for the Minister to make a determination to adopt a Fisheries Natura Plan. The Minister may amend, withdraw or revoke a plan; • Regulation 7 provides for publication of the adopted Fisheries Natura Plan; • Regulation 8 provides for a Risk Assessment of unplanned fisheries and also provides for public and statutory consultation on the assessment; • Regulation 9 provides for the issue of a Natura Declaration to prohibit, restrict including restricting by permit, control, etc. of sea fishing activities; • Regulation 10 provides for Natura Permits to be issued where required by Natura Declarations; and • Regulations 11 to 31 deal with functions of authorised officers and related matters, offences, etc. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Ireland's National Renewable Energy Action Plan 2010 (Irish Government submission to the European Commission)	<ul style="list-style-type: none"> • The National Renewable Energy Action Plan (NREAP) sets out the Government's strategic approach and concrete measures to deliver on Ireland's 16% target under Directive 2009/28/EC. 	<ul style="list-style-type: none"> • The NREAP sets out the Member State's national targets for the share of energy from renewable sources to be consumed in transport, electricity and heating and cooling in 2020, and demonstrates how the Member State will meet its overall national target established under the Directive. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. –

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Strategy for Renewable Energy (2012-2020)	<ul style="list-style-type: none"> The Government's overarching strategic objective is to make renewable energy an increasingly significant component of Ireland's energy supply by 2020, so that at a minimum it will achieve its legally binding 2020 target in the most cost-efficient manner for consumers. Of critical importance is the role which the renewable energy sector plays in job creation and economic activity as part of the Government's action plan for jobs. 	<p>This document sets out five strategic goals, reflecting the key dimensions of the renewable energy challenge to 2020:</p> <ul style="list-style-type: none"> Increasing on and offshore wind, Building a sustainable bioenergy sector, Fostering R&D in renewables such as wave & tidal, Growing sustainable transport; and Building out robust and efficient networks. 	<p>the achievement of the objectives of the regulatory framework for environmental protection and management.</p> <p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
National Climate Mitigation Plan 2017	<ul style="list-style-type: none"> The Plan represents an initial step to set Ireland on a pathway to achieve the deep decarbonisation required in Ireland by mid-century in line with the Government's policy objectives. 	<p>The National Mitigation Plan focuses on the following issues:</p> <ul style="list-style-type: none"> Climate Action Policy Framework Decarbonising Electricity Generation Decarbonising the Built Environment Decarbonising Transport An Approach to Carbon Neutrality for Agriculture, Forest and Land Use Sectors 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
National Clean Air Strategy [in preparation]	<ul style="list-style-type: none"> The Clean Air Strategy will provide the strategic policy framework necessary to identify and promote integrated measures across government policy that are required to reduce air pollution and promote cleaner air while delivering on wider national objectives. 	<ul style="list-style-type: none"> Having a National Strategy will provide a policy framework by which Ireland can develop the necessary policies and measures to comply with new and emerging EU legislation. The Strategy should also help tackle climate change. The Strategy will consider a wider range of national policies that are relevant to clean air policy such as transport, energy, home heating and agriculture. In any discussion relating to clean air policy, the issue of people's health is paramount and this will be a strong theme of the Strategy. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
EirGrid's Grid25 Strategy and associated Grid25 Implementation Programme 2017-2022	<ul style="list-style-type: none"> EirGrid's mission is to develop, maintain and operate a safe, secure, reliable, economical and efficient transmission system for Ireland; <i>"Our vision is of a grid developed to match future needs, so it can safely and reliably carry power all over the country to the major towns and cities and onwards to every home, farm and business where the electricity is consumed and so it can meet the needs of consumers and generators in a sustainable way."</i> 	<ul style="list-style-type: none"> Grid25, EirGrid's roadmap to uprate the electricity transmission grid by 2025, continues to be implemented so as to increase the capacity of the grid, to satisfy future demand, and to help Ireland meet its target of 40 per cent of electricity from renewable energy by 2020. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Strategy for the Future Development of National and Regional Greenways (2018)	<ul style="list-style-type: none"> The objective of this Strategy is to assist in the strategic development of nationally and regionally significant Greenways in appropriate locations constructed to an appropriate standard in order to deliver a quality experience for all Greenways users. It also aims to increase the number and geographical spread of Greenways of scale and quality around the country over the next 10 years with a consequent significant increase in the number of people using Greenways as a visitor experience and as a recreational amenity. 	<ul style="list-style-type: none"> A Strategic Greenway network of national and regional routes, with a number of high-capacity flagship routes that can be extended and/or link with local Greenways and other cycling and walking infrastructure; Greenways of scale and appropriate standard that have significant potential to deliver an increase in activity tourism to Ireland and are regularly used by overseas visitors, domestic visitors and locals thereby contributing to a healthier society through increased physical activity; Greenways that provide a substantially segregated off road experience linking places of interest, recreation and leisure in areas with beautiful scenery of different types with plenty to see and do; and Greenways that provide opportunities for the development of local businesses and economies, and Greenways that are developed with all relevant stakeholders in line with an agreed code of practice. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
National Water Resources Plan [in preparation]	<ul style="list-style-type: none"> The NWRP is a plan on how to provide a safe, secure and reliable water supply to customers for the next 25 years, without causing adverse impact on the environment. The objective of the NWRP is to set out how we intend to maintain the supply and demand for drinking water over the short, medium and long term whilst minimising the impact on the environment. 	<p>The key objectives of the plan are to:</p> <ul style="list-style-type: none"> Identify areas where there are current and future potential water supply shortfalls, taking into account normal and extreme weather conditions Assess the current and future water demand from homes, businesses, farms, and industry Consider the impacts of climate change on Ireland's water resources 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and</p>

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	<p>The preparation of the NWRP has been divided into two phases, the combination of which will become the final NWRP. The NWRP Framework Plan (Phase 1) has now been adopted. Phase 2 of the NWRP (four Regional Water Resources Plans), currently in preparation, will address the needs across the 535 individual water supplies and identify the solutions to address these needs.</p>	<ul style="list-style-type: none"> • Develop a drought plan advising measures to be taken before and during drought events • Develop a plan detailing how we deal with the material that is produced as a result of treating drinking water • Assess the water resources available at a national level including lakes, rivers and groundwater 	<p>cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>National Strategic Plan for Aquaculture Development (2014-2020)</p>	<p>Vision: <i>"Aquaculture in RC is economically, socially and ecologically sustainable, with a developed infrastructure, strong human potentials and an organized market. The consumption of aquaculture products is equal or above EU average, while the technological development of the sector is among the best in the EU."</i></p>	<p>General development and growth objectives of marine and freshwater aquaculture (2014 – 2020):</p> <ul style="list-style-type: none"> • Strengthen the social, business and administrative environment for aquaculture development • Increase in the total production to 24,050 tonnes while adhering to the principles of economic, social and ecological sustainability • Improvement of the perception and increase in the national consumption of National products 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>Construction 2020, A Strategy for a Renewed Construction Sector</p>	<ul style="list-style-type: none"> • Construction 2020 sets out a package of measures agreed by the Government and is aimed at stimulating activity in the building industry. • The Strategy aims both to increase the capacity of the sector to create and maintain jobs, and to deliver a sustainable sector, operating at an appropriate level. It seeks to learn the lessons of the past and to ensure that the right structures and mechanisms are in place so that they are not repeated. 	<p>This Strategy therefore addresses issues including:</p> <ul style="list-style-type: none"> • A strategic approach to the provision of housing, based on real and measured needs, with mechanisms in place to detect and act when things are going wrong; • Continuing improvement of the planning process, striking the right balance between current and future requirements; • The availability of financing for viable and worthwhile projects; • Access to mortgage finance on reasonable and sustainable terms; • Ensuring we have the tools we need to monitor and regulate the sector in a way that underpins public confidence and worker safety; • Ensuring a fit for purpose sector supported by a highly skilled workforce achieving high quality and standards; and • Ensuring opportunities are provided to unemployed former construction workers to contribute to the recovery of the sector. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>Sustainable Development: A Strategy for Ireland (1997)</p>	<ul style="list-style-type: none"> • The overall aim of this Strategy is to ensure that economy and society in Ireland can develop to their full potential within a well-protected environment, without compromising the quality of that environment, and with responsibility towards present and future generations and the wider international community. 	<ul style="list-style-type: none"> • The Strategy addresses all areas of Government policy, and of economic and societal activity, which impact on the environment. It seeks to re-orientate policies as necessary to ensure that the strong growth Ireland enjoys and seeks to maintain will be environmentally sustainable. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>National Landscape Strategy for Ireland 2015-2025 and National Landscape Character Assessment (pending preparation)</p>	<ul style="list-style-type: none"> • The National Landscape Strategy will be used to ensure compliance with the European Landscape Convention and to establish principles for protecting and enhancing the landscape while positively managing its change. It will provide a high-level policy framework to achieve balance between the protection, management and planning of the landscape by way of supporting actions. • Landscape Strategy Vision: <i>"Our landscape reflects and embodies our cultural values and our shared natural heritage and contributes to the well-being of our society, environment and economy. We have an obligation to ourselves and to future generations to promote its sustainable protection, management and planning."</i> 	<p>The objectives of the National Landscape Strategy are to:</p> <ul style="list-style-type: none"> • Implement the European Landscape Convention by integrating landscape into the approach to sustainable development; • Establish and embed a public process of gathering, sharing and interpreting scientific, technical and cultural information in order to carry out evidence-based identification and description of the character, resources and processes of the landscape; • Provide a policy framework, which will put in place measures at national, sectoral - including agriculture, tourism, energy, transport and marine - and local level, together with civil society, to protect, manage and properly plan through high quality design for the sustainable stewardship of the landscape; • Ensure that we take advantage of opportunities to implement policies relating to landscape use that are complementary and mutually reinforcing and that conflicting policy objectives are avoided in as far as possible. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>National Hazardous Waste Management Plan (EPA) 2014-2020 and new National Hazardous Waste Management Plan 2021-2027</p>	<p>This Plan sets out the priorities to be pursued over the next six years and beyond to improve the management of hazardous waste, taking into account the progress made since the previous plan and the waste policy and legislative changes that have occurred since the previous plan was published.</p> <p>Section 26 of the Waste Management Act 1996 as amended, sets out the overarching objectives for the National Hazardous Waste Management Plan. In this context, the following objectives are included as priorities for the revised Plan period:</p> <ul style="list-style-type: none"> • To prevent and reduce the generation of hazardous waste by industry and society generally; • To maximise the collection of hazardous waste with a view to reducing 	<p>The Environmental Protection Agency has a statutory responsibility to prepare National Hazardous Waste Management Plans. The National Hazardous Waste Management Plan for the period 2014-2020 was the third such national plan and had 27 recommendations with the following objectives: to prevent and reduce the generation of hazardous waste; to maximise the collection of hazardous waste; to strive for increased self-sufficiency in the management of hazardous waste and to minimise hazardous waste export; and to minimise the environmental, health, social and economic impacts of hazardous waste generation and management.</p> <p>The Environmental Protection Agency has prepared a revised National Hazardous Waste Management Plan for the period 2021 to 2027.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>

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	<ul style="list-style-type: none"> the environmental and health impacts of any unregulated waste; To strive for increased self-sufficiency in the management of hazardous waste and to minimise hazardous waste export; To minimise the environmental, health, social and economic impacts of hazardous waste generation and management. 		
Ministerial Guidelines such as Sustainable Rural Housing Guidelines and Flood Risk Management Guidelines	<ul style="list-style-type: none"> The Department produces a range of guidelines designed to help planning authorities, An Bord Pleanála, developers and the general public and cover a wide range of issues amongst others, architectural heritage, child care facilities, landscape, quarries and residential density. 	<ul style="list-style-type: none"> The Minister issues statutory guidelines under Section 28 of the Act which planning authorities and An Bord Pleanála are obliged to have regard to in the performance of their planning functions. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
HSE Healthy Ireland Framework for Improved Health and Wellbeing 2013-2025	<ul style="list-style-type: none"> The vision is: <i>"A Healthy Ireland, where everyone can enjoy physical and mental health and wellbeing to their full potential, where wellbeing is valued and supported at every level of society and is everyone's responsibility."</i> 	<p>These four goals are interlinked, interdependent and mutually supportive:</p> <ul style="list-style-type: none"> Goal 1: Increase the proportion of people who are healthy at all stages of life Goal 2: Reduce health inequalities Goal 3: Protect the public from threats to health and wellbeing Goal 4: Create an environment where every individual and sector of society can play their part in achieving a healthy Ireland 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Our Sustainable Future: A framework for Sustainable Development for Ireland 2012	<p>A medium to long term framework for advancing sustainable development and the green economy in Ireland. It identifies spatial planning as a key challenge for sustainable development and sets a series of measures to address these challenges.</p>	<ul style="list-style-type: none"> Sets out the challenges facing us and how we might address them in making sure that quality of life and general wellbeing can be improved and sustained in the decades to come. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Smarter Travel – A Sustainable Transport Future – A New Transport Policy for Ireland 2009 – 2020 (2009)	<ul style="list-style-type: none"> Outlines a policy for how a sustainable travel and transport system can be achieved. Sets out five key goals: <ul style="list-style-type: none"> To reduce overall travel demand. To maximise the efficiency of the transport network. To reduce reliance on fossil fuels. To reduce transport emissions. To improve accessibility to transport. 	<ul style="list-style-type: none"> Others lower level aims include: <ul style="list-style-type: none"> reduce distance travelled by private car and encourage smarter travel, including focusing population growth in areas of employment and to encourage people to live in close proximity to places of employment ensuring that alternatives to the car are more widely available, mainly through a radically improved public transport service and through investment in cycling and walking improving the fuel efficiency of motorised transport through improved fleet structure, energy efficient driving and alternative technologies strengthening institutional arrangements to deliver the targets 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Investing in our Future: A Strategic Framework for Investment in Land Transport (SFILT) – Department of Transport, Tourism and Sport	<ul style="list-style-type: none"> SFILT sets out a set of priorities to guide the allocation of the State's investment to best develop and manage Ireland's land transport network over the coming decades. 	<p>The three priorities stated in SFILT are:</p> <ul style="list-style-type: none"> Priority 1: Achieve steady state maintenance (meaning that the maintenance and renewal of the existing transport system is at a sufficient level to maintain the system in an adequate condition); Priority 2: Address urban congestion; and Priority 3: Maximise the value of the road network. <p>In delivering on the steady state maintenance objective set out in SFILT, the Plan includes for:</p> <ul style="list-style-type: none"> Planned replacement programme for the bus fleet operated under Public Service Obligation ("PSO") contracts; Tram refurbishment and asset renewal in the case of light rail; and To the extent within the Authority' remit, support for the operation of the existing rail network within the GDA. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Delivering a Sustainable Energy Future for Ireland – The Energy Policy Framework 2007 – 2020 (2007)	<ul style="list-style-type: none"> White paper setting out a framework for delivering a sustainable energy future in Ireland. Outlines strategic Goals for: <ul style="list-style-type: none"> Security of Supply 	<p>The underpinning Strategic Goals are:</p> <ul style="list-style-type: none"> Ensuring that electricity supply consistently meets demand Ensuring the physical security and reliability of gas supplies to Ireland Enhancing the diversity of fuels used for power generation 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise.</p>

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	<ul style="list-style-type: none"> ○ Sustainability of Energy ○ Competitiveness of Energy Supply 	<ul style="list-style-type: none"> • Delivering electricity and gas to homes and businesses over efficient, reliable and secure networks • Creating a stable attractive environment for hydrocarbon exploration and production • Being prepared for energy supply disruptions 	Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Adaptation Framework (NAF) 2018 and associated regional, local and sectoral adaptation plans	<ul style="list-style-type: none"> • NAF specifies the national strategy for the application of adaptation measures in different sectors and by local authorities in their administrative areas in order to reduce the vulnerability of the State to the negative effects of climate change and to avail of any positive effects that may occur 	<ul style="list-style-type: none"> • Adaptation under this Framework should seek to minimise costs and maximise the opportunities arising from climate change. • Adaptation actions range from building adaptive capacity (e.g. increasing awareness, sharing information and targeted training) through to policy and finance-based actions. • Adaptation actions must be risk based, informed by existing vulnerabilities of our society and systems and an understanding of projected climate change. • Adaptation actions taken to increase climate resilience must also consider impacts on other sectors and levels of governance 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Governments White Paper 'Ireland's Transition to a Low Carbon Energy Future' (2015 – 2030)	The White Paper sets out a vision and a framework to guide Irish energy policy between now and 2030. A complete energy policy update informed by the vision to transform Ireland into a low carbon society and economy by 2050.	2030 will represent a significant milestone, meaning: <ul style="list-style-type: none"> • Reduced GHG emissions from the energy sector by between 80% and 95% • Ensuring that secure supplies of competitive and affordable energy remain available to citizens and businesses. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Renewable Energy Action Plan (2010)	<ul style="list-style-type: none"> • Sets out the Member State's national targets for the share of energy from renewable sources to be consumed in transport, electricity and heating and cooling in 2020, and demonstrates how the Member State will meet its overall national target established under the Directive. 	Including Ireland's 16% target of gross final consumption to come from renewables by 2020.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Energy Efficiency Action Plan for Ireland (2009 – 2020)	<ul style="list-style-type: none"> • This is the second National Energy Efficiency Action Plan for Ireland. 	<ul style="list-style-type: none"> • The Plan reviews the original 90 actions outlined in the first Plan and updates/renews/removes them as appropriate. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Wildlife Act of 1976 Wildlife (Amendment) Act, 2000	<ul style="list-style-type: none"> • The act provides protection and conservation of wild flora and fauna. 	<ul style="list-style-type: none"> • Provides protection for certain species, their habitats and important ecosystems • Give statutory protection to NHAs • Enhances wildlife species and their habitats • Includes more species for protection 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Actions for Biodiversity (2017-2021) Ireland's National Biodiversity Plan	<ul style="list-style-type: none"> • Sets out strategic objectives, targets and actions to conserve and restore Ireland's biodiversity and to prevent and reduce the loss of biodiversity in Ireland and globally. 	<ul style="list-style-type: none"> • To mainstream biodiversity in the decision-making process across all sectors. • To substantially strengthen the knowledge base for conservation, management and sustainable use of biodiversity. • To increase awareness and appreciation of biodiversity and ecosystems services. • To conserve and restore biodiversity and ecosystem services in the wider 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all

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		<ul style="list-style-type: none"> • countryside. • To conserve and restore biodiversity and ecosystem services in the marine environment. • To expand and improve on the management of protected areas and legally protected species. • To substantially strengthen the effectiveness of international governance for biodiversity and ecosystem services. 	<p>environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>National Broadband Plan (2012)</p>	<ul style="list-style-type: none"> • Sets out the strategy to deliver high speed broadband throughout Ireland. 	<p>The Plan sets out:</p> <ul style="list-style-type: none"> • A clear statement of Government policy on the delivery of High-Speed Broadband. • Specific targets for the delivery and rollout of high-speed broadband and the speeds to be delivered. • The strategy and interventions that will underpin the successful implementation of these targets. • A series of specific complementary measures to promote implementation of Government policy in this area. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>European Communities (Water Policy) Regulations of 2003 (SI No. 722 of 2003)</p> <p>European Communities (Water Policy) Regulations of 2003 (SI No. 350 of 2014)</p> <p>European Communities Environmental Objectives (Surface waters) Regulations of 2009 (SI No. 272 of 2009)</p>	<ul style="list-style-type: none"> • Transpose the Water Framework Directive into legislation. • Outlines the general duty of public authorities in relation to water. • Identifies the competent authorities in charge of water policy (amended to Irish Water, now Uisce Éireann, in 2013) and gives EPA and the CER the authority to regulate and supervise their actions. 	<ul style="list-style-type: none"> • Implements River basin districts and characterisation of RBDs and River Basin Management Plans. • Requires the public to be informed and consulted on the Plan and for progress reports to be published on RBDs. • Implements a Register of protected areas, Classification systems and Monitoring programmes for water bodies. • Allows the competent authority to recover the cost of damage/destruction of status of water body. • Outlines environmental objectives and programme of measures and environmental quality standards for priority substances. • Outlines criteria for assessment of groundwater. • Outlines environmental objectives to be achieved for surface water bodies. • Outlines surface water quality standards. • Establishes threshold values for the classification and protection of surface waters against pollution and deterioration in quality. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>European Communities Environmental Objectives (Groundwater) Regulations of 2010 (SI No. 9 of 2010)</p>	<ul style="list-style-type: none"> • Transpose the requirements of the Groundwater Directive 2006/118/EC into Irish Legislation. 	<ul style="list-style-type: none"> • Outlines environmental objectives to be achieved for groundwater bodies of groundwater against pollution and deterioration in quality. • Sets groundwater quality standards. • Outlines threshold values for the classification and protection of groundwater. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>Water Pollution Acts 1977 to 1990</p>	<ul style="list-style-type: none"> • The Water Pollution Acts allow Local Authorities the authority regulate and supervise actions relating to water in their division. 	<p>The Water Pollution Acts enable local authorities to:</p> <ul style="list-style-type: none"> • Prosecute for water pollution offences. • Attach appropriate pollution control conditions in the licensing of effluent discharges from industry, etc., made to waters. • Issue notices ("section 12 notices") to farmers, etc., specifying measures to be taken within a prescribed period to prevent water pollution. • issue notices requiring a person to cease the pollution of waters and requiring the mitigation or remedying of any effects of the pollution in the manner and within the period specified in such notices; • Seek court orders, including High Court injunctions, to prevent, terminate, mitigate or remedy pollution/its effects. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>Water Services Act 2007</p> <p>Water Services (Amendment) Act 2012</p> <p>Water Services Act (No. 2) 2013</p>	<ul style="list-style-type: none"> • Provides the water services infrastructure. • Outlines the responsibilities involved in delivering and managing water services. • Identifies the authority in charge of provision of water and waste water supply. • Irish Water, now Uisce Éireann, was given the responsibility of the provision of water and waste water services in the amendment act during 2013, therefore these services are no longer the responsibility of the 34 Local Authorities in Ireland. 	<p>Key strategic objectives include:</p> <ul style="list-style-type: none"> • Ensuring Uisce Éireann delivers infrastructural projects that meet key public health, environmental and economic objectives in the water services sector. • Ensuring the provision of adequate water and sewerage services in the gateways and hubs listed in the National Spatial Strategy, and in other locations where services need to be enhanced. • Ensuring good quality drinking water is available to all consumers of public and group water supplies, in compliance with national and EU drinking water standards • Ensuring the provision of the remaining infrastructure needed to provide secondary waste water treatment, for compliance with the requirements of the EU Urban Waste water Treatment Directive. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>

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Uisce Éireann's Water Services Strategic Plan 2015 and associated Proposed Capital Investment Plans	<ul style="list-style-type: none"> This Water Services Strategic Plan sets out strategic objectives for the delivery of water services over the next 25 years up to 2040. It details current and future challenges which affect the provision of water services and identifies the priorities to be tackled in the short and medium term. 	<p>Six strategic objectives as follows:</p> <ul style="list-style-type: none"> Meet Customer Expectations. Ensure a Safe and Reliable Water Supply. Provide Effective Management of Waste water. Protect and Enhance the Environment. Support Social and Economic Growth. Invest in the Future. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Raised Bog SAC Management Plan and Review of Raised Bog Natural Heritage Areas	<ul style="list-style-type: none"> Aims to meet nature conservation obligations while having regard to national and local economic, social and cultural needs 	<ul style="list-style-type: none"> Ensure that the implications of management choices for water levels, quantity and quality are fully explored, understood and factored into policy making and land use planning. Review the current raised bog NHA network in terms of its contribution to the national conservation objective for raised bog habitats and determine the most suitable sites to replace the losses of active raised bog habitat and high bog areas within the SAC network and to enhance the national network of NHAs. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Agri-Food Strategy 2030	<p>This 10-year Strategy sets out four high-level "Missions" to be achieved in order to develop such a system in Ireland:</p> <ol style="list-style-type: none"> A Climate Smart, Environmentally Sustainable Agri-Food Sector Viable and Resilient Primary Producers with Enhanced Wellbeing Food that is Safe, Nutritious and Appealing, Trusted and Valued at Home and Abroad An Innovative, Competitive and Resilient Sector, driven by Technology and Talent 	<p>Each of the Missions has a set of Goals which are underpinned by a series of Actions.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Agri-vision 2015 Action Plan	<p>Outlines the vision for agricultural industry to improve competitiveness and response to market demand while respecting and enhancing the environment</p>	<p>not applicable</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
Rural Environmental Protection Scheme (REPS) Agri-Environmental Options Scheme (AEOS) Green, Low-Carbon, Agri-environment Scheme (GLAS)	<ul style="list-style-type: none"> Agri-environmental funding schemes aimed at rural development for the environmental enhancement and protection. GLAS is the new replacement for REPS and AEOS which are both expiring. 	<ul style="list-style-type: none"> Establish best practice farming methods and production methods in order to protect landscapes and maximise conservation. Protect biodiversity, endangered species of flora and fauna and wildlife habitats. Ensure food is produced with the highest regard to the environment. Implement nutrient management plans and grassland management plans. Protect and maintain water bodies, wetlands and cultural heritage. 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
National Rural Development Programme	<ul style="list-style-type: none"> The National Rural Development Programme, prepared by the Department of Agriculture, Fisheries and Food, sets out a national programme based on the EU framework for rural development and prioritises improving the competitiveness of agriculture, improving the environment and improving the quality of life in rural areas 	<p>At a more detailed level, the programme also:</p> <ul style="list-style-type: none"> Supports structural change at farm level including training young farmers and encouraging early retirement, support for restructuring, development and innovation; Aims to improve the environment, biodiversity and the amenity value of the countryside by support for land management through funds such as Natura 2000 payments etc.; and Aims to improve quality of life in rural areas and encouraging diversification of economic activity through the implementation of local development strategies such as non-agricultural activities 	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>

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Legislation, Plan, etc.	Summary of high-level aim/ purpose/ objective	Summary of lower-level objectives, actions etc.	Relevance to the Plan
National Forestry Programme (2014-2020)	<ul style="list-style-type: none"> Represents Ireland's proposals for 100% State aid funding for a new Forestry Programme for the period 2014 – 2020. 	<p>Measures include the following:</p> <ul style="list-style-type: none"> Afforestation and Creation of Woodland NeighbourWood Scheme Forest Roads Reconstitution Scheme Woodland Improvement Scheme Native Woodland Conservation Scheme Knowledge Transfer and Information Actions Producer Groups Innovative Forest Technology Forest Genetic Reproductive Material Forest Management Plans 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
River Basin Management Plan for Ireland 2022-2027 3rd Cycle [in preparation]	This draft River Basin Management Plan sets out the measures that are necessary to protect and restore water quality in Ireland. The overall aim of the plan is to ensure that our natural waters are sustainably managed and that freshwater resources are protected so as to maintain and improve Ireland's water environment.	The River Basin Management Plan sets out the measures necessary to protect and improve the quality of Ireland's waters. These plans are prepared in 6-year cycles, during which a programme of measures must be implemented so as to achieve water quality objectives. Good water quality contributes to protecting human health by improving the quality of drinking water sources and bathing waters.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Peatlands Strategy (2015-2025)	This Strategy aims to provide a long-term framework within which all of the peatlands within the State can be managed responsibly in order to optimise their social, environmental and economic contribution to the well-being of this and future generations.	<p>Objectives of the Strategy:</p> <ul style="list-style-type: none"> To give direction to Ireland's approach to peatland management. To apply to all peatlands, including peat soils. To ensure that the relevant State authorities and state-owned companies that influence such decisions contribute to meeting cross-cutting objectives and obligations in their policies and actions. To ensure that Ireland's peatlands are sustainably managed so that their benefits can be enjoyed responsibly. To inform appropriate regulatory systems to facilitate good decision making in support of responsible use. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Flood Risk Management Plans arising from National Catchment Flood Risk Assessment and Management Programme	The national Catchment Flood Risk Assessment and Management (CFRAM) programme commenced in Ireland in 2011 and is being overseen by the Office of Public Works. The CFRAM Programme is intended to deliver on core components of the National Flood Policy, adopted in 2004, and on the requirements of the EU Floods Directive.	CFRAM Studies have been undertaken for all River Basin Districts. The studies are focusing on areas known to have experienced flooding in the past and areas that may be subject to flooding in the future either due to development pressures or climate change. Flood Risk and Hazard mapping, including Flood Extent Mapping, was finalised in 2017. The final outputs from the studies are the CFRAM Plans, finalised in 2018. The Plans define the current and future flood risk in the River Basin Districts and set out how this risk can be managed.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Draft National Bioenergy Plan 2014 - 2020	The Draft Bioenergy Plan sets out a vision as follows: Bioenergy resources contributing to economic development and sustainable growth, generating jobs for citizens, supported by coherent policy, planning and regulation, and managed in an integrated manner.	<p>Three high level goals of equal importance, based on the concept of sustainable development are identified:</p> <ul style="list-style-type: none"> To harness the market opportunities presented by bioenergy in order to achieve economic development, growth and jobs. To increase awareness of the value, opportunities and societal benefits of developing bioenergy. To ensure that bioenergy developments do not adversely impact the environment and its living and non-living resources. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Draft Renewable Electricity Policy and Development Framework (DCCAEE) 2016	Goal: To optimise the opportunities in Ireland for renewable electricity development on land at significant scale, to serve both the All-Island Single Electricity Market and any future regional market within the European Union, in accordance with European and Irish law, including Directive 2009/28/EC: On the promotion of the use of energy from renewable resources.	Objective: To develop a Policy and Development Framework for renewable electricity generation on land to serve both the All-Island Single Electricity Market and any future regional market within the European Union, with particular focus on large scale projects for indigenous renewable electricity generation. This will, inter alia, provide guidance for planning authorities and An Bord Pleanála.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.

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National Alternative Fuels Infrastructure for the Transport Sector (DTTAS) 2017- 2030	This Framework sets targets to achieve an appropriate level of alternative fuels infrastructure for transport, which is relative to national policy and Irish market needs. Non-infrastructure-based incentives to support the use of the infrastructure and the uptake of alternative fuels are also included within the scope of the Framework.	Targets for alternative fuel infrastructure include the following: <ul style="list-style-type: none"> • AFV forecasts • Electricity targets • Natural gas (CNG, LNG) targets • Hydrogen targets • Biofuels targets • LPG targets • Synthetic and paraffinic fuels targets 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Food Wise 2025 (DAFM)	Food Wise 2025 sets out a ten-year plan for the agri-food sector. It underlines the sector's unique and special position within the Irish economy, and it illustrates the potential which exists for this sector to grow even further.	Food Wise 2025 identifies ambitious and challenging growth projections for the industry over the next ten years including: <ul style="list-style-type: none"> • 85% increase in exports to €19 billion. • 70% increase in value added to €13 billion. • 60% increase in primary production to €10 billion. • The creation of 23,000 additional jobs all along the supply chain from producer level to high-end value-added product development. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
All Ireland Pollinator Plan 2021-2025	The All-Ireland Pollinator Plan is an island-wide attempt to reverse declines in pollinating insects to ensure the sustainability of our food, avoid additional economic impacts on agriculture, and protect the health of the environment. The main objectives include: <ul style="list-style-type: none"> • Making farmland, public land and private land in Ireland pollinator friendly; • Raising awareness of pollinators and how to protect them; • Managed pollinators – supporting beekeepers and growers; • Expanding our knowledge of pollinators and pollination service; and • Collecting evidence to track change and measure success. 	This voluntary Plan identified 81 actions, shared out between over 100 governmental and non-governmental organisations. A large focus of the Plan is to identify actions to improve the quality and amount of flower-rich habitat. Actions range from creating pollinator highways along our transport routes, to supporting pollinators on farmland, in gardens, businesses, and on public land.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Cycle Network Scoping Study 2010	<ul style="list-style-type: none"> • Outlines objectives and actions aimed at developing a strong cycle network in Ireland • Sets out 19 specific objectives, and details the 109 actions, aimed at ensuring that a cycling culture is developed 	<ul style="list-style-type: none"> • Sets a target where 10% of all journeys will be made by bike by 2020 • Proposes the planning, infrastructure, communication, education and stakeholder participations measures required to implement the initiative 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Policy Framework for Alternative Fuels Infrastructure for Transport in Ireland 2017 to 2030	<ul style="list-style-type: none"> • This National Policy Framework on Alternative Fuels Infrastructure for Transport represents the first step in communicating our longer-term national vision for decarbonising transport by 2050, the cornerstone of which is our ambition that by 2030 all new cars and vans sold in Ireland will be zero-emissions capable. • By 2030 it is envisaged that the movement in Ireland to electrically fuelled cars and commuter rail will be well underway, with natural gas and biofuels developing as major alternatives in the freight and bus sectors. 	This policy set out to achieve five key goals in transport: <ul style="list-style-type: none"> • Reduce overall travel demand • Maximise the efficiency of the transport network • Reduce reliance on fossil fuels • Reduce transport emissions • Improve accessibility to transport <p>These goals remain the cornerstone of transport policy and are fully aligned to the objectives of this National Policy Framework.</p>	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Tourism Action Plan 2019-2021	The Tourism Action Plan 2019-2021 sets out actions that the Tourism Leadership Group has identified as priorities to be progressed until 2021 in order to maintain sustainable growth in overseas tourism revenue and employment. Each action involves specific tourism stakeholders, both in the public and private sectors, all of whom we expect to proactively work towards the completion of actions within the specified timeframe.	The Plan contains 27 actions focusing on the following areas: <ul style="list-style-type: none"> • Policy Context • Marketing Ireland as a Visitor Destination • Enhancing the Visitor Experience • Research in the Irish Tourism Sector • Supporting Local Communities in Tourism • Wider Government Policy • International Context • Co-ordination Structures 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.

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Tourism Policy Statement: People, Place and Policy – Growing Tourism to 2025	The main goal of this policy statement is to have a vibrant, attractive tourism sector that makes a significant contribution to employment across the country; is economically, socially and environmentally sustainable; helps promote a positive image of Ireland overseas and is a sector in which people want to work.	The Tourism Policy Statement sets three headline targets to be achieved by 2025: <ul style="list-style-type: none"> • Overseas tourism revenue of €5 billion per year • net of inflation excluding carrier receipts; • 250,000 people employed in tourism; and • 10 million overseas visitors to Ireland per year. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Draft Renewable Electricity Policy and Development Framework (DCCA)	Goal: To optimise the opportunities in Ireland for renewable electricity development on land at significant scale, to serve both the All-Ireland Single Electricity Market and any future regional market within the European Union, in accordance with European and Irish law, including Directive 2009/28/EC: On the promotion of the use of energy from renewable resources.	Objective: To develop a Policy and Development Framework for renewable electricity generation on land to serve both the All-Ireland Single Electricity Market and any future regional market within the European Union, with particular focus on large scale projects for indigenous renewable electricity generation. This will, inter alia, provide guidance for planning authorities and An Bord Pleanála. Methodology: Development of the Policy and Development Framework is to be informed by the carrying out of an SEA, including widespread consultation with stakeholders and public, and with AA under the Habitats Directive.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
National Alternative Fuels Infrastructure for the Transport Sector (DTAS) 2017- 2030	This Framework sets targets to achieve an appropriate level of alternative fuels infrastructure for transport, which is relative to national policy and Irish market needs. Non-infrastructure-based incentives to support the use of the infrastructure and the uptake of alternative fuels are also included within the scope of the Framework.	Targets for alternative fuel infrastructure include the following: <ul style="list-style-type: none"> • AFV forecasts • Electricity targets • Natural gas (CNG, LNG) targets • Hydrogen targets • Biofuels targets • LPG targets Synthetic and paraffinic fuels targets	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Tourism Policy Statement: People, Place and Policy – Growing Tourism to 2025	The main goal of this policy statement is to have a vibrant, attractive tourism sector that makes a significant contribution to employment across the country; is economically, socially and environmentally sustainable; helps promote a positive image of Ireland overseas, and is a sector in which people want to work	The Tourism Policy Statement sets three headline targets to be achieved by 2025: <ul style="list-style-type: none"> • Overseas tourism revenue of €5 billion per year • net of inflation excluding carrier receipts; • 250,000 people employed in tourism; and • 10 million overseas visitors to Ireland per year. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Tourism Development and Innovation – A Strategy for Investment 2016-2022, (Fáilte Ireland, 2016)	This strategy sets out the framework and mechanism for the delivery of investment to cities, towns, villages, communities and businesses across the country. It identifies priorities to support innovation in the sector to retain and grow the country's competitiveness in the marketplace. Its ultimate aim is to strengthen the appeal of Ireland for international visitors.	The objectives of the Tourism Development and Innovation Strategy are: <ul style="list-style-type: none"> • To successfully and consistently deliver a world class visitor experience; • To support a tourism sector that is profitable and achieves sustainable levels of growth and delivers jobs; • To facilitate communities to play an enhanced role in developing tourism in their locality, thereby strengthening and enriching local communities; and • To recognise, value and enhance Ireland's natural environment as the cornerstone of Irish tourism. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Regional/ County/Local Level			
Southern Regional Economic and Spatial Strategy 2019-2031	The Regional Spatial and Economic Strategies provide a long-term regional level strategic planning and economic framework in support of the implementation of the National Planning Framework.	The Southern Regional Spatial and Economic Strategy includes provisions for its 10 constituent local authorities: Cork City Council; Cork County Council; Clare County Council; Kerry County Council; Limerick City and County Council; Tipperary County Council; Waterford County Council; Carlow County Council; Kilkenny County Council; and Wexford County Council.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.

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NPWS Conservation Plans and/or Conservation Objectives for SACs and SPAs	Management planning for nature conservation sites has a number of aims. These include: <ul style="list-style-type: none"> To identify and evaluate the features of interest for a site To set clear objectives for the conservation of the features of interest To describe the site and its management To identify issues (both positive and negative) that might influence the site To set out appropriate strategies/management actions to achieve the objectives 	<ul style="list-style-type: none"> Conservation objectives for SACs and SPAs (i.e. sites within the Natura 2000 network) have to be set for the habitats and species for which the sites are selected. These objectives are used when carrying out appropriate assessments for plans and projects that might impact on these sites. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Groundwater Protection Schemes	A Groundwater Protection Scheme provides guidelines for the planning and licensing authorities in carrying out their functions, and a framework to assist in decision-making on the location, nature and control of developments and activities in order to protect groundwater.	A Groundwater Protection Scheme aims to maintain the quantity and quality of groundwater, and in some cases improve it, by applying a risk assessment-based approach to groundwater protection and sustainable development.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Local Economic and Community Plans (LECPs), including the Limerick LECP 2016-2022	The overarching vision for each LECP is: "to promote the well-being and quality of life of citizens and communities	The purpose of the LECP, as provided for in the Local Government Reform Act 2014, is to set out, for a six-year period, the objectives and actions needed to promote and support the economic development and the local and community development of the relevant local authority area, both by itself directly and in partnership with other economic and community development stakeholders.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Land Use Plans including those in force in County Limerick (including the overarching Limerick Development Plan 2022-2028), and those in force in other adjoining planning authorities of Clare County Council, Kerry County Council, Cork County Council and Tipperary County Council (including Development Plans and Local Area Plans for settlements)	<ul style="list-style-type: none"> Outline planning objectives for land use development (including transport and tourism objectives). Strategic framework for planning and sustainable development including those set out in National Planning Framework and Regional Economic and Spatial Strategies. Set out the policies and proposals to guide development in the specific Local Authority area. 	<ul style="list-style-type: none"> Identify future infrastructure, development and zoning required. Protect and enhances amenities and environment. Guide planning authority in assessing proposals. Aim to guide development in the area and the amount of nature of the planned development. Aim to promote sustainable development. Provide for economic development and protect natural environmental, heritage. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
County Limerick Landscape Character Assessment and Landscape Character Assessments/Reviews in adjoining counties	<ul style="list-style-type: none"> Characterises the geographical dimension of the landscape. 	<ul style="list-style-type: none"> Identifies the quality, value, sensitivity and capacity of the landscape area. Guides strategies and guidelines for the future development of the landscape. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Limerick Heritage Plan 2017-2030	The Limerick Heritage Plan aims to invest in Limerick's infrastructure, protect its natural and built environment and unique heritage.	<ul style="list-style-type: none"> Pass on Limerick's heritage to future generations in the interest of sustainable future development Contribute to a sense of community, sense of pride, sense of place, respecting the natural, cultural and built environments and Limerick's unique biodiversity. To maximise the resources and expertise of the many agencies working in the heritage area, including state bodies, local government, the private and voluntary sectors. Complement and maximise the potential of heritage for tourism development, local economic development, and supporting principles of sustainable planning and development. Strengthen existing community development initiatives, assist local communities to secure funding for projects, e.g. Tidy Towns, etc. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.

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Limerick City and County Council Noise Action Plan 2018-2023	Noise Action Plans are prepared in accordance with the requirements of the Environmental Noise Regulations 2006, Statutory Instrument 140 of 2006. These Regulations give effect to the EU Directive 2002/49/EC relating to the assessment and management of environmental noise. This Directive sets out a process for managing environmental noise in a consistent manner across the EU and the Noise Regulations set out the approach to meeting the requirements of the Directive in Ireland.	The purpose of this Action Plan is to endeavour to manage the existing noise environment and protect the future noise environment within the action planning area. Management of the existing noise environment may be achieved by prioritising areas for which further assessment and possible noise mitigation may be required. Protection of the future noise environment may be achieved by acoustical planning, which further incorporates noise into the planning process via measures such as land-use planning, development planning, sound insulation measures, traffic planning and control of environmental noise sources.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Limerick County Council's Climate Adaptation Strategy 2019-2024	Climate Change Adaptation Strategies represent a proactive step by Local Authorities in the process of adaptation planning to build resilience and respond effectively to the threats posed by climate change.	The Climate Change Adaptation Strategies takes on the role as the primary instrument at local level to: <ul style="list-style-type: none"> • Ensure a proper comprehension of the key risks and vulnerabilities of climate change; • Bring forward the implementation of climate resilient actions in a planned and proactive manner; and • Ensure that climate adaptation considerations are mainstreamed into all plans and policies and integrated into all operations and functions of County Council. 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Retail Strategy for Limerick Shannon Metropolitan Area and County Limerick 2022 – 2028	The overriding aim of the strategy is to create the appropriate conditions necessary to foster a healthy and vibrant retail environment in Limerick City Centre and throughout the Metropolitan Area and County Limerick to help improve the retail environment, enhance the vitality of urban areas and effectively manage and support positive change.	The key outputs are covered under number of headings including: <ul style="list-style-type: none"> • National, Regional and Local Policy Context • Current Retail Trends • Shopper and Household Retail Surveys • Town Centre Health Checks • Projected Retail Floorspace Requirements • Retail Planning Policies and Criteria for Assessment 	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Southern Region Waste Management Plan 2015-2021	These plans give effect to national and EU waste policy, and address waste prevention and management (including generation, collection and treatment) over the period 2015-2021.	To manage wastes in a safe and compliant manner, a clear strategy, policies and actions are required.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Limerick Tourism Development Strategy and Action Plan 2019 – 2023	This strategy document identifies four themes that connect the unique selling points of both Limerick City and County. A vibrant city is central to this and the ability to orientate visitors across all areas of the city. The strategic themes include: <ol style="list-style-type: none"> 1. Into the Blue, identifying the importance of the Shannon River and Estuary to Limerick. 2. Energy Unleashed, harnessing Limerick's sporting culture. 3. Vibrant History, showcasing Limerick's archaeological, architectural and cultural heritage. 4. Alive & Kicking, celebrating Limerick's vibrant and dynamic culture and night life 	The strategy refers to a range of actions directly relevant to Limerick City.	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.
Limerick 2030	Limerick 2030 is the first Economic and Spatial Plan for Limerick. It sets out a framework for public sector action and private sector investment until 2030 through the three key elements of economic strategy, Spatial Plan and a Marketing Plan.	A key objective of the Spatial Plan for the City Centre is 'to establish a unique tourism offer that takes full advantage of the City Centre's special heritage and environmental characteristics.'	Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.

SEA Environmental Report for the Newcastle West Local Area Plan 2023-2029

Legislation, Plan, etc.	Summary of high-level aim/ purpose/ objective	Summary of lower-level objectives, actions etc.	Relevance to the Plan
<p>Fáilte Ireland Tourism plans and strategies</p>	<p>Fáilte Ireland’s work includes preparing various plans and strategies for Ireland’s Wild Atlantic Way and other brands and initiatives. These plans are subject to their own environmental assessment processes and any project arising is required to be consistent with and conform with the provisions of all adopted/approved Statutory Policies, Strategies, Plans and Programmes, including provisions for the protection and management of the environment.</p>	<p>Some of Fáilte Ireland’s plans and strategies include various projects relating to land use and infrastructural development, including those relating to development of land on land and the carrying out of land use activities. Many of these projects exist already while some are not currently in existence.</p> <p>The Statutory Policies, Strategies, Plans and Programmes that provide for different projects undergo a variety of environmental assessments. These assessments ensure that environmental effects are considered, including: those arising from new and intensified uses and activities; and those arising from various sectors such as tourism.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>
<p>Various existing, planned and emerging projects provided for by the above plans and programmes</p>	<p>These projects have been provided for by higher-level plans and programmes.</p>	<p>These projects will contribute towards the development of the area to which the Plan relates and/or wider area and will contribute towards environmental protection and management.</p>	<p>Where new land use developments or activities occur as a result of this legislation, plan, programme, etc., individually or in combination with others, potential in-combination effects (see Section 8.2) may arise. Implementation of the Plan needs to comply with all environmental legislation and align with and cumulatively contribute towards – in combination with other users and bodies and their plans etc. – the achievement of the objectives of the regulatory framework for environmental protection and management.</p>