# **SEA ENVIRONMENTAL REPORT**

# APPENDIX II – NON-TECHNICAL SUMMARY

FOR THE

# BIRR LOCAL AREA PLAN 2023-2029

### Offaly County Council

Áras an Chontae Charleville Road Tullamore County Offaly



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for:

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## Section 1 Introduction and Terms of Reference

This is the Non-Technical Summary of the Environmental Report for the Birr Local Area Plan 2023-2029 (hereafter referred to as 'the Plan'). The purpose of the Environmental Report is to provide a clear understanding of the likely environmental consequences of decisions regarding the adoption and implementation of the Plan. The Environmental Report has been prepared as part of a Strategic Environmental Assessment (SEA) process for the Plan.

#### What is SEA?

SEA is a systematic process of predicting and evaluating the likely environmental effects of implementing a proposed plan, or other strategic action, in order to ensure that these effects are appropriately addressed at the earliest appropriate stage of decision-making on a par with economic, social and other considerations.

#### Why is SEA needed? 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.

#### How does the SEA work?

All of the main environmental issues in the area were assembled and considered by the team who prepared the Plan. This helped them to devise a Plan that contributes towards the protection and management of environmental sensitivities. It also helped to identify wherever potential conflicts between the Plan and the environment exist and enabled these conflicts to be mitigated.

The SEA was scoped in consultation with designated environmental authorities.

#### What is included in the Environmental Report that accompanies the Plan?

- A description of the environment and the key environmental issues;
- A description and assessment of alternatives for the Plan;
- An assessment of the provisions of the Plan; and,
- Mitigation measures, which will avoid/reduce the environmental effects of implementing the Plan and will contribute towards compliance with important environmental protection legislation.

#### **Difficulties Encountered during the SEA process**

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

#### What happens at the end of the process?

An SEA Statement is prepared which summarises, inter alia, how environmental considerations have been integrated into the Plan.

# Section 2 The Plan

### 2.1 Introduction

Offaly County Council has adopted a new Local Area Plan (LAP) for Birr 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 policies and objectives of the County 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 Offaly County Development Plan 2021-2027, which sets out the overarching development strategy for the County. Where conflicting objectives arise between the County Development Plan and the LAP, the objectives of the relevant County Development Plan shall take precedence.

### 2.2 Content of the Plan

This LAP sets out an overall strategy for the proper planning and sustainable development of Birr in the context of Project Ireland 2040, the National Planning Framework, the Regional Spatial and Economic Strategy for the Eastern and Midland Region and the Offaly County 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 general development management standards, zoning matrix/descriptions and policies and objectives in the County Development Plan applicable to settlements (including provisions relating to environmental protection and management) can be applied to the LAP boundary area, while additional policies and objectives that are specific to Birr are included in the LAP.

LAP provisions are set out under ten chapters as follow:

- Chapter 1 Introduction
- Chapter 2 Economic Development
- Chapter 3 Town Centre and Regeneration
- Chapter 4 Built Heritage
- Chapter 5 Residential
- Chapter 6 Biodiversity and Green Infrastructure
- Chapter 7 Community
- Chapter 8 Climate Action
- Chapter 9 Critical Infrastructure
- Chapter 10 Planning and Infrastructural Assessment
- Chapter 11 Land Use Zoning Objectives
- Chapter 12 Implementation and Monitoring
- Appendix 1 Local Transport Plan

### 2.3 Strategic Vision and Aims

The LAP is underpinned by a strategic vision statement which is intended to guide the future growth of Birr in a sustainable manner, in a way that reflects the inherent character of the area and identifies the potential of utilising its existing assets as the base for improving the quality of life and resilience of both the present and future residents of the town.

The following strategic aims in conjunction with each other will assist in delivering the strategic vision for Birr.

• Strategic Aim 1: Economic Development

To successfully fulfil Birr's role as a self-sustaining growth town by embracing the transition to a low carbon and climate resilient model of development while seeking to utilise and invest in the town's existing economic, social and environmental assets to generate sustainable economic development and job creation, thereby enhancing its status

as the main business, service, social, cultural, tourism and recreational hub for everyone in south Offaly and ensuring it is an attractive place to live, work and visit.

#### • Strategic Aim 2: Town Centre and Regeneration

To sensitively and sustainably enhance the historic town centre through the provision of healthy place-making. To facilitate a competitive and healthy retail environment and to support the future vitality, diversity and viability of Birr town centre and Crinkill village. These aims will improve the attractiveness and functionality of Birr as a place in which to live, work and visit.

#### • Strategic Aim 3: Built Heritage

To protect, conserve and manage Birr's buildings, areas, structures, sites and features of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest, by promoting the understanding, enhancement and appropriate development of these assets in order to instigate a heritage-led regeneration of the town.

#### • Strategic Aim 4: Residential

Deliver high quality housing in terms of design, scale, mix, tenure, sequence and density to reasonable match the requirements of the different categories of households which shall be constructed on the principles of universal design, life-long adaptability and energy efficiency, and developed in a manner which promotes compact growth and healthy place-making and is in line with the Core Strategy in the County Development Plan.

#### • Strategic Aim 5: Biodiversity and Green Infrastructure

Protect and enhance Birr Town and Crinkill village's natural assets of clean water, biodiversity, landscape, green infrastructure, natural heritage and agricultural land, while maintaining ecosystem services and improving resilience to climate change.

#### • Strategic Aim 6: Community

Promote Birr as a town where people can live and work, with access to a range of community facilities and events that are vital for social inclusion and quality of life for all.

#### Strategic Aim 7: Climate Action

Enhance climate adaptation and mitigation, and accelerate a transition to a low carbon, climate resilient and environmentally sustainable economy in Birr.

- Strategic Aim 8: Critical Infrastructure
   Promote facilitate the timely provision of infrastructure and utilities that will support sustainable socioeconomic
   growth and protect the quality of the environment of the town in a low carbon manner.
- Strategic Aim 9: Planning and Infrastructural Assessment To phase new development to ensure that it occurs in a sequential and efficient manner and in tandem with the delivery of supporting physical and social infrastructure.

#### • Strategic Aim 10: Land Use Zoning Objectives

To adhere to the land use zoning objectives contained in this Plan in the interests of orderly development and eliminating potential conflicts between incompatible land uses.

#### • Strategic Aim 11: Implementation and Monitoring

To implement in conjunction with key stakeholders, the objectives of this Local Area Plan, with a particular focus on the key strategic objectives, and to monitor same.

### 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, Offaly County Council undertook various works in order to inform the preparation of the Plan.

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 following Birr specific non-statutory plans and studies were taken into account in the preparation of the LAP:

- Birr Local Transport Plan;
- Birr Public Realm Study;
- Rectory Lands Masterplan; and
- Birr Interpretive Strategy, A Unique Heritage Vision, 2021.

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 summarised in Section 6 of this report.

### 2.5 Relationship with other relevant Plans and Programmes

It is acknowledged that many of the major issues affecting Birr'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 described under Section 3, Section 4 and Section 6 of this summary. 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 (RSESs) and lower tier Development Plans and Local Area Plans. The RSES for the Eastern and Midlands 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 Offaly County Development Plan 2021-2027, which sets out the overarching development strategy for the County, 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.

# Section 3 The Environmental Baseline

### 3.1 Introduction

The summary of the environmental baseline of the Plan area is described in this section. This baseline together with the Strategic Environmental Objectives, which are identified in Section 3.11, is used in order to identify, describe and evaluate the likely significant environmental effects of implementing the Plan and in order to determine appropriate monitoring measures.

### 3.2 Likely Evolution of the Environment in the Absence of the Plan

In the absence of a new Local Area Plan, the framework for development across the Plan area would be provided by the County 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 both:

- A decreased likelihood in the extent, magnitude and frequency of the positive environmental effects identified by this assessment occurring; and;
- An increased likelihood in the extent, magnitude and frequency of the adverse environmental effects identified by this assessment occurring.

### 3.3 Biodiversity and Flora and Fauna

Key ecological sensitivities include:

- Birr Domestic Dwelling No. 1 and No. 2 proposed Natural Heritage Areas, located within central parts of the Plan area, and
- Aquatic and riverine ecology associated with the River Camcor and the River Little Brosna, including their tributaries and riparian buffer zones;
- Mature treelines, hedgerows and woodland;
- Dovegrove Callows and Woodville Woods proposed Natural Heritage Areas and Dovegrove Callows Special Protection Area, located less than 2 km to the north-west of the Plan area; and
- Killaun Bog, located to the north-east of the town.

Designated sites in the wider area include Special Areas of Conservation<sup>1</sup> (SACs) and Special Protection Areas<sup>2</sup> (SPAs). These are mapped on Figure 3.1. There are 14 SACs and 5 SPAs within 15 km of the Plan boundary.

CORINE<sup>3</sup> land cover mapping is shown on Figure 3.2 and identifies the land cover of the Plan area as urban fabric (mainly within central parts of the Plan area), agricultural (adjacent and surrounding lands) and forestry (to the north and west of the Plan area).

<sup>&</sup>lt;sup>1</sup> 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 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 into Irish law.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> The CORINE (Coordinated 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.

#### **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.

### 3.4 Population and Human Health

Census 2016 recorded a population of 4,370 persons in Birr and 682 persons in Crinkill. The Core Strategy in the Offaly County Development Plan 2021-2027 provides a population increase of 1,263 persons for Birr over the Plan period.

Birr (including Crinkill) is identified as a "Self-Sustaining Growth Town" in the Regional, Spatial and Economic Strategy for the Eastern and Midland Region, supporting the regional driver role of Tullamore, and acting as an important local driver providing a range of functions for its resident population and its surrounding catchment including housing, employment, services, retail and leisure opportunities.

The new 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.

Human health has the potential to be impacted upon by 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 arising from incompatible adjacent land uses for example. 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.

#### 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 country.

Parts of the Plan area are very vulnerable to adverse effects from changes in the occurrence of severe rainfall events and associated flooding of rivers and a number of smaller urban streams. Flooding in certain

circumstances could pose a risk to human health. There is historic and predictive evidence of flooding within the Plan area.

#### 3.5 Soil

Main soil types surrounding the built up areas of Birr are luvisols (generally fertile soils, widely used for agriculture and associated with significant accumulation of clay), alluvial soils (associated with alluvial clay, silt or sand river deposits) and groundwater gleys (to the west - beyond the Plan area). Peat soils occur within the north-east and south of the Plan area.

An audit of County Geological Sites in County Offaly was completed in 2016. There are 28 County Geological Sites across the County, including one within the southern parts of the Plan area, Crinkill Mushroom Rocks (Site Code: OY013).4

<sup>&</sup>lt;sup>4</sup> Individual audited site reports for County Offaly s available from the GSI (www.gsi.ie).

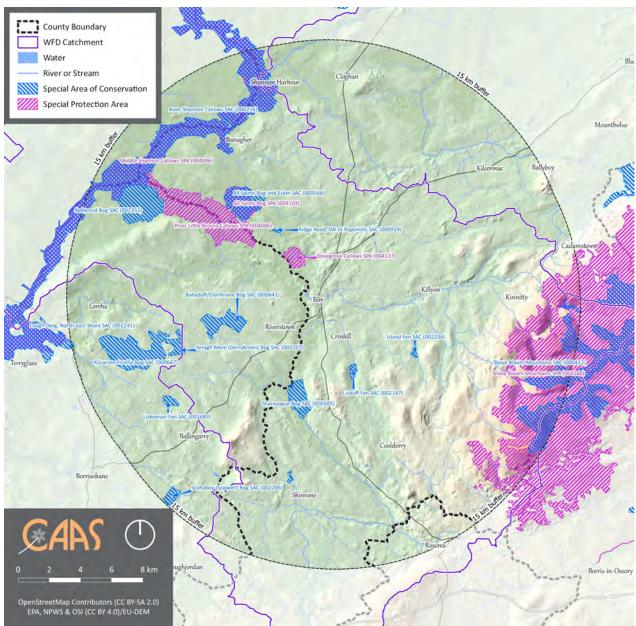


Figure 3.1 European Sites within and within 15 km buffer of Birr Plan area

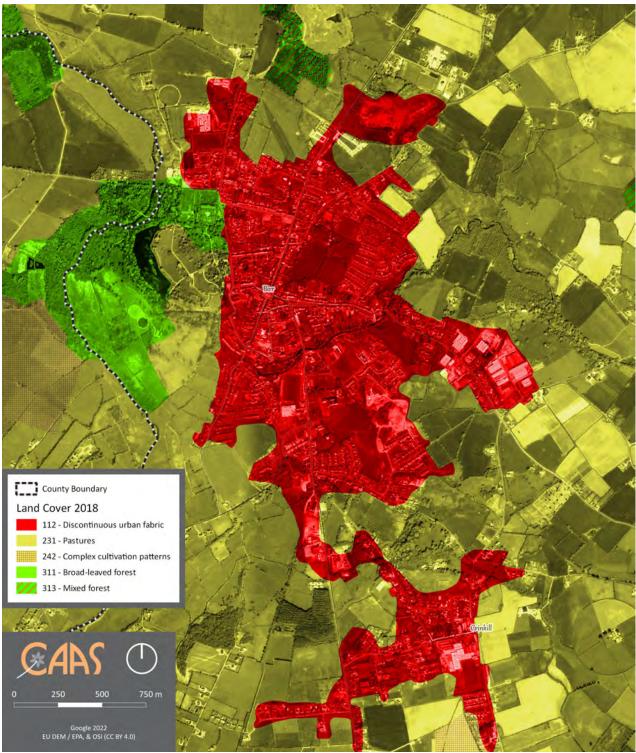


Figure 3.2 CORINE Land Cover Mapping 2018

### 3.6 Water

#### Surface and Ground Water Status

The current Water Framework Directive (2013-2018) status of the section of the Little Brosna River and the River Camcor within the Plan area is *good*. The status of the River Rock and the Little Brosna River to the south-west of the Plan area is *moderate*. Subject to exemptions provided for by Article 4 of the Water Framework Directive, these water bodies will need improvement in order to comply with the objectives of the WFD. The Water Framework Directive surface water status (2013-2018) of rivers and lakes within and surrounding the Plan area is shown on Figure 3.3.

The WFD status (2013-2018) of all groundwater underlying the Plan area is currently identified as being of *good status*, meeting the objectives of the Water Framework Directive.

#### Aquifer Vulnerability and Productivity

Aquifer vulnerability refers to the ease with which pollutants of various kinds can enter into groundwater. The aquifers underlying most the County are generally classified as being of *high vulnerability*.

#### Flooding

Land use zonings are already in force through the County Development Plan and are reproduced in the LAP. In addition, the land use zoning map in the LAP, corrects a number of relatively minor anomalies. The detailed County Development Plan preparation process undertaken by the Planning Department combined with specialist input from the SFRA process for the County Plan facilitated zoning that avoids inappropriate development being permitted in areas of high flood risk.

Flood and drainage related provisions have been integrated into the LAP.

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

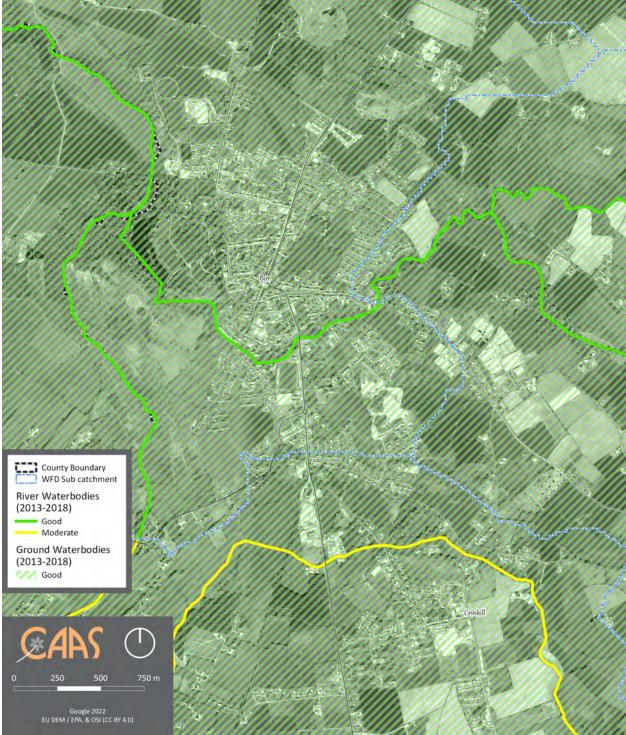


Figure 3.3 Surface Water Status (2013-2018)

### 3.7 Air and Climatic Factors

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.

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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, a number of Government Departments will be required to prepare sectoral adaptation plans in relation to a priority area that they are responsible for.

The Offaly Council Climate Change Adaptation Strategy 2019-2024 features a range of actions across sectors including: seafood, 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 Offaly County Council.

The EPA's (2021) Air Quality in Ireland 2020 identifies that:

- Air quality in Ireland is generally good however there are localised issues.
- Ireland was above the European Environment Agency reference level for polycyclic aromatic hydrocarbons (PAHs), a toxic chemical, at 4 monitoring sites due to the burning of solid fuel.
- Ireland was above World Health Organization (WHO) air quality guidelines for particulate matter (PM), sulphur dioxide (SO<sub>2</sub>) and ozone at 52 monitoring sites across the country.
- The travel restrictions imposed as a result of Covid-19 had a positive impact on air pollution in our urban areas with up to 50% reductions in traffic pollution. Levels of nitrogen dioxide (NO<sub>2</sub>) from transport emissions fell in 2020, however, if long-term changes are not made to modes or patterns of transport it will lead to future exceedances in the urban areas.

# 3.8 Material Assets

Other material assets, in addition to those referred to below, covered by the SEA include archaeological and architectural heritage (see Section 3.9) natural resources of economic value, such as water and air (see Sections 3.6 and 3.7).

#### Public Assets and Infrastructure

Public assets and infrastructure that have the potential to be impacted upon by the Plan, if unmitigated, include; the town of Birr; resources such as public open spaces, parks and recreational areas; public buildings and services; transport and utility infrastructure (electricity, gas, telecommunications, water supply, waste water infrastructure etc.); and natural resources that are covered under other topics such as water and soil.

#### Waste Water

The Waste Water Treatment Plant (WWTP) serving Birr is not currently listed as a priority area (such areas are those where improvements are required to resolve urgent environmental issues). The most recent figures available indicate that the loading capacity of the treatment plant is less than the design capacity, leaving spare treatment capacity. There are no major infrastructural constraints on the sewerage network within the town.<sup>5</sup>

#### Water Supply

Birr's drinking water is supplied by the Camcor River, with two abstraction points at Kinnitty and Springfield Bridge, Birr. The Irish Water 10-Year Water Supply Capacity Register (March 2022) identifies that there is sufficient water supply capacity available up to 2031.<sup>6</sup>

#### Waste Management

Waste management across County Offaly, including the Plan area, is guided by the Eastern and Midlands Region Waste Management Plan 2015-2021.

#### Transport

Birr occupies a location on the N52 and N62 national secondary roads and the R439, R440 and R489 regional roads also terminating in the town. Birr is also located between two major east-west transport corridors of the N6/M4 (Dublin to Galway) and the M7/N7 (Dublin to Limerick). Bus Éireann provides public transport services to the town, including the Athlone to Limerick service daily and private operators provide direct bus services to Dublin. Roscrea and Tullamore represent the nearest railway connections and as a result bus travel remains the primary form of public transport servicing the town. 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. A Local Transport Plan (LTP) has been integrated into the Plan to help ensure a shift towards more sustainable modes of transport.

#### **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.

Irish Water's Annual Environmental Report (2021)<sup>7</sup> for the WWTP identified that environmental performance was non-compliant with the Emission Limit Values set in the wastewater discharge licence as a result of a mechanical breakdown.

### 3.9 Cultural Heritage

#### Archaeological Heritage

A recorded monument is a monument included in the list and marked on the map which comprises the Record of Monuments and Places (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 currently 8 Zones of Archaeological Potential identified within Birr town, including an Urban Archaeology Zone<sup>8</sup>.

Clusters of protected monuments are located within the centre of the Plan area at Birr's historic core. There are various entries to the RMP within and around Birr, including: a site of Roman Catholic chapel; ecclesiastical site with remains of a church and a graveyard; a castle with a fortified house; a ritual site with St. Brendan's holy well; masonry bridge; sheela-na-gig; a market house; various mills; town defences and a prison.<sup>9</sup>

#### Architectural Heritage

Birr is a significant historic town due to the preservation and wealth of Georgian architecture in the town and it was designated a "Georgian Heritage Town" in 1994. The majority of buildings span from the mid-18<sup>th</sup> to early 19<sup>th</sup> centuries, including Emmet Square (1747), Oxmanstown Mall (c. 1816), Wilmer Road (c. 1817) and John's Mall (c. 1833).

There are many Protected Structures within the area coved by the Plan, including: castles; mills; churches; cemeteries; schools; and various buildings.

#### **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.

<sup>8</sup> Birr LAP 2023-2029

9 Offaly CDP 2021-2027

<sup>&</sup>lt;sup>7</sup> Available at: https://www.water.ie/wastewater/compliance/annual-environmental-repo/

### 3.10 Landscape

Birr is situated in the low-lying fertile valley of the Little Brosna River. Originally, the town developed to the south-east of the castle and within the bounds of a meander in the River Camcor, which flows through the centre of the town. The River Camcor joins the Little Brosna to the north-west of the town. Birr is centrally located to several tourist attractions and activities including Clonmacnoise, the Slieve Bloom Mountains and Lough Derg.

The amenities of the town consist of the built environment including ecclesiastical buildings and historical ruins, the riverside character and parklands. The majority of the area surrounding Birr consists of gently undulating pastures, agricultural lands and pockets of deciduous woodland and peat bogs on higher ground to the north.

A landscape's capacity to absorb new development, without exhibiting a significant alteration of character or change of appearance is referred to as it's 'sensitivity'. The sensitivity of the landscapes of County Offaly varies and is thereby classified within the following sensitivity classes: low; medium; and high. Birr and adjacent areas are mainly classified as being of 'low' landscape sensitivity, with an 'Archaeological and Historical Landscape' at and around Birr Castle and various eskers classified as being of 'moderate' sensitivity.

The existing Offaly County Development Plan 2021-2027 also identifies Areas of High Amenity (including in the north and south of Birr) and Key Amenity Routes (including "R440 Birr to Kinnitty") and a number of views and prospects within the County Council's administrative area.

Birr Castle Demesne, in addition to being home to significant tracts of woodland and wild flower meadows in an extensive 18<sup>th</sup> and 19<sup>th</sup> century parklands setting, contains award-winning gardens, which are home to the world's tallest box hedges and have a worldwide plant collection of rare flower and plant species, including over 40 champion trees. Champion trees are individual trees that are exceptional examples of their species because of their enormous size, great age or historical significance.<sup>10</sup>

#### **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.

### 3.11 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 (see Table 3.1) 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.

	able 3.1 Strategic Environmental Objectives					
Environmental Component	SEO Code	Guiding Principle	Strategic Environmental Objectives			
Biodiversity, Flora and Fauna	BFF	No net contribution to biodiversity losses or deterioration	<ul> <li>To preserve, protect, maintain and, where appropriate, enhance the terrestrial, aquatic and soil biodiversity, particularly EU designated sites and protected species</li> <li>Ensure no adverse effects on the integrity of any European site, with regard to its qualifying interests, associated conservation status, structure and function</li> <li>Safeguard national, regional and local designated sites and supporting features which function as stepping stones for migration, dispersal and genetic exchange of wild species</li> <li>Enhance biodiversity in line with the National Biodiversity Strategy and its targets</li> <li>To protect, maintain and conserve natural capital</li> </ul>			
Population and Human Health	РНН	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> <li>Promote economic growth to encourage retention of working age population and funding of sustainable development and environmental protection and management</li> <li>Ensure that existing population and planned growth is matched with the required public infrastructure and the required services</li> <li>Safeguard citizens from environment-related pressures and risks to health and well-being</li> </ul>			
Soil (and Land)	S	Ensure the long-term sustainable management of land	<ul> <li>Protect soils against pollution, and prevent degradation of the soil resource</li> <li>Promote the sustainable use of infill and brownfield sites over the use of greenfield sites</li> <li>Safeguard areas of prime agricultural land and designated geological sites</li> </ul>			
Water	W	Protection, improvement and sustainable management of the water resource	<ul> <li>Ensure that the status of water bodies is protected, maintained and improved in line with the requirements of the Water Framework Directive</li> <li>Ensure water resources are sustainably managed to deliver proposed regional and County growth targets in the context of existing and projected water supply and waste water capacity constraints ensuring the protection of receiving environments</li> <li>Avoid inappropriate zoning and development in areas at risk of flooding and areas that are vulnerable to current and future erosion</li> <li>Integrate sustainable water management solutions (such as SuDS, porous surfacing and green roofs) into development proposals</li> </ul>			
Material Assets	MA	Sustainable and efficient use of natural resources	<ul> <li>Optimise existing infrastructure and provide new infrastructure to match population distribution proposals</li> <li>Ensure access to affordable, reliable, sustainable and modern energy for all which encourages a broad energy generation mix to ensure security of supply</li> <li>Promote the circular economy, reduce waste, and increase energy efficiencies</li> <li>Ensure there is adequate sewerage and drainage infrastructure in place to support new development</li> <li>Reduce the energy demand from the transport sector and support moves to electrification of road and rail transport modes</li> <li>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</li> </ul>			
Air	A	Support clean air policies that reduce the impact of air pollution on the environment and public health	<ul> <li>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.</li> <li>Maintain and promote continuing improvement in air quality through the reduction of emissions and promotion of renewable energy and energy efficiency.</li> <li>Promote continuing improvement in air quality.</li> <li>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</li> <li>Meet Air Quality Directive standards for the protection of human health — Air Quality Directive</li> <li>Significantly decrease noise pollution by 2020 and move closer to WHO recommended levels.</li> </ul>			
Climatic Factors	c	Achieving transition to a competitive, low carbon, climate- resilient economy that is cognisant of environmental impacts	<ul> <li>To minimise emissions of greenhouse gasses.</li> <li>Integrate sustainable design solutions into infrastructure (e.g. energy efficient buildings; green infrastructure).</li> <li>Contribute towards the reduction of greenhouse gas emissions in line with national targets.</li> <li>Promote development resilient to the effects of climate change</li> <li>Promote the use of renewable energy, energy efficient development and increased use of public transport</li> </ul>			
Cultural Heritage	СН	Safeguard cultural heritage features and their settings through responsible design and positioning of development	<ul> <li>Protect places, features, buildings and landscapes of cultural, archaeological or architectural heritage</li> </ul>			
Landscape	L	Protect and enhance the landscape character	<ul> <li>To implement the Plan's framework for identification, assessment, protection, management and planning of landscapes having regard to the European Landscape Convention</li> </ul>			

# Section 4 Alternatives

### 4.1 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. Summaries of the alternatives for the Plan and their assessment are provided below.

### 4.2 Limitations in Available Alternatives

The Plan is required to be prepared by the existing, already in force, Offaly County Development Plan 2021-2027 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 significantly limited by the provisions of higher-level planning objectives, including those of the National Planning Framework (NPF), the Regional Spatial and Economic Strategy (RSES) for the Eastern and Midland Region and the County 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.

### 4.3 Tier 1: Alternatives Already Considered

Significant alternatives in relation to land use zoning have already been considered by the Offaly County Development Plan 2021-2027 preparation process and associated SEA. The Council selected the alternatives for Birr that were least likely to cause adverse environmental impacts and most likely to contribute towards sustainable development and environmental protection and management. A "More Compact" alternative was selected for new residential zoning (as opposed to a "Less Compact" alternative).

By not consolidating land use zoning and including unnecessary land use zoning, the "less compact" form of development alternative would fail to maximise benefits from infrastructural investment. By facilitating the unnecessary sprawl of the settlement and failing to consolidate zoning, this alternative would decrease the likelihood of brownfield development and conflict with efforts to improve sustainable mobility (with associated effects on energy, air, noise and human health). Providing for unnecessary zoning would be likely to result in higher levels of sprawl and associated avoidable potential adverse environmental effects. By consolidating land use zoning and reducing unnecessary land use zoning, the "more compact" would provide for a more compact form of development that would help to maximise benefits from infrastructural investment. By consolidating the zoning and helping to avoid unnecessary sprawl of the settlement, this alternative would increase the likelihood of brownfield development and contribute towards efforts to improve sustainable mobility (with associated effects on energy, air, noise and human health). Reducing unnecessary zoning would help to maximise benefits from infrastructural investment. By consolidating the zoning and helping to avoid unnecessary sprawl of the settlement, this alternative would increase the likelihood of brownfield development and contribute towards efforts to improve sustainable mobility (with associated effects on energy, air, noise and human health). Reducing unnecessary zoning would help to minimise sprawl and would avoid potential adverse environmental effects that would otherwise occur - this would benefit the protection of multiple environmental components.

Furthermore, an alternative providing for a Green belt between Crinkill Village and Birr Town, Alternative A, (as opposed to non-provision of same, Alternative B) was selected. A green belt between Crinkill would facilitate the protection of the character of Crinkill village mature trees (some of which are the subject of Tree Preservation Orders), non-designated biodiversity, an Esker between Crinkill and Birr Town which has been previously identified as an Area of High Amenity and the context of various structures of architectural value. The absence of a greenbelt would facilitate sprawl from the south of Birr town, and associated effects, and impacts upon the aforementioned sensitivities.

The Local Area Plan is consistent with and supports these selected alternatives for Birr.

# 4.4 Tier 2: Alternatives for Serviced/Serviceable Land and Infrastructure Assessment

Alternative A: A Plan prepared using a Serviced/Serviceable Land and Infrastructure Assessment approach

The 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. This approach would benefit the protection of various environmental components. Although potentially adverse effects associated with land use development would exist, they would be mitigated to a significant degree.

Alternative B: A Plan prepared not using a Serviced/Serviceable Land and Infrastructure Assessment approach

By not following a 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. An opportunity to mitigate potentially adverse effects arising from land use development to a significant degree would have been missed.

#### Selected Alternative: Alternative A

### 4.5 Tier 3: Alternatives for Transport

#### Tier 3 (i) How to provide cycling and walking capacity in Birr

The provision of new additional cycling and walking capacity exclusively along existing roads infrastructure (Alternative A) would be likely to reduce potential for meeting important objectives relating to emissions/energy objectives. Using exclusively existing infrastructure would reduce related environmental conflicts (e.g. with respect to water quality, biodiversity) as well as operational conflicts (e.g. with respect to ecological connectivity).

The provision of new additional cycling and walking capacity exclusively along new walking and cycling routes (Alternative B) would be likely to reduce potential for meeting important objectives relating to emissions/energy objectives. Using exclusively new infrastructure would increase potential construction related environmental conflicts (e.g. with respect to water quality, biodiversity) as well as operational conflicts (e.g. with respect to ecological connectivity).

The provision of new additional cycling and walking capacity across a mixture of along existing roads infrastructure and on new walking and cycling routes (Alternative C) would be likely to provide the greatest potential for meeting important objectives relating to emissions/energy objectives. Using a mixture of new and existing infrastructure would provide a moderate level of potential construction related environmental conflicts (e.g. with respect to water quality, biodiversity) as well as operational conflicts (e.g. with respect to ecological connectivity). Where conflicts arising from the development of new infrastructure would be greatest, existing infrastructure could be examined to see if it could be upgraded to provide additional capacity.

#### Selected Alternative: Alternative C

#### Tier 3 (ii) How to provide cycling and walking capacity along river

The provision of new cycling and walking infrastructure along the river, with all additional environmental mitigation left to be defined until project level (Alternative A) 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 getting permission.

Specifying environmental constraints (including those related to habitats and potential impacts such as disturbance from lighting – e.g. minimising river crossings, avoiding sensitive habitats, not increasing

barriers to flood waters and sustainable design and construction techniques) at Plan level (Alternative B) 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.

#### Selected Alternative: Alternative B

#### Tier 3 (ii) Where to provide cycling hubs/parks

The provision of new cycling hubs/parks at optimum locations as identified by the Local Transport Plan, with all additional environmental mitigation left to be defined until project level (Alternative A) 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/energy objectives) not getting permission.

Specifying environmental constraints (including those related to habitats and potential impacts such as disturbance from lighting – e.g. minimising river crossings, avoiding sensitive habitats, not increasing barriers to flood waters and sustainable design and construction techniques) at Plan level (Alternative B) 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 objectives) receiving permission.

#### Selected Alternative: Alternative B

### 4.6 Tier 4: Alternatives for Wetland

Tier 4 considers facilitating the potential development of a Wetland to the West of the Town. Alternative A would extend the Plan boundary contained in the County Development Plan and zone for the development of the wetland while Alternative B would not extend the Plan boundary contained in the County Development Plan and zone for the development of the wetland.

There is considerable potential to develop wetlands near the rivers that flow through the Plan Area to provide extra water storage in the countryside, habitat for wildlife and help reduce flood risk. Wetlands have been shown to be effective at removing pollutants from water and can double up as nature reserves as they attract a range of wildlife species. In addition, constructed wetlands can be used in the treatment of polluted water which otherwise may contaminate a local watercourse. They can be used where water treatment has not been fully effective, for a variety of reasons, (e.g., where tertiary treatment is not available) and can 'polish' the water by removing contaminants. Small ponds can also be crucial habitats for a range of wildlife from dragonflies and water hens to frogs and newts. These in turn, support other species of wildlife such as grey heron, otters and bats. The construction of a wetland would present potential environmental conflicts during construction that would not otherwise exist. These conflicts could be mitigated by normal planning processes.

#### Selected Alternative: Alternative A

### 4.7 Selected Alternatives

Selected alternatives for the Plan from each of the four tiers of alternatives that emerged from the planning/SEA process are indicated above.

These alternatives have been adopted by the Members having regard to both:

- 1. The environmental effects which were identified by the SEA and are summarised above; and
- 2. Planning including social and economic effects that also were considered by the Members.

# Section 5 Summary of Effects arising from Plan

Table 5.1 summarises the overall environmental effects arising from Plan provisions. 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 Offaly County Development Plan 2021-2027 – see Section 6. Note that one recommendation was not integrated – see details on following page.

Environmental impacts which occur will be determined by the nature and extent of multiple or individual projects and site-specific environmental factors. 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 3.1.

Stage 2 Appropriate Assessment (AA) has been undertaken alongside the preparation of the Plan. The requirement for AA is provided under the EU Habitats Directive (Directive 1992/43/EEC). The AA assesses the effects of the Plan on European Sites designated for certain habitats and species. The conclusion of the AA is that the Plan will not affect the integrity of the Natura 2000 network<sup>11</sup>.

A Strategic Flood Risk Assessment (SFRA) document accompanies this document and the Plan. Requirements in relation to SFRA 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 and drainage related provisions have been integrated into the LAP. Land use zonings are already in force through the County Development Plan and are reproduced in the LAP. In addition, the land use zoning map in the LAP, corrects a number of relatively minor anomalies. The detailed County Development Plan preparation process undertaken by the Planning Department combined with specialist input from the SFRA process for the County Plan facilitated zoning that avoids inappropriate development being permitted in areas of high flood risk.

<sup>&</sup>lt;sup>11</sup> Except as provided for in Article 6(4) of the Habitats Directive, viz. There must be:

<sup>(</sup>a) no alternative solution available;

<sup>(</sup>b) imperative reasons of overriding public interest for the plan/programme/project to proceed; and

<sup>(</sup>c) adequate compensatory measures in place.

CAAS for Offaly County Council

# Instance whereby an Environmental Assessment Recommendation was not integrated into the Plan

All environmental assessment (SEA, AA and SFRA) recommendations were integrated into the Plan, except the addition of the **bold text** below to LUZO-13 "Land Use Zoning Objective – Constrained Land Uses".

"Facilitate the appropriate management and sustainable use of flood risk areas designated as 'Constrained Land Use' in the zoning map in accordance with the provisions of the Planning System and Flood Risk Management Guidelines for Planning Authorities (2009), as amended, in consultation with the OPW." New development will generally be limited to water-compatible uses in Flood Zone A, and less vulnerable or water compatible uses in Flood Zone B, and a detailed SSFRA will be required in these areas.

#### Footnote:

For example, at undeveloped Enterprise and Employment lands in the south of the town to the west of the N62 (marked \* on Map X) new development will be limited to water-compatible uses in Flood Zone A.

The planning reasons for the Members not agreeing to the insertion of the bold text above into the Plan was that the **bold text** above is sufficiently addressed in other sections of the Local Area Plan and the County Development Plan, including as follows:

• Local Area Plan Table 11.1 "Land Use Zoning Matrix"

"Note that new Permitted in Principle /Open for Consideration uses under 'Enterprise and Employment' Zoning in Flood Zone A or B shall be limited to lessvulnerable and/or water compatible uses (as per the Flood Risk Management Guidelines). This requirement will take primacy over any related provision relating to the land use zoning matrix."

• Local Area Plan Section 8.4.2 "Flood Risk Management"

"Development Management Standard 106 from Chapter 13 Development Management Standards of the Offaly County Development Plan 2021-2027 shall apply to proposals located on lands designated Constrained Land Use in the Local Plan Area."

• County Development Plan Development Management Standard 106 includes details from the Flood Risk Management Guidelines on what types of uses are appropriate in each Flood Zone and details on requirements in relation to Site-specific Flood Risk Assessments.

# SEA Environmental Report Appendix II: Non-Technical Summary Table 5.1 Overall Findings – Environmental Effects arising from Plan Provisions

Environmental Component	Effects include in-combination effects that are planned for through the wider planning framework including the NPF and associated NDP, the Eastern and Midland RSES, the Offaly County Development Plan 2021-2027 and 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	
Biodiversity and Flora and Fauna	<ul> <li>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.</li> <li>Contribution towards the maintenance of existing green infrastructure and associated ecosystem services, listed species, ecological connectivity and non-designated habitats.</li> <li>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, 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.</li> <li>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.</li> </ul>	<ul> <li>Arising from both construction and operation of development and associated infrastructure:</li> <li>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;</li> <li>Habitat loss, fragmentation and deterioration, including patch size and edge effects; and</li> <li>Disturbance (e.g. due to noise and lighting along transport corridors) and displacement of protected species such as birds and bats.</li> </ul>	<ul> <li>Loss of an extent of non-protected habitats and species arising from the replacement of semi-natural land covers with artificial surfaces.</li> <li>Losses or damage to ecology (these would be in compliance with relevant legislation).</li> </ul>	BFF

		nental Report Appendix II: Non-Technical Summary		
Environmental		tal Effects, in combination with the wider planning framewo		SEO
Component	Effects include in-combination effects that are planned for through	gh the wider planning framework including the NPF and associated NDP 2018,	the Eastern and Midland RSES, adjacent	Codes
	Cimplificant Desitive Effect likely to serve	Development Plans and lower-tier land use plans.	Likely Desidual Advance New	-
	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated	Likely Residual Adverse Non- Significant Effects	
Population	Promotion of economic growth to encourage retention	Potential adverse effects arising from flood events.	Potential interactions with	РНН
and Human	of working age population and funding of sustainable	<ul> <li>Potential interactions if effects arising from environmental</li> </ul>	residual effects on	
Health	development and environmental protection and	vectors.	environmental vectors – please	
	management.		refer to residual adverse effects	
	Contribution towards appropriate provision of		under "Soil", "Water" and "Air	
	infrastructure and services to existing population and		and Climatic Factors" below.	
	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> <li>Contributes towards protection of human health as a</li> </ul>			
	result of contributing towards the protection of natural			
	capital including environmental vectors, including air			
	and water.			
Soil	Contribution towards the protection of soils (including	Potential adverse effects on the hydrogeological and	Loss of an extent of soil	S
	those used for agriculture) and designated sites of	ecological function of the soil resource, including as a result of	function arising from the	
	geological heritage by facilitating development of	development on contaminated lands.	replacement of semi-natural	
	lands (including those within and adjacent to the Plan	Potential for riverbank erosion.	land covers with artificial	
	area) that have relatively low levels of environmental		surfaces.	
	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.			
	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.			

#### SEA Environmental Report Appendix II: Non-Technical Summary

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Environmental Component					
	Significant Positive Effect, likely to occur	Potentially Significant Adverse Environmental Effects, if unmitigated	Likely Residual Adverse Non- Significant Effects	1	
Water	<ul> <li>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.</li> <li>Contributions towards the protection of water resources including the status of surface and groundwaters and water-based designations.</li> <li>Contribution towards flood risk management and appropriate drainage.</li> </ul>	<ul> <li>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.</li> <li>Increase in flood risk and associated effects associated with flood events.</li> </ul>	<ul> <li>Any increased loadings as a result of development to comply with the River Basin Management Plan.</li> <li>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.</li> </ul>	w	
Material Assets	<ul> <li>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.</li> <li>Contribution towards compliance with national and regional water services and waste management policies.</li> <li>Contribution towards increase in renewable energy use by facilitating renewable energy and electricity transmission infrastructure developments.</li> <li>Contribution towards limits in increases in energy demand from the transport sector by facilitating sustainable compact growth.</li> <li>Contribution towards reductions in average energy efficient buildings, retrofitting, smart buildings, cities and grids.</li> </ul>	<ul> <li>Failure to provide adequate and appropriate waste water treatment (water services infrastructure and capacity ensures the mitigation of potential conflicts).</li> <li>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).</li> <li>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).</li> <li>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).</li> <li>Increases in waste levels.</li> <li>Potential impacts upon public assets and infrastructure.</li> <li>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.</li> </ul>	<ul> <li>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.</li> <li>Residual wastes to be disposed of in line with higher-level waste management policies.</li> <li>Any impacts upon public assets and infrastructure to comply with statutory planning/consent-granting framework.</li> </ul>	MA	

SEA Environmental Report Appendix II: Non-Technical Summary	SEA	Environmental	Report Appendix	II: Non-	Technical	Summary	
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Environmental						
Component		the wider planning framework including the NPF and associated NDP 2018, t Development Plans and lower-tier land use plans.		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> <li>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-serviced lands elsewhere in the Plan area and beyond.</li> <li>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> <li>Sustainable compact growth;</li> <li>Sustainable mobility, including walking, cycling and public transport;</li> <li>Drainage, flood risk management and resilience;</li> <li>Sustainable infrastructure design solutions including energy efficient buildings; green infrastructure).</li> </ul> </li> </ul>	<ul> <li>Potential conflict between development under the Plan and aiming to reduce carbon emissions in line with local, national and European environmental objectives.</li> <li>Potential conflicts between transport emissions, including those from cars, and air quality.</li> <li>Potential conflicts between increased frequency of noise emissions and protection of sensitive receptors.</li> <li>Potential conflicts with climate adaptation measures including those relating to flood risk management.</li> </ul>	<ul> <li>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.</li> <li>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.</li> </ul>	AC		
Cultural Heritage	<ul> <li>Contributes towards protection of cultural heritage elsewhere by facilitating development within the Plan area.</li> <li>Contributes towards protection of cultural heritage within the Plan area by facilitating brownfield development and regeneration.</li> </ul>	<ul> <li>Potential effects on protected and unknown archaeology and protected architecture arising from construction and operation activities.</li> </ul>	<ul> <li>Potential effects on known architectural and archaeological heritage and unknown archaeology however, these will occur in compliance with legislation.</li> </ul>	СН		
Landscape	<ul> <li>Contributes towards protection of wider landscape and landscape designations by facilitating development within the Plan area.</li> </ul>	<ul> <li>Occurrence of adverse visual impacts and conflicts with the appropriate protection of designations relating to the landscape.</li> </ul>	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		

# Section 6 Mitigation and Monitoring Measures

### 6.1 Mitigation

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. By integrating recommendations into the Plan, the Council have ensured that both the beneficial environmental effects of implementing the Plan have been and will be maximised and that potential adverse effects have been and will be avoided, reduced or offset. Note that one recommendation was not integrated – see Section 5 of this Non-Technical Summary.

Mitigation was achieved through the:

- Strategic work undertaken by the Council to ensure contribution towards environmental protection and sustainable development<sup>12</sup>;
- Considering alternatives for the Plan<sup>13</sup>;
- Integration of environmental considerations into zoning provisions of the Plan<sup>14</sup>;
- Integration of individual SEA, AA and SFRA provisions into the text of the Plan; and
- Integration of individual provisions into the text of the County Development Plan.

### 6.2 Monitoring

The SEA Directive requires that the significant environmental effects of the implementation of plans and programmes are monitored. Monitoring is based around indicators that allow quantitative measures of trends and progress over time relating to the Strategic Environmental Objectives identified at Table 3.1 and used in the evaluation. Monitoring indicators, targets, sources and remedial action is provided at Table 6.1 overleaf.

- Birr Local Transport Plan;
- Birr Public Realm Study;
- Rectory Lands Masterplan; and

<sup>&</sup>lt;sup>12</sup> Far in advance of the placing of the Draft Plan on public display, Offaly County Council undertook various works in order to inform the preparation of the Plan.

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 following Birr specific non-statutory plans and studies were taken into account in the preparation of the LAP:

Birr Interpretive Strategy, A Unique Heritage Vision, 2021.

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

<sup>&</sup>lt;sup>13</sup> Although strategic alternatives in relation to the content of the Plan were significantly limited for the Plan (see Section 4), 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 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 and placed on public display.
<sup>14</sup> Environmental considerations were already integrated into the Local Area Plan's zoning through an interdisciplinary approach followed in the test of the plan.

<sup>&</sup>lt;sup>14</sup> Environmental considerations were already integrated into the Local Area Plan's zoning through an interdisciplinary approach followed in the preparation of the Offaly County Development Plan 2021-2027 which was subject to its own SEA (land use zonings are already in force through the County Development Plan and are reproduced in the LAP, subject to the correction of a number of relatively minor anomalies). Zoning from the County Development Plan 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 and Eastern and Midland RSES. The detailed County Development Plan preparation process undertaken by the Planning Department combined with specialist input from the SFRA process for the County Plan facilitated zoning that avoids 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, as well as the overlay mapping of environmental sensitivities.

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Table 6.1 Indicators, Targets, Sources and Remedial Action<sup>15</sup>

Environmental	SEO	Indicators	Targets	Sources	Remedial Action
Component	Code		5		
Biodiversity, Flora and Fauna	BFF	<ul> <li>Condition of European sites</li> <li>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</li> <li>SEA and AA as relevant for new Council policies, plans, programmes etc.</li> <li>Status of water quality in the County's water bodies</li> <li>Compliance of planning permissions with Plan measures providing for the protection of Biodiversity and flora and fauna – see County Development Plan Chapter 4 "Biodiversity and Green Infrastructure"</li> </ul>	<ul> <li>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</li> <li>Implement and review, as relevant, the Biodiversity Plan for Offaly as incorporated into the Offaly Heritage Plan 2017-21</li> <li>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 County Development Plan Chapter 4 "Biodiversity and Green Infrastructure"</li> </ul>	<ul> <li>Department of Housing, Local Government and Heritage report of the implementation of the measures contained in the Habitats Directive - as required by Article 17 of the Directive (every 6 years).</li> <li>Department of Housing, Local Government and Heritage National Monitoring Report for the Birds Directive under Article 12 (every 6 years)</li> <li>Internal monitoring of preparation of local land use plans</li> <li>Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)<sup>16</sup></li> <li>Consultations with the NPWS (at monitoring evaluation)</li> </ul>	<ul> <li>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.</li> <li>Where water bodies are failing to meet at least good status this will be investigated with the DHLGH Water Section, the Regional Assembly, the EPA Catchment Unit and, as relevant, Irish Water 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.</li> </ul>
Population and Human Health	РНН	<ul> <li>Implementation of Plan measures relating to the promotion of economic growth as provided for by County Development Plan Chapter 5 "Economic Development Strategy" and Local Area Plan Chapter 2 "Economic Development Strategy"</li> <li>Number of spatial concentrations of health problems arising from environmental factors resulting from development permitted under the Plan</li> <li>Proportion of people reporting regular cycling / walking to school and work above 2016 CSO figures</li> <li>Number of spatial plans that include specific green infrastructure mapping</li> </ul>	<ul> <li>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 County Development Plan Chapter 5 "Economic Development Strategy" and Local Area Plan Chapter 2 "Economic Development Strategy"</li> <li>No spatial concentrations of health problems arising from environmental factors as a result of implementing the Plan</li> <li>Increase in the proportion of people reporting regular cycling / walking to school and work above 2016 CSO figures.</li> <li>Implementation of Green Infrastructure</li> </ul>	<ul> <li>Internal review of progress on implementing Plan objectives</li> <li>Consultations with the Health Service Executive and EPA</li> <li>CSO data</li> <li>Internal monitoring of preparation of local land use plans</li> </ul>	<ul> <li>Where planning applications in key growth towns are rejected due to insufficient capacity in the waste water treatment plant or failure of the waste water treatment plant to meet Emission Limit Values, the Council will contribute towards a response with the Regional Assembly, EPA and Irish Water to achieve the necessary capacity.</li> <li>Where proportion of population shows increase in private car use above CSO 2016 figures, the Council will coordinate with the Regional Assembly, the DHLGH, DECC and NTA to develop a tailored response.</li> </ul>
Soil (and Land)	S	<ul> <li>Proportion of population growth occurring on infill and brownfield lands compared to greenfield</li> <li>Volume of contaminated material generated from brownfield and infill</li> <li>Number of AA determinations and environmental assessments</li> </ul>	<ul> <li>Maintain built surface cover nationally to below the EU average of 4% as per the NPF.</li> <li>Achieve the 40% target for growth on infill as per the NPF.</li> </ul>	<ul> <li>Environmental Protection Agency (EPA), Geoportal</li> <li>Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)</li> </ul>	<ul> <li>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.</li> </ul>

 <sup>&</sup>lt;sup>15</sup> Indicators are linked to and should be considered alongside the environmental effects outlined in Table 8.3 and proposed mitigation measures outlined in Table 9.1.
 <sup>16</sup> Including confirmation with development management that the following impacts have been considered and including use of monitoring data, where available: habitat loss; disturbance (e.g. due to noise and lighting along transport corridors, such as along the Camcor River)' and 'displacement of protected species such as birds and bats.

Environmental	SEO	Indicators	EA Environmental Report Appendix II: Non-T Targets	Sources	Remedial Action
Component	Code	undertaken to support applications for brownfield and infill development			
Water	W	<ul> <li>prior to planning permission</li> <li>Status of water bodies as reported by the EPA Water Monitoring Programme for the WFD</li> <li>Number of incompatible developments permitted within flood risk areas</li> </ul>	<ul> <li>Not to cause deterioration in the status of any surface water or affect the ability of any surface water to achieve 'good status'</li> <li>Implementation of the objectives of the second cycle of the River Basin Management Plan (and subsequent iterations as relevant)</li> <li>Minimise developments granted permission on lands which pose - or are likely to pose in the future - a significant flood risk</li> </ul>	<ul> <li>EPA Monitoring Programme for WFD compliance</li> <li>Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)</li> </ul>	<ul> <li>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, Irish Water 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.</li> <li>Where planning applications in key growth towns are rejected due to insufficient capacity in the Waste water treatment Plant or failure of the plant to meet Emission Limit Values, the Eastern and Midland Regional Assembly will coordinate a response between the relevant local authority, EPA and Irish Water to achieve the necessary capacity.</li> <li>The Council will engage, as relevant, with the Eastern and Midland Regional Assembly and the OPW with respect to planning applications for development in areas of elevated flood risk.</li> </ul>
Material Assets	MA	<ul> <li>Programmed delivery of Irish Water infrastructure for all key growth towns in line with Irish Water Investment Plan and prioritisation programme to ensure sustainable growth can be accommodated</li> <li>Number of new developments granted permission which can be adequately and appropriately served with waste water treatment over the lifetime of the Plan</li> <li>Proportion of population within who report regular cycling / walking to school and work above 2016 CSO figures</li> </ul>	<ul> <li>To map brownfield and infill land parcels across the County.</li> <li>All new developments granted permission to be connected to and adequately and appropriately served by waste water treatment over the lifetime of the Plan</li> <li>Where septic tanks are proposed, for planning permission to be only granted when applications demonstrate that the outfall from the septic tank will not – incombination with other septic tanks-contribute towards any surface or ground water body not meeting the objective of good status under the Water Framework Directive</li> <li>Increased budget spends on water and waste water infrastructure</li> <li>By 2020 all citizens will have access to speeds of 30Mbps, and that 50% of citizens will be subscribing to speeds of 100Mbps</li> </ul>	<ul> <li>Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)</li> <li>CSO data</li> <li>Consultations with Irish Water (at monitoring evaluation)</li> <li>Department of Housing, Planning and Local Government in conjunction with Local Authorities</li> <li>Department of Communications, Climate Action and Environment</li> <li>Department of Public Expenditure and Reform</li> </ul>	<ul> <li>Where planning applications in key growth towns are rejected due to insufficient capacity in the waste water treatment plant or failure of the waste water treatment plant to meet Emission Limit Values, the Council will coordinate a response between the Regional Assembly, EPA and Irish Water to achieve the necessary capacity.</li> <li>Where proportion of population shows increase in private car use above CSO 2016 figures, the Council will coordinate with the Regional Assembly, DHLGH and NTA to develop a tailored response.</li> </ul>

Environmental	SEO	Indicators	EA Environmental Report Appendix II: Non-I Targets	Sources	Remedial Action
Component Air	A	<ul> <li>Proportion of journeys made by private fossil fuel-based car compared to 2016 National Travel Survey levels of 74%</li> <li>NO<sub>x</sub>, SO<sub>x</sub>, PM10 and PM2.5 as part of Ambient Air Quality Monitoring</li> </ul>	<ul> <li>Decrease in proportion of journeys made by private fossil fuel-based car compared to 2016 National Travel Survey levels.</li> <li>Improvement in Air Quality trends, particularly in relation to transport related emissions of NO<sub>x</sub> and particulate matter</li> </ul>	<ul> <li>CSO data</li> <li>Data from the National Travel Survey</li> <li>EPA Air Quality Monitoring</li> <li>Consultations with Department of Transport Tourism and Sport, Transport Trends and Department of Communication Climate Action and Environment (at monitoring evaluation)</li> </ul>	Where proportion of population shows increase in private car use above CSO 2016 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 Factors	C	<ul> <li>Implementation of Plan measures relating to climate reduction targets as provided for by Plan provisions including those provided for and referenced in County Development Plan Chapter 3 "Climate Action and Energy" and Local Area Plan Chapter 8"Climate Action"</li> <li>Proportion of journeys made by private fossil fuel-based car compared to 2016 levels</li> <li>Proportion of people reporting regular cycling / walking to school and work above 2016 CSO figures</li> </ul>	<ul> <li>For review of progress on implementing Plan objectives to demonstrate successful implementation of measures climate reduction targets as provided for by Plan provisions including those provided for and referenced in County Development Plan Chapter 3 "Climate Action and Energy" and Local Area Plan Chapter 8"Climate Action"</li> <li>Increase in the proportion of people resident in the County reporting regular cycling / walking to school and work above 2016 CSO figures</li> <li>Decrease in the proportion of journeys made by residents of the County using private fossil fuel-based car compared to 2016 levels</li> <li>Contribute towards transition to a competitive, low-carbon, climate-resilient and environmentally sustainable economy by 2050</li> <li>Contribute towards the target of the Renewable Energy Directive (2009/28/EC), for all Member States to reach a 10% share of renewable energy in transport by 2020</li> <li>Contribute towards the target of aggregate reduction in carbon dioxide (CO<sub>2</sub>) emissions of at least 80% (compared to 1990 levels) by 2050 across the electricity generation, built environment and transport sectors</li> <li>To promote reduced energy consumption and support the uptake of renewable options and a move away from solid fuels for residential heating</li> </ul>	<ul> <li>EPA Annual National Greenhouse Gas Emissions Inventory reporting</li> <li>Climate Action Regional Office</li> <li>Consultations with Department of Communication Climate Action and Environment (at monitoring evaluation)</li> <li>CSO data</li> </ul>	<ul> <li>Where trends toward carbon reduction are not recorded, the Council will liaise with the Regional Assembly to establish reasons and develop solutions</li> <li>Where proportion of population shows increase in private car use above CSO 2016 figures, the Council will coordinate with the Regional Assembly, DHLGH and NTA to develop a tailored response</li> </ul>

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Environmental	SEO	Indicators	Targets	Sources	Remedial Action
Component	Code				
Cultural	СН	<ul> <li>Percentage of entries to the Record</li> </ul>	<ul> <li>Protect entries to the Record of Monuments</li> </ul>	<ul> <li>Internal monitoring of likely</li> </ul>	<ul> <li>Where monitoring reveals visitor or</li> </ul>
Heritage		of Monuments and Places, and the	and Places, and the context of these entries	significant environmental effects of	development pressure is causing negative
		context these entries within the	within the surrounding landscape where	grants of permission (grant by	effects on designated archaeological or
		surrounding landscape where	relevant, from adverse effects resulting	grant)	architectural heritage, the Council will
		relevant, protected from adverse	from development which is granted	<ul> <li>Consultation with Department of</li> </ul>	work with the Regional Assembly, Fáilte
		effects resulting from development	permission under the Plan	Housing, Local Government and	Ireland and the National Monuments
		which is granted permission under	<ul> <li>Protect entries to the Record of Protected</li> </ul>	Heritage (at monitoring	Service and other stakeholders, as
		the Plan	Structures and Architectural Conservation	evaluation).	relevant, to address pressures through
		<ul> <li>Percentage of entries to the Record</li> </ul>	Areas and their context from significant		additional mitigation
		of Protected Structures and	adverse effects arising from new		
		Architectural Conservation Areas and	development granted permission under the		
		their context protected from	Plan		
		significant adverse effects arising			
		from new development granted			
		permission under the Plan			
Landscape	L	<ul> <li>Number of developments permitted</li> </ul>	No developments permitted which result in	<ul> <li>Internal monitoring of likely</li> </ul>	<ul> <li>Where monitoring reveals developments</li> </ul>
-		which result in avoidable adverse	avoidable adverse visual impacts on the	significant environmental effects of	permitted which result in avoidable
		visual impacts on the landscape,	landscape, especially with regard to	grants of permission (grant by	adverse visual impacts on the landscape,
		especially with regard to landscape	landscape and amenity designations	grant)	the Council will re-examine Plan
		and amenity designations included in	included in Land Use Plans, resulting from		provisions and the effectiveness of their
		Land Use Plans, resulting from	development which is granted permission		implementation
		development which is granted	under the Plan		
		permission under the Plan	<ul> <li>To seek to align with the National</li> </ul>		
			Landscape Strategy		

#### SEA Environmental Report Appendix II: Non-Technical Summary