# STAGE 1: SCREENING FOR APPROPRIATE ASSESSMENT

PURSUANT TO ARTICLE 6 (3) OF THE HABITATS DIRECTIVE 92/43/EEC ON PLANS & PROJECTS SIGNIFICANTLY AFFECTING NATURA 2000 SITES.

Plan or Project:

**DRAFT CAVAN COUNTY DEVELOPMENT PLAN (2014 – 2020)** 

On behalf of:

**CAVAN COUNTY COUNCIL** 

**AUGUST 2013** 



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#### STAGE ONE: SCREENING

#### 1.0 INTRODUCTION

# 1.1 Requirement for Appropriate Assessment (AA)

This Screening for Appropriate Assessment was prepared by Ecologists Ireland on behalf of Cavan County Council. It provides information on the potential for the proposed Draft Cavan County Development Plan 2014 – 2020 to impact on designated sites of conservation importance within a European context.

This document is a draft version of the Screening for Appropriate Assessment and is submitted for consideration alongside the Draft Cavan County Development Plan 2014 – 2020 and serves as a documented record of the process and objective criteria used to determine whether the plan poses any risks of having significant effects on Natura 2000 sites in view of their conservation objectives.

In accordance with the Planning and Development (Amendment) Act 2010, Cavan County Council is required to develop a County Development Plan and incorporate within that a Core Strategy. The purpose of the Core Strategy is to formulate a plan to meet the housing land use requirements within the County for the period of the County Development Plan in accordance with the requirements of the Regional Planning Guidelines 2010 – 2020.

In addition to incorporating a Core Strategy the Draft County Development Plan will also:

- Update the policies and objectives of the Council in accordance with the National Development Plan 2014 - 2020, National Spatial Strategy 2002 - 2020, Border Regional Planning Guidelines 2010 - 2022; National Policy; including national policy guidance issued under section 28 of the Planning and Development Act, as amended, the Water Framework Directive and respective River Basin District Management Plans; European Communities Environmental Objectives (Surface Water) Regulations 2009; and, the European Communities (Birds and Habitats) Regulations 2011. The planning authority has a duty to:
- Determine whether the proposal is directly connected with or necessary to site management for conservation; and if not,
- Determine whether the proposal is likely to have a significant effect on the site either individually or in combination with other plans or projects; and if so,
- Make an appropriate assessment of the implications (of the proposal) for the site in view of the Natura 2000's conservation objectives.

# 1.2 Legislative Background to Appropriate Assessment

European Directive 92/43/EEC (The Habitats Directive) requires competent authorities to carry out an Appropriate Assessment (AA) of plans and projects that, either alone or in combination with other plans and projects are likely to have a significant effect on European designated sites.

The preparation of the Draft Cavan County Development Plan has regard to Article 6 of the Council Directive 92/43/EEC of 21<sup>st</sup> May 1992 on the Conservation of Natural Habitats and Wild Fauna and Flora (as amended). Hereafter referred to the Habitats Directive. This is transposed to Irish legislation under the European Communities (Birds and Natural Habitats) Regulations 2011 and the Planning and Development (Amendment) Act 2010.

The European Communities (Birds and Natural Habitats) Regulations 2011 lists priority habitats and species that are of European and International importance and require protection. This protection is afforded through the designation of areas that represent significant populations of listed species within a European context (Natura 2000 sites). Areas designated for bird species are classed as Special Protection Areas (SPA), and areas designated for other protected species and habitats are classed as Special Area of Conservation (SAC). Species that occur in SPAs (Annex I of Birds Directive) or SACs (Habitats listed on Annex I and/or Annex II Species listed on the Habitats Directive) in which they are designated features have full European protection. Species listed on Annex IV of the Habitats Directive are strictly protected wherever they occur in the country, whether inside or outside a Natura 2000 site. Habitats that are equivalent to those listed, but not within SACs are still classed as priority habitats of international and national importance and under Article 27 (4(b)), the planning authority has a duty to avoid the pollution or deterioration of Annex I habitats.

The Habitats Directive specifies scientific criteria on the basis on which Natura 2000 sites must be selected and sets out various procedures and obligations in relation to the conservation objectives of those sites.

Articles 6(3) and 6 (4) of the Habitats Directive set out the requirement for an assessment of proposed plans and projects likely to significantly affect Natura 2000 sites.

Article 6(3) establishes the requirement to screen all plans and projects for likely impacts (referred to as a Stage 1: Screening for Appropriate Assessment) and to carry out further detailed assessment if required (referred to as a Stage 2: Appropriate Assessment):

Article 6(3): "Any plan or project not directly connected with or necessary to the management of the [Natura 2000] site but likely to have a significant effect thereon, either individually or alone in combination with other plans and projects, shall be subjected to an appropriate assessment of its implications for the site in view of its conservation objectives. In light of the conclusions of the assessment of the implications for the site and subject to provisions of paragraph 4, the competent national authorities shall agree to a plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public"

The fore mentioned paragraph 4 allows for proposed plans and projects to be approved in certain conditions, as follows:

Article 6(4): "If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, Member States shall take all compensatory measures necessary to ensure that the overall coherence of the Natura 2000 is protected. It shall inform the Commission of any compensatory measures adopted. Where the site concerned hosts a priority natural habitat type and/or a priority species the only considerations which may be raised are those relating to human health or public safety, to the beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of over-riding public interest."

# 1.3 Stages in the Appropriate Assessment Process

The process of assessing the Draft Cavan County Development Plan is a structured exercise with a series of steps. The stages proposed in the European Commission guidance are:

Stage One: Screening — the process which identifies the likely impacts upon a Natura 2000 site of a project or plan, either alone or in combination with other projects or plans, and considers whether these impacts are likely to be significant;

Stage Two: Appropriate Assessment — consideration of the impact on the integrity of the Natura 2000 site of the project or plan, either alone or in combination with other projects or plans, with respect to the site's structure and function and its conservation objectives. Additionally, where there are adverse impacts, an assessment of the potential mitigation of those impacts;

Stage Three: Assessment of alternative solutions — processes which examine alternative ways of achieving the objectives of the project or plan while avoiding adverse impacts on the integrity of the Natura 2000 site;

Stage Four: Where no alternative solutions exist and where adverse impacts remain — an assessment of compensatory measures where, in the light of an assessment of imperative reasons of overriding public interest (IROPI), it is deemed that the project or plan should proceed.

This report provides a Stage 1: Screening for Appropriate Assessment and is intended to address all issues regarding the Draft County Cavan Development Plan 2014 - 2020 and the potential impacts on all Natura 2000 sites within 15km of County Cavan and allow Cavan County Council as the "Competent Authority" to comply with Article 6 (3) and (4) of the Habitats Directive 92/43/EEC.

# 1.4 Scope of the AA for Draft County Cavan Development Plan.

The scope of the AA considers the following information:

Description of Draft Development Plan

- Extent and influence of the Draft Development Plan including spatial context of Natura 2000 sites in County Cavan and within 15km of the county boundary;
- Projected settlement strategy, rezoning and revisions to local area plans; and,
- Zoning policies and objectives relevant to the Natura 2000 network.

Potential Impacts on Natura 2000 sites with respect to their prescribed Conservation Objectives:

- The impact of the Draft Development Plan 2014 2020 on the defining structure and function of Natura 2000 sites;
- Likely direct, indirect or secondary impacts of proposed zoning policies and objectives on designated features of Natura 2000 sites;

Mitigation

- Details of policies within the Core Strategy of the Draft Development Plan that guide the protection and conservation of qualifying features within Natura 2000 sites and the wider ecological network of sites supporting Natura 2000 site integrity;
- Details of the measures that could be employed to avoid the risk of impacts.

Cumulative effects

 A consideration of in-combination impacts on the Natura 2000 Network of all existing and draft County Development Plans within 15km of County Cavan.

#### 1.5 Main Sources of Formal Guidance

- Department of Environment, Heritage and Local Government (2009). Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities;
- European Community Habitats Directive (92/43/EEC) The Habitats Directive;
- European Communities (Natural Habitats) Regulations 2011;
- European Commission Environment DG (2001). Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC:
- Managing Natura 2000 Sites: The Provisions of Article 6 of the Habitats Directive 92/43/EEC;
- Conserving Natura 2000 Rivers: Ecology Series No. 7;
- Conserving Natura 2000 Rivers: Ecology Series No. 10; and,
- Conserving Natura 2000 Rivers: Ecology Series No. 11.

#### 1.6 Main Sources of Consultation

- The Stage 1: Screening for Appropriate Assessment of the Draft County Development Plan was carried out concurrently and with consideration of overlapping issues pertinent to the Strategic Environmental Assessment of the Draft County Development Plan with consultation and direction provided by the Executive Planner at Cavan County Council (Eve Harrison);
- Consultation with Heritage Council: Heritage Officers for County Cavan (Ann-Marie Ward); Longford (Mairead Ni Chonghaile); and, Meath (Dr. Loreto Guinan).
- Consultation with National Parks & Wildlife Service (NPWS): Director of Conservation for County Cavan, Monaghan & Longford (Michael Hackett) and Conservation Officers (John Matthews (Cavan West)); David McDonagh (Cavan East)). NPWS Officers from bordering counties also provided detailed summaries of threats to individual Natura 2000 sites; Fiona Wheeldon (Leitrim); Susan Moles (Longford); Maurice Eakin (Director of Conservation for County Louth, Meath & Dublin)); Annette Lynch (Meath); and, also specialist advice on Upland habitats in County Cavan was provided by Caitriona Douglas of NPWS.

#### 1.7 Key Statutory Instruments Relevant to the Assessment Process

- The Water Framework Directive (WFD) 2000/60/EC
- European Communities Environmental Objectives on (Surface Waters) Regulations (2009) (S.I. No. 272 of 2009);
- European Communities Environmental Objectives Groundwater Regulations 2010 (S.I. No. 9 of 2010).
- The Strategic Environmental Assessment (SEA) Directive 2001/42/EC

#### 2.0 DESCRIPTION & FEATURES OF PLAN

#### 2.1 Review of the County Cavan Development Plan 2014 - 2012

The Plan establishes a framework for the co-ordinated and sustainable economic, social, cultural and environmental development of County Cavan. The Plan details the policies and objectives of Cavan County Council's vision for the spatial and sectoral development of Cavan over the period from 2014 – 2020. The Plan also serves as a point of reference for statutory authorities, planners, developers and the general public on how development proposals are likely to be assessed.

The Plan comprises 11 chapters followed by general policies and objectives for all Town and Village Plans. The introductory chapter details the role, content and context of the Plan. Chapter 2 details the Settlement Strategy for the County, analysing how demographics and populations have changed during the life time of the previous Plan, and projecting population growth within a settlement hierarchy. Chapters 3 – 11 outline the development strategy for County Cavan on a thematic basis with each chapter outlining strategic themes, policies and objectives.

# 2.2 Development Plan Screening Process

There is no restriction on when the screening of any plan or project likely to significantly effect Natura 2000 sites can take place. The screening is intended to provide a review of the plan and if the plan triggers the requirement for more detailed level of assessment (Stage 2: Appropriate Assessment) and which Natura 2000 sites will be affected. This screening process is undertaken during the preparation of the Draft County Development Plan and serves to highlight particular impacts of policies and objectives on Natura 2000 sites and provides scope for amending policies that would have a direct conflict with the conservation objectives of Natura 2000 sites.

#### 2.3 Proximity of Settlement Framework to Natura 2000 sites.

Table 1 summarises the requirements of the Settlement Framework and zoning policies in the Draft County Cavan Development Plan 2014 – 2020 and the proximity (relevance) to designated sites within the Natura 2000 Network.

ArcView software using Ordnance Survey maps and NPWS shapefiles were used to identify the boundaries of Natura 2000 Sites in County Cavan and within 15km of the County boundary. The location of Special Protection Areas and Special Protection Areas are shown in Figures 1. and, Figure 2. respectively.

 Table 1: Settlement Framework and Proximity to Natura 2000 sites.

Settlement Hierarchy	Core Strategy & Local Area Plan Objectives	Proximity to Natura 2000 Site
Bailieborough	It is one of County Cavan's major towns and functions	Lough Sheelin SPA, 22.9km west
	as a housing, retail, service and employment provider	south-west; Lough Oughter &
	for the surrounding community. Bailieborough town	Associated Loughs SAC, 29km to the
	continues to demonstrate strong population growth with	west north-west; and, Lough Oughter
	a 28.7% increase from 2006 – 2011. The Settlement	Complex SPA, 30km to the west north-
	Framework identified a requirement for 26 hectares of	west.
	land suitable for residential development. This is to	
	cater for the current and future population up to 2020.	
Ballyjamesduff	Development pressure and significant population	Lough Sheelin SPA, 6.1km to the
	together with some topographical constraints has	south-west; River Boyne & River
	resulted in the town sprawling out from the centre	Blackwater SAC and SPA, 12.3km to
	towards the east, north east and south. Further	the south-east; and, Lough Oughter
	development to be contained as a priority within and	SPA, 19.9km to the north-west.
	adjacent to the town core boundary. The population of	
	Ballyjamesduff town has increased by 52% over the	
	period 2006 – 2011. The Settlement Framework	
	identified a requirement for 26 hectares of land suitable	
	for residential development.	
Cootehill	There has been some development of the back lands of	Lough Oughter & Associated Loughs
	main street properties which has opened up the	SAC, 14.7km to the west; Kilroosky
	possibility for further development of this town core.	Lough Cluster SAC, 15.5km to the
	The town has seen significant growth and development	north-west; and, Lough Oughter
	with some very large housing developments and a	Complex SPA, 20.2km to the west.
	number of business, industrial and enterprise units. The	
	population of Cootehill has increased by 12% over the	
	period 2006 – 2011. The Settlement Framework	
	identified a requirement for 26 hectares of land suitable	
	for residential development.	
Kingscourt	There is significant capacity for development in the	Lough Sheelin SPA, 32km east south-
	backlands of main street properties but it is essential	east; Lough Oughter & Associated
	that this is conducted in a sensitive manner which does	Loughs SAC, 38.9km to the west north-
	not detract from the traditional form of this town. The	west; and, Lough Oughter Complex
	town has experienced a significant growth of 33.1%	SPA, 39.8km to the west north-west.
	between 2006 and 2011. The Settlement Framework	
	identified a requirement for 26 hectares of land suitable	
	for residential development.	
Virginia	In more recent times residential development has	River Boyne & River Blackwater SAC

	sprung up on all sides of the traditional Town Core. The	and SPA, 4.5km to the south; and,
	town's physical development is restricted to the South	Lough Sheelin, 12.2km to the west.
	by Lough Ramor and to the North by the proposed	
	Virginia by-pass corridor. This has pushed development	
	to the east and west of the core along the N3 route.	
	The development of back lands will be key to the	
	continued progress of this town. The town has	
	experienced continued growth of 31.6% between the	
	years 2006 – 2011 however; this rate of increase is	
	much reduced compared to growth of 58.6% during the	
	period 2002 to 2006. Given the towns strategic location	
	further growth is expected. The Settlement Framework	
	identified a requirement for 26 hectares of land suitable	
	for residential development.	
Ballyconnell	Trade and activity with Northern Ireland has developed	Lough Oughter & Associated Loughs
	and tourist activities have also expanded, helped by the	SAC, within 1km east of Ballyconnell;
	construction of the Shannon-Erne Waterway. New	Lough Oughter Complex SPA, 8.7km to
	residential developments including apartment blocks	the south-east; and, Cuilcagh – Anierin
	along the river, large housing estates and commercial	Uplands SAC, 12.8km to the west.
	and retail developments have brought a new vitality to	
	the Town. Ballyconnell continues to experience strong	
	population growth with a population increase of 42%	
	over the period 2006 – 2011. The Settlement	
	Framework identified a requirement for 15 hectares of	
	land suitable for residential development.	
Belturbet	Since 2006 the population in Belturbet has undergone a	The River Erne flows through the town
	slight decline of -3%. There is a potential capacity for	and is included within the designation
	further retail and service development in the core area	for Lough Oughter & Associated
	of the town mainly through the re-use of derelict and	Loughs SAC, considered within
	unused buildings. The Settlement Framework identified	immediate proximity to Belturbet; and,
	a requirement for 15 hectares of land suitable for	Lough Oughter Complex SPA, 3.4km to
	residential development.	the south.
Mullagh	Mullagh has experienced significant development and	River Boyne & River Blackwater SAC
	population growth (67.5% between the years 2006 –	and SPA, 6.3km to the south; Lough
	2011), in some part, due to its strategic location	Bane & Lough Glass SAC, 18.9km to
	adjacent to the Greater Dublin Area. This rapid growth	the south-west; White Lough, Ben
	has not allowed the town itself to develop in a similar	Loughs & Lough Doo SAC, 20.7km to
	fashion and it is likely that many inhabitants work	the south-east.
	outside the town. The Settlement Framework identified	
	a requirement for 15 hectares of land suitable for	

	residential development.	
Ballinagh	The Settlement Framework identified Small towns as	Lough Oughter Complex SPA, 4.4km
	being on Tier four of the Settlement Hierarchy. Small	north-west; Lough Oughter &
	towns have a population of fewer than 1,000 with some	Associated Loughs SAC, 4.7km north-
	basic retailing and a mix of social, educational and	west; and, Lough Sheelin SPA, 13.5km
	other services. Zoning objectives have not been	south-east.
Ballyhaise	identified for these small towns. It is important that the	Lough Oughter & Associated Loughs
	retail and service function of each small town and	SAC within 1km to the north-east;
	village remains within the traditional town core and	Lough Oughter Complex SPA, 4.2km to
	residential development close to it. This will create the	the west.
Shercock	compact urban form that is the most sustainable. The	Killyconny Bog SAC, 22.3km south
	Settlement Framework as identified an overall target	south-west.
Killeshandra	growth for Tier Four and Tier Five Settlements	Considered to be within immediate
	(Villages), as 975 persons up to 2020.	proximity to Lough Oughter &
		Associated Loughs SAC, and Lough
		Oughter Complex SPA.
Arva		Lough Oughter & Associated Loughs
		SAC, 7.2km north-east; and, Lough
		Oughter Complex SPA, 8.7km to the
		north-east.
Kilnaleck		Lough Sheelin SPA, 3.2km to the
		south; and, Lough Kinale & Derragh
		Lough SPA, 7.1km south of Kilnaleck.
Swanlinbar	Zoning objectives have not been identified for these	Cuilcagh – Anierin Uplands SAC, 1.5km
	small towns and villages. Tier five, Villages have a	to the west.
Blacklion	population of under 300 and have a smaller mix of	Corratirrim SAC, 1.1km to the south;
	retail, services, social and educational services.	Cuilcagh - Anierin Uplands SAC, 5.6km
		to the south; and Boleybrack Mountain
		SAC, 7.5km south-west.
Loch Gowna		Lough Oughter & Associated Loughs
		SAC, 11.4km north; Lough Oughter
		Complex SPA, 11.7km north; Lough
		Sheelin SPA, 13.7km south-east; and,
		Lough Kinale & Derragh Lough SPA,
		13.8km south-east.

# 2.4 Proposed Development Plan Policies and Objectives.

The following relevant information contained within the Draft Cavan County Development Plan 2014 – 2020 provides the strategic direction and policy against which proposed developments are based. A material consideration in that strategy and respective policy platform is the regulatory and legal instruments protecting designated sites with a specific focus on the key conservation objectives of those sites.

#### Chapter 2 – Settlement Framework

The Settlement Framework aims to set a vision and overall strategy for the spatial development of the County and a framework for the development of the policies and objectives in subsequent sections of the plan. Relevant items listed in the Core Strategy:

- 1. To ensure that the future spatial development of County Cavan is in accordance with higher level plans including the National Development Plan, National Spatial Strategy, Border Regional Planning Guidelines, as well as, national policy guidance issued under section 28 of the Planning and Development Act, as amended, the River Basin Management Plans, surface water regulations and the Habitats Directive.
- 5. To take in account, in the assessment of development proposals, Article 6(3) (4) and Article 10 of the Habitats Directive, the Surface Water Regulations 2009 and the relevant measures of the River Basin Management Plans 2009 2015.
- 7. To restrict or prevent development in areas at risk of flooding in accordance with the Planning and Flood Risk Guidelines 2009.
- **17.** To promote and facilitate the provision of the necessary transport infrastructure to fully accommodate existing and future population needs as well as the demand for economic development in an environmentally sustainable manner.
- **18.** To facilitate the provision of the County's infrastructure in a sustainable and efficient manner that promotes the social and economic development of the County.
- **19.** Proposals for the generation of energy from renewable sources will be supported provided that the wider environmental benefits are not outweighed by any detrimental impacts of the proposed development (including any electricity transmission facilities needed) on the landscape, public safety, and the local environment).

# **Chapter 3 – Economic Development**

- **A-P2** To facilitate and encourage the sustainable development of agricultural enterprises, agri-tourism projects and farm diversification and other suitable proposals that supports the development of alternative rural enterprises.
- **A-O1** To promote the continued development and expansion of the Agri-Food Sector.
- **A-O4** To ensure that all agricultural activities comply with legislation on water quality, such as the Phosphorous Regulations, Water Framework Directive and Nitrates Directive.
- **I-O1** Ensure that there is sufficient and suitable lands reserved for new enterprise development at key locations throughout the county.

**F-P2** To encourage forestry and forestry related development, as a means of diversifying from traditional farming activity.

# Chapter 4 - Physical Infrastructure

#### **Section 1: Roads & Transport**

**RTO1** To ensure the co-ordination of transport and land use planning.

**RTO 2** To implement the recommendations of the Transportation Plans for the towns of Cavan,

Kingscourt, Bailieborough and Cootehill which were carried out in recent years.

**RT OBJ 4** A long term objective for this County is the extension of the Navan Rail line into Kingscourt and beyond to Cavan.

RT OBJ 10 To promote the development of cycling by the development of cycle links.

RT OBJ 37 N55 National Secondary Route: To progress and develop the N55 Ballinagh Bypass.

RT OBJ 42 To progress and develop the Cavan to Dundalk Strategic Route Improvement Scheme

(Dundalk - Shercock - Cootehill - Cavan; R-188, R-192, R-162, R-178).

#### Section 2: Water & Wastewater Services

**WWSP01** To support the objectives of the report entitled 'Water Services Investment Programme – Assessment of Needs 2009 – 2015'.

# **Section 3: Waste Management**

No policies or objectives within the Draft Plan that relevant to potential threats to Natura 2000 sites.

#### Section 4: Energy

**E-OBJ1** To support the infrastructural renewal and development of electricity networks in the

County.

**EN010** To encourage and facilitate the expansion of the Gas network in County Cavan.

#### **Section 5: Telecommunications and Information Technology**

No policies or objectives within the Draft Plan that relevant to potential threats to Natura 2000 sites.

#### Chapter 5 - Housing

**HP2** To implement the provisions of the Housing Strategy.

**HO1** Require that all new residential developments include a mix of house types and sizes to cater for different needs including families, single persons, the elderly and mobility impaired.

H06 Ensure a sequential approach to residential development in which the priority location for new residential development will be town and village cores, brownfield sites and suitable areas adjoining town and village cores.

# Chapter 6 - Social Strategy & Community Facilities

**RO1** To meet the recreational needs of all communities and individuals in the county.

# Chapter 7 - Built Heritage & Archaeology

No policies or objectives within the Draft Plan that relevant to potential threats to Natura 2000 sites.

# Chapter 8 - Natural Heritage & Environment

All policies and objectives detailed in this chapter relate to the protection of natural resources and are considered later in the Screening process (see Section 4.4 below).

#### Chapter 9 - Recreation & Tourism

**WA –O1** To promote the development of new walking routes and to facilitate the protection, development and maintenance of walking and cycling routes within the County.

# Chapter 10 - Rural Settlement Strategy

**RHO3** Applications in rural areas shall be for individual dwelling houses only and must be made in the name of the person who is the intended occupier of the dwelling house.

**RHO8** To cater for the housing requirements of members of the local rural community who have a rural generated housing needs.

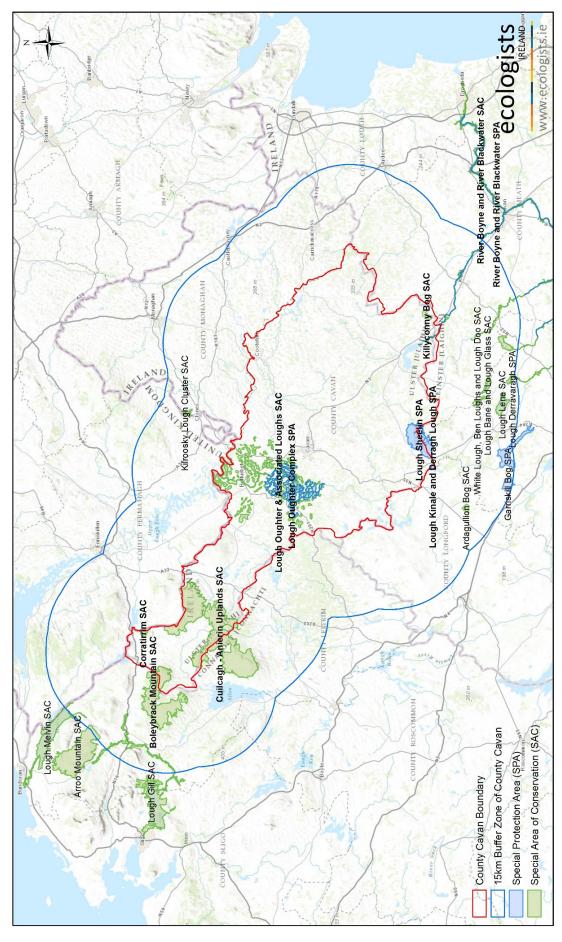
**RHO9** Urban generated housing development shall be directed into town and village settlements.

**RHO12** To facilitate proposals for permanent residential development in order to tackle declining population levels.

# **Chapter 11 – Development Management Standards**

No policies or objectives within the Draft Plan that relevant to potential threats to Natura 2000 sites.

Figure 1. Natura 2000 Network included in the Screening for Appropriate Assessment.



#### 3.0 NATURA 2000 SITES

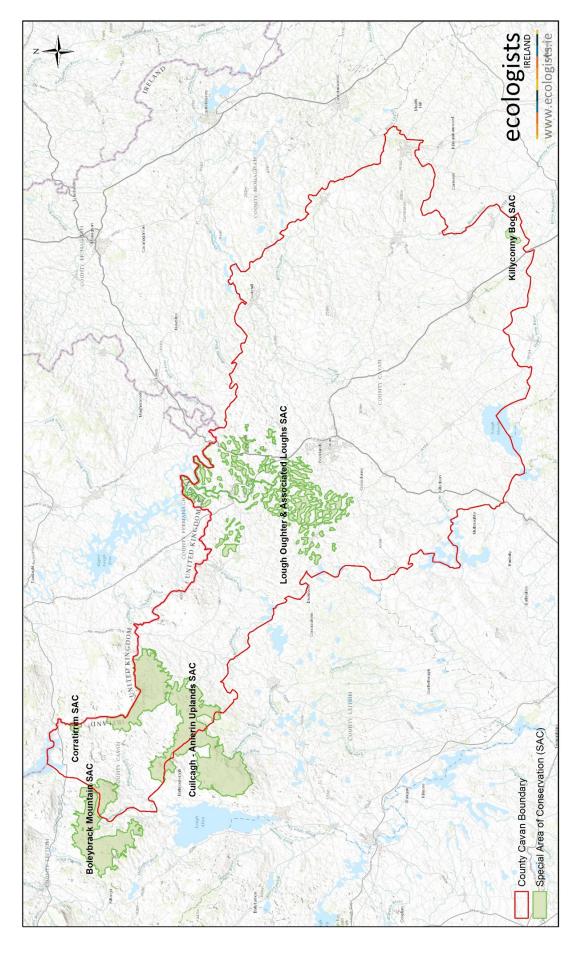
#### 3.1 Overview of Natura 2000 Sites in County Cavan.

The natural environment both within and surrounding County Cavan is rich in biodiversity, the extensive drumlins so prevalent across the country are integrated into a largely agricultural landscape, with interdrumlin areas forming a diverse network of lakes, rivers, wetlands and peatlands. As shown in Figure 1, there are currently nine Natura 2000 sites designated for conservation interest within a European context. Five Special Areas of Conservation are designated within the County, including two sites that overlay the boundary, covering a total land area of c.16,600ha. Four Special Protection areas have been designated within the County, two of which overlay the boundary with a total land cover of c.4110.2ha.

# 3.2 Special Areas of Conservation in County Cavan.

The five SACs located within Cavan represent a diverse range of annexed habitats. The inter-drumlin network of wetlands and upland peatlands typical of the Cavan landscape comprise the core interest across the Natura 2000 network in the region. A broad guild of environmental conditions and associated habitats occur within County Cavan; from the botanically rich limestone pavement at Corratirrim, to the sparse arcticalpine vegetation on siliceous rocky outcrops in the Cuilcagh-Anierin Uplands. The River Boyne and River Blackwater SAC is the only site designated for annexed species within the County, notably for nationally important populations of River Lamprey, Atlantic Salmon, and European Otter. Figure 2. Shows the location of all SACs in the County. Table 2 summarises the designated features of each site and the relevant policies and objectives in the Draft Cavan County Development Plan 2014 – 2020 that may have potential to exacerbate the existing pressures and threats to site integrity.

Figure 2. Special Areas of Conservation in County Cavan.



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Table 2. Qualifying Features of Special Areas of Conservation in County Cavan.

Threats to Site Integrity	Changes in local hydrology	(drainage); Forestry; Peat	extraction; Renewable wind-	energy development; Over-	grazing; Under-grazing;	Recreation; and, illegal dumping.	Policies & Objectives:	A-P2	A-01	F-P2	WA01	RO1												
Extent and Character	This habitat represents approximately 1% of the land cover within the SAC (242ha)	Or une rand cover within the SAC (C421a).  Natural dystrophic lakes occur in 87% of	all suitable 10km squares in Ireland. 10	SACs are designated for this habitat type.	Boleybrack Mountain SAC represents	1.17% of the total SAC contribution in the	Member State.						This habitat represents 30% of the land	cover within the SAC (c.1280ha). Wet	heath occurs in 89% of suitable 10km	squares in Ireland. 40 SACs are	designated for this habitat type.	Boleybrack Mountain SAC represents	3.15% of the total SAC contribution for the	Member State.	This habitat represents 22% of the land	cover within the SAC (c.939ha). Dry	Heaths occur in 81% of all suitable 10km	squares in Ireland. Boleybrack Mountain
Qualifying Features	Natural dystrophic lakes and ponds [3160]	Dystrophic systems most often associated with Blanket bogs	[7130] and may include isolated seasonal pools, random	collections of irregularly-shaped more-or-less permanent	waters, and ordered linear or concentric arrays of pools and	small lochs. Dystrophic pools may be also found on raised	bogs situated mainly on plains and valley bottoms. These	water bodies are very acidic and poor in plant nutrients.	Their water has a high humic acid content and is usually	stained dark brown through exposure to peat. Most	examples are small (less than 5 ha in extent), shallow, and	contain a limited range of flora and fauna.	Northern Atlantic wet heaths with Erica tetralix [4010]	Wet heath usually occurs on acidic, nutrient-poor substrates,	such as shallow peats or sandy soils with impeded drainage.	The vegetation is typically dominated by mixtures of cross-	leaved heath Erica tetralix, heather Calluna vulgaris,	grasses, sedges and Sphagnum bog-mosses			European dry heaths [4030]	Occur in a variety of forms in Ireland, mostly on free-	draining, nutrient poor acidic soils associated with upland or	lowland slopes.
NATURA 2000 Site	Boleybrack Mountain Special	Area of Conservation [002032]	Site Area: 4268.76ha		Boleybrack Mountain is an	extensive upland plateau	situated to the north of Lough	Allen. It is dominated by blanket	bog and wet heath, with small	oligotrophic lakes scattered	throughout.													

		represents c.2.4% of the total SAC	
		contribution within the Member State.	
	Molinia meadows on calcareous, peaty or clayey-silt-	This habitat represents 1% of the land	
	laden soils (Molinion caeruleae) [6410]	cover within the SAC (c.42ha). Molinia	
	Molinion meadows are found mainly on moist, moderately	meadows occur within 96% of all suitable	
	base-rich, peats and peaty gley soils, often with fluctuating	10km squares in Ireland. Boleybrack	
	water tables. They usually occur as components of wet	Mountain represents $c.1.3\%$ of the total	
	pastures or fens, and often form mosaics with dry grassland,	SAC contribution within the Member State.	
	heath, mire and scrub communities.		
	Blanket bogs (*if active only) [7130]	This habitat represents 30% of the land	
	These extensive peatlands have formed in areas where	cover within the SAC ( $c$ .1280ha). Blanket	
	there is a climate of high rainfall and a low level of	Bogs occurs in 83% of all suitable 10km	
	evapotranspiration, allowing peat to develop not only in wet	squares in Ireland. Boleybrack Mountain	
	hollows but over large expanses of undulating ground.	represents c.0.8% of the total SAC	
	*Active' is defined as supporting a significant area of	contribution for this habitat in the Member	
	vegetation that is normally peat-forming. Typical species	State.	
	include the important peat-forming species, such as bog-		
	mosses Sphagnum spp. and cottongrasses Eriophorum		
	spp., or purple moor-grass Molinia caerulea in certain		
	circumstances, together with heather Calluna vulgaris and		
	other ericaceous species.		
Killybconny Bog candidate	Active raised bogs [7110]	The habitat type forms 20% of the land	Peat extraction; Changes in local
Special Area of Conservation	Peat-forming ecosystems that have developed during	cover within the SAC (c.38.2ha). This	hydrology (drainage); Illegal
[000000]	thousands of years of peat accumulation, to such an extent	habitat is largely confined to the lowland	burning; Forestry; Renewable
Site Area: 191.2ha	that the depth of peat isolates them from the influence of	central and mid-west of the country and is	wind-energy development; Over-
There are few raised bogs in the	groundwater. Within the raised bog ecosystem the bog	extremely rare in Ireland with few pristine	grazing; Under-grazing; and,

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of the best developed consisting			
	patterns of hummocks and hollows rich in Sphagnum and	undergone an estimated decrease in land	
of two small basins which have oth	other peat-forming species.	cover of more than 35% in the last decade	Policies:
coalesced over a low drumlin		and respectively only occurs in 56% of	A-P2
ridge.		suitable concentrated 10km squares in	A-01
		Ireland. Killyconny Bog represents c.8.3%	F-P2.
		of the SAC contribution for this habitat in	
		the Member State.	
<u>ă</u>	Degraded raised bogs still capable of natural	This habitat type forms $c.26\%$ of the land	
<u>ē</u>	regeneration [7120] Degraded raised bogs occur where	cover within the SAC (49.7ha). This habitat	
the	there has been widespread disruption, usually by man, to the	occurs in 81% of 10km squares in Ireland,	
str	structure and function of the peat body. This can involve	exemplifying the extent of degradation	
Ch	changes to the hydrology, vegetation, and physical structure	within raised bogs in a national context.	
of	of the bog, leading to desiccation, oxidation and loss of	Killyconny bog represents $c.0.6\%$ of the	
ds	species or changes in the balance of the species	SAC contribution for this habitat in the	
00	composition. In contrast to 7110 Active raised bogs, peat is	Member State.	
<u>ou</u>	not currently forming in degraded bog, however which are		
ÿ	capable of natural regeneration', i.e. "where the hydrology		
ca	can be repaired and where, with appropriate rehabilitation		
Ë	management, there is a reasonable expectation of re-		
es	establishing vegetation with peat-forming capability within 30		
уе	years".		
Corratirrim Special Area of	Limestone pavements [8240]	This habitat forms $c.23\%$ of the land cover	Agricultural improvement /
Conservation [000979]	The landscape, flora and associated fauna have evolved in	within the SAC (23.4ha). Limestone	reclamation, agricultural
Site Area: 117.03ha	response to millennia of farming, principally grazing. This	pavement occur in 81% of suitable 10km	abandonment, grazing regimes,
In the north-west of Co. Cavan, ha	habitat supports a diverse flora and forms mosaics of orchid-	squares in Ireland. 23 SACs are	direct loss of habitat through

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Carboniferous limestone underlies the shales and	rich grassland, limestone heath and hazel scrub. Limestone pavement is found mainly in counties Clare, Galway and	designated for this habitat type. Corratirrim represents c.0.1% of the total SAC	quarrying.
grits that form the Cuilcagh	Mayo, most famously in the Burren and the Aran Islands.	contribution for this habitat in the Member	Policies:
range.		State.	A-01
			A-P2
			F-P2
Cuilcagh – Anierin Uplands	Oligotrophic to mesotrophic standing waters with	This habitat represents c.1% of the land	Changes in local hydrology; Peat
Special Area of Conservation	vegetation of the <i>Littorelletea uniflorae</i> and/or of the	cover with the SAC (97.4ha). Oligotrophic	extraction; Overgrazing; Forestry;
[000584]	Isoeto-Nanojuncetea [3130] The clear soft water which	to Mesotrophic lakes occur in 83% of	burning; Illegal dumping.
Site Area: 9739.7ha	characterises this habitat type contains low to moderate	suitable 10km squares in Ireland. There	Changes in local hydrology;
	levels of plant nutrients and supports a characteristic	are 10 SACs designated for this habitat	Renewable wind-energy
This site has one of the largest	assemblage of plant species. The vegetation community is	type. Cuilcagh – Anierin Uplands	development; and, Recreation.
expanses of intact, undisturbed	characterised by amphibious short perennial vegetation, with	represents c.2.4% of the SAC contribution	
mountain blanket bog in Ireland.	shoreweed Littorella uniflora being considered as the	for this habitat within the Member State.	Policies:
	defining component.		A-P2
			A-01
	Natural dystrophic lakes and ponds [3160] Dystrophic	This habitat represents approximately 1%	F-P2.
	systems most often occur on 7130 Blanket bogs and may	of the land cover within the SAC (c.97ha).	
	include isolated seasonal pools, random collections of	Natural dystrophic lakes occur in 87% of	
	irregularly-shaped more-or-less permanent waters, and	all suitable 10km squares in Ireland. 10	
	ordered linear or concentric arrays of pools and small lochs.	SACs are designated for this habitat type.	
	These water bodies are very acidic and poor in plant	Cuilcagh - Anierin Uplands SAC	
	nutrients. Their water has a high humic acid content and is	represents c.2.7% of the total SAC	
	usually stained dark brown through exposure to peat. Most	contribution in the Member State.	
	examples are small (less than 5 ha in extent), shallow, and		
	contain a limited range of flora and fauna		

Cuilcagh – Anierin represents 13.3% of the This habitat represents approximately 15% This habitat represents approximately 58% of the land cover within the SAC (c.487ha), (c.1461ha), equivalent to 3.6% of the total This habitat represents approximately 5% This habitat represents approximately 1% This habitat represents approximately 1% SACs are designated for this habitat type. total SAC contribution for this habitat type of the land cover within the SAC (97.4ha) total SAC contribution within the Member (c.97.4ha). This habitat occurs in 84% of all suitable 10km squares in Ireland. 10 (c.5649ha), equivalent to c.3.6% of the SAC contribution in the Member State. and occurs in 100% of suitable 10km equivalent to 1.25% of the total SAC contribution in the Member State. of the land cover within the SAC of the land cover within the SAC of the land cover within the SAC in the Member State. State. base-rich metamorphic and igneous rocks. The soils have an Species rich Nardus grasslands, on siliceous substrates grasslands are important because they support a wide range in mountain areas [6230] Species-rich Nardus grasslands strata on siliceous bedrock. These may include moderately of species, including Atlantic, sub-Atlantic and arctic-alpine Northern Atlantic wet heaths with Erica tetralix [4010] Siliceous rocky slopes with chasmophytic vegetation tend to develop where there is flushing through base-rich communities that colonise the cracks and fissures of rock bedrocks with at least some silica. Species-rich Nardus acidic pH (<7.0 and mainly <6.0) and are derived from [8220] Chasmophytic vegetation consists of plant Blanket bogs (\*if active only) [7130] European dry heaths [4030] plants and invertebrates.

water treatment / effluent); Arterial table); Loss of fringe vegetation to residential development within the Water quality and pollution (waste agriculture; infilling; pollution from Belturbet. Both towns are within Dredging; Forestry; Draining for (lowering of the regional water and, Introduction of non-native identified a requirement for 15 development; Illegal dumping; fertilisers and eutrophication. drainage; Water abstraction The Settlement Framework hectares of land suitable for close proximity to this SAC. towns of Ballyconnell and nvasive species. Policies: suitable 10km squares in Ireland. 11 SACs designated for this habitat type. Cuilcagh – This habitat represents approximately 67% are designated for this habitat type. Lough suitable 10km squares in Ireland. 39 SACs synopsis. Alkaline Fen occurs in 73.9% of Anierin Uplands represent c.2.81% of the (3187.8ha). This habitat occurs in 87% of total SAC contribution within the Member Oughter & Associated Loughs represent within the SAC is not detailed in the site 24% of the total SAC contribution within The extent and location of Alkaline Fen squares in Ireland. 16 SACs are of the land cover within the SAC the Member State State. communities develop on acid rocks whereas calcareous sub-Alkaline fens consist of a complex assemblage of vegetation formation with a high water table and a calcareous base-rich aces. The type of plant community that develops is largely Hydrocharition-type vegetation [3150] Natural eutrophic types characteristic of sites where there is tufa and/or peat determined by the base-status of the rock face. Siliceous oligotrophic, dystrophic or mesotrophic lakes, resulting in However, many such lakes have been damaged by overhigher natural productivity, and are typically species-rich. types develop on lime-rich rocks such as limestone and lakes have nutrient levels that are higher than those of Natural eutrophic lakes with Magnopotamion or enrichment with nutrients, resulting in hypertrophic conditions and a reduction in species-richness. Alkaline Fens [7230] calcareous schists. associated loughs occupy much basins in the course of the Erne Lough Oughter & Associated Blackwater Special Area of between Upper Lough Erne, town consisting of some 90 in north and central Cavan inter-drumlin lakes and 14 of the lowland drumlin belt Killashandra and Cavan Lough Oughter and its Conservation [002299] River Boyne & River Site Area: 4757.9ha Site Area: 2320.8ha **Longhs** [000007]

Policies: A-01 F-P2 0.79% of the entire SAC contribution within Drogheda. Alluvial Forest occurs in 61% of suitable 10km squares in Ireland. 28 SACs are designated for this habitat type. Within are designated for this habitat type. Within River Lamprey are widespread throughout Ireland and considered to be in favourable restricted to small areas. The largest area the SAC, however, this habitat represents the SAC this habitat represents only c.1% 100% of suitable 10km squares in Ireland. 9 SACs are designated for River Lamprey. conservation status nationally, occupying of the land cover (23.2ha), equivalent to of this habitat occurs on a chain of three The River Boyne system is an important equivalent to c.0.71% of the entire SAC The extent of alluvial forests within the contribution within the Member State. The River Boyne & River Blackwater small riparian islands 2.5km west of represents 1.12% of the total SAC Boyne catchment is localised and only c.1% of land cover (23.2ha), contribution for this species. the Member State. river channels to low-lying wetlands alongside the channels. artificial obstacles such as weirs or dams impede migration. woods dominated by alder Alnus glutinosa and willow Salix Alluvial forests with Alnus glutinosa and Fraxinus excelsior spp. on flood plains in a range of situations from islands in completing part of its life cycle in the sea), and pollution or (Alno-Padion, Alnion incanae, Salicion albae) comprises The river lamprey Lampetra fluviatilis is found in coastal waters, estuaries and accessible rivers. The species is Alluvial forests with Alnus glutinosa and Fraxinus normally anadromous (i.e. spawning in freshwater but The habitat typically occurs on moderately base-rich, eutrophic soils subject to periodic inundation. River Lamprey Lampetra fluviatilis [1099] Atlantic Salmon Salmo salar [1106] excelsior [91E0] water supply.

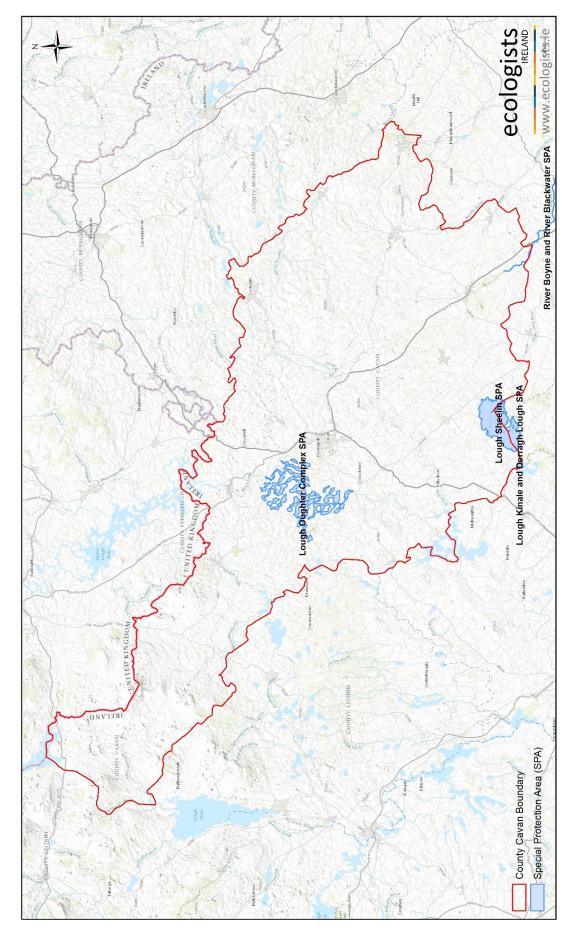
with excellent salmon spawning throughout 53.8% of suitable 10km squares in Ireland. Occur throughout the Boyne river system. Atlantic Salmon occur in 148 Irish Rivers. spawning catchment for Atlantic Salmon, 26 SACs are designated for this species. 47 SACs are designated for this species. Nationally the European Otter occupies The River Boyne & River Blackwater the main tributaries and headwaters, The River Boyne & River Blackwater 0.34% of the total SAC contribution. represents 0.52% of the total SAC contribution in the Member State. The otter Lutra lutra is a semi-aquatic mammal, which occurs range of running and standing freshwaters. These must have shallow gravelly areas in clean rivers and streams where the have a homing instinct that draws them back to spawn in the other parts of the river. After a period of 1-6 years the young has resulted in genetically distinct stock between rivers and salmon migrate downstream to the sea as 'smolts'. Salmon water flows swiftly. The young that emerge spread out into river of their birth after 1-3 years in the sea. This behaviour an abundant supply of food (normally associated with high The Atlantic salmon is an anadromous species (i.e. adults even within individual rivers, with some evidence of further freshwater and coastal areas. Inland populations utilise a takes place in shallow excavations called redds, found in in a wide range of ecological conditions, including inland vegetated river banks, islands, reedbeds and woodland, migrate from the sea to breed in freshwater). Spawning genetic distinctiveness in the tributaries of large rivers. water quality), together with suitable habitat, such as which are used for foraging, breeding and resting. European Otter Lutra lutra [1355]

# 3.3 Special Protection Areas in County Cavan.

Many species of migratory waterbirds depend on interconnected networks of wetlands. The extensive interdrumlin networks of wetlands of Cavan are an important resource for migrating and wintering waterbirds and three of the four Special Protection Areas in the County are designated for these interest features. Wetlands are also a great asset to the local community and economy, benefitting people by providing clean water and opportunities for fishing, agriculture, recreation and tourism within the County. Despite their importance, wetlands are amongst the world's most vulnerable ecosystems – being threatened by conversion for agriculture and development, drought, drainage and pollution. Consequently, an alarming 42% of the migratory waterbird populations in Europe are in decline.

The remaining site is the River Boyne and River Blackwater SPA and is designated for Kingfisher. Figure 3 shows all SPAs in County Cavan. Table 3 summarise the qualifying features of each site and the potential threats and existing pressures from the Draft Cavan County Development Plan 2014 – 2020.

Figure 3. Special Protection Areas in County Cavan.



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Table 3. Qualifying Features of Special Protection Areas in County Cavan.

NATURA 2000 Site	Qualifying Features	Extent and Character	Threats to Site Integrity
Lough Oughter Complex	Great Crested Grebe [A005] is a	Ireland supports approximately 2,074 breeding pairs. It is	Changes in local hydrology;
Special Protection Area	widespread breeder across much of	estimated that c.24% of the breeding population in Ireland	nutrient enrichment from
[004049]	Europe, which accounts for less than half	occurs within SPAs. Lough Oughter is at the centre of the Irish	agricultural run-off and waste-
Site Area: 1466.5ha	of its global breeding range. Its European	breeding range of Great Crested Grebe and the site supports	water; loss of fringe vegetation or
	breeding population is large (>300,000	in excess of 5.5% of the estimated national breeding total of	damage to the vegetation
The Lough Oughter Complex	pairs). The species breeds on fresh or	this species (115 individuals), equivalent to 23% of the SPA	sequence as a result of
SPA is of ornithological	brackish waters with abundant emergent	contribution for this species respectively.	development (e.g., private jetties).
importance for its wintering	and submerged vegetation showing a		Disturbance of roosting birds from
waterbird populations. Of	preference for non-acidic eutrophic	Ireland supports approximately 3,500 wintering Great Crested	recreation.
particular note is the	waterbodies with flat or sloping banks	Grebe. It is estimated that c.43% occur in SPAs. Lough	Lough Oughter is on the list of
internationally important	and muddy or sandy substrates usually	Oughter Complex support an average peak count of 85	Wildfowl Sanctuaries and is an
population of Whooper Swan	0.5-5 m deep and with large areas of	individuals each year, equivalent to 2.4% of the wintering	exclusion zone from Open
that is based in the area. The	open water. Suitable habitats include	population in the Member State, and 6.5% of the SPA	Season Orders; however there is
site also supports nationally	small pools or lakes, backwaters of slow-	contribution for this species respectively.	anecdotal evidence that illegal
important populations of a	flowing rivers and artificial waterbodies		hunting of Wigeon within the
further two wintering species	(e.g. reservoirs, fish-ponds, gravel pits		complex does occur.
and, notably, holds the highest	and ornamental lakes).		
breeding concentrations of	Whooper Swan [A038] Four discrete	Ireland supports approximately 10, 320 wintering Whooper	Policies & Objectives:
Great Crested Grebe in the	populations of the Whooper Swan have	Swan. It is estimated that c.1,853 of these birds winter in	HP2
country.	been identified in western Eurasia.	SPAs. Lough Oughter supports 318 roosting Whooper Swan	НО1
	Icelandic breeding stock winters in	(five year mean peak 1995 – 2000), equivalent to 3% of the	90Н
	Iceland, Britain and Ireland comprising of	wintering population in the Member State, and 17% of the SPA	RO1
	c.16,000 birds.	contribution for this species. The Icelandic population is	R08
		believed to be stable or declining slightly.	ВН09
			1

	Wigeon [A050]	Ireland supports approximately 125,000 wintering Wigeon.	RH012
	In winter, Wigeon are highly gregarious,	It is estimated 3% (3,863) of wintering Wigeon occur within the	A-01
	and occur in large, mobile flocks. Wigeon	SPA network. Lough Oughter Complex supports 903 (five year	A-P2
	is largely a coastal species, feeding on	mean peak 1995 – 2000) Wigeon, equivalent to 0.7% of the	
	mud-flats, coastal flooded grassland and	wintering population within the Member State, and 23.3% of	
	saltmarsh pastures, however are also	the total SPA contribution for this species.	
	widespread on inland flooded grassland.		
	Wetland & Waterbirds [A999]	The E.U. Birds Directive pays particular attention to wetlands	
		and, as these form part of this SPA, the wetlands and its	
		associated waterbirds are of special conservation interest for	
		Wetland & Waterbirds.	
Lough Sheelin Special	Great Crested Grebe [A005]	Ireland supports approximately 3,500 wintering Great Crested	Pochard, Tufted Duck and
Protection Area [004065]	As detailed above.	Grebe. It is estimated that c.43% occur in SPAs.	Goldeneye are on the Open
Site Area: 1901.7ha		Approximately 140 Great crested grebe winter at Lough	Season Order of listed birds that
Lough Sheelin is a medium- to		Sheelin, equivalent to 4% of the wintering population in the	may be hunted between the
large-sized lake, with a		Member State, and 9.3% of the total SPA contribution for this	period beginning 1 September in
maximum length of 7 km. The		species.	each year and ending on 31
lake lies near the top of the	Pochard [A059]	Ireland supports approximately 40,000, wintering Pochard. It is	January in the year immediately
catchment of the Inny River, a	During the winter Pochard frequent	estimated that c.60% of these individuals occur in SPAs. 546	following that year. Lough Sheelin
main tributary of the River	similar habitats to those it breeds in,	Pochard (average 5 year peak 1995 – 2000) winter at Lough	is not a listed Wildfowl Sanctuary
Shannon.	including large lakes slow-flowing rivers,	Sheelin, equivalent to 1.3% of the wintering population in the	(exclusion zone), therefore
	reservoirs, brackish waters, marshes and	Member State, and 2.2% of the total SPA contribution for this	hunting is a threat to the
	flooded gravel pits. Pochard will shift to	species.	maintenance of the population.
	coastal habitats such as brackish		Trophic status of the lake has
	lagoons, tidal estuaries and inshore		varied greatly since the 1970s
	waters. Pochard prefer waterbodies less		due to pollution from mainly

recently (1998-2000) classified as due to drainage; and, recreational vegetation, changes in hydrology Threats therefore centre heavily on deterioration in water quality. Other threats are loss of fringe agricultural sources. It was a highly eutrophic system. Policies & Objectives: disturbance. RH012 RH09 A-P2 A-01 HP2 H01 90H R01 average peak number of 762 individuals, equivalent to 1.9% of the wintering population in the Member State, and 3.6% of the estimated that c.77% of the wintering population occurs within reland supports approximately 40,000 wintering Tufted Duck approximately 11,000 individual Goldeneye each winter. It is In Ireland the species winters mainly on large rivers, loughs, 225 individuals, equivalent to 2% of the wintering population SPAs. Lough Sheelin supports an average peak number of population occurs within SPAs. Lough Sheelin supports an turloughs and reservoirs. The species is restricted to water close to the shore and less than 10 m deep (showing a each winter. It is estimated that c.51% of the wintering preference for waters 4 m deep). Ireland supports total SAC contribution for this species. and green parts of aquatic plants, aquatic lakes, ponds and reservoirs, though they wintering population is large (>1,200,000 diving, with 80% of the diet consisting of animal material, but also feed on seeds grasses, sedges and aquatic plants, as gregarious, preferring large, freshwater breeder in northern and central Europe, insects and crustaceans. Its European than 3 m deep, diving to the bottom to well as invertebrates, amphibians and which holds less than half of its global sheltered seacoasts and on brackish Goldeneye [A067] is a widespread inland seas in winter. They feed by forage. They feed on seeds, roots, population. Its European wintering are also found in estuaries, along In winter, Tufted Ducks are highly population is large (>310,000 Tufted Duck [ A061] individuals). individuals) small fish.

and Tufted Duck are on the Open period beginning 1 September in is not a listed Wildfowl Sanctuary following that year. Lough Kinale Season Order of listed birds that eutrophication; the loss of fringe January in the year immediately As for Lough Sheelin, Pochard, system. Threats are continued maintenance of the population. Kinale has varied greatly since the 1970s due to pollution and classified as a highly eutrophic reclamation and development; was also recently (1998-2000) vegetation due to agricultural may be hunted between the changes in hydrology due to each year and ending on 31 The trophic status of Lough (exclusion zone), therefore hunting is a threat to the nutrient enrichment and Ireland supports approximately 40,000, wintering Pochard. It is wintering population within the Member State, and 2.2% of the population occurs within SPAs. Lough Kinale supports a peak Ireland supports approximately 40,000 wintering Tufted Duck average number of 449 individuals, equivalent to 1.1% of the individuals, equivalent to 2.3% of the wintering population estimated that c.60% of these individuals occur in SPAs. each winter. It is estimated that c.51% of the wintering Lough Kinale supports a peak average number of 951 within the Member State, and 3.9% of the total SPA within the Member State, and 2.5%of the total SPA total SPA contribution for this species. contribution for this species. contribution for this species. As detailed above. As detailed above. Wetland & Waterbirds [A999] Wetland & Waterbirds [A999] Tufted Duck [ A061] As detailed above. As detailed above. Pochard [A059] Lough Kinale is a relatively small ake that is situated immediately downstream of Lough Sheelin. basins, almost separated by Lough Kinale has two main Protection Area [004061] Lough Kinale Special Site Area: 282.3ha swamp formations.

			drainage; and, recreational
			disturbance.
			Policies & Objectives:
			<b>НР2, НО1, Н06, RO1, RH09,</b>
			RH012, A-01, A-P2
River Boyne & River	Kingfisher Alcedo atthis	The survey undertaken in 2010 by Cummins et al. 2010	Destruction and loss of riparian
Blackwater Special Protection	[breeding] [A229]	estimated 15 probable and 4 possible breeding pairs within the	banks (nest sites); human
Area [004232]	Kingfishers are relatively widespread	River Boyne, representing some of the highest numbers per	disturbance at nest sites during
Site Area: 460.3ha	throughout Ireland with a more easterly	kilometre recorded during the survey (0.09 – 0.12 territories	the breeding season; predation
	bias in their distribution, however are	per km). Estimates of national population were not provided in	from domestic cats, rats and
	considered to be a bird of conservation	Cummins et al. 2010 due to the site specific focus of the study.	mink; and, river pollution
	concern (Amber listed).	Gibbons et al. 1993 present estimates of between 1,300 –	
		2,100 breeding pairs in Ireland. The SPA therefore represents	Policies & Objectives:
		between c.0.9 and 1.5% of the national population.	A-01, AP2, R01.

# 3.4 Overview of Natura Sites within 15km of County Cavan

All Natura 2000 sites entirely or partially within a 15km buffer from the county boundary have been included in this assessment in accordance with the Department of Environment, Heritage and Local Government guidance (DoEHLG, 2010). This distance was deemed to be sufficient to cover all likely significant effects which may arise from the implementation of the County Development Plan on Natura 2000 sites. ArcView software using Ordnance Survey maps and NPWS shapefiles were used to identify the boundaries of Natura 2000 Sites within 15km of the Cavan County border. Cavan borders six counties; Leitrim to the west, Fermanagh and Monaghan to the north, Meath to the south-east, Longford to the south-west and Westmeath to the south.

# 3.5 Special Areas of Conservation within 15km of County Cavan

Eight SACs occur within 15km of the Cavan County boundary. Figure 4 shows the location of these sites in relation to County Cavan. Table 4 summarises the designated features of these sites and the potential threat and impacts from policies and objectives in the Draft Cavan County Development Plan

Figure 4. Special Areas of Conservation within 15km of County Cavan.

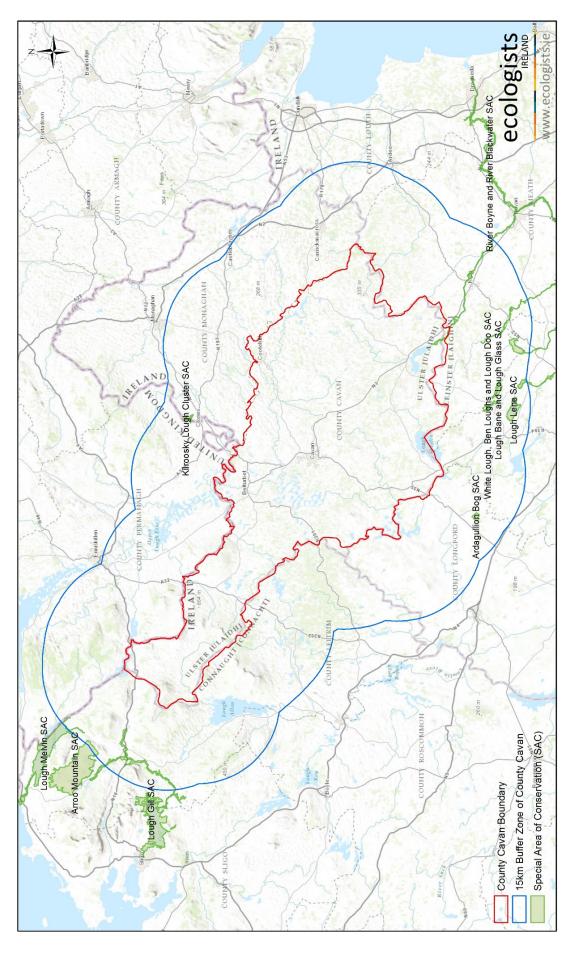


Table 4. Qualifying Features of Special Areas of Conservation within 15km of County Cavan.

NATURA 2000 Site	Qualifying Features	Threats to Site Integrity
Lough Melvin Special Area of Conservation [000428]	Oligotrophic to mesotrophic standing waters with vegetation	Changes in local hydrology; Forestry (sedimentation);
Site Area: 2269.8ha	of the Littorelletea uniflorae and Isoeto-Nanojuncetea [3130]	Peat extraction; Renewable wind-energy development;
	Atlantic Salmon Salmo salar [1106]	Over-grazing; Under-grazing; and, illegal dumping.
	European Otter <i>Lutra lutra</i> [1355]	
		Policies & Objectives: There are no current policies within the Draft Cavan
		County Development Plan that are considered to be
		potential threats to site integrity. This is due to the
		distance of any towns and villages in Cavan from the
		Natura 2000 site.
Aroo Mountain Special Area of Conservation [ 001403]	Blanket Bog (*active only) [7130]	Forestry; Peat extraction; Illegal burning; Renewable
Site Area: 3967.9ha	Northern Atlantic wet heaths with Erica tetralix [4010]	wind-energy development; Over-grazing; Under-grazing;
	Calcareous rocky slopes with chasmophytic vegetation	recreational disturbance (e.g. rock climbing).
	[8210]	
	Petrifying spring with tufa formation (Cratoneurion) [7220]	Policies & Objectives:
	Calcareous and calschist screes of the montane to alpin	There are no current policies within the Drait Cavan County Development Plan that are considered to be
	levels [8120]	potential threats to site integrity. This is due to the
		distance of any towns and villages in Cavan from the
		Natura 2000 site.
Lough Gill Special Area of Conservation [ 001976]	Natural eutrophic lakes with Magnopotamion or	Changes in local hydrology and drainage; Forestry
Site Area: 3298.5ha	Hydrocharition-type vegetation [3150]	(sedimentation); Loss of fringe vegetation to
	Alluvial forests with Alnus-glutinosa and Fraxinus excelsior	development and recreational pressure; illegal removal of
	[91E0]	trees for timber;
		32

	Old sessile oak woods with Ilex and Blechnum [91A0]	
	Sea Lamprey Petromyzon marinus [1095]	Policies & Objectives:
	Brook Lamprey <i>Lampetra planeri</i> [1096] / River Lamprey	There are no current policies within the Draft Cavan County Development Plan that are considered to be
	Atlantic Salmon Salmo salar [1106]	potential threats to site integrity. This is due to the
	European Otter <i>Lutra lutra</i> [1355]	distance of any towns and villages in Cavan from the Natura 2000 site.
	White-clawed Crayfish Austropotamobius pallipes [1092]	
Ardagullion Bog Candidate Special Area of	Active raised bogs [7110].	Changes in local hydrology; Forestry; Peat extraction;
Conservation [002341]		Renewable wind-energy development; Illegal burning;
Site Area: 117.3ha	Degraded raised bogs still capable of natural regeneration	Over-grazing; Under-grazing; and, illegal dumping.
Ardaguillion Bog is located 5 km north-east of	[7120].	
Edgeworthstown, mainly in the townlands of	Depressions on peat substrates of the Rhynchosporion	Policies & Objectives:
Cloonshannagh (Coolamber Manor Demesne) and	[7150].	There are no current policies within the Draft Cavan
Ardaguillon in Co. Longford. The site comprises a		County Development Plan that are considered to be
raised bog that includes both areas of high bog and		potential threats to site integrity. This is due to the
cutover bog.		distance of any towns and villages in Cavan from the
		Natura 2000 site.
Garriskil Bog Candidate Special Area of Conservation	Active raised bogs [7110].	Changes in local hydrology; Forestry; Peat extraction;
[000697]		Renewable wind-energy development; Illegal burning;
Site Area: 324.8ha.	Degraded raised bogs still capable of natural regeneration	Over-grazing; Under-grazing; and, illegal dumping.
This raised bog site lies 3 km west of Lough	[7120].	
Derravaragh and 3 km east of Rathowen. It is bounded	Depressions on peat substrates of the Rhynchosporion	Policies & Objectives:
to the southeast and southwest by the rivers lnny and	[7150].	There are no current policies within the Draft Cavan
Riffey.		County Development Plan that are considered to be
		potential threats to site integrity. This is due to the

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		distance of any towns and villages in Cayan from the
		Natura 2000 site.
Lough Lene Candidate Special Area of Conservation	Hard oligo-mesotrophic waters with benthic vegetation of	Changes in local hydrology; Water abstraction; Nutrient
[002121]	Chara spp [3140].	enrichment from agricultural run-off and development.
Site Area: 489.9ha	White-clawed Crayfish Austropotamobius pallipes [1092].	Loss and fragmentation of fringe vegetation from
This lake is situated 4km north east of Castlepollard in		development and resultant shifts in population density,
Co. Westmeath. It is a deep (20m max.), clear hard-		especially for young life-stages of White-clawed crayfish;
water lake with marl deposition.		and, the spread of invasive American crayfish and
White Lough, Ben Loughs & Lough Doo Candidate	Hard oligo-mesotrophic waters with benthic vegetation of	associated diseases.
Special Area of Conservation [001810]	Chara spp [3140].	
Site Area: 116.3ha.	White-clawed Crayfish Austropotamobius pallipes [1092].	Policies & Objectives:
This site is comprised of four hard water lakes in a		There are no current policies within the Draft Cavan
small, poorly-drained valley, 4 km east of Castlepollard,		County Development Plan that are considered to be
Co. Westmeath.		potential threats to site integrity. This is due to the
Lough Bane & Lough Glass Candidate Special Area	Hard oligo-mesotrophic waters with benthic vegetation of	distance of any towns and villages in Cavan from the
of Conservation [002120]	Chara spp [3140].	Natura 2000 site.
Site Area: 203.5ha.	White-clawed Crayfish Austropotamobius pallipes [1092].	
This site is located on the Meath/Westmeath border,		
about 10 km south of Oldcastle. It comprises three		
lakes situated in a shallow valley. Lough Bane is by far		
the largest of the group, with the much smaller Lough		
Glass occurring immediately to the east and Lough		
Glass North to the north-west. The lakes occur at the		
headwaters of the River Deel, with the main outflow at		
the south-east end of Lough Bane.		

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Kilroosky Lough Cluster Special Area of	Calcareous fens with Cladium mariscus and species of the
Conservation [001786]	Caricion davallianae [7210].
Site Area: 57.6ha.	Hard oligo-mesotrophic waters with benthic vegetation of
Kilroosky Lough Cluster straddles the border with	Chara spp [3140].
Northern Ireland, and is located approximately 2 km	Alkaline Fens [7230].
north-west of Clones, Co. Monaghan. The site consists	White-clawed Crayfish Austropotamobius pallipes [1092].
of three separate areas which contain several calcium-	
rich, clean water (oligo-mesotrophic) lakes and their	
marginal fen vegetation.	

# 3.6 Special Protection Areas within 15km of County Cavan

Two Special Protection Areas are designated within 15km of the Cavan county boundary. Both of these sites are located to the south of County Cavan in SPA (12.2km south of the boundary) is designated for its importance to wintering Waterbirds. Figure 5 shows the location of these SPAs in relation to Cavan County boundary. Table 5 summarises the potential threats and impacts on these sites from policies and objectives within the Draft Cavan County County Westmeath. Garriskil Bog SPA (14.1km south of the boundary) is designated for wintering Greenland white-fronted Goose, while Lough Derravaragh Development Plan.

Figure 5. Special Protection Areas within 15km of County Cavan

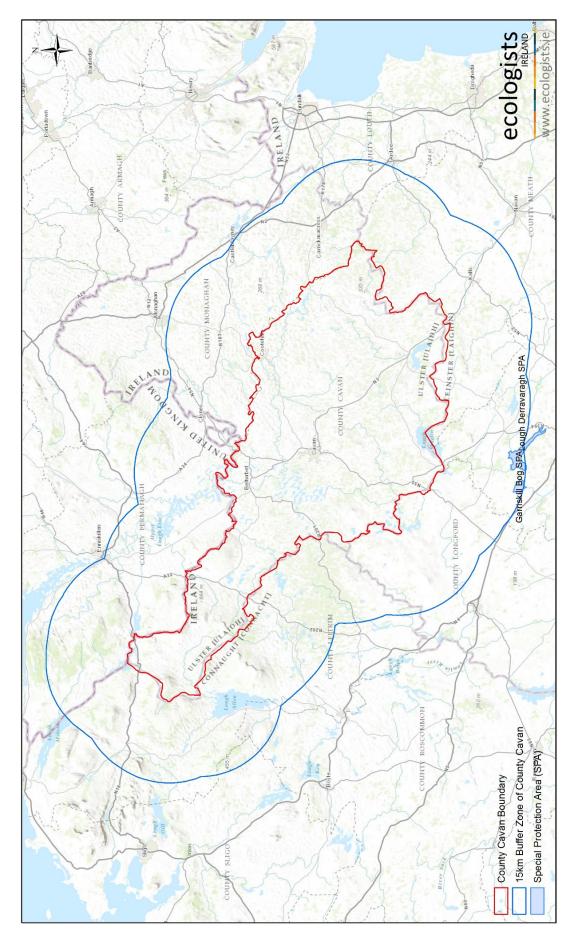


Table 5. Qualifying Features of Special Protection Areas within 15km of County Cavan.

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NATURA 2000 Site	Qualifying Features	Threats to Site Integrity
Garriskil Bog Candidate Special Protection Area	Greenland White-fronted Goose [A395]	Forestry; Changes in local hydrology; Peat extraction; Renewable wind-energy
[004102]		development; Illegal burning; Over-grazing; Under-grazing; and, illegal dumping.
Site Area: 324.25ha		
Site lies 3 km west of Lough Derravaragh in Co.		Policies & Objectives:
Westmeath. It is bounded to the southeast and		There are no current policies within the Draft Cavan County Development Plan
southwest by the rivers Inny and Riffey.		that are considered to be potential threats to site integrity. This is due to the
		distance from the Natura 2000 site (14.1km).
Lough Derravaragh Special Protection Area	Whooper Swan [A038]	Changes in local hydrology; nutrient enrichment from agricultural run-off and
[004043]	Pochard [A059]	waste-water; loss of fringe vegetation or damage to the vegetation sequence as a
Site Area: 1120.4ha	Tufted Duck [ A061]	result of development (e.g., private jetties). Disturbance of roosting birds from
Lough Derravaragh is located approximately 12	Coot [ A125]	recreation.
km north of Mullingar town. It is a medium- to	0001 7120	
large-sized lake of relatively shallow water	Wetland & Waterbirds [A999]	Policies & Objectives:
(maximum depth 23 m). The lake extends along a		There are no current policies within the Draft Cavan County Development Plan
south-east/north-west axis for approximately 8 km.		that are considered to be potential threats to site integrity. This is due to the
The Inny River, a tributary of the River Shannon, is		distance from the Natura 2000 site (12.2km).
the main inflowing and outflowing river.		

# 3.7 Conservation Objectives

To maintain the annexed habitats and species for which the Natura 2000 sites have been designated at a favourable conservation status. The maintenance of habitats and species within Natura 2000 sites at favourable conservation condition will contribute to the overall maintenance of favourable conservation status of those habitats and species at a national level. The favourable conservation status of a habitat is achieved when:

- its natural range, and area it covers within that range, are stable or increasing;
- the specific structure and functions which are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future; and,
- the conservation status of its typical species is favourable;

The favourable conservation status of a species is achieved when:

- population dynamics data on the species concerned indicate that it is maintaining itself on a long-term basis as a viable component of its natural habitats;
- the natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future; and,
- there is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis.

# 4.0 SCREENING OF POTENTIAL LIKELY SIGNIFICANT EFFECTS

### 4.1 Assessment Criteria

4.1.1 Description of the Elements of the Project likely to give rise to Impacts on Natura 2000 sites.

Describe the individual elements of the project (either alone or in combination with other plans or projects) likely to give rise to impacts on the Natura 2000 site.

The Draft Cavan County Development Plan 2014 – 2020 is a robust strategic document developed in combination with a range of European, National and Regional legislation; and, planning guidelines and policy documents pertinent to environmental management. The plan is guided by, and operates within the context of the National Plans and Guidance documents, notably the Border Regional Authority Regional Planning Guidelines 2010 – 2022 and Planning and Development (Amendment) Act 2010.

A key requirement within the planning guidelines is that the Draft Development Plan is subject to a Strategic Environmental Screening Report and Assessment, and to be consistent with the Habitats Directive, subject to an Appropriate Assessment. The Draft Plan serves to clarify and strengthen the core strategy for planning and sustainable development within the County, detailing the locations and projected spatial extent of development within local areas and the required provision of key amenities.

The strategic development proposals in the Draft Cavan County Development Plan are:

- To consolidate the settlement strategy through the provision of appropriate land use objectives in accordance with Regional and National spatial and economic policy; and,
- To ensure that high level strategic spatial policy and more specific objectives potentially impacting
  on the environment are a material legal and procedural consideration in the planning process,
  including the potential for significant impacts on the conservation objectives of Natura 2000 sites.

The Core Strategy determines the level of residential zoning, changes to zoning and the expected or desired land use targets during the lifetime of the Plan. Projected population growth within the town and villagepPlans has resulted in an allocation of 175ha available for development. The residential zoning targets within the Draft Cavan County Development Plan 2014 – 2020 for smaller towns and villages results in no allocation of lands for development. The overall area of land identified for development, notably the number of housing units is therefore significantly reduced.

# 4.1.2 Description of the Likely Impact of the Plan on the Natura 2000 sites.

Describe any likely direct, indirect or secondary impacts of the Plan (either alone or in combination with other plans or projects) on the Natura 2000 site by virtue of:

# Size, scale, area and land take:

The total area of land cover subject to land use zoning objectives in the Draft Cavan County Development Plan 2014 – 2020 is 175ha. These lands areas are allocated to meet the projected demand for residential development as part of town and village plans on the basis of trends in population growth. The Draft Cavan

County Development Plan does not propose any zoning of land within Natura 2000 sites. Notwithstanding this zoning, the Council shall take appropriate steps to avoid the deterioration of these designated sites in accordance with the policies and objectives set out in the Draft Cavan County Development Plan (please refer to Section 4.2 below). The protection of the Natura 2000 network of sites is further strengthened by the additional policies and objectives of the Council relating to Flood Risk Management, the Water Framework Directive and the EU Habitats Directive.

The inclusion within the Plan of the N55 Ballinagh Bypass along the National Secondary Route and the preferred route corridor for the Cavan to Dundalk Strategic Route Improvement Scheme (Dundalk - Shercock - Cootehill - Cavan; R-188, R-192, R-162, R-178) are essential to the future development of the County Cavan. The promotion and development of cycle links will also provide improved resources for recreation and tourism within the County. However, it is important that this infrastructure is delivered in an environmentally sensitive way. The delivery of this infrastructure shall be subject to an Appropriate Assessment in accordance with the requirements of Article 6(3) of the EU Habitats Directive (Directive 92/43/EEC).

No projects giving rise to significant adverse direct, indirect or secondary impacts upon the integrity of any Natura 2000 sites, having regard to their conservation objectives, arising from their size, scale, area and land take, shall be permitted on the basis of the Draft Cavan County Development Plan 2014 - 2020 (either alone or in combination with other plans or projects).

# Distance from Natura 2000 site or key features of the site:

The policies and objectives in the Draft Cavan County Development Plan 2014 – 2020 relevant to the Core Strategy; those conforming to National Strategies, Policies and Guidance; and, the expansion of industry sectors do not apply to any specific location and are considered applicable to the entire County.

Town and Village plans that have allocated areas of land to development and their proximity to Natura 2000 sites are detailed in Table 1. The vast majority of Natura 2000 sites are out-with the sphere of influence for potential impacts from zones for development in the town & village plans, however Ballyconnell and Belturbet village plans are within immediate proximity to Lough Oughter & Associated Loughs SAC. Both village plans have identified a requirement of 15ha of land for development during the lifetime of the Plan. The main potential impacts to this site, and also applicable to the partial overlapping designation of Lough Oughter Complex SPA are changes in hydrology, drainage and deterioration of water quality through nutrient enrichment from agricultural surface water run-off and wastewater treatment.

### Emission (disposal to land, water or air):

The level of water supply and extraction has been considered in relation to the Settlement Framework within the Draft Cavan County Development Plan 2014 - 2020. It is anticipated that population growth will continue in the County's larger towns, however will be slow or cease in the majority of rural villages. The allocation of set areas for development in the Settlement Framework reflects these projected rates of

growth and demand. As detailed in Chapter 4 – Sections 2 & 3 of the Draft Cavan County Development Plan, water conservation and network management is now an integral component of the Water Services Investment Programme – Assessment of Needs 2009 – 2015 and is key to the sustainable use of water resources. The Settlement Framework provides details of respective Water Supply Schemes for each town and village plans. All Water Supply Schemes and Waste Water Treatment Plants are currently working within capacity. There will be no additional water consumption demand as a result of the Draft Plan. The additional policies in respect of Wastewater Disposal as set out in the Draft Plan will strengthen the protection of receiving waters. The Water Framework Directive has set procedures and obligations for managing water resources at River Basin District level and have expedited a comprehensive assessment of water quality within the region and its catchment area. Accordingly, the updated policy in respect of implementation of the recommendations of the River Basin District Plans as set out in the Draft Plan will assist in securing good water quality standards and associated habitats within the region.

# **Duration:**

The period of the Draft Cavan County Development Plan extends to 2020 and will not continue or be applicable beyond this date.

### 4.1.3 Description of Likely Changes to the Natura 2000 sites.

Describe any likely changes to the designated sites arising as result of:

### Reduction of habitat area

The Draft Plan does not propose any additional land take within Natura 2000 sites. The Village Plans for Ballyconnell and Belturbet require the development of 15ha respectively during the lifetime of the Plan and due to the proximity of these settlements to the Lough Oughter & Associated Loughs SAC there are more likely to be pathways of risk to this site through changes in land use within zoned development areas. Prior to any proposed plans or projects commencing each shall be subject to an Appropriate Assessment in accordance with the requirements of Article 6(3) of the EU Habitats Directive (Directive 92/43/EEC).

# Disturbance to key species

No specific plans or proposals in the Draft Plan are considered to represent any significant impacts to key species through disturbance. The Council shall take appropriate steps to avoid the disturbances of key species within designated sites in accordance with the policies and objectives set out in Chapter 8 of the Draft Cavan County Development Plan 2014 - 2020.

# • Habitat or species fragmentation

No specific plans or proposals in the Draft Plan are considered to represent any significant impacts to habitat or species through fragmentation. The Council shall take appropriate steps to avoid the fragmentation of habitat or isolation of populations of annexed species within designated sites in accordance with the policies and objectives set out in Chapter 8 of the Draft Cavan County Development Plan 2014 - 2020.

# • Reduction in species density

No specific plans or proposals in the Draft Plan are considered to represent any decline to species distribution or abundance within Natura 2000 sites. The Council shall take appropriate steps to avoid the reduction in species density within designated sites in accordance with the policies and objectives set out in Chapter 8 of the Draft Cavan County Development Plan 2014 - 2020.

• Changes in key indicators of conservation value (e.g., water-quality, etc.).

Cavan County Council is involved in the management and monitoring of four River Basin Districts (RBDs) each include specific River Basin Management Plans (RBMPs) for the Neagh Bann International River Basin District (NBIRNBF), the Eastern River Basin District (ERBD), Shannon International River Basin District (SIRBD) and the North Western International River Basin District (NWIRBD). Under the Water Framework Directive it is an objective for all waters to achieve at least good water quality status within prescribed timeframes. Cavan County Council is required to meet the environmental objectives of these River Basin Management Plans and the Draft Plan incorporates these principles/targets through the spatial planning process by way of specific development management policies and objectives.

Intrinsically linked to meeting the objectives of the four River Basin Districts is Regulation 42(21(f)) of the European Communities (Birds and Natural Habitats) Regulations 2011 which requires Cavan County Council to consider for Appropriate Assessment consents / licences for Waste Water Treatment Plants. Potential impacts on the conservation objectives of Natura 2000 sites from discharges through deterioration in water quality shall be considered for each Waste Water Discharge Authorisation and that operational discharges conform to the Emission Limit Values (ELVs).

The legal provision of the Water Framework Directive, the European Communities (Birds & Natural Habitats) Regulations 2011 overlap with the requirement of the Planning & Development Acts (as amended) 2010 and the basic measures undertaken by Statutory Authorities to ensure linkages between planning, water services and the environment achieve the objectives of the RBDs.

The implementation of these requirements during the timeline of the Draft Cavan County Development Plan will assist in improving and securing good water quality standards; the favourable extent and condition of habitats dependent on water quality; and, the maintenance of designated species associated with these habitats in the region.

# 4.1.4 The Likely Impacts on the Natura 2000 sites as a whole.

Describe any likely impacts on the Natura 2000 as a whole in terms of:

Interference with the key relationships that define the structure of the site.
 The Draft Plan does not propose any development, plan or projects within any specific Natura 2000 site and therefore it is considered that there will be no potential negative impacts on the relationships that define the structure of Natura 2000 sites.

• Interference with key relationships that define the function of the site.

The Draft Plan does not propose any development, plan or projects within any specific Natura 2000 site and therefore it is considered that there will be no potential impacts on the relationships that define the structure of Natura 2000 sites.

# 4.1.5 Indicators of Significance of the Impacts.

Provide indicators of significance as a result of the identification of effects set out above in terms of:

- Loss
- Fragmentation
- Disruption
- Disturbance
- Change to key elements of the site (e.g., water quality etc.)

The Draft Cavan County Development Plan 2014 - 2020 has been formulated to ensure that uses, development and effects arising from permissions based upon this Draft (either individually or in combination with other plans or projects) shall not give rise to significant adverse impacts on the integrity of any Natura 2000 site. Cavan County Council shall take appropriate steps to avoid the deterioration of these designated sites in accordance with the policies and objectives set out in Chapter 8 of the Draft Cavan County Development Plan.

# 4.1.6 Likely Significance of Potential Impacts

Describe from above those elements of the project or plan, or combination of elements, where the above potential impacts are likely to be significant or where the scale of magnitude of impacts are not known:

The screening process identified all impacts and relevant significance indicators of the Draft Cavan County Development Plan 2014 – 2020. A significant weighting on the conclusions of no significant impacts is based on the following rationale:

That in implementation of the Plan, no areas of habitat that are important for the survival of the designated habitats or species within the Natura 2000 will be:

 Modified or fragmented, destroyed or isolated. No key biogeochemical processes necessary for the survival of the designated features will be impacted, directly or indirectly or in the short to long term.

No ecologically meaningful proportion of habitat, or designated feature dependant on that habitat within the Natura 2000 sites examined in this screening will be:

Seriously impacted (either through loss, damage or deterioration in water quality).

# 4.2 Policies and Objectives protecting Natura 2000 sites

A material consideration in defining the strategy and policies within the Cavan County Development Plan 2014 – 2020 is the regulatory and legal instruments protecting designated sites and their respective conservation objectives. The Plan contains numerous policies and measures which contribute to the conservation objectives of Natura 2000 sites and compliment Cavan County Council's obligation to ensure that the Plan complies with the requirements of the Habitats Directive.

The Plan under Chapter 8 Section 8.6.1 refers to Natura 2000 sites and states:

"Planning Authorities must ensure that an Appropriate Assessment of the implications of proposals on designated Natura Sites is undertaken. This assessment is required for all planning applications which have shown likely significant effects on these sites through a screening process. Screening for Appropriate Assessment applies to all development proposals, either within or outside a Natura 2000".

The screening process involved a review of the proposed policies within the Draft Cavan County Development Plan 2014 - 2020 that implement specific objectives protecting Natura 2000 sites and the environmental conditions that underpin [structure and function] those sites in accordance with the Habitats Directive. The Plan states;

It is the policy of Cavan County Council:

**EI-O2** Carefully examine applications for extractive industries in areas designated as SACs, SPAs, pNHAs and other local designations.

**RT OBJ 32** To implement the Roads Programme for the County in association with the NRA. Various road schemes will be subject to Environmental Impact Assessment and Appropriate Assessment, where necessary.

**NHPOL6** To have regard to the views of the National Parks and Wildlife Service in respect of proposed development where such development may have an impact on a designated National or European site or proposed site for designation.

**NHPOL7** To continue to undertake surveys and collect data that will assist Cavan County Council in building its knowledge base and meeting its obligations under Article 6 of the Habitat Directives.

Objectives:

It is an objective of Cavan County Council to:

NHOBJ3 To ensure an Appropriate Assessment in accordance with Article 6(3) and Article 6(4) of the Habitats Directive, and in accordance with the Department of the Environment, Heritage and Local Government Appropriate Assessment of Plans and Projects in Ireland – Guidance for Planning Authorities, 2009 and relevant EPA and European Commission guidance documents, is carried out in respect of any Plan or Project not directly connected with or necessary to the management of the site but likely to have significant effect on a Natura 2000 site(s), either individually or in combination with other plans or projects, in view of the site's conservation objectives.

**NHOBJ4** To protect and conserve the conservation value of Special Protection Areas, Special Areas of Conservation, Natural Heritage Areas and proposed Natural Heritage Areas as identified by the Minister for Arts, Heritage and the Gaeltacht and any other sites that may be proposed for designation during the lifetime of this plan.

# 4.3 Ecological Coherence of the Natura 2000 Network in County Cavan

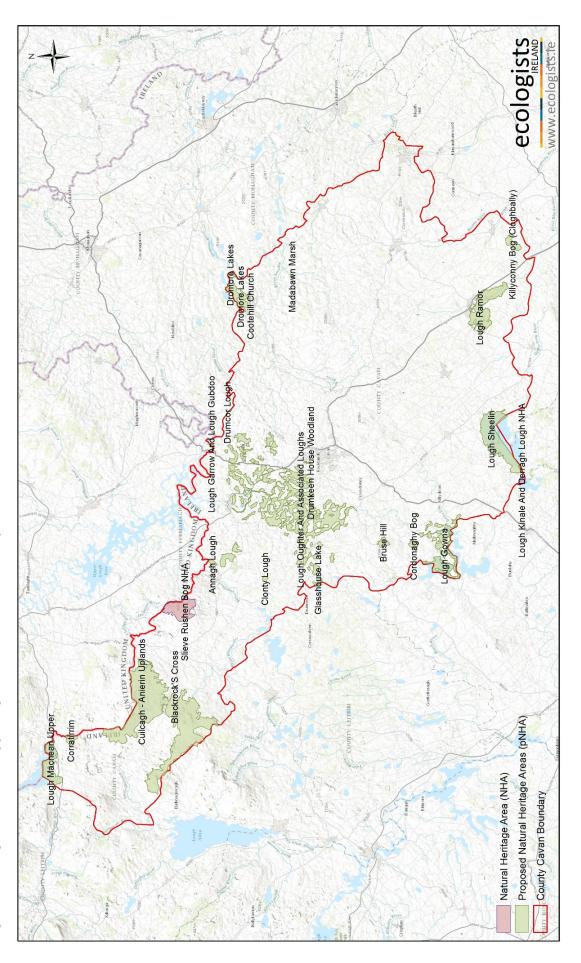
In addition to examining Natura 2000 sites, Natural Heritage Areas (NHAs) and proposed Natural Heritage Areas (pNHAs) are also a material consideration in the screening process. A Natural Heritage Area is an area considered important for the habitats present or which holds species of plants and animals whose habitat needs protection. NHAs are given legal protection through statutory instruments which restrict certain activities that may impact negatively on the features of interest. Proposed Natural Heritage Areas are areas consisting of feature(s) of conservation interest but have not yet received full statutorily designation. Protecting other designated sites of conservation importance serves an important supportive and functional role; retaining ecological coherence in the wider landscape and improving ecosystem health, and, crucially supports the conservation objectives of the Natura 2000 network.

In addition to statutory instruments for NHAs, there is also a key legislative provision in the European Communities (Bird and Habitat) Regulations 2011 that aims to protect annexed habitats that occur outside Special Areas of Conservation. Habitats that are equivalent to those listed, but not within SACs are still classed as priority habitats of international and national importance and under Article 27 (4(b)), the planning authority has a duty to avoid the pollution or deterioration of Annex I habitats.

There are two Natural Heritage Areas in County Cavan, Slieve Rushen Bog NHA, which consists of a plateau of upland blanket bog straddling the border with Co. Fermanagh and is an important site for a declining population of breeding Hen harrier and a very small isolated population of Red Grouse; and, Lough Kinale which is also designated as a Special Protection Area, for its importance in supporting large numbers of wintering Waterbirds.

There are twenty proposed Natural Heritage areas in Cavan and represent a very diverse range of habitats and species of conservation importance. Of relevance to the ecological coherence of the Natura 2000 network will be that more than half of the pNHAs are inter-drumlin lakes and wetlands with a high variance in water chemistry (nutrient levels and pH), size, depth; in the development of fringe communities and the intact/modified vegetation sequences from open water to adjacent terrestrial habitats. Five pNHAs also closely overlap the boundaries of existing SACs.

Figure 6. Ecological Network Supporting Natura 2000 Sites in County Cavan.



4.4 Policies & Objectives Protecting the Ecological Coherence of Natura 2000 sites.

6.0

5.0

6.1 6.2

6.3

Article 10 of the Habitats Directive states that Member States shall endeavour in their land use, planning and development policies, to encourage the management of features of the landscape which are of importance for wild flora and fauna.

# It is a policy of Cavan County Council:

- To conserve the existing wide range of flora, fauna and wildlife habitats in the county through the preservation of ecological corridors and networks vital to the migration, dispersal and genetic exchange of wild species.
- To designate County Biodiversity Sites within the lifetime of this plan and to protect the ecological integrity of these sites.

# It is an objective of Cavan County Council:

- To implement the actions of Cavan County Biodiversity Plan and revisions thereof in fulfilment of the requirements of the National Biodiversity Plan.
- To continue to map the habitat of the county to enable planning for the future development in a sensitive and sustainable manner and this mapping to inform the development management process.

### It is the policy of Cavan County Council:

**EI -P1** To conserve and protect the environment, including in particular, the archaeological and natural heritage, areas of geological or geomorphic interest and conservation and protection of European Designated Sites and any other sites which are protected.

**NH POL3** To ensure the protection of species of flora and fauna afforded legal protection under Irish and European Legislation.

**NHPOL4** To assess the impact on biodiversity of proposals for large developments, particularly those on greenfield sites, or in environmentally sensitive areas. Any such developments where they do occur must include measures for enhancement of biodiversity.

**NHPOL5** Development on or adjacent to National or European designated sites or proposed designated sites during the lifetime of this plan will be permitted only where an assessment has being carried out to the satisfaction of Cavan County Council, in consultation with National Parks and Wildlife Service and indicates that the overall integrity of the site will not be compromised or adversely affected.

WPP1 To protect the water resources of County Cavan.

**WPP2** To protect the rivers streams and lakes and all watercourses in the County in order to promote sustainable and suitable habitats for flora and fauna.

**WPP3** To promote the engagement of developers and regulators in the promotion of sustainable development and to encourage a high standard of environmental protection. The 'precautionary principle' will apply where a significant risk to the environment exists.

**WPP4** To achieve good status in all our waterbodies and prevent the deterioration of existing quality status in all waterbodies in accordance with the requirements of the Water Framework Directive (WFD).

**WLPOL1** To protect existing wetlands from destruction, infilling, fragmentation and degradation.

**WTHSPOL4** To promote and encourage planting of native hedgerow species of local provenance.

**IWW-P2** To protect the biodiversity of rivers, streams and other water courses and maintain them in an open state and to discourage the culverting or realignment thereof.

**IWW-P5** To ensure that the County's watercourses are retained for their biodiversity and flood protection values and to conserve and enhance, where possible the wildlife habitats of the county's rivers and riparian zones, lakes, canals and streams which occur outside of designated areas to provide for a network of habitats and biodiversity corridors throughout the county,

# Objectives:

### It is an objective of Cavan County Council to:

**TE&HBEA-O2** To promote the diversification of the rural economy and the growth of rural indigenous industry such as farming, forestry, tourism, while <u>safeguarding the environment</u> and role of the rural area as a strategic asset.

**TE&HBEA-O5** To consider development in rural areas which present substantial employment opportunities having due regard to...[..] Full assessment of any potential environmental effects.

**EI-O3** The Council will require that extractive industry proposals do not adversely impact upon the water environment, including surface water and groundwater quality and quantity, river corridors and associated wetlands.

WPO 1 All applications for development are assessed in terms of the potential impact on the quality of surface waters through the implementation of where applicable the RBMP's objectives and targets set under the following:- Neagh Bann International River Basin District: Water Matters; North Western International River Basin District: Water Matters and the Eastern International River Basin District: Water Matters.

WPO 2 All development applications are assessed in compliance with the European Communities Environmental Objectives on (Surface Waters) Regulations (2009) (S.I.No 272 of 2009) and the European Communities Environmental Objectives Groundwater Regulations 2010 (S.I. No. 9 of 2010).

**F-O4** To resist forestry proposals which would unduly impact on protected views, sensitive upland areas, lands of wildlife interest and in the upper reaches of salmonid rivers which would affect biodiversity.

**ENO13** The following issues will be considered in the assessment of a wind energy development:

Impact of the development on habitats, by direct loss, degradation, fragmentation and impact on habitats outside the site.

Impact of the development on birds through disturbance during construction and operation phase, collision mortality, barrier to movement and loss or degradation of habitats.

**RHO16** To permit infill development, where appropriate, subject to good planning practice in matters of location, siting, design, access, wastewater disposal and the protection of environmentally sensitive areas and areas of high landscape value.

**RHO19** To ensure that applications that are likely to have a significant effect on a Natura 2000 either directly or indirectly site are subject to an appropriate assessment in accordance with Article 6 of the Habitats Directive.

**RHO24** All proposals involving the installation of an on-site wastewater treatment system must be in accordance with the requirements of the EPA Code of Practice Wastewater Treatment and Disposal Systems Serving Single Houses (2009) or any subsequent Code of Practice which supersedes it.

**RT OBJ 29** To have regard to the Cavan County Local Biodiversity Action Plan 2009-2014 in the provision of any new Council roads.

**WLOBJ1** To resist development that would destroy, fragment and degrade wetlands.

As detailed above the Draft Cavan County Development Plan 2014 – 2020 has many amendments within policies and objectives that serve to pre-emptively avoid and minimise risks to Natura 2000 sites. Many of these policies and objectives reinforce the statutory authorities' obligation to comply with environmental legislation and serve to promote the importance of other areas designated for conservation interest and strengthen the protection of ecologically importance networks within the County.

# 5.0 CONCLUSIONS

This Stage 1: Screening for Appropriate Assessment of the Draft Cavan County Development Plan 2014 – 2020 has been conducted in accordance with the "Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC" as published by the European Commission and "Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities" published by the Department of Environment, Heritage and Local Government. In view of the information presented for consideration from the statutory consultees, and on implementation of the Draft Core Strategy; Settlement Framework (town and village plans); and, Zoning policies, it is objectively concluded that there are likely to be no significant effects on the Natura 2000 sites and that appropriate protection and mitigation, where necessary, in respect of Natura 2000 Network has been formulated within the Draft Cavan County Development Plan (as outlined in 4.2) to ensure that changes in land utility, development and the potential impacts from permissions based on policies and objectives detailed in the Plan conform to the requirements of the European Communities (Birds & Natural Habitats) Regulations 2011.

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# STAGE 1 SCREENING FOR APPROPRIATE ASSESSMENT

# FINDING OF NO SIGNIFICANT EFFECTS REPORT MATRIX (FONSE)

In accordance with Article 6(3) and 6(4) of the Habitats Directive 92/43/EEC

	1
Development Type	Draft Cavan County Development Plan 2014 - 2020
Development Location	County Cavan including surrounding lands within 15km of the county boundary.
Natura 2000 site(s) within impact zone	Boleybrack Mountain Special Area of Conservation [002032]
*Sites listed in bold within County Cavan	Cuilcagh – Anierin Uplands Special Area of Conservation [000584]
	Lough Oughter & Associated Loughs [000007]
	River Boyne & River Blackwater Special Area of Conservation [002299]
	Lough Oughter Special Protection Area [004049]
	Lough Sheelin Special Protection Area [004065]
	Lough Kinale Special Protection Area [004061]
	River Boyne & River Blackwater Special Protection Area [004232]
	Lough Melvin Special Area of Conservation [000428]
	Aroo Mountain Special Area of Conservation [001403]
	Lough Gill Special Area of Conservation [ 001976]
	Ardagullion Bog Candidate Special Area of Conservation [00234]
	Lough Lene Candidate Special Area of Conservation [002121]
	White Lough, Ben Loughs & Lough Doo Candidate Special Area of Conservation [001810]
	Lough Bane & Lough Glass Candidate Special Area of Conservation [002120] Kilroosky Lough Cluster Special Area of Conservation [001786]

	Garriskill Bog Candidate Special Protection Area [004102]
	Lough Derravaragh Special Protection Area [004043]
Qualifying interests of Natura 2000 site(s)	Natural dystrophic lakes and ponds [3160]
	Northern Atlantic wet heaths with <i>Erica tetralix</i> [4010]
	European dry heaths [4030]
	Molinia meadows on calcareous, peaty or clayey- silt-laden soils (Molinion caeruleae) [6410]
	Blanket bogs (*if active only) [7130]
	Active raised bogs [7110]
	Degraded raised bogs still capable of natural regeneration [7120]
	Limestone pavements [8240]
	Natural dystrophic lakes and ponds [3160]
	Species rich <i>Nardus</i> grasslands, on siliceous substrates in mountain areas [6230]
	Siliceous rocky slopes with chasmophytic vegetation [8220]
	Alkaline Fens [7230]
	Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus</i> excelsior [91E0]
	Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and <i>Isoeto-Nanojuncetea</i> [ 3130]
	Petrifying spring with tufa formation (Cratoneurion) [7220]
	Calcareous and calschist screes of the montane to alpine levels [8120]
	Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> -type vegetation [3150]
	Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> [91A0]
	Depressions on peat substrates of the <i>Rhynchosporion</i> [7150].
	Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp [3140].
	Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> [7210].
	Sea Lamprey [1095]
	Brook Lamprey [1096]
	River Lamprey [1099]
	Atlantic Salmon [1106]

European Otter [1355]
White-clawed Crayfish [1092]
Wetland & Waterbirds [A999]
Great Crested Grebe [A005]
Whooper Swan [A038]
Wigeon [A050]
Pochard [A059]
Tufted Duck [ A061]
Goldeneye [A067]
Kingfisher [A229]
Greenland White-fronted Goose [A395]
Coot [ A125]

1.0 Name of project or plan	: Draft Cavan County Development Plan 2014 - 2020
Name and location of Natura 2000 site:	The Draft Cavan County Development Plan does not relate to any one Natura 2000 site and considers all sites within County Cavan and within a recommended 15km buffer zone.
Description of the project or plan	The Plan establishes a framework for the co-ordinated and sustainable economic, social, cultural and environmental development of County Cavan. The Plan details the policies and objectives of Cavan County Council's vision for the spatial and sectoral development of Cavan over the period from 2014 – 2020. The Plan also serves as a point of reference for statutory authorities, planners, developers and the general public on how development proposals are likely to be assessed.
Is the project or plan directly connected with or necessary to the management of the site (provide details)?	The Draft Cavan County Development Plan 2014 - 2020 is not directly connected with or necessary to the management of the Natura 2000 Network. The Plan provides the strategic direction and policy against which proposed developments are based. A material consideration in that strategy and respective policy platform is the regulatory and legal instruments protecting designated sites with a specific focus on the key conservation objectives of those sites.
Are there other projects or plans that together with the project or plan being assessed could affect the site (provide details)?	This Draft Plan once adopted will form the County Development Plan. The Plan sets the framework for the sustainable development of the County over a six year period. It is the primary document for the setting out of the councils aim, policies and objectives in terms of land use planning. In doing so it must be consistent with, and ensure the implementation of National and Regional Plans and Guidelines as well as a host of other European, National and Regional Legislation, in terms of the management of the environment.

### 2.0 The assessment of significance of effects

Describe how the project or plan (alone or in combination) is likely to affect the Natura 2000 Site. The policies and objectives detailed in Draft Plan will have the effect of strengthening the management of and enhancing the protection of Natura 2000 sites within County Cavan.

Explain why these effects are not considered significant.

Specific policies and objectives have been formulated within the Draft Cavan County Development Plan 2014 - 2020 to allow the Council to take appropriate steps to avoid the deterioration of Natura 2000 sites.

The legal provision of the Water Framework Directive and the European Communities (Birds & Natural Habitats) Regulations 2011 overlap with the requirement of the Planning & Development Acts (as amended) 2010 and ensure linkages between planning and environment legislation in achieving the conservation objectives of the Natura 2000 Network.

The Draft Cavan County Development Plan 2014 – 2020 has many amendments within policies and objectives that serve to pre-emptively avoid and minimise risks to Natura 2000 sites. Many of these policies and objectives reinforce the statutory authorities' obligation to comply with environmental legislation and serve to promote the importance of other areas designated for conservation interest and strengthen the protection of ecologically importance networks within the County.

The implementation of these policies and objectives during the timeline of the Draft Cavan County Development Plan therefore serve to provide a proactive approach to environmental legislation, promote awareness of environmental issues within the County; and protect the favourable extent and condition of habitats within and out-with Natura 2000 sites.

List of agencies consulted: provide contact name and telephone or email address

### **National Parks & Wildlife Service**

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# **Heritage Council**

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Response to consultation:

Provision of information relating to existing and potential future threats to Natura 2000 site integrity within relevant jurisdictions.

# 3.0 Data collected to carry out the assessment

Who carried out the assessment?	Sources of data	Level of assessment completed	Where can the full results of the assessment be accessed and viewed
Ryan Wilson-Parr B.Sc (Hons) M.Res CMIEEM Director Ecologists Ireland For and on behalf of Cavan County Council.	National Parks and Wildlife Services; Heritage Council; Draft Cavan County Development Plan 2014-2020; The Draft Strategic Environmental Assessment (SEA) Screening Report for the Draft Cavan County Development Plan 2014 – 2020. Settlement Framework and respective Town and Village Plans.	Stage 1: Screening for Appropriate Assessment	This report titled:  Wilson-Parr, 2013. Stage 1: Screening for Appropriate Assessment pursuant to Article 6(3) of the Habitats Directive 92/43/EEC on Plans & Projects significantly affecting Natura 2000 Sites. Draft Cavan County Development Plan 2014 – 2020.

# **Overall Conclusions**

The screening process identified all impacts and relevant significance indicators of the Draft Cavan County Development Plan 2014 – 2020.

No areas of habitat that are important for the survival of the designated features/species within the Natura 2000 sites will be:

Modified or fragmented, destroyed or isolated. No key biogeochemical processes necessary
for the survival of the designated features will be impacted, directly or indirectly or in the
short to long term.

No ecologically meaningful proportion of the habitat of designated feature of the Natura 2000 sites will be:

• Seriously impacted (either through loss, damage or deterioration in water quality).

It can be objectively concluded that there are not likely to be significant effects on the Natura 2000 site(s) arising from the Draft Cavan County Development Plan 2014 – 2020.