

Limerick and Clare Sports and Physical Recreation Strategy

Habitats Directive Screening Report June 2013

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Abbreviations

ACA Architectural Conservation Area

cSAC Candidate Special Area of Conservation

CSO Central Statistics Office

DoCMNR Department of Communications, Marine & Natural Resources

DoECLG Department of the Environment, Community and Local Government

EIA Environmental Impact Assessment
EPA Environmental Protection Agency

ER Environmental Report

EU European Union

GHG Green House Gas Emissions

GIS Geographical Information Systems

GSI Geological Survey of Ireland
HDA Habitats Directive Assessment

EHDA Extended Habitats Directive Assessment

IGHP Irish Geological Heritage Programme

LAP Local Area Plan

LCEA Limerick Clare Energy Agency

LCSPRS Limerick and Clare Sports and Physical Recreation Strategy

MWRA Mid West Regional Authority

MWRPG Mid West Regional Planning Guidelines

NDP National Development Plan

NGO Non Governmental Organisation

NHA Natural Heritage Area

NIAH National Inventory of Architectural Heritage

NO2 Nitrogen dioxide

NPWS National Parks and Wildlife Service

NRA National Roads Authority
NSS National Spatial Strategy
NTS Non-Technical Summary

O3 Ozone

OPW Office of Public Works

P/P Plan/Programme

pNHA Proposed Natural Heritage Area

POMS Programme of Measures

PPP Public Private Partnership

RBD River Basin District

RBMP River Basin Management Plans
RMP Record of Monuments and Places

RPG Regional Planning Guidelines

RPS Record of Protected Structures

RWP The Rural Water Programme

S.I. No. Statutory Instrument Number

SAA Shannon Airport Authority

SAC Special Area of Conservation SDZ Strategic Development Zone

SEA Strategic Environmental Assessment

SEO Strategic Environmental Objective

SFRA Strategic Flood Risk Assessment

SIRBD Shannon International River Basin District

SO₂ Sulphur dioxide

SPA Special Protection Area

SuDS Sustainable Drainage Systems

WFD Water Framework Directive

WMU Water Management Units

WRBD Western River Basin District

WSIP The Water Services Investment Programme

WWTP Waste Water Treatment Plant

Glossary

Alternatives (Reasonable)

Alternatives should take into account the objectives and geographical scope of the P/P. There can be different ways of fulfilling the P/P objectives, or of dealing with environmental problems. The alternatives should be realistic, capable of implementation and should fall within the legal and geographical competence of the authority concerned.

Appropriate Assessment

An assessment of the effects of a plan or project on the Natura 2000 network. The Natura 2000 network comprises Special Protection Areas under the Birds Directive, Special Areas of Conservation under the Habitats Directive and Ramsar sites designated under the Ramsar Convention (collectively referred to as European sites).

Baseline Environment

A description of the present state of the environment of the P/P area.

Baseline Survey

Description of the existing environment against which future changes can be measured.

Biodiversity, Flora and Fauna

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

Biotic Index Values (Q Values)

The Biotic Index Values, or Q values, are assigned to rivers in accordance with biological monitoring of surface waters - low Q ratings, as low as Q1, are indicative of low biodiversity and polluted waters, and high Q ratings, as high as Q5, are indicative of high biodiversity and unpolluted waters. Good status as defined by the Water Framework Directive equates to approximately Q4 in the national scheme of biological classification of rivers as set out by the Environmental Protection Agency.

Birds Directive

EU Council Directive of 2nd April 1979 on the conservation of wild birds (79/409/EEC).

Built Environment

Refers to both architectural heritage and archaeological heritage.

Cumulative Effects

Effects on the environment that result from incremental changes caused by the strategic action together with other past, present, and reasonably foreseeable future actions. These effects can result from individually minor but collectively significant actions taking place over time or space

Data

Includes environmental data, proxy data, and any other relevant statistical data.

Designated Environmental Authority

An organisation that must be consulted in accordance with the SEA Regulations. For Ireland these are the Environmental Protection Agency (EPA), the Department of the Environment, Community and Local Government (DoEHLG) and the Department of Communications, Energy and Natural

Resources (DCENR) and in certain circumstances the Department of Agriculture, Food and the Marine (DAFM) and the Department of Arts, Heritage and the Gaeltacht (DAHG).

Ecology

The study of relationships between living organisms and between organisms and their environment (especially animal and plant communities), their energy flows and their interactions with their surroundings.

Environmental Assessment

The preparation of an environmental report, the carrying out of consultations, the taking into account of the environmental report and the results of the consultations in decision-making and the provision of information on the decision (in accordance with Articles 4 to 9 of the SEA Directive).

Environmental Characteristics

Environmental resources, issues and trends in the area affected by the P/P.

Environmental Impact Assessment (EIA)

An ordered exercise designed to enable the environmental impacts of a proposed development/project to be anticipated before the project is carried out.

Environmental Impact Statement (EIS)

A statement of results from the ordered exercise which focuses on anticipating all environmental impacts of significance of a proposed development, prior to implementation or construction, and which specifies those measures which should be taken to eliminate or mitigate such impacts to an acceptable level.

Environmental Indicator

An environmental indicator is a measure of an environmental variable over time, used to measure achievement of environmental objectives and targets.

Environmental Objective

Environmental objectives are broad, overarching principles which should specify a desired direction of environmental change.

Environmental Problems

Annex I of Directive 2001/42/EC of the European Parliament and of the Council of Ministers, of 27 June 2001, on the assessment of the effects of certain plans and programmes on the environment (the Strategic Environmental Assessment Directive) requires that information is provided on 'any existing environmental problems which are relevant to the plan or programme', thus, helping to ensure that the proposed strategic action does not make existing environmental problems worse. Environmental problems arise where there is a conflict between current environmental conditions and ideal targets. If environmental problems are identified at the outset they can help focus attention on important issues and geographical areas where environmental effects of the plan or programme may be likely.

Environmental Receptors

Include biodiversity, population, human health, fauna, flora, soil, water, air, climatic factors, material assets, cultural heritage (including architectural and archaeological) and landscape as listed in the SEA Directive. This list is not exhaustive, and can include other receptors which may arise for a particular P/P.

Environmental Report (ER)

A document required by the SEA Directive as part of an environmental assessment which identifies, describes and evaluates the likely significant effects on the environment of implementing a plan or programme.

Environmental Targets

A target usually underpins an objective often having a time deadline that should be met and should be accompanied by limits or thresholds.

Environmental Vectors

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

Evolution of the Baseline

A description of the future state of the baseline in the absence of a plan or programme assuming 'business as usual' or 'do nothing' scenarios, depending on which is more reasonable for the P/P being proposed.

Extended Habitats Directive Assessment

This refers to a more detailed assessment of the potential impact of a plan or policy on a Natura 2000 site if an initial screening suggests that a negative impact is likely.

Geographical Information System (GIS)

Refers to a computer system that collects, stores, views and analyses geographical information and commonly creates maps as an output.

Geology

Science of the earth, including the composition, structure and origin of its rocks.

Habitat

Area in which an organism or group of organisms live.

Habitats Directive

EU Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.

Habitats Directive Assessment

An assessment of the effects of a plan or project on the Natura 2000 network. The Natura 2000 network comprises Special Protection Areas under the Birds Directive, Special Areas of Conservation under the Habitats Directive and Ramsar sites designated under the Ramsar Convention (collectively referred to as European sites).

Hierarchy of Plans

Both higher and lower level P/P relevant to the P/P being assessed.

Indirect effect

Any aspect of a P/P that may have an impact (positive or negative) on the environment, but that is not a direct result of the proposed P/P. May also be referred to as a secondary effect.

Interrelationships

Associations or linkages, related to environmental impact of the proposed P/P usually on environmental receptors.

Issues Paper

Paper produced as part of the consultation process, usually for Land Use Plans, to facilitate consultation with stakeholders on key issues.

Invasive Alien Species

Plants or animals which did not originally occur in Ireland before human colonisation of the country and which are expanding their numbers and distribution so as to cause a competitive threat to such native fauna and flora.

Key Environmental Issues

Those significant environmental issues, which are of particular relevance and significance within a P/P area and/or the zone of influence of that P/P. These issues should be identified during SEA Scoping process.

Key Environmental Receptors

Aspects of the environment likely to be significantly impacted by the proposed P/P.

Material Assets

Critical infrastructure essential for the functioning of society such as: electricity generation and distribution, water supply, wastewater treatment transportation etc.

Member States

Those countries that belong to the European Union.

Mitigate

To make or become less severe or harsh.

Mitigation Measures

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

Monitoring A continuing assessment of environmental conditions at and surrounding, the plan or programme. This determines if effects occur as predicted or if operations remain within acceptable limits, and if mitigation measures are as effective as predicted. The primary purpose of monitoring is to identify significant environmental effects which arise during the implementation stage against those predicted during the plan preparation stage.

Monitoring Programme

A detailed description of the monitoring arrangements to be put in place to carry out the monitoring of the impact of the proposed P/P on the environment including; frequency of monitoring, who has responsibility for monitoring, and responses if monitoring identifies significant negative impacts.

Natura 2000 Site

Designated European Site. In combination Special Areas of Conservation and Special Protection Areas will constitute Natura 2000 network of protected sites for habitats and species across the EU.

Natural Heritage

Refers to habitats and species of flora and fauna.

Non-technical Summary

A summary of the findings of the ER, summarized under the headings listed in Annex 1 of the SEA Directive that can be readily understood by decision- makers and by the general public. It should accurately reflect the findings of the ER.

Plan or Programme

Including those co-financed by the European Community, as well as any modifications to them which are subject to preparation and/or adoption by an authority at national, regional or local level or which are prepared by an authority for adoption, through a legislative procedure by Parliament or Government, and which are required by legislative, regulatory or administrative provisions.

In accordance with the SEA Directive, P/P that require SEA are those that fulfill the conditions listed in Article 2(a) and Article 3 of the SEA Directive.

Post-mitigation Residual Impacts

Environmental effects that remain after mitigation measures have been employed.

Protected Structure

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

Proxy Data

Is a measure of activity resulting from a P/P which provides information on environmental impact without the need for a direct measure of an environmental receptor. For example, an increase in the number of vehicles (activity resulting from a P/P) can provide information on the impact on air quality and greenhouse gases without having to measure the concentration of these parameters in the receiving environmental receptor.

Public

One or more natural or legal persons and, in accordance with national legislation or practice, their associations, organisations or groups.

Recorded Monument

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

Scoping

The process of deciding the content and level of detail of an SEA, including the key environmental issues, likely significant environmental effects and alternatives which need to be considered, the assessment methods to be employed, and the structure and contents of the Environmental Report.

Screening

The determination of whether implementation of a P/P would be likely to have significant environmental effects on the environment. The process of deciding whether a P/P requires SEA.

SEA Directive

Directive 2001/42/EC 'on the assessment of the effects of certain plans and programmes on the environment'.

SEA Statement

A statement summarising:

- how environmental considerations have been integrated into the P/P

- how the ER, the opinions of the public and designated authorities, and the results of transboundary consultations have been taken into account
- the reasons for choosing the P/P as adopted in the light of other reasonable alternatives.

Secondary Effect

Effects that are not a direct result of the P/P. This is another name for 'indirect effect'.

Sensitivity

Potential for significant change to any element in the environment that is subject to impacts.

Short-term Effects

These are typical of those effects that may occur during construction stage of a development, for example, the increased traffic going to and from a site during construction, or, the noise associated with construction activities.

Significant Effects

Effects on the environment, including on issues such as biodiversity, population, human health, fauna, flora, soil, water, air, climatic factors, material assets, cultural heritage including architectural and archaeological heritage, landscape and the interrelationship between the above factors.

SPA

Special Protection Area under Birds Directive (79/409/EEC), designated for bird species listed in Annex I of the Directive, in particular internationally important concentrations of migratory and wetland birds. Designation is focused on habitats of these species.

Statutory Authority

The authority by which or on whose behalf the plan or programme is prepared.

Statutory Instrument

Any order, regulation, rule, scheme or bye-law made in exercise of a power conferred by statute.

Strategic Actions

Strategic actions include: Policies, which may be considered as inspiration and guidance for action and which set the framework for plans and programmes; Plans, sets of co-ordinated and timed objectives for the implementation of the policy; and Programmes, sets of projects in a particular area.

Strategic Environmental Assessment (SEA)

Strategic Environmental Assessment (SEA) is the formal, systematic evaluation of the likely significant environmental effects of implementing a plan or programme before a decision is made to adopt it. The objective of this Directive is to provide for a high level of protection of the environment and to contribute to the integration of environmental considerations into the preparation and adoption of plans and programmes with a view to promoting sustainable development, by ensuring that, in accordance with this Directive, an environmental assessment is carried out of certain plans and programmes which are likely to have significant effects on the environment.

Strategic Environmental Objective (SEO)

Strategic Environmental Objectives (SEOs) are methodological measures which are developed from international, national and regional policies which generally govern environmental protection objectives and against which environmental effects can be tested.

Synergistic Effect

Effects that, when totaled, result in a greater or lesser effect than the sum of the individual effects.

Threshold

Magnitude of a project, which if exceeded, will trigger the requirement for an Environmental Impact Assessment.

Transboundary Consultation

If a plan or programme is being prepared that is likely to have significant effects on the environment in another Member State, or where a Member State likely to be significantly affected so requests, the Member State in whose territory the plan or programme is being prepared shall, before the plan or programmes adoption or submission to the legislative procedure, forward a copy of the draft plan or programme and the relevant environmental report to the other Member State.

Zone of Influence

The area over which a plan can impact on the environment.

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1 Habitats Directive Assessment - Screening

1.1 Background

In circumstances in which it is possible that a plan or programme might impact negatively on a Natura 2000 site it is necessary to carry out an assessment as to the nature of that impact and to ascertain whether mitigation measures are possible. If such measures are not possible strategies which would result in damage to a Natura 2000 site are presumed not to be acceptable other than in exceptional circumstances.

A number of potential impacts on Natura 2000 sites have been identified that could arise from actions that would be taken in the context of the LCSPRS if adequate mitigation measures were not taken. In order to ensure that appropriate protection is given to the Natura 2000 sites, certain policies and projects in the LCSPRS has been made conditional on adequate evaluations and mitigations being carried out at project level to ensure that these priority habitats are not damaged.

These conditions have been incorporated into the LCSPRS and are denoted in the LCSPRS as having arisen from the SEA or HDA screening process.

The SAC and SPA descriptions in the following table are direct quotes or edited extracts from the site synopses from the National Parks and Wildlife Service (NPWS, 2009).

1.2 Conclusion

The Sports and Physical Recreation Strategy, does not identify areas or sites for development that are sufficiently specific to permit or require a detailed assessment of their impact on any Natura 2000 site. Such assessments, where necessary, should be carried out when a specific project is being considered. However, the general environmental conditions incorporated in the strategy provide adequate protection to Natura 2000 sites.

SAC	County	Description	Mitigation	Condition
Ballyallia Lake	Clare	A naturally eutrophic lake situated on the		No development shall be
		River Fergus approximately 4 km north of		permitted or specific policy
		Ennis. Also an SPA. Includes Lough		adopted unless an EHDA has been
		Girroga.		carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Ballycullinan Lake	Clare	A calcareous lake situated approximately 2		No development or activity shall
		km south of Corrofin. A <i>Cladium</i> fen site.		be permitted unless an EHDA has
		Includes a series of smaller lakes to the		been carried out and it has been
		north-east.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be

SAC	County	Description	Mitigation	Condition
				satisfactorily mitigated
Ballyogan Lough	Clare	A complex of limestone pavement, scrub woodland, lake and fen situated about 10 km east of Corrofin. Cladium fen.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this has concluded either that no negative impact would arise or that any such impacts can be satisfactorily mitigated
Black Head-Poulsallagh Complex	Clare	Encompasses a complete range of rocky Burren habitats from coastal, glacially planed limestone pavements to high level heaths. Includes the Caher River and Fanore dunes. Of international scientific interest.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this has concluded either that no

SAC	County	Description	Mitigation	Condition
				negative impact would arise or that any such impacts can be
				satisfactorily mitigated
<u>Danes Hole, Poulnalecka</u>	Clare	A small fossil cave in the banks of the		No development or activity shall
		Ahaclare River situated within a wood		be permitted unless an EHDA has
		approximately 4 km west of Broadford.		been carried out and it has been concluded that no threat to the
		Site of international importance for the Lesser Horseshoe Bat. A nearby summer		habitat exists or that any threat
		roost for the bat and the commuting		that might exist can be mitigated
		routes between the two are also included.		that might exist can be mitigated
Dramara Waads and	Clare	Situated in central Clare 9 km north-north-		No dovolopment or activity shall
Dromore Woods and	Clare	west of Ennis. Contains a mosaic of		No development or activity shall
Loughs		different habitats. Includes several lakes		be permitted unless an EHDA has been carried out and it has been
				concluded that no threat to the
		which are mostly linked by the River Fergus. Habitat for Pine Marten, Otter and		
				habitat exists or that any threat
		a Lesser Horseshoe Bat population of		that might exist can be mitigated
		international importance.		No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
Inach Diver Estuan	Clava	An estuarine channel that flows westwards		satisfactorily mitigated
Inagh River Estuary	Clare			No development or activity shall
		to the sea from Ennistimon. Holds		be permitted unless an EHDA has
		examples of five habitat types listed in the		been carried out and it has been
		EU Habitats Directive.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated

SAC	County	Description	Mitigation	Condition
				No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this has concluded either that no negative impact would arise or that any such impacts can be satisfactorily mitigated
Pouladatig Cave	Clare	A natural limestone cave, west of Ennis. A hibernating site for the Lesser Horseshoe Bat. Of international importance.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Lough Gash Turlough	Clare	West of Newmarket-on-Fergus. One of the latest turloughs to dry out in any year. Habitat to two rare plant species.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Moneen Mountain	Clare	A large, composite site situated in north County Clare. Extends inland from Muckinish Point and includes all of the higher ground between Ballyvaughan and Bell Harbour in a southerly direction for approximately 20km. The bulk of the site is made up of limestone pavement. Contains a breeding colony of Lesser Horseshoe Bats. Of international scientific importance.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated

SAC	County	Description	Mitigation	Condition
Moyree River System	Clare	Situated in a sheltered valley on the south-		No development or activity shall
		eastern fringe of the Burren. Contains		be permitted unless an EHDA has
		good examples of four habitats listed on		been carried out and it has been
		Annex I of the EU Habitats Directive.		concluded that no threat to the
		Internationally important summer roosting		habitat exists or that any threat
		and hibernation site for Lesser Horseshoe		that might exist can be mitigated
		Bats.		
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Poulnagordon Cave	Clare	A natural limestone cave used as a		No development or activity shall
(Quin)		hibernation site by the Lesser Horseshoe		be permitted unless an EHDA has
		Bat.		been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Galway Bay Complex	Clare	Comprises the inner, shallow part of the		No development or activity shall
		large Galway Bay. Includes a diverse range		be permitted unless an EHDA has
		of marine, coastal and terrestrial habitats.		been carried out and it has been
		Of immense conservation importance, with		concluded that no threat to the
		many habitats listed on Annex I of the EU		habitat exists or that any threat
		Habitats Directive.		that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative

SAC	County	Description	Mitigation	Condition
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Loughatorick South Bog	Clare	Blanket bog about 8 km north-west of		No development or activity shall
		Mountshannon, straddling the		be permitted unless an EHDA has
		Clare/Galway border.		been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Ballyteige	Clare	Wet meadow and heath, located 2 km		No development or activity shall
		west of Lisdoonvarna.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Ballyvaughan Turlough	Clare	A turlough situated about 1.5 km south-		No development or activity shall
		west of Ballyvaughan.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Glenomra Wood	Clare	Deciduous wood located in south-east		No development or activity shall
		Clare, about 10 km north of Limerick City.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated

SAC	County	Description	Mitigation	Condition
Carrowmore Point To	Clare	Extends along the Clare coastline from		No development or activity shall
Spanish Point and		Spanish Point (3 km west of Milltown		be permitted unless an EHDA has
Islands		Malbay), in a south-south-westerly		been carried out and it has been
		direction to Carrowmore Point. The		concluded that no threat to the
		presence of a lagoon and petrifying springs		habitat exists or that any threat
		are of particular significance.		that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Termon Lough	Clare	A turlough situated approximately 6 km		No development or activity shall
		south-west of Gort.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated

SAC	County	Description	Mitigation	Condition
Glendree Bog	Clare	Highland blanket bog located in the Slieve		No development or activity shall
		Aughty range 13 km west-north-west of		be permitted unless an EHDA has
		Scarriff.		been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
East Burren Complex	Clare	This large site incorporates all of the high		No development or activity shall
		ground in the east Burren, and extends		be permitted unless an EHDA has
		south-eastwards to include a complex of		been carried out and it has been
		calcareous wetlands. Of international		concluded that no threat to the
		scientific interest.		habitat exists or that any threat
				that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Old Domestic Building	Clare	Breeding site of the Lesser Horseshoe Bat		No development or activity shall
(Keevagh)		near the village of Quin.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Newhall and Edenvale	Clare	Natural fossil limestone caves south of		No development or activity shall
Complex		Ennis, used by the Lesser Horseshoe Bat.		be permitted unless an EHDA has
		One of the most important sites in Europe		been carried out and it has been

SAC	County	Description	Mitigation	Condition
		for the species.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Pollagoona Bog	Clare	Small blanket bog beside Lough Atorick,		No development or activity shall
		close to the Clare-Galway county		be permitted unless an EHDA has
		boundary.		been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Newgrove House	Clare	A hibernating site for the Lesser Horseshoe		No development or activity shall
		Bat, near Tulla.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Lower River Shannon	Clare and	This very large site stretches along the		No development or activity shall
	Limerick	Shannon valley from Killaloe to Loop Head/		be permitted unless an EHDA has
		Kerry Head, a distance of some 120 km.		been carried out and it has been
		The site thus encompasses the Shannon,		concluded that no threat to the
		Feale, Mulkear and Fergus Estuaries, the		habitat exists or that any threat
		freshwater lower reaches of the River		that might exist can be mitigated
		Shannon (between Killaloe and Limerick),		
		the freshwater stretches of much of the		No effluent discharge that would
		Feale and Mulkear catchments and the		be liable to have a negative
		marine area between Loop Head and Kerry		impact on the habitat shall be
		Head. This site is of great ecological		permitted unless and until an
		interest as it contains a high number of		EHDA has been carried and this
		habitats and species listed on Annexes I		has concluded either that no
		and II of the E.U. Habitats Directive. Most		negative impact would arise or
		of the estuarine part of the site has been		that any such impacts can be
		designated a SPA.		satisfactorily mitigated

SAC	County	Description	Mitigation	Condition
Old Farm Buildings,	Clare	Breeding site for the Lesser Horseshoe Bat,		No development or activity shall
Ballymacrogan		near Ruan.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Ballycullinan, Old	Clare	Breeding site for the Lesser Horseshoe Bat,		No development or activity shall
Domestic Building		east of Ballycullinan Lough.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Toonagh Estate	Clare	Nursery roost for the Lesser Horseshoe		No development or activity shall
		Bat, north-west of Ennis.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Carrowmore Dunes	Clare	Situated on the south-western coast of		No development or activity shall
		County Clare, roughly midway between		be permitted unless an EHDA has
		Milltown Malbay and Kilkee, and extends		been carried out and it has been
		from Carrowmore Point in the north to		concluded that no threat to the
		Doonbeg Bay in the south. Of considerable		habitat exists or that any threat
		conservation significance. Supports a		that might exist can be mitigated
		population of rare snail.		
Kilkee Reefs	Clare	Situated north of the River Shannon		No development or activity shall
		estuary on the Co. Clare coast. The site		be permitted unless an EHDA has
		stretches for approximately 12 km from		been carried out and it has been
		Ballard Bay to Castle Point.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated

SAC	County	Description	Mitigation	Condition
				No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this has concluded either that no negative impact would arise or that any such impacts can be satisfactorily mitigated
Slieve Bernagh Bog	Clare	Situated to the west of Lough Derg, in the south-east of Co. Clare.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Old Domestic Buildings, Rylane	Clare	Breeding site for the Lesser Horseshoe Bat, near Ruan.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Ratty River Cave	Clare	North of Sixmilebridge. An important winter roost and a breeding site of the Lesser Horseshoe Bat.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Knockanira House	Clare	South-west of Ennis. An important site for the Lesser Horseshoe Bat.		No development or activity shall be permitted unless an EHDA has

SAC	County	Description	Mitigation	Condition
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Kilkishen House	Clare	North of Sixmilebridge. An important site		No development or activity shall
		for the Lesser Horseshoe Bat.		be permitted unless an EHDA has
				been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Tullaher Lough and Bog	Clare	Located 4 km south-east of Doonbeg. A		No development or activity shall
		diverse site comprising of raised bog, wet		be permitted unless an EHDA has
		grassland, improved grassland, scrub		been carried out and it has been
		woodland, alkaline fen and lake.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Curraghchase Woods	Limerick	Approximately 7 km east of Askeaton.		No development or activity shall
		Consists largely of mixed woodland and a		be permitted unless an EHDA has
		series of wetlands. Hibernation site of the		been carried out and it has been
		Lesser Horseshoe Bat.		concluded that no threat to the
				habitat exists or that any threat

SAC	County	Description	Mitigation	Condition
				that might exist can be mitigated
Barrigone	Limerick	Approximately 5km west of Askeaton. An area of dry, species-rich, calcareous grassland and patches of scrub. Rare species of plants and invertebrates present.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Tory Hill	Limerick	An isolated wooded limestone hill situated about 2 km north east of Croom. Includes Lough Nagirra and its associated wetland vegetation. Has good examples of three habitats listed in the E.U. Habitats Directive.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated
Galtee Mountains	Limerick	Ireland's highest range of inland mountains. Supports breeding Peregrine falcons.		No development or activity shall be permitted unless an EHDA has been carried out and it has been concluded that no threat to the habitat exists or that any threat that might exist can be mitigated No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this has concluded either that no negative impact would arise or that any such impacts can be satisfactorily mitigated

SAC	County	Description	Mitigation	Condition
Clare Glen	Limerick	On the Limerick-Tipperary border, in the		No development or activity shall
		western foothills of the Slievefelim		be permitted unless an EHDA has
		Mountains, about 10 km northwest of		been carried out and it has been
		Cappamore. The Killarney Fern is present.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Glen Bog	Limerick	Situated 3 km north-east of Bruff.		No development or activity shall
		Comprises a wet (alluvial) woodland		be permitted unless an EHDA has
		occupying the site of a former lake and the		been carried out and it has been
		summit and southern side of Knockderc.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Glenstal Wood	Limerick	In the western foothills of the Slievefelim		No development or activity shall
		Mountains, about 8 km north-west of		be permitted unless an EHDA has
		Cappamore. Associated with Glenstal		been carried out and it has been
		Abbey. Killarney Fern is present.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
Ballyhoura Mountains	Limerick	The mountains straddle the Co.		No development or activity shall
		Limerick/Co. Cork border and are situated		be permitted unless an EHDA has
		about 10 km south of Kilmallock. Contain		been carried out and it has been
		wet heath, dry heath and blanket bog		concluded that no threat to the
		habitats. The heathland and surrounding		habitat exists or that any threat
		afforested slopes are important for Hen		that might exist can be mitigated
		Harrier and Peregrine.		
Carrigeenamronety Hill	Limerick	3 km south-east of the village of		No development or activity shall
		Ballyorgan. A good population of Killarney		be permitted unless an EHDA has
		Fern is present.		been carried out and it has been
				concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated

SAC	County	Description	Mitigation	Condition
Blackwater River	Limerick	One of the largest rivers in Ireland, draining		No development or activity shall
(Cork/Waterford)		a major part of Co. Cork and five ranges of		be permitted unless an EHDA has
		mountains. Contains 10 habitats and 9		been carried out and it has been
		species listed in the Habitats Directive.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated
				No effluent discharge that would
				be liable to have a negative
				impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or
				that any such impacts can be
				satisfactorily mitigated
Askeaton Fen Complex	Limerick	Consists of a number of small fen areas to		No development or activity shall
		the east and south east of Askeaton.		be permitted unless an EHDA has
		Important for its Cladium fen and alkaline		been carried out and it has been
		fen.		concluded that no threat to the
				habitat exists or that any threat
				that might exist can be mitigated

Table 1.1. - Analysis of Natura 2000 Sites - SACs

SPA	County	Description	Mitigation	Condition
Cliffs of Moher	Clare	One of the most important seabird		No development or activity shall
		colonies in the country. Extends a distance		be permitted unless an EHDA has
		of some 9.5 km along the north Clare coast		been carried out and it has been

SPA	County	Description	Mitigation	Condition
		from Faunmore in the north to just south		concluded that no threat to the
		of Cancregga Point in the south. Of special		habitat exists or that any threat
		conservation interest for the following		that might exist can be mitigated
		species: Chough, Fulmar, Kittiwake,		
		Guillemot, Razorbill and Puffin; and for		
		holding an assemblage of over 20,000		
		breeding seabirds		
Inner Galway Bay	Clare	One of the most important ornithological		No development or activity shall
		sites in the western region. Has		be permitted unless an EHDA has
		internationally important wintering		been carried out and it has been
		populations of Great Northern Diver and		concluded that no threat to the
		Brent Goose, and nationally important		habitat exists or that any threat
		populations of an additional sixteen		that might exist can be mitigated
		species. Has breeding colonies of Sandwich Tern, Common Tern and Cormorant that are of national importance		No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this has concluded either that no negative impact would arise or that any such impacts can be satisfactorily mitigated
Ballyallia Lake Wildfowl	Clare	Located on the River Fergus, a little north		No development or activity shall
Sanctuary		of Ennis. An important site for wintering		be permitted unless an EHDA has
		waterfowl, having seven species with		been carried out and it has been

SPA	County	Description	Mitigation	Condition
		populations of national importance. Also		concluded that no threat to the
		of importance is the occurrence of		habitat exists or that any threat
		Whooper Swan.		that might exist can be mitigated
				No effluent discharge that would be liable to have a negative impact on the habitat shall be permitted unless and until an EHDA has been carried and this
				has concluded either that no negative impact would arise or that any such impacts can be
				satisfactorily mitigated
Lough Derg	Clare	Supports nationally important breeding		No development or activity shall
		populations of Common Tern, Cormorant,		be permitted unless an EHDA has
		Great Crested Grebe, and probably Tufted		been carried out and it has been
		Duck and Black-headed Gull. In winter, it		concluded that no threat to the
		has nationally important populations of		habitat exists or that any threat
		Tufted Duck and Goldeneye. The presence		that might exist can be mitigated
		of Common Tern, Whooper Swan and Greenland White-fronted Goose is of		No effluent discharge that would
		particular note as these are listed on Annex		be liable to have a negative
		I of the E.U. Birds Directive.		impact on the habitat shall be
				permitted unless and until an
				EHDA has been carried and this
				has concluded either that no
				negative impact would arise or

SPA	County	Description	Mitigation	Condition
				that any such impacts can be
				satisfactorily mitigated
River Shannon & River	Clare and	The most important coastal wetland site in		No development or activity shall
Fergus Estuaries	Limerick	the country. The site comprises all of the		be permitted unless an EHDA has
		estuarine habitat west from Limerick City		been carried out and it has been
		and south from Ennis, extending west as		concluded that no threat to the
		far as Killadysert and Foynes on the north		habitat exists or that any threat
		and south shores respectively. Also		that might exist can be mitigated
		included are several areas in the outer		
		Shannon estuary, notably Clonderalaw Bay		
		and Poulnasherry Bay, as well as the		No effluent discharge that would
		intertidal areas on the south shore of the		be liable to have a negative
		Shannon between Tarbert and Beal Point.		impact on the habitat shall be
		Of international importance for the		permitted unless and until an
		numbers of wintering birds it supports.		EHDA has been carried and this
		Also supports internationally important		has concluded either that no
		numbers of Dunlin, Black-tailed Godwit and		negative impact would arise or
		Redshank. In addition, there are 16 species		that any such impacts can be
		that have populations of national		satisfactorily mitigated
		importance. For several of the bird species,		
		it is the top site in the country. Also of note		
		is that three of the species which occur		
		regularly are listed on Annex I of the E.U.		
		Birds Directive, i.e. Whooper Swan, Golden		
		Plover and Bar-tailed Godwit.		

SPA	County	Description	Mitigation	Condition
Illaunonearaun	Clare	The island is a regular haunt for wintering		No development or activity shall
		Barnacle Geese. Flock size varies as birds		be permitted unless an EHDA has
		move between here and Mutton Island to		been carried out and it has been
		the north. Up to 200 have been recorded		concluded that no threat to the
		(as in spring 1988) but numbers are usually		habitat exists or that any threat
		less, with 22 in spring 1994 and 107 in		that might exist can be mitigated
		1997.		
		The island is also important as a seabird		
		colony. A Cormorant colony was		
		established in the 1970s and in 1995 60		
		individuals were counted. Other species		
		include Fulmar (10 pairs in 1993), Great		
		Black-backed Gull (c. 25 pairs) and Lesser		
		Black-backed Gull (35 pairs in 1999).		
Loop Head	Clare	The cliffs support large numbers of		No development or activity shall
		breeding seabirds. A survey in 1987		be permitted unless an EHDA has
		recorded the following: Fulmar 66 pairs;		been carried out and it has been
		Kittiwake 690 pairs; Guillemot 4,010		concluded that no threat to the
		individuals and Razorbill 105 individuals. A		habitat exists or that any threat
		further survey in 2000, which was not		that might exist can be mitigated
		complete due to blind spots, gave the		
		following: Fulmar (45 pairs), Guillemot		
		(5000 individuals), Razorbill (20 individuals)		No effluent discharge that would
		and Kittiwake (260 pairs). The Kittiwake		be liable to have a negative
		and Guillemot populations are of National		impact on the habitat shall be
		Importance. The seabirds utilise the marine		permitted unless and until an

SPA	County	Description	Mitigation	Condition
		areas within the site for feeding, bathing		EHDA has been carried and this
		and socialising. The site supports breeding		has concluded either that no
		Chough, a species listed on Annex I of the		negative impact would arise or
		EU Birds Directive. A survey in 1992		that any such impacts can be
		recorded 3 breeding pairs, plus seven flock		satisfactorily mitigated
		birds. The Choughs nest on the cliffs and		
		feed on the overlying maritime grassland		
		and heath. Loop Head is a traditional site		
		for Peregrine, also an Annex I species.		
Slieve Aughty Mountains	Clare	The SPA is a stronghold for Hen Harriers		No development or activity shall
		and supports the second largest		be permitted unless an EHDA has
		concentration in the country. A survey in		been carried out and it has been
		2005 resulted in 24 confirmed and 3		concluded that no threat to the
		possible breeding pairs, which represents		habitat exists or that any threat
		over 17% of the national total. A somewhat		that might exist can be mitigated
		lower count of between 15 and 23 pairs in		
		the 1998-2000 period is considered to		
		reflect poorer coverage then. The mix of		
		forestry and open areas provides optimum		
		habitat conditions for this rare bird, which		
		is listed on Annex I of the Birds Directive.		
		The early stages of new and second		
		rotation conifer plantations are the most		
		frequently used nesting sites, though some		
		pairs may still nest in tall heather of		
		unplanted bogs and heath. Hen Harriers		
		will forage up to c. 5 km from the nest site,		

SPA	County	Description	Mitigation	Condition
		utilising open bog and moorland, young		
		conifer plantations and hill farmland that is		
		not too rank. Birds will often forage in		
		openings and gaps within forests. In		
		Ireland, small birds and small mammals		
		appear to be the most frequently taken		
		prey.		
		The site also supports a breeding		
		population of Merlin, a species that is also		
		listed on Annex I of the E.U. Birds Directive.		
		The population size is not well known but is		
		likely to exceed five pairs. Red Grouse is		
		found on many of the unplanted areas of		
		bog and heath – this is a species that has		
		declined in Ireland and is now Red-listed.		
Mid-Clare Coast	Clare	The stretch of coastline between Quilty		No development or activity shall
		and Lurga Point has extensive areas of mud		be permitted unless an EHDA has
		and sand flats and supports nationally		been carried out and it has been
		important bird populations. Further		concluded that no threat to the
		intertidal flats occur at Doughmore Bay		habitat exists or that any threat
		and Doonbeg Bay		that might exist can be mitigated
		The site is a Special Protection Area (SPA)		
		under the E.U. Birds Directive, of special		No offluent discharge that would
		conservation interest for the following		No effluent discharge that would
		species: Cormorant, Barnacle Goose,		be liable to have a negative
				impact on the habitat shall be

SPA	County	Description	Mitigation	Condition
		Ringed Plover, Sanderling, Purple		permitted unless and until an
		Sandpiper, Dunlin and Turnstone. The E.U.		EHDA has been carried and this
		Birds Directive pays particular attention to		has concluded either that no
		wetlands, and as these form part of this		negative impact would arise or
		SPA, the site and its associated waterbirds		that any such impacts can be
		are of special conservation interest for		satisfactorily mitigated
		Wetland & Waterbirds.		
Stack's to Mullaghareirk	Limerick	The site is a Special Protection Area (SPA)		No development or activity shall
Mountains, West		under the E.U. Birds Directive, of special		be permitted unless an EHDA has
Limerick Hills and Mount		conservation interest for Hen Harrier. This		been carried out and it has been
Eagle		SPA is a stronghold for Hen Harrier and		concluded that no threat to the
		supports the largest concentration of the		habitat exists or that any threat
		species in the country.		that might exist can be mitigated
Slievefelim to	Limerick	The site is a Special Protection Area (SPA)		No development or activity shall
Silvermines Mountains		under the E.U. Birds Directive, of special		be permitted unless an EHDA has
		conservation interest for Hen Harrier. This		been carried out and it has been
		SPA is one of the strongholds for Hen		concluded that no threat to the
		Harrier in the country.		habitat exists or that any threat
				that might exist can be mitigated
Lough Derg	Clare	Lough Derg SPA is of high ornithological		No development or activity shall
		importance as it supports nationally		be permitted unless an EHDA has
		important breeding pop-ulations of		been carried out and it has been
		Common Tern, Cormorant, Great Crested		concluded that no threat to the
		Grebe, and probably Tufted Duck and		habitat exists or that any threat
		Black-headed Gull. In winter, it has		that might exist can be mitigated
		black-fleaded Gull. III Wiffler, it flas		that might exist can be mitigated

SPA	County	Description	Mitigation	Condition
		nationally important populations of Tufted		No effluent discharge that would
		Duck and Goldeneye, as well as a range of		be liable to have a negative
		other species including Whooper Swan.		impact on the habitat shall be
		The site is still used on occasions by		permitted unless and until an
		Greenland		EHDA has been carried and this
		White-fronted Goose. The presence of Common Tern, Whooper Swan and Greenland White-fronted Goose is of particular note as these are listed on Annex I of the E.U. Birds Directive.		has concluded either that no negative impact would arise or that any such impacts can be satisfactorily mitigated

Table 1.2. - Analysis of Natura 2000 Sites - SPAs