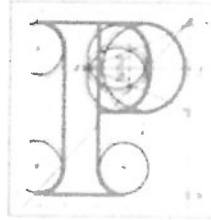


Our Case Number: ACP-323980-25



An
Coimisiún
Pleanála

Robert Frayne
Richardstown
Clane
Co. Kildare

Date: 04 August 2026

Re: Proposed Water Supply Project for the Eastern and Midlands Region
in the counties of Clare, Limerick, Tipperary, Offaly, Kildare, and Dublin.

Dear Sir / Madam,

An Coimisiún Pleanála has received your submission in relation to the above-mentioned proposed development and will take it into consideration in its determination of the matter.

The Commission will revert to you in due course in respect of this matter.

Please be advised that a copy of all submissions/observations received in relation to the application will be made available for inspection on the Commission's website at the following link:
<https://www.pleanala.ie/en-ie/case/323980>.

If you have any queries in the meantime, please contact the undersigned officer of the Commission. Please quote the above mentioned An Coimisiún Pleanála reference number in any correspondence or telephone contact with the Commission.

Yours faithfully,


Eimear Reilly
Executive Officer
Direct Line: 01-8737184

PA09

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Baile Átha Cliath 1
D01 V902

64 Marlborough Street
Dublin 1
D01 V902

Eimear Reilly

From: LAPS
Sent: Tuesday 21 July 2026 16:30
To: Eimear Reilly
Subject: FW: Objections to Compulsory Purchase Order and Planning Applications - Wayleave No IW/10001814/WL/396 - Your Ref: ACP-323980-25 and ACP-323982-25
Attachments: Letter to An Coimisiun Pleanala from Robert Frayne dated the 21.7.26.pdf; FF1177_Ecology Report__Kildare_FrayneQuinn.pdf
Follow Up Flag: Follow up
Flag Status: Completed
Categories: Oral Hearing Request, Both Cases

From: John Quinn <johnquinn19@me.com>
Sent: Tuesday 21 July 2026 16:09
To: LAPS <laps@pleanala.ie>
Subject: Objections to Compulsory Purchase Order and Planning Applications - Wayleave No IW/10001814/WL/396 - Your Ref: ACP-323980-25 and ACP-323982-25

Caution: This is an **External Email** and may have malicious content. Please take care when clicking links or opening attachments. When in doubt, contact the ICT Helpdesk.

FAO MS EIMEAR REILLY

Dear Sir / Madam

I enclose herewith my letter of submissions dated the 21/7/26 and Preliminary Ecological Appraisal prepared by Flynn Furey Consultants which is referred to therein.

I would be obliged if you would acknowledge receipt of this email.

Kind regards

Robert Frayne

Lyreen,
Raheen,
Rathcoffey,
Co. Kildare.
W91T9W3.

The Secretary,
An Coimisiun Pleanala,
64 Marlborough Street,
Dublin 1.

21st July 2026

RE: Objections to Compulsory Purchase Order and Planning Applications
Wayleave No IW/10001814/WL/396
Your Ref: ACP-323980-25 and ACP-323982-25

Dear Sir / Madam

I am writing in response to your recent letter and I also refer to the letter of the 5th of May 2026 from Uisce Eireann to An Coimisiun Pleanala. I note Uisce Eireann's general comment that the matters raised are not matters for consideration at an oral hearing. I would disagree with that view and would maintain that they are suitable matters for consideration at an oral hearing.

I refer to the replies below by Uisce Eireann to my objections,

Replies to Objections

1. Location of Wash-out Valve - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Eireann. I note their statement that *"Without Prejudice, Uisce Eireann acknowledges the landowner's equine safety concern and will continue to engage through the landowner liaison process to consider whether local optimisation of the washout arrangement or its immediate interface with existing land use is feasible at detailed construction planning stage, provided such refinement does not compromise pipeline operability or environmental protection measure."*

2. Failure to Mitigate Construction noise during Construction Phase - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Eireann. I note that they say that the period of disruption will be approximately 18-24 months. I would submit that this is an inordinate amount of time to endure such a disruption. I note proposals have just been received from Uisce Eireann to address the moving the horses during the works and same are being considered.

3. Impact of Construction Work on Equine Stock - I note proposals have just been received from Uisce Eireann to address the moving the horses during the works and same are being considered to see if they fully address my original objection on this matter.

4. Impact of Proposed Route on access to parts of the Landowner's property - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Éireann. As previously noted, the proposed route would interfere with the current crossing point on the stream. I note that Uisce Éireann's position is that prior to commencement the construction team would meet with myself and their Land Liaison Officer to agree temporary access arrangements and implement same in advance with reinstatement thereafter.

5. Alleged Environmental and Ecological Damage - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Éireann. I enclose herewith Preliminary Ecological Appraisal prepared by Flynn Furey Consultants that outlines the significant negative effects on the local ecology. In particular, it says that the removal of sections of the hedgerow will result in the long term loss of habitat and habitat connectivity. I note Uisce Éireann's position that *"Without Prejudice, Uisce Éireann will continue to review whether the access/egress and sightline requirement can be achieved with reduced hedgerow/tree loss and where any removal is unavoidable, Uisce Éireann will ensure that CEMP preservation measures and reinstatement measures are applied through the Contractor's targeted CEMP/method statements and the REAC commitments."*

6. Hedgerow Retention - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Éireann. I enclose herewith Preliminary Ecological Appraisal prepared by Flynn Furey Consultants that outlines the significant negative effects on the local ecology. In particular, it says that the removal of sections of the hedgerow will result in the long term loss of habitat and habitat connectivity. Firstly, it recommends the consideration of alternate routing options that would not result in the loss of any habitat, or loss of minimal habitat. Secondly, it recommends the minimisation of vegetation clearance along the R408. It also suggests a narrower entrance from the R408 keeping more trees intact and the use of a stationery mirror opposite to allay any concerns on safe entering / exiting. Finally, it recommends how any removed hedgerow should be reinstated.

7. Drainage - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Éireann.

8. Allegation that information supplied by Uisce Éireann is "incomplete" - I would maintain that my original objection on this matter has not been overcome by the submissions of Uisce Éireann.

I reserve the right to include other grounds of objection and to elaborate on the above listed grounds of objection when further information is made available to me by the Acquiring Authority and to tender these at the An Coimisiún Pleanála Hearing.

I request that an Oral Hearing be held in relation to the applications due to the scale of the development and the magnitude of the impacts on the environment and property.

Kind regards



Robert Frayne



**FLYNN
FURNEY**

ENVIRONMENTAL CONSULTANTS

Sandra Frayne & John Quinn

Preliminary Ecological Appraisal

Ecological assessment for objections to
permanent wayleave and planning applications

Document Details

Client:	Sandra Frayne and John Quinn
Prepared by:	Flynn Furney Environmental Consultants
Report title:	Preliminary ecological appraisal (PEA)
Project title:	Housing development X at Y (HDXY)
Date of submission:	20/07/2026
Document code:	FF1177_JQSF_PEA_v1_20072026

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Revision	Status	Date	Prepared by	Approved by
1	Draft 1	06/07/2026	CD	

1. Introduction 2

1.1. Background 2

1.2. Project Description..... 3

1.3. Legislation 3

1.3.1. European Legislation on Biodiversity Conservation 3

1.3.2. Irish Legislation on Biodiversity Conservation 3

2. Methodology..... 4

2.1. General..... 4

3. Results..... 5

3.1. Desk Study..... 5

3.2. Field Survey 6

4. Evaluation of Results..... 7

5. Significant Impact Assessment..... 8

6. Recommended Actions 9

7. Conclusion 9

8. References 9

Appendices..... 0

1. Introduction

1.1. Background

This preliminary ecological appraisal (PEA) report has been prepared by Christopher Doyle of Flynn Furney Environmental Consultants on behalf of Sandra Frayne and John Quinn. The report aims to provide further information to support issues 5-8 in the planning objection letter submitted alongside it. The proposed development is part of an Uisce Eireann (UE) water network expansion and will include an underground pipe and washout valve.

Issues raised in this objection letter are as follows.

- **Issue no. 5:** Retention and preservation of an area of hedgerow on the R408 which may be an important local ecosystem feature.
- **Issue no. 6:** Retention and preservation of a similar area of hedgerow/woodland at the northeast corner of Raheen Field.
- **Issue no. 7:** Potential for impacts on/removal of hedgerow along the Lyreen River.
- **Issue no. 8:** No wildlife surveys had been conducted on the Frayne lands, implying a lack of knowledge of the ecological baseline.

This report aims to provide an evidence-based, survey-informed ecological appraisal of the site in question, with regard to the above concerns.

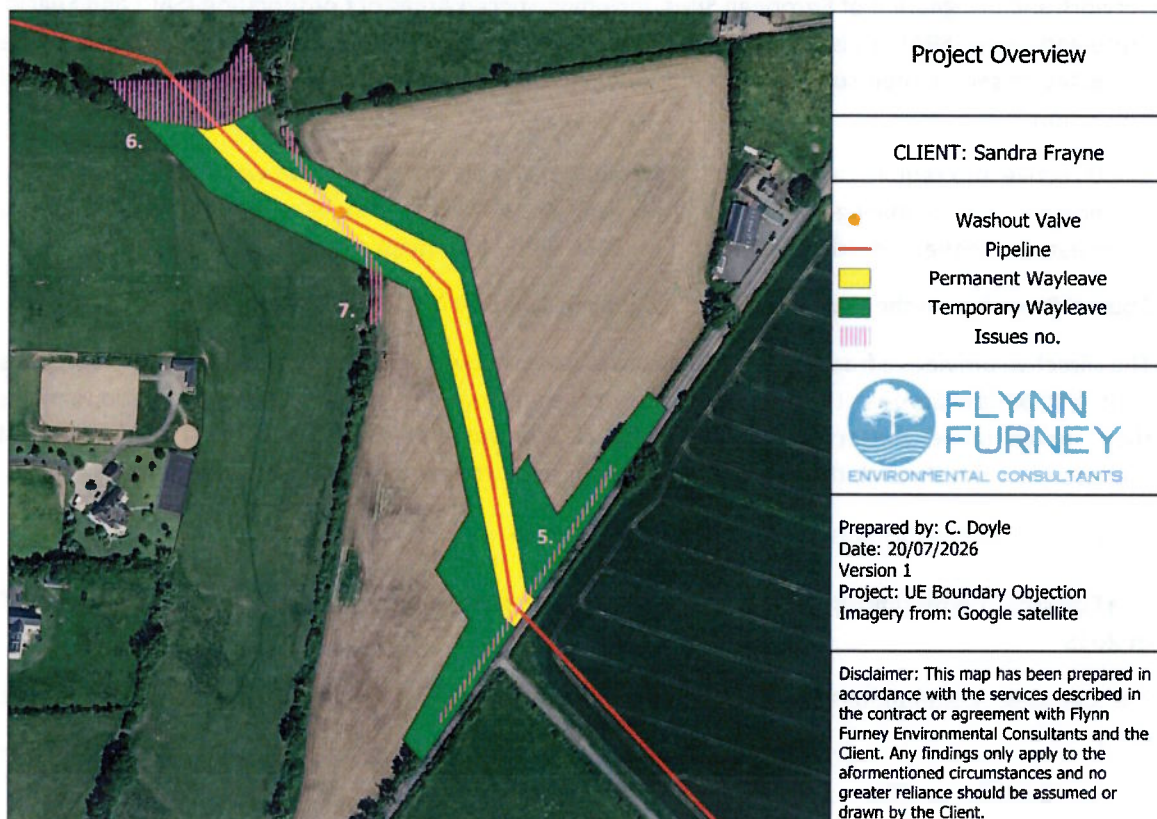


Figure 1: Overview of the area of interest, showing the proposed wayleaves, pipeline route and washout valve, along with the areas of interest of this report, issues 5, 6 and 7.

1.2. Project Description

The site is located near Maynooth, Co. Kildare, just outside Rathcoffey, at 53.343992, -6.656921. The property in question is a long field adjacent to the R408 regional road. As part of the Uisce Eireann network expansion, this field will be crossed by an underground water pipeline, with a washout valve located where the pipeline crosses the Lyreen River (EPA code IE_EA_09L020035).

Site access will involve the removal of a significant length of hedgerow and treeline (c. 100 m) along the east edge of the property. Servicing of the pipeline may be carried out at the washout valve.

1.3. Legislation

1.3.1. European Legislation on Biodiversity Conservation

Council Directive on the conservation of Natural Habitats of Wild Fauna and Flora 92/43/EEC- The Habitats Directive

The main aim of the Directive is to promote the maintenance of biodiversity through the conservation of natural habitats and wild species listed on the Annexes of the Directive. Member States are required to take measures to maintain or restore, at a favourable conservation status, biodiversity, whilst taking account of economic, social, cultural requirements and regional and local characteristics.

It gives effect to site and species protection measures through the establishment of the Natura 2000 network and designation of European Sites, including Special Areas of Conservation (SAC) and Special Protected Areas (SPA). It also establishes a list of species (other than birds) whose habitats must be protected to secure their survival. These priority species and habitats are subject to a higher level of protection.

The Directive also requires appropriate assessment of any plan or project not directly connected with or necessary to the management of a European Site, but likely to have significant effects upon a European site, either individually or in combination with other plans or projects.

Council Directive on the Conservation of Wild Birds 2009/147/EC- The Birds Directive

The Directive provides a framework for the conservation and management of, and human interactions with, wild birds in Europe. It makes provisions for the maintenance of the wild bird populations across their natural range; conserves the habitats for rare or vulnerable species listed in Annex I and of migratory species through the classification of SPAs and provides protection for all wild birds.

1.3.2. Irish Legislation on Biodiversity Conservation

The European Communities (Birds and Natural Habitats) (Amendment) Regulations 2015 S.I. No. 355 of 2015

The European Communities Regulations provides that the following shall be construed together as one:

- Wildlife Act 1976
- Wildlife (Amendment) Acts of 2000, 2010, 2012 and 2023
- European Communities (Birds and Natural Habitats) (Restrictions of the Use of Poison Bait) Regulations 2010
- European Communities (Birds and Natural Habitats) Regulations 2011

- European Communities (Birds and Natural Habitats) (Amendment) Regulations of 2013, 2015
- Wildlife Amendment Bill 2016 (proposed legislation)
- European communities (Birds and Natural Habitats) Regulations 2011 to 2015

The Regulations give effect to requirements relating to the designation of protected sites under the Birds Directive and Habitats Directive. The Regulations provide for the protection and management of European Sites and place obligations on all public authorities to have regard to the requirements of the Habitats Directive beyond the realms of planning related consents issued under the Planning and Development Act (the PDA) 2000, as amended. The Regulations also provide for the protection of species of European importance.

Wildlife Acts 1976 to 2023

The Acts provide for inter alia the protection of wildlife. The Acts prohibit the intentional killing, taking or injuring of certain wild birds or wild animals; or the intentional destruction, uprooting or picking of certain wild plants.

The basic designation for wildlife is the Natural Heritage Area (NHA). This is an area considered important for the habitats present, or which holds species of plants and animals whose habitat needs protection. To date, 75 raised bogs have been given legal protection, covering some 23,000 hectares. These raised bogs are located mainly in the midlands. A further 73 blanket bogs, covering 37,000 ha, mostly in western areas are also designated as NHAs.

In addition, there are 630 proposed NHAs (pNHAs), which were published on a non-statutory basis in 1995, but have not since been statutorily proposed or designated. These sites are of significance for wildlife and habitats. Some of the pNHAs are tiny, such as a roosting place for rare bats. Others are large - a woodland or a lake, for example. The pNHAs cover approximately 65,000ha and designation will proceed on a phased basis over the coming years.

Under the Wildlife Amendment Act (2000) , NHAs are legally protected from damage from the date they are formally proposed for designation.

Wildlife Amendment Bill 2016

The purpose of the Bill is to provide for the implementation of a reconfiguration of the Raised Bog Natural Heritage Area Network arising from (i) the proposals from the Review of Raised Bog Natural Heritage Area Network published in January 2014; (ii) an assessment of the effects on the environment of the proposals arising from the Review and, if required, any other screening for an assessment or as the case may be, assessment, including public consultation undertaken and (iii) observations or submissions received during the course of public consultation.

Taken as a whole, nature conservation legislation is of key importance in undertaking an ecological impact assessment for proposed development as it shapes planning policy.

2. Methodology

2.1. General

Prior to the main fieldwork for this assessment, a desktop survey of available information sources was conducted. These included:

- The National Biodiversity Data Centre (NBDC) Online Database

- The NPWS Protected Species Database and Online Mapping
- The Environmental Protection Agency Database and;
- The EPA Water Quality in Ireland Report

Designated sites were identified using the current boundary shapefiles (SAC 2023, SPA 2023, NHA 2019/06, pNHA 2015), downloaded from the NPWS website. Other online mapping reviewed included aerial photography and EPA shapefile datasets. Desk research also included a review of records available through the National Biodiversity Data Centre mapping system.

The site was visited by C. Doyle, PGDip, BSc, of Flynn Furney, who has 5+ years' experience in ecological survey and impact assessment. The full boundary of the site was walked, with a focus on the wayleave areas (described in detail below) and all habitats were described and assessed. The aim of the surveys was to determine the relative value of the local ecology and the extent of the impacts of the proposed Uisce Eireann works thereupon.

Baseline ecological conditions were assessed, and habitats were classified according to A Guide to Habitats in Ireland (Fossitt, 2000). Where applicable, the habitat types and species usage were recorded (Smith et al. 2011; Scannell and Synnott, 1987; Wyse Jackson et al. 2016). Habitats were classified, and dominant plant species were noted according to the guidelines given by the JNCC (2010) with reference to Smith et al. (2011) & Scannell and Synnott (1987).

All species surveys were carried out in accordance with the *Guidelines for The Assessment of Ecological Impacts of National Road Schemes* (NRA, 2009). Survey and reporting methodologies are based on best practice guidance published by Transport Infrastructure Ireland (formerly NRA, 2009), the Chartered Institute of Ecology and Environmental Management (CIEEM 2017, 2018) and the Heritage Council of Ireland (Smith et al. 2011).

Ecological values were assessed based on *Guidelines for Ecological Impact Assessment in the UK and Ireland: terrestrial, freshwater and Coastal 2nd Edition*. (CIEEM, 2018).

3. Results

3.1. Desk Study

A list of relevant protected sites designated for conservation interest plus descriptions and a summary of notable features and species in the area, with a map if available/relevant/possible (the amount of detail provided will depend on the terms and conditions of the data provider).

Records from the NBDC show 547 species recorded within a 1 km buffer zone around the site, including:

- 62 species listed for protection in the annexes of the Wildlife Acts (including red-listed bird species) and the European Communities Regulations.
- 4 amber-listed bird species
- 6 endangered invertebrates
- 3 near-threatened invertebrates
- 8 vulnerable molluscs
- 1 vulnerable moss

A full list of species records retrieved is provided in Appendix 1.

No Special Protection Areas (SPAs), Special Areas of Conservation (SACs), Natural Heritage Areas (NHAs) or proposed Natural Heritage Areas (pNHAs) were identified within the immediate zone of influence of the site. The nearest edge of the Rye Water Valley/Carton SAC (001398) is located c. 9.5 km downstream of the proposed washout valve.

This SAC is designated for the following qualifying interests (QIs):

- 1014 Narrow-mouthed Whorl Snail (*Vertigo angustior*)
- 1016 Desmoulin's Whorl Snail (*Vertigo moulinsiana*)
- 7220 Petrifying springs with tufa formation (*Cratoneurion*)*

The only listed instance of petrifying spring habitat is situated 15.4 km away from the proposed washout valve location and is out of the direct flow of the river. This habitat type is vulnerable to land drainage as it requires constant irrigation.

The Narrow-mouthed Whorl Snail and Desmoulin's Whorl snail are sensitive to habitat alteration from changes to the local hydrology, though neither have been recorded in this SAC since 2006, and so their habitat distribution within the SAC is unknown, though both species were last recorded in a similar area to the petrifying spring.

The Lyreen River was listed as having 'poor' water quality in the Environmental Protection Agency's Water Framework Directive (WFD) assessments 2019-2024. The nearest downstream Q-value (measure of ecosystem health) was recorded in 1991 and was also labelled as 'poor'. This watercourse may have had poor quality for a long period of time.

3.2. Field Survey

1. Hedgerow along eastern boundary: Approximately 2 m tall and 2-3 m wide, a double hedge runs along the east side of the field. Mostly composed of Hawthorn (*Crataegus monogyna*), though with elements of Elder (*Sambucus nigra*), Field Elm (*Ulmus minor*) and Wild Crab-apple (*Malus sylvestris*), it is dense and stock-proof. Field layer flora includes Primrose (*Primula vulgaris*), Dog Violet (*Viola riviniana*) and Cuckoo Pint (*Arum maculata*), which are indicator species of a long-standing woodland community. Growing from the hedgerow is a line of tall and mature Ash (*Fraxinus excelsior*) trees. There are signs of ash dieback in the canopy, but all trees are still standing and don't appear to have been extensively damaged by the disease yet.

There was no evidence of bird nesting in the trees, but the trunks were covered in dense Ivy (*Hedera helix*), which may obscure nesting. Ivy flowers and berries are also important sources of food for pollinators and birds. Several holes were observed in the trees which, together with the dense Ivy, are of low-moderate potential for bat roosting. The real value of these trees for bats is more likely as linear features across an open agricultural landscape, which are important for navigation via echolocation. A mammal trail ran along the length of the hedgerow, on the western side and, in places a second trail is visible inside the hedge.

2. Agricultural field: The field itself was entirely under pasture for livestock with cattle present of the day of survey. Sheep also graze this field. Herb species composition is common for this type of agricultural grassland, Dandelion (*Taraxicum officinale*), Clovers (*Trifolium repens* and *T. pratense*), Vetch (*Vicia sativa*), Buttercups (*Ranunculus repens* and *R. acris*), with occasional Cuckooflower (*Cardamine pratensis*) at the south end, which is 'wilder' and more overgrown with scrub.

3. Treeline along Lyreen River: The hedgerow along the Lyreen river at the west border of the field is more of a treeline with an understory of Bramble (*Rubus fruticosus* agg.) scrub, which is dense in some

places and sparse in others. Tree species are a mix of Ash and Hawthorn, with some Balckthorn (*Prunus spinosa*) and Dog Rose (*Rosa canina*) throughout the scrub. The stream here is very degraded; it has been extensively poached by livestock and the abundant growth of Watercress (*Nasturtium officinale*) and green filamentous algae are indicative of eutrophication, likely from animal waste in the immediate locality, and general agricultural runoff in the wider area, which was visible at the edge of the stream. The dense scrub here offers good bird nesting potential and overall is a notable feature in the local habitat corridor connectivity.

4. Northeast corner of Raheen Field (Raheen Corner): The vegetated corner at the north of Raheen field is a pocket of open deciduous woodland, which was partially planted by the landowner. A section of this area is composed of scattered broadleaf trees with a grass dominated field layer, though on the other side of the boundary, which is the southern end of the field to the north, is a much more semi-natural Beech (*Fagus sylvatica*) woodland with occasional Hawthorn, Elm, and Horse Chestnut (*Aesculus hippocastanum*). The ground flora here was dominated by Cow Parsley (*Anthriscus sylvestris*). Other ground flora was hard to make out as this area was not accessible during the survey, and the Cow Parsley blocked the view of anything beneath it. As the vegetation runs west along the top of Raheen field, it becomes less of a pocket woodland and more of an open relict hedgerow, with very mature Hawthorn and Ash trees.



Figure 2: Habitat features surveyed.

4. Evaluation of Results

The overall impression of the habitats within and around the field boundaries are very old, at least decades, likely over 100 years, as some of the Hawthorns, a long-lived species, in the northern boundary are very mature. Hedgerows like these are some of the last elements of developed semi-

natural habitat in a very nature-poor area. The majority of the land cover here is agricultural grassland, tillage crops and artificial surfaces. The hedgerows to the west and east of the field (features 1 and 3 in figure 2 above) are important ecological corridors that connect the more semi-natural areas of the landscape. Figure 3 below shows that the two hedgerows on either side of the field are two of the only vegetated strips connecting north to south. Hedgerows and treelines are very important for both animals, crossing the countryside in shelter away from predators, and for plant and fungal species to spread. Good habitat connectivity prevents the stranding of species in smaller, unconnected and fragmented habitats.

The mammal trail running along and within the hedge on the east boundary is indicative that the hedge is used as a way across the field north to south, as opposed to crossing directly out in the open.

Breaking the connectivity here may break a commuting route that may be decades of years old. Foxes, Badgers and small mammals may be well used to navigating this area via these field margins. Lots of nesting opportunities throughout the area and there also was a Buzzard (*Buteo buteo*) noted during the survey in a tree in 'Raheen corner', possibly indicating foraging habitat suitability in the area.

The Lyreen River in this area is not of good quality and continues to suffer from impacts from livestock, having been straightened into a field drain, and lack of riparian area, though the stagnant water and abundance of algae may be suitable for Frog (*Rana temporaria*) breeding.

No significant evidence of protected species was found during the surveys. While the habitats encountered were not uncommon for this setting or the area, their connectivity and maturity are what make them stand out. In particular, the hedgerows along the R408 and at the north edge of Raheen field are of significant age.

Interactions with this project and water quality in the Lyreen River are not expected to be significant relative to the other pressures the stream is already facing.

5. Significant Impact Assessment

The proposed works here will see the removal of sections of the hedgerow along the R408, along the Lyreen River and in Raheen Corner (figure 1). These habitats are considered to have an overall 'local' value, which are 'sites containing small areas of semi-natural habitat that are of some local importance for wildlife; with some areas, namely Raheen Corner and the hedgerow along the R408 being of regional value, that is 'sites containing semi-natural habitat types with high biodiversity in a regional context and a high degree of naturalness, or populations of species that are uncommon within the region'. Mature and even old hedgerows and areas of vegetation are regionally important at a county level in Kildare, which has a long history of agriculture, and as such a long history of hedgerows, which are used to delineate boundaries.

The removal of sections of these areas, even if replanted like for like, will result in the temporary but long-term loss of habitat and habitat connectivity. The *loss of a key feature of local importance* is considered to be 'moderate adverse' and a significant negative effect. *Loss of or permanent damage to any part of a site of regional importance* is also considered to be 'moderate adverse'. Moderate adverse impacts fall under the category of 'significant negative effects' (CIEEM, 2018).

In light of this, significant negative effects on the local ecology should be considered for mitigation, ideally through avoidance at a design stage, followed by minimisation of impacts and mitigation of

and compensation for what can't be avoided or minimised. It will take a long time for the hedgerows to regenerate to their current status, even if planted like-for-like following removal.

6. Recommended Actions

The first recommendation is the consideration of alternate routing options that would not result in the loss of any habitat, or loss of minimal habitat. The agricultural grassland is of lower ecological value, and regenerates quickly, is the preferred option for any unavoidable habitat loss. Using trenchless methods for pipe installation, such as horizontal directional drilling would eliminate the need for clearance at Raheen corner.

Secondly, the minimisation of vegetation clearance along the R408 would reduce the degree of fragmentation. 5 m is still a meaningful gap for wildlife but can be traversed more easily than a 50 m gap, for example. A narrower entrance from the R408, keeping more trees intact and using more of the grassland area would be the preferred option. If sightlines are an issue for safe entering/exiting, consider a stationary mirror opposite to increase visibility of the road without needing to remove as much of the hedgerow and treeline here.

Lastly, the reinstatement of any removed hedgerow or treeline, like-for-like with native species, outside of areas kept for access to the permanent wayleave, would help these corridor habitats to regenerate faster, though it is again noted that a newly planted hedgerow does not have the same ecological value as a mature hedge. Saplings should be planted on a 3:1 basis, as some will not make it to maturity due to environmental conditions.

7. Conclusion

This report has assessed the local ecology around the site the proposed UE works in Kildare. Though many protected species were recorded in the greater area, there was no evidence of such during the field surveys. The site visit determined that there are some areas of good quality habitat around the site and, critically, within the proposed pipe route. It has been proposed by UE to remove sections of these habitats to facilitate access to the site and provide good sightlines. The removal of vegetation at the proposed locations is considered to result in significant negative effects for local habitat connectivity and ecosystem functioning, which could be avoided or reduced with careful planning.

8. References

- CIEEM (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater and Coastal 2nd Edition. The Chartered Institute of Ecology and Environmental Management, Winchester.
- CIEEM (2017) Guidelines for Preliminary Ecological Appraisal, 2nd edition. Chartered Institute of Ecology and Environmental Management, Winchester
- Collins, J. (ed.) (2023) Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edn). The Bat Conservation Trust, London. ISBN-13 978-1-872745-96-1
- Fossitt, J.A. (2000) A Guide to Habitats in Ireland. The Heritage Council, Kilkenny.

Ecological Assessment - Rathcoffey

Joint Nature Conservation Committee (JNCC) (2010). Handbook for Phase 1 Habitat Survey – a technique for environmental audit. Joint Nature Conservation Committee, Peterborough (UK).

National Roads Authority (2009). Guidelines For the Assessment of Ecological Impacts of National Road Schemes. NRA, Dublin.

NPWS (2021) Conservation Objectives: Rye Water Valley/Carton SAC 001398, Version 1. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage.

Smith, G. F., O'Donoghue, P., O'Hora, K., & Delaney, E. (2011) Best Practice Guidance for Habitat Survey and Mapping. The Heritage Council, Kilkenny.

Appendix 1

Designation	Species group	Species name	Record count	Date of last record	Title of dataset
Invasive Species: EU Invasive Alien Species Regulation No. 1143/2014 Invasive Species: Regulation S.I. 477/2011 (Ireland) Invasive Species: High Risk Invasive Species (2013 Report) Invasive Species: Regulation S.I. 374/2024 (Ireland)	Terrestrial mammal	Grey Squirrel (Sciurus carolinensis)	1	31/12/1985	Mammal Recording Scheme 1970-1985 (An Foras Forbartha)
Invasive Species: High Risk Invasive Species (2013 Report)	Flowering plant	Cherry Laurel (Prunus laurocerasus)	1	30/04/2011	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards
Invasive Species: High Risk Invasive Species (2013 Report)	Terrestrial mammal	Brown Rat (Rattus norvegicus)	2	04/02/1969	Northern Ireland Mammal Database
Invasive Species: High Risk Invasive Species (2013 Report)	Terrestrial mammal	House Mouse (Mus musculus)	2	04/02/1969	Northern Ireland Mammal Database
Invasive Species: Medium Risk Invasive Species (2013 Report)	Flowering plant	Sycamore (Acer pseudoplatanus)	2	30/04/2011	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards
Invasive Species: Medium Risk Invasive Species (2013 Report)	Mollusc	Budapest Keeled Slug (Tandonia budapestensis)	1	11/04/1968	All Ireland Non-Marine Molluscan Database
Invasive Species: Medium Risk Invasive Species (2013 Report)	Mollusc	Common Garden Snail (Cornu aspersum)	6	13/04/1968	All Ireland Non-Marine Molluscan Database

Invasive Species: Medium Risk Invasive Species (2013 Report)	Mollusc	Jenkins' Spire Snail (<i>Potamopyrgus antipodarum</i>)	2	13/04/1968	All Ireland Non-Marine Molluscan Database
Invasive Species: Medium Risk Invasive Species (2013 Report)	Mollusc	Sowerby's Keeled Slug (<i>Tandonia sowerbyi</i>)	2	11/04/1968	All Ireland Non-Marine Molluscan Database
Invasive Species: Medium Risk Invasive Species (2013 Report)	Mollusc	Wrinkled Snail (<i>Xeroplexa intersecta</i>)	1	31/12/1909	All Ireland Non-Marine Molluscan Database
Invasive Species: Medium Risk Invasive Species (2013 Report)	Terrestrial mammal	Rabbit (<i>Oryctolagus cuniculus</i>)	2	04/02/1969	Northern Ireland Mammal Database
Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex II Threatened Species: Vulnerable	Insect - butterfly	Marsh Fritillary (<i>Euphydryas aurinia</i>)	7	31/12/2010	All Ireland Marsh Fritillary Database
Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex II Threatened Species: Vulnerable	Mollusc	Narrow-mouthed Whorl Snail (<i>Vertigo (Vertilla) angustior</i>)	2	11/04/1968	All Ireland Non-Marine Molluscan Database
Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex IV Protected Species: Wildlife Acts	Terrestrial mammal	Common Pipistrelle (<i>Pipistrellus pipistrellus sensu stricto</i>)	11	26/05/2019	National Bat Database of Ireland

Ecological Assessment - Rathcoffey

Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex IV Protected Species: Wildlife Acts	Terrestrial mammal	Leisler's Bat (Nyctalus leisleri)	1	26/05/2019	National Bat Database of Ireland
Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex IV Protected Species: Wildlife Acts	Terrestrial mammal	Soprano Pipistrelle (Pipistrellus pygmaeus)	3	26/05/2019	National Bat Database of Ireland
Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex V Protected Species: Wildlife Acts	Amphibian	Common Frog (Rana temporaria)	2	31/12/1979	Irish National Frog Database
Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex V Protected Species: Wildlife Acts	Terrestrial mammal	Pine Marten (Martes martes)	1	11/08/2020	Mammals of Ireland 2016-2025
Protected Species: Wildlife Acts	Bird	Great Spotted Woodpecker (Dendrocopos major)	2	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts	Bird	Little Grebe (Tachybaptus ruficollis)	5	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts	Bird	Mistle Thrush (Turdus viscivorus)	10	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts	Bird	Robin (Erithacus rubecula)	11	31/12/2011	Bird Atlas 2007 - 2011

Ecological Assessment - Rathcoffey

Protected Species: Wildlife Acts	Bird	Sparrowhawk (Accipiter nisus)	10	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts	Bird	Stonechat (Saxicola rubicola)	7	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts	Terrestrial mammal	Badger (Meles meles)	5	31/12/2006	Badger Setts of Ireland Database
Protected Species: Wildlife Acts	Terrestrial mammal	Hedgehog (Erinaceus europaeus)	4	08/08/2023	Hedgehogs of Ireland
Protected Species: Wildlife Acts	Terrestrial mammal	Red Squirrel (Sciurus vulgaris)	1	31/12/1985	Mammal Recording Scheme 1970-1985 (An Foras Forbartha)
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species	Bird	Little Egret (Egretta garzetta)	5	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species	Bird	Peregrine (Falco peregrinus)	3	01/03/2023	Birds of Ireland

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: EU Birds Directive >> Annex II, Section II Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Golden Plover (Pluvialis apricaria)	2	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Corncrake (Crex crex)	3	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Hen Harrier (Circus cyaneus)	1	31/07/1972	The First Atlas of Breeding Birds in Britain and Ireland: 1968-1972.
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Kingfisher (Alcedo atthis)	7	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Merlin (Falco columbarius)	1	31/07/1972	The First Atlas of Breeding Birds in Britain and Ireland: 1968-1972.
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species	Bird	Rock Dove (Columba livia)	5	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species	Bird	Pheasant (Phasianus colchicus)	12	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Grey Partridge (Perdix perdix)	3	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Mallard (Anas platyrhynchos)	11	31/12/2011	Bird Atlas 2007 - 2011

Ecological Assessment - Rathcoffey

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Red Grouse (Lagopus lagopus)	1	31/07/1972	The First Atlas of Breeding Birds in Britain and Ireland: 1968-1972.
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Coot (Fulica atra)	8	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Teal (Anas crecca)	3	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Tufted Duck (Aythya fuligula)	1	31/12/2011	Bird Atlas 2007 - 2011

Ecological Assessment - Rathcoffey

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species	Bird	Jack Snipe (Lymnocyptes minimus)	2	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Snipe (Gallinago gallinago)	7	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Woodcock (Scolopax rusticola)	4	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Curlew (Numenius arquata)	3	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Lapwing (Vanellus vanellus)	9	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Black-headed Gull (Chroicocephalus ridibundus)	6	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Brambling (Fringilla montifringilla)	2	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Common Gull (Larus canus)	2	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Cormorant (Phalacrocorax carbo)	2	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Goldcrest (Regulus regulus)	11	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Great Crested Grebe (Podiceps cristatus)	1	31/12/2011	Bird Atlas 2007 - 2011

Ecological Assessment - Rathcoffey

Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Greenfinch (Chloris chloris)	11	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	House Martin (Delichon urbicum)	6	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Linnet (Linaria cannabina)	9	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Mute Swan (Cygnus olor)	10	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Sand Martin (Riparia riparia)	4	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Skylark (Alauda arvensis)	9	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Spotted Flycatcher (Muscicapa striata)	5	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Swallow (Hirundo rustica)	6	31/12/2011	Bird Atlas 2007 - 2011

Ecological Assessment - Rathcoffey

Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Tree Sparrow (Passer montanus)	4	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Willow Warbler (Phylloscopus trochilus)	6	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Barn Owl (Tyto alba)	8	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Grey Wagtail (Motacilla cinerea)	11	31/12/2011	Bird Atlas 2007 - 2011

Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Kestrel (Falco tinnunculus)	10	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Meadow Pipit (Anthus pratensis)	7	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Quail (Coturnix coturnix)	1	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Redwing (Turdus iliacus)	4	31/12/2011	Bird Atlas 2007 - 2011

Ecological Assessment - Rathcoffey

Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Stock Dove (Columba oenas)	7	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Swift (Apus apus)	6	31/12/2011	Bird Atlas 2007 - 2011
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Whinchat (Saxicola rubetra)	1	31/07/1972	The First Atlas of Breeding Birds in Britain and Ireland: 1968-1972.
Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List	Bird	Yellowhammer (Emberiza citrinella)	11	31/12/2011	Bird Atlas 2007 - 2011

Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Herring Gull (Larus argentatus)	3	31/12/2011	Bird Atlas 2007 - 2011
Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	House Sparrow (Passer domesticus)	12	31/12/2011	Bird Atlas 2007 - 2011
Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Lesser Black-backed Gull (Larus fuscus)	2	31/12/2011	Bird Atlas 2007 - 2011
Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List	Bird	Starling (Sturnus vulgaris)	11	31/12/2011	Bird Atlas 2007 - 2011
Threatened Species: Endangered	Insect - butterfly	Wall (Lasiommata megera)	1	31/12/1972	Distribution Atlas of Butterflies in Ireland 1979 (An Foras Forbartha)
Threatened Species: Endangered	Mollusc	Euglesa pseudosphaerium	1	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Endangered	Mollusc	Glutinous Snail (Myxas glutinosa)	2	31/12/1952	All Ireland Non-Marine Molluscan Database
Threatened Species: Endangered	Mollusc	Lesser Bulin (Merdigera obscura)	1	31/12/1909	All Ireland Non-Marine Molluscan Database

Ecological Assessment - Rathcoffey

Threatened Species: Endangered	Mollusc	Moss Chrysalis Snail (<i>Pupilla</i> (<i>Pupilla</i>) <i>muscorum</i>)	4	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Endangered	Mollusc	Small Amber Snail (<i>Succinella oblonga</i>)	1	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Near threatened	Insect - butterfly	Small Heath (<i>Coenonympha pamphilus</i>)	1	07/07/1973	Distribution Atlas of Butterflies in Ireland 1979 (An Foras Forbartha)
Threatened Species: Near threatened	Mollusc	Common Whorl Snail (<i>Vertigo</i> (<i>Vertigo</i>) <i>pygmaea</i>)	6	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Near threatened	Mollusc	Globular Pea Mussel (<i>Euglesa hibernica</i>)	1	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	Blind Snail (<i>Cecilioides</i> (<i>Cecilioides</i>) <i>acicula</i>)	3	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	Ear Pond Snail (<i>Radix auricularia</i>)	1	31/12/1940	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	English Chrysalis Snail (<i>Leiostyla</i> (<i>Leiostyla</i>) <i>anglica</i>)	3	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	Heath Snail (<i>Helicella itala</i>)	5	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	Marsh Whorl Snail (<i>Vertigo</i> (<i>Vertigo</i>) <i>antivertigo</i>)	2	11/04/1968	All Ireland Non-Marine Molluscan Database

Ecological Assessment - Rathcoffey

Threatened Species: Vulnerable	Mollusc	Moss Bladder Snail (<i>Aplexa hypnorum</i>)	1	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	Point Snail (<i>Acicula fusca</i>)	2	31/12/1952	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Mollusc	Tree Snail (<i>Balea (Balea) perversa</i>)	2	11/04/1968	All Ireland Non-Marine Molluscan Database
Threatened Species: Vulnerable	Moss	Sausage Beard- moss (<i>Didymodon tomaculosus</i>)	1	31/12/2002	Bryophytes of Ireland