

# County Longford

## Wetlands Field Survey III 2021

Report prepared for Longford County Council  
by P. Crushell, M.C. Gallagher & P. Foss

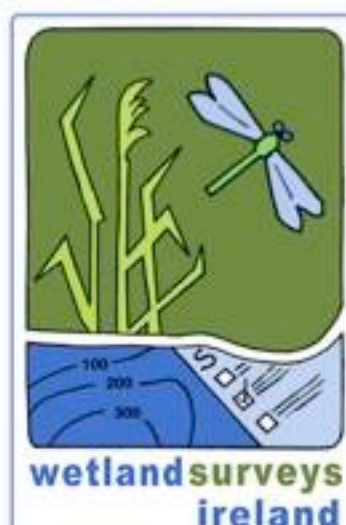
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An Chomhairle Oldhreachta  
The Heritage Council



An Roinn Tithíochta,  
Rialtais Áitiúil agus Oidhreachta  
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**An Action of the County Longford Draft Heritage Plan 2015-2020**

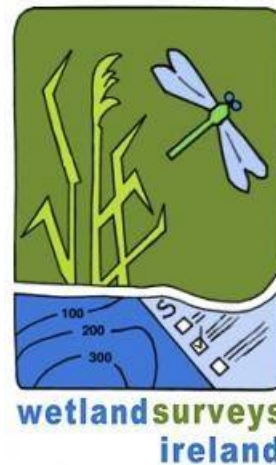
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## County Longford Wetlands Field Survey III 2021

This project involved a field survey of twelve freshwater wetlands in south County Longford. The aim of the survey was to identify the specific wetland habitats and ecological interest at each site. These sites had previously been identified as being of potential interest during the County Longford & Roscommon Wetland Study 2017 project. The sites were selected for survey due to the potential occurrence of notable wetland habitats. This report presents the results of the 2021 field survey and includes detailed site descriptions and habitat maps for each of the wetlands surveyed.

### Acknowledgements

The County Longford Wetlands Field Survey III 2021 (LFWS 2021) was made possible through the financial support of Longford County Council and The Heritage Council. The project is an action of the County Longford Draft Heritage Plan 2015-2020.

The authors wish to thank Máiréad Ní Chonghaile, Heritage Officer with Longford County Council for help and advice during the project. Thanks to Joe O'Sullivan for his assistance during the wetland field surveys.

We also acknowledge the assistance of all those landowners who facilitated access to their land during this survey and provided valuable local information.



## Executive Summary

1. The aim of the Longford Wetlands Field Survey III 2021 (LFWS 2021) was to undertake a field survey of a selection of wetland sites previously identified during the 2017 Counties Longford & Roscommon Wetland Study project (Foss *et al.* 2017) for which little or no ecological information was available.
2. The twelve sites selected for survey included those that lie outside of designated areas but were deemed likely to contain habitats of biodiversity interest, located in the southern part of the county.
3. Field surveys were undertaken on all twelve sites. These were surveyed in detail and site descriptions, conservation evaluation and habitat maps were prepared and are presented within individual site reports.
4. Habitats were classified and mapped according to the Guide to Habitats published by The Heritage Council (Fossitt 2000). Habitats that occur surrounding each wetland site were also recorded.
5. Detailed survey information on sites, including the habitats and species present, as well as threats and impacts to sites, was stored within a Longford Wetland Survey (LFWS) database.
6. The information collected from the survey was used to update the 2017 Longford Wetlands Map (LWFM) GIS dataset and site database. Site records were updated for each of the sites surveyed in 2021.
7. The main findings to emerge from the 2021 wetlands survey is the identification of a number of important wetland sites (ranging from national to high local importance), including marsh, transition mire, bog woodland, and a number of remnant raised bog sites.
8. The results of the 2021 field survey suggests that many important wetland sites may remain unidentified throughout county Longford and further surveys will be required to improve our knowledge of the county's wetland heritage.
9. Despite the recognised importance and value of wetlands, survey results confirm that they continue to be threatened and lost due to land-use pressures. A series of recommendations are made with regards ensuring the future conservation of the rich wetland heritage of County Longford.



# 1 Introduction and Background

In 2017 Longford County Council funded the production of a county Longford wetland GIS dataset and associated site database holding information on all known and potential freshwater wetlands in county Longford (Foss *et al.* 2017).

The 2017 Longford Wetlands Map (LFWM) project identified more than 281 wetland areas which were mapped in a digital dataset (LFWM GIS dataset). In 2019, eighteen of these sites were surveyed as part of the Longford Wetlands Field Survey 2019 (Foss *et al.* 2019), and in 2020, a further eleven wetland sites were surveyed as part of the Longford Wetlands Field Survey II 2020 (Crushell *et al.* 2020), with the view of improving the knowledge of the wetlands present on these sites.

Following the Longford Wetlands Field Survey II 2020, a total of 174 sites that were identified during the Longford Wetlands Map (LFWM) project in 2017 remain without detailed background survey information.

The main aim of the current Longford Wetlands Field Survey III 2021 (LFWS 2021) project was to survey a selection of sites identified in the LFWM project, located in the southern section of the county, for which there was little or no site survey information, and assess their ecological status to further contribute to the knowledge of the wetland resource of County Longford.

The outputs of the Longford Wetlands Field Survey III 2021 should assist Longford County Council in its obligations to protect the most important wetlands within the county and inform future conservation policies in relation to wetlands in county Longford.

## 1.1 Project summary

The LFWS 2021 project was undertaken between July and October 2021, with field surveys being completed during August 2021. The main elements project included:

- **Survey site selection:** Twelve previously un-surveyed sites were selected from the Longford Wetlands Map (LFWM) GIS dataset for survey in 2021. This selection process was undertaken with input from the Longford Heritage Officer and was focused in the southern part of county Longford, which was not covered in the 2019 and 2020 field surveys. Sites considered representative of the more common wetland habitats within the county were included (see Table 1).
- **Field map preparation:** Following the site selection process, a digital survey map was prepared showing the location of the survey sites, with the facility to collect survey notes during the surveys.
- **Database preparation:** A Wetland Survey Database (LFWS), to hold the survey data was created. This database was linked to the original County Longford Wetlands Map (LFWM) site database where core information on wetland sites is held. Following field survey, the survey data held within the LFWS survey database, was used to produce a site report for each surveyed site.
- **Field surveys:** Field surveys of the twelve selected sites were undertaken during August 2021. Following the field survey, the ecological value of each site was assessed using an objective site evaluation scheme. Sites were subsequently ranked in terms of their local, national, or international conservation value (see Appendix 1).
- **Data collation:** Information gathered during the field surveys was used to populate the Wetland Survey Database (LFWS), prepare habitat maps, and update the Longford Wetlands Map (LFWM) GIS dataset.
- **Report preparation:** Individual site reports (which include site descriptions, habitat maps, and conservation recommendations) were prepared for each surveyed site. These site reports are included in Appendix 2 of this report. Digital copies of the updated Longford Wetlands Field Survey III 2021 (LFWS 2021) GIS dataset and site database accompany this report.



## 2 Materials & Methods

### 2.1 Longford Wetlands Field Survey 2021 - Site Selection

At project commencement twelve sites located in the southern part of the county were selected from the Longford Wetland Map (LFWM) GIS dataset for survey. The selection of twelve sites was determined based on the budget and resources made available for the project. The final list of sites proposed for survey was considered representative of the more common wetland habitats within the county (see Table 1).

Sites selected for survey are listed in Table 1 below and a map showing their distribution throughout the county is presented in Figure 1.

### 2.2 Longford Wetlands Field Survey 2021 - Field Survey

The field survey was undertaken during mid-August 2021. The following was recorded at each site:

- General ecological description of the site
- Photographic record of the site
- The habitats both within and immediately adjoining the wetland
- Habitat types listed under Annex I of the EU Habitats Directive
- Threats/damaging activities to the site
- Flora and fauna species observed

All site information was recorded using a standard field survey card on a GPS enabled field computer (see Foss *et al.* 2017 for details). The survey card was designed specifically for use on this survey.

Plant identification followed Webb *et al.* (1996), and species nomenclature follows Scannell & Synnott (1987). Searches for rare or protected species of plants (Curtis & McGough 1988) were not the focus of this study but where these were observed note was taken for inclusion in the database.

Mammals observed were recorded using nomenclature in Sterry (2004) and birds were identified using Ferguson-Lee *et al.* (1983). Any reptiles, amphibians or (readily identifiable) invertebrates were also noted.

Information on threats and damage on the site, and the severity of this, was also noted and recorded in the GIS using target notes.

#### 2.2.1 Consultation with Landowners

Where possible, landowners were consulted by calling to the nearest dwelling, and permission was sought for access to the site. Discussions with landowners typically included an explanation of the project, often followed by an informal conversation about the particular wetland site and its past and recent management.

All landowners that were approached during the survey permitted access to their lands.

#### 2.2.2 Habitat Classification

The habitats within each wetland visited and those immediately adjacent to the site were classified using Fossitt (2000) 'A Guide to Habitats in Ireland'. The habitat definitions and terminology used in this report follows this guide.



Guidance in determining whether or not a habitat type present within a wetland may correspond to an EU Annex I type was sought from a variety of sources including European Commission (2013), Fossitt (2000), Foss (2007), O'Neill *et al.* (2013), Perrin *et al.* (2013), and Corbett (2004).

### **2.2.3 Site Conservation Assessment & Evaluation**

Each wetland surveyed in the field was assigned an evaluation rating. This evaluation was based on the criteria outlined in Appendix 1 (NRA 2009).

### **2.2.4 Survey Constraints**

The presence of wide deep drainage ditches and high water levels hindered field work by preventing safe access to parts of some of the sites. Such areas were assessed using binoculars. The walkover survey at Cartron East Pond was supplemented by a survey undertaken using an un-manned aerial vehicle (UAV). This method of survey allowed for additional data to be gathered from parts of the site that were inaccessible on foot.

The main purpose of the project is to create an inventory of wetlands within the county. In order to assess sites within the time and budgetary constraints of the project, surveys were normally confined to only those parts of the sites that appeared, from the aerial photography, to be of most interest. The level of information gathered at each site was sufficient to evaluate its ecological importance and wetland interest.

## **2.3 Longford Wetlands Field Survey Database – Structure and Content**

A Longford Wetland Survey (LFWS) database holds survey data on sites from the present survey (together with data from LFWS 2019 & 2020). This database was connected to the existing County Longford Wetland Map site database (which holds general and descriptive site data recorded in various third party reports and datasets) via the unique site code assigned to each site. This database was created using Filemaker Pro software package which allows data export to Excel spreadsheets.

Fields used to store survey data in the LFWS database are detailed in Foss *et al.* (2017).

Initially the sites selected for survey had a site record created in the LFWS database. This updated version of the LFWS database (with the sites surveyed in 2021 added) was given the name Longford Wetland Map Version 4, and is included with this report as part of the final project deliverables.

## **2.4 Longford Wetlands Field Survey (LFWS) – GIS Dataset**

The Longford Wetland Map (LFWM) GIS dataset created by Foss *et al.* (2017) (using ArcView 10.7 GIS software package on a Windows Operating System) was used throughout the LFWS 2021 for all site selection and mapping purposes.

See Foss *et al.* (2017) for further details on the structure and format of this LFWM GIS dataset.

All habitat maps produced during the LFWS 2021 project were added to this LFWM GIS dataset. In certain cases boundaries were also adjusted on sites based on field observations. The updated and revised version of the LFWM GIS dataset was delivered at the end of the project to Longford County Council, dated November 2021. A set of GIS files relevant only to this individual survey (LFWS 2021) are also included with this report.

### 3 Results

#### 3.1 Longford Wetlands Field Survey 2021

The twelve sites visited during the field survey are listed in Table 1 and their locations are shown in Figure 1.

Summary findings of the survey results in addition to the ecological status of each site are presented in Section 3.2. A detailed report for each survey site (sorted according to site name) together with habitat maps are presented in Appendix 2 of this report.

**Table 1: List of sites surveyed during the Longford Wetlands Field Survey III 2021.**

LFWS Site Code	Site Name	Centre Northing (IG)	Centre Easting (IG)
LF108	BALLYBRIN	231160	280183
LF128	KILLEEN SOUTH	229381	280021
LF129	KILLEEN BALLYMORE	228748	281159
LF149	OGHIL WEST	216309	282578
LF151	AGHABOY KILLETER CUTOVER	218752	280169
LF168	DRUMURE BOG	216285	279696
LF181	GARVAGH	221189	279201
LF184	GORTEEN LOUGH cNHA	222921	279571
LF185	DRUMMEEL	224904	278317
LF200	CARTRON EAST POND	233273	279357
LF263	AGHNASKEA CORNAFUNSHION CUTOVER	220916	284448
LF282	BALLYBRIEN PONDS (SOUTH)	230982	279984



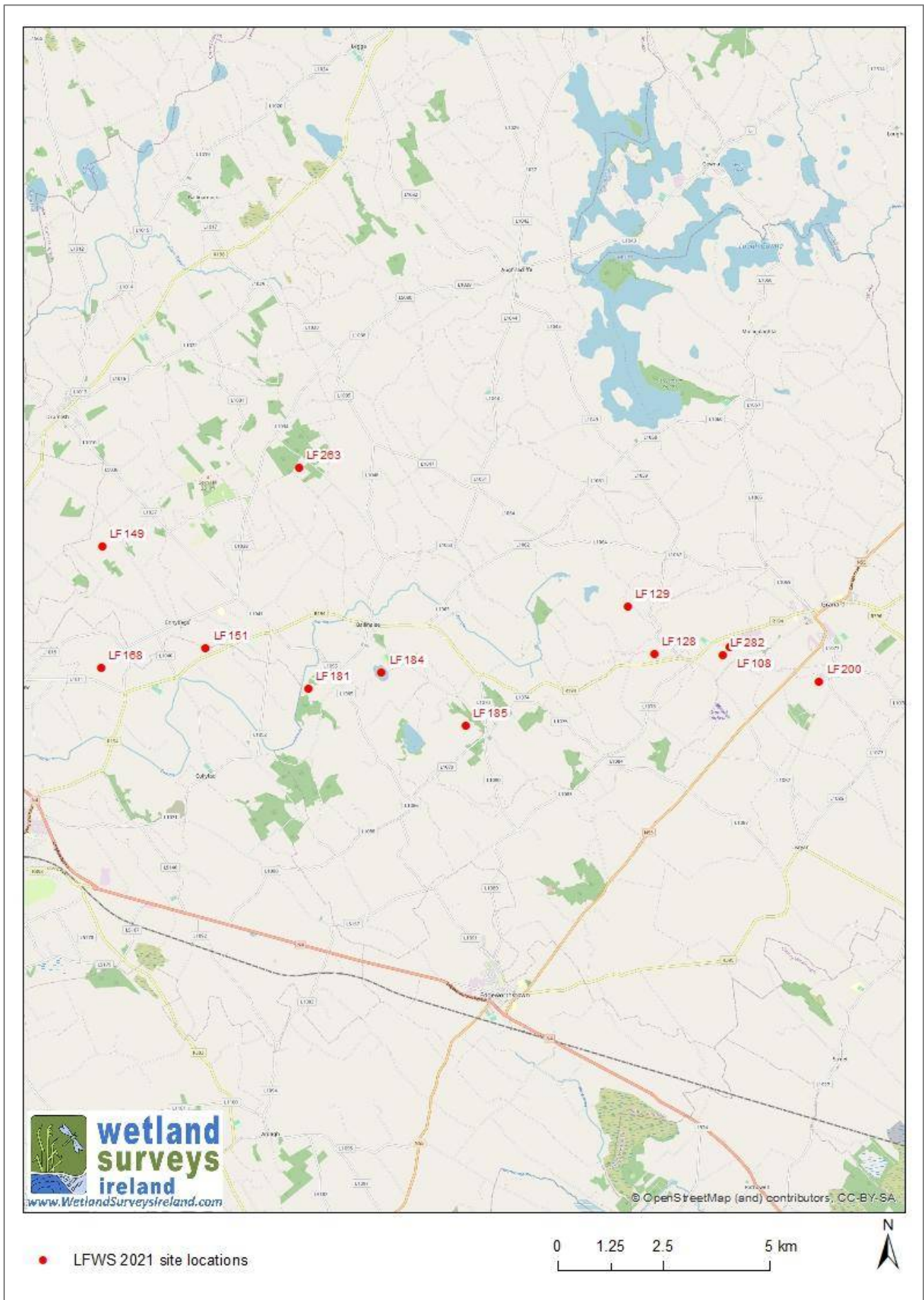


Figure 1: Location of sites selected for survey as part of the Longford Wetlands Field Survey III 2021.

### 3.2 Wetland types recorded during LFWS Field Survey 2021

Twelve sites were surveyed as part of the LFWS 2021. The habitats present (both wetland and non-wetland) within and surrounding each wetland site were recorded using Fossitt (2000) based on field survey observations. Summary descriptions of these wetland types, with examples of where they can be seen in County Longford is provided in Foss *et al.* (2017), while more detailed habitat descriptions with characteristic species is given in Fossitt (2000).

Wetland habitats recorded during the survey included a wide range of habitats of varying ecological importance. The most notable habitats that were encountered included: raised bogs, mesotrophic lakes, wet woodlands, and wet grasslands.

Wetlands of lower ecological interest that were recorded during the survey included reclaimed cutover bog, agricultural grassland areas, and wet grassland. A summary description of each site surveyed is presented in Table 2 below. Further site details are presented in detailed site reports are presented in Appendix 2.

**Table 2: Summary description of sites surveyed during the Longford Wetlands Field Survey 2020.**

LFWS Site Code	LFWS Site Name	Survey site location	Site Description
LF151	AGHABOY KILLETER CUTOVER	Former raised bog located 7.5km north east of Longford town.	Former raised bog that has been historically cut for fuel. Small remnants of degraded high bog remain. These areas are dominated by dense Ling Heather and Birch seedlings are common. The cutover is regenerating well with a dominance of wet bog vegetation with good <i>Sphagnum</i> cover. Birch woodland and scrub occur in the drier margins of the former bog.
LF263	AGHNASKEA CORNAFUNSHION CUTOVER	Upland site with wet heath and scrub surrounded by mature conifer plantations located 5.6km south east of Drumlish.	Former upland heath/bog area that has been subject to past drainage and peat cutting. Forestry dominates the surroundings. The wetland interest on the site is confined to remnant wet heath dominated by <i>Calluna vulgaris</i> with raised moss cushions. Birch and Willow scrub is common throughout the site.
LF282	BALLYBRIEN PONDS (SOUTH)	Ballybrien Ponds (South) are located 2.5km west of Granard.	Small enclosed depression dominated by freshwater marsh. Small area of open water used by cattle as a drinking water source. Mineral esker like ridge occurs close by.
LF108	BALLYBRIN	Farm pond with surrounding wetland vegetation located ca 2km west of Granard.	Small pond with floating macrophytes, mostly Pondweed. To the east, marginal wetland vegetation with Bogbean and Bottle Sedge occurs. This transitions into a floating raft of transition mire dominated by <i>Sphagnum squarrosum</i> and <i>S. palustre</i> with Bog Cotton, Bottle Sedge, and Bogbean. Further west, this grades into species poor wet grassland.



LFWS Site Code	LFWS Site Name	Survey site location	Site Description
LF200	CARTRON EAST POND	Site contains a mosaic of wetland habitats with tall herb and reed swamps dominating. Located 1.5km south of Granard.	The eastern part of site comprises <i>Molinia</i> dominated acid bog with <i>Potentilla erecta</i> and <i>Calluna vulgaris</i> . Further west, the bog grades into tall herb swamp with abundant Angelica, Meadowsweet, Valarian, and Purple loosestrife. Common Reeds dominate the wettest part of the site.
LF185	DRUMMEEL	Degraded raised bog located 3.2km south east of Ballinalee.	Degraded raised bog remnant of high bog surrounded by extensive regenerating cutover. The high bog is dominated by tall Ling Heather with low moss cover. The cutover comprises a mosaic of dry and wet bog communities. <i>Sphagnum</i> dominated communities are locally common in wetter areas. Bracken and Gorse occur in drier areas. Active peat cutting occurs on a single turbarry plot. The high bog is severely degraded with extensive cracking and slumping.
LF168	DRUMMURE BOG	Cutover bog located just west of Kilnatrauhan, County Longford.	Extensive area of regenerating cutover bog. Historically cut for fuel. The central part of the site is dominated by regenerating wet bog communities with Ling and Purple Moor-grass. Open canopy immature Birch is frequent, together with Lodge-pole Pine. Bracken and Gorse occur in drier areas. Locally abundant <i>Sphagnum</i> carpets are present where initial bog woodland establishment is occurring. Mature dry birch woodland surrounds the open regenerating bog.
LF181	GARVAGH	Low lying wetland within an enclosed depression. Located 2km south west of Ballinalee.	The central part of the wetland comprises a small area of transition mire with tall herb swamp. Wet Willow scrub is also present. The central part of the site is surrounded by good quality species rich wet grassland which is lightly grazed by cattle.
LF184	GORTEEN LOUGH cNHA	A mesotrophic lake with a well developed band of emergent vegetation and extensive freshwater marsh located 1km south of Ballinalee.	Mesotrophic lake with floating macrophytes and a band of emergent reed and herb swamp vegetation. An extensive area of species rich marsh and wet grassland surrounds the lake. Excellent successional transition from lake to surrounding agricultural lands. Light grazing occurs.

LFWS Site Code	LFWS Site Name	Survey site location	Site Description
LF129	KILLEEN BALLYMORE	Wet grassland area bordered by a straightened section of the River Camlin. Situated ca 5km west of Granard.	The main part of the site is comprised of species rich grassland. Relatively dry underfoot with old drains. Dominant species include <i>Holcus lanatus</i> , <i>Agrostis stolonifera</i> , <i>Cirsium palustre</i> and <i>Juncus effusus</i> . Likely a former floodplain that has been degraded due to former OPW drainage works. The site is bordered on the south by a straightened section of the river Camlin, which resembles a large drainage ditch. Tall herbs and reeds such as <i>Sparganium erectum</i> and <i>Phalarus arundinacea</i> occur along the channel which has a slow flow.
LF128	KILLEEN SOUTH	Low lying wetland dominated by tall herb swamp and willow woodland located 3.9km west of Granard.	Species poor tall herb swamp dominated by Meadowsweet occurs throughout this low lying wetland. Willow woodland and scrub is common. Bog communities with <i>Molinia</i> and Heather are occasional in some parts of the site together with Birch.
LF149	OGHIL WEST	Regenerating cutover bog located 7.8km north east of Longford town.	Former raised bog historically cut out for fuel. The main part of the site is dominated by open Ling Heather, Purple Moor-grass, and Birch with high moss cushions. Heathland species are common including Bilberry and Hard Fern. Dry Birch woodland occurs around the bog margin.



### 3.3 Floral Observations

Floral observations and records made on the sites surveyed are included in the LFWS database. Plant species lists for each site surveyed are included in the site reports presented in Appendix 2.

The following record of problematic invasive alien species is of note:



Plate 1: American Pitcher Plant (*Sarracenia purpurea*) on bog area at DRUMMURE BOG.

American pitcher plant (*Sarracenia purpurea*) – invasive species. Found on raised bog at DRUMMURE BOG. Recommendations are made in the site report to eradicate this invasive non-native species which can spread on raised bogs.

Japanese Knotweed (*Fallopia japonica*) – invasive species. Found at KILLEEN SOUTH. Recommendations are made in the site report to eradicate this invasive non-native species.

### 3.4 Site Conservation Assessment

On completion of the LFWS 2021 field survey, each of the twelve sites were reviewed and given a site conservation rating using the criteria presented in Appendix 1 (from NRA 2009). The site conservation rating for sites surveyed during 2021 is presented in Table 3 below.

Two sites (GORTEEN LOUGH cNHA and DRUMMURE BOG) are of County conservation value (C+) due to the occurrence of good quality habitats.

Nine sites are deemed to be of local high local conservation value (C). The one remaining site surveyed during the LFWS 2020 had a lower local conservation ranking (E).

Table 3: Conservation evaluation of sites surveyed during the LFWS 2021. Sites are ranked according to their conservation value.

LFWS Site Code	Site Name	Site Wetland Conservation Ranking	Presence of EU Annex Habitats
LF184	GORTEEN LOUGH cNHA	C+ Rating: County Conservation value	It is not thought that any of the habitats present within

LFWS Site Code	Site Name	Site Wetland Conservation Ranking	Presence of EU Annex Habitats
			this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF168	DRUMMURE BOG	C+ Rating: County Conservation value	Parts of the woodland area on this site may correspond to the EU Annex 1 habitat Bog woodland (91D0).
LF108	BALLYBRIN	C Rating: Local conservation value (high value)	The small area of transition mire on the site may correspond to the EU Annex I habitat 7140 Transition Mires and Quaking Bogs.
LF128	KILLEEN SOUTH	C Rating: Local conservation value (high value)	It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF151	AGHABOY KILLETER CUTOVER	C Rating: Local conservation value (high value)	It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF181	GARVAGH	C Rating: Local conservation value (high value)	This is a good example of 7140 Transition mires and quaking bogs which is a habitat listed under Annex I of the EU Habitats Directive.
LF185	DRUMMEEL	C Rating: Local conservation value (high value)	It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF200	CARTRON EAST POND	C Rating: Local conservation value (high value)	Areas of tall herb swamp within site may correspond to the EU Annex I habitat 6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels.
LF263	AGHNASKEA CORNAFUNSHION CUTOVER	C Rating: Local conservation value (high value)	It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF282	BALLYBRIEN PONDS (SOUTH)	C Rating: Local conservation value (high value)	It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF149	OGHIL WEST	C Rating: Local conservation value (high value)	It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.
LF129	KILLEEN BALLYMORE	E Rating: Local conservation value (low value)	It is not thought that any of the habitats present within this site correspond to a

LFWS Site Code	Site Name	Site Wetland Conservation Ranking	Presence of EU Annex Habitats
			habitat listed under Annex I of the EU Habitats Directive.

### 3.5 Threats and Damage to County Longford Wetlands

The majority, if not all, of Irish wetland sites, and by extension those in county Longford, have been subject to some degree of human impact, damage or modification from their natural state in the past, and continue to be threatened and decline in extent due to ongoing human activities (NPWS 2019; Foss & Crushell 2007; Foss 2007). A summary table of impacts and the wetland types most affected is presented in Table 4 below.

Wetlands, (bog, fen, and marsh areas in particular) have historically been regarded as less productive than adjacent agricultural land and measures have been taken to 'improve' their value for agriculture. The principal method of land improvement usually involved one or more of the following; drainage, infill or soil redistribution, burning, and addition of nutrients. These activities were undertaken so as to facilitate the removal of peat, planting of trees, or the creation of new grazing areas, pasture or arable farmland.

Historical evidence indicates that peatlands or bogs, and by extension fens and other associated wetlands, were increasingly utilised by the growing population throughout Ireland. The removal of peat by this growing population resulted in many worked out bogs, which when abandoned became ideal locations for the formation of secondary wetland habitats (fen, marsh and wet woodland *inter alia*).

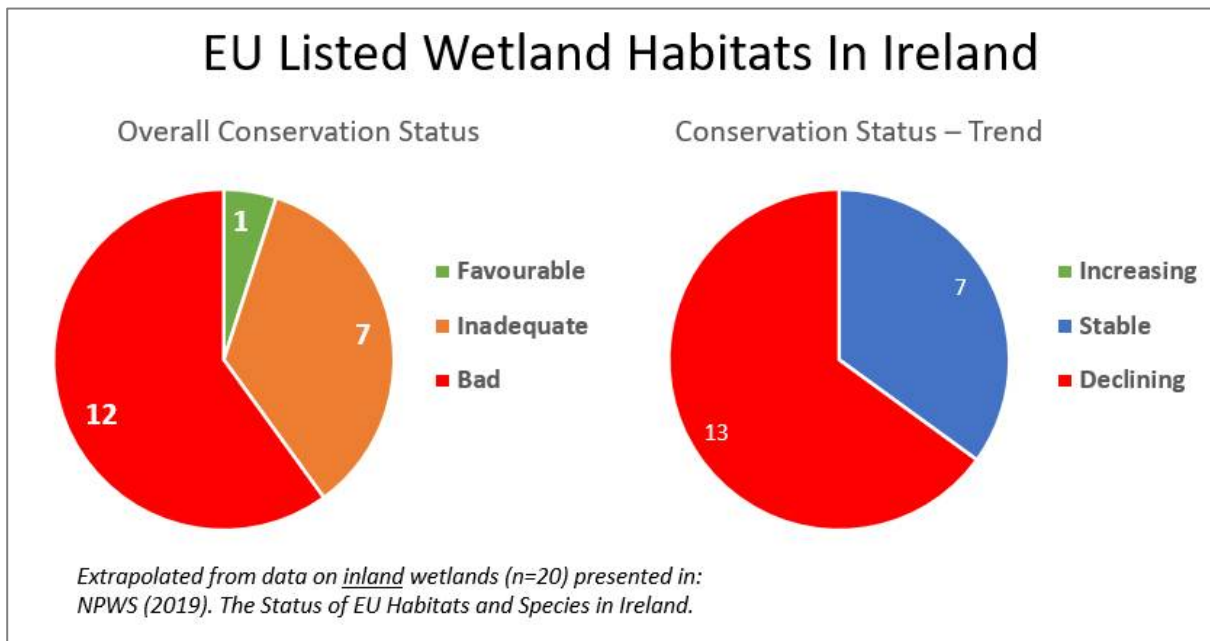
A more recent trend has been the use of wetlands as areas to dispose of building rubble, rubbish, and landfill materials (Foss & Crushell 2007; Monaghan County Council 2006).

Land conversion and drainage works are ongoing agricultural management techniques which affect the hydrology of wetland habitats.

The 2019 NPWS report on the conservation status of EU Habitat Directive sites in Ireland (NPWS 2019), many of which are wetlands, found that the conservation status of these habitats is far from satisfactory. In fact the overall assessment for inland wetland habitat types listed under the EU Habitats Directive found that only a single habitat was in favourable conservation status, while seven were 'unfavourable - inadequate' and twelve habitat types were deemed to have a 'unfavourable – bad' conservation status overall. The trend for a number of habitats also suggests that their conservation status is in decline during the period 2013-2019.

Included in the latter 'unfavourable – bad' conservation status category were habitats such as; oligotrophic and hard water lakes, raised bogs (active and degraded), blanket bogs, wet heath, transition mires, alkaline fens, tall herb swamps, and alluvial wet woodland. These habitats account for a significant part of the wetland habitat resource in county Longford.





**Figure 2: Summary of conservation status reported by NPWS (2019).**

**Table 4: Natura 2000 Impacts and Activities which are likely to have a negative effect on wetlands, and the wetland type most likely to be affected by these activities.**

<b>Natura 2000 Impacts and Activities Main Code</b>	<b>Impacts and Activities Category with brief description</b>	<b>Wetland habitat types most at threat or likely to be affected from Impacts and Activities</b>
A	<b>Agriculture</b> <i>Including cultivation, fertilization abandonment, and over grazing</i>	Fens, Marsh, Raised bog, Wet heath, Reed swamp, Lake and Lake margins, Wet grassland, Wet woodland, Bog woodland, Rivers
B	<b>Sylviculture, forestry</b> <i>Including fertilisation, planting and re-planting, forestry practices</i>	Fens, Marsh, Raised bog, Wet heath, Reed swamp, Lake and Lake margins, Wet grassland, Wet woodland, Bog woodland, Turlough, Rivers
C	<b>Mining, extraction of materials and energy production</b> <i>Including quarry activities, turbarry and peat removal</i>	Raised bog, Dystrophic lake, Bog woodland
D	<b>Transportation and service corridors</b> <i>Including road construction, power transmission</i>	All wetland types
E	<b>Urbanisation, residential and commercial development</b> <i>Including Urban and industrial development, discharges and waste disposal</i>	Fen, Bog, Marsh, Wet Grassland, Scrub
F	<b>Biological resource use other than agriculture &amp; forestry</b> <i>Including leisure fishing, hunting</i>	Lake, Fen, Marsh, River, Bog
G	<b>Human intrusions and disturbances</b> <i>Including recreational facilities, outdoor leisure activities, littering, trampling overuse</i>	Bog, Fen, Marsh, Reed Swamp, Wet Grassland
H	<b>Pollution</b> <i>Including surface and groundwater water pollution, air pollution</i>	Oligotrophic Lake, River, Marsh, Fen
I	<b>Invasive, other problematic species and genes</b> <i>Including invasive species, genetic pollution</i>	Oligotrophic Lake, River, Marsh, Fen
J	<b>Natural System modifications</b> <i>Including landfill, drainage, drain maintenance, water abstraction, burning</i>	Fen, Marsh, Bog, Reed Swamp, Lake margins, Wet grassland, River
K	<b>Natural biotic and abiotic processes (without catastrophes)</b> <i>Including organic material accumulation</i>	Fen, Marsh, Bog, Wet woodland

During the course of the LFWS 2021, different types of damage to wetlands were noted, and an overall assessment of the severity was undertaken where information was available. This was undertaken on all sites surveyed as part of the study. The following scale for the severity of damage used was: Not serious; Serious; Very Serious, and Unknown.

The individual site reports presented in Appendix 2 describe all specific threats or damage and associated severity on each of the wetland sites surveyed. In many cases more than one damaging activity / threat was recorded on an individual site.

In summary, the main activities that are impacting on the conservation interest of wetlands in County Longford include; drainage, peat extraction (historic, recent, and on-going), diffuse water pollution, dumping, in-filling, and invasive non-native species.

## 4 Conclusions and Recommendations

### 4.1 *Distribution and Extent of the Longford Wetland Resource*

The results of the LFWS 2021 shows that the main GIS layer which was developed for the identification of potential wetlands in Longford (Longford & Roscommon Wetland Study, Foss *et al.* 2017) is a useful tool in identifying wetlands of ecological importance in the county.

Of the twelve sites identified in the LFWS project 2017 (Foss *et al.* 2017) which were surveyed during 2021, most supported wetland habitats of conservation significance.

There is a commitment in the recently published Climate Action Plan (Government of Ireland 2019) to 'upgrade habitat mapping systems to establish the baseline condition of wetlands'. This project is a step towards furthering that national commitment. It is recommended that further inventory work is required throughout the country to adequately address the deficit in baseline data on the extent and condition of wetland habitats.

### 4.2 *Site Designations*

It is recommended that all wetland sites which have been identified in this survey, and rated as C+ (of county importance) are forwarded to the National Parks and Wildlife Service (NPWS) for inclusion on their list of sites for survey and possible designation.

### 4.3 *Planning Controls*

Sites which are listed as being of county importance (C+), high local importance (C) and of moderate local importance (D) should be highlighted and included in any recommendations made under the County Biodiversity Action Plan or included in local area plans, county development plans or other planning strategies. Again, such recommendations for recognition and listing of sites should be made on a regular basis as further information on the wetland resource of county Longford becomes known.

It is recommended that council planners consult with the GIS layers, which indicate potential wetlands in county Longford, where a development could adversely affect a wetland – through water abstraction, infilling, drainage, etc.

In the event that an application is made that could potentially impact on these sites, a site visit should be conducted by a suitably qualified ecologist to determine the importance and sensitivity of the area.

It is recommended that council staff should be aware of a variety of issues regarding wetlands when assessing development proposals and planning applications. These include:

- The need for an appropriate buffer zone surrounding wetland sites
- The importance of hydrology in how wetland sites function and how indirect impacts on a wetland system can be caused by activities occurring at some distance from the wetland
- The cumulative effect of seemingly isolated losses of wetland habitats across the county
- The loss of wetland habitats as a result of fragmentation of sites and impacts on wetland hydrology
- The ecological value of wetland habitats adjacent to, and fringing, lakes and ponds



- The ecological value of large areas of reed and tall sedge swamps, rivers and river flood plains in controlling and reducing the impacts of flooding events
- The wetland fauna, some of which are listed on Annex II of the Habitats Directive found in the county wetlands and the potential impacts on these species as well as their habitats
- The limited coverage provided in the initial NPWS NHA survey – this was never a comprehensive survey of the entire county – many sites of high nature conservation value remain undesignated
- The potential value of wetland sites which are outside statutory designated areas and the need for adoption of a precautionary approach when assessing applications that may impact on same.

#### **4.4 Ongoing Maintenance of the County Longford Wetland Map Site Database**

It is probable that additional third party survey information on wetland sites listed in the County Longford Wetland site database exists.

It is recommended that this site data is compiled within the database and that it is kept up to date where possible by collating data from additional surveys, EIS documents, etc. This work needs to be done concurrently with ongoing maintenance of the County Longford Wetland Survey GIS dataset and following the naming procedure described in Foss *et al.* 2017.

#### **4.5 Ongoing Maintenance of the County Longford Wetland Map GIS Dataset**

Coupled with ongoing updates of the County Longford Wetland survey and site database (Foss *et al.* 2017) it is recommended that the GIS layers are also regularly updated as new information becomes available.

#### **4.6 Hydrological Assessment of Wetland Sites**

A hydrological assessment of all sites which have been given a rating of C+ should be commissioned in order to assist in our understanding of the hydrological functioning of these wetlands.

#### **4.7 Management and Restoration of Wetland Sites**

Agricultural activities have the potential to adversely affect wetland habitats. Drainage, land reclamation, and enrichment from fertilizer application are among the agricultural activities that were recorded as damaging the integrity of wetland sites in County Longford during the current study. It is important that, through appropriate agri-environmental schemes, land management practices in the vicinity of wetland sites recognise the value and sensitivity of wetland ecosystems.

The importance of wetlands in the sequestration of carbon is increasingly recognised. The national Climate Action Plan (Government of Ireland 2019) calls for improved management of peatlands (and other wetlands) and soils. Measures and incentives to re-wet and restore wetland habitats in County Longford should be explored. Payment for Results Agri-environmental Schemes such as the successful Burren Programme and other projects (Pearl Mussel Programme, Hen Harrier Project, and RBAPS) provide a good template which could be adapted to targeting improved management of wetland habitats within an agricultural landscape.

#### **4.8 Control of invasive species in wetland sites**

It is important that the establishment and spread of invasive species within wetland sites is controlled as they have the potential to adversely affect the biodiversity interest of wetlands, cause serious nuisance and can be very costly and difficult to remove once they become established.

Typical species affecting wetlands include Rhododendron (*Rhododendron ponticum*), Japanese Knotweed (*Fallopia japonica*), Himalayan Balsam (*Impatiens glandulifera*), Fringed Water Lily (*Nymphoides peltata*), and Parrot's Feather (*Myriophyllum aquaticum*). It is recommended that all records of invasive species in County Longford are submitted to the Invasive Species Ireland database (<http://www.invasivespeciesireland.com/sighting/>) where advice on control and removal of species is available.

#### **4.9 Local Authority Wetlands Policy**

A review of the statutory provisions that govern the management of wetlands in County Longford (such as the Habitats Directive, Wildlife Act, Water Framework Directive, Environmental Liability Directive, Nitrates Directive, Planning Act, etc.) should be conducted and the role of the Local Authority in this regard should be examined. This review could be done in collaboration with other Local Authorities.

Increased co-ordination between agencies in their policy and operative approaches to wetlands need to be strengthened.

#### **4.10 Water Framework Directive**

As a member of the European Union, Ireland must, as of the 22<sup>nd</sup> December 2000 implement the Water Framework Directive (2000/60/EC). This directive provides a consolidated, strengthened framework for the protection and improvement of all of our waters - rivers, lakes, marine and ground waters, and of our water-dependent habitats and species. The aim of the Water Framework Directive is to prevent any deterioration in the existing status of our waters, including the protection of good and high status where it exists, and to ensure that all waters are restored to at least good status by 2015.

The objectives of the WFD are:

- to protect and enhance the status of aquatic ecosystems (and terrestrial ecosystems and wetlands directly dependent on aquatic ecosystems)
- to promote sustainable water use based on long-term protection of available water resources
- to provide for sufficient supply of good quality surface water and groundwater as needed for sustainable, balanced and equitable water use
- to provide for enhanced protection and improvement of the aquatic environment by reducing / phasing out of discharges, emissions etc.
- to contribute to mitigating the effects of floods and droughts
- to protect territorial and marine waters
- to establish a register of 'protected areas' e.g. areas designated for protection of habitats or species

Clearly the identification of wetland habitats in County Longford assists in fulfilling not only obligations under the EU Habitats Directive and the National Biodiversity Plan (Department of Culture, Heritage and the Gaeltacht 2017), but also in implementing the Water Framework Directive.

#### **4.11 Public Information and Interpretation**

Public awareness about the importance of wetlands in county Longford could be developed through a series of targeted measures. These could include:

- Specific events county-wide as part of 'biodiversity week' or 'heritage week' which take place annually. Similarly, World Wetlands Day provides an opportunity to hold public events relating to wetlands (further details are available from [http://www.ramsar.org/wwd/wwd\\_index.htm](http://www.ramsar.org/wwd/wwd_index.htm))
- Continued promotion of the 'Longford's Wetlands' Story map resource (Gallagher *et al.* 2020)
- A series of school visits celebrating local wetlands – co-ordinated through the Heritage in Schools Scheme
- Public display boards and signage at popular wetland sites
- A workshop on wetland management for landowners and farmers



## 5 Bibliography

The bibliography list is presented in alphabetical order by author. Code number appearing on the LHS is the reference/report code number in the LFWS Bibliography Database.

- Corbett, P. (2004) Unpublished EHS Field Manual for Fens Condition Assessment. (Revised June 2004).
- Crushell, P., Gallagher, M.C. & Foss, P. (2020) County Longford Wetlands Field Survey II 2020. Report prepared for Longford County Council.
- Department of Culture, Heritage, and the Gaeltacht (2019). National Biodiversity Plan 2017-2021.
- European Commission (2013) Interpretation Manual of European Union Habitats – EUR 28. European Commission, DG Environment.
- Ferguson-Lee, J., Willis, I & Sharrock, J.T.R. (1983) The Shell Guide to the Birds of Britain and Ireland. Michael Joseph Ltd., London.
- Foss, P.J. (2007) National Parks & Wildlife Service Study of the Extent and Conservation Status of Springs, Fens and Flushes in Ireland 2007. Internal report for the National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Ireland.
- Foss, P.J. & Crushell, P. (2007) Monaghan Fen Survey I - 2007 (Vols. 1-3). Report for Monaghan County Council and the National Parks & Wildlife Service, Dublin.
- Foss, P.J., Crushell, P. & Gallagher, M.C. (2017) Counties Longford & Roscommon Wetland Study. Report prepared for Longford & Roscommon County Councils.
- Foss, P.J., Gallagher, M.C. & Crushell, P. (2019) County Longford Wetlands Field Survey 2019. Report prepared for Longford County Council.
- Fossitt, J. (2000) A Guide to Habitats in Ireland. The Heritage Council, Ireland.
- Gallagher, M.C., Crushell, P. & Foss, P. (2020) Longford's Wetlands. A story map about wetland habitats in County Longford. Online ESRI web app. Online resource for Longford County Council.
- Government of Ireland (2019). Climate Action Plan 2019 to Tackle Climate Breakdown.
- LCC (2015) Draft County Longford Heritage Plan 2015-2020. Incorporating the Longford Biodiversity Action Plan. County Longford Heritage Forum, Longford County Council.
- NPWS (2019) The Status of EU Protected Habitats and Species in Ireland. Habitat Assessments Volume 2. Version 1.0. Unpublished Report, National Parks & Wildlife Services. Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
- NPWS (2017a) National Biodiversity Action Plan 2017-2021. National Parks & Wildlife Service, Department of Culture, Heritage and the Gaeltacht.
- NRA (2009) Guidelines for Assessment of Ecological Impacts of National Roads Schemes. National Road Authority. pp. 79.
- O'Neill, F.H., Martin, J.R., Devaney, F.M. & Perrin, P.M. (2013) The Irish semi-natural grasslands survey 2007-2012. Irish Wildlife Manuals, No. 78. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Ireland.
- Perrin, P.M., Barron, S.J., Roche, J.R. & O'Hanrahan, B. (2013) Guidelines for a national survey and conservation assessment of upland vegetation and habitats in Ireland. Version 2.0. Irish Wildlife Manuals, No. 79. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland. Draft Report.
- Scannell, M.J.P. & Synnott, D.M. (1987) Census catalogue of the flora of Ireland. The Stationery Office, Dublin.
- Sterry, P. (2004) Complete Irish Wildlife. Harper Collins Publishers, London, pp. 319.
- Webb D.A., Parnell, J. & Doogue, D. (1996) An Irish Flora. Dundalgan Press Ltd., Dundalk.

## **Appendix 1**

### ***National Roads Authority (2009) Site Evaluation Criteria***

## Appendix 1: Site Evaluation Criteria

*Modified from National Roads Authority (2009). Guidelines for Assessment of Ecological Impacts of National Roads Schemes.*

Rating	Importance of Ecological Sites
A	<p><b>Internationally important</b></p> <p>Sites designated (or qualifying for designation) as SAC* or SPA* under the EU Habitats or Birds Directives.</p> <p>Undesignated sites containing good examples of Annex I <u>priority</u> habitats under the EU Habitats Directive.</p> <p>Sites designated (or qualifying for designation) as SAC* for salmonids or Annex II species under the EU Habitats Directives.</p> <p>Major salmon river fisheries.</p> <p>Major salmonid (salmon, trout or char) lake fisheries.</p>
B	<p><b>Nationally important</b></p> <ul style="list-style-type: none"> <li>• Sites or waters designated or proposed as an NHA* or statutory Nature Reserves.</li> <li>• Undesignated sites containing good examples of Annex I habitats (under EU Habitats Directive).</li> <li>• Undesignated sites containing <u>significant numbers</u> of resident or regularly occurring populations of Annex II species under the EU Habitats Directive or Annex I species under the EU Birds Directive or species protected under the Wildlife (Amendment) Act 2000.</li> <li>• Major trout river fisheries.</li> <li>• Water bodies with major amenity fishery value.</li> <li>• Commercially important coarse fisheries.</li> </ul>
C+	<p><b>County value</b></p> <p>Area of Special Amenity.</p> <p>Area subject to a Tree Preservation Order.</p> <p>Area of High Amenity, or equivalent, designated under the County Development Plan.</p> <p>Resident or regularly occurring populations (assessed to be important at the County level) of the following:</p> <ul style="list-style-type: none"> <li>• Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive;</li> <li>• Species of animal and plants listed in Annex II and/or IV of the Habitats Directive;</li> <li>• Species protected under the Wildlife Acts; and/or</li> <li>• Species listed on the relevant Red Data list.</li> </ul> <p>Site containing area or areas of the habitat types listed in Annex I of the Habitats Directive that do not fulfill the criteria for valuation as of International or National importance.</p> <p>County important populations of species, or viable areas of semi-natural habitats or natural heritage features identified in the National or Local BAP, if this has been prepared.</p> <p>Sites containing habitats and species that are rare or are undergoing a decline in quality or extent at a national level.</p>
C	<p><b>High value, locally important</b></p> <p>Sites containing semi-natural habitat types with high biodiversity in a local context and a high degree of naturalness, or significant populations of locally rare species.</p> <p>Sites containing any resident or regularly occurring populations of Annex II species under the EU Habitats Directive or Annex I species under the EU Birds Directive.</p> <p>Small water bodies with known salmonid populations or with good potential salmonid habitat.</p> <p>Large water bodies with some coarse fisheries value.</p>
D	<p><b>Moderate value, locally important</b></p> <p>Sites containing some semi-natural habitat or locally important for wildlife.</p> <p>Small water bodies with some coarse fisheries value or some potential salmonid habitat.</p> <p>Any water body with unpolluted water (Q-value rating 4-5).</p>
E	<p><b>Low value, locally important</b></p> <p>Artificial or highly modified habitats with low species diversity and low wildlife value.</p> <p>Water bodies with no current fisheries value and no significant potential fisheries value.</p>
F	<p><b>Unknown Value</b></p> <p>Sites of possible ecological value which require further investigation at the optimum season to establish importance.</p> <p>Sites of possible fisheries value requiring further survey.</p>

\* SAC = Special Area of Conservation, SPA = Special Protection Area, NHA = Natural Heritage Area



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## Appendix 2: Individual Site Reports from the Longford Wetlands Field Survey 2021

*Sites are listed in alphabetical order by site name*

LFWS Site Code	LFWS Site Name	Page
LF108	BALLYBRIN	25
LF128	KILLEEN SOUTH	30
LF129	KILLEEN BALLYMORE	35
LF149	OGHIL WEST	40
LF151	AGHABOY KILLETER CUTOVER	45
LF168	DRUMURE BOG	51
LF181	GARVAGH	57
LF184	GORTEEN LOUGH cNHA	62
LF185	DRUMMEEL	67
LF200	CARTRON EAST POND	72
LF263	AGHNASKEA CORNAFUNSHION CUTOVER	77
LF282	BALLYBRIEN PONDS (SOUTH)	82

**Site Name:** BALLYBRIN**Site Code:** LF108 **Area (ha):** 0.45 **Grid Ref:** 231160 280183 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

17/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

BALLYBRIEN

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

TLPSSS

**Substrate type:**Mineral Soil  
Peat**Substrate stability:**

Some quaking

**River catchment:**

Shannon Up

**CORINE Habitats:**

Pastures

**Site Location**

Farm pond with surrounding wetland vegetation located ca 2km west of Granard.

**Site Description and Wetland Habitats Recorded**

Small pond with floating macrophytes, mostly Pondweed. To the east marginal wetland vegetation with bogbean and bottle sedge. This transitions into a floating raft of transition mire dominated by *Sphagnum squarrosum* and *S. palustre* with bog cotton, bottle sedge, and bogbean. Further west this grades into species poor wet grassland.

**Target Notes** - (see *Habitat Map for location of Target Notes*)

No.	Category	Comment
NA	NA	None

**Management Recommendations following survey**

Reduce grazing and trampling by cattle.

**Future Survey Recommendations**

None

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

The small area of transition mire on the site may correspond to the EU Annex I habitat 7140 Transition Mires and Quaking Bogs.

**Main Fossitt habitats on site**

FL5 Eutrophic lakes

GM1 Marsh

GS4 Wet grassland

PF3 Transition mire & quaking bog

**Fossitt habitats surrounding site**

GA1 Improved agricultural grassland

WD4 Conifer plantation

WL1 Hedgerows

**EU Habitats Directive habitats on site**

7140 Transition mires and quaking bogs

**Landuse / Management Activity**

Grazing - cattle

**Frequency of use****Impacting Activity (EU code and title)**

H01.05 diffuse pollution to surface waters due to agricultural and forestry B = medium

A04.02.01 non intensive cattle grazing

**Intensity**

B = medium

**Impact**

- 1 = reparable negative influence

- 1 = reparable negative influence

**Threats**

A04.02.01 non intensive cattle grazing

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Agrostis stolonifera*

Creeping Bent

*Calliergonella cuspidata*

Pointed Spear Moss

*Carex rostrata*

Bottle Sedge

*Comarum palustre*

Marsh Cinquefoil

*Dryopteris spp.*

Fern

*Eriophorum angustifolium*

Common Cottongrass

*Hydrocotyle vulgaris*

Marsh Pennywort

<i>Juncus articulatus</i>	Jointed Rush
<i>Juncus effusus</i>	Soft-rush
<i>Menyanthes trifoliata</i>	Bogbean
<i>Polygonum hydropiper</i>	Amphibious Bistort
<i>Potamogeton natans</i>	Broad-leaved Pondweed
<i>Potentilla erecta</i>	Tormentil
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Rhytidiadelphus squarrosus</i>	Moss
<i>Senecio jacobaea</i>	Common Ragwort
<i>Sphagnum palustre</i>	Blunt-leaved Bog Moss
<i>Sphagnum squarrosum</i>	Spiky Bog Moss
<i>Stellaria graminea</i>	Lesser Stitchwort

**Fauna on site - English and Latin species name**

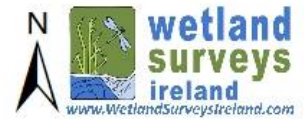
Common Frog	<i>Rana temporaria</i>
Common Snipe	<i>Gallinago gallinago</i>
Grey Heron	<i>Ardea cinerea</i>
Mallard	<i>Anas platyrhynchos</i>
Moorhen	<i>Gallinula chloropus</i>

Aerial Photograph showing location of the site



 Site boundary

0 5 10 20 m



NPWS NHA site boundary.

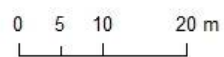


GIS Habitat map of the site



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Site boundary
-  Eutrophic lakes (FL5)
-  Transition mire and quaking bog (PF3)
-  Wet grassland / Marsh (GS4/GM1)



**Site Name:** KILLEEN SOUTH

**Site Code:** LF128    **Area (ha):** 5.18    **Grid Ref:** 229381 280021    **County:** LF



**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell & Joe O’Sullivan

**Date of wetland survey:**

17/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**

Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset

**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

KILLEEN (GRANARD BY)

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

Cut

**Substrate type:**

Peat

**Substrate stability:**

Soft Ground

**River catchment:**

Shannon Up

**CORINE Habitats:**

Non-irrigated arable land

**Site Location**

Low lying wetland dominated by tall herb swamp and willow woodland located 3.9km west of Granard.

**Site Description and Wetland Habitats Recorded**

Species poor tall herb swamp dominated by Meadowsweet occurs throughout this low lying wetland. Willow woodland and scrub is common. Bog communities with *Molinia* and heather are occasional in some parts of the site together with birch.

**Target Notes** - (see *Habitat Map for location of Target Notes*)

No.	Category	Comment
N1	Invasive	Japanese knotweed along roadside.
N2	General	Viewed wetland from this location. Access not possible due to marginal drains and dense nature of vegetation.

**Management Recommendations following survey**

Remove invasive species Japanese Knotweed from site.

**Future Survey Recommendations**

None

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

FS2 Tall herb swamps

FW4 Drainage ditches

WN6 Wet willow-alder-ash woodland

WS1 Scrub

**EU Habitats Directive habitats on site**

None noted

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces

GA1 Improved agricultural grassland

GS4 Wet grassland

WD4 Conifer plantation

WL1 Hedgerows

WL2 Treelines

**Landuse / Management Activity**

Grazing - cattle

**Frequency of use****Impacting Activity (EU code and title)**

H01.05 diffuse pollution to surface waters due to agricultural and forestry B = medium

**Intensity****Impact**

- 1 = reparable negative influence

**Threats**

H01.05 diffuse pollution to surface waters due to agricultural and forestry activities

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Arrhenatherum elatius*

False Oat-grass

*Betula pubescens*

Downy Birch

*Calluna vulgaris*

Ling Heather

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<i>Calystegia sepium</i>	Hedge Bindweed
<i>Centaurea nigra</i>	Common Knapweed
<i>Cirsium palustre</i>	Marsh Thistle
<i>Dactylis glomerata</i>	Cock's-foot
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Fallopia japonica</i>	Japanese Knotweed
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Fraxinus excelsior</i>	Ash
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Juncus effusus</i>	Soft-rush
<i>Juncus inflexus</i>	Hard Rush
<i>Lythrum salicaria</i>	Purple-loosestrife
<i>Molinia caerulea</i>	Purple Moor-grass
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Rubus fruticosus agg.</i>	Blackberry
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Schedonorus arundinaceus</i>	Tall Fescue
<i>Stellaria graminea</i>	Lesser Stitchwort

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**Fauna on site - English and Latin species name**

No faunal observations were made

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Aerial Photograph showing location of the site



 Site boundary

0 20 40 80 m



NPWS NHA site boundary.



GIS Habitat map of the site



**Site Name:** KILLEEN BALLYMORE**Site Code:** LF129 **Area (ha):** 2.93 **Grid Ref:** 228748 281159 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

18/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

E Rating: Local conservation value (low value)

**Townland:**

BALLYMORE

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

Cut

**Substrate type:**

Mineral Soil

**Substrate stability:**

Very firm

**River catchment:**

Shannon Up

**CORINE Habitats:**

Pastures



**Site Location**

Wet grassland area bordered by a straightened section of the River Camlin. Situated ca 5km west of Granard.

**Site Description and Wetland Habitats Recorded**

Main part of site comprised of species rich grassland. Relatively dry underfoot with old drains. Dominant species include *Holcus lanatus*, *Agrostus stolonifera*, *Cirsium palustre* and *Juncus effusus*. Likely a former floodplain that has been degraded due to former OPW drainage works. The site is bordered on the north by a straightened section of the river Camlin, which resembles a large drainage ditch. Tall herbs and reeds such as *Sparganium erectum* and *Phalaris arundinacea* occur along the channel which has a slow flow.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
N1	General	Archeological feature visible on aerial but nothing obvious on ground. Not showing up as a recorded monument.

**Management Recommendations following survey**

None

**Future Survey Recommendations**

Aerial photograph suggests presence of archaeological site.

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

FW2 Depositing/lowland rivers

FW4 Drainage ditches

GS4 Wet grassland

**EU Habitats Directive habitats on site**

None noted

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces

GA1 Improved agricultural grassland

GS1 Dry calcareous and neutral grassland

WL1 Hedgerows

WL2 Treelines

WN2 Oak-ash-hazel woodland

WS1 Scrub

**Landuse / Management Activity**

Grazing - sheep

**Frequency of use**

3 Frequent (21-50%)

**Impacting Activity (EU code and title)**

J02.05 Modification of hydrographic functioning, general

A04.02.02 non intensive sheep grazing

**Intensity**

B = medium

B = medium

**Impact**

- 1 = reparable negative influence

0 = neutral

**Threats**

A04.02.02 non intensive sheep grazing

J02.05 Modification of hydrographic functioning, general

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Anthoxanthum odoratum*

Sweet Vernal-grass

*Arrhenatherum elatius*

False Oat-grass

<i>Berula erecta</i>	Lesser Water-parsnip
<i>Cirsium palustre</i>	Marsh Thistle
<i>Crataegus monogyna</i>	Hawthorn
<i>Deschampsia cespitosa</i>	Tufted Hair-grass
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Iris pseudacorus</i>	Yellow Iris
<i>Juncus effusus</i>	Soft-rush
<i>Lemna minor</i>	Common Duckweed
<i>Phalaris arundinacea</i>	Reed Canary-grass
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Rumex obtusifolius</i>	Broad-leaved Dock
<i>Sparganium erectum</i>	Branched Bur-reed
<i>Urtica dioica</i>	Common Nettle
<i>Valeriana officinalis</i>	Common Valerian

**Fauna on site - English and Latin species name**

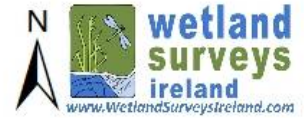
Small Tortoiseshell	<i>Aglais urticae</i>
Small White	<i>Pieris rapae</i>

**Aerial Photograph showing location of the site**



 Site boundary

0 20 40 80 m



NPWS NHA site boundary.



GIS Habitat map of the site



**Site Name:** OGHIL WEST**Site Code:** LF149 **Area (ha):** 55.90 **Grid Ref:** 216309 282578 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

16/08/2021

**Survey Code:**

LFWS 2021

**Site source information:****Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

OGHIL

**Solid Geology:**

Derryveeny Formation

**Subsoil type:**

Cut

**Substrate type:**

Peat

**Substrate stability:**

Soft Ground

**River catchment:**

Shannon Up

**CORINE Habitats:**

Peat bogs

**Site Location**

Regerating cutover bog located 7.8km north east of Longford town.

**Site Description and Wetland Habitats Recorded**

Former raised bog historically cut out for fuel. Main part of site is dominated by open Ling, Purple moorgrass, and Birch with high moss cushions. Heathland species are common including Bilberry and Hard fern. Dry birch woodland occurs around the bog margin.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
N1	Damage	Builders rubble discarded at roadside on wetland margin.

**Management Recommendations following survey**

Remove discarded builders rubble from roadside.

**Future Survey Recommendations**

Assess restoration potential.

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

BL3 Buildings and artificial surfaces  
 GS4 Wet grassland  
 PB4 Cutover bog  
 WN7 Bog woodland  
 WS1 Scrub

**EU Habitats Directive habitats on site**

None noted

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces  
 GA1 Improved agricultural grassland  
 GS4 Wet grassland  
 WD4 Conifer plantation  
 WL1 Hedgerows  
 WL2 Treelines

**Landuse / Management Activity**

None

**Frequency of use****Impacting Activity (EU code and title)**

Impacting Activity (EU code and title)	Intensity	Impact
J02.05 Modification of hydrographic functioning, general	B = medium	- 1 = reparable negative influence
E03.03 disposal of inert materials	B = medium	- 1 = reparable negative influence
E03.01 disposal of household waste	B = medium	- 1 = reparable negative influence
J02.05 Modification of hydrographic functioning, general	B = medium	- 2 = irreparable negative influence

**Threats**

E03.01 disposal of household waste  
 E03.03 disposal of inert materials  
 J02.01.03 infilling of ditches, dykes, ponds, pools, marshes or pits  
 J02.05 Modification of hydrographic functioning, general

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

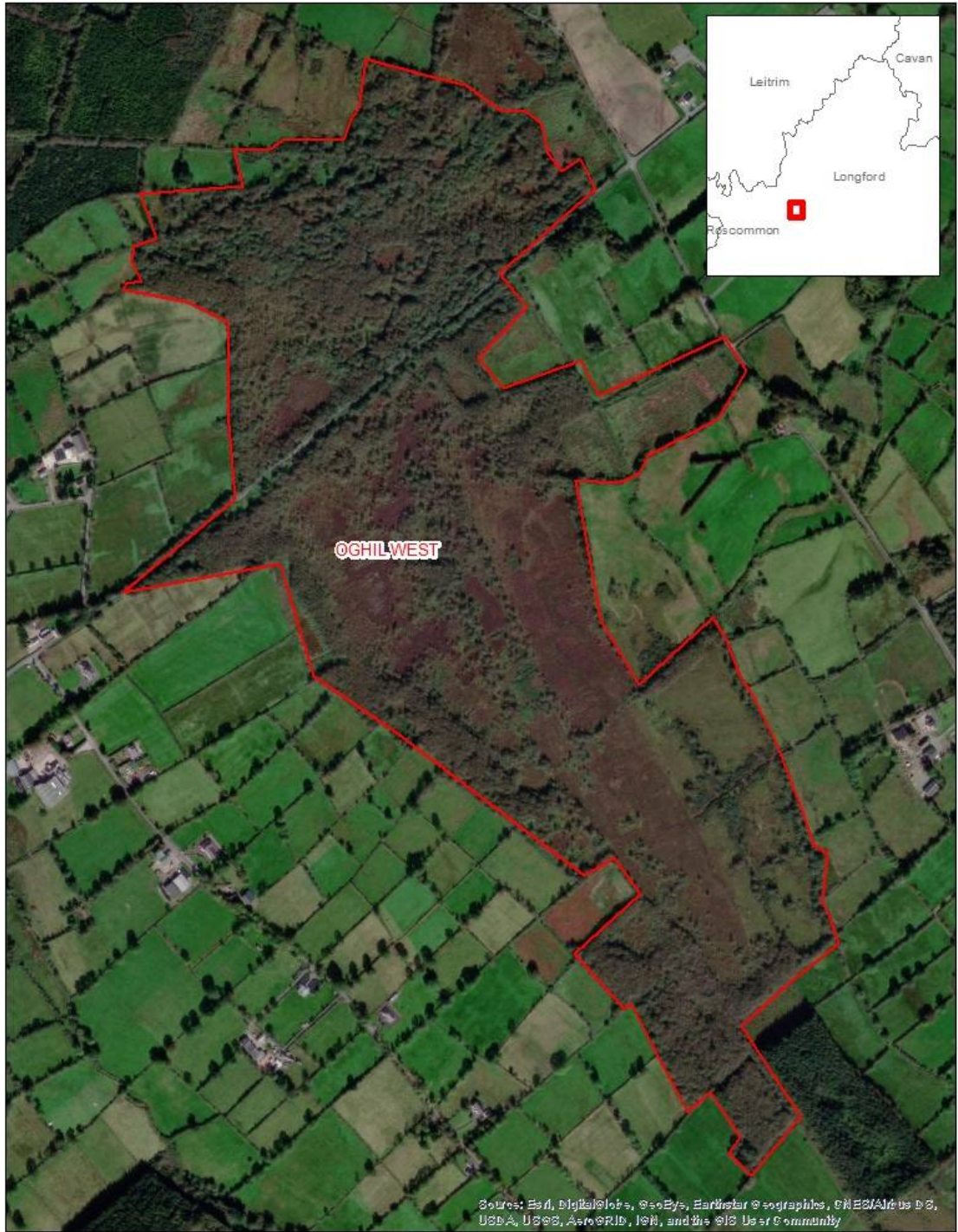
<i>Acer pseudoplatanus</i>	Sycamore
<i>Arrhenatherum elatius</i>	False Oat-grass
<i>Betula pubescens</i>	Downy Birch
<i>Blechnum spicant</i>	Hard-fern
<i>Calluna vulgaris</i>	Ling Heather
<i>Calystegia sepium</i>	Hedge Bindweed
<i>Chamerion angustifolium</i>	Rosebay Willowherb
<i>Dryopteris spp.</i>	Fern
<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Hedera helix</i>	Ivy
<i>Hypnum jutlandicum</i>	Moss
<i>Molinia caerulea</i>	Purple Moor-grass
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Pleurozium schreberi</i>	Red-stemmed feathermoss
<i>Polytrichum commune</i>	Common Haircap Moss
<i>Potentilla erecta</i>	Tormentil
<i>Prunus laurocerasus</i>	Cherry Laurel
<i>Pteridium aquilinum</i>	Bracken
<i>Rubus fruticosus agg.</i>	Blackberry
<i>Rumex obtusifolius</i>	Broad-leaved Dock
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Sphagnum capillifolium</i>	Acute-leaved Bog Moss
<i>Sphagnum palustre</i>	Blunt-leaved Bog Moss
<i>Urtica dioica</i>	Common Nettle
<i>Vaccinium myrtillus</i>	Bilberry

**Fauna on site - English and Latin species name**

Common Frog	<i>Rana temporaria</i>
Green-veined White	<i>Pieris napi</i>
Large White	<i>Pieris brassicae</i>
Small Tortoiseshell	<i>Aglais urticae</i>



Aerial Photograph showing location of the site



 Site boundary

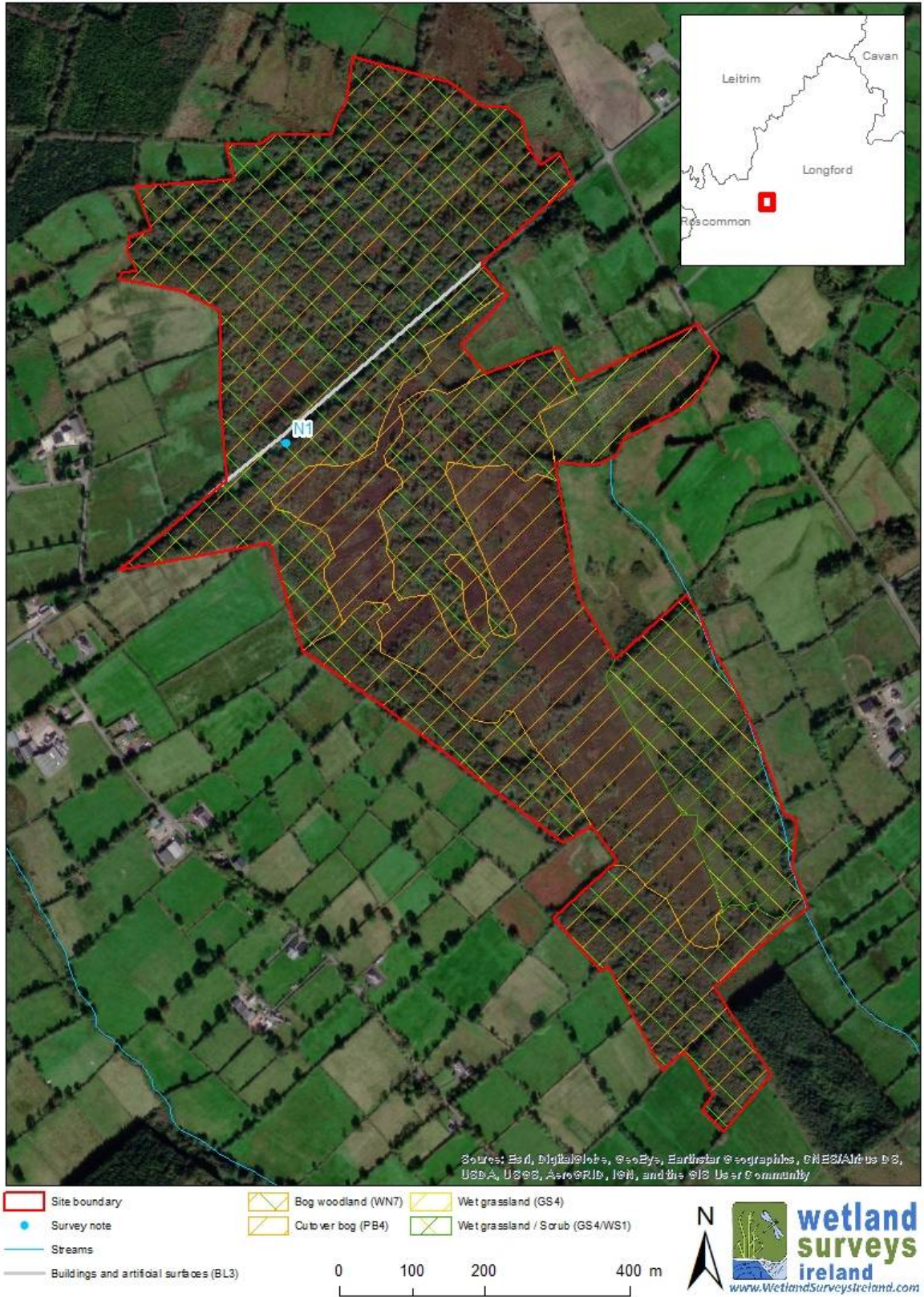
0 100 200 400 m



NPWS NHA site boundary.



GIS Habitat map of the site





**Site Name:** AGHABOY KILLETER CUTOVER**Site Code:** LF151 **Area (ha):** 40.92 **Grid Ref:** 218752 280169 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

16/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

AGHABOY (LONGFORD BY)

**Solid Geology:**

Marine shelf facies

**Subsoil type:**

Cut

**Substrate type:**

Peat

**Substrate stability:**

Firm

**River catchment:**

Shannon Up

**CORINE Habitats:**

Peat bogs

**Site Location**

Former raised bog located 7.5km north east of Longford town.

**Site Description and Wetland Habitats Recorded**

Former raised bog that has been historically cut for fuel. Small remnants of degraded high bog remain. These areas are dominated by dense Ling Heather with Birch seedlings are common. The cutover is regenerating well with a dominance of wet bog vegetation with good sphagnum cover. Birch woodland and scrub occur in the drier margins of the former bog.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
N1	Invasive	Japanese knotweed present on roadside.
N2	Management	Old building rubble. Now recolonising bare ground.
N3	Habitat	PB1-remnant raised bogs area.
N4	Management	Recently planted conifer plantation.

**Management Recommendations following survey**

Remove infilled dumped material. Assess restoration potential of drier cutover areas. Eliminate Japanese Knotweed from the roadside.

**Future Survey Recommendations**

Hydrological survey to determine restoration possibilities.

**Landowner Information Comments**

None. Local authority notices regarding dumping are in place at the site.

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

BL3 Buildings and artificial surfaces  
 ED3 Recolonising bare ground  
 GS2 Dry meadows and grassy verges  
 GS4 Wet grassland  
 PB1 Raised bogs  
 PB4 Cutover bog  
 WN7 Bog woodland  
 WS1 Scrub

**EU Habitats Directive habitats on site**

None noted

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces  
 GA1 Improved agricultural grassland  
 WD4 Conifer plantation  
 WL1 Hedgerows  
 WL2 Treelines  
 WN7 Bog woodland  
 WS1 Scrub

**Landuse / Management Activity****Frequency of use**

None

**Impacting Activity (EU code and title)**

E03.01 disposal of household waste

I01 invasive non-native species

J02.01 Landfill, land reclamation and drying out, general

E03.03 disposal of inert materials

**Intensity**

C = low

C = low

B = medium

B = medium

**Impact**

- 1 = repairable negative influence

- 1 = repairable negative influence

- 1 = repairable negative influence

- 1 = repairable negative influence

**Threats**

E03.01 disposal of household waste

I01 invasive non-native species

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

<i>Agrostis stolonifera</i>	Creeping Bent
<i>Andromeda polifolia</i>	Bog-rosemary
<i>Aulacomnium palustre</i>	Moss
<i>Betula pubescens</i>	Downy Birch
<i>Calluna vulgaris</i>	Ling Heather
<i>Calystegia sepium</i>	Hedge Bindweed
<i>Chamerion angustifolium</i>	Rosebay Willowherb
<i>Cladonia portentosa</i>	Branching Lichen
<i>Drosera rotundifolia</i>	Round-leaved Sundew
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Erica tetralix</i>	Cross-leaved Heath
<i>Eriophorum angustifolium</i>	Common Cottongrass
<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass
<i>Fallopia japonica</i>	Japanese Knotweed
<i>Fraxinus excelsior</i>	Ash
<i>Hedera helix</i>	Ivy
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Juncus effusus</i>	Soft-rush
<i>Molinia caerulea</i>	Purple Moor-grass
<i>Polytrichum commune</i>	Common Haircap Moss
<i>Potentilla erecta</i>	Tormentil
<i>Pteridium aquilinum</i>	Bracken
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Rubus fruticosus agg.</i>	Blackberry
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Senecio jacobaea</i>	Common Ragwort
<i>Sphagnum capillifolium</i>	Acute-leaved Bog Moss
<i>Sphagnum magellanicum</i>	Magellan's Bog Moss
<i>Sphagnum palustre</i>	Blunt-leaved Bog Moss
<i>Trichophorum cespitosum</i>	Deergrass
<i>Urtica dioica</i>	Common Nettle

**Fauna on site - English and Latin species name**

Common Buzzard

*Buteo buteo*

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Fox

*Vulpes vulpes*

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Aerial Photograph showing location of the site



 Site boundary

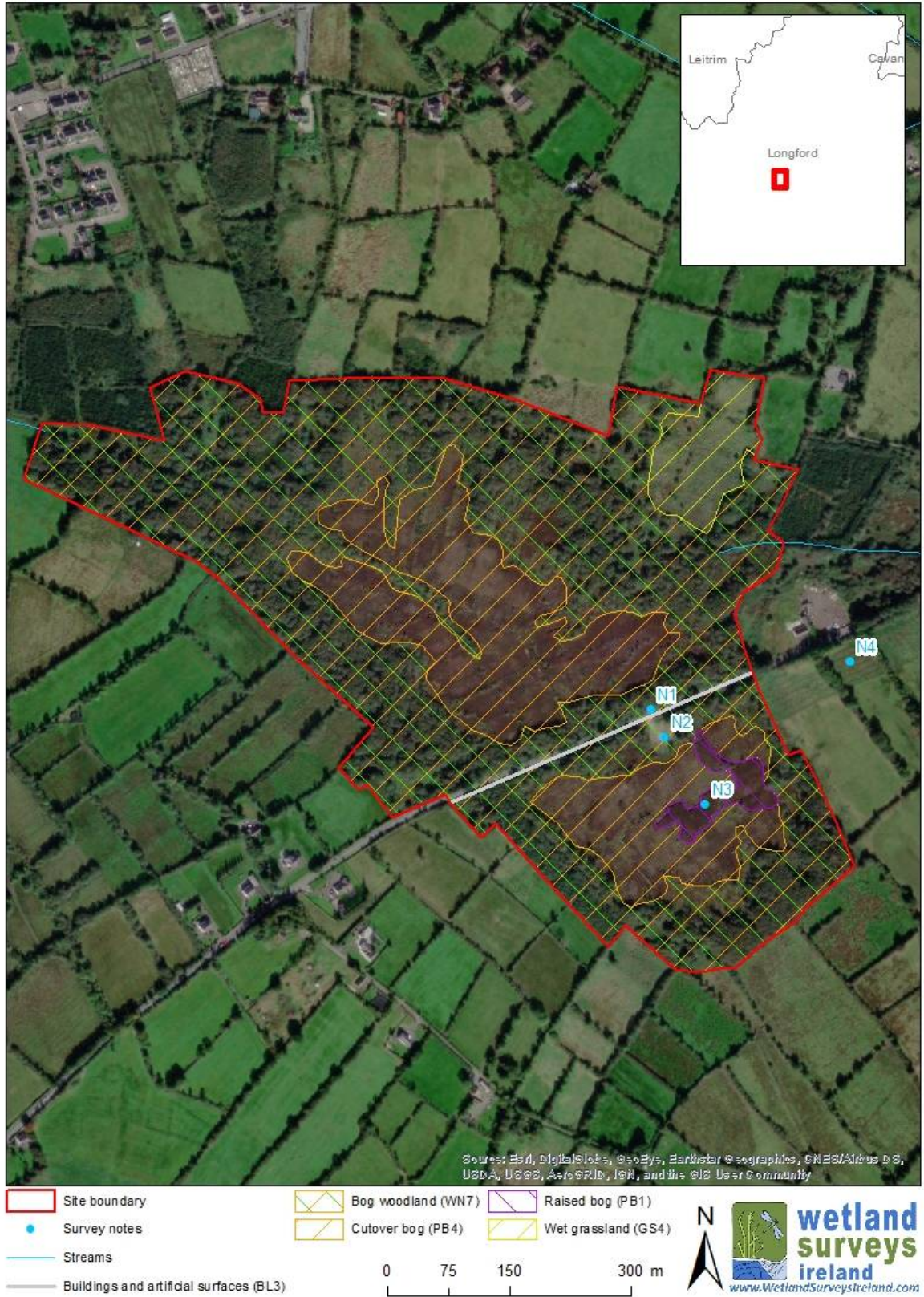
0 75 150 300 m



NPWS NHA site boundary.



GIS Habitat map of the site





**Site Name:** DRUMURE BOG**Site Code:** LF168 **Area (ha):** 23.11 **Grid Ref:** 216285 279696 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

16/08/2021

**Survey Code:**

LFWS 2021

**Site source information:****Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C+ Rating: County Conservation value

**Townland:**

DRUMURE

**Solid Geology:**

Marine shelf facies

**Subsoil type:**

Cut

**Substrate type:**

Peat

**Substrate stability:**

Some quaking

**River catchment:**

Shannon Up

**CORINE Habitats:**

Pastures

**Site Location**

Cutover bog located just west of Kilnatrauhan, County Longford.

**Site Description and Wetland Habitats Recorded**

Extensive area of regenerating cutover. Historically cut for fuel. Central part of site dominated by regenerating wet bog communities with Ling and Purple moorgrass. Open canopy immature birch is frequent together with lodge-pole pine. Bracken and gorse in drier areas. Locally abundant Sphagnum carpets with initial bog woodland establishment. Mature dry birch woodland surrounds the site open regenerating bog.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
N1	General	Recent road built across wetland from south. Provides access to site. Hardcore base, vegetated with GS2, large drains either side.
N2	Invasive	Saracenia purpurea.
N3	Management	This part of the site has been in filled and sheds, storage units constructed. See Google maps for more recent aerial photograph.
N4	Habitat	Good example of bog woodland establishment. Complete cover of sphagnum mosses with Polytrichum and Aulacomnium and open birch canopy.

**Management Recommendations following survey**

Prevent further infilling of wetland.

**Future Survey Recommendations**

Assess potential restoration of drier areas and those parts of the site subject to recent drainage and infilling.

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

Parts of the woodland area on this site may correspond to the EU Annex 1 habitat Bog woodland (91D0).

**Main Fossitt habitats on site**

BL3 Buildings and artificial surfaces  
GS2 Dry meadows and grassy verges  
PB4 Cutover bog  
WN7 Bog woodland

**EU Habitats Directive habitats on site**

91D0 \*Bog woodland

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces  
GA1 Improved agricultural grassland  
GS4 Wet grassland  
WL1 Hedgerows  
WL2 Treelines

**Landuse / Management Activity**

Industrial

**Frequency of use**

2 Occasional (5-20%)

**Impacting Activity (EU code and title)**

J02.01.03 infilling of ditches, dykes, ponds, pools, marshes or pits  
J02.05 Modification of hydrographic functioning, general  
E03.03 disposal of inert materials  
E03.01 disposal of household waste  
J02.01.03 infilling of ditches, dykes, ponds, pools, marshes or pits

**Intensity**

B = medium  
B = medium  
B = medium  
C = low  
B = medium

**Impact**

- 2 = irreparable negative influence  
- 1 = reparable negative influence  
- 2 = irreparable negative influence  
- 1 = reparable negative influence  
- 1 = reparable negative influence



**Threats**

E03.01 disposal of household waste

J02.01.03 infilling of ditches, dykes, ponds, pools, marshes or pits

J02.05 Modification of hydrographic functioning, general

**Damaging Operations Comments**

None

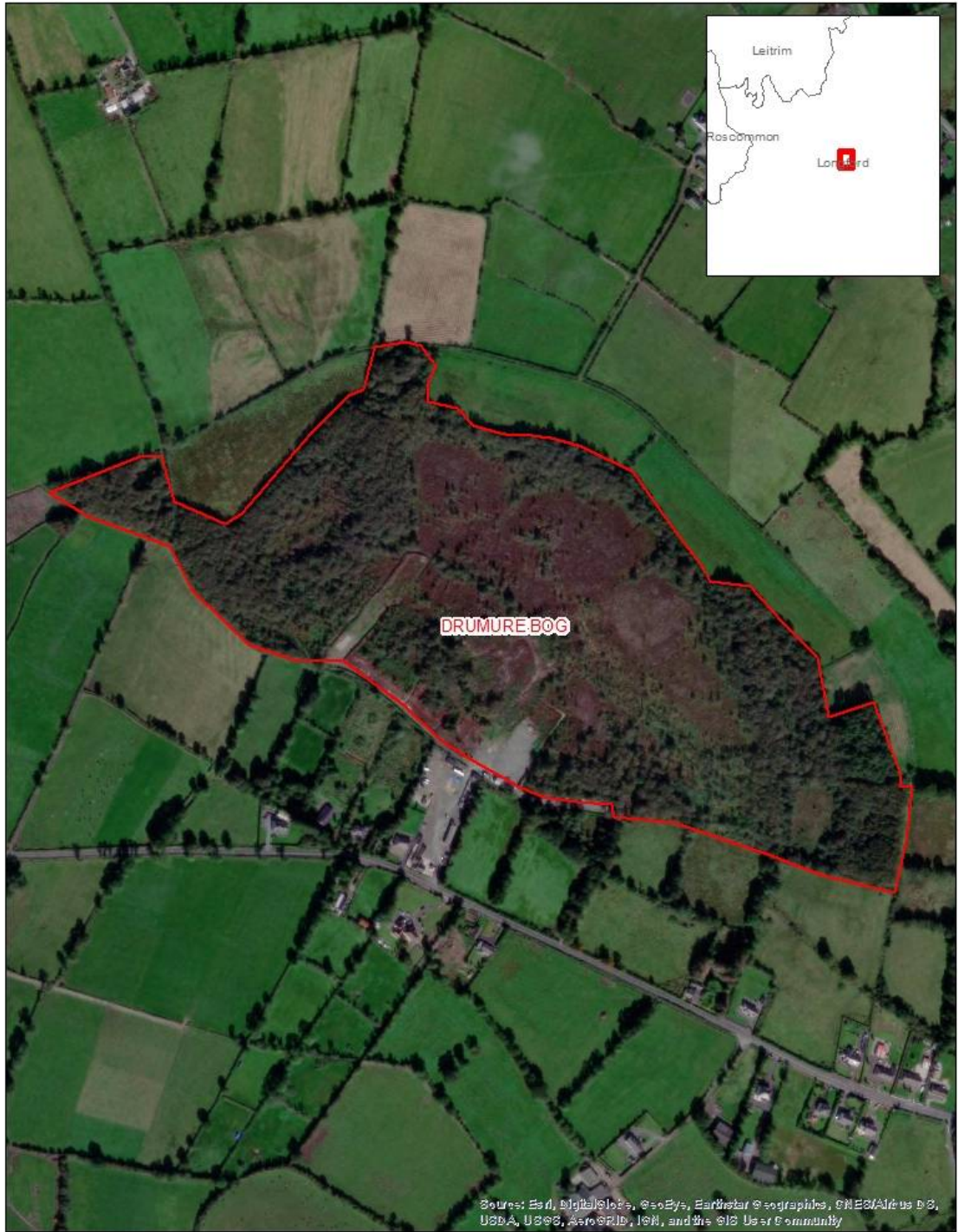
**Flora on site - Latin & English species name**

<i>Agrostis stolonifera</i>	Creeping Bent
<i>Angelica sylvestris</i>	Wild Angelica
<i>Aulacomnium palustre</i>	Moss
<i>Betula pubescens</i>	Downy Birch
<i>Calluna vulgaris</i>	Ling Heather
<i>Centaurea nigra</i>	Common Knapweed
<i>Cirsium palustre</i>	Marsh Thistle
<i>Cladonia portentosa</i>	Branching Lichen
<i>Dactylis glomerata</i>	Cock's-foot
<i>Deschampsia cespitosa</i>	Tufted Hair-grass
<i>Drosera rotundifolia</i>	Round-leaved Sundew
<i>Erica tetralix</i>	Cross-leaved Heath
<i>Eriophorum angustifolium</i>	Common Cottongrass
<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Hypnum jutlandicum</i>	Moss
<i>Juncus effusus</i>	Soft-rush
<i>Molinia caerulea</i>	Purple Moor-grass
<i>Narthecium ossifragum</i>	Bog Asphodel
<i>Pinus contorta</i>	Lodgepole Pine
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Potentilla erecta</i>	Tormentil
<i>Prunella vulgaris</i>	Selfheal
<i>Pteridium aquilinum</i>	Bracken
<i>Rubus fruticosus agg.</i>	Blackberry
<i>Sarracenia purpurea</i>	Pitcherplant
<i>Sphagnum capillifolium</i>	Acute-leaved Bog Moss
<i>Sphagnum cuspidatum</i>	Feathery Bog Moss
<i>Sphagnum magellanicum</i>	Magellan's Bog Moss
<i>Sphagnum palustre</i>	Blunt-leaved Bog Moss
<i>Sphagnum papillosum</i>	Papillose Bog Moss
<i>Succisa pratensis</i>	Devil's-bit Scabious
<i>Trifolium pratense</i>	Red Clover
<i>Ulex europaeus</i>	Gorse

**Fauna on site - English and Latin species name**

Common Frog	<i>Rana temporaria</i>
Swallow	<i>Hirundo rustica</i>

Aerial Photograph showing location of the site



 Site boundary

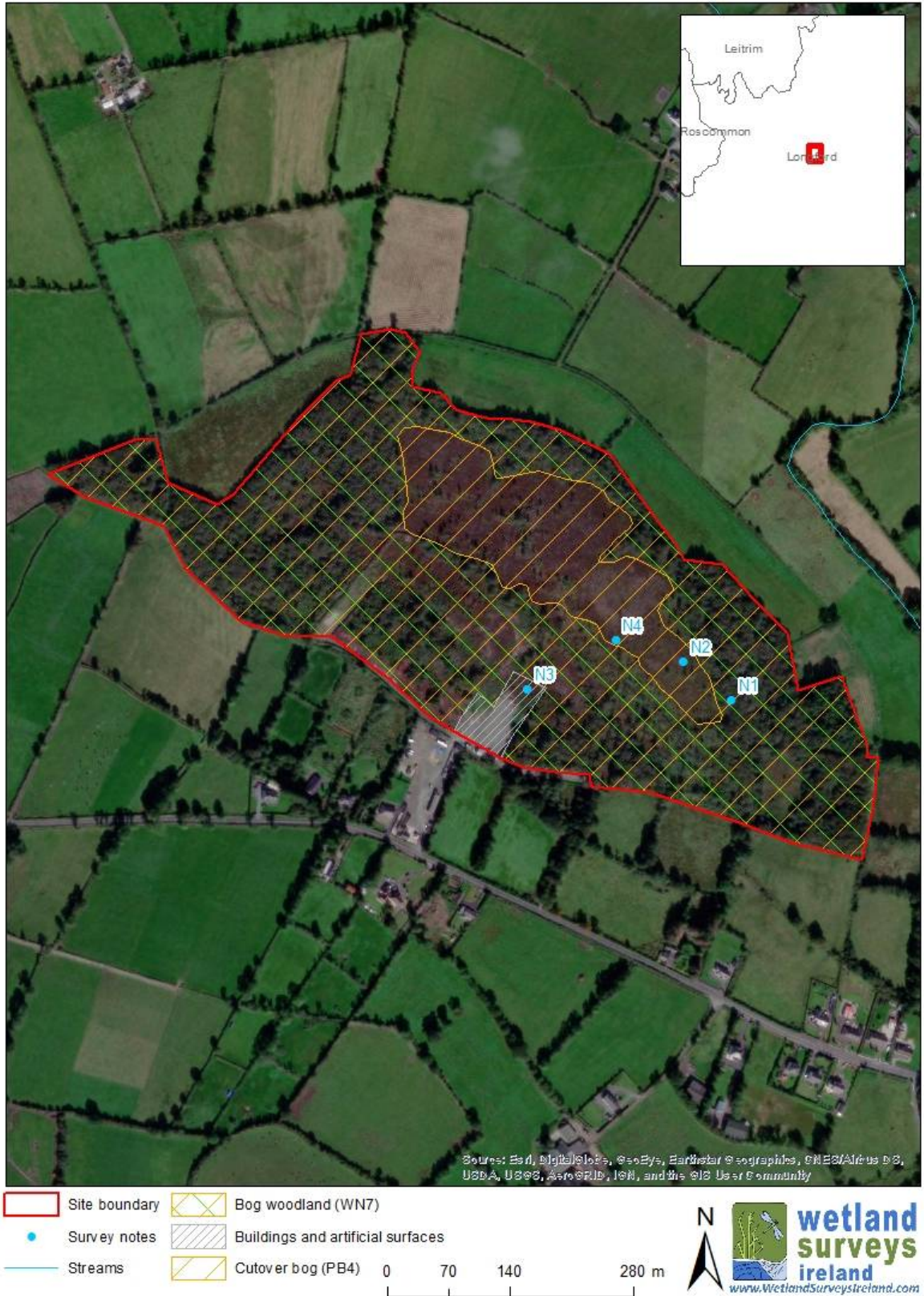
0 70 140 280 m



NPWS NHA site boundary.



GIS Habitat map of the site





**Site Name:** GARVAGH**Site Code:** LF181 **Area (ha):** 16.96 **Grid Ref:** 221189 279201 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

18/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**

Detailed fen survey recommended  
 Detailed Wetland Survey undertaken  
 Site previously mapped in GIS dataset

**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

GARVAGH (GRANARD BY)

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

Cut

**Substrate type:**

Mineral Soil  
 Peat

**Substrate stability:**

Floating mat

**River catchment:**

Shannon Up

**CORINE Habitats:**

Pastures



**Site Location**

Low lying wetland within enclosed depression. Located 2km south west of Ballinalee.

**Site Description and Wetland Habitats Recorded**

Central part of wetland comprises a small area of transition mire with tall herb swamp. Wet willow scrub is also present. The central part of the site is surrounded by good quality species rich wet grassland which is lightly grazed by cattle.

**Target Notes** - (see *Habitat Map for location of Target Notes*)

No.	Category	Comment
N1	Habitat	Small patches of scrub and tall herb swamp within transition mire.

**Management Recommendations following survey**

None

**Future Survey Recommendations**

A detailed fen survey of the site is recommended.

**Landowner Information Comments**

Privately owned agricultural site.

**Description of potential EU Habitats Directive Annex 1 habitats**

This is a good example of 7140 Transition mires and quaking bogs which is a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

FS2 Tall herb swamps

FW4 Drainage ditches

GS4 Wet grassland

PF3 Transition mire & quaking bog

WN Semi-natural woodland

WS1 Scrub

**EU Habitats Directive habitats on site**

7140 Transition mires and quaking bogs

**Fossitt habitats surrounding site**

GA1 Improved agricultural grassland

GS4 Wet grassland

WD4 Conifer plantation

WL1 Hedgerows

**Landuse / Management Activity**

Grazing - cattle

**Frequency of use**

3 Frequent (21-50%)

**Impacting Activity (EU code and title)**

A04.02.01 non intensive cattle grazing

**Intensity**

C = low

**Impact**

0 = neutral

**Threats**

X No threats or pressures

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Agrostis stolonifera*

Creeping Bent

*Alnus glutinosa*

Alder

*Angelica sylvestris*

Wild Angelica

*Anthoxanthum odoratum*

Sweet Vernal-grass

*Calliergonella cuspidata*

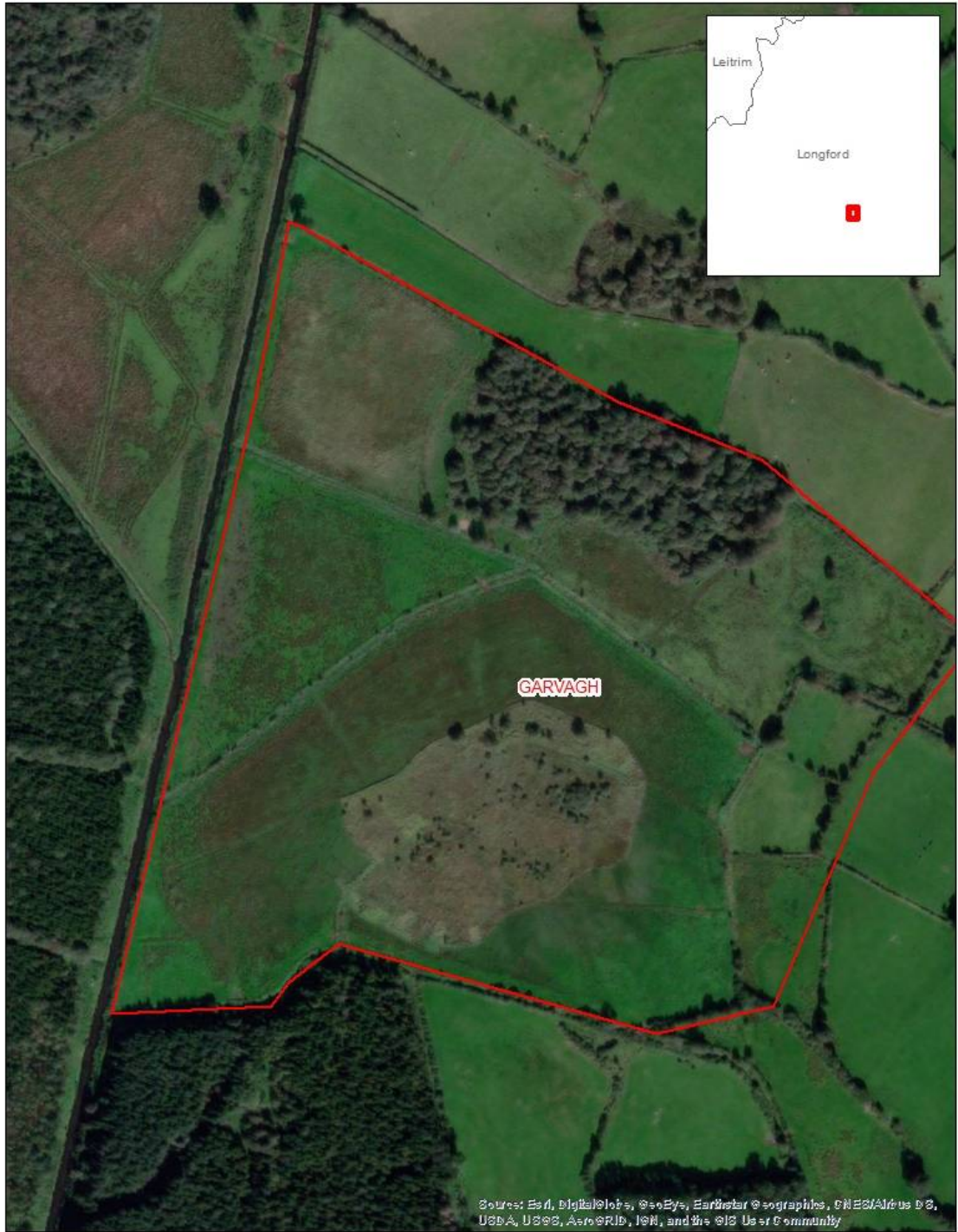
Pointed Spear Moss

<i>Caltha palustris</i>	Marsh-marigold
<i>Carex rostrata</i>	Bottle Sedge
<i>Cirsium dissectum</i>	Meadow Thistle
<i>Cirsium palustre</i>	Marsh Thistle
<i>Comarum palustre</i>	Marsh Cinquefoil
<i>Equisetum fluviatile</i>	Water Horsetail
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Galium palustre</i>	Marsh-bedstraw
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort
<i>Hypochaeris radicata</i>	Cat's-ear
<i>Juncus effusus</i>	Soft-rush
<i>Lythrum salicaria</i>	Purple-loosestrife
<i>Menyanthes trifoliata</i>	Bogbean
<i>Ranunculus flammula</i>	Lesser Spearwort
<i>Rhytiadelphus squarrosus</i>	Moss
<i>Salix aurita</i>	Eared Willow
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Succisa pratensis</i>	Devil's-bit Scabious
<i>Valeriana officinalis</i>	Common Valerian
<i>Viola palustris</i>	Marsh Violet

**Fauna on site - English and Latin species name**

Fox	<i>Vulpes vulpes</i>
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Aerial Photograph showing location of the site



 Site boundary

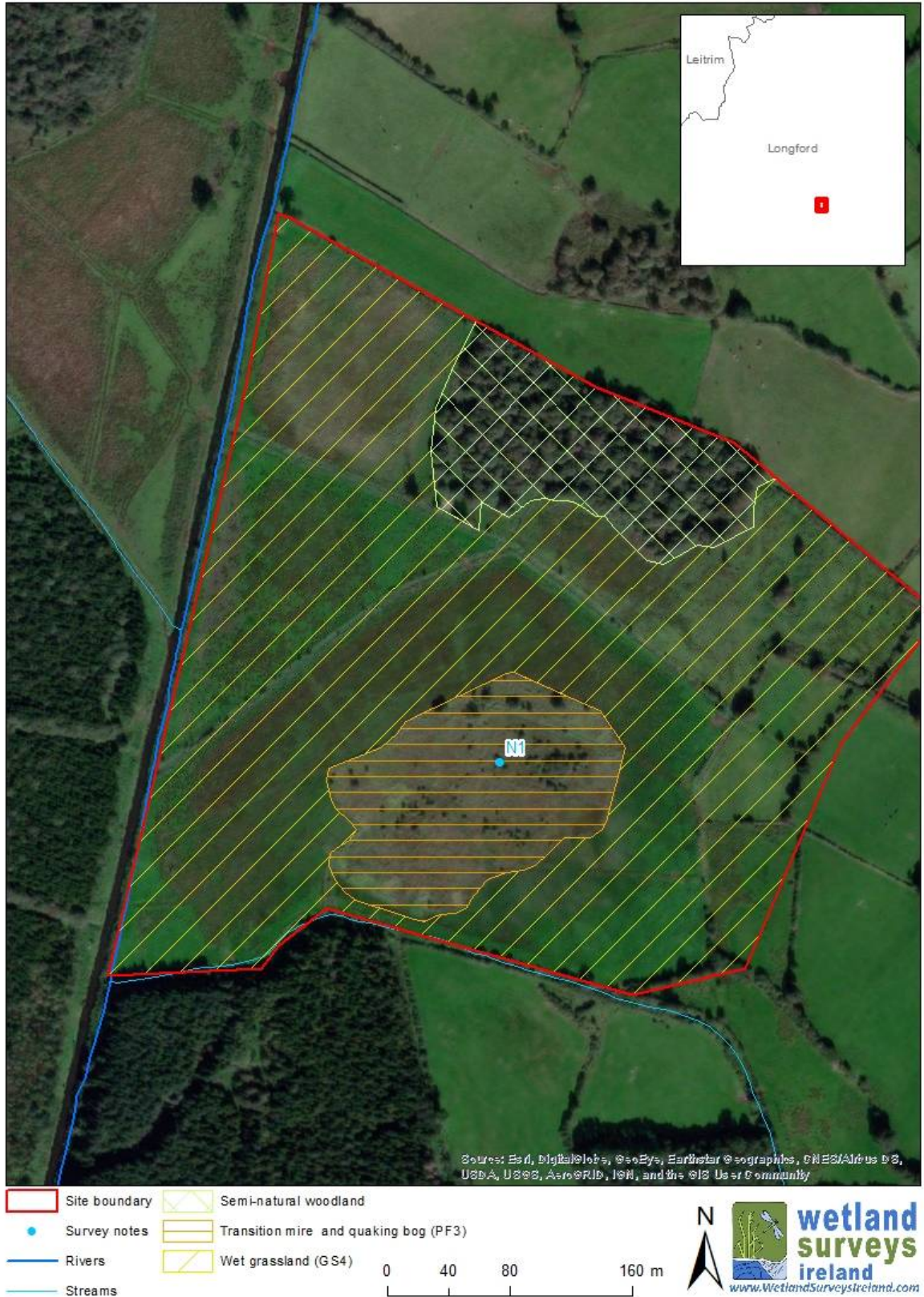
0 40 80 160 m



NPWS NHA site boundary.



GIS Habitat map of the site





**Site Name:** GORTEEN LOUGH cNHA

**Site Code:** LF184    **Area (ha):** 32.04    **Grid Ref:** 222921 279571    **County:** LF



**Site designation(s):**

cNHA

**Surveyed by:**

Patrick Crushell & Joe O’Sullivan

**Date of wetland survey:**

16/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**

Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset

**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C+ Rating: County Conservation value

**Townland:**

ACRES

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

Water

**Substrate type:**

Mineral Soil  
Peat

**Substrate stability:**

Soft Ground

**River catchment:**

Shannon Up

**CORINE Habitats:**

Water bodies

**Site Location**

A mesotrophic lake with well developed band of emergent vegetation and extensive freshwater marsh located 1km south of Ballinalee.

**Site Description and Wetland Habitats Recorded**

Mesotrophic lake with floating macrophytes and band of emergent reed and herb swamp vegetation. Extensive area of species rich marsh and wet grassland surrounds the lake. Excellent successional transition from lake to surrounding agricultural lands. Light grazing occurs.

**Target Notes** - (see *Habitat Map for location of Target Notes*)

No.	Category	Comment
NA	NA	None

**Management Recommendations following survey**

Continue current management regime.

**Future Survey Recommendations**

Dragonfly survey recommended.

**Landowner Information Comments**

None. Access via local GAA pitch and pitch and putt course at eastern side.

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

FL4 Mesotrophic lakes

FS1 Reed and large sedge swamps

FS2 Tall herb swamps

GM1 Marsh

GS4 Wet grassland

WS1 Scrub

**Fossitt habitats surrounding site**

GA1 Improved agricultural grassland

GA2 Amenity grassland (improved)

GS4 Wet grassland

WL1 Hedgerows

WL2 Treelines

**EU Habitats Directive habitats on site**

None noted

**Landuse / Management Activity**

Boating

Fishing

Grazing - cattle

**Frequency of use**

1 Rare (<5%)

**Impacting Activity (EU code and title)**

F02.03 Leisure fishing

**Intensity**

C = low

**Impact**

0 = neutral

**Threats**

X No threats or pressures

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Agrostis stolonifera*

Creeping Bent

<i>Alisma plantago-aquatica</i>	Water-plantain
<i>Berula erecta</i>	Lesser Water-parsnip
<i>Caltha palustris</i>	Marsh-marigold
<i>Carex demissa</i>	Common Yellow-sedge
<i>Carex sp.</i>	Sedge
<i>Comarum palustre</i>	Marsh Cinquefoil
<i>Eleocharis palustris</i>	Common Spike-rush
<i>Equisetum fluviatile</i>	Water Horsetail
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Galium palustre</i>	Marsh-bedstraw
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort
<i>Hypochaeris radicata</i>	Cat's-ear
<i>Juncus articulatus</i>	Jointed Rush
<i>Lemna trisulca</i>	Ivy-leaved Duckweed
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil
<i>Lythrum salicaria</i>	Purple-loosestrife
<i>Mentha aquatica</i>	Water Mint
<i>Menyanthes trifoliata</i>	Bogbean
<i>Myosotis laxa</i>	Tufted forget-me-not
<i>Nuphar lutea</i>	Lesser Water-parsnip
<i>Potentilla anserina</i>	Silverweed
<i>Ranunculus flammula</i>	Lesser Spearwort
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Schoenoplectus lacustris</i>	Common Club-rush

**Fauna on site - English and Latin species name**

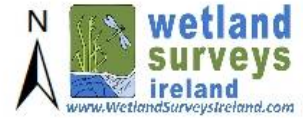
Common Blue Damselfly	<i>Enallagma cyathigerum</i>
Common Frog	<i>Rana temporaria</i>
Coot	<i>Fulica atra</i>
Gull	
Mute Swan	<i>Cygnus olor</i>
Small Tortoiseshell	<i>Aglais urticae</i>

Aerial Photograph showing location of the site



 Site boundary

0 65 130 260 m



NPWS NHA site boundary.



GIS Habitat map of the site



**Site Name:** DRUMMEEL**Site Code:** LF185 **Area (ha):** 35.17 **Grid Ref:** 224904 278317 **County:** LF**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell &amp; Joe O'Sullivan

**Date of wetland survey:**

17/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

DRUMMEEL

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

Cut

**Substrate type:**

Peat

**Substrate stability:**

Firm

**River catchment:**

Shannon Up

**CORINE Habitats:**

Transitional woodland scrub

**Site Location**

Degraded raised bog located 3.2km south east of Ballinalee.

**Site Description and Wetland Habitats Recorded**

Degraded raised bog remnant of high bog surrounded by extensive regenerating cutover. The high bog is dominated by tall Ling heather with low moss cover. Cutover comprises of a mosaic of dry and wet bog communities. Sphagnum dominated communities are locally common in wetter areas. Bracken and gorse occur in drier areas. Active peat cutting on a single turbarry plot. High bog is severely degraded with extensive cracking and slumping.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
NA	NA	None

**Management Recommendations following survey**

Cease peat cutting.

**Future Survey Recommendations**

Assess the restoration potential of the site.

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

FW4 Drainage ditches

PB1 Raised bogs

PB4 Cutover bog

WS1 Scrub

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces

GA1 Improved agricultural grassland

WD4 Conifer plantation

WL1 Hedgerows

**EU Habitats Directive habitats on site**

None noted

**Landuse / Management Activity**

Peat cutting (mechanical)

**Frequency of use**

2 Occasional (5-20%)

**Impacting Activity (EU code and title)**

C01.03.02 mechanical removal of peat

**Intensity**

C = low

**Impact**

- 2 = irreparable negative influence

**Threats**

C01.03.02 mechanical removal of peat

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Andromeda polifolia*

Bog-rosemary

*Aulacomnium palustre*

Moss

*Betula pubescens*

Downy Birch

*Calluna vulgaris*

Ling Heather

*Cladonia floerkeana*

Matchstick Lichen, Devil's matchsticks

*Cladonia portentosa*

Branching Lichen



<i>Drosera rotundifolia</i>	Round-leaved Sundew
<i>Erica tetralix</i>	Cross-leaved Heath
<i>Eriophorum angustifolium</i>	Common Cottongrass
<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass
<i>Hypnum jutlandicum</i>	Moss
<i>Narthecium ossifragum</i>	Bog Asphodel
<i>Pedicularis sylvatica</i>	Lousewort
<i>Polytrichum commune</i>	Common Haircap Moss
<i>Potentilla erecta</i>	Tormentil
<i>Rhynchospora alba</i>	White Beak-sedge
<i>Sphagnum capillifolium</i>	Acute-leaved Bog Moss
<i>Sphagnum cuspidatum</i>	Feathery Bog Moss
<i>Sphagnum magellanicum</i>	Magellan's Bog Moss
<i>Sphagnum palustre</i>	Blunt-leaved Bog Moss
<i>Sphagnum papillosum</i>	Papillose Bog Moss
<i>Sphagnum subnitens</i>	Lustrous Bog Moss
<i>Sphagnum tenellum</i>	Soft Bog Moss
<i>Trichophorum cespitosum</i>	Deergrass
<i>Ulex europaeus</i>	Gorse

**Fauna on site - English and Latin species name**

Common Frog	<i>Rana temporaria</i>
Fox moth	<i>Macrothylacia rubi</i>
Knot Grass Moth	<i>Acronicta rumicis</i>



Aerial Photograph showing location of the site



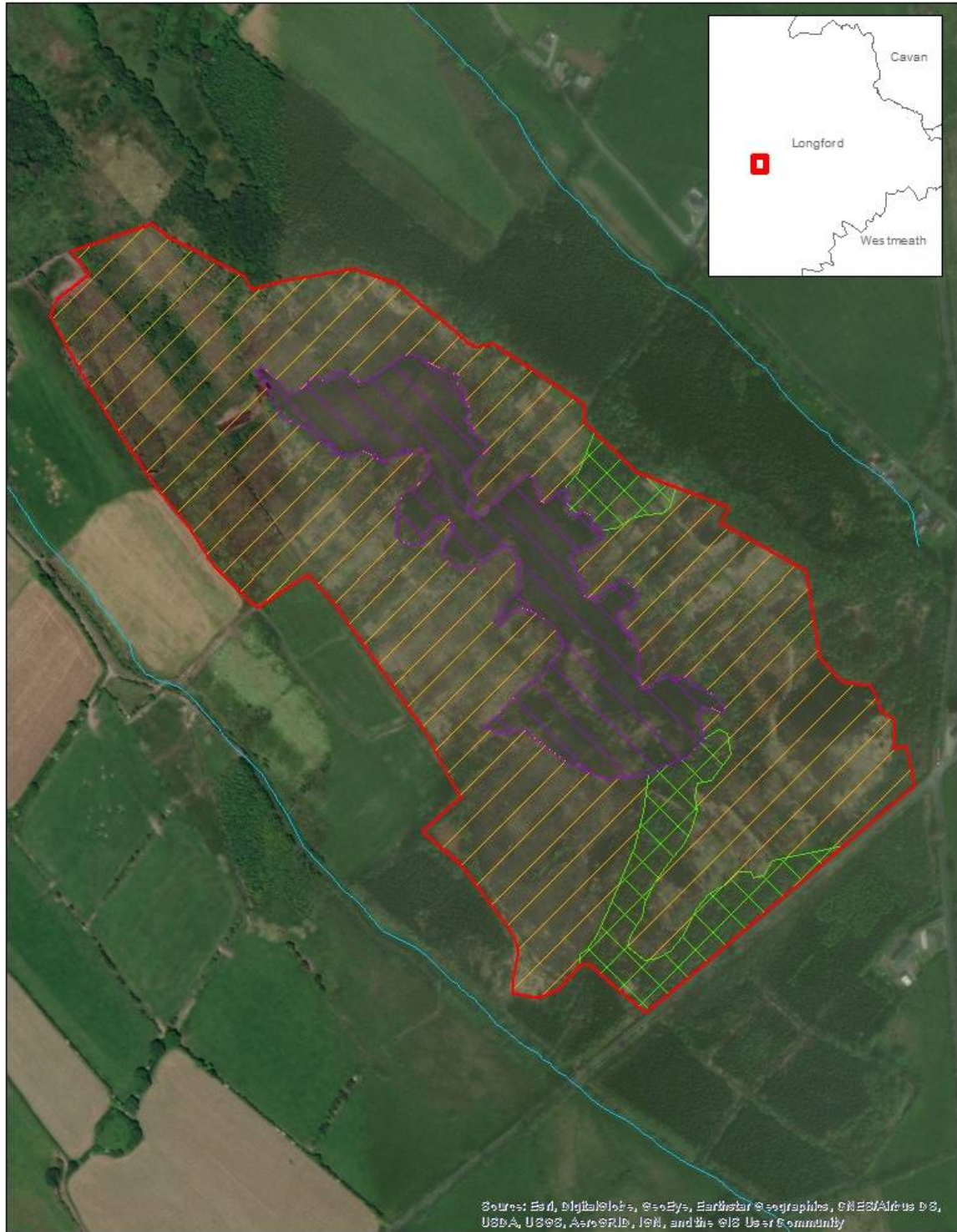
 Site boundary

0 70 140 280 m



NPWS NHA site boundary.

GIS Habitat map of the site



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Site boundary
- Streams
- Cutover bog (PB4)
- Raised bog (PB1)
- Scrub (WS1)





**Site Name:** CARTRON EAST POND

**Site Code:** LF200    **Area (ha):** 5.12    **Grid Ref:** 233273 279357    **County:** LF



**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell & Joe O’Sullivan

**Date of wetland survey:**

17/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**

Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset

**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

CARTRON (GRANARD BY)

**Solid Geology:**

Courseyan limestone

**Subsoil type:**

Cut

**Substrate type:**

Mineral Soil  
Peat

**Substrate stability:**

Some quaking

**River catchment:**

Shannon Up

**CORINE Habitats:**

Pastures

**Site Location**

Site contains a mosaic of wetland habitats with tall herb and reed swamps dominating. Located 1.5km south of Granard.

**Site Description and Wetland Habitats Recorded**

Eastern part of site comprises of Molinia dominated acid bog with *Potentilla erecta* and *Calluna vulgaris*. Further west this grades into tall herb swamp with abundant *Angelica*, Meadowsweet, Valerian and Purple loosestrife. Common reeds dominate the wettest part of the site.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
N1	Management	Large drain dominated by <i>Lemna minor</i> , discharging away from wetland. Largely stagnant, inserted as part of adjacent forestry.
N2	Invasive	Dense stands of Japanese knotweed.

**Management Recommendations following survey**

Assess impact of water abstraction.

**Future Survey Recommendations**

None

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

Areas of tall herb swamp within site may correspond to the EU Annex I habitat 6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels.

**Main Fossitt habitats on site**

FS1 Reed and large sedge swamps  
 FS2 Tall herb swamps  
 GS2 Dry meadows and grassy verges  
 PB4 Cutover bog  
 WS1 Scrub

**EU Habitats Directive habitats on site**

6430 Hydrophilous tall herb fringe communities of

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces  
 GA1 Improved agricultural grassland  
 GS4 Wet grassland  
 WD1 (Mixed) broadleaved woodland  
 WD4 Conifer plantation  
 WL1 Hedgerows

**Landuse / Management Activity****Frequency of use****Impacting Activity (EU code and title)**

B02 Forest and Plantation management & use

**Intensity**

B = medium

**Impact**

- 1 = reparable negative influence

I01 invasive non-native species

C = low

- 1 = reparable negative influence

H01.08 diffuse pollution to surface waters due to household sewage and

D = unknown

Unknown

H01.09 diffuse pollution to surface waters due to other sources not listed

**Threats**

B02 Forest and Plantation management & use

H01.05 diffuse pollution to surface waters due to agricultural and forestry activities

H01.08 diffuse pollution to surface waters due to household sewage and waste waters



I01 invasive non-native species

**Damaging Operations Comments**

None

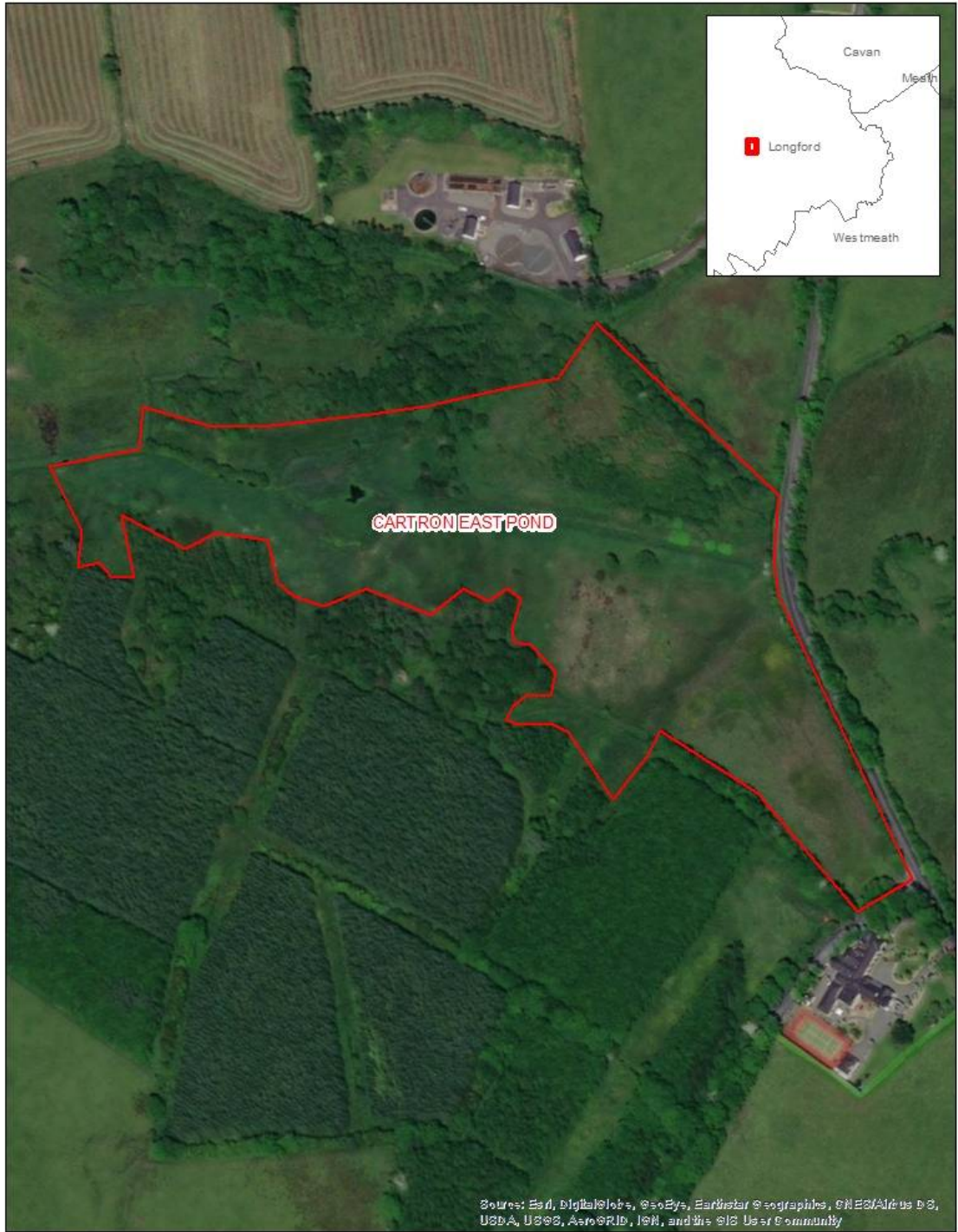
**Flora on site - Latin & English species name**

<i>Alnus glutinosa</i>	Alder
<i>Angelica sylvestris</i>	Wild Angelica
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass
<i>Calluna vulgaris</i>	Ling Heather
<i>Carex paniculata</i>	Greater Tussock-sedge
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Equisetum fluviatile</i>	Water Horsetail
<i>Fallopia japonica</i>	Japanese Knotweed
<i>Filipendula ulmaria</i>	Meadowsweet
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Juncus effusus</i>	Soft-rush
<i>Juncus effusus</i>	Soft-rush
<i>Luzula campestris</i>	Field Wood-rush
<i>Lythrum salicaria</i>	Purple-loosestrife
<i>Molinia caerulea</i>	Purple Moor-grass
<i>Phragmites australis</i>	Common Reed
<i>Potentilla erecta</i>	Tormentil
<i>Rumex acetosa</i>	Common Sorrel
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Sphagnum palustre</i>	Blunt-leaved Bog Moss
<i>Succisa pratensis</i>	Devil's-bit Scabious
<i>Ulex europaeus</i>	Gorse
<i>Valeriana officinalis</i>	Common Valerian

**Fauna on site - English and Latin species name**

Common Buzzard	<i>Buteo buteo</i>
Common Frog	<i>Rana temporaria</i>
Mallard	<i>Anas platyrhynchos</i>
Swallow	<i>Hirundo rustica</i>

Aerial Photograph showing location of the site



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

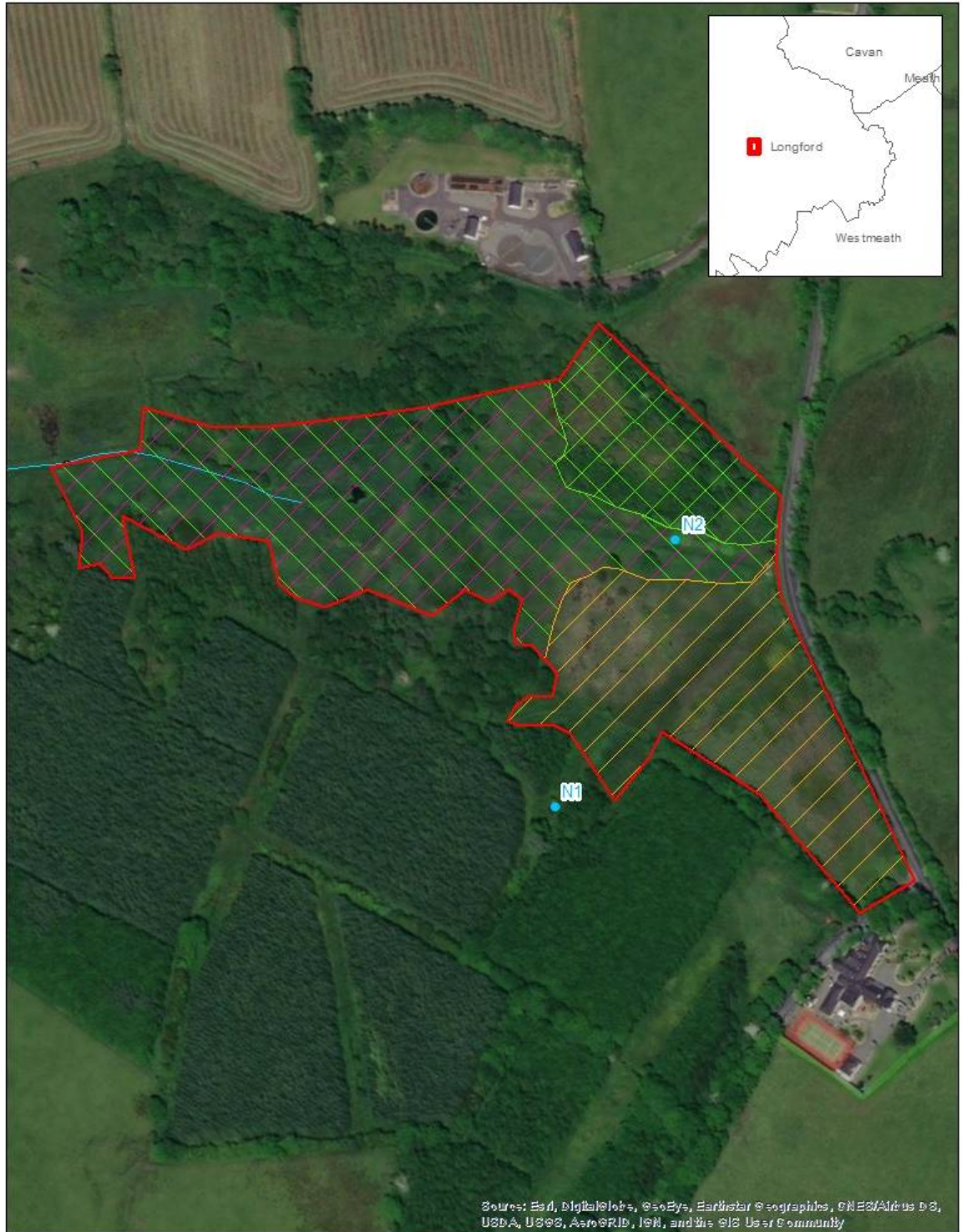
 Site boundary

0 35 70 140 m

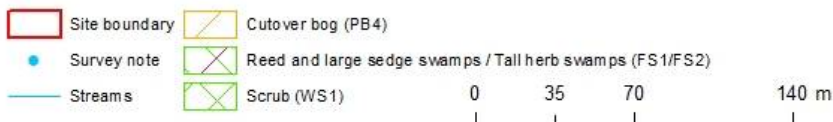


NPWS NHA site boundary.

GIS Habitat map of the site



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





**Site Name:** AGHNASKEA CORNAFUNSHION CUTOVER

**Site Code:** LF263    **Area (ha):** 26.81    **Grid Ref:** 220916 284448    **County:** LF



**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell & Joe O'Sullivan

**Date of wetland survey:**

16/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**

Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset

**Wetland Present on the Site**

No Data - wetland possible

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

CARROWLINAN

**Solid Geology:**

Derryveeny Formation

**Subsoil type:**

Cut

**Substrate type:**

Peat

**Substrate stability:**

Firm

**River catchment:**

Shannon Up

**CORINE Habitats:**

Peat bogs



**Site Location**

Upland site with wet heath and scrub surrounded by mature conifer plantations located 5.6km south east of Drumlish.

**Site Description and Wetland Habitats Recorded**

Former upland heath/bog area that has been subject to past drainage and peat cutting. Forestry dominates the surroundings. Wetland interest on site confined to remnant wet heath dominated by *Calluna vulgaris* with raised moss cushions. Birch and willow scrub common throughout.

**Target Notes** - (see *Habitat Map for location of Target Notes*)

No.	Category	Comment
NA	NA	None

**Management Recommendations following survey**

None

**Future Survey Recommendations**

None

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

GS2 Dry meadows and grassy verges  
 HD1 Dense bracken  
 HH3 Wet heath  
 PB4 Cutover bog  
 WS1 Scrub

**EU Habitats Directive habitats on site**

None noted

**Fossitt habitats surrounding site**

BL3 Buildings and artificial surfaces  
 GA1 Improved agricultural grassland  
 GA2 Amenity grassland (improved)  
 GS4 Wet grassland  
 WD4 Conifer plantation  
 WL1 Hedgerows

**Landuse / Management Activity**

Forestry

**Frequency of use**

3 Frequent (21-50%)

**Impacting Activity (EU code and title)**

B01.01 forest planting on open ground (native trees)  
 E03.01 disposal of household waste

**Intensity**

B = medium  
 C = low

**Impact**

- 2 = irreparable negative influence  
 - 1 = reparable negative influence

**Threats**

B01.02 artificial planting on open ground (non-native trees)  
 B02 Forest and Plantation management & use

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

*Acer pseudoplatanus*

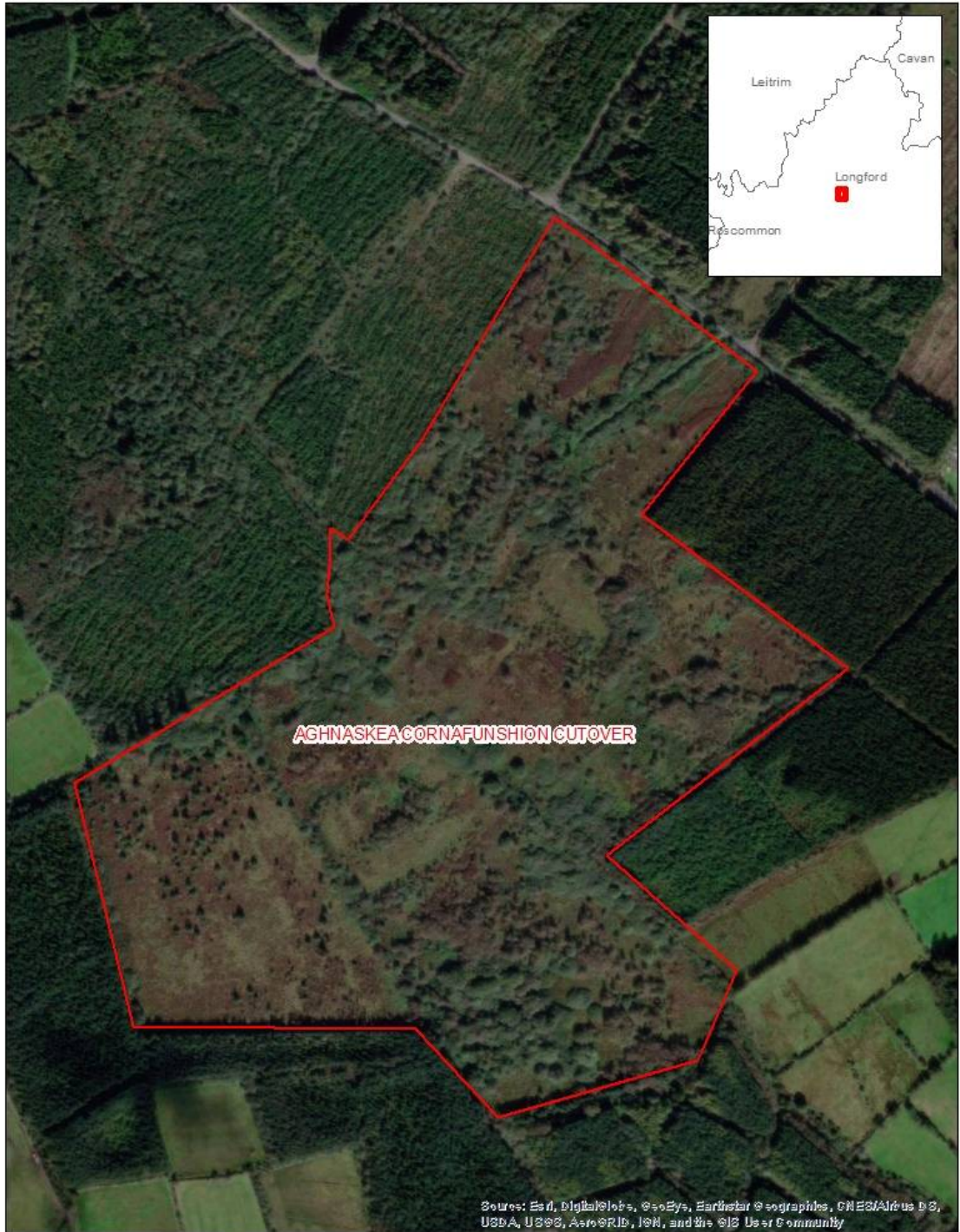
Sycamore

<i>Achillea millefolium</i>	Yarrow
<i>Arrhenatherum elatius</i>	False Oat-grass
<i>Betula pubescens</i>	Downy Birch
<i>Betula pubescens</i>	Downy Birch
<i>Calluna vulgaris</i>	Ling Heather
<i>Chamerion angustifolium</i>	Rosebay Willowherb
<i>Crocsmia × crocosmiiflora</i>	Montbretia
<i>Dactylis glomerata</i>	Cock's-foot
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Equisetum arvense</i>	Field Horsetail
<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass
<i>Fraxinus excelsior</i>	Ash
<i>Galium aparine</i>	Cleavers
<i>Heracleum sphondylium</i>	Hogweed
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Hypnum jutlandicum</i>	Moss
<i>Juncus effusus</i>	Soft-rush
<i>Osmunda regalis</i>	Royal Fern
<i>Picea sitchensis</i>	Sitka Spruce
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Pleurozium schreberi</i>	Red-stemmed feathermoss
<i>Polytrichum commune</i>	Common Haircap Moss
<i>Pteridium aquilinum</i>	Bracken
<i>Pteridium aquilinum</i>	Bracken
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Rhytidiadelphus loreus</i>	Little shaggy-moss
<i>Rubus fruticosus agg.</i>	Blackberry
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Sphagnum capillifolium</i>	Acute-leaved Bog Moss
<i>Symphoricarpos albus</i>	Snowberry
<i>Trifolium pratense</i>	Red Clover
<i>Ulex europaeus</i>	Gorse
<i>Urtica dioica</i>	Common Nettle
<i>Vaccinium myrtillus</i>	Bilberry

**Fauna on site - English and Latin species name**

Chiffchaff	<i>Phylloscopus collybita</i>
Meadow Pipit	<i>Anthus pratensis</i>
Wren	<i>Troglodytes troglodytes</i>

Aerial Photograph showing location of the site



 Site boundary

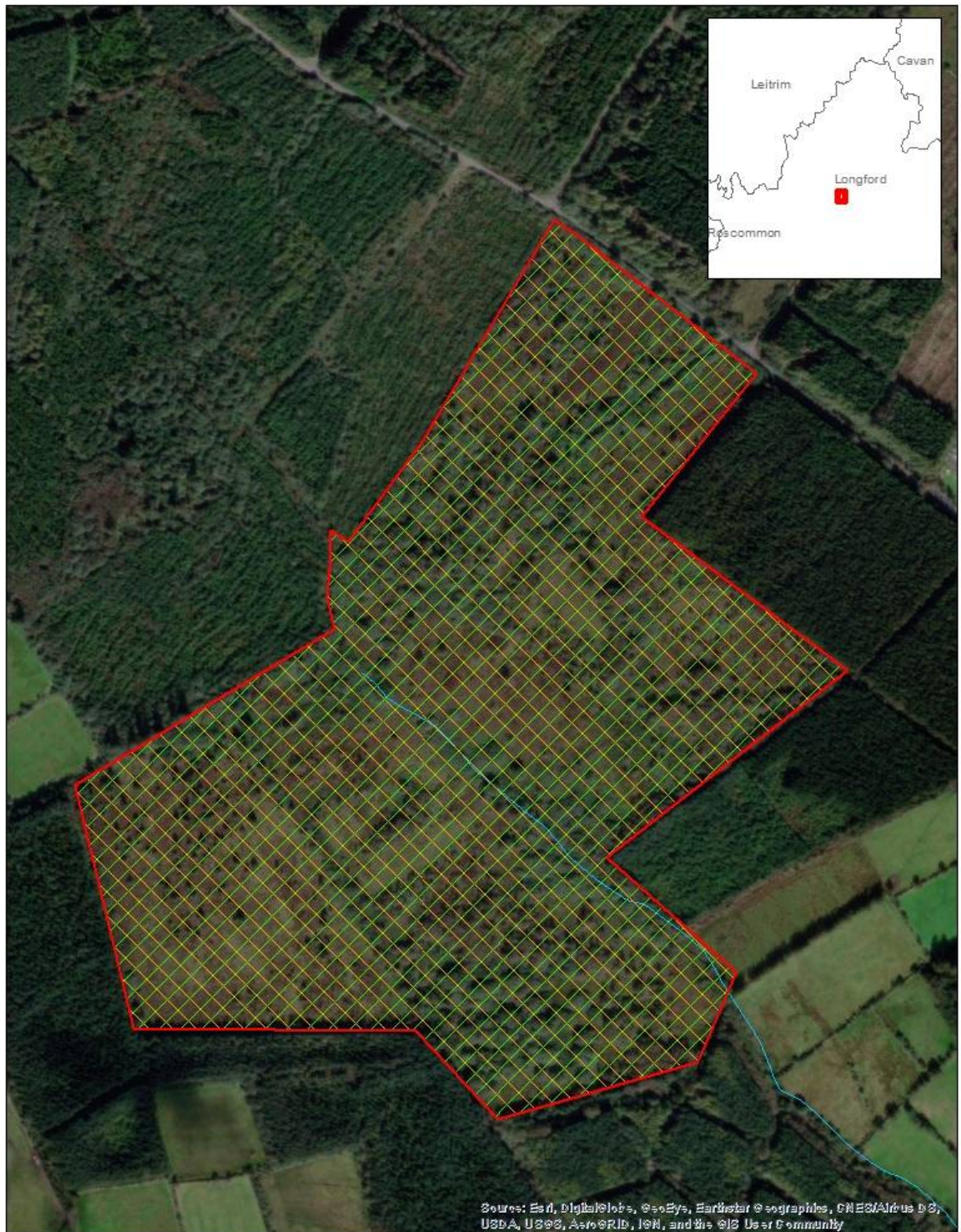
0 60 120 240 m



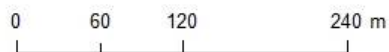
NPWS NHA site boundary.



GIS Habitat map of the site



-  Site boundary
-  Wet heath / Scrub (HH3/WS1)
-  Streams





**Site Name:** BALLYBRIEN PONDS (SOUTH)

**Site Code:** LF282    **Area (ha):** 0.26    **Grid Ref:** 230982 279984    **County:** LF



**Site designation(s):**

Undesignated site

**Surveyed by:**

Patrick Crushell & Joe O’Sullivan

**Date of wetland survey:**

17/08/2021

**Survey Code:**

LFWS 2021

**Site source information:**

Detailed Wetland Survey undertaken  
Site previously mapped in GIS dataset

**Wetland Present on the Site**

YES

**Conservation ranking after survey:**

C Rating: Local conservation value (high value)

**Townland:**

BALLYBRIEN

**Solid Geology:**

Visean basinal limestone "Calp"

**Subsoil type:**

TLPSSs

**Substrate type:**

Peat

**Substrate stability:**

Firm

**River catchment:**

Upper Shannon

**CORINE Habitats:**

Pastures

**Site Location**

Ballybrien Ponds (South) are located 2.5km west of Granard.

**Site Description and Wetland Habitats Recorded**

Small enclosed depression dominated by freshwater marsh. Small area of open water used by cattle for drinking water source. Mineral esker like ridge occurs close by to the south. A channelised river with an extensive Iris marsh occurs to the south of esker ridge.

**Target Notes - (see Habitat Map for location of Target Notes)**

No.	Category	Comment
N1	Habitat	Open water.

**Management Recommendations following survey**

Consider fencing and installation of alternative drinking source.

**Future Survey Recommendations**

None

**Landowner Information Comments**

None

**Description of potential EU Habitats Directive Annex 1 habitats**

It is not thought that any of the habitats present within this site correspond to a habitat listed under Annex I of the EU Habitats Directive.

**Main Fossitt habitats on site**

FL Lakes & Ponds

GM1 Marsh

GS4 Wet grassland

**EU Habitats Directive habitats on site**

None noted

**Fossitt habitats surrounding site**

GA1 Improved agricultural grassland

WL1 Hedgerows

WL2 Treelines

WS1 Scrub

**Landuse / Management Activity**

Grazing - cattle

**Frequency of use****Impacting Activity (EU code and title)**

H01.05 diffuse pollution to surface waters due to agricultural and forestry

A04.02.01 non intensive cattle grazing

**Intensity**

C = low

B = medium

**Impact**

- 1 = reparable negative influence

- 1 = reparable negative influence

**Threats**

A04.02.01 non intensive cattle grazing

H01.05 diffuse pollution to surface waters due to agricultural and forestry activities

**Damaging Operations Comments**

None

**Flora on site - Latin & English species name**

<i>Berula erecta</i>	Lesser Water-parsnip
<i>Bidens cernua</i>	Nodding Bur-marigold
<i>Calliergonella cuspidata</i>	Pointed Spear Moss
<i>Cardamine pratensis</i>	Cuckooflower
<i>Carex rostrata</i>	Bottle Sedge
<i>Epilobium sp.</i>	Willowherb

<i>Equisetum fluviatile</i>	Water Horsetail
<i>Fraxinus excelsior</i>	Ash
<i>Iris pseudacorus</i>	Yellow Iris
<i>Juncus effusus</i>	Soft-rush
<i>Mentha aquatica</i>	Water Mint
<i>Myosotis sp.</i>	Forget-me-not
<i>Persicaria hydropiper</i>	Water-pepper
<i>Ranunculus flammula</i>	Lesser Spearwort
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Rubus fruticosus agg.</i>	Blackberry
<i>Salix cinerea subsp. cinerea</i>	Grey Willow
<i>Sparganium erectum</i>	Branched Bur-reed

**Fauna on site - English and Latin species name**

Common Frog	<i>Rana temporaria</i>
Peacock	<i>Inachis io</i>



**Aerial Photograph showing location of the site**



 Site boundary

0 5 10 20 m



NPWS NHA site boundary.

GIS Habitat map of the site



## County Longford Wetlands Field Survey III 2021

### Data Deliverables Contents

by Patrick Crushell, Mary Catherine Gallagher & Peter Foss

#### Contents:

1. **County Longford Wetlands Field Survey III 2021.** Main survey report and individual site reports prepared by Patrick Crushell, Mary Catherine Gallagher & Peter Foss (In PDF format, requires Adobe Acrobat to view).
2. **Longford Wetland Site Database 2021 Version 4.0; Longford Wetland Survey Database 2021 Version 3.0** (requires Filemaker Pro to view).
3. **Excel tables to accompany the County Longford Wetlands Field Survey III 2021 report**  
  
**LFWS\_Survey\_Database\_Site\_Summary:** Summary information on sites surveyed during the LFWS 2021, including site location, and table with site description and conservation ranking.
4. **GIS Shape files from the County Longford Wetlands Field Survey III 2021.**
  - a. ArcView GIS dataset (Requires ArcView GIS Software)
  - b. MapInfo GIS dataset (Requires MapInfo GIS Software)

**An Action of the County Longford Draft Heritage Plan 2015-2020**