

Rehabilitated cutaway bog areas with high biodiversity value

Since the 1990s, Bord na Móna has been actively carrying out research into rehabilitation of cutaway bogs for the purposes of promoting biodiversity. This has resulted in an extensive network of cutaway bog with a range of established habitats. These cutaway bog areas illustrate how former peat production areas can be rehabilitated with a combination of natural regeneration and targeted rehabilitation to return relatively quickly to species diverse areas.

The network of rehabilitated bog areas to date includes the Lough Boora Discovery Parklands complex of bogs (c.2,500 ha cutaway bog habitats - wetland,

woodland, grassland, heathland, riparian etc.), the Oweninny bog complex (~6,500 ha rehabilitated acidic cutaway with regenerating peat-forming habitats), Ballycon wetland rehabilitated in 2006 (~240 ha, fen and birch woodland habitats) and Lullymore wetland (~250 ha, rich fen and birch woodland habitat).

Further areas added to this network in the period 2010-2015 include Kilberry wetlands, Bunahinly rewetted bog and Derrycashel and Cavemount wetlands. Each of these areas are outlined in the following tables and presented on the accompanying map (pages 40 and 41).

Bord na Móna cutaway bog rehabilitation 2010-2015

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
1	Corlea cutaway - Wetlands Heritage Ireland	LD	Poor fen, scrub, wetland	Wetland creation, amenity	Lease agreement in development with local community	ongoing	16
2	Cavemount	OY	Poor fen, scrub	Fertiliser treatment	Rehabilitation of bare peat areas	2015	47
3	Cavemount	OY	Wetland	Wetland creation, outfall blocking, Overflow management	Hydrological management	2015	9
4	Lullymore	KE	Wetland, poor fen, scrub, woodland	Outfall blocking and maintenance	Wetland enhancement	2015	< 1
5	Clooniff	RN	Wetland	Berm creation, vegetation translocation	Coolumper Reedbed trial	2015	< 1
6	Mountlucas Windfarm	OY	Wetland, poor fen, scrub, grassland	Wetland creation, overflow management, re-profiling, gravel pit rehabilitation	Rehabilitation of windfarm area	2015	26
7	Bruckana Windfarm	TY	Wetland, poor fen	Wetland creation, overflow management	Rehabilitation of windfarm area	2015	14
8	Srahmore	MO	Poor fen, embryonic <i>Sphagnum</i> vegetation	Hydrological management, deep peat re-vegetation, <i>Sphagnum</i> inoculation	Rehabilitation of peat deposition area	2010-2015	34

Bord na Móna cutaway bog rehabilitation 2010-2015

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
9	Lullymore	KE	Wetland, poor fen, scrub, woodland	Wetland creation, drainage re-alignment	Lease agreement with Lullymore Heritage & Discovery Centre; includes 3 ha of broad-leaved woodland on mineral island	2014-2015	17
10	Rathvilla Gravel Pit (Cloncreen)	OY	Grassland, open water, scrub	Re-profiling, retention of important ecological features	Gravel quarry rehabilitation	2014-2015	9
11	Lough Boora Visitor Centre	OY	Building, Amenity	Construction	Building, landscaping	2014	2
12	Derryhinch	OY	Poor fen, scrub	Tree planting, fertiliser application	Buffer zone along motorway	2014	5
4	Lullymore	KE	Poor fen, scrub	Fertiliser treatment	Rehabilitation of bare peat areas	2014	13
13	Mountlucas	OY	Poor fen, scrub	Fertiliser treatment	Rehabilitation of bare peat areas	2014	5
14	Derrycashel	RN	Wetland, poor fen	Berm construction, outfall blocking	Wetland creation	2014	56
15	Cloonrook Bog	OY/KE	Raised bog	Field-drain blocking	Restoration of bog remnant	2014	56
16	Ballivor	WM	Poor fen, <i>Sphagnum</i> -dominated vegetation	Wetland creation, drain-blocking	Old sod peat cutaway; embryonic peat-forming <i>Sphagnum</i> -dominated area	2014	9
17	Kilberry	KE	Wetland, poor fen, scrub	Field-drain blocking, outfall blocking	Wetland creation	2013-2014	38
18	Ballycon	OY	Poor fen, scrub	Fertiliser treatment	Regenerating bare peat headland (former travel path)	2013	7
19	Boora	OY	Heath	Heather seeding	Heather brash trial	2013	<1
18	Ballycon	OY	Heath	Heather seeding	Heather brash trial	2013	<1
20	Erenagh	RN	Wetland, poor fen	Wetland creation, berm construction, hydrological management	Wetland creation	2013	1
21	Drumman	OY	Poor fen	Grass seed nursery crop	Nursery crop trial	2013	1
17	Kilberry	KE	Poor fen, Embryonic peat-forming <i>Sphagnum</i> -dominated vegetation	<i>Sphagnum</i> plot inoculation	Kilberry <i>Sphagnum</i> trial	2012-2013	2
21	Drumman	OY	Poor fen, scrub	Fertiliser treatment	Regenerating bare peat areas	2012	14

Bord na Móna cutaway bog rehabilitation 2010-2015

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
22	Drinagh	OY	Wetland, poor fen	Landscaping, wetland creation, scrub removal	Drinagh breeding wader habitat trial	2010-2011	31
23	Bunahinly	OY	Regenerating raised bog	Field drains blocked	Deep peat cutaway rehab trial	2010	2
24	Kilmacshane	GY	Poor fen	Fertiliser & nursery crop trials	Kilmacshane fertiliser and nursery crop trials	2010	1
21	Drumman	OY	Poor fen, scrub	Fertiliser, lime & nursery crop trials	Drumman fertiliser and nursery crop trials	2010	12
25	Lullybeg	KE	Grassland, poor fen, scrub	Conservation management, scrub control	BCI Management agreement; diverse grassland; Marsh Fritillary site	2010-ongoing	9

Sub-total (rehabilitation 2010-2015)

436

Pre 2009

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
	Lough Boora Discovery Park	OY	Outlined below	Mixed (outlined below)	Developed as a complex of several sites, paths and trackways around Boora (listed below are sub-sites)	1990s -ongoing	Total: 2,257
26	Loch Clochan and wetlands (LBDP)	OY	Lake, wetland, poor fen, grassland, scrub	Lake creation, amenity development, angling, wetland creation	Area developed for local amenity; lease agreement with local fishing club	1990s	45
27	Finnamores Wetlands (LBDP)	OY	Lake, wetland, poor fen, grassland, scrub	Lake creation, amenity development, landscaping, wetland creation	Area developed for local amenity; lease agreement with local fishing club; Rich floral diversity	1990s	37
28	Lough Boora Lakes (LBDP)	OY	Lake, grassland, scrub	Lake creation, landscaping, amenity	Area developed for local amenity, angling	1990s	30
29	Leabeg wetlands (LBDP)	OY	Wetland, poor fen, scrub	Wetland creation, amenity, outfall blocking	Area developed for local amenity, important waterbird area	1990s	70
30	Tumduff wetlands (LBDP)	OY	Wetland, poor fen, scrub	Wetland enhancement, amenity, outfall blocking, managing outflows	Area developed for local amenity; cutaway bog regenerating since 1990s; diverse range of habitats, used by Whooper Swans	1990s	104
31	Drinagh Lake and wetlands (LBDP)	OY	Lake, wetland, scrub	Wetland creation, outfall blocking, managing outflows	Diverse mosaic of dry and wetland habitats important waterbird area	1990s	236

Pre 2009

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
32	Derries wetlands (LBDP)	OY	Wetland, poor fen, scrub	Wetland creation, outfall blocking, managing outflows, amenity	Diverse mosaic of dry and wetland habitats cycle-track	1990s-ongoing	171
33	Turraun (LBDP)	OY	Lake, wetland, woodland, grassland, heath	Wetland creation, outfall blocking, amenity, path maintenance	Diverse mosaic of dry and wetland habitats; diverse flora and fauna, cycle-track development	1990s - ongoing	176
34	Clongawney (LBDP)	OY	Lake, wetland	Lake creation, outfall blocking	Acidic lake; colonising naturally	1990s	44
35	South Boora wetlands (LBDP)	OY	Wetland	Wetland creation, outfall blocking	Developing wetland area	1990s	23
	Various (LBDP)	OY	Conifer plantation, other broad-leaved plantation,	Conifer & broad-leaved plantation on cutaway, amenity	Plantations associated with LBDP	1980 - 1990s - ongoing	772
36	Sculpture Park & Amenity trails (LBDP)	OY	Amenity, cultural	Landscaping	Sculpture Park; cycle-track development	1990s-ongoing	53
37	Blackwater	OY	Wetland	Wetland creation, berm construction, drain-blocking	Important waterbird area	1990s	24
38	Blackwater	OY	Lake, wetland, grassland	Lake creation, amenity	Area developed for local amenity	1990s	15
39	Doire Bhile	TP	Lake, wetland, poor fen, grassland, scrub	Lake creation, amenity development, angling lake, walkway, wetland creation	Lease agreement with local community; Marsh Fritillary site	1990s	42
40	Derryounce	OY	Lake, wetland, poor fen, scrub, embryonic peat-forming <i>Sphagnum</i> vegetation	Lake creation, wetland creation, angling lake, walkway	Lease agreement with local community; Managed as fishery	1990s - ongoing	32
1	Corlea Trackway Visitor Centre	LD	Degraded raised and cutover bog	Bunding of bog remnant, lagoon creation, amenity	Managed as part of preservation of wooden track-way at Corlea Centre	1990s	16
41	Clonfinlough (Blackwater)	OY	Wetland, rich fen, scrub	Wetland creation, berm construction, drain blocking	Adjacent to Finlough SAC area	1990s	33
42	Lismanny	GY	Raised bog	Amenity	Lease agreement with local community; boardwalk; local BnM biodiversity area	1990s	15
43	Killaun	OY	Cutover bog, fen, woodland	Amenity	Lease agreement with local community; boardwalk; local BnM biodiversity area	1990s	8

Pre 2009

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
44	Oweninny	MO	Acidic wetland, poor fen, embryonic peat-forming vegetation	Mixed	Mixed use; Bellacorick windfarm	2001 - 2003	6,500
45	O'Boyle's Bog	MO	Blanket bog	Deep-peat drain blocking	Regenerating blanket bog adjoining Knockmoyle-Sheskin Nature Reserve	2003	350
9	Lullymore	OY	Wetland, poor fen, scrub, woodland	Wetland enhancement, outfall blocking	Regenerating cutaway bog, <i>Cladium</i> fen development	2006	70
46	Ballycon wetlands	OY	Wetland, poor fen, scrub	Wetland enhancement, berm construction, drain blocking, outfall management	Important waterbird site; site utilised by Whooper Swans	2006	226
47	Turraun	OY	Woodland	Tree planting (Oak & Scot's Pine)	Native Woodland Scheme	2008	5
48	Clongawney	OY	Woodland	Tree planting (Oak & Scot's Pine)	Native Woodland Scheme	2008	5
49	Derraghan woodland	LD	Birch woodland	Naturally developing cutaway woodland	Local biodiversity area	/	84
Sub-total (pre-2009)							9,682

Woodland remnants zoned for biodiversity

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
50	Derries woodlands, Clongawney Bog	OY	Oak-Ash-Hazel woodland	Mature woodland	Mature woodland on glacial mounds surrounded by cutaway; local biodiversity area	/	6
51	Derrylesk Island woodland - Mountlucas Bog	OY	Oak-Ash-Hazel woodland	Naturally developing woodland	Mineral island surrounded by cutaway bog; local biodiversity area	/	19
52	Derrynabroune Island	TY	Oak-Ash-Hazel woodland	Naturally developing woodland	Mineral island surrounded by cutaway bog; local biodiversity area; archaeological site	/	3
53	Derryarogue Island	LD	Calcareous grassland, scrub, woodland	Naturally developing woodland	Mineral island surrounded by cutaway bog; local biodiversity area	/	12
Sub-total (woodland remnants)							40

Raised bog remnants zoned for biodiversity

	Bog Name	County	Target Habitats	Rehabilitation/ Management	Comments	Year	Area ha
54	Cloneragh Bog	LS	Raised bog remnant	/	Undeveloped raised bog remnant; breeding Curlew site	/	43
55	Derryhogan Bog	TY	Raised bog remnant, peat-forming <i>Sphagnum</i> -dominated vegetation	/	Breeding Curlew site; local biodiversity area	/	75
56	Cloncannon Bog Remnant (Ticknevin)	OY	Raised bog	/	Undeveloped raised bog remnant; local biodiversity area	/	40
57	Clonavoe Bog Remnant (Clonsast Bulge)	OY	Raised bog	/	Undeveloped raised bog remnant; local biodiversity area	/	61
58	Bracklin Bog Remnant	WH	Raised bog	/	Undeveloped raised bog remnant; local biodiversity area	/	19
Sub-total (raised bog remnants zoned for biodiversity)							238

Designated for nature conservation

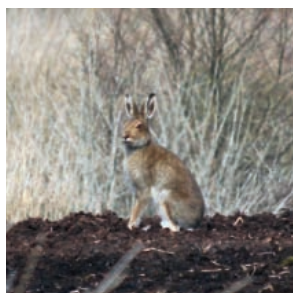
	Overlap with other SAC, SPA, NHA sites		Various	No management	Overlap along rivers, bogs, canal etc.	/	821
Sub-total (designated for nature conservation)							821

Forestry development on cutaway (commercial stands and trials)

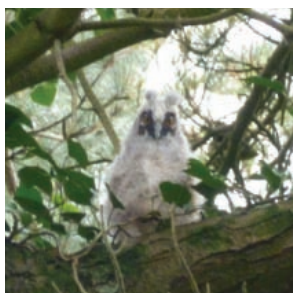
	Conifer plantation			Tree-planting, forestry development	Leased to Coillte, other conifer plantation	/	3,269
	Other forestry plantation			Tree-planting, forestry development	Biomass trials, BOGFOR trials	/	139
Sub-total (forestry)							3,408

Overall Total

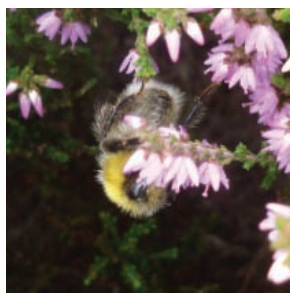
14,625



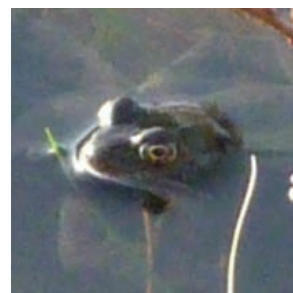
Irish Hare



Long-eared Owl chick



Bumble Bee on Heather



Common Frog