

Site Name: Kilcarren-Firville Bog SAC 647
County: Roscommon

Site Specific Conservation Objective (SSCO) Ecological Attributes

7110 Active raised bogs*

- 1 Habitat Area
- 2 Habitat Distribution
- 3 High Bog Area
- 4.1 Hydrological regime - water levels
- 4.2 Hydrological regime - flow patterns
- 5 Transitional areas between high bog and adjacent mineral soils (including cutover areas)
- 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland
- 6.2 Vegetation quality: microtopographical features
- 6.3 Vegetation quality: bog moss (Sphagnum) species
- 7.1 Typical ARB species: flora
- 7.2 Typical ARB species: fauna
- 8 Elements of local distinctiveness
- 9 Negative physical indicators
- 10.1 Vegetation composition: native negative indicator species
- 10.2 Vegetation composition: non-native invasive species
- 11 Air quality: nitrogen deposition
- 12 Water quality

Site Specific Conservation Objective (SSCO) Ecological Attributes

7120	The long-term aim for Degraded raised bogs still capable of natural regeneration is that its peat-forming capability is re-established; therefore, the conservation objective for this habitat is inherently linked to that of Active raised bogs (7110) and a separate conservation objective has not been set in Kilcarren-Firville Bog SAC 000647.
7150	Depressions on peat substrates of the Rhynchosporion is an integral part of good quality Active raised bogs (7110) and thus a separate conservation objective has not been set for the habitat in Kilcarren-Firville Bog SAC 000647.

Kilcarren-Firville Bog SAC 000647

Habitat: Active Raised Bog [7110]

Site Specific Conservation Objectives (SSCO): To restore the favourable conservation condition of Active raised bogs in Kilcarren-Firville Bog SAC 000647

No.	Ecological Requirements (Attributes as per SSCO)	Pressure /Threat (EU Code 2025)	Pressure/ Threat Ranking	EU Conservation Measure Type (EU Code 2019-2024)	Measure Category	Conservation Measure	Delivery mechanism	Public Authority with statutory responsibility	Implementation timeframe	Integration with high level plans/policy:
1	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Statutory	Regulation controlling development including associated drainage.	S.I. NO. 600/2001 - Planning and Development Regulations 2001, as amended	Local Authority (Roscommon County Council)/An Coimisiún Pleanála.	2001+	All government plans and policy documents are cognisant of these protections.
2	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Statutory	Consent required for works on, or alterations to the banks, bed or flow of a drain watercourse or waterbody, if not covered by other regulations.	European Union Habitats (Kilcarren - Firville Bog Special Area of Conservation 000647) Regulations 2021	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1997+	All government plans and policy documents are cognisant of these protections.
3	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Statutory	Consent required for drainage works including digging, deepening, widening or blocking a drain, watercourse or waterbody) if not covered by other regulations.	European Union Habitats (Kilcarren - Firville Bog Special Area of Conservation 000647) Regulations 2021	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1997+	All government plans and policy documents are cognisant of these protections.
4	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MA13 Manage agricultural drainage and water abstraction (incl. the restoration of drained or hydrologically altered habitats).	Statutory	Consent required for new land drainage and irrigation works on lands used for agriculture.	S.I.No. 456/2011 EC EIA (Agriculture) Regs. 2011, as amended	Department of Agriculture, Food and the Marine (DAFM).	2011+	All government plans and policy documents are cognisant of these protections.
5	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: nonnative invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Administrative	Production of a Drainage Management Plan for this SAC site.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2023	National Raised Bog SAC Management Plan 2017-2022.
6	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Contractual	Construction of dams (1250) as per the SAC Restoration Plan.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2026+	National Raised Bog SAC Management Plan 2017-2022.
7	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Contractual	Construction of bunds ((9.3km) as per the SAC Restoration Plan.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2026+	National Raised Bog SAC Management Plan 2017-2022.
8	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PL02 Drainage (mixed or unknown drivers)	High	MF08 Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).	Contractual	Blocking of drains (32.6km) as per the SAC Restoration Plan.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2026+	National Raised Bog SAC Management Plan 2017-2022.

Kilcarren-Firville Bog SAC 000647

Habitat: Active Raised Bog [7110]

Site Specific Conservation Objectives (SSCO): To restore the favourable conservation condition of Active raised bogs in Kilcarren-Firville Bog SAC 000647

No.	Ecological Requirements (Attributes as per SSCO)	Pressure /Threat (EU Code 2025)	Pressure/ Threat Ranking	EU Conservation Measure Type (EU Code 2019-2024)	Measure Category	Conservation Measure	Delivery mechanism	Public Authority with statutory responsibility	Implementation timeframe	Integration with high level plans/policy:
9	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PC05 Peat Extraction	Low	MC01 Adap/manage extraction of non-energy resources	Statutory	Consent required for all activities relating to turf cutting and/or peat extraction if not covered by other regulations.	European Union Habitats (Kilcarren - Firville Bog Special Area of Conservation 000647) Regulations 2021	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1997+	National Raised Bog SAC Management Plan 2017-2022
10	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PC05 Peat Extraction	Low	MC01 Adap/manage extraction of non-energy resources	Contractual/Administrative	The voluntary bog purchase scheme was established to facilitate the purchase of bog land/turbary rights. 142 Acres of Freehold purchased in 11 transactions.	Voluntary Bog Purchase Scheme	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1999-2010	National Peatlands Strategy
11	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PC05 Peat Extraction	Low	MK03 Restoring freshwater, wetlands and coastal habitats impacted by multi-purpose hydrological modifications.	Contractual/Administrative	The Peatlands and Natura Community Engagement Scheme encourage communities, local organisations and other parties to become involved in the enhancement of the SAC site and raise awareness.	Peatlands and Natura Community Engagement Scheme	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2018+	National Peatlands Strategy
12	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PC05 Peat Extraction	Low	MC01 Adap/manage extraction of non-energy resources	Contractual/Administrative	Cessation of Turf Cutting compensation Scheme (CTCCS) to incentivise the cessation of peat extraction activity within raised bog SAC's. There is currently no peat extraction at this site and 6 people availed of the scheme.	Turf Cutting Compensation Scheme	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2011+	National Peatlands Strategy
13	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PC05 Peat Extraction	Low	MK03 Restoring freshwater, wetlands and coastal habitats impacted by multi-purpose hydrological modifications.	Contractual/Administrative	The Protected Raised Bog Restoration Incentive Scheme facilitates the restoration of lands within the SAC.	The Protected Raised Bog Restoration Incentive Scheme	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2021+	National Raised Bog SAC Management Plan 2017-2022
14	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PB01 Conversion to forest from other land uses, or afforestation (excluding drainage)	Medium	MB01 Prevent conversion of (semi-) natural habitats into forests and of (semi-) natural forests into intensive forest plantation	Statutory	Consent for the planting of trees or multi-annual bioenergy crops if not covered by the Forestry Regulations.	European Union Habitats (Kilcarren - Firville Bog Special Area of Conservation 000647) Regulations 2021	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1997+	All government plans and policy documents are cognisant of these protections.
15	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PB01 Conversion to forest from other land uses, or afforestation (excluding drainage)	Medium	MB01 Prevent conversion of (semi-) natural habitats into forests and of (semi-) natural forests into intensive forest plantation	Statutory	Locations and land types of afforestation projects are limited e.g. Forestry constrained to soils with peat depth of 30cm or less.	Licensing procedure via Forestry Regulations 2017 (S.I. No. 191 of 2017), as amended.	Department of Agriculture, Food and the Marine (DAFM)/Forest Service.	2017+	All government plans and policy documents are cognisant of these protections.
16	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 12 Water quality	PB01 Conversion to forest from other land uses, or afforestation (excluding drainage)	Medium	MB01 Prevent conversion of (semi-) natural habitats into forests and of (semi-) natural forests into intensive forest plantation	Contractual	Removal of forestry plantation (18.1 ha) as per the SAC Restoration Plan.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2026+	National Raised Bog SAC Management Plan 2017-2022

Kilcarren-Firville Bog SAC 000647

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No.	Ecological Requirements (Attributes as per SSCO)	Pressure /Threat (EU Code 2025)	Pressure/ Threat Ranking	EU Conservation Measure Type (EU Code 2019-2024)	Measure Category	Conservation Measure	Delivery mechanism	Public Authority with statutory responsibility	Implementation timeframe	Integration with high level plans/policy:
17	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MA - Measures related to agricultural practices and agriculture-related habitats	Administrative	Monitoring and reporting of relevant farm activity at the SAC. Direct inspections for DAFM Conditionality compliance or via other state Authorities (via Cross Reporting) to Integrated Controls Division in DAFM.	DAFM BISS Conditionality Farm inspections - NPWS Conservation Ranger Site monitoring, (Cross Compliance)	Department of Agriculture, Food and the Marine (DAFM).	2023+	CAP Strategic Plan
18	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MJ01 Implement climate change mitigation measures	Administrative	A roadmap of actions to assist in the achievement of climate change objectives by no later than the end of the year 2050	Irelands Climate Action Plan 2024	All Government Departments	2024+	Climate Action and Low Carbon Development (Amendment) Act 2021
19	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MK03 Restoring freshwater, wetlands and coastal habitats impacted by multi-purpose hydrological modifications.	Administrative	Public relations and information dissemination by authorised officers to stakeholders.	NPWS Conservation Ranger network and Regional Management appointed as Authorised Officers under EC Birds and Natural Habitats Regs. 2011, as amended.	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2011+	S.I. No. 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011.
20	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MC02 Adapt/manage exploitation of energy resources	Administrative	The publication of a Restoration Plan for this SAC site.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2023	National Raised Bog SAC Management Plan 2017-2022.
21	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MC02 Adapt/manage exploitation of energy resources	Administrative	Production of a Fire Prevention Plan for this SAC site.	Kilcarren Firville Bog SAC Restoration Plan	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	2026+	National Raised Bog SAC Management Plan 2017-2022.
22	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MA05 Adapt mowing, grazing and other equivalent agricultural activities (e.g. burning)	Statutory	Restricted destruction of vegetation on uncultivated land.	Wildlife Act 1976 as amended	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1976	All government plans and policy documents are cognisant of these protections.
23	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MC02 Adapt/manage exploitation of energy resources	Statutory	Control of activities, if not covered by other regulations, which could negatively impact on Kilcarren-Firville Bog SAC.	European Union Habitats (Kilcarren - Firville Bog Special Area of Conservation 000647) Regulations 2021	Department of Housing, Local Government and Heritage (DHLGH)/ National Parks and Wildlife Service (NPWS)	1997+	All government plans and policy documents are cognisant of these protections.

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No.	Ecological Requirements (Attributes as per SSCO)	Pressure /Threat (EU Code 2025)	Pressure/ Threat Ranking	EU Conservation Measure Type (EU Code 2019-2024)	Measure Category	Conservation Measure	Delivery mechanism	Public Authority with statutory responsibility	Implementation timeframe	Integration with high level plans/policy:
24	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MA07 Restoration of Annex I agricultural habitats (incl. re-establish and improve)	Contractual	<1% of terrestrial habitat in Kilcarren-Firville Bog SAC is subject to conservation results based scoring of the habitat as part of the Agri-Climate Rural Environment Scheme (ACRES).	Agri-Climate Rural Environment Scheme (ACRES) Scorecards	Department of Agriculture, Food and the Marine (DAFM).	2022+	CAP Strategic Plan
25	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MA - Measures related to agricultural practices and agriculture-related habitats	Contractual	1.5% Farm sustainability (extensively grazed pastures, geese and swans)	Agri-Climate Rural Environment Scheme (ACRES)	Department of Agriculture, Food and the Marine (DAFM).	2022+	CAP Strategic Plan
26	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MA - Measures related to agricultural practices and agriculture-related habitats	Contractual	24% uptake of eligible participants (33) in the voluntary Agri-Climate Rural Environment Scheme (ACRES).	Agri-Climate Rural Environment Scheme (ACRES)	Department of Agriculture, Food and the Marine (DAFM).	2022+	CAP Strategic Plan
27	1. Habitat area, 2. Habitat Distribution, 3. High Bog Area, 4.1 Hydrological regime - water levels, 4.2 Hydrological regime - flow patterns, 5. Transitional areas between high bog and adjacent mineral soils (including cutover areas), 6.1 Vegetation quality: central ecotype, active flush, soaks, bog woodland, 6.2 Vegetation quality: microtopographical features, 6.3 Vegetation quality: bog moss (Sphagnum) species, 7.1 Typical ARB species: flora, 7.2 Typical ARB species: fauna, 8. Elements of local distinctiveness, 9. Negative physical indicators, 10.1 Vegetation composition: native negative indicator species, 10.2 Vegetation composition: non-native invasive species, 11 Air quality: nitrogen deposition, 12 Water quality	All/Other Relevant Threats and Pressures		MA - Measures related to agricultural practices and agriculture-related habitats	Contractual	Production of an accredited Farm Sustainability Plan by 100% of participants in the Agri-Climate Rural Environmental Scheme (ACRES).	Agri-Climate Rural Environment Scheme (ACRES)	Department of Agriculture, Food and the Marine (DAFM).	2022+	CAP Strategic Plan