

---

**Kirkan Wind Farm**  
Environmental Impact Assessment Report  
**Appendix 6.1: Habitats and Vegetation**



## **CONTENTS**

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1</b>
<b>2</b>	<b>METHODOLOGY.....</b>	<b>1</b>
2.1	Objectives .....	1
2.2	Desk Study .....	1
2.3	Field Surveys .....	1
<b>3</b>	<b>RESULTS .....</b>	<b>3</b>
3.1	Desk Study .....	3
3.2	Field Surveys .....	3

## **ANNEXES**

Annex 1: Species List

Annex 2: NVC Survey Results

Annex 3: Target Notes

# **1 INTRODUCTION**

- 1.1.1 This appendix has been prepared to accompany Chapter 6: Ecology of the Kirkan Wind Farm Environmental Impact Assessment Report (EIAR).
- 1.1.2 It presents detailed methodologies and results of desk study and field surveys completed to establish baseline habitat conditions and should be read with reference to the following figures (presented in Volume 3 of the EIAR):
  - **Figure 6.1** - Project Area;
  - **Figure 6.2** – Phase 1 habitat Plan; and,
  - **Figure 6.3** – NVC Plan.

# **2 METHODOLOGY**

## **2.1 Objectives**

- 2.1.1 The objectives of the baseline studies were to:
  - Establish the spatial distribution of habitats and vegetation communities which may be impacted by the Kirkan Wind Farm (hereafter the proposed development); and
  - Identify the presence and distribution of potential Groundwater Dependent Terrestrial Ecosystems for (GWDTEs) for subsequent hydrological assessment.

## **2.2 Desk Study**

- 2.2.1 The Multi-Agency Geographic Information for the Countryside (MAGIC) (<http://magic.defra.gov.uk/>) was reviewed to identify any existing habitat data within the project area and immediate surroundings.
- 2.2.2 In addition, an information request was also submitted to the Highland Biological Recording Group (HBRG) for existing records of habitat types, protected and notable flora species.

## **2.3 Field Surveys**

### ***Key Guidance***

- 2.3.1 Survey methodologies and subsequent interpretation of results have made reference to the following key pieces of guidance;
  - JNCC (2010). Handbook for Phase 1 Habitat Survey - a technique for environmental audit. Revised Reprint 2010. JNCC, Peterborough.
  - Rodwell, J. S. (2006). National Vegetation Community Users' Handbook. JNCC, Peterborough.
  - Rodwell, J. S. (ed.) (1993). British Plant Communities. Volume 2. Mires and Heaths. Cambridge University Press, Cambridge.
  - Rodwell, J. S. (ed.) (1992). British Plant Communities. Volume 3. Grasslands and montane communities. Cambridge University Press, Cambridge.

- Stace, C. (1997). Field flora of the British Isles. Cambridge University Press, Cambridge
- Scotland and Northern Ireland Forum for Environmental Research (SNIFFER, 2009) WFD95:A *Functional Wetland Typology for Scotland – Field Survey Manual*. Version 1.

2.3.2 The following surveys have been completed:

- Phase 1 habitat survey (2017); and,
- National Vegetation Classification (NVC) survey (2017).

### ***Phase 1 Habitat Survey***

- 2.3.3 A Phase 1 habitat survey was undertaken between the 15<sup>th</sup> and 16<sup>th</sup> of July 2017.
- 2.3.4 The survey was undertaken in accordance with the UK industry standard Joint Nature Conservation Committee (JNCC) Phase 1 Habitat Methodology (JNCC, 2010).
- 2.3.5 During the survey all habitats within the search area used for the other ecological surveys were mapped according to industry standards and described using a series of ‘target notes’ (TNs).

### ***NVC Survey***

- 2.3.6 An NVC survey was undertaken between the 17<sup>th</sup> and 20<sup>th</sup> of July 2017 following the guiding principles detailed within the ‘National Vegetation Classification: User’s Handbook’ (Rodwell, 2006).
- 2.3.7 The NVC study area comprised all noteworthy habitats within the project area and out to 250 m as access allowed.
- 2.3.8 Within the study area, areas were selected for NVC survey based on the presence of homogenous stands of vegetation and focusing on UK and/or Local Biodiversity Action Plan (LBAP) habitats of potential nature conservation value, as identified during the initial Phase 1 Habitat Survey.
- 2.3.9 The following Phase 1 habitat types as identified during the Extended Phase 1 habitat survey were included:
- Dry dwarf shrub heath (D1);
  - Wet dwarf shrub heath (D2); and,
  - Blanket bog (E1.6.1) and,
  - Flush and Spring (E2).
- 2.3.10 The following habitats were excluded from NVC survey because they were considered unlikely to be of substantial botanical interest:
- Poor semi-improved grassland (B6);
  - Coniferous plantation woodland (A1.2.2);
  - Broad-leaved plantation woodland (A1.2.3); and,
  - Recently felled coniferous plantation (A4.2).
- 2.3.11 During survey, square quadrats of size 2 m<sup>2</sup> were distributed throughout homogenous stands identified in order to provide a representative sample of the vegetation community present.

- 2.3.12 In each quadrat sample area, data was collected on the presence and abundance of vascular plant species using the Domin scale. These data were then analysed and classified to an NVC vegetation community, where possible, using the keys in Rodwell (various) British Plant Communities Volumes 1 to 5.

### **Personnel**

- 2.3.13 Surveys were conducted by Mr C. Davies MSc MCIEEM and Ms S. Turner BSc (Hons) MSc GradCIEEM; both competent botanists with considerable experience of undertaking Phase 1 Habitat and NVC surveys for proposed wind farm developments, across numerous comparable upland sites in Scotland.
- 2.3.14 NVC analysis was conducted by Mr C. Davies.

## **3 RESULTS**

### **3.1 Desk Study**

- 3.1.1 The desk study did not identify any records of known habitat types within the project area.
- 3.1.2 No existing records of protected or notable flora were returned by the HBRG.

### **3.2 Field Surveys**

- 3.2.1 This section presents the results of baseline field surveys, including an overview of habitat types present within the study area and their distribution. It should be read with reference to **Figures 6.2** and **6.3**.
- 3.2.2 Detailed species lists and domin scores relating to each distinct community are presented in **Annexes 1 and 2**. TNs shown in Figure 6.2 are detailed in **Annex 3**, along with photographs, and represent habitat descriptions and points of nature conservation interest or nature conservation value recorded during surveys.
- 3.2.3 The study area is dominated throughout by a mix of blanket bog communities (E1.6.1) on deeper peat and wet dwarf shrub heath communities (D2) on shallower soils, with dominant ling *Calluna vulgaris* and deergrass *Trichophorum germanicum* in variable proportions, sometimes with hare's-tail cottongrass *Eriophorum vaginatum* as an important component. These form fairly large areas within the west and southern extents of the study area.
- 3.2.4 In the central and eastern areas of the study area topography is much more variable, resulting in a mosaic of wet heath habitats with blanket bog on pockets of deeper peat, and occasional grass and sedge dominated mire communities (E2) on flushes and along watercourses.
- 3.2.5 Within the eastern extent of the study area is a large enclosed area which has been planted with Scots pine *Pinus sylvestris* and downy birch *Betula pubescens* (A1.1.2 and A1.2.2) atop the blanket bog and wet heath habitats. Whilst having been planted reportedly in the later 1980's, these trees are today poorly established with stunted growth, most likely due to local conditions.
- 3.2.6 The study area is drained by a number of small upland streams (G2) with stony beds.
- 3.2.7 No protected plant species were found within the project area however, dwarf birch *Betula nana* was noted as relatively widespread locally.

### **Blanket bog**

- 3.2.8 The best community match for blanket bog within the study area is M17 *Trichophorum cespitosum-Eriophorum vaginatum* blanket mire. This community is typically dominated by *Trichophorum cespitosum*, *Eriophorum vaginatum* and *Eriophorum angustifolium* with *Calluna vulgaris* and *Erica tetralix*. *Sphagnum papillosum* and *S. capillifolium* are the commonest sphagnums whilst *Narthecium ossifragum* and *Drosera* species are also present in good numbers.
- 3.2.9 There are two sub-communities within the study area. The *Drosera rotundifolium-sphagnum* species sub-community M17a occurs sparsely in the wettest parts of the bog, and here *Drosera* species are especially common with the oceanic liverwort *Pleurozia purpurea* also present and there are stands of *Myrica gale*.
- 3.2.10 The Cladonia sub-community M17b is the dominant sub-community on site, occurring on slightly drier peat over the majority of it. Where it does occur the Cladonia can be extensive; however in other parts of this sub-community the Cladonia is largely replaced by the moss *Racomitrium lanuginosum* which typically grows in silvery green hummocks.
- 3.2.11 M17 *Trichophorum cespitosum-Eriophorum vaginatum* blanket mire is rare globally however, is common throughout the North West Highlands of Scotland (Averis et.al., 2004).

### **Wet heath**

- 3.2.12 The best community match for wet heath within the study area is M15 *Trichophorum cespitosum-Erica tetralix* wet heath. This is a ubiquitous community over much of the north and west of Scotland.
- 3.2.13 The community is dominated by *Calluna vulgaris*, *Erica tetralix*, *Trichophorum cespitosum* and *Molinia caerulea* and has much *Narthecium ossifragum* and *Eriophorum angustifolium*. The sub-community present on site is M15b typical sub-community.

### **Mire**

- 3.2.14 Small areas of M6 *Carex echinata – Sphagnum fallax* mire occurs within the study area, largely following the course of streams through the blanket bog. It is dominated by *Carex echinata*, with other sedges including *Carex nigra*, and forbs including *Viola palustris* and *Potentilla erecta*. *Sphagnum fallax* is the dominant bryophyte.

### **Summary**

- 3.2.15 Vegetation communities present within the study area are summarised in Table 3.1, along with corresponding Habitats Directive (92/43/EEC) Annex 1 Habitat types and Ground Water Dependant Terrestrial Ecosystems (GWDTE) status in accordance with SNIFFER guidance (2009<sup>1</sup>).

---

<sup>1</sup> SNIFFER (2009) WFD95: A Functional Wetland Typology for Scotland – Field Survey Manual. Version 1. ISBN: 978-1-906934-22-4.

**Table 3.1: Summary of vegetation communities.**

NVC community	Principle corresponding Habitats Directive Annex I type/s	Dependence of community/ habitat on groundwater. 1=High, 2=moderate, 3=low
M6 <i>Carex echinata – Sphagnum fallax</i> mire	None directly applies.	2
M15 <i>Trichophorum cespitosum- Erica tetralix</i> wet heath	European wet heath.	2
M17 <i>Trichophorum cespitosum-Eriophorum vaginatum</i> blanket mire	Active raised bog and blanket bog.	3

## ANNEX 1: SPECIES LIST

A summary of botanical species recorded during the Phase 1 habitat and NVC survey is provided in **Table A1-1** below.

**Table A1-1: Summary botanical species list.**

Species	
<i>Calluna vulgaris</i>	Common heather
<i>Sphagnum capillifolium</i>	Red bog-moss
<i>Cladonia sp.</i>	Lichen species
<i>Trichophorum cespitosum</i>	Deergrass
<i>Molinia caerulea</i>	Purple moor-grass
<i>Sphagnum papillosum</i>	Papillose bog-moss
<i>Eriophorum vaginatum</i>	Hare's-tail cottongrass
<i>Erica tetralix</i>	Cross-leaved heath
<i>Racomitrium lanuginosum</i>	Woolly fringe-moss
<i>Eriophorum angustifolium</i>	Common cottongrass
<i>Hylocomium splendens</i>	Glittering wood-moss
<i>Narthecium ossifragum</i>	Bog asphodel
<i>Myrica gale</i>	Bog-myrtle
<i>Carex echinata</i>	Star sedge
<i>Hypnum jutlandicum</i>	Heath plait-moss
<i>Potentilla erecta</i>	T tormentil
<i>Juncus squarrosus</i>	Heath rush
<i>Sphagnum fallax</i>	Flat-topped bog-moss
<i>Betula nana</i>	Dwarf birch
<i>Carex nigra</i>	Common sedge
<i>Juncus conglomeratus</i>	Compact rush
<i>Pleurozium schreberi</i>	Red-stemmed feather-moss
<i>Pleurozia purpurea</i>	Purple spoonwort
<i>Empetrum nigrum</i>	Crowberry
<i>Drosera rotundifolia</i>	Round-leaved sundew
<i>Polytrichum commune</i>	Common haircap
<i>Nardus stricta</i>	Mat-grass
<i>Sphagnum cuspidatum</i>	Feathery bog-moss
<i>Juncus effusus</i>	Soft rush
<i>Viola palustris</i>	Marsh violet
<i>Sphagnum subnitens</i>	Lustrous bog-moss
<i>Sphagnum magellanicum</i>	Magellanic bog-moss

<i>Succisa pratensis</i>	Devil's-bit scabious
<i>Deschampsia flexuosa</i>	Wavy hair-grass
<i>Galium saxatile</i>	Heath bedstraw
<i>Vaccinium myrtillus</i>	Bilberry
<i>Galium palustre</i>	Marsh bedstraw
<i>Sphagnum affine</i>	Imbricate bog-moss
<i>Luzula multiflora ssp. Congesta</i>	Heath wood-rush
<i>Drosera anglica</i>	Great sundew
<i>Trientalis europaea</i>	Chickweed
<i>Pedicularis sylvatica</i>	Lousewort
<i>Menyanthes trifoliata</i>	Bogbean
<i>Huperzia selago</i>	Fir clubmoss
<i>Carex pulicaris</i>	Flea sedge
<i>Rhytidadelphus loreus</i>	Little shaggy-moss
<i>Dicranum scoparium</i>	Broom fork-moss
<i>Carex binervis</i>	Green-ribbed sedge
<i>Ranunculus repens</i>	Creeping buttercup
<i>Festuca vivipara</i>	Sheep's fescue
<i>Pinguicula vulgaris</i>	Common butterwort
<i>Carex panicea</i>	Carnation sedge
<i>Blechnum spicant</i>	Hard fern
<i>Sphagnum palustre</i>	Blunt-leaved bog-moss
<i>Carex pilulifera</i>	Pill sedge
<i>Euphrasia sp.</i>	Eyebright species
<i>Dactylorhiza maculata</i>	Heath spotted orchid
<i>Aulacomnium palustre</i>	Bog bead-moss
<i>Sphagnum compactum</i>	Compact bog-moss
<i>Melampyrum pratense</i>	Common cow-wheat
<i>Anthoxanthum odoratum</i>	Sweet vernal grass
<i>Pseudoscleropodium purum</i>	Neat feather-moss
<i>Sphagnum denticulatum</i>	Cow-horn bog-moss
<i>Tofieldia pusilla</i>	Scottish asphodel
<i>Polygala serpyllifolia</i>	Heath milkwort
<i>Sphagnum tenellum</i>	Soft bog-moss
<i>Neottia cordata</i>	Lesser twayblade

## ANNEX 2: NVC SURVEY RESULTS

Tables A2-1 and A2-2 below outline DOMIN scales and scores for NVC survey results.

**Table A2-1: Dominance (DOMIN) scale.**

Code	Approximate percentage cover in quadrat
10	>90%
9	75 – 90%
8	51 – 75%
7	34 – 50%
6	26 – 33%
5	11 – 25%
4	5 – 10%
3	<5%, many individuals
2	<5%, a few individuals
1	<5%, one or two individuals

**Table A2-1: Quadrat species compositions.**

Quadrat	Easting	Northing
1	235166	869736
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		7
<i>Sphagnum capillifolium</i>		7
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		9
<i>Eriophorum vaginatum</i>		4
<i>Erica tetralix</i>		4
<i>Eriophorum angustifolium</i>		4
<i>Narthecium ossifragum</i>		4
<i>Potentilla erecta</i>		4
<i>Pleurozium schreberi</i>		4
Quadrat	Easting	Northing
2	235131	869686
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		7
<i>Sphagnum capillifolium</i>		8
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		8
<i>Eriophorum vaginatum</i>		5

<i>Erica tetralix</i>	4	
<i>Narthecium ossifragum</i>	4	
<i>Myrica gale</i>	4	
<i>Hypnum jutlandicum</i>	4	
<i>Drosera rotundifolia</i>	1	
Quadrat	Easting	Northing
3	235198	869498
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Cladonia sp.</i>	8	
<i>Trichophorum cespitosum</i>	7	
<i>Erica tetralix</i>	7	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	4	
<i>Narthecium ossifragum</i>	5	
<i>Myrica gale</i>	7	
<i>Hypnum jutlandicum</i>	4	
<i>Rhytidadelphus loreus</i>	4	
Quadrat	Easting	Northing
4	235040	868279
Species	DOMIN	
<i>Sphagnum capillifolium</i>	6	
<i>Molinia caerulea</i>	4	
<i>Sphagnum papillosum</i>	6	
<i>Erica tetralix</i>	7	
<i>Narthecium ossifragum</i>	4	
<i>Carex echinata</i>	5	
<i>Potentilla erecta</i>	4	
<i>Sphagnum subnitens</i>	4	
Quadrat	Easting	Northing
5	234893	869170
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	8	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	4	

<i>Narthecium ossifragum</i>	1	
<i>Juncus squarrosum</i>	5	
<i>Sphagnum subnitens</i>	4	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
6	234842	869061
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	7	
<i>Cladonia sp.</i>	9	
<i>Trichophorum cespitosum</i>	4	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	6	
<i>Narthecium ossifragum</i>	4	
<i>Myrica gale</i>	9	
<i>Hypnum jutlandicum</i>	4	
<i>Potentilla erecta</i>	4	
<i>Sphagnum compactum</i>	4	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
7	234837	868960
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	4	
<i>Cladonia sp.</i>	7	
<i>Molinia caerulea</i>	8	
<i>Erica tetralix</i>	5	
<i>Narthecium ossifragum</i>	8	
<i>Myrica gale</i>	5	
<i>Juncus squarrosum</i>	7	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
8	234891	868906
<b>Species</b>	<b>DOMIN</b>	
<i>Sphagnum papillosum</i>	8	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	5	
<i>Eriophorum angustifolium</i>	5	
<i>Narthecium ossifragum</i>	4	
<i>Carex echinata</i>	4	
<i>Potentilla erecta</i>	5	
<i>Sphagnum fallax</i>	4	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>

9	234918	868823
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		7
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		4
<i>Sphagnum papillosum</i>		7
<i>Eriophorum vaginatum</i>		4
<i>Erica tetralix</i>		7
<i>Racomitrium lanuginosum</i>		5
<i>Eriophorum angustifolium</i>		5
<i>Drosera rotundifolia</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
10	234935	868751
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		9
<i>Sphagnum capillifolium</i>		5
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		5
<i>Sphagnum papillosum</i>		7
<i>Eriophorum vaginatum</i>		5
<i>Erica tetralix</i>		5
<i>Eriophorum angustifolium</i>		4
<i>Pleurozia purpurea</i>		7
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
11	234974	868568
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		6
<i>Sphagnum capillifolium</i>		8
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		4
<i>Eriophorum vaginatum</i>		7
<i>Erica tetralix</i>		5
<i>Eriophorum angustifolium</i>		5
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
12	235060	868452
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		7

<i>Sphagnum capillifolium</i>	5
<i>Cladonia sp.</i>	8
<i>Trichophorum cespitosum</i>	7
<i>Sphagnum papillosum</i>	6
<i>Erica tetralix</i>	4
<i>Racomitrium lanuginosum</i>	4
<i>Eriophorum angustifolium</i>	4
<i>Narthecium ossifragum</i>	4
<i>Hypnum jutlandicum</i>	4
<i>Potentilla erecta</i>	4
<i>Juncus squarrosus</i>	5
<b>Quadrat</b>	<b>Easting</b>
13	235134
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	7
<i>Sphagnum capillifolium</i>	7
<i>Cladonia sp.</i>	7
<i>Trichophorum cespitosum</i>	7
<i>Eriophorum vaginatum</i>	7
<i>Erica tetralix</i>	4
<i>Eriophorum angustifolium</i>	4
<i>Hypnum jutlandicum</i>	5
<i>Juncus squarrosus</i>	6
<i>Sphagnum subnitens</i>	4
<b>Quadrat</b>	<b>Easting</b>
14	235189
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	9
<i>Cladonia sp.</i>	10
<i>Trichophorum cespitosum</i>	5
<i>Racomitrium lanuginosum</i>	4
<b>Quadrat</b>	<b>Easting</b>
15	235257
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	5
<i>Sphagnum capillifolium</i>	4
<i>Cladonia sp.</i>	8
<i>Trichophorum cespitosum</i>	7

<i>Sphagnum papillosum</i>	7	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	4	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	4	
<i>Pleurozia purpurea</i>	4	
<i>Drosera rotundifolia</i>	2	
Quadrat	Easting	Northing
16	235311	868391
Species	DOMIN	
<i>Calluna vulgaris</i>	8	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	7	
<i>Trichophorum cespitosum</i>	5	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	7	
<i>Eriophorum angustifolium</i>	5	
<i>Narthecium ossifragum</i>	5	
<i>Drosera rotundifolia</i>	1	
<i>Sphagnum cuspidatum</i>	5	
<i>Sphagnum subnitens</i>	4	
Quadrat	Easting	Northing
17	235347	868368
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	5	
<i>Cladonia sp.</i>	6	
<i>Trichophorum cespitosum</i>	9	
<i>Sphagnum papillosum</i>	5	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	6	
<i>Eriophorum angustifolium</i>	4	
<i>Pleurozia purpurea</i>	4	
<i>Sphagnum magellanicum</i>	5	
<i>Vaccinium myrtillus</i>	4	
Quadrat	Easting	Northing
18	235406	868318

<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	4	
<i>Cladonia sp.</i>	6	
<i>Trichophorum cespitosum</i>	7	
<i>Eriophorum vaginatum</i>	5	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	8	
<i>Eriophorum angustifolium</i>	5	
<i>Hypnum jutlandicum</i>	5	
<i>Drosera rotundifolia</i>	2	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
19	235479	868218
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	6	
<i>Cladonia sp.</i>	6	
<i>Eriophorum vaginatum</i>	5	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	9	
<i>Eriophorum angustifolium</i>	4	
<i>Hypnum jutlandicum</i>	4	
<i>Drosera rotundifolia</i>	2	
<i>Drosera anglica</i>	2	
<i>Huperzia selago</i>	2	
<i>Pinguicula vulgaris</i>	3	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
20	235549	867883
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	7	
<i>Sphagnum capillifolium</i>	9	
<i>Cladonia sp.</i>	8	
<i>Trichophorum cespitosum</i>	8	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	5	
<i>Narthecium ossifragum</i>	4	
<i>Hypnum jutlandicum</i>	4	
<i>Potentilla erecta</i>	4	
<i>Drosera rotundifolia</i>	2	

<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
21	235565	867789
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		8
<i>Cladonia sp.</i>		8
<i>Trichophorum cespitosum</i>		6
<i>Racomitrium lanuginosum</i>		7
<i>Narthecium ossifragum</i>		4
<i>Potentilla erecta</i>		4
<i>Huperzia selago</i>		2
<i>Carex pilulifera</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
22	235568	867781
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Cladonia sp.</i>		7
<i>Erica tetralix</i>		4
<i>Racomitrium lanuginosum</i>		4
<i>Potentilla erecta</i>		4
<i>Nardus stricta</i>		4
<i>Huperzia selago</i>		3
<i>Carex pilulifera</i>		3
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
23	235725	867665
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		6
<i>Cladonia sp.</i>		10
<i>Trichophorum cespitosum</i>		6
<i>Erica tetralix</i>		5
<i>Racomitrium lanuginosum</i>		5
<i>Eriophorum angustifolium</i>		7
<i>Huperzia selago</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
24	235768	867659
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		9
<i>Eriophorum vaginatum</i>		4
<i>Erica tetralix</i>		4

<i>Eriophorum angustifolium</i>	5	
<i>Hylocomium splendens</i>	9	
<i>Potentilla erecta</i>	4	
<i>Trientalis europaea</i>	4	
<i>Neottia cordata</i>	1	
Quadrat	Easting	Northing
25	236012	867807
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Cladonia sp.</i>	4	
<i>Molinia caerulea</i>	4	
<i>Erica tetralix</i>	4	
<i>Narthecium ossifragum</i>	7	
<i>Hypnum jutlandicum</i>	5	
<i>Juncus squarrosus</i>	5	
<i>Drosera rotundifolia</i>	1	
<i>Nardus stricta</i>	4	
<i>Huperzia selago</i>	2	
<i>Pinguicula vulgaris</i>	2	
<i>Tofieldia pusilla</i>	2	
Quadrat	Easting	Northing
26	235988	867772
Species	DOMIN	
<i>Calluna vulgaris</i>	7	
<i>Cladonia sp.</i>	5	
<i>Molinia caerulea</i>	5	
<i>Erica tetralix</i>	4	
<i>Hylocomium splendens</i>	7	
<i>Potentilla erecta</i>	4	
<i>Carex nigra</i>	5	
<i>Viola palustris</i>	4	
<i>Deschampsia flexuosa</i>	4	
<i>Carex panicea</i>	4	
Quadrat	Easting	Northing
27	236001	867704
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Cladonia sp.</i>	7	

<i>Trichophorum cespitosum</i>	9	
<i>Erica tetralix</i>	4	
<i>Racomitrium lanuginosum</i>	7	
<i>Narthecium ossifragum</i>	5	
<i>Potentilla erecta</i>	4	
<i>Pleurozium schreberi</i>	4	
<i>Pleurozia purpurea</i>	5	
<i>Succisa pratensis</i>	4	
<i>Pedicularis sylvatica</i>	4	
<i>Euphrasia sp.</i>	2	
Quadrat	Easting	Northing
28	236008	867617
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	9	
<i>Trichophorum cespitosum</i>	9	
<i>Juncus squarrosus</i>	6	
<i>Pleurozia purpurea</i>	6	
Quadrat	Easting	Northing
29	236097	867485
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	6	
<i>Trichophorum cespitosum</i>	5	
<i>Sphagnum papillosum</i>	6	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	5	
<i>Eriophorum angustifolium</i>	7	
<i>Narthecium ossifragum</i>	4	
<i>Sphagnum magellanicum</i>	4	
Quadrat	Easting	Northing
30	236717	866468
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	4	
<i>Cladonia sp.</i>	9	

<i>Trichophorum cespitosum</i>	7
<i>Molinia caerulea</i>	7
<i>Erica tetralix</i>	5
<i>Racomitrium lanuginosum</i>	6
<i>Potentilla erecta</i>	4
<b>Quadrat</b>	<b>Easting</b>
31	236857
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	5
<i>Sphagnum capillifolium</i>	4
<i>Cladonia sp.</i>	9
<i>Trichophorum cespitosum</i>	7
<i>Molinia caerulea</i>	7
<i>Erica tetralix</i>	4
<i>Racomitrium lanuginosum</i>	7
<b>Quadrat</b>	<b>Easting</b>
32	236704
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	5
<i>Cladonia sp.</i>	5
<i>Trichophorum cespitosum</i>	7
<i>Molinia caerulea</i>	7
<i>Erica tetralix</i>	4
<i>Racomitrium lanuginosum</i>	6
<i>Potentilla erecta</i>	4
<b>Quadrat</b>	<b>Easting</b>
33	236254
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	7
<i>Sphagnum capillifolium</i>	7
<i>Cladonia sp.</i>	6
<i>Trichophorum cespitosum</i>	8
<i>Sphagnum papillosum</i>	5
<i>Erica tetralix</i>	5
<i>Racomitrium lanuginosum</i>	6
<i>Eriophorum angustifolium</i>	5
<i>Juncus squarrosus</i>	7
<i>Betula nana</i>	4

<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
34	236511	867598
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		7
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		6
<i>Molinia caerulea</i>		5
<i>Sphagnum papillosum</i>		7
<i>Erica tetralix</i>		5
<i>Eriophorum angustifolium</i>		4
<i>Narthecium ossifragum</i>		4
<i>Carex echinata</i>		4
<i>Potentilla erecta</i>		4
<i>Pleurozia purpurea</i>		4
<i>Drosera rotundifolia</i>		1
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
35	236608	867608
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Molinia caerulea</i>		6
<i>Erica tetralix</i>		4
<i>Eriophorum angustifolium</i>		4
<i>Narthecium ossifragum</i>		4
<i>Myrica gale</i>		7
<i>Carex echinata</i>		7
<i>Potentilla erecta</i>		4
<i>Succisa pratensis</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
36	236649	867609
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		9
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		4
<i>Molinia caerulea</i>		4
<i>Sphagnum papillosum</i>		5
<i>Eriophorum vaginatum</i>		5

<i>Erica tetralix</i>	4	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	5	
<i>Narthecium ossifragum</i>	5	
<i>Potentilla erecta</i>	4	
<i>Drosera rotundifolia</i>	4	
<i>Betula nana</i>	4	
<i>Sphagnum affine</i>	4	
<i>Carex pulicaris</i>	4	
Quadrat	Easting	Northing
37	236680	867633
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	4	
<i>Molinia caerulea</i>	5	
<i>Sphagnum papillosum</i>	5	
<i>Eriophorum vaginatum</i>	5	
<i>Erica tetralix</i>	4	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	4	
<i>Narthecium ossifragum</i>	4	
<i>Myrica gale</i>	6	
<i>Carex echinata</i>	4	
<i>Potentilla erecta</i>	4	
<i>Drosera rotundifolia</i>	4	
<i>Succisa pratensis</i>	2	
<i>Carex pulicaris</i>	4	
<i>Euphrasia sp.</i>	4	
Quadrat	Easting	Northing
38	236692	867661
Species	DOMIN	
<i>Calluna vulgaris</i>	7	
<i>Sphagnum capillifolium</i>	4	
<i>Cladonia sp.</i>	6	
<i>Molinia caerulea</i>	7	
<i>Sphagnum papillosum</i>	8	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	4	

<i>Racomitrium lanuginosum</i>	4
<i>Eriophorum angustifolium</i>	5
<i>Hylocomium splendens</i>	6
<i>Narthecium ossifragum</i>	4
<i>Myrica gale</i>	9
<i>Hypnum jutlandicum</i>	6
<i>Potentilla erecta</i>	4
<i>Drosera rotundifolia</i>	4
<i>Sphagnum affine</i>	4
<i>Drosera anglica</i>	4
<b>Quadrat</b>	<b>Easting</b>
39	236684
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	6
<i>Sphagnum capillifolium</i>	7
<i>Cladonia sp.</i>	9
<i>Trichophorum cespitosum</i>	5
<i>Molinia caerulea</i>	9
<i>Erica tetralix</i>	5
<i>Racomitrium lanuginosum</i>	4
<i>Hylocomium splendens</i>	6
<i>Narthecium ossifragum</i>	4
<i>Hypnum jutlandicum</i>	5
<i>Potentilla erecta</i>	4
<i>Melampyrum pratense</i>	4
<b>Quadrat</b>	<b>Easting</b>
40	236724
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	4
<i>Sphagnum capillifolium</i>	5
<i>Molinia caerulea</i>	5
<i>Erica tetralix</i>	4
<i>Eriophorum angustifolium</i>	5
<i>Narthecium ossifragum</i>	4
<i>Carex echinata</i>	4
<i>Potentilla erecta</i>	4
<i>Sphagnum fallax</i>	7
<i>Drosera rotundifolia</i>	4

<i>Sphagnum magellanicum</i>	5	
<i>Sphagnum affine</i>	4	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
41	236663	867972
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	4	
<i>Sphagnum capillifolium</i>	8	
<i>Trichophorum cespitosum</i>	7	
<i>Molinia caerulea</i>	4	
<i>Erica tetralix</i>	5	
<i>Eriophorum angustifolium</i>	5	
<i>Narthecium ossifragum</i>	4	
<i>Hypnum jutlandicum</i>	5	
<i>Potentilla erecta</i>	4	
<i>Sphagnum subnitens</i>	5	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
42	236621	868105
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	4	
<i>Cladonia sp.</i>	5	
<i>Molinia caerulea</i>	8	
<i>Sphagnum papillosum</i>	6	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	4	
<i>Narthecium ossifragum</i>	4	
<i>Myrica gale</i>	5	
<i>Carex echinata</i>	4	
<i>Drosera rotundifolia</i>	4	
<i>Sphagnum cuspidatum</i>	7	
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
43	236671	868190
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	4	
<i>Cladonia sp.</i>	4	
<i>Sphagnum papillosum</i>	7	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	4	

<i>Eriophorum angustifolium</i>	7	
<i>Myrica gale</i>	6	
<i>Drosera rotundifolia</i>	4	
Quadrat	Easting	Northing
44	236341	869269
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	4	
<i>Cladonia sp.</i>	8	
<i>Trichophorum cespitosum</i>	7	
<i>Molinia caerulea</i>	4	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	2	
<i>Eriophorum angustifolium</i>	4	
<i>Hylocomium splendens</i>	7	
<i>Narthecium ossifragum</i>	3	
<i>Potentilla erecta</i>	1	
<i>Juncus squarrosus</i>	4	
<i>Pleurozia purpurea</i>	4	
<i>Drosera rotundifolia</i>	1	
Quadrat	Easting	Northing
45	236284	869169
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	10	
<i>Sphagnum capillifolium</i>	4	
<i>Cladonia sp.</i>	3	
<i>Trichophorum cespitosum</i>	2	
<i>Pleurozium schreberi</i>	4	
<i>Rhytidadelphus loreus</i>	4	
<i>Dicranum scoparium</i>	4	
Quadrat	Easting	Northing
46	236269	869092
<b>Species</b>	<b>DOMIN</b>	
<i>Calluna vulgaris</i>	9	
<i>Cladonia sp.</i>	4	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	7	
<i>Hylocomium splendens</i>	7	

<i>Hypnum jutlandicum</i>	4	
<i>Potentilla erecta</i>	4	
<i>Pleurozium schreberi</i>	4	
<i>Dactylorhiza maculata</i>	4	
Quadrat	Easting	Northing
47	236258	869054
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	5	
<i>Cladonia sp.</i>	4	
<i>Trichophorum cespitosum</i>	9	
<i>Sphagnum papillosum</i>	5	
<i>Eriophorum vaginatum</i>	4	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	5	
Quadrat	Easting	Northing
48	236180	868936
Species	DOMIN	
<i>Calluna vulgaris</i>	8	
<i>Cladonia sp.</i>	4	
<i>Molinia caerulea</i>	5	
<i>Erica tetralix</i>	4	
<i>Hylocomium splendens</i>	8	
<i>Narthecium ossifragum</i>	4	
<i>Hypnum jutlandicum</i>	4	
<i>Potentilla erecta</i>	5	
<i>Juncus squarrosus</i>	4	
<i>Pleurozium schreberi</i>	4	
<i>Polytrichum commune</i>	4	
<i>Succisa pratensis</i>	5	
<i>Carex binervis</i>	5	
<i>Dactylorhiza maculata</i>	1	
<i>Anthoxanthum odoratum</i>	4	
Quadrat	Easting	Northing
49	236133	868784
Species	DOMIN	
<i>Calluna vulgaris</i>	8	
<i>Sphagnum capillifolium</i>	7	

<i>Cladonia sp.</i>	4
<i>Molinia caerulea</i>	4
<i>Eriophorum vaginatum</i>	5
<i>Erica tetralix</i>	4
<i>Hylocomium splendens</i>	7
<i>Pleurozium schreberi</i>	5
<i>Empetrum nigrum</i>	5
<b>Quadrat</b>	<b>Easting</b>
50	236120
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	5
<i>Sphagnum capillifolium</i>	4
<i>Cladonia sp.</i>	7
<i>Trichophorum cespitosum</i>	9
<i>Erica tetralix</i>	4
<i>Hypnum jutlandicum</i>	6
<i>Juncus squarrosus</i>	5
<i>Pleurozium schreberi</i>	5
<b>Quadrat</b>	<b>Easting</b>
51	236130
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	7
<i>Sphagnum capillifolium</i>	9
<i>Molinia caerulea</i>	4
<i>Eriophorum vaginatum</i>	4
<i>Hypnum jutlandicum</i>	10
<i>Juncus squarrosus</i>	4
<i>Empetrum nigrum</i>	7
<b>Quadrat</b>	<b>Easting</b>
52	236245
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	7
<i>Cladonia sp.</i>	4
<i>Trichophorum cespitosum</i>	5
<i>Molinia caerulea</i>	6
<i>Erica tetralix</i>	4
<i>Juncus squarrosus</i>	4
<i>Drosera rotundifolia</i>	2

<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
53	236344	868565
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		7
<i>Sphagnum capillifolium</i>		4
<i>Molinia caerulea</i>		4
<i>Erica tetralix</i>		4
<i>Hylocomium splendens</i>		6
<i>Potentilla erecta</i>		4
<i>Pleurozium schreberi</i>		4
<i>Nardus stricta</i>		4
<i>Deschampsia flexuosa</i>		4
<i>Vaccinium myrtillus</i>		5
<i>Blechnum spicant</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
54	236432	868371
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		7
<i>Sphagnum capillifolium</i>		8
<i>Cladonia sp.</i>		5
<i>Eriophorum vaginatum</i>		4
<i>Erica tetralix</i>		4
<i>Eriophorum angustifolium</i>		8
<i>Narthecium ossifragum</i>		4
<i>Hypnum jutlandicum</i>		4
<i>Potentilla erecta</i>		4
<i>Juncus squarrosus</i>		4
<i>Pleurozium schreberi</i>		5
<i>Dicranum scoparium</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
55	236524	868418
<b>Species</b>		<b>DOMIN</b>
<i>Molinia caerulea</i>		4
<i>Sphagnum papillosum</i>		4
<i>Potentilla erecta</i>		4
<i>Juncus squarrosus</i>		4
<i>Pleurozium schreberi</i>		5
<i>Polytrichum commune</i>		5

<i>Nardus stricta</i>	9	
<i>Deschampsia flexuosa</i>	4	
<i>Galium saxatile</i>	4	
<i>Pedicularis sylvatica</i>	4	
<i>Festuca vivipara</i>	4	
<i>Pseudoscleropodium purum</i>	4	
Quadrat	Easting	Northing
56	236532	868438
Species	DOMIN	
<i>Sphagnum capillifolium</i>	4	
<i>Molinia caerulea</i>	8	
<i>Sphagnum papillosum</i>	4	
<i>Potentilla erecta</i>	5	
<i>Juncus squarrosus</i>	5	
<i>Juncus conglomeratus</i>	4	
<i>Polytrichum commune</i>	8	
<i>Galium saxatile</i>	5	
<i>Galium palustre</i>	4	
<i>Luzula multiflora</i> ssp. <i>Congesta</i>	4	
Quadrat	Easting	Northing
57	236553	868450
Species	DOMIN	
<i>Molinia caerulea</i>	10	
<i>Potentilla erecta</i>	4	
<i>Galium palustre</i>	4	
Quadrat	Easting	Northing
58	236589	868488
Species	DOMIN	
<i>Molinia caerulea</i>	10	
<i>Erica tetralix</i>	4	
<i>Hylocomium splendens</i>	4	
<i>Potentilla erecta</i>	4	
<i>Viola palustris</i>	4	
<i>Galium palustre</i>	4	
<i>Luzula multiflora</i> ssp. <i>Congesta</i>	4	
<i>Festuca vivipara</i>	4	
Quadrat	Easting	Northing
59	236821	868423

<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		5
<i>Erica tetralix</i>		4
<i>Carex echinata</i>		8
<i>Potentilla erecta</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
60	236849	868372
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		8
<i>Cladonia sp.</i>		4
<i>Molinia caerulea</i>		5
<i>Erica tetralix</i>		4
<i>Racomitrium lanuginosum</i>		5
<i>Narthecium ossifragum</i>		6
<i>Potentilla erecta</i>		4
<i>Drosera rotundifolia</i>		4
<i>Drosera anglica</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
61	236888	868294
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		7
<i>Sphagnum capillifolium</i>		5
<i>Trichophorum cespitosum</i>		4
<i>Molinia caerulea</i>		7
<i>Erica tetralix</i>		5
<i>Racomitrium lanuginosum</i>		4
<i>Narthecium ossifragum</i>		5
<i>Potentilla erecta</i>		4
<i>Drosera rotundifolia</i>		4
<i>Betula nana</i>		5
<i>Drosera anglica</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
62	237145	868417
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		8

<i>Cladonia</i> sp.	4	
<i>Sphagnum papillosum</i>	4	
<i>Erica tetralix</i>	5	
<i>Drosera rotundifolia</i>	4	
Quadrat	Easting	Northing
63	236755	868995
<b>Species</b>		<b>DOMIN</b>
<i>Molinia caerulea</i>	6	
<i>Potentilla erecta</i>	4	
<i>Carex nigra</i>	6	
<i>Juncus conglomeratus</i>	9	
<i>Viola palustris</i>	5	
<i>Succisa pratensis</i>	4	
<i>Trientalis europaea</i>	4	
<i>Ranunculus repens</i>	4	
Quadrat	Easting	Northing
64	236791	868983
<b>Species</b>		<b>DOMIN</b>
<i>Molinia caerulea</i>	6	
<i>Carex echinata</i>	5	
<i>Potentilla erecta</i>	4	
<i>Sphagnum fallax</i>	5	
<i>Juncus conglomeratus</i>	9	
<i>Polytrichum commune</i>	5	
<i>Viola palustris</i>	5	
<i>Luzula multiflora</i> ssp. <i>Congesta</i>	4	
<i>Pedicularis sylvatica</i>	4	
Quadrat	Easting	Northing
65	237046	869242
<b>Species</b>		<b>DOMIN</b>
<i>Molinia caerulea</i>	9	
<i>Sphagnum papillosum</i>	7	
<i>Potentilla erecta</i>	4	
<i>Sphagnum fallax</i>	5	
<i>Deschampsia flexuosa</i>	4	
<i>Pedicularis sylvatica</i>	4	
Quadrat	Easting	Northing
66	237082	869430

Species		DOMIN
<i>Molinia caerulea</i>		5
<i>Potentilla erecta</i>		4
<i>Sphagnum fallax</i>		9
<i>Juncus conglomeratus</i>		5
<i>Juncus effusus</i>		8
Quadrat	Easting	Northing
67	237076	869494
Species		DOMIN
<i>Sphagnum papillosum</i>		4
<i>Erica tetralix</i>		4
<i>Eriophorum angustifolium</i>		4
<i>Carex echinata</i>		7
<i>Potentilla erecta</i>		4
<i>Sphagnum fallax</i>		9
<i>Carex nigra</i>		6
<i>Viola palustris</i>		4
<i>Succisa pratensis</i>		4
<i>Luzula multiflora ssp. Congesta</i>		4
Quadrat	Easting	Northing
68	237120	869801
Species		DOMIN
<i>Sphagnum papillosum</i>		4
<i>Carex echinata</i>		6
<i>Potentilla erecta</i>		4
<i>Carex nigra</i>		8
<i>Juncus effusus</i>		4
<i>Carex pulicaris</i>		4
<i>Ranunculus repens</i>		4
Quadrat	Easting	Northing
69	237124	869838
Species		DOMIN
<i>Molinia caerulea</i>		7
<i>Carex echinata</i>		5
<i>Carex nigra</i>		9
<i>Galium palustre</i>		4
<i>Menyanthes trifoliata</i>		5
Quadrat	Easting	Northing

70	236529	869223
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		5
<i>Cladonia sp.</i>		2
<i>Sphagnum papillosum</i>		8
<i>Eriophorum vaginatum</i>		5
<i>Erica tetralix</i>		5
<i>Eriophorum angustifolium</i>		4
<i>Narthecium ossifragum</i>		3
<i>Potentilla erecta</i>		3
<i>Drosera rotundifolia</i>		2
<i>Carex pulicaris</i>		3
<i>Aulacomnium palustre</i>		2
<i>Polygala serpyllifolia</i>		1
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
71	236543	869260
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		4
<i>Sphagnum capillifolium</i>		4
<i>Cladonia sp.</i>		2
<i>Molinia caerulea</i>		6
<i>Sphagnum papillosum</i>		8
<i>Erica tetralix</i>		7
<i>Eriophorum angustifolium</i>		5
<i>Hylocomium splendens</i>		7
<i>Carex echinata</i>		3
<i>Potentilla erecta</i>		2
<i>Pleurozium schreberi</i>		2
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
72	236567	869139
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		7
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		5
<i>Eriophorum vaginatum</i>		6
<i>Erica tetralix</i>		4

<i>Eriophorum angustifolium</i>	5	
<i>Narthecium ossifragum</i>	2	
<i>Drosera rotundifolia</i>	2	
Quadrat	Easting	Northing
73	236661	869091
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	8	
<i>Cladonia sp.</i>	5	
<i>Trichophorum cespitosum</i>	6	
<i>Eriophorum vaginatum</i>	7	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	2	
<i>Hypnum jutlandicum</i>	4	
<i>Drosera rotundifolia</i>	3	
<i>Sphagnum cuspidatum</i>	3	
Quadrat	Easting	Northing
74	236726	868976
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	8	
<i>Cladonia sp.</i>	3	
<i>Sphagnum papillosum</i>	5	
<i>Eriophorum vaginatum</i>	8	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	2	
<i>Narthecium ossifragum</i>	4	
<i>Pleurozium schreberi</i>	2	
<i>Empetrum nigrum</i>	3	
<i>Drosera rotundifolia</i>	3	
<i>Aulacomnium palustre</i>	2	
Quadrat	Easting	Northing
75	236814	868956
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	8	
<i>Cladonia sp.</i>	7	
<i>Trichophorum cespitosum</i>	7	

<i>Eriophorum vaginatum</i>	5	
<i>Racomitrium lanuginosum</i>	4	
<i>Eriophorum angustifolium</i>	4	
<i>Hypnum jutlandicum</i>	2	
<i>Empetrum nigrum</i>	2	
<i>Drosera rotundifolia</i>	2	
Quadrat	Easting	Northing
76	237158	869447
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	5	
<i>Cladonia sp.</i>	5	
<i>Trichophorum cespitosum</i>	4	
<i>Sphagnum papillosum</i>	7	
<i>Eriophorum vaginatum</i>	6	
<i>Erica tetralix</i>	5	
<i>Racomitrium lanuginosum</i>	3	
<i>Eriophorum angustifolium</i>	4	
3.2.16 <i>Narthecium ossifragum</i>	3	
3.2.17 <i>Drosera rotundifolia</i>	3	
3.2.18 <i>Sphagnum cuspidatum</i>	2	
Quadrat	Easting	Northing
77	237186	869496
Species	DOMIN	
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	7	
<i>Trichophorum cespitosum</i>	5	
<i>Sphagnum papillosum</i>	4	
<i>Eriophorum vaginatum</i>	6	
<i>Narthecium ossifragum</i>	4	
<i>Empetrum nigrum</i>	2	
<i>Drosera rotundifolia</i>	2	
Quadrat	Easting	Northing
78	237328	869723
Species	DOMIN	
<i>Calluna vulgaris</i>	4	

<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	4	
<i>Trichophorum cespitosum</i>	4	
<i>Sphagnum papillosum</i>	7	
<i>Eriophorum vaginatum</i>	7	
<i>Erica tetralix</i>	5	
<i>Narthecium ossifragum</i>	3	
<i>Myrica gale</i>	4	
<i>Empetrum nigrum</i>	2	
<i>Drosera rotundifolia</i>	3	
Quadrat	Easting	Northing
79	237461	869604
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	7	
<i>Sphagnum capillifolium</i>	8	
<i>Cladonia sp.</i>	5	
<i>Trichophorum cespitosum</i>	5	
<i>Eriophorum vaginatum</i>	8	
<i>Erica tetralix</i>	5	
<i>Eriophorum angustifolium</i>	2	
<i>Narthecium ossifragum</i>	4	
<i>Hypnum jutlandicum</i>	2	
<i>Empetrum nigrum</i>	2	
<i>Drosera rotundifolia</i>	2	
Quadrat	Easting	Northing
80	237505	869508
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>	5	
<i>Sphagnum capillifolium</i>	4	
<i>Cladonia sp.</i>	7	
<i>Trichophorum cespitosum</i>	6	
<i>Sphagnum papillosum</i>	5	
<i>Eriophorum vaginatum</i>	4	
<i>Eriophorum angustifolium</i>	4	
<i>Narthecium ossifragum</i>	6	
<i>Empetrum nigrum</i>	7	
<i>Drosera rotundifolia</i>	3	
Quadrat	Easting	Northing

81	237853	869622
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		7
<i>Cladonia sp.</i>		4
<i>Trichophorum cespitosum</i>		6
<i>Sphagnum papillosum</i>		5
<i>Eriophorum vaginatum</i>		6
<i>Erica tetralix</i>		5
<i>Eriophorum angustifolium</i>		5
<i>Narthecium ossifragum</i>		4
<i>Myrica gale</i>		5
<i>Drosera rotundifolia</i>		2
<i>Sphagnum cuspidatum</i>		4
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
82	238411	869306
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		5
<i>Sphagnum capillifolium</i>		7
<i>Cladonia sp.</i>		4
<i>Trichophorum cespitosum</i>		4
<i>Sphagnum papillosum</i>		6
<i>Eriophorum vaginatum</i>		7
<i>Erica tetralix</i>		5
<i>Eriophorum angustifolium</i>		2
<i>Hypnum jutlandicum</i>		2
<i>Drosera rotundifolia</i>		2
<i>Vaccinium myrtillus</i>		2
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
83	238336	869359
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		6
<i>Sphagnum capillifolium</i>		6
<i>Cladonia sp.</i>		5
<i>Trichophorum cespitosum</i>		4
<i>Eriophorum vaginatum</i>		7
<i>Erica tetralix</i>		5
<i>Racomitrium lanuginosum</i>		4

<i>Eriophorum angustifolium</i>	4
<i>Narthecium ossifragum</i>	4
<i>Hypnum jutlandicum</i>	2
<i>Empetrum nigrum</i>	2
<i>Drosera rotundifolia</i>	2
<b>Quadrat</b>	<b>Easting</b>
84	238150
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	7
<i>Sphagnum capillifolium</i>	7
<i>Cladonia sp.</i>	4
<i>Molinia caerulea</i>	4
<i>Eriophorum vaginatum</i>	6
<i>Erica tetralix</i>	4
<i>Eriophorum angustifolium</i>	4
<i>Hylocomium splendens</i>	4
<i>Narthecium ossifragum</i>	2
<i>Myrica gale</i>	4
<i>Hypnum jutlandicum</i>	4
<i>Potentilla erecta</i>	3
<i>Drosera rotundifolia</i>	2
<b>Quadrat</b>	<b>Easting</b>
85	238342
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	5
<i>Sphagnum capillifolium</i>	7
<i>Cladonia sp.</i>	4
<i>Trichophorum cespitosum</i>	5
<i>Molinia caerulea</i>	4
<i>Sphagnum papillosum</i>	5
<i>Eriophorum vaginatum</i>	7
<i>Erica tetralix</i>	5
<i>Myrica gale</i>	5
<i>Drosera rotundifolia</i>	2
<b>Quadrat</b>	<b>Easting</b>
86	238226
<b>Species</b>	<b>DOMIN</b>
<i>Calluna vulgaris</i>	5

<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	5	
<i>Eriophorum vaginatum</i>	7	
<i>Erica tetralix</i>	4	
<i>Racomitrium lanuginosum</i>	4	
<i>Narthecium ossifragum</i>	4	
<i>Drosera rotundifolia</i>	2	
<i>Sphagnum magellanicum</i>	4	
Quadrat	Easting	Northing
87	238071	869504
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	5	
<i>Sphagnum papillosum</i>	5	
<i>Eriophorum vaginatum</i>	7	
<i>Erica tetralix</i>	4	
<i>Narthecium ossifragum</i>	3	
<i>Hypnum jutlandicum</i>	3	
<i>Drosera rotundifolia</i>	2	
Quadrat	Easting	Northing
88	236391	869336
Species	DOMIN	
<i>Calluna vulgaris</i>	9	
<i>Cladonia sp.</i>	7	
<i>Trichophorum cespitosum</i>	5	
<i>Hylocomium splendens</i>	7	
<i>Hypnum jutlandicum</i>	5	
<i>Pleurozium schreberi</i>	4	
Quadrat	Easting	Northing
89	236973	868643
Species	DOMIN	
<i>Calluna vulgaris</i>	9	
<i>Sphagnum capillifolium</i>	7	
<i>Molinia caerulea</i>	4	
<i>Sphagnum papillosum</i>	6	
<i>Eriophorum vaginatum</i>	5	
<i>Erica tetralix</i>	2	

<i>Hylocomium splendens</i>	5	
<i>Carex echinata</i>	3	
<i>Pleurozium schreberi</i>	2	
<i>Drosera rotundifolia</i>	3	
<i>Rhytidadelphus loreus</i>	2	
<i>Aulacomnium palustre</i>	2	
Quadrat	Easting	Northing
90	237150	868566
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	4	
<i>Trichophorum cespitosum</i>	5	
<i>Eriophorum vaginatum</i>	7	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	2	
<i>Narthecium ossifragum</i>	2	
<i>Hypnum jutlandicum</i>	4	
Quadrat	Easting	Northing
91	237648	868489
Species	DOMIN	
<i>Calluna vulgaris</i>	8	
<i>Cladonia sp.</i>	5	
<i>Trichophorum cespitosum</i>	5	
<i>Molinia caerulea</i>	4	
<i>Erica tetralix</i>	4	
<i>Hylocomium splendens</i>	7	
<i>Potentilla erecta</i>	2	
<i>Juncus squarrosus</i>	2	
<i>Pleurozium schreberi</i>	4	
<i>Dicranum scoparium</i>	2	
<i>Sphagnum tenellum</i>	2	
Quadrat	Easting	Northing
92	237926	868587
Species	DOMIN	
<i>Calluna vulgaris</i>	7	
<i>Sphagnum capillifolium</i>	4	
<i>Cladonia sp.</i>	7	

<i>Trichophorum cespitosum</i>	5	
<i>Molinia caerulea</i>	7	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	2	
<i>Potentilla erecta</i>	2	
<i>Pleurozium schreberi</i>	2	
Quadrat	Easting	Northing
93	237812	860632
Species	DOMIN	
<i>Calluna vulgaris</i>	7	
<i>Sphagnum capillifolium</i>	7	
<i>Cladonia sp.</i>	7	
<i>Trichophorum cespitosum</i>	4	
<i>Molinia caerulea</i>	4	
<i>Eriophorum vaginatum</i>	2	
<i>Erica tetralix</i>	2	
<i>Eriophorum angustifolium</i>	2	
<i>Hylocomium splendens</i>	5	
<i>Narthecium ossifragum</i>	2	
<i>Myrica gale</i>	4	
<i>Carex echinata</i>	4	
<i>Pleurozium schreberi</i>	3	
<i>Drosera rotundifolia</i>	2	
<i>Polygala serpyllifolia</i>	1	
Quadrat	Easting	Northing
94	237599	868710
Species	DOMIN	
<i>Calluna vulgaris</i>	6	
<i>Sphagnum capillifolium</i>	6	
<i>Trichophorum cespitosum</i>	7	
<i>Molinia caerulea</i>	2	
<i>Erica tetralix</i>	4	
<i>Eriophorum angustifolium</i>	2	
<i>Narthecium ossifragum</i>	2	
<i>Carex echinata</i>	5	
<i>Hypnum jutlandicum</i>	2	
<i>Potentilla erecta</i>	4	
<i>Juncus squarrosum</i>	2	

<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
95	237445	869043
<b>Species</b>		<b>DOMIN</b>
<i>Calluna vulgaris</i>		8
<i>Sphagnum capillifolium</i>		5
<i>Cladonia sp.</i>		7
<i>Trichophorum cespitosum</i>		5
<i>Molinia caerulea</i>		7
<i>Erica tetralix</i>		2
<i>Narthecium ossifragum</i>		2
<i>Carex echinata</i>		4
<i>Hypnum jutlandicum</i>		4
<i>Potentilla erecta</i>		2
<b>Quadrat</b>	<b>Easting</b>	<b>Northing</b>
96	237621	869148
<b>Species</b>		<b>DOMIN</b>
<i>Molinia caerulea</i>		5
<i>Carex echinata</i>		8
<i>Potentilla erecta</i>		2
<i>Carex nigra</i>		2
<i>Juncus conglomeratus</i>		4
<i>Viola palustris</i>		2
<i>Sphagnum palustre</i>		4

## ANNEX 3: TARGET NOTES

Target Note	Grid reference	Description	Photograph
TN1	NH 35963 67482	Extensive area of blanket bog on watershed at southern end of site. Some erosion of peat causing gullies. Dominant heather and deergrass.	
TN2	NH 36624 69244	Area of blanket bog, with erosion gullies in the peat, showing at least 2 m depth of peat present. Surrounding surface drier here than elsewhere with increased <i>Cladonia</i> lichen and deergrass. Occasional poaching by cattle or deer.	

TN3	NH 36740 69042	Eroded peat, not as deeply incised as TN2 to 1.5 m.	
TN4	NH 37158 69418	Wet blanket bog area with frequent small pools and some erosion gullies developing to 1 m depth. Greater amount of hare's tail cottongrass.	

TN5	NH 69329	38288	Blanket bog area at north east end of enclosed plantation woodland. Scattered hummocks provide dryer ground (wet heath) and have been planted with Scots pine and Silver birch, now forming young trees. Also scattered smaller self-seeded trees present, mainly silver birch with occasional alder.	
TN6	NH 69459	38145	Wet area within blanket bog approximately 50 m x 100 m, dominated by slender sedge. Cross-leaved heath and bog myrtle are frequent, along with occasional orchids, bog asphodel, round leaved sundew and sphagnum.	

TN7	NH 38323 69504	<p>Very shallow pond on course of a sluggish small stream issuing from the wet area described in TN15. Blanket bog area with over 0.5 m depth of peat. Mainly bare peat with occasional bogbean, common cottongrass, bog pondweed and sedges and rushes.</p> <p>Surrounded by typical blanket bog community of heather, cross-leaved heath, bog myrtle, hare's-tail cottongrass and sphagnum.</p>	
-----	-------------------	---	--

TN8	NH 36723 68759	Enclosed plantation woodland area, young stands of either Scots Pine or silver birch on underlying and surrounded by wet heath ground layer community. In some areas of this woodland, deeper pockets of peat form blanket bog.	
-----	-------------------	---	---

TN9	NH 37309 68574	Area of blanket bog on the higher ground of the woodland area. This bog grades to wet heath communities on the steeper sloping areas with shallower soils. Occasional gullies in peat to 1 m depth.	
-----	-------------------	---	--

TN10	NH 68653	37307	A gully within the blanket bog contains a small area of mire vegetation dominated by soft rush and <i>Sphagnum fallax</i> .	
------	-------------	-------	---	--

TN11	NH 68470	37455	Scat – possibly fox.	
------	-------------	-------	----------------------	---

TN12	NH 37621 69148	Mire community on flush, similar to many found on flushes and adjacent to watercourses on the site. Dominant purple moor grass and star sedge, abundant <i>Sphagnum palustre</i> and compact rush, occasional tormentil, black sedge and marsh violet.	
------	-------------------	--	--

TN13	NH 67809	36692	Pond with bottle sedge, black sedge, bogbean and common cottongrass.	
TN14	NH 68111	36062	Water vole droppings on stone in small, fast flowing stream. Greenish, no odour, around 1 cm in length.	

TN15	NH 70319	38293	Small semi-natural broad-leaved woodland (8 m tall). Birch, alder, rowan, grey willow. Understory grass and bracken.	
TN16	NH 70208	38460	Old building. Looks like still in use. No obvious holes in roof or under eaves. Moderate bat potential.	

TN17	NH 69984	38692 Semi-natural broad-leaved woodland (8 m tall). Birch, alder, rowan, grey willow. Understory ling, purple moorgrass, bracken, compact rush, soft rush, bog myrtle, devil's-bit scabious, Yorkshire-fog, wild angelica.	
TN18	NH 69524	39327 Similar to TN17.	
TN19	NH 69356	39691 Similar to TN17, continuation of broad-leaved semi-natural woodland.	Photograph not taken.

TN20	NH 69441	39726	Blanket bog.	
TN21	NH 70343	38281	Wet heath. Ling, purple moorgrass, <i>Sphagnum capillifolium</i> , cross-leaved heath, heath rush, deer grass, bilberry, <i>Hypnum jutlandicum</i> , hard fern.	