

# Appendix I – Ecological Monitoring Quadrat Data

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OF THE

## 2019 Ecological Study of Visitor Movement Areas

### ENVIRONMENTAL SURVEYING AND MONITORING

OF THE

### WILD ATLANTIC WAY OPERATION/AL PROGRAMME

**for:**

**Fáilte Ireland**

88-95 Amiens Street  
Dublin 1



**Fáilte Ireland**  
National Tourism Development Authority

**by:**

**CAAS Ltd.**

1st Floor,  
24-26 Ormond Quay,  
Dublin 7



**September 2019**

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG1

**Quadrat Description:** Grassy area adjacent to parking spaces by fence.

**Quadrat Comments:** none

**Habitat Type:** GS2 Grassy verge

**Quadrat Type:** Core

**Quadrat Type Comments:** Visitors walked in this area to access cars.

**Quadrat Number:** 1

**X Coordinate:** 51.33N

**Y Coordinate:** 9.50W

**Survey Date:** 30/05/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** 5-10cm

**Slope Degrees:** 2

**Aspect:** South

**Water Table Depth:** Below

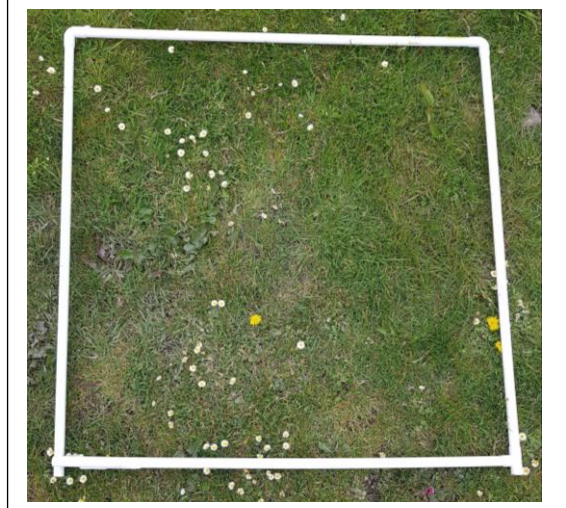
**Comments on Hydrology:** None

**Quadrat Management:** Carpark

**Adjacent Landuse:** visitor use, grazing, residential

**Grazing Comments:** Sheep commonage

**General Faunal Observations:** Many sheep and some cattle observed at the site



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 98

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 2

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
Grass species too short to ID	N/A	8
<i>Festuca rubra</i>	Red Fescue	5
<i>Rumex</i> sp.	Dock	3
<i>Ranunculus</i> sp.	Buttercup	2
<i>Bellis perennis</i>	Daisy	3

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG2

**Quadrat Description:** Gravelly area between café and picnic benches

**Quadrat Comments:** none

**Habitat Type:** BL3 artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 2

**X Coordinate:** 51.3244

**Y Coordinate:** 9.49354

**Survey Date:** 30/05/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** South N/A

**Water Table Depth:** Below

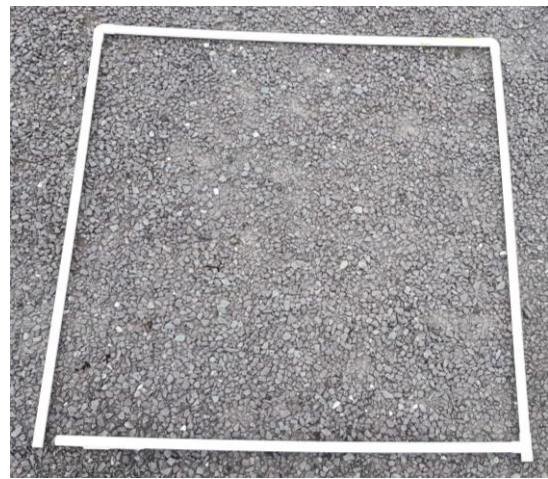
**Comments on Hydrology:** None

**Quadrat Management:** Picnic area

**Adjacent Landuse:** visitor use, grazing, residential

**Grazing Comments:** Sheep commonage

**General Faunal Observations:** Many sheep and some cattle observed at the site



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover:

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 gravel

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

Species Latin Name	Species English Name	Species Cover (Domin)
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N/A

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG3

**Quadrat Description:** Immediately adjacent to SH Loop path not far from carpark.

**Quadrat Comments:** none

**Habitat Type:** HHI & BL1 Dry heath and stone wall mosaic

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 51.54496

**Y Coordinate:** 9.8297

**Survey Date:** 30/05/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Firm

**Substrate Depth:** 5-10cm

**Slope Degrees:** 29

**Aspect:** SE

**Water Table Depth:** Below

**Comments on Hydrology:** None

**Quadrat Management:** Waymarked unsurfaced trail

**Adjacent Landuse:** visitor use, grazing, residential

**Grazing Comments:** Sheep commonage

**General Faunal Observations:** Sheep observed grazing nearby



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover: 50

Herb Grass Cover: 10

Bryophyte Cover:

Litter Cover:

Algae Cover: 20 (on rocks)

Rock Cover: 40

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-10cm

Height of Tree layer (cm): 5-10cm

Height of Shrub Layer (cm): 5-10cm

Height Herb Layer (cm): 5-140cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Ulex gallii</i>	Furze	9
<i>Festuca rubra</i>	Red Fescue	5
<i>Agrostis sp.</i>	Bent grass	5
<i>Potentilla erecta</i>	Tormentil	3
<i>Polygala serpyllifolia</i>	Heath milkwort	3

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG4

**Quadrat Description:** Depression adjacent to but off the SH looped trail.

**Quadrat Comments:** none

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Secondary/Tertiary (check GIS map)

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 51.544170

**Y Coordinate:** 9.831831

**Survey Date:** 30/05/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Soft

**Substrate Depth:** >15cm

**Slope Degrees:** 0

**Aspect:** N/A

**Water Table Depth:** Below

**Comments on Hydrology:** Very damp depressions in between areas of dry heath



**Quadrat Management:** None

**Adjacent Landuse:** visitor use, grazing

**Grazing Comments:** Sheep commonage

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 40

Herb Grass Cover: 40

Bryophyte Cover: 30

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-20cm

Height of Tree layer (cm): 5-10cm

Height of Shrub Layer (cm): 1-10cm

Height Herb Layer (cm): 5-20cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Cannula vulgaris</i>	Ling	7
<i>Erica tetralix</i>	Cross-leaved heath	7
<i>Sphagnum spp.</i>	Sphagnum mosses	5
<i>Eriophorum angustifolium</i>	Common cottongrass	4
<i>Molinia caerulea</i>	Purple moor grass	7
<i>Carex spp.</i>	Sedges	4
<i>Polygala serpyllifolia</i>	Heath milkwort	2
<i>Potentilla erecta</i>	Tormentil	2

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG5

**Quadrat Description:** Desire line off marked Lough Aikeen viewing point trail.

**Quadrat Comments:** none

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Visitors were observed walking off the marked trail to other viewpoints. Desire lines running along ridge parallel to mail trail. Very poor condition. Compaction of vegetation and erosion of peat.

**Quadrat Number:** 5

**X Coordinate:** 51.543731

**Y Coordinate:** -9.8364

**Survey Date:** 30/05/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Fairy firm

**Substrate Depth:**

**Slope Degrees:** 5

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** Damp although located approx. 10-15m above Aikeen Lake

**Quadrat Management:** Adjacent to waymarked trail

**Adjacent Landuse:** visitor use, grazing

**Grazing Comments:** Sheep commonage

**General Faunal Observations:**



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 50

Tree Cover:

Shrub Cover: <4

Herb Grass Cover: 45

Bryophyte Cover: <4

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 50

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <3cm

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Molinia caerulea</i>	Purple moor grass	9
<i>Salix repens</i>	Creeping Willow	4
<i>Bryophyta sp.</i>	Mosses	4

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG6

**Quadrat Description:** Close to cliff edge

**Quadrat Comments:** Cliff top, heavily grazed, very short sward.

**Habitat Type:** GS3 dry humic grassland

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 6

**X Coordinate:** 51.3217

**Y Coordinate:** -9.50328

**Survey Date:** 30/05/19

**Surveyor:** Aoibheann

**Substrate:** Soil & rock

**Stability:** Fairy firm

**Substrate Depth:** 5cm

**Slope Degrees:** 3

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Commonage sheep grazing

**Adjacent Landuse:** visitor use, grazing

**Grazing Comments:** Sheep commonage

**General Faunal Observations:** Sheep observed grazing, cattle nearby, chough, fulmar, wheatear observed.



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <3cm

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Agrostis sp.</i>	Bent grass	7
<i>Festuca sp.</i>	Fescue	7
<i>Armenia maritima</i>	Sea thrift	7
<i>Plantago coronopus</i>	Buckshorn Plantain	5
<i>Cerastium fontanum</i>	Common mouse-ear	2
<i>Trifolium sp.</i>	Clover	5

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG7

**Quadrat Description:** Land above cliffs near lighthouse

**Quadrat Comments:** Damp depression

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Good condition, but adjacent to tramped desire line

**Quadrat Number:** 7

**X Coordinate:** 51.3245

**Y Coordinate:** -9.5048

**Survey Date:** 31/05/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Fairy firm

**Substrate Depth:** 10-15cm?

**Slope Degrees:** 12

**Aspect:** SE

**Water Table Depth:** Below

**Comments on Hydrology:** Damp depressions in between areas of dry heath



**Quadrat Management:** None/commonage sheep grazing

**Adjacent Landuse:** visitor use, grazing. Trampled desire lines to viewing points.

**Grazing Comments:** Flock of >20 sheep present.

**General Faunal Observations:** Rock pipit *Anthus petrosus* observed

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 40

Herb Grass Cover: 60

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <3cm

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Molinia caerulea</i>	Purple moor grass	9
<i>Canula vulgaris</i>	Ling/Heather	6
<i>Erica tetralix</i>	Cross-leaved heath	3
<i>Carex spp.</i>	Sedges	3
<i>Juncus spp.</i>	Rushes	3
<i>Dactylorhiza maculata</i>	Heath spotted-orchid	3
<i>Eriophorum angustifolium</i>	Common cottongrass	2
<i>Potentilla erecta</i>	Tormentil	2



**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG8

**Quadrat Description:** Adjacent to return trail on SH loop, located in the valley.

**Quadrat Comments:**

**Habitat Type:** HH1 Dry Heath

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Good condition.

**Quadrat Number:** 8

**X Coordinate:** 51.5439

**Y Coordinate:** -9.8444

**Survey Date:** 31/05/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Firm

**Substrate Depth:** 5-10cm?

**Slope Degrees:** 34

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** None/commonage sheep grazing

**Adjacent Landuse:** visitor use, grazing. Adjacent to SH loop trail.

**Grazing Comments:** Less intensively grazed than other side of loop

**General Faunal Observations:** Stonechat (*Saxicola torquata*) observed

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 50

Herb Grass Cover: 50

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-15cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): 5-15cm

Height Herb Layer (cm): 5-15cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Ulex gallii</i>	Furze	5
<i>Canula vulgaris</i>	Ling/Heather	5
<i>Festuca sp.</i>	Fescue grass	5
<i>Poa asp.</i>	Meadow grass	4
<i>Danthonia decumbens</i>	Heath grass	4
<i>Pteridium sp.</i>	Bracken/Fern	4
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	3
<i>Pedicularis sylvatica</i>	Lousewort	2
<i>Trifolium sp.</i>	Clover	2

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG9

**Quadrat Description:** Path adjacent to derelict cottage on return part of loop trail.

**Quadrat Comments:**

**Habitat Type:** GS3 Dry humic Grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Poor condition – as to be expected given it is trail. Compaction of vegetation and erosion of soil. Exposed rock.

**Quadrat Number:** 9

**X Coordinate:** 51.32539

**Y Coordinate:** -9.4943

**Survey Date:** 31/05/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 26

**Aspect:** NE

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** Waymarked trail

**Adjacent Landuse:** Visitor use, grazing. Was an old settlement/farmstead.

**Grazing Comments:** Sheep present in area.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 20

Tree Cover:

Shrub Cover:

Herb Grass Cover: 20

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 80

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca sp.</i>	Fescue grass	5
<i>Poa asp.</i>	Meadow grass	8

**Site:** Sheepshead Lighthouse

**Quadrat Number:** QSHAG10

**Quadrat Description:** Rocky ledge border on return loop trail.

**Quadrat Comments:** None

**Habitat Type:** BL1 Stone Wall/GS2 grassy verge mosaic

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Good condition with diverse flora. Old stone wall bordering unimproved pasture and looped trail. Bottom level with field, top level with trail.

**Quadrat Number:**  
10

**X Coordinate:** 51.3254

**Y Coordinate:** -9.4936

**Survey Date:** 31/05/19

**Surveyor:** Aoibheann

**Substrate:** Rock/Soil

**Stability:** A little unstable close to edge, path firm

**Substrate Depth:**

**Slope Degrees:** 12.7

**Aspect:** N

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** A dry-stone wall boundary between field and trail.

**Adjacent Landuse:** Visitor use, grazing.

**Grazing Comments:** Sheep present in area.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 70

Tree Cover:

Shrub Cover:

Herb Grass Cover: 35

Bryophyte Cover: 35

Litter Cover:

Algae Cover:

Rock Cover: 30

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Bryophyta spp.</i>	Moss species	7
<i>Sedum anglicum</i>	English stonecrop	7
<i>Pteridium sp.</i>	Bracken/fern	2
<i>Festuca sp.</i>	Fescue grass	5
<i>Poa sp.</i>	Meadow grass	4
<i>Trifolium sp.</i>	Clover	2
<i>Potentilla erecta</i>	Tormentil	2

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG1

**Quadrat Description:** Beside Discovery Point marker in south-facing carpark

**Quadrat Comments:** None

**Habitat Type:** BL3 Carpark

**Quadrat Type:** Core

**Quadrat Type Comments:** Poor condition.

**Quadrat Number:** 1

**X Coordinate:** 51.595275

**Y Coordinate:** -9.710823

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 4

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Carpark.

**Adjacent Landuse:** Visitor use.

**Grazing Comments:** None apparent

**General Faunal Observations:** Hooded crows (*Corvus cornix*) observed.



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 15

Tree Cover:

Shrub Cover:

Herb Grass Cover: 35

Bryophyte Cover: 35

Litter Cover:

Algae Cover:

Rock Cover: 85

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Poa annua</i>	Annual meadow grass	7
<i>Trifolium repens</i>	White clover	5
<i>Taraxacum sp.</i>	Dandelion	5

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG2

**Quadrat Description:** Beside Discovery Point marker in north-facing carpark

**Quadrat Comments:** None

**Habitat Type:** BL3 Carpark

**Quadrat Type:** Core

**Quadrat Type Comments:** Poor condition.

**Quadrat Number:** 2

**X Coordinate:** 51.595739

**Y Coordinate:** -9.710852

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 0

**Aspect:** N/A

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** Carpark.

**Adjacent Landuse:** Visitor use.

**Grazing Comments:** None apparent

**General Faunal Observations:** Hooded crows (*Corvus cornix*) observed.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 40

Tree Cover:

Shrub Cover:

Herb Grass Cover: 35

Bryophyte Cover: 35

Litter Cover:

Algae Cover:

Rock Cover: 60

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Plantago lanceolata</i>	Ribwort plantain	9
<i>Poa annua</i>	Annual meadow grass	5
<i>Bellis perennis</i>	Daisy	5
<i>Festuca sp.</i>	Fescue grass	4
<i>Taraxacum sp.</i>	Dandelion	4

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG3

**Quadrat Description:** On trail at first waypoint along Peakeen trail.

**Quadrat Comments:** Heath degraded due to location on walking trail.

**Habitat Type:** HH3 wet heath/ER1 rocky outcrop mosaic

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 51.595311

**Y Coordinate:** -9.712279

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock/Peat

**Stability:** Firm

**Substrate Depth:** Peat 5-10cm?

**Slope Degrees:** 13

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** Dry that day but became very wet the following day after rain.



**Quadrat Management:** Walking trail.

**Adjacent Landuse:** Visitor use.

**Grazing Comments:** None observed although land is designated grazing commonage.

**General Faunal Observations:** Skylark (*Alauda arvensis*) and swallow (*Hirundo rustica*) observed.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover: 10

Herb Grass Cover: 25

Bryophyte Cover:

Litter Cover:

Algae Cover: lichen on rocky outcrops

Rock Cover: 50

Bare Peat/Soil Cover: 20

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca rubra</i>	Red fescue grass	8
<i>Molinia caerulea</i>	Purple moor grass	5
<i>Ulex gallii</i>	Furze	4
<i>Cannula vulgaris</i>	Ling/heather	4

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG4

**Quadrat Description:** Rock exposure adjacent to road and below Pieta statue.

**Quadrat Comments:** Very florally diverse

**Habitat Type:** ER1 rocky outcrop

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Sandwiched in between areas of core, but slope prevents movement

**Quadrat Number:** 4

**X Coordinate:** 51.595413

**Y Coordinate:** -9.711091

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 50

**Aspect:** E

**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None

**Adjacent Landuse:** Road, visitor use.

**Grazing Comments:** None observed.

**General Faunal Observations:**



**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 75

Tree Cover:

Shrub Cover: 30

Herb Grass Cover: 5%

Bryophyte Cover: 40

Litter Cover:

Algae Cover: lichen on rock

Rock Cover: 25

Bare Peat/Soil Cover: 20

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Bryophyta spp.</i>	Various moss species	7
<i>Sedum anglicum</i>	English stonecrop	5
<i>Thymus polytrichus/praecox</i>	Wild thyme	5
<i>Polypodium vulgare</i>	Common polyploidy	4
<i>Trifolium dubium</i>	Lesser trefoil	2
<i>Festuca sp.</i>	Fescue grass	2
<i>Galium sp.</i>	Bedstraw	2

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG5

**Quadrat Description:** Unmarked trail from Discovery Point (south-facing carpark) to Seefin summit and loop walk.

**Quadrat Comments:** Not waymarked but clearly used by walkers. Path has eroded heath down to bare peat/rock substrate 1.5-2ft across. Poor condition.

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Secondary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 5

**X Coordinate:** 51.595901

**Y Coordinate:** -9.708750

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat/Rock

**Stability:** Fairly firm/firm

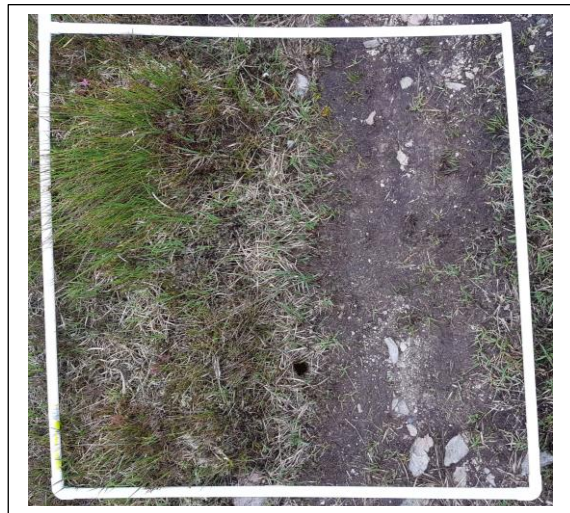
**Substrate Depth:** 10cm?

**Slope Degrees:** 7

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** None. Unofficial trail linking to Seefin summit/loop trail

**Adjacent Landuse:** Visitor use. Grazing?

**Grazing Comments:** None observed.

**General Faunal Observations:** Badger latrine located approx. 5m away from path.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 55

Tree Cover:

Shrub Cover: 30

Herb Grass Cover: 5%

Bryophyte Cover: 40

Litter Cover:

Algae Cover: lichen on rock

Rock Cover: 5

Bare Peat/Soil Cover: 40

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Juncus squarrosus</i>	Heath rush	6
<i>Molinia caerulea</i>	Purple moor grass	5
<i>Canula vulgaris</i>	Ling/heather	4
<i>Erica tetralix</i>	Cross-leaved heather	4
<i>Cladonia portenosia</i>	Reindeer lichen	4
<i>Byrophyta spp.</i>	Moss species	4
<i>Pedicularis sylvatica</i>	Lousewort	3
<i>Tussilago farfara</i>	Colt's-foot	3



**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG6

**Quadrat Description:** Roadside grassy verge across from north-facing carpark

**Quadrat Comments:**

**Habitat Type:** GS2 grassy verge

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 6

**X Coordinate:** 51.595846

**Y Coordinate:** -9.710595

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 10

**Aspect:** NW

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** None. Roadside verge.

**Adjacent Landuse:** Visitor use – walking/parking, roadway

**Grazing Comments:** None observed.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover: 5

Herb Grass Cover: 85

Bryophyte Cover:

Litter Cover:

Algae Cover: lichen on rock

Rock Cover: 5

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca rubra</i>	Red fescue	7
<i>Poa spp.</i>	Meadow grasses	5
<i>Trifolium repens</i>	White clover	5
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	4
<i>Dactylis glomerata</i>	Cock's foot	4
<i>Holcus lanatus</i>	Yorkshire fog	4
<i>Canula vulgaris</i>	Ling/heather	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Bella perennis</i>	Daisy	3
<i>Trifolium repens</i>	White clover	2

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG7

**Quadrat Description:** Between trail and 3<sup>rd</sup> waymarker on Peakeen Ridge trail.

**Quadrat Comments:** Very patchy, lots of erosion, vegetation low-growing.

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Secondary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 7

**X Coordinate:** 51.594453

**Y Coordinate:** -9.714994

**Survey Date:** 01/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Fairly firm

**Substrate Depth:** 10-15cm

**Slope Degrees:** 8

**Aspect:** SE

**Water Table Depth:** Below

**Comments on Hydrology:**



**Quadrat Management:** Waymarked trail.

**Adjacent Landuse:** Visitor use, grazing.

**Grazing Comments:** None observed.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover: 30

Herb Grass Cover: 30

Bryophyte Cover: 4

Litter Cover:

Algae Cover: lichen on rock 4

Rock Cover: 40

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Juncus squarrosus</i>	Heath rush	6
<i>Molinia caerulea</i>	Purple moor grass	6
<i>Canula vulgaris</i>	Ling/heather	6
<i>Erica tetralix</i>	Cross-leaved heath	5
<i>Carex spp.</i>	Sedges	5
<i>Ulex gallii</i>	Furze	4
<i>Tussilago farfara</i>	Colt's-foot	4
<i>Eriophorum angustifolium</i>	Common cottongrass	3
<i>Potentilla erecta</i>	Tormentil	2
<i>Pedicularis sylvatica</i>	Lousewort	3

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG8

**Quadrat Description:** Seefin hill top looking down on Discovery Point.

**Quadrat Comments:** Rain overnight means much of this trail is wet/waterlogged.

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 8

**X Coordinate:** 51.597592

**Y Coordinate:** -9.7035

**Survey Date:** 02/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat & Rock

**Stability:** Fairly firm

**Substrate Depth:** 10-15cm

**Slope Degrees:** 11

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** Rain overnight, trail very wet.



**Quadrat Management:** Trail, Not waymarked.

**Adjacent Landuse:** Visitor use, grazing.

**Grazing Comments:** None observed.

**General Faunal Observations:** Skylark, Rock pipit observed.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 75

Tree Cover:

Shrub Cover: 50

Herb Grass Cover: 20

Bryophyte Cover: 15

Litter Cover:

Algae Cover: lichen 10

Rock Cover: 25

Bare Peat/Soil Cover: 5-10

Open Water Cover:

Height of Vegetation (cm): 5-10cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): 5-10cm

Height Herb Layer (cm): 5-10cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Molinia caerulea</i>	Purple moor grass	5
<i>Canula vulgaris</i>	Ling/heather	7
<i>Carex spp.</i>	Sedges	5
<i>Ulex gallii</i>	Furze	7
<i>Polygala serpyllifolia</i>	Heath milkwort	4
<i>Bryophyta</i>	Moss species on rocks	4
	Lichen species on rocks	4

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG9

**Quadrat Description:** Rocky rib on trail

**Quadrat Comments:** Rain overnight means much of the trail is wet/waterlogged.

**Habitat Type:** HH3/ER1 wet heath/rocky ridge mosaic

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 9

**X Coordinate:** 51.596927

**Y Coordinate:** -9.705774

**Survey Date:** 02/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock & some peat

**Stability:** Firm

**Substrate Depth:** 5-10cm

**Slope Degrees:** 14

**Aspect:** N

**Water Table Depth:** Below

**Comments on Hydrology:** Rain overnight, trail very wet.



**Quadrat Management:** Trail, Not waymarked.

**Adjacent Landuse:** Visitor use, grazing.

**Grazing Comments:** None observed.

**General Faunal Observations:** Dog faeces on trail.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover: 20

Herb Grass Cover: 15

Bryophyte Cover: 20

Litter Cover:

Algae Cover: lichen 30

Rock Cover: 70

Bare Peat/Soil Cover: 5-10

Open Water Cover:

Height of Vegetation (cm): 5-10cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): 5-10cm

Height Herb Layer (cm): 5-10cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Canula vulgaris</i>	Ling/heather	7
<i>Bryophyta</i>	Moss species on rocks	7
	Lichen species on rocks	6
<i>Ulex gallii</i>	Furze	5
<i>Sedum anglicum</i>	English stonecrop	4
<i>Molinia caerulea</i>	Purple moor grass	4
<i>Festuca rubra</i>	Red fescue	4

**Site:** Seefin Viewpoint

**Quadrat Number:** QSVAG10

**Quadrat Description:** Behind signage near Discovery Point in north-facing carpark

**Quadrat Comments:** Lots of trampling here as people climb up to take photos towards Bere Island Very degraded. Land immediately adjacent is wet heath with typical species present – heathers, furze, grasses, sedges, moss, tormentil, heath milkwort, water-filled depression etc. At quadrat however, peat layer has been nearly completely eroded down to expose the rock below.

**Habitat Type:** HH3 wet heath

**Quadrat Type:** Core

**Quadrat Type Comments:** N/A

**Quadrat Number:** 10

**X Coordinate:** 51.595711

**Y Coordinate:** -9.711039

**Survey Date:** 02/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock/peat

**Stability:** Firm

**Substrate Depth:** 0-5cm

**Slope Degrees:** 6

**Aspect:** S

**Water Table Depth:** Below

**Comments on Hydrology:** Rain overnight



**Quadrat Management:** Discovery Point

**Adjacent Landuse:** Visitor parking & walking, roadway, grazing.

**Grazing Comments:** None observed.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 25

Tree Cover:

Shrub Cover:

Herb Grass Cover: 25

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 40

Bare Peat/Soil Cover: 35

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <3cm

Height Herb Layer (cm): <3cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca rubra</i>	Red fescue	9
<i>Molinia caerulea</i>	Purple moor grass	5

**Site:** Durseley Sound

**Quadrat Number:** QDSAG1

**Quadrat Description:** Area in front of carpark with gentle slope. Beneath cable car lines.

**Quadrat Comments:** Close to 2018 DS-Q2 quadrat location. Short sward – trampling?

**Habitat Type:** GS3 Dry humic acid grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Some visitors walking here to take photos etc

**Quadrat Number:** 1

**X Coordinate:** 450736

**Y Coordinate:** 541914

**Survey Date:** 03/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** 5cm

**Slope Degrees:** 11.3

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None

**Adjacent Landuse:** Visitor use & grazing.

**Grazing Comments:** None observed, but sward quite short

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 97

Tree Cover:

Shrub Cover: 27

Herb Grass Cover: 70

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 3

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca ovina</i>	Sheep's fescue	6
<i>Agrostis stolonifera</i>	Creeping bentgrass	6
<i>Canula vulgaris</i>	Ling/heather	5
<i>Taraxacum sp.</i>	Dandelion	5
<i>Bellis perennis</i>	Daisy	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Plantago maritima</i>	Sea plantain	3

**Site:** Durseley Sound

**Quadrat Number:** QDSAG2

**Quadrat Description:** Pinch point between carpark and walking trail style

**Quadrat Comments:** At 2018 DS-Q3 quadrat location

**Habitat Type:** ED2 spoil and bare ground

**Quadrat Type:** Core

**Quadrat Type Comments:** Last year this was sludgy/eroded

**Quadrat Number:** 2

**X Coordinate:** 51.610154

**Y Coordinate:** -10.155434

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 4

**Aspect:** S

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Gravel laid down to prevent further erosion

**Adjacent Landuse:** Visitor use & grazing.

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
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N/A

**Site:** Durseley Sound

**Quadrat Number:** QDSAG3

**Quadrat Description:** Open grassland around beginning of trails beyond style

**Quadrat Comments:** At 2018 DS-Q4 quadrat location

**Habitat Type:** GS3 dry humic grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 51.610410 (51 36 37.5)

**Y Coordinate:** -10.1557?? (10 09 20.6)

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Mineral soil

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 9

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Grazing commonage

**Adjacent Landuse:** Visitor use & grazing

**Grazing Comments:** None observed but sheep and rabbit faeces and very short sward

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5cm

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca ovina</i>	Sheep's fescue	7
<i>Plantago maritima</i>	Sea plantain	6
<i>Chamaemelum nobile</i>	Chamomile	5
<i>Plantago coronopus</i>	Buck's horn plantain	5
<i>Trifolium repens</i>	White clover	4
<i>Agrostis stolonifera</i>	Creeping bentgrass	4
<i>Bellis perennis</i>	Daisy	3



**Site:** Durseley Sound

**Quadrat Number:** QDSAG4

**Quadrat Description:** Heath and grass mosaic in small patches

**Quadrat Comments:** At 2018 DS-Q5 quadrat location

**Habitat Type:** HH1 dry heath/GS3 mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 51.610678

**Y Coordinate:** -10.155236

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Firm

**Substrate Depth:** 5-10

**Slope Degrees:** 20

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** grazing commonage

**Adjacent Landuse:** Visitor use & grazing

**Grazing Comments:** None observed, lots of faeces and very short sward

**General Faunal Observations:**

Wheatear (*Oenanthe oenanthe*)

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 60

Herb Grass Cover: 40

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Shrub Layer (cm): <5cm

Height of Tree layer (cm):

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Erica tetralix</i>	Cross-leaved heath	8
<i>Festuca ovina</i>	Sheep's fescue	6
<i>Molinia caerulea</i>	Purple moor grass	4
<i>Polygalla serpyllifolia</i>	Heath milkwort	3
<i>Potentilla erecta</i>	Tormentil	3
<i>Anagallis tenella</i>	Bog pimpernel	3
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	3
<i>Koeleria macrantha</i>	Crested hair grass	3

**Site:** Durseley Sound

**Quadrat Number:** QDSAG5

**Quadrat Description:** Off but closer to trail, near flat rock & rushes.

**Quadrat Comments:** Near/at 2018 DS-Q6 quadrat location

**Habitat Type:** HH1 dry heath

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 51.611030

**Y Coordinate:** -10.155180

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Firm

**Substrate Depth:** 5-10

**Slope Degrees:** 13

**Aspect:** NW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** grazing commonage

**Adjacent Landuse:** Visitor use & grazing

**Grazing Comments:** None observed, sheep faeces and adjacent sward is short

**General Faunal Observations:**

Wheatear (*Oenanthe oenanthe*), meadow pipit (*Anthus pratensis*), Chough (*Pyrrhocorax*) foraging

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 30

Herb Grass Cover: 70

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-40cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): 10

Height Herb Layer (cm): 5-40

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Luzula multiflora</i>	Heath woodrush	7
<i>Festuca ovina</i>	Sheep's fescue	7
<i>Erica tetralix</i>	Cross-leaved heath	5
<i>Canula vulgaris</i>	Ling	5
<i>Carex panicea</i>	Carnation sedge	4
<i>Molinia caerulea</i>	Purple moor grass	4
<i>Ulex gallii</i>	Furze	4
<i>Koeleria macrantha</i>	Crested-hair grass	4
<i>Trifolium repens</i>	White clover	3

**Site:** Durseys Sound

**Quadrat Number:** QDSAG6

**Quadrat Description:** Behind cable car station, further up.

**Quadrat Comments:** Near 2018 DS-Q7 quadrat location

**Habitat Type:** GS3 dry humic grassland

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 6

**X Coordinate:** 450797

**Y Coordinate:** 542014

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** 5-10

**Slope Degrees:** 10

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None

**Adjacent Landuse:** sheep grazing

**Grazing Comments:** sward very short

**General Faunal Observations:**

Rabbit & sheep faeces

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 90

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 10

Open Water Cover:

Height of Vegetation (cm): <5cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <5cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Molina caerulea</i>	Purple moor grass	6
<i>Festuca ovina</i>	Sheep's fescue	6
<i>Chamaemelum nobile</i>	Chamomile	6
<i>Poa trivialis</i>	Rough meadow grass	5
<i>Plantago coronopus</i>	Buck's horn plantain	5
<i>Plantago maritima</i>	Sea plantain	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Bellis perennis</i>	Daisy	4
<i>Hydrocotyle vulgaris</i>	Marsh pennywort TBC	4

**Site:** Durseley Sound

**Quadrat Number:** QDSAG7

**Quadrat Description:** Behind cable car station, closer to station.

**Quadrat Comments:** Near 2018 DS-Q8 quadrat location

**Habitat Type:** HH1 dry siliceous heath

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Heath rather than grassland

**Quadrat Number:** 7

**X Coordinate:** 450796

**Y Coordinate:** 541994

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Fairly firm

**Substrate Depth:** 10-15

**Slope Degrees:** 30

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None

**Adjacent Landuse:** sheep commonage

**Grazing Comments:** lower levels of grazing than in other areas

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 70

Herb Grass Cover: 30

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-30cm

Height of Tree layer (cm):

Height of Shrub Layer (cm): 5-10cm

Height Herb Layer (cm): 30cm (rushes)

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Ulex gallii</i>	Furze	8
<i>Erica tetralix</i>	Cross-leaved heath	6
<i>Canula vulgaris</i>	Ling/heather	6
<i>Molinia caerulea</i>	Purple moor grass	5
<i>Juncus sp.</i>	Rushes	5
<i>Carex sp.</i>	Sedges	4
<i>Potentilla erecta</i>	Tormentil	3
<i>Thymus polytrichus</i>	Wild thyme	3
<i>Polygala serphyllifolia</i>	Heath milkwort	3

**Site:** Durseley Sound

**Quadrat Number:** QDSAG8

**Quadrat Description:** Upper staff carpark/behind cable car station

**Quadrat Comments:** Near 2018 DS-Q9 quadrat location. Some development since last year. Office and storage shipping containers installed. New footpath from carpark laid. Some waste materials still scattered around.

**Habitat Type:** BL3 Built environment and artificial surfaces.

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 450778

**Y Coordinate:** 541969

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Concrete

**Stability:** Firm

**Substrate Depth:** na

**Slope Degrees:** 0

**Aspect:** na

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Staff carpark and cable car operations facility

**Adjacent Landuse:** visitor transit to Durseley Island, walking, sheep commonage

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: N/A

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

Species Latin Name	Species English Name	Species Cover (Domin)
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N/A

**Site:** Durseley Sound

**Quadrat Number:** QDSAG9

**Quadrat Description:** Grassy bank above carpark/road before Discovery Point

**Quadrat Comments:** Near 2018 DS-Q10 quadrat location.

**Habitat Type:** GS3/HH1 – dry grassland/heath mosaic

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 450820

**Y Coordinate:** 541923

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 24

**Aspect:** S

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None

**Adjacent Landuse:** visitor use, sheep commonage

**Grazing Comments:** low levels of grazing

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 15

Herb Grass Cover: 85

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-30

Height of Tree layer (cm):

Height of Shrub Layer (cm): 5-10

Height Herb Layer (cm): 5-30

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Achillea millefolium</i>	Yarrow	4
<i>Thymus polytrichus</i>	Wild thyme	5
<i>Festuca ovina</i>	Sheep's fescue	7
<i>Taraxacum sp.</i>	Dandelion	2
<i>Potentilla erecta</i>	Tormentil	2
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	2
<i>Erica tetralix</i>	Cross-leaved heath	4
<i>Carex panicia</i>	Carnation sedge	2
<i>Dactylis glomerata</i>	Cock's foot	5
<i>Alopecurus pratensis</i>	Meadow foxtail	4
<i>Cynosurus cristatus</i>	Crested dog's tail	4
<i>Juncus sp.</i>	Rushes	4
<i>Ulex gallii</i>	Furze	4

**Site:** Dursey Sound

**Quadrat Number:** QDSAG10

**Quadrat Description:** Grassy area between carpark and cliffs/rocks – near concrete structure

**Quadrat Comments:**

**Habitat Type:** GS3 dry humic grassland

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Compared to other areas seems untouched/un-grazed

**Quadrat Number:** 10

**X Coordinate:** 51.609914

**Y Coordinate:** -10.155214

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** 10cm?

**Slope Degrees:** 16

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None

**Adjacent Landuse:** visitor carpark

**Grazing Comments:** No grazing

**General Faunal Observations:** Common blue butterfly, gannets foraging offshore, cormorants and oystercatchers flying over water

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 10-50

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 10-50

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Festuca ovina</i>	Sheep's fescue	8
<i>Holcus lanatus</i>	Yorkshire fog	6
<i>Poa trivialis</i>	Rough meadow grass	5
<i>Elytrigia atherica</i>	Sea couch	6
<i>Juncacaea</i>	Rushes	3
<i>Taraxacum sp.</i>	Dandelion	2

**Site:** Durseley Sound

**Quadrat Number:** QDSAG11

**Quadrat Description:** Sheltered spot adjacent to stone wall of seating area

**Quadrat Comments:**

**Habitat Type:** GS3/ER – dry grassland/exposed rock

**Quadrat Type:** Core

**Quadrat Type Comments:** Lots of trampling & erosion, bare ground

**Quadrat Number:** 11

**X Coordinate:** 51.609874

**Y Coordinate:** -10.155024

**Survey Date:** 06/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** variable

**Slope Degrees:** 9

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Visitor use – seating, sheltering, viewing point.

**Adjacent Landuse:** Seating area, visitor carpark, catering vans, cable car

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 40

Tree Cover:

Shrub Cover:

Herb Grass Cover: 40

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 20

Bare Peat/Soil Cover: 40

Open Water Cover:

Height of Vegetation (cm): ~1cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): ~1cm

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Plantago coronopus</i>	Buck's horn plantain	8
<i>Plantago maritima</i>	Sea plantain	5
<i>Bellis perennis</i>	Daisy	4
<i>Bryophyta</i>	Mosses	4
<i>Festuca sp.</i>	Fescue grass	4
<i>Poa annua</i>	Annual meadow grass	4
<i>Sedum anglicum</i>	English stonecrop	3



**Site:** Inch Strand

**Quadrat Number:** QISAG1

**Quadrat Description:** Marram dune 350m SW of café

**Quadrat Comments:**

**Habitat Type:** CD2 marram dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 52.139489

**Y Coordinate:** -9.9777

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly stable

**Substrate Depth:** 5-10m

**Slope Degrees:** 35

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None, cattle grazing

**Adjacent Landuse:** visitor use – walking, picnicking

**Grazing Comments:** low levels of grazing, cow pats but no cattle present

**General Faunal Observations:** Skylarks, so many snails, dog fouling

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 95

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 5 (sand)

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Ammophila arenaria</i>	Marram grass	8
<i>Elytrigia repens</i>	Common couch grass	5
<i>Carex arenaria</i>	Sand sedge	4
<i>Gallium verum</i>	Lady's bedstraw	4
<i>Analgalis arvensis</i>	Scarlet pimpernel	3
<i>Taraxacum spp.</i>	Dandelion species	4

**Site:** Inch Strand

**Quadrat Number:** QISAG2

**Quadrat Description:** Fixed dune 350m SW of café, inland of Q1SAG1

**Quadrat Comments:**

**Habitat Type:** CD3 fixed dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 2

**X Coordinate:** 52.139536

**Y Coordinate:** -9.976933

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** 5-10m

**Slope Degrees:** 15

**Aspect:** NW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** None, cattle grazing

**Adjacent Landuse:** visitor use – walking, picnicking; grazing

**Grazing Comments:** low levels of grazing, cow pats but no cattle present

**General Faunal Observations:** Skylarks, rabbits, cow pats.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Ammophila arenaria</i>	Marram grass	6
<i>Festuca rubra</i>	Red fescue	6
<i>Gallium verum</i>	Lady's bedstraw	6
<i>Holcus lanayus</i>	Yorkshire Fog grass	5
<i>Trifolium repens</i>	White clover	5
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	5
<i>Euphasia officianalus</i>	Eyebright	4
<i>Luzula sp.</i>	Wood rush	4
<i>Cerastium diffusum</i>	Sea mouse-ear	2
<i>Veronica sp.</i>	Speedwell	2

**Site:** Inch Strand

**Quadrat Number:** QISAG3

**Quadrat Description:** Embryonic dune c. 500 from café

**Quadrat Comments:** Some people walk along this edge of the beach, most along waterline

**Habitat Type:** CD1 embryonic dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 52.138387

**Y Coordinate:** -9.978074

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** loose

**Substrate Depth:** <1m

**Slope Degrees:** 5

**Aspect:** SW

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Beach – visitor use, walking

**Adjacent Landuse:** visitor use – walking, surfing, kiting, driving, fishing

**Grazing Comments:**

**General Faunal Observations:** dogs off-lead

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover:

Herb Grass Cover: 30

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 70 sand

Open Water Cover:

Height of Vegetation (cm): 5-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-30

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Cakile maritima</i>	Sea rocket	20
<i>Elytrigia juncea</i>	Sand couch grass	80

**Site:** Inch Strand

**Quadrat Number:** QISAG4

**Quadrat Description:** Beach c. 450 from café

**Quadrat Comments:** Most people who walk down the beach do so closer to water. Parking/driving is allowed for 1km along beach from café

**Habitat Type:** LS2 Sandflats

**Quadrat Type:** Core/Secondary TBC

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 52.137885

**Y Coordinate:** -9.979067

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** firm

**Substrate Depth:** N/A

**Slope Degrees:** 2

**Aspect:** SW

**Water Table Depth:** Just below

**Comments on Hydrology:** tide out



**Quadrat Management:** Beach

**Adjacent Landuse:** visitor use – walking, surfing, kiting, driving, fishing

**Grazing Comments:**

**General Faunal Observations:** dogs off-lead

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

Species Latin Name	Species English Name	Species Cover (Domin)
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N/A

**Site:** Inch Strand

**Quadrat Number:** QISAG5

**Quadrat Description:** Embryonic dune c. 100m from café/surf schools

**Quadrat Comments:**

**Habitat Type:** CD1 embryonic dune

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 52.140805

**Y Coordinate:** -9.980932

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly soft

**Substrate Depth:** <1m

**Slope Degrees:** 6

**Aspect:** SW

**Water Table Depth:** below

**Comments on Hydrology:** Just above high tide line



**Quadrat Management:** Beach – visitor use – walking

**Adjacent Landuse:** visitor use – walking, surfing, kiting, driving, fishing

**Grazing Comments:**

**General Faunal Observations:** dogs off-lead

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 5

Tree Cover:

Shrub Cover:

Herb Grass Cover: 5

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 95 sand

Open Water Cover:

Height of Vegetation (cm): 5-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-20

Species Latin Name	Species English Name	Species Cover (Domin)
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<i>Elytrigia juncea</i>	Sand couch	7
<i>Honckenya peploides</i>	Sea sandwort	6
<i>Salsola kali</i>	Prickly saltwort	6

**Site:** Inch Strand

**Quadrat Number:** QISAG6

**Quadrat Description:** Behind 1km no parking sign

**Quadrat Comments:**

**Habitat Type:** CD2 marram dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 6

**X Coordinate:** 52.134055

**Y Coordinate:** -9.973418

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** 3m

**Slope Degrees:** 15

**Aspect:** NW

**Water Table Depth:** below

**Comments on Hydrology:**



**Quadrat Management:** None, dunes

**Adjacent Landuse:** visitor activities – walking, surfing, kiting, driving, fishing

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 40

Tree Cover:

Shrub Cover:

Herb Grass Cover: 40

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 60 sand

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Ammophila arenaria</i>	Marram grass	7
<i>Euphorbia paralias</i>	Sea spurge	6
<i>Koeleria macrantha</i>	Crested hair grass	5
<i>Sonchus arvensis</i>	Perennial sowthistle	3
<i>Taraxacum sp.</i>	Dandelion species	3

**Site:** Inch Strand

**Quadrat Number:** QISAG7

**Quadrat Description:** Fixed dune behind 1km No Parking sign

**Quadrat Comments:**

**Habitat Type:** CD3 fixed dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 7

**X Coordinate:** 52.134841

**Y Coordinate:** -9.972239

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand/thin layer of soil

**Stability:** Firm

**Substrate Depth:** c. 10m

**Slope Degrees:** 20

**Aspect:** E

**Water Table Depth:** below

**Comments on Hydrology:**



**Quadrat Management:** None, dunes

**Adjacent Landuse:** visitor activities, grazing

**Grazing Comments:** None observed

**General Faunal Observations:** stonechat (family), rabbit, pigeon, skylark

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 80

Bryophyte Cover: 30

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 5

Open Water Cover:

Height of Vegetation (cm): 1-50

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-50

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Bryophyta spp.</i>	Mosses	7
<i>Festuca rubra</i>	Red fescue	6
<i>Galium verum</i>	Lady's bedstraw	6
<i>Trifolium repens</i>	White clover	6
<i>Ammophila arenaria</i>	Marram grass	5
<i>Carex arenaria</i>	Sand sedge	5
<i>Koeleria macrantha</i>	Crested hair grass	5
<i>Taraxacum spp.</i>	Dandelion	4
<i>Bromus hordeaceus</i>	Soft brome	4
<i>Vicia sativa</i>	Common vetch (white form)	2

**Site:** Inch Strand

**Quadrat Number:** QISAG8

**Quadrat Description:** Depression between marram ridges behind 1km no parking sign

**Quadrat Comments:** Fire pit

**Habitat Type:** CD2 marram dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 52.134535

**Y Coordinate:** -9.972242

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** 3m

**Slope Degrees:** 8

**Aspect:** SE

**Water Table Depth:** below

**Comments on Hydrology:**



**Quadrat Management:** None, dunes

**Adjacent Landuse:** visitor activities, grazing

**Grazing Comments:**

**General Faunal Observations:** rabbit burrows, rooks, meadow pipit

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 95

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 5 sand

Open Water Cover:

Height of Vegetation (cm): 1-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	7
<i>Viola tricolor spp. curtsii</i>	Sand pansy	7
<i>Euphrasia</i>	Eyebright	7
<i>Festuca rubra</i>	Red fescue	5
<i>Eryngium maritimum</i>	Sea holly	4
<i>Galium verum</i>	Lady's bedstraw	4
<i>Ammophila arenaria</i>	Marram grass	4
<i>Polygala vulgaris</i>	Common milkwort	3
<i>Juncus sp.</i>	Rushes	2



**Site:** Inch Strand

**Quadrat Number:** QISAG9

**Quadrat Description:** Beach in front of café/car-access section

**Quadrat Comments:** tide halfway in. Most trafficked area.

**Habitat Type:** LS2 sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 52.141086

**Y Coordinate:** -9.982872

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 2

**Aspect:** SW



**Water Table Depth:** between high and low water mark

**Comments on Hydrology:**

**Quadrat Management:** beach, management of car-access with JCB (keeping it clear/smooth)

**Adjacent Landuse:** visitor activities

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Inch Strand

**Quadrat Number:** QISAG10

**Quadrat Description:** Picnic area in front of café

**Quadrat Comments:** paving, picnic benches

**Habitat Type:** BL3 artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:**  
10

**X Coordinate:** 52.141852

**Y Coordinate:** -9.981260

**Survey Date:** 13/06/19

**Surveyor:** Aoibheann

**Substrate:** paving

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** below

**Comments on Hydrology:**

**Quadrat Management:** Sammy's picnic area

**Adjacent Landuse:** visitor activities

**Grazing Comments:**

**General Faunal Observations:** Jackdaw, rooks, dogs.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Inch Strand

**Quadrat Number:** QISAG11

**Quadrat Description:** "Fenced-off" dune area adjacent to café with bee orchid *Orphrys apifera*

**Quadrat Comments:** Many people ignored fencing. Lots of desire lines. Quadrat located directly adjacent to strong desire line that runs all the way along marram dune ridge. All wild plants are given some measure of protection in Northern Ireland under the Wildlife (NI) Order, 1985. The Bee Orchid listed in Schedule 8, parts 1 and 2, is given special protection.

**Habitat Type:** CD2/GS1 marram dune/dry calcareous neutral grassland

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 11

**X Coordinate:** 52.140034

**Y Coordinate:** -9.978700

**Survey Date:** 14/06/19

**Surveyor:** Aoibheann

**Substrate:** sand

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 22

**Aspect:** SW

**Water Table Depth:** below

**Comments on Hydrology:**



**Quadrat Management:** grazing

**Adjacent Landuse:** visitor activities, farming, grazing

**Grazing Comments:** plenty of cow pats. Land owned by cattle farm next door?

**General Faunal Observations:** stonechat, skylark, house martin, snails

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 90

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 10 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	7
<i>Plantago lanceolata</i>	Ribwort plantain	6
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	6
<i>Cerastium diffusum</i>	Sea mouse-ear	6
<i>Crocsmia × crocosmiiflora</i>	Montbretia	5
<i>Ammophila arenaria</i>	Marram	4
<i>Senecio jacobaea</i>	Common ragwort	4
<i>Taraxacum spp.</i>	Dandelion	4
<i>Trifolium repens</i>	White clover	4
<i>Polygala vulgaris</i>	Common milkwort	4
<i>Orphrys apifera</i>	Bee orchid	3
<i>Anacamptis pyramidalis</i>	Pyramidal orchid	2

**Site:** Banna Strand

**Quadrat Number:** QBSAG1

**Quadrat Description:** Fixed dune to LHS of carpark, in a shallow depression between the ridges.

**Quadrat Comments:** Noticeably less floral diversity than Inch strand

**Habitat Type:** CD3 fixed dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 52.335619

**Y Coordinate:** -9.834543

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand/soil

**Stability:** Firm

**Substrate Depth:** 5-10m

**Slope Degrees:** 16

**Aspect:** N



**Water Table Depth:** below

**Comments on Hydrology:**

**Quadrat Management:** none

**Adjacent Landuse:** visitor activities on beach, dunes

**Grazing Comments:** none observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	9
<i>Festuca rubra</i>	Red fescue	5
<i>Ammophila arenaria</i>	Marram	5
<i>Keolera macrantha</i>	Crested hair-grass	5
<i>Vicia sp.</i>	Vetch (no flowers)	4
<i>Trifolium repens</i>	White clover	4
<i>Galium verum</i>	Lady's bedstraw	4
<i>Runuculus sp.</i>	Buttercup (Crow's foot?)	3
<i>Veronica chamaedrys</i>	Germander speedwell	2

**Site:** Banna Strand

**Quadrat Number:** QBSAG2

**Quadrat Description:** Marram dune to LHS of carpark, adjacent to beach.

**Quadrat Comments:** Quadrat beside desire line into dunes

**Habitat Type:** CD2 marram dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:** lots of evidence that people walk here although few people observed

**Quadrat Number:** 2

**X Coordinate:** 52.336426

**Y Coordinate:** -9.834601

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Somewhat loose

**Substrate Depth:** 5m

**Slope Degrees:** 10

**Aspect:** SE

**Water Table Depth:** below

**Comments on Hydrology:**



**Quadrat Management:** none

**Adjacent Landuse:** visitor activities on beach, dunes

**Grazing Comments:** none observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 65

Tree Cover:

Shrub Cover:

Herb Grass Cover: 65

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 35

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Ammophila arenaria</i>	Marram	9
<i>Convolvulus soldanella</i>	Sea bindweed	7
<i>Anthyllis vulneraria</i>	Kidney vetch	5
<i>Festuca rubra</i>	Red fescue	5
<i>Euphorbia paralias</i>	Sea spurge	5

**Site:** Banna Strand

**Quadrat Number:** QBSAG3

**Quadrat Description:** Embryonic dune to LHS of carpark

**Quadrat Comments:** located in stony bank that is protecting dunes

**Habitat Type:** CD1 embryonic dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Evidence that people walk here although few people observed

**Quadrat Number:** 3

**X Coordinate:** 52.335864

**Y Coordinate:** -9.835892

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Somewhat loose

**Substrate Depth:** 1m

**Slope Degrees:** 20

**Aspect:** W

**Water Table Depth:** below

**Comments on Hydrology:** just above high tide line



**Quadrat Management:** none

**Adjacent Landuse:** visitor activities on beach (mainly walking), dunes

**Grazing Comments:** none observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 75

Tree Cover:

Shrub Cover:

Herb Grass Cover: 75

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 25 sand/rocks

Open Water Cover:

Height of Vegetation (cm): <5

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <5

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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<i>Honckenya peploides</i>	Sea sandwort (mound)	10

**Site:** Banna Strand

**Quadrat Number:** QBSAG4

**Quadrat Description:** Beach to LHS of carpark

**Quadrat Comments:** most visitors walk here

**Habitat Type:** LS2 sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 52.336286

**Y Coordinate:** -9.836027

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 2

**Aspect:** W

**Water Table Depth:** below

**Comments on Hydrology:** between low and high tide mark



**Quadrat Management:** none

**Adjacent Landuse:** visitor activities on beach (mainly walking), dunes

**Grazing Comments:** none observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Banna Strand

**Quadrat Number:** QBSAG5

**Quadrat Description:** Stony bank in front of carpark

**Quadrat Comments:** Coastal protection – artificial surface possibly?

**Habitat Type:** CB1 Shingle/gravel bank

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 52.338532

**Y Coordinate:** -9.834811

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** fairly firm

**Substrate Depth:** 1-2m

**Slope Degrees:** 60

**Aspect:** W

**Water Table Depth:** below

**Comments on Hydrology:** above high tide mark



**Quadrat Management:** carpark/sea defence

**Adjacent Landuse:** visitor activities on beach (surfing, walking, running, swimming, kite surfing)

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 rock/sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A



**Site:** Banna Strand

**Quadrat Number:** QBSAG6

**Quadrat Description:** Road cutaway through marram dune along carpark access road

**Quadrat Comments:** Colonising coastal plants on man-made bank

**Habitat Type:** CD1/CD2 embryonic/marram mosaic

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 6

**X Coordinate:** 52.338873

**Y Coordinate:** -9.8340904

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** unstable

**Substrate Depth:** na

**Slope Degrees:** 60

**Aspect:** S

**Water Table Depth:** below

**Comments on Hydrology:**



**Quadrat Management:** carpark access road

**Adjacent Landuse:** carpark, beach, dunes

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 80

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 20 sand

Open Water Cover:

Height of Vegetation (cm): 10-60

Height of Tree layer (cm):

Height of Shrub Layer (cm): 10-60

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Crithimum maritimum</i>	Peter's cress	9
<i>Ammophila arenaria</i>	Marram	5
<i>Festuca ovina</i>	Sheep's fescue	5
<i>Euphorbia paralias</i>	Sea spurge	5
<i>Plantago lanceolate</i>	Ribwort plantain	2
<i>Taraxacum</i>	Dandelion species	2
<i>Eryngium maritimum</i>	Sea holly	2
<i>Carex sp.</i>	Sedges	2

**Site:** Banna Strand

**Quadrat Number:** QBSAG7

**Quadrat Description:** On slope beside pinch point into marram dunes from beach to RHS of carpark

**Quadrat Comments:** Evidence of traffic - desire lines, footprints and fire pit

**Habitat Type:** CD2 marram dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 7

**X Coordinate:** 52.339976

**Y Coordinate:** -9.834122

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Somewhat firm

**Substrate Depth:** 5m

**Slope Degrees:** 22

**Aspect:** SW



**Water Table Depth:** below

**Comments on Hydrology:**

**Quadrat Management:** none – visitor use, shelter, fires

**Adjacent Landuse:** visitor use on beach, dunes

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 40

Tree Cover:

Shrub Cover:

Herb Grass Cover: 40

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 60 sand

Open Water Cover:

Height of Vegetation (cm): 3-50

Height of Tree layer (cm):

Height of Shrub Layer (cm): 3-60

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Eryngium maritimum</i>	Sea holly	3
<i>Calystedia soldanella</i>	Sea bindweed	7
<i>Festuca ovina</i>	Sheep's fescue	7
<i>Ammophila arenaria</i>	Marram	5
<i>Anthyllis vulneraria</i>	Kidney vetch	4
<i>Plantago lanceolata</i>	Ribwort plantain	2
<i>Leontodon saxatilis</i>	Lesser hawkbit	2

**Site:** Banna Strand

**Quadrat Number:** QBSAG8

**Quadrat Description:** Fixed dunes above beach to RHS of carpark

**Quadrat Comments:** Some desire lines evident throughout system

**Habitat Type:** CD1 fixed dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 52.340549

**Y Coordinate:** -9.833826

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand/soil

**Stability:** Firm

**Substrate Depth:** 10m

**Slope Degrees:** 5

**Aspect:** W



**Water Table Depth:** below

**Comments on Hydrology:**

**Quadrat Management:** none

**Adjacent Landuse:** visitor use on beach & dunes

**Grazing Comments:** None observed

**General Faunal Observations:** Grasshoppers, six spot burnets emerging and mating, small blue butterflies, rooks

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	8
<i>Trifolium campestre</i>	Field clover	6
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Festuca rubra</i>	Red fescue	4
<i>Dactylis glomerate</i>	Cock's foot	4
<i>Ammophila arenaria</i>	Marram	4
<i>Bryophyta</i>	Mosses	4
<i>Senecio jacobaea</i>	Common ragwort	4
<i>Calystegia soldanella</i>	Sea bindweed	3
<i>Rununculus acris</i>	Crow's foot	3
<i>Anacamptis pyramidalis</i>	Pyramidal orchid	1

**Site:** Banna Strand

**Quadrat Number:** QBSAG9

**Quadrat Description:** Embryonic dune to RHS of carpark

**Quadrat Comments:** Some footprints. Marram dune fenced off but desire line running along behind fence

**Habitat Type:** CD1 embryonic dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 52.340624

**Y Coordinate:** -9.834197

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly soft

**Substrate Depth:** <1m

**Slope Degrees:** 20

**Aspect:** W

**Water Table Depth:** below

**Comments on Hydrology:** just above high-water mark



**Quadrat Management:** none – visitor use

**Adjacent Landuse:** visitor use on beach, dunes (although fenced)

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 35

Tree Cover:

Shrub Cover:

Herb Grass Cover: 35

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 65 sand

Open Water Cover:

Height of Vegetation (cm): 20-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 20-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Elytrigia juncea</i>	Sand couch grass	10

**Site:** Banna Strand

**Quadrat Number:** QBSAG10

**Quadrat Description:** Beach to RHS of carpark

**Quadrat Comments:** close to high tide mark

**Habitat Type:** LS2 Sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 10

**X Coordinate:** 52.340226

**Y Coordinate:** -9.834571

**Survey Date:** 15/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** N/A

**Slope Degrees:** 3

**Aspect:** W

**Water Table Depth:** below

**Comments on Hydrology:** just above high tide mark



**Quadrat Management:** none – visitor use

**Adjacent Landuse:** visitor use on beach, dunes, carpark

**Grazing Comments:** N/A

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover: 0

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Spanish Point

**Quadrat Number:** QSPAG1

**Quadrat Description:** Beach near carpark

**Quadrat Comments:** Lots of early dog walkers

**Habitat Type:** LS2 Sand shore

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 52.842624

**Y Coordinate:** -9.433181

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 1

**Aspect:** W

**Water Table Depth:** Just below

**Comments on Hydrology:** just at high tide mark, tide nearly fully in



**Quadrat Management:** None. Visitor use – walking, dog-walking, swimming, running, picnicking.

**Adjacent Landuse:** Road, residential housing, hospitality (hotels/café).

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover: 0

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Spanish Point

**Quadrat Number:** QSPAG2

**Quadrat Description:** Single bank between dunes and beach, LHS of carpark

**Quadrat Comments:** A stone wall had been built from the single.

**Habitat Type:** CB1 Single bank

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 2

**X Coordinate:** 52.842098

**Y Coordinate:** -9.432564

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Shingle & sand

**Stability:** Fairly firm, some rocks unstable.

**Substrate Depth:** ~5m

**Slope Degrees:** 1

**Aspect:** W



**Water Table Depth:** Below

**Comments on Hydrology:** Above high tide mark

**Quadrat Management:** None. Visitor use – walking, picnicking.

**Adjacent Landuse:** Beach, dunes, road, residential housing, hospitality (hotels/café).

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover: 0

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Spanish Point

**Quadrat Number:** QSPAG3

**Quadrat Description:** Dunes close to carpark (LHS)

**Quadrat Comments:** Evidence of visitor use – footprints, desire lines, trampling of veg & erosion of dunes. Some fencing around the adjacent dunes to manage access from carpark to beach.

**Habitat Type:** CD2 Marram dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Most people used the beach

**Quadrat Number:** 3

**X Coordinate:** 52.842140

**Y Coordinate:** -9.432497

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Somewhat firm

**Substrate Depth:** >5m

**Slope Degrees:** 2

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Some fencing in place to prevent further erosion along desire lines

**Adjacent Landuse:** Beach, road, residential housing, hospitality (hotels/café).

**Grazing Comments:** N/A

**General Faunal Observations:** Dog faeces.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 85

Tree Cover:

Shrub Cover:

Herb Grass Cover: 0

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 15

Open Water Cover:

Height of Vegetation (cm): 5-50

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-50

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Honckenya peploides</i>	Sea sandwort	8
<i>Carex arenaria</i>	Sand sedge	5
<i>Ammophila arenaria</i>	Marram grass	4
<i>Potentilla anserina</i>	Silverweed buttercup	4
<i>Elytrigia juncea</i>	Sand couch grass	4
<i>Tripleurospermum maritimum</i>	Mayweed	3



**Site:** Spanish Point

**Quadrat Number:** QSPAG4

**Quadrat Description:** Marram dunes between fencing for access from carpark to beach

**Quadrat Comments:** No evidence of visitor use here.

**Habitat Type:** CD2 Marram dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 52.841979

**Y Coordinate:** -9.432292

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand & some shingle

**Stability:** Fairly firm

**Substrate Depth:** >10m

**Slope Degrees:** 22

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Fencing to prevent erosion

**Adjacent Landuse:** Beach, road, residential housing, hospitality (hotels/café).

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 0

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 0

Open Water Cover:

Height of Vegetation (cm): 10-75

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 10-75

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	9
<i>Lolium multiflorum</i>	Italian rye-grass	4
<i>Ammophila arenaria</i>	Marram grass	6
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	5

**Site:** Spanish Point

**Quadrat Number:** QSPAG5

**Quadrat Description:** Fixed dunes to left of carpark

**Quadrat Comments:** Desire lines through the dune system. Quadrat placed adjacent to one of these and an old firepit.

**Habitat Type:** CD3 Fixed dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 52.841648

**Y Coordinate:** -9.432066

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** ~10m

**Slope Degrees:** 26

**Aspect:** E



**Water Table Depth:** Below

**Comments on Hydrology:** N/A

**Quadrat Management:** None. Visitor use, walking, shelter, fires, picnicking.

**Adjacent Landuse:** Beach, road, residential housing, hospitality (hotels/café).

**Grazing Comments:** N/A

**General Faunal Observations:** Cinnabar moth on ragwort.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 85

Tree Cover:

Shrub Cover:

Herb Grass Cover: 80

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover: 10

Bare Peat/Soil Cover: 5

Open Water Cover:

Height of Vegetation (cm): 5-50

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-50

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	9
<i>Bellis perennis</i>	Daisy	5
<i>Ammophila arenaria</i>	Marram grass	4
<i>Senecio jacobaea</i>	Ragwort	4
<i>Hypochaeris radicata</i>	Cat's-ear	4
<i>Plantago lanceolate</i>	Ribwort plantain	4
<i>Anacamptis pyramidalis</i>	Pyramidal orchid	2

**Site:** Spanish Point

**Quadrat Number:** QSPAG6

**Quadrat Description:** Beach beside petrifying springs & below sand martin next bank in clifftop

**Quadrat Comments:** Adjacent to priority habitat, lots of walkers come to this point and turn around.

**Habitat Type:** LS2 Sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 6

**X Coordinate:** 52.838173

**Y Coordinate:** -9.432073

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

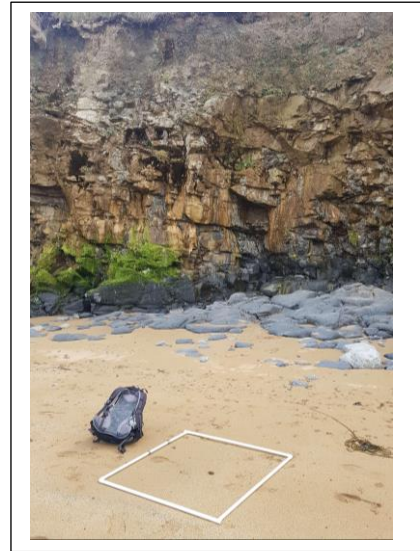
**Substrate Depth:** N/A

**Slope Degrees:** 3.5

**Aspect:** W

**Water Table Depth:** Around high tide mark

**Comments on Hydrology:** tide going out



**Quadrat Management:** None. Visitor use, walking, dog-walking.

**Adjacent Landuse:** Road, cliff, single bank, river mouth to LHS.

**Grazing Comments:** N/A

**General Faunal Observations:** Sand martin

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 0

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A

**Site:** Spanish Point

**Quadrat Number:** QSPAG7

**Quadrat Description:** Cliff-top above petrifying springs & sand martin nests

**Quadrat Comments:** Desire line, but probably animal-made. Remains of fox(?) bird-kill.

**Habitat Type:** GS2 – Grassy verge beside road on cliff-top

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 7

**X Coordinate:** 52.838345

**Y Coordinate:** -9.431928

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** ~10m

**Slope Degrees:** 5

**Aspect:** S

**Water Table Depth:** Below

**Comments on Hydrology:** Petrifying springs below on cliff face



**Quadrat Management:** None.

**Adjacent Landuse:** Road, cliff, beach.

**Grazing Comments:** N/A

**General Faunal Observations:** Sand martin. Possible fox kill.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 0

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	8
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	8
<i>Carex arenaria</i>	Sand sedge	6

**Site:** Spanish Point

**Quadrat Number:** QSPAG8

**Quadrat Description:** Picnic area to LHS of carpark

**Quadrat Comments:** Managed area, regular mowing.

**Habitat Type:** GA2 Amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 52.842187

**Y Coordinate:** -9.431926

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 8

**Aspect:** N

**Water Table Depth:** Below

**Comments on Hydrology:** N/A



**Quadrat Management:** Picnic area.

**Adjacent Landuse:** Road, carpark, beach.

**Grazing Comments:** N/A

**General Faunal Observations:** Goldfinch.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 95

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 0

Bare Peat/Soil Cover: 5 sandy soil

Open Water Cover:

Height of Vegetation (cm): 3-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	9
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	5
<i>Bellis perennis</i>	Daisy	5
<i>Achillea millefolium</i>	Yarrow (pink flowers!)	5
<i>Lolium perenne</i>	Perennial rye-grass	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Cerastium fontanum</i>	Mouse-ear	3
<i>Hypochaeris radicata</i>	Cat's-ear	1

**Site:** Spanish Point

**Quadrat Number:** QSPAG9

**Quadrat Description:** Rocky outcrop on upper shore in front of Discovery Point

**Quadrat Comments:** Most people walked here especially when tide went out. Fossilised sandstone delta-bed with rippled surface.

**Habitat Type:** LR4 mixed substrata (rocky outcrop between sandflats)

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 52.843056

**Y Coordinate:** -9.433669

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** solid

**Substrate Depth:** unknown

**Slope Degrees:** 9.2

**Aspect:** S

**Water Table Depth:** running from above high tide to below high tide

**Comments on Hydrology:**



**Quadrat Management:** None. Visitor use – walking, swimming etc.

**Adjacent Landuse:** Beach, carpark.

**Grazing Comments:** N/A

**General Faunal Observations:** Barnacles on rocks, rockpools with ephemeral green seaweed, sea anemones, periwinkles and muscles along the outcrop.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A

**Site:** Spanish Point

**Quadrat Number:** QSPAG10

**Quadrat Description:** Petrifying springs on cliffs to RHS of carpark/beach

**Quadrat Comments:** Easily accessible from beach – cliff face a series of ledges. But probably unattractive to visitors.

**Habitat Type:** CS1 Sea cliffs with petrifying springs (priority habitat 7220)

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:**

10

**X Coordinate:** 52.843828

**Y Coordinate:** -9.433664

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** solid

**Substrate Depth:** ~5m

**Slope Degrees:** 6

**Aspect:** S

**Water Table Depth:** Below

**Comments on Hydrology:** Petrifying springs



**Quadrat Management:** None.

**Adjacent Landuse:** Beach, road.

**Grazing Comments:** N/A

**General Faunal Observations:** Gulls, wagtails.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 70

Tree Cover:

Shrub Cover:

Herb Grass Cover: 10

Bryophyte Cover: 60

Litter Cover:

Algae Cover:

Rock Cover: 30

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	3
<i>Plantago</i>	Buck's horn plantain	2
<i>Bellis perennis</i>	Scurvy grass	2
<i>Palustriella commutata</i>	Curled hook moss	Bryophytes together 9
<i>Cratoneuron flicinum</i>	Fern-leaved hook moss	
<i>Leiocolea turbinata</i>	Top notchwort moss	
<i>Pellia endiviifolia</i>	Liverwort	
<i>Eucladium verticillatum</i>	Whorled tufa moss	

**Site:** Spanish Point

**Quadrat Number:** QSPAG11

**Quadrat Description:** Decking adjacent to lifeguard building and at Discovery Point.

**Quadrat Comments:** DP, some signage and benches here. Viewing point over beach to the west.

**Habitat Type:** BL3 Building and artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 11

**X Coordinate:** 52.843106

**Y Coordinate:** -9.433093

**Survey Date:** 22/06/19

**Surveyor:** Aoibheann

**Substrate:** Wooden decking, concrete

**Stability:** solid

**Substrate Depth:** unknown

**Slope Degrees:** N/A

**Aspect:** N/A



**Water Table Depth:** N/A

**Comments on Hydrology:**

**Quadrat Management:** Discovery Point. Visitor use – reading signage, taking in view, walking, sitting etc.

**Adjacent Landuse:** Beach, carpark, road, residential, hospitality.

**Grazing Comments:** N/A

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover:

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100% artificial surface (decking)

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A



**Site:** Flaggy Shore

**Quadrat Number:** QFSAG1

**Quadrat Description:** In parking area adjacent to Discovery Point.

**Quadrat Comments:** DP, some signage and a bench here. Gravel surface.

**Habitat Type:** BL3 Artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 52.156862

**Y Coordinate:** -9.087814

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** unknown

**Slope Degrees:** 5

**Aspect:** NE

**Water Table Depth:** below

**Comments on Hydrology:** Close to sea shore



**Quadrat Management:** Discovery Point. Visitor use – reading signage, taking in view, walking, sitting, carpark.

**Adjacent Landuse:** Beach, carpark, road, residential.

**Grazing Comments:** None

**General Faunal Observations:**

Rooks, pied wagtails, jackdaw, terns and gulls

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 5

Tree Cover:

Shrub Cover:

Herb Grass Cover: 5

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 95 gravel

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Shrub Layer (cm):

Height of Tree layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Lolium perenne</i>	Perennial rye-grass	8
<i>Plantago lanceolata</i>	Ribwort plantain	3
<i>Tripleurospermum maritimum</i>	Sea mayweed	3

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG2

**Quadrat Description:** Grassy area between carpark and shore

**Quadrat Comments:** Colonising maritime plants. Disturbed ground, walking & driving onto beach

**Habitat Type:** CB1 Shingle & gravel banks

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 2

**X Coordinate:** 52.156921

**Y Coordinate:** -9.087710

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** <5cm

**Slope Degrees:** 5

**Aspect:** NE

**Water Table Depth:** below

**Comments on Hydrology:** Close to sea shore, above high tide mark



**Quadrat Management:** Visitor use –walking to beach and some driving. Taking photos.

**Adjacent Landuse:** Beach, carpark, road, residential, agricultural (pasture, silage cutting)

**Grazing Comments:** None

**General Faunal Observations:**

Rooks, pied wagtails, jackdaw, Sandwich terns and gulls

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 90

Tree Cover:

Shrub Cover:

Herb Grass Cover: 5

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 7 gravel

Bare Peat/Soil Cover: 3 sand

Open Water Cover:

Height of Vegetation (cm): 3-40

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-40

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Raphanus raphanistrum</i>	Sea Radish	7
<i>Tripleurospermum maritimum</i>	Sea mayweed	5
<i>Lolium perenne</i>	Perennial rye-grass	7
<i>Agrostis sp.</i>	Bent grass	4
<i>Plantago lanceolata</i>	Ribwort plantain	4

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG3

**Quadrat Description:** Beach close to high tide mark

**Quadrat Comments:** Small sandy area between extensive shingle shore. Tyre marks.

**Habitat Type:** LS2 Sandflats

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 52.156916

**Y Coordinate:** -9.087523

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

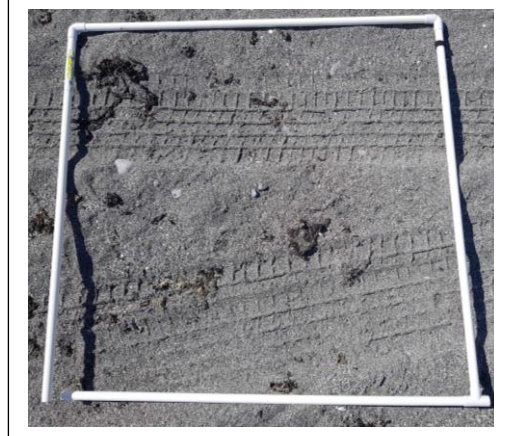
**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** <1m

**Slope Degrees:** 7

**Aspect:** NE



**Water Table Depth:** at high tide mark

**Comments on Hydrology:**

**Quadrat Management:** Visitor use – walking, dog-walking, sitting, swimming.

**Adjacent Landuse:** Road, carpark, residential, agricultural (pasture, silage cutting)

**Grazing Comments:** None

**General Faunal Observations:**

Rooks, pied wagtails, jackdaw, Sandwich terns and gulls

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 coarse sand

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG4

**Quadrat Description:** Shingle bank between carpark and shore

**Quadrat Comments:** Substrate from coarse sand to large rocks.

**Habitat Type:** CB1 Single bank

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 52.157161

**Y Coordinate:** -9.088006

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Shingle

**Stability:** Fairly firm, some loose material

**Substrate Depth:** <1m

**Slope Degrees:** 0

**Aspect:** N/A

**Water Table Depth:** above high tide mark

**Comments on Hydrology:** evidence of occasional inundation



**Quadrat Management:** None.

**Adjacent Landuse:** Road, carpark, beach, residential, agricultural (pasture, silage cutting)

**Grazing Comments:** None

**General Faunal Observations:**

Rooks, pied wagtails, jackdaw, Sandwich terns and gulls

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 40

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 15-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 15-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Beta vulgaris spp. maritima</i>	Sea beet	6
<i>Cochlearia officinalis</i>	Common scurvygrass	6
<i>Raphanus raphanistrum</i>	Sea radish	6
<i>Puccinellia maritima</i>	Common saltmarsh grass	4

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG5

**Quadrat Description:** Shingle shore between carpark and beach

**Quadrat Comments:** Fossiliferous limestone rocks and boulders.

**Habitat Type:** LS1 Single shore

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 52.157213

**Y Coordinate:** -9.087908

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** Fairly firm, some loose material

**Substrate Depth:** <2m

**Slope Degrees:** 10-15

**Aspect:** ENE

**Water Table Depth:** at high tide mark

**Comments on Hydrology:** N/A



**Quadrat Management:** None.

**Adjacent Landuse:** Road, beach, residential, visitor activities

**Grazing Comments:** None

**General Faunal Observations:**

Sandwich terns and cormorants

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): N/A

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG6

**Quadrat Description:** Grassy stepped banks behind road overlooking Discovery Point & beach

**Quadrat Comments:** Slope between two grassy banks

**Habitat Type:** GA2 Amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** people relaxing on grass

**Quadrat Number:** 6

**X Coordinate:** 52.156881

**Y Coordinate:** -9.088237

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** 1-2m

**Slope Degrees:** 25

**Aspect:** NE



**Water Table Depth:** below

**Comments on Hydrology:** N/A

**Quadrat Management:** Private? Looks like a garden but not attached to house, grass regularly cut

**Adjacent Landuse:** Road, beach, residential, agriculture, silage cutting, visitor activities

**Grazing Comments:** None

**General Faunal Observations:**

Wren (juvenile and parent), linnnet, goldfinch, speckled wood butterfly, rooks

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 85

Bryophyte Cover: 30

Litter Cover:

Algae Cover:

Rock Cover: 5

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-40

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-40

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Lolium perenne</i>	Perennial rye-grass	7
<i>Bryophyta</i>	Yellow feather moss	6
<i>Bellis perennis</i>	Daisy	5
<i>Veronica chamaedrys</i>	Germander speedwell	5
<i>Dactylis glomerata</i>	Cock's foot grass	5
<i>Holcus lanatus</i>	Yorkshire fog	5
<i>Geranium lucidum</i>	Shining crane's bill	4
<i>Cerastium fontanum</i>	Common mouse-ear	4
<i>Hedera Hibernica</i>	Ivy	4
<i>Taraxacum sp.</i>	Dandelion	2
<i>Asplenium scolopendrium</i>	Hart's tongue fern	2

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG7

**Quadrat Description:** Grassy verge between road and sea wall

**Quadrat Comments:** Looped walking route, people stepped off road to let cars pass

**Habitat Type:** GS2 grassy verge

**Quadrat Type:** Secondary

**Quadrat Type Comments:** walkers avoiding cars & taking pictures

**Quadrat Number:** 7

**X Coordinate:** 52.157980

**Y Coordinate:** -9.090038

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** gravel/soil

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 7

**Aspect:** N

**Water Table Depth:** below

**Comments on Hydrology:** N/A



**Quadrat Management:** None, road verge. Visitor walking, running, cycling. Traffic.

**Adjacent Landuse:** Road, shingle bank, residential, agriculture

**Grazing Comments:** None

**General Faunal Observations:**

Bees! Oystercatchers, terns, cormorant

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	8
<i>Lolium perenne</i>	Perennial rye-grass	6
<i>Plantago coronopus</i>	Buck's horn plantain	5
<i>Cochlearia officinalis</i>	Common scurvygrass	4
<i>Raphanus raphanistrum spp. maritimus</i>	Sea radish	4
<i>Tripleurospermum maritimum</i>	Sea mayweed	5
<i>Taraxacum sp.</i>	Dandelion	3
<i>Trifolium repens</i>	White clover	3
<i>Beta vulgaris</i>	Sea beet	3
<i>Plantago lanceolata</i>	Ribwort plantain	3
<i>Rumex sp.</i>	Dock	2

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG8

**Quadrat Description:** Road – part of looped walking route

**Quadrat Comments:**

**Habitat Type:** BL3 artificial surface - tarmac

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 52.157756

**Y Coordinate:** -9.089764

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Tarmac

**Stability:** Firm

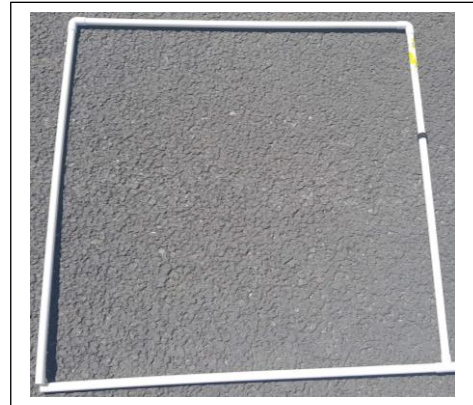
**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A

**Water Table Depth:** below

**Comments on Hydrology:** N/A



**Quadrat Management:** Road. Visitor use: walking, running, cycling. Traffic.

**Adjacent Landuse:** Agricultural (pasture), residential, shingle bank

**Grazing Comments:** None

**General Faunal Observations:**

N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100% tarmac

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A



**Site:** Flaggy Shore

**Quadrat Number:** QFSAG9

**Quadrat Description:** Newquay beach at Flaggy Shore

**Quadrat Comments:** surprisingly most people don't actually go onto the beach

**Habitat Type:** LS2 Sandflat, LS1 single on either side

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 52.157198

**Y Coordinate:** -9.086745

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 3.5

**Aspect:** N

**Water Table Depth:** In between low and high tide mark

**Comments on Hydrology:** tide out



**Quadrat Management:** Beach. Visitor use: walking, swimming.

**Adjacent Landuse:** Road, carpark, shingle shore/bank, residential, agricultural (pasture)

**Grazing Comments:** None

**General Faunal Observations:**

Jellyfish – compass, moon and crystal, rooks and jackdaw foraging in seaweed. Pied wagtail.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100% sand

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Flaggy Shore

**Quadrat Number:** QFSAG10

**Quadrat Description:** Limestone pavement above rocky shore approx. 1km from carpark

**Quadrat Comments:** Visitor attraction. Some people parked up here and walked on it. Fossiliferous limestone – primarily corals and some brachiopods. Unusual for Burren limestone to extend down to the shoreline. Makes interesting rock formations.

**Habitat Type:** ER2 Exposed calcareous rock. Limestone pavement [8240] is an annexed habitat.

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 10

**X Coordinate:** 52.159450

**Y Coordinate:** -9.100661

**Survey Date:** 20/06/19

**Surveyor:** Aoibheann

**Substrate:** Limestone

**Stability:** Solid

**Substrate Depth:** Unknown

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Above shoreline splash zone

**Comments on Hydrology:**

**Quadrat Management:** None. Visitor use: walking

**Adjacent Landuse:** Road, carpark, shingle shore/bank, residential, agricultural (pasture)

**Grazing Comments:** None

**General Faunal Observations:**

Lobster pots offshore. Terns diving offshore. Solitary & colonial coral fossils, brachiopod fossils.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 35

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: lichens on rock surface

Rock Cover:

Bare Peat/Soil Cover: 65

Open Water Cover:

Height of Vegetation (cm): 3-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Beta vulgaris spp. maritima</i>	Sea beet	7
<i>Armeria maritima</i>	Sea thrift/pink	6
<i>Plantago maritima</i>	Sea plantain	5
<i>Lolium perenne</i>	Perennial rye-grass	4
<i>Festuca rubra</i>	Red fescue	3
<i>Plantago coronopus</i>	Buck's horn plantain	3

**Site:** Traught Beach

**Quadrat Number:** QT BAG1

**Quadrat Description:** Beach to far LHS of carpark (~350m away)

**Quadrat Comments:** Walkers and dog-walkers.

**Habitat Type:** LS2 Sandflat (coarse sand)

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 53.169530

**Y Coordinate:** -8.990862

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Coarse sand

**Stability:** Fairy firm

**Substrate Depth:** ~1m

**Slope Degrees:** 5.3

**Aspect:** N



**Water Table Depth:** At the high tide mark

**Comments on Hydrology:** Tide out.

**Quadrat Management:** Visitor use.

**Adjacent Landuse:** Cattle pasture, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:** Herons, rooks, butterflies (small white, red admiral), terns offshore

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100% sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A

**Site:** Traught Beach

**Quadrat Number:** QT BAG2

**Quadrat Description:** Desire lines on bank above beach

**Quadrat Comments:** Used at high tide?

**Habitat Type:** CB1 Vegetated stony bank mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Well used desire line

**Quadrat Number:** 2

**X Coordinate:** 53.169659

**Y Coordinate:** -8.989329

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Rocks and sand

**Stability:** Firm

**Substrate Depth:** >1m

**Slope Degrees:** 7

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:** Above high tide mark

**Quadrat Management:** None. Visitor use.

**Adjacent Landuse:** Beach, cattle pasture, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:** Terns, skylarks, stonechat, hooded crows, bumblebees, hoverflies, dog faeces.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover:

Herb Grass Cover: 60

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 40 coarse sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-50

Height of Tree layer (cm):

Height of Shrub Layer (cm): 5-50

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca ovina</i>	Sheep's fescue	7
<i>Elytrigia juncea</i>	Sand couch grass	6
<i>Potentilla anserina</i>	Silverweed	5
<i>Silene vulgaris</i>	Bladder Campion	5
<i>Sonchus arvensis</i>	Perennial Sowthistle	3

**Site:** Traught Beach

**Quadrat Number:** QT BAG3

**Quadrat Description:** Vegetated bank above beach to LHS of carpark

**Quadrat Comments:**

**Habitat Type:** CB1 Vegetated stony bank mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Visitor sitting in the area. Old fire pits.

**Quadrat Number:** 3

**X Coordinate:** 53.169812

**Y Coordinate:** -8.987940

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** >1m

**Slope Degrees:** 2.6

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:** Above high tide mark

**Quadrat Management:** None. Visitor use.

**Adjacent Landuse:** Cattle pasture, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:** Bumblebees, butterflies, ladybirds.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover:

Herb Grass Cover: 60

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 40 coarse sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-40

Height of Tree layer (cm):

Height of Shrub Layer (cm): 3-40

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Elytrigia juncea</i>	Sand couch grass	6
<i>Achillea millefolium</i>	Yarrow	6
<i>Potentilla reptans</i>	Creeping Cinquefoil	5
<i>Raphanus raphanistrum spp martimum</i>	Sea Radish	4

**Site:** Traught Beach

**Quadrat Number:** QT BAG4

**Quadrat Description:** Bank at top of beach to LHS of carpark

**Quadrat Comments:**

**Habitat Type:** CB1 sandy bank

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Desire line adjacent to quadrat.

**Quadrat Number:** 4

**X Coordinate:** 53.170206

**Y Coordinate:** -8.987455

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Soft

**Substrate Depth:** >1m

**Slope Degrees:** 5.7

**Aspect:** NW

**Water Table Depth:** Below

**Comments on Hydrology:** Just above high tide mark



**Quadrat Management:** None. Visitor use.

**Adjacent Landuse:** Beach, cattle pasture, carpark, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover:

Herb Grass Cover: 60

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 40 coarse sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 10-40

Height of Tree layer (cm):

Height of Shrub Layer (cm): 10-40

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Cochlearia officinalis</i>	Common Scurvygrass	6
<i>Atriplex laciniata</i>	Frosted Orache	6
<i>Tripleurospermum maritimum</i>	Sea Mayweed	5
<i>Leymus arenarius</i>	Lyme Grass	4

**Site:** Traught Beach

**Quadrat Number:** QT BAG5

**Quadrat Description:** Beach in front of Discovery Point

**Quadrat Comments:**

**Habitat Type:** LS2 sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:** Busy

**Quadrat Number:** 5

**X Coordinate:** 53.171129

**Y Coordinate:** -8.986847

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** N/A

**Slope Degrees:** 3.3

**Aspect:** NW



**Water Table Depth:** Between high and low tide mark.

**Comments on Hydrology:** Tide out.

**Quadrat Management:** None. Visitor use – walking, running, swimming, sunbathing.

**Adjacent Landuse:** Carpark.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 coarse sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Traught Beach

**Quadrat Number:** QT BAG6

**Quadrat Description:** Footpath between beach and carpark

**Quadrat Comments:**

**Habitat Type:** BL3 artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 6

**X Coordinate:** 53.171259

**Y Coordinate:** -8.985990

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Concrete

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below.

**Comments on Hydrology:** Well above high tide mark.

**Quadrat Management:** Carpark. Visitor use – walking, sitting.

**Adjacent Landuse:** Carpark, beach.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 coarse sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A



**Site:** Traught Beach

**Quadrat Number:** QT BAG7

**Quadrat Description:** Rocky shore to RHS of beach/carpark

**Quadrat Comments:**

**Habitat Type:** LR3 Sheltered rocky shore

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Some people walked here, including a guy meditating & kids rock-pooling.

**Quadrat Number:** 7

**X Coordinate:** 53.173824

**Y Coordinate:** -8.985141

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 3.8

**Aspect:** NW



**Water Table Depth:** Between high and low tide mark.

**Comments on Hydrology:** Tide coming in.

**Quadrat Management:** Rocky outcrop – visitor use: walking, sitting, dog-walking, rock-pooling.

**Adjacent Landuse:** Beach, pasture, carpark.

**Grazing Comments:** None

**General Faunal Observations:** Barnacles, limpets, periwinkles, pied wagtail.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 50

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 50

Rock Cover: 50 rock

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): .01-50 (tide out)

Height of Shrub Layer (cm):

Height of Tree layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Pelvetia canaliculata</i>	Channelled wrack	6
<i>Fucus vesiculosus</i>	Bladder wrack	6
<i>Lithophyllum incrustans</i>	Encrusting algae	3
<i>Unknown spp.</i>	Mossy algae	
<i>Chtalamus spp.</i>	Stellate barnacle	
<i>Littorina littorea</i>	Edible periwinkle	
<i>Patella (vulgata?)</i>	(Common?) limpet	

**Site:** Traught Beach

**Quadrat Number:** QT BAG8

**Quadrat Description:** Shingle beach around corner (RHS) from main beach/carpark

**Quadrat Comments:** Unconsolidated rocky shore, between high and low tide marks

**Habitat Type:** LR3 Sheltered rocky shore

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** A dog-walker

**Quadrat Number:** 8

**X Coordinate:** 53.173848

**Y Coordinate:** -8.983919

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

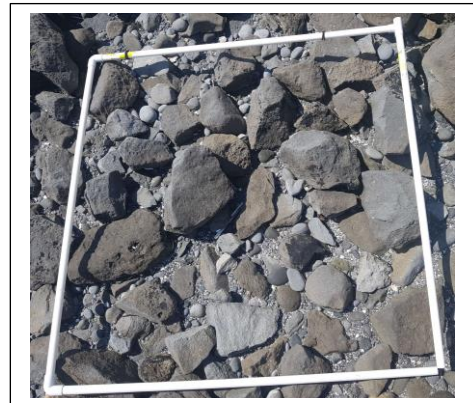
**Substrate:** Rocks and coarse sand

**Stability:** Fairy farm, some loose surface rocks.

**Substrate Depth:** N/A

**Slope Degrees:** 5.2

**Aspect:** N



**Water Table Depth:** Between high and low tide mark.

**Comments on Hydrology:** Tide coming in.

**Quadrat Management:** None – small amount of visitor use: walking, dog-walking.

**Adjacent Landuse:** Beach, pasture, carpark.

**Grazing Comments:** None

**General Faunal Observations:** Barnacles, limpets, periwinkles, pied wagtail.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 shingle/sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A

**Site:** Traught Beach

**Quadrat Number:** QT BAG9

**Quadrat Description:** Cattle pasture adjacent to beach/carpark (RHS)

**Quadrat Comments:** Cattle present, not heavily grazed.

**Habitat Type:** GS1

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Cattle arrived mid-survey.

**Quadrat Number:** 9

**X Coordinate:** 53.173191

**Y Coordinate:** -8.984318

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm.

**Substrate Depth:** >1m?

**Slope Degrees:** 13

**Aspect:** E



**Water Table Depth:** Below.

**Comments on Hydrology:**

**Quadrat Management:** Cattle pasture.

**Adjacent Landuse:** Beach, carpark.

**Grazing Comments:** Cattle present. Low density. Not heavily grazed.

**General Faunal Observations:** Small White and Red Admiral butterflies. Large flock of starlings feeding in the field.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-40

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-40

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Bellis perennis</i>	Daisy	5
<i>Cirsium palustre</i>	Marsh Thistle	2
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Trifolium repens</i>	White clover	5
<i>Lotus corniculatus</i>	Common Bird's-foot Trefoil	3
<i>Lolium perenne</i>	Perennial rye-grass	6
<i>Ranunculus repens</i>	Creeping Buttercup	4
<i>Hypochaeris radicata</i>	Cat's-ear	3
<i>Holcus lanatus</i>	Yorkshire Fog	4
<i>Cynocurus cristatus</i>	Crested Dog's-tail	7
<i>Cerastium fontanum</i>	Common Mouse-Ear	3
<i>Festuca Rubra</i>	Red Fescue	5
<i>Rununculus acris</i>	Crowfoot	3

**Site:** Traught Beach

**Quadrat Number:** QTBAG10

**Quadrat Description:** Cattle pasture adjacent to beach/carpark (LHS)

**Quadrat Comments:** Cattle not present, but heavily grazed.

**Habitat Type:** GS1

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Tiny bit of spill over from kids whose parents were sitting at boundary wall.

**Quadrat Number:** 10

**X Coordinate:** 53.170816

**Y Coordinate:** -8.986305

**Survey Date:** 29/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm.

**Substrate Depth:** >1m?

**Slope Degrees:** 4.4

**Aspect:** E



**Water Table Depth:** Below.

**Comments on Hydrology:**

**Quadrat Management:** Cattle pasture.

**Adjacent Landuse:** Beach, carpark.

**Grazing Comments:** Cattle not present. Regularly grazed. Short sward apart from flowering stems of grasses.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 95

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 5 (sandy soil)

Open Water Cover:

Height of Vegetation (cm): 3-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca Rubra</i>	Red Fescue	7
<i>Lolium perenne</i>	Perennial rye-grass	6
<i>Bellis perennis</i>	Daisy	5
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Lotus corniculatus</i>	Common Bird's-foot Trefoil	5
<i>Achillea millefolium</i>	Yarrow	5
<i>Cynocurus cristatus</i>	Crested Dog's-tail	4
<i>Galium verum</i>	Lady's Bedstraw	4
<i>Rununculus acris</i>	Crowfoot	3

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG1

**Quadrat Description:** Grassy verge adjacent to the road beyond Visitor Station No. 1

**Quadrat Comments:** Disturbed, heavily grazed by sheep.

**Habitat Type:** GS3 Dry-humic acid grassland

**Quadrat Type:** Core

**Quadrat Type Comments:** Just beside road/path. Original access road to Marconi station.

**Quadrat Number:** 1

**X Coordinate:** 52.454769

**Y Coordinate:** -10.020009

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil/Peat

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 9.5

**Aspect:** WSW



**Water Table Depth:** Below

**Comments on Hydrology:** Bog below road level

**Quadrat Management:** Looped walking route for visitors. Access for farmers/turf-cutters.

**Adjacent Landuse:** Bog, patches of heath and rocky outcrop. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:** Heavily grazed by sheep.

**General Faunal Observations:**

Skylark, blackbirds, meadow pipit, Irish hare.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Juncus effuses</i>	Soft rushes	7 (ungrazed)
<i>Trifolium dubium</i>	Lesser trefoil	6
<i>Deschampsia flexuosa</i>	Wavy-hair grass	5
<i>Festuca ovina</i>	Sheep's fescue	4
<i>Unidentified broadleaf grass</i>	Too short for ID	4
<i>Trifolium repens</i>	White clover	4
<i>Cerastium fontanum</i>	Common Mouse-ear	3
<i>Cirsium vulgare</i>	Spear thistle	3

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG2

**Quadrat Description:** Bog below road beyond Visitor Station No. 1

**Quadrat Comments:**

**Habitat Type:** PB3 lowland blanket bog

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Just off road. Original access road to Marconi station.

**Quadrat Number:** 2

**X Coordinate:** 52.454842

**Y Coordinate:** -10.019813

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Soft

**Substrate Depth:** >1m

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** At water table

**Comments on Hydrology:** damp/waterlogged

**Quadrat Management:** None.

**Adjacent Landuse:** Road/path, patches of heath and rocky outcrop. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:** Grazed by sheep.

**General Faunal Observations:**

Skylark, blackbirds, meadow pipit, Irish hare.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 60

Bryophyte Cover: 60

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Bryophtya</i>	Sphagnum mosses	7
<i>Bryophtya</i>	Feathery mosses	7
<i>Drosera rotundifolia</i>	Round-leaved sundew	6
<i>Schoenus nigricans</i>	Black bog rush	5
<i>Molinia caerulea</i>	Purple moor grass	5
<i>Erica tetralix</i>	Cross-leaved heath	5
<i>Hydrocotyle vulgaris</i>	Marsh pennywort	4
<i>Potentilla erecta</i>	Tormentil	3
<i>Lysimachia tenella</i>	Bog pimpernel	3

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG3

**Quadrat Description:** Dry heath off road beyond Visitor Station No. 1

**Quadrat Comments:** Heavily grazed by sheep

**Habitat Type:** HH1 Dry siliceous heath

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Just off road. Original access road to Marconi station.

**Quadrat Number:** 3

**X Coordinate:** 52.453588

**Y Coordinate:** -10.020978

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Fairly firm

**Substrate Depth:** >1m

**Slope Degrees:** 8.7

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** adjacent to blanket bog.



**Quadrat Management:** None. Sheep grazing.

**Adjacent Landuse:** Road/path, patches of heath and rocky outcrop. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:** Heavily grazed by sheep.

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 60

Herb Grass Cover: 40

Bryophyte Cover: 10

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-10

Height of Tree layer (cm):

Height of Shrub Layer (cm): 1-5

Height Herb Layer (cm): 1-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Canula vulgaris</i>	Heather/Ling	7
<i>Ulex gallii</i>	Furze	5
<i>Danthonia decumbens</i>	Heath grass	5
<i>Potentilla erecta</i>	Tormentil	5
<i>Erica tetralix</i>	Cross-leaved heath	4
<i>Molinia caerulea</i>	Purple Moor Grass	4
<i>Juncus effuses</i>	Soft rush	4
<i>Galium saxatile</i>	Heath bedstraw	4
<i>Bryophyta</i>	Feathery moss	4
<i>Leontodon saxatilis</i>	Lesser Hawkbit	3

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG4

**Quadrat Description:** Looped walk - road beyond Visitor Station No. 1

**Quadrat Comments:**

**Habitat Type:** BL3 Artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:** Original access road to Marconi station.

**Quadrat Number:** 4

**X Coordinate:** 52.453593

**Y Coordinate:** -10.020712

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

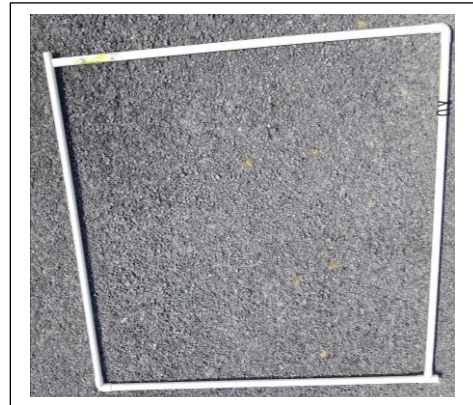
**Substrate:** Gravel

**Stability:** Solid

**Substrate Depth:** >1m

**Slope Degrees:** 3.5

**Aspect:** W



**Water Table Depth:** Below

**Comments on Hydrology:** Adjacent to blanket bog/patches of heath.

**Quadrat Management:** Visitor looped walk. Farmer/turf-cutter access. Tractors, quadbikes, cars.  
**Adjacent Landuse:** Bog, patches of heath and rocky outcrop. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:**

**General Faunal Observations:** Sheep grazing adjacent.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 tarmac/gravel

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A



**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG5

**Quadrat Description:** Mound/rocky outcrop by edge of carpark

**Quadrat Comments:**

**Habitat Type:** HH1/ER1 Dry heath/rocky outcrop mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Exposed and eroded peat – trampling? Although none observed.

**Quadrat Number:** 5

**X Coordinate:** 52.461323

**Y Coordinate:** -10.023272

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat and Rock

**Stability:** Firm

**Substrate Depth:** >1m

**Slope Degrees:** 13

**Aspect:** N



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Visitor use – car and bike parking. Crepe van on one day.

**Adjacent Landuse:** Road, residential, sheep farming, turf-cutting.

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover: 50

Herb Grass Cover: 10

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 10

Bare Peat/Soil Cover: 30

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Ulex gallii</i>	Furze	6
<i>Erica cinerea</i>	Bell Heather	5
<i>Molinia caerulea</i>	Purple Moor Grass	5
<i>Holcus lanatus</i>	Yorkshire fog	4
<i>Hypochaeris radicata</i>	Cat's ear	3
<i>Potentilla erecta</i>	Tormentil	2

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG6

**Quadrat Description:** Wind sculpture behind visitor interpretation station number 3 (re. bog flora & fauna), beside lake

**Quadrat Comments:** Heavily grazed by sheep and trampled by visitors. Evidence of previous turf cutting practice.

**Habitat Type:** HH1/PB3 - Dry heath/bog mosaic – wetter closer to lake edge

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Some people walk down to look at the sculpture

**Quadrat Number:** 6

**X Coordinate:** 52.450620

**Y Coordinate:** -10.024040

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Peat

**Stability:** Fairly firm, bouncy.

**Substrate Depth:** >1m?

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Just below

**Comments on Hydrology:** Adjacent to lake.

**Quadrat Management:** Visitor looped walk.

**Adjacent Landuse:** Bog, patches of heath. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:** Heavily grazed by sheep

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 80

Tree Cover:

Shrub Cover: 35

Herb Grass Cover: 35

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 20

Open Water Cover:

Height of Vegetation (cm): 3-15

Height of Tree layer (cm):

Height of Shrub Layer (cm): <5

Height Herb Layer (cm): 3-15

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Molinia caerulea</i>	Purple Moor Grass	6
<i>Erica tetralix</i>	Cross-leaved heath	6
<i>Canula vulgaris</i>	Ling/Heather	7
<i>Carex sp.</i>	Sedge (too small to ID)	3
<i>Potentilla erecta</i>	Tormentil	5
<i>Bryophyta</i>	Moss spp.	5

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG7

**Quadrat Description:** Edge of path/steps leading to old Alcock and Brown memorial cairn.

**Quadrat Comments:** Some desire lines/erosion around the steps.

**Habitat Type:** BL3/ED3 artificial surface/recolonising bare ground mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 7

**X Coordinate:** 52.445902

**Y Coordinate:** -10.021981

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Paving. Site of old Marconi station.

**Stability:** Firm.

**Substrate Depth:**

**Slope Degrees:** Variable - steps

**Aspect:** N



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Path to monument off main looped walk.

**Adjacent Landuse:** Main path, bog, patches of heath. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:** Area heavily grazed by sheep

**General Faunal Observations:** Irish hare *Lepus timidus*

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 35

Tree Cover:

Shrub Cover:

Herb Grass Cover: 35

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 50 paving stones

Bare Peat/Soil Cover: 15

Open Water Cover:

Height of Vegetation (cm): 3-20

Height of Tree layer (cm):

Height of Shrub Layer (cm): 3-20

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Fescuta sp.</i>	Fescue grass	6
<i>Dushampsia flexuosa</i>	Wavy-hair Grass	6
<i>Trifolium repens</i>	White clover	4
<i>Sedum anglicum</i>	English stonecrop	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Alopecurus pratensis</i>	Meadow foxtail	4
<i>Cirsium vulgare</i>	Thistle	3

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG8

**Quadrat Description:** Lesser used path to workers'/soldiers' buildings off main path.

**Quadrat Comments:**

**Habitat Type:** BL3/ED3 artificial surface/recolonising bare ground mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Not as heavily used as main path.

**Quadrat Number:** 8

**X Coordinate:** 52.445350

**Y Coordinate:** -10.026011

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm.

**Substrate Depth:** N/A

**Slope Degrees:** Variable - steps

**Aspect:** N



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Path to remains of buildings off main looped walk.

**Adjacent Landuse:** Main path, bog, patches of heath. Agriculture (sheep farming), turf-cutting.

**Grazing Comments:** Area heavily grazed by sheep.

**General Faunal Observations:** Skylarks

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 15

Tree Cover:

Shrub Cover:

Herb Grass Cover: 15

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 85 gravel

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3

Height of Tree layer (cm):

Height of Shrub Layer (cm): 3

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Fescuta sp.</i>	Fescue grass	6
<i>Dushampsia flexuosa</i>	Wavy-hair Grass	6
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Prunella vulgaris</i>	Self-heal	5

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG9

**Quadrat Description:** Concrete platform beside Discovery Point.

**Quadrat Comments:** Concrete bridge designed to float above bog.

**Habitat Type:** BL3 artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 52.460652

**Y Coordinate:** -10.022946

**Survey Date:** 27/06/19

**Surveyor:** Aoibheann

**Substrate:** Concrete

**Stability:** Solid.

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Discovery Point and Visitor Interpretation Point No. 1.

**Adjacent Landuse:** Carpark, road, bog, sheep farming, turf-cutting.

**Grazing Comments:** None

**General Faunal Observations:** Skylarks, swallows, meadow pipits, blackbirds (inc. fledglings), wheatear, hooded crow, fritillary butterfly, red admiral butterfly.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 concrete

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Derrigimlagh Bog

**Quadrat Number:** QDBAG10

**Quadrat Description:** grassy verge just off path between visitor stations 1 and 2, at entrance to farm.

**Quadrat Comments:** Lots of rubble/farm waste. Access for farmers, turf-cutters and visitors. Tractors, cars, quadbikes and foot traffic

**Habitat Type:** ED3 recolonising bare ground

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 10

**X Coordinate:** 52.459500

**Y Coordinate:** -10.021184

**Survey Date:** 28/06/19

**Surveyor:** Aoibheann

**Substrate:** Soil/gravel

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 11.5

**Aspect:** E



**Water Table Depth:** Below

**Comments on Hydrology:** Adjacent fields wet – rushes and lilies.

**Quadrat Management:** Visitor, farm and turf-cutting access.

**Adjacent Landuse:** Main road/path, carpark, road, bog, sheep farming, turf-cutting.

**Grazing Comments:** None – sheep fenced off here.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Lolium perenne</i>	Perennial rye-grass	6
<i>Trifolium repens</i>	White clover	6
<i>Bromus hordeaceus</i>	Soft brome	5
<i>Holcus lanatus</i>	Yorkshire fog	5
<i>Juncus effusus</i>	Soft rush	5
<i>Cirsium palustre</i>	Marsh thistle	5
<i>Urtica dioica</i>	Common nettle	4
<i>Agrostis sp.</i>	Bent grass	4
<i>Cynosurus cristatus</i>	Crested dog's-tail	4
<i>Rubus fruticosus</i>	Bramble	4
<i>Ranunculus acris</i>	Meadow buttercup	4
<i>Potentilla anserine</i>	Silverweed	4
<i>Geranium dissectum</i>	Cut-leaved crane's-bill	4
<i>Bellis perennis</i>	Daisy	3
<i>Cerastium fontanum</i>	Common mouse-ear	3
<i>Leontodon saxatilis</i>	Lesser Hawkbit	3

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG1

**Quadrat Description:** Carpark directly adjacent to Discovery Point

**Quadrat Comments:**

**Habitat Type:** BL3 artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:** Quite a lot of floral diversity considering it's the carpark. The site does not seem to receive very many visitors. Perhaps more weather dependent than other sites?

**Quadrat Number:** 1

**X Coordinate:** 54.099126

**Y Coordinate:** -10.061827

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** >2/3m?

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** Carpark/Discovery Point. Visitor use.

**Adjacent Landuse:** Road, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:** Lots of painted lady butterflies.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover:

Herb Grass Cover: 30

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 70 gravel

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Anthyllis vulneraria</i>	Kidney Vetch	8
<i>Holcus lanatus</i>	Yorkshire Fog	6
<i>Lolium perenne</i>	Perennial Rye-grass	6
<i>Festuca Rubra</i>	Red Fescue	5
<i>Bellis perennis</i>	Daisy	5
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Trifolium repens</i>	White clover	5
<i>Potentilla anserine</i>	Silverweed	4
<i>Trifolium pratense</i>	Red clover	2
<i>Plantago coronopus</i>	Buck's-horn plantain	2
<i>Spergularia sp.</i>	Sea spurrey	2

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG2

**Quadrat Description:** Flowery patch between carpark, fish sculpture and picnic bench

**Quadrat Comments:**

**Habitat Type:** ED3 recolonising bare ground

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Very diverse

**Quadrat Number:** 2

**X Coordinate:** 54.099076

**Y Coordinate:** -10.062082

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Gravel/Soil

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 3

**Aspect:** N



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** Emigration Memorial Garden. Visitor use: visiting memorial, picnicking.

**Adjacent Landuse:** Road, carpark, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover: 10

Litter Cover:

Algae Cover:

Rock Cover: 70 gravel

Bare Peat/Soil Cover: 5

Open Water Cover:

Height of Vegetation (cm): 3-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Trifolium pratense</i>	Red Clover	6
<i>Anthyllis vulneraria</i>	Kidney Vetch	6
<i>Lotus corniculatus</i>	Common Bird's-foot Trefoil	6
<i>Erigeron karvinskianus</i>	Mexican Fleabane	5
<i>Holcus lanatus</i>	Yorkshire Fog	4
<i>Festuca rubra</i>	Red Fescue	4
<i>Bryophyta</i>	Feathery moss	4
<i>Trifolium repens</i>	White Clover	4
<i>Leontodon saxatilis</i>	Lesser Hawkbit	3
<i>Plantago lanceolata</i>	Ribwort plantain	3
<i>Anagallis arvensis</i>	Scarlet pimpernel	2
<i>Centarium erythraea</i>	Common Centaury	1



**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG3

**Quadrat Description:** Desire line from carpark to granite boat sculpture

**Quadrat Comments:** Pathway but unmarked or paved

**Habitat Type:** ED3 recolonising bare ground

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 54.099173

**Y Coordinate:** -10.062069

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** Emigration Memorial Garden. Visitor use: visiting memorial, picnicking.

**Adjacent Landuse:** Road, carpark, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover:

Herb Grass Cover: 40

Bryophyte Cover: 40

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 40 gravel

Open Water Cover:

Height of Vegetation (cm): 1-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Poa trivialis</i>	Rough Meadow grass	6
<i>Bryotphyta</i>	Various species	6
<i>Epilobrium hirsutum</i>	Great Willowherb	5
<i>Juncus articulatus</i>	Jointed Rush	5
<i>Bellis perennis</i>	Daisy	5
<i>Medicago lupulina</i>	Black medic	3
<i>Holcus lanatus</i>	Yorkshire Fog	3
<i>Plantago coronopus</i>	Buck's-horn Plantain	2

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG4

**Quadrat Description:** Beside emigration memorial

**Quadrat Comments:**

**Habitat Type:** ED3 recolonising bare ground

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 54.099196

**Y Coordinate:** -10.062578

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Gravel

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** Emigration Memorial Garden. Visitor use: visiting memorial, picnicking.

**Adjacent Landuse:** Road, carpark, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 50

Tree Cover:

Shrub Cover:

Herb Grass Cover: 40

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 50 gravel/sand

Open Water Cover:

Height of Vegetation (cm): 1-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-20 (soft brome)

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Lolium perenne</i>	Perennial rye-grass	8
<i>Bryophyta</i>	Mosses	5
<i>Bromus hordeaceus</i>	Soft brome	3
<i>Bellis perennis</i>	Daisy	2

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG5

**Quadrat Description:** Grass beside concrete path into memorial garden

**Quadrat Comments:**

**Habitat Type:** GA2 amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Regularly mowed

**Quadrat Number:** 5

**X Coordinate:** 54.099431

**Y Coordinate:** -10.062922

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** Emigration Memorial Garden. Visitor use: visiting memorial, picnicking.

**Adjacent Landuse:** Road, carpark, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Holcus lanatus</i>	Yorkshire fog	6
<i>Lolium perennis</i>	Perennial rye-grass	5
<i>Trifolium pratense</i>	Red clover	5
<i>Lotus corniculatus</i>	Common Bird's-foot trefoil	5
<i>Bellis perennis</i>	Daisy	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Trifolium repens</i>	White clover	4
<i>Potentilla anserine</i>	Silverweed	3

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG6

**Quadrat Description:** Flat grassy area in memorial garden, near wall adjacent to road

**Quadrat Comments:** A little damp

**Habitat Type:** GA2 amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Regularly mowed

**Quadrat Number:** 6

**X Coordinate:** 54.099256

**Y Coordinate:** -10.063081

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 3

**Aspect:** E



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** Emigration Memorial Garden. Visitor use: visiting memorial, picnicking.

**Adjacent Landuse:** Road, carpark, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 50

Bryophyte Cover: 40

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Lolium perenne</i>	Perennial rye-grass	7
<i>Bryophyta</i>	Feathery moss	6
<i>Juncus articulatus</i>	Joined rush	5
<i>Trifolium pratense</i>	Red clover	4
<i>Ranunculus repens</i>	Creeping buttercup	3
<i>Prunella vulgaris</i>	Selfheal	2
<i>Ranunculus acris</i>	Meadow buttercup	2

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG7

**Quadrat Description:** Top of stony bank between beach and “boatyard”

**Quadrat Comments:**

**Habitat Type:** CB1 Shingle/gravel banks

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 7

**X Coordinate:** 54.099032

**Y Coordinate:** -10.061161

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Rocks

**Stability:** Fairly firm

**Substrate Depth:**

**Slope Degrees:** 8

**Aspect:** SSW



**Water Table Depth:** Below.

**Comments on Hydrology:** Site is adjacent to shoreline

**Quadrat Management:** None. Boats and trailers parked.

**Adjacent Landuse:** Road, carpark, dispersed residences, harbour/pier, lighthouse (with helipad).

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 90

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 10

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 10-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 10-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	9
<i>Silene uniflora</i>	Sea campion	6
<i>Anthyllis vulneraria</i>	Kidney vetch	5
<i>Trifolium pratense</i>	Red clover	5
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Vicia cracca</i>	Tufted vetch	3
<i>Holcus lanatus</i>	Yorkshire fog	3
<i>Taraxacum sp.</i>	Dandelion	2

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG8

**Quadrat Description:** Beach in front of Discovery Point

**Quadrat Comments:**

**Habitat Type:** LS2 Sandflat

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 54.099279

**Y Coordinate:** -10.061765

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:**

**Slope Degrees:** 3.5

**Aspect:** NNE



**Water Table Depth:** Between high and low tide marks

**Comments on Hydrology:** Tide out

**Quadrat Management:** Harbour

**Adjacent Landuse:** Harbour/pier, lighthouse, road, carpark, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:** Rock pipit, wheatear, gulls, oystercatchers

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover:

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): N/A

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG9

**Quadrat Description:** Rocky shore in front of memorial garden

**Quadrat Comments:**

**Habitat Type:** LR2 moderately exposed rocky shore

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 54.099690

**Y Coordinate:** -10.062606

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Rock

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** various

**Aspect:** N/A



**Water Table Depth:** Between high and low tide marks

**Comments on Hydrology:** Tide out

**Quadrat Management:** Harbour

**Adjacent Landuse:** Harbour/pier, lighthouse, road, carpark, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:** Limpet *Patella vulgata*, Toothed topshell *Osilnus lineatus*, Edible periwinkle *Littorina littorea*, Flat topshell *Gibbula umbilicalis*, beadlet anemone *Actinia equina*

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 10

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 10

Rock Cover: 90

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): N/A

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Chondrus crispus</i>	Carrageen moss	5
<i>Furcellaria lumbricalis</i>	Black carrageen	5
<i>Polysiphonia sp.</i>	Feathery red seaweed	5
<i>Unidentified</i>	Ephemeral green seaweed	5
<i>Lithophyllum incrustans</i>	Encrusting algae	5

**Site:** Blacksod Harbour

**Quadrat Number:** QBHAG10

**Quadrat Description:** Edge of pier above beach

**Quadrat Comments:**

**Habitat Type:** CC1 Pier/harbour

**Quadrat Type:** Core

**Quadrat Type Comments:** Most people parked here, walked the pier and looked at the signs for the lighthouse rather than visiting the Discovery Point itself.

**Quadrat Number:**

10

**X Coordinate:** 54.099112

**Y Coordinate:** -10.060106

**Survey Date:** 04/07/19

**Surveyor:** Aoibheann

**Substrate:** Rock & concrete

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Above mean highwater mark

**Comments on Hydrology:**

**Quadrat Management:** Pier

**Adjacent Landuse:** Harbour, lighthouse, road, discovery point carpark, dispersed residences.

**Grazing Comments:** None

**General Faunal Observations:** Pied wagtail

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 25

Tree Cover:

Shrub Cover:

Herb Grass Cover: 25

Bryophyte Cover:

Litter Cover:

Algae Cover: 50 lichens

Rock Cover: 75

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Plantago coronopus</i>	Buck's-horn plantain	8
<i>Sinlène uniflora</i>	Sea campion	6
<i>Verrucaria maura</i>	Black tar lichen	4
<i>Tephromela atra</i>	Black shields lichen	4
<i>Xanthoria spp.?</i>	Yellow (leafy?) lichen	3



**Site:** Lacken Strand

**Quadrat Number:** QLSAG1

**Quadrat Description:** Beside Discovery Point & Discovery Point signage (LHS)

**Quadrat Comments:**

**Habitat Type:** CM2 Upper Salt Marsh

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 54.274161

**Y Coordinate:** -9.256061

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sandy soil

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A

**Water Table Depth:** Just above

**Comments on Hydrology:** Damp – at upper edge of salt marsh beside road



**Quadrat Management:** Discovery Point – visitor use: walking, dog – walking, parking

**Adjacent Landuse:** Road, dispersed residences, church, cattle grazing.

**Grazing Comments:** None

**General Faunal Observations:** Hares, skylark, swallow, pied wagtail, juvenile blackbirds, pipits

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 90

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 10 sandy soil

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Glaux maritima</i>	Sea milkwort	6
<i>Festuca rubra</i>	Red fescue	6
<i>Plantago maritima</i>	Sea plantain	6
<i>Juncus gerardi</i>	Saltmarsh rush	5
<i>Agrostis stolonifera</i>	Creeping bent grass	4
<i>Trifolium repens</i>	White clover	3
<i>Sagina maritima</i>	Sea pearlwort	3
<i>Triglochin maritima</i>	Sea arrowgrass	3

**Site:** Lacken Strand

**Quadrat Number:** QLSAG2

**Quadrat Description:** Access road in front of Discovery Point

**Quadrat Comments:**

**Habitat Type:** BL3 Artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 2

**X Coordinate:** 54.274128

**Y Coordinate:** -9.255974

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Tarmacadam

**Stability:** Firm (potholes)

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below

**Comments on Hydrology:** Adjacent to saltmarsh, probably liable to flooding

**Quadrat Management:** Discovery Point, access to strand. Visitor use: walking, dog-walking, parking

**Adjacent Landuse:** Road, dispersed residences, church, cattle grazing, strand

**Grazing Comments:** None

**General Faunal Observations:** Hares (TBC), skylark, swallow, pied wagtail, juvenile blackbirds, pipits

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 tarmac

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Lacken Strand

**Quadrat Number:** QLSAG3

**Quadrat Description:** Sandy part of access road to strand

**Quadrat Comments:** Tractor tyre tracks

**Habitat Type:** LS2 Sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 54.273958

**Y Coordinate:** -9.255178

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 2.3

**Aspect:** SW

**Water Table Depth:** Close to high tide mark

**Comments on Hydrology:** Occasional inundation at very high tides



**Quadrat Management:** Access to strand. Visitor use: parking, walking, dog-walking, horse-riding

**Adjacent Landuse:** Road, dispersed residences, church, cattle grazing, strand

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A

**Site:** Lacken Strand

**Quadrat Number:** QLSAG4

**Quadrat Description:** Sand in front of access road – on strand

**Quadrat Comments:** Lots of tyre tracks, foot, horse & dog prints etc. revealed as tide went out

**Habitat Type:** LS2 Sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 54.273794

**Y Coordinate:** -9.254356

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 2.5

**Aspect:** N

**Water Table Depth:** Between high and low tide marks



**Comments on Hydrology:** Tide out

**Quadrat Management:** Strand. Visitor use: walking, dog-walking, horse-riding, driving (not observed)

**Adjacent Landuse:** Cattle grazing, carpark, road, dispersed residences, church.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Lacken Strand

**Quadrat Number:** QLSAG5

**Quadrat Description:** Embryonic dune between strand and saltmarsh

**Quadrat Comments:** Some tyre tracks observed over embryonic dunes

**Habitat Type:** CD1 embryonic dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 54.275082

**Y Coordinate:** -9.254944

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 8

**Aspect:** S



**Water Table Depth:** Below

**Comments on Hydrology:** Close to high tide mark. Tide out

**Quadrat Management:** Strand. Visitor use: walking, dog-walking, horse-riding, driving

**Adjacent Landuse:** Cattle grazing, carpark, road, dispersed residences, church.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 70 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Elymus juncea</i>	Sand couch	10

<b>Site:</b> Lacken Strand		<b>Quadrat Number:</b> QLSAG6	
<b>Quadrat Description:</b> Saltmarsh north of/behind Discovery Point			
<b>Quadrat Comments:</b>			
<b>Habitat Type:</b> CM1 Lower (middle) saltmarsh			
<b>Quadrat Type:</b> Tertiary			
<b>Quadrat Type Comments:</b> Some evidence of driving saltmarsh in the saltmarsh area			
<b>Quadrat Number:</b> 6			
<b>X Coordinate:</b> 54.276447			
<b>Y Coordinate:</b> -9.255280			
<b>Survey Date:</b> 06/07/19			
<b>Surveyor:</b> Aoibheann			
<b>Substrate:</b> Sand			
<b>Stability:</b> Firm			
<b>Substrate Depth:</b> <1m			
<b>Slope Degrees:</b> 3.2			
<b>Aspect:</b> SW			
<b>Water Table Depth:</b> Just below			
<b>Comments on Hydrology:</b>			
<b>Quadrat Management:</b> None.			
<b>Adjacent Landuse:</b> Embryonic dunes, strand, carpark, road, dispersed residences, church.			
<b>Grazing Comments:</b> None			
<b>General Faunal Observations:</b> Dog running about			
<b>Structured Quadrat Cover Values (%)</b>			
Total Vegetation Cover: 95		Litter Cover:	
Tree Cover:		Algae Cover:	
Shrub Cover:		Rock Cover: 5 sand	
Herb Grass Cover:		Bare Peat/Soil Cover:	
Bryophyte Cover:		Open Water Cover:	
Height of Vegetation (cm): 3-30		Height of Shrub Layer (cm):	
Height of Tree layer (cm):		Height Herb Layer (cm): 3-30	
<b>Species Latin Name</b>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>	
<i>Festuca rubra</i>	Red fescue	7	
<i>Armeria maritima</i>	Sea thrift	6	
<i>Plantago maritima</i>	Sea plantain	6	
<i>Glaux maritima</i>	Sea milkwort	5	
<i>Cochlearia officinalis</i>	Common scurvygrass	3	
<i>Sagina maritima</i>	Sea pearlwort	3	

**Site:** Lacken Strand

**Quadrat Number:** QLSAG7

**Quadrat Description:** Saltmarsh close to main road

**Quadrat Comments:**

**Habitat Type:** CM2 upper saltmarsh

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Some evidence of driving saltmarsh in the saltmarsh area

**Quadrat Number:** 7

**X Coordinate:** 54.277023

**Y Coordinate:** -9.255848

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand/silt/mud

**Stability:** Fairly firm

**Substrate Depth:** <1m

**Slope Degrees:** 2

**Aspect:** ENE

**Water Table Depth:** Just below

**Comments on Hydrology:** Tidal channel adjacent to quadrat



**Quadrat Management:** None.

**Adjacent Landuse:** road, strand

**Grazing Comments:** None

**General Faunal Observations:** Dog running about

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 95

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 5 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Aster tripolium</i>	Sea aster	6
<i>Plantago maritima</i>	Sea plantain	6
<i>Juncus gerardi</i>	Saltmarsh rush	5
<i>Glaux maritima</i>	Sea milkwort	5
<i>Festuca rubra</i>	Red fescue	5
<i>Spergularia marina</i>	Lesser sea spurrey	3

**Site:** Lacken Strand

**Quadrat Number:** QLSAG8

**Quadrat Description:** Embryonic sand dune further away from Discovery Point (north)

**Quadrat Comments:**

**Habitat Type:** CD1 Embryonic sand dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 8

**X Coordinate:** 54.276880

**Y Coordinate:** -9.255381

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** <1m

**Slope Degrees:** 8

**Aspect:** ENE



**Water Table Depth:** Just below

**Comments on Hydrology:** Tide out

**Quadrat Management:** None. Strand – walking, dog-walking, horse-riding, kids playing

**Adjacent Landuse:** Strand, saltmarsh, road.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 25

Tree Cover:

Shrub Cover:

Herb Grass Cover: 25

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 75 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Glaux maritima</i>	Sea milkwort	8
<i>Puccinellia maritima</i>	Common saltmarsh grass	5
<i>Elytrigia juncea</i>	Sand couch	4
<i>Spergularia media</i>	Greater sea spurrey	2



**Site:** Lacken Strand

**Quadrat Number:** QLSAG9

**Quadrat Description:** Sandflat to RHS of strand access road

**Quadrat Comments:** Tractor drove from one side of strand to the other (west to east)

**Habitat Type:** LS2 sandflat

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Most people go left

**Quadrat Number:** 9

**X Coordinate:** 54.273388

**Y Coordinate:** -9.254584

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** N/A

**Slope Degrees:** 1.5

**Aspect:** E

**Water Table Depth:** Between high and low tide marks

**Comments on Hydrology:** Tide out



**Quadrat Management:** None. Strand – walking, dog-walking, horse-riding, driving (tractor)

**Adjacent Landuse:** Saltmarsh, cattle grazing.

**Grazing Comments:** None

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Lacken Strand

**Quadrat Number:** QLSAG10

**Quadrat Description:** Saltmarsh close to river mouth

**Quadrat Comments:** Lax-flowered sea-lavender is considered rare on the north & west coasts.

**Habitat Type:** CM1 Lower saltmarsh

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:**  
10

**X Coordinate:** 54.270564

**Y Coordinate:** -9.254351

**Survey Date:** 06/07/19

**Surveyor:** Aoibheann

**Substrate:** Sand/Mud

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 5

**Aspect:** S



**Water Table Depth:** Below

**Comments on Hydrology:** Just above high tide mark

**Quadrat Management:** None.

**Adjacent Landuse:** River, cattle grazing.

**Grazing Comments:** None

**General Faunal Observations:** Hare prints? TBC

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 70

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 30 sand

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 2-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 2-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Plantago maritima</i>	Sea plantain	7
<i>Festuca rubra</i>	Red fescue	5
<i>Glaux maritima</i>	Sea milkwort	5
<i>Limonium humile</i>	Lax-flowered sea-lavender	5 (RARE IN WEST)
<i>Puccinellia maritima</i>	Common saltmarsh grass	5
<i>Armeria maritima</i>	Sea thrift	4
<i>Triglochin maritima</i>	Sea arrowgrass	4

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG1

**Quadrat Description:** Path along coastal walk to RHS of pier

**Quadrat Comments:**

**Habitat Type:** BL3 artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:** Beside bench

**Quadrat Number:** 1

**X Coordinate:** 54.223140

**Y Coordinate:** -9.096378

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Tarmac

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Coastal path. Visitor use: walking, dog-walking, running.

**Adjacent Landuse:** Rocky shore, pasture, residences on far side of pasture

**Grazing Comments:** None observed

**General Faunal Observations:** Birds roosting and foraging on rocky shore or foraging over water: common gull, herring gull, black-headed gull, sandwich tern & juvenile, gannet, house & sand martins, rock & meadow pipits, pied wagtail, starling, hooded crow, rook, jackdaw, cormorant, oystercatcher, redshank, turnstone, heron, house sparrow.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 tarmac

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
N/A		

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG2

**Quadrat Description:** grass alongside coastal path to RHS of pier, above rocky shore

**Quadrat Comments:**

**Habitat Type:** GA2 amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Grass has been mowed but not recently.

**Quadrat Number:** 2

**X Coordinate:** 54.222602

**Y Coordinate:** -9.096558

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 1.5

**Aspect:** W



**Water Table Depth:** Below

**Comments on Hydrology:** Above shoreline

**Quadrat Management:** Beside coastal path. Probably some visitor use: walking, dog-walking, sitting though none observed.

**Adjacent Landuse:** Path, rocky shore, pasture, residences on far side of pasture

**Grazing Comments:** None observed

**General Faunal Observations:** Rock pipit

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	9
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	6
<i>Trifolium pratense</i>	Red clover	5
<i>Trifolium repens</i>	White clover	4
<i>Lolium perenne</i>	Perennial rye-grass	4
<i>Plantago lanceolata</i>	Ribwort plantain	2

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG3

**Quadrat Description:** Rocky bank below coastal path above shoreline

**Quadrat Comments:**

**Habitat Type:** CB1 shingle bank

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** A few individuals walked here but very stony & difficult underfoot

**Quadrat Number:** 3

**X Coordinate:** 54.222182

**Y Coordinate:** -9.096764

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Rocks & sand

**Stability:** Unstable underfoot

**Substrate Depth:** <1m

**Slope Degrees:** 14

**Aspect:** W

**Water Table Depth:** Below

**Comments on Hydrology:** Above mean high tide mark



**Quadrat Management:** None.

**Adjacent Landuse:** Path, pasture, residences on far side of pasture, pier

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 20

Tree Cover:

Shrub Cover:

Herb Grass Cover: 20

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 80

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-50

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-50

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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<i>Tripleurospermum maritimum</i>	Sea mayweed	7
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<i>Tussilago farfara</i>	Colt's foot	7
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**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG4

**Quadrat Description:** Rocky shore with coral fossils

**Quadrat Comments:**

**Habitat Type:** LR2 moderately exposed rocky shore

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** A few individuals walked here but access is stony & difficult underfoot

**Quadrat Number:** 4

**X Coordinate:** 54.222101

**Y Coordinate:** -9.097238

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Limestone

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 3.5

**Aspect:** W

**Water Table Depth:** Between mean high and low tide marks

**Comments on Hydrology:** Tide out



**Quadrat Management:** None.

**Adjacent Landuse:** Path, pasture, residences on far side of pasture, pier

**Grazing Comments:**

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 5

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 5

Rock Cover: 95

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): ~10cm?

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Enteromorpha intestinalis</i>	Gut weed	10
<i>Siphonophyllia (Caninia)</i>	Solitary coral fossils	
<i>Lithostrotion spp.</i>	Colonial coral fossil	

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG5

**Quadrat Description:** Grass between pasture and coastal path near pier

**Quadrat Comments:**

**Habitat Type:** GA2 amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Grass regularly although not recently mowed.

**Quadrat Number:** 5

**X Coordinate:** 54.220573

**Y Coordinate:** -9.096645

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** ~1m

**Slope Degrees:** 2

**Aspect:** W



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Coastal path walk. Visitor use. Benches set into grassy area.

**Adjacent Landuse:** Path, pasture, residences on far side of pasture, pier

**Grazing Comments:** None.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Potentilla reptans</i>	Creeping cinquefoil	7
<i>Lolium perenne</i>	Perennial rye-grass	7
<i>Festuca rubra</i>	Red fescue	6
<i>Trifolium pratense</i>	Red clover	5
<i>Trifolium repens</i>	White clover	5
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Holcus lanatus</i>	Yorkshire fog	3
<i>Taraxacum sp.</i>	Dandelion	2

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG6

**Quadrat Description:** Grass above pier and adjacent to coastal path

**Quadrat Comments:**

**Habitat Type:** GA2 amenity grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Grass regularly although not recently mowed.

**Quadrat Number:** 6

**X Coordinate:** 54.220151

**Y Coordinate:** -9.096141

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 6

**Aspect:** S



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Edge of pier.

**Adjacent Landuse:** Pier, path, pasture, residences on far side of pasture, road

**Grazing Comments:** None.

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 98

Tree Cover:

Shrub Cover:

Herb Grass Cover: 98

Bryophyte Cover: 5

Litter Cover:

Algae Cover:

Rock Cover: 2 with white lichen

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	8
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Anthyllis vulneraria</i>	Kidney vetch	5
<i>Trifolium repens</i>	White clover	5
<i>Bryophyta</i>	Moss species	4
<i>Cerastium fontanum</i>	Common mouse-ear	2
<i>Taraxacum</i>	Dandelion sp.	2
<i>Tephromela atra</i>	Black shields	2
<i>Jacobaea vulgaris</i>	Common ragwort	1



**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG7

**Quadrat Description:** Pier adjacent to wall, slipway end

**Quadrat Comments:**

**Habitat Type:** CC1 pier

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 7

**X Coordinate:** 54.220162

**Y Coordinate:** -9.096879

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Limestone blocks and concrete – corals in some blocks

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 0.5

**Aspect:** S



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Pier. Visitor use – walking, dog-walking, running, swimming, crab-fishing

**Adjacent Landuse:** Road, coastal path, slipway, rocky shore.

**Grazing Comments:** N/A

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 5

Tree Cover:

Shrub Cover:

Herb Grass Cover: 5

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 95

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Plantago coronopus</i>	Buck's horn plantain	7
<i>Cochlaeria officinalis</i>	Common scurvygrass	7
<i>Sagina maritima</i>	Sea pearlwort	4
<i>Spergula marina</i>	Lesser sea-spurrey	4

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG8

**Quadrat Description:** Pier close to water's edge ~ ¾ way down pier

**Quadrat Comments:**

**Habitat Type:** CC1 pier

**Quadrat Type:** Core

**Quadrat Type Comments:** Family crab-fishing with bacon as bait

**Quadrat Number:** 8

**X Coordinate:** 54.220177

**Y Coordinate:** -9.097560

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Limestone blocks and concrete

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 0.4

**Aspect:** S



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Pier. Visitor use – walking, dog-walking, running, swimming, crab-fishing

**Adjacent Landuse:** Road, coastal path, slipway, rocky shore.

**Grazing Comments:** N/A

**General Faunal Observations:** Edible crab (*Cancer pagarus*) & common blenny (*Lipophrys pholis*) in water, attracted to bait.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 10

Tree Cover:

Shrub Cover:

Herb Grass Cover: 10

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 90

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): <3cm

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): <3

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Plantago coronopus</i>	Buck's horn plantain	7
<i>Sagina maritima</i>	Sea pearlwort	7
<i>Cochlaeria officinalis</i>	Common scurvygrass	3
<i>Spergula marina</i>	Lesser sea-spurrey	2

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG9

**Quadrat Description:** Sandy section between pier and rocky shore

**Quadrat Comments:** Designated swimming area

**Habitat Type:** LS2 Sandflat

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Swimmers, kids rock-pooling and digging in sand at a low tide

**Quadrat Number:** 9

**X Coordinate:** 54.219724

**Y Coordinate:** -9.096344

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** N/A

**Slope Degrees:** 1.3

**Aspect:** S

**Water Table Depth:** Between mean high and low tide marks

**Comments on Hydrology:** Tide out



**Quadrat Management:** Beach. Visitor use – walking, dog-walking, swimming, playing.

**Adjacent Landuse:** Rocky shore, slipway, pier, road, residences.

**Grazing Comments:** N/A

**General Faunal Observations:** Lugworm casts (*Arenicola marina*), coiled tubeworm on bladder wrack (*Spirorbis spirorbis*)

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 20

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 20

Rock Cover: 80

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Fucus vesiculosus</i>	Bladder wrack	8
<i>Enteromorpha intestinalis</i>	Gut weed	6
<i>Ulva lactuca</i>	Sea lettuce	4

**Site:** Inishcrone (Enniscrone) Pier

**Quadrat Number:** QIPAG10

**Quadrat Description:** Rocky shore adjacent to designated swimming area & pier

**Quadrat Comments:** Rock pool within quadrat

**Habitat Type:** LR3 sheltered rocky shore

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** A few dog walkers etc.

**Quadrat Number:** 10

**X Coordinate:** 54.2197514

**Y Coordinate:** -9.095988

**Survey Date:** 18/7/19

**Surveyor:** Aoibheann

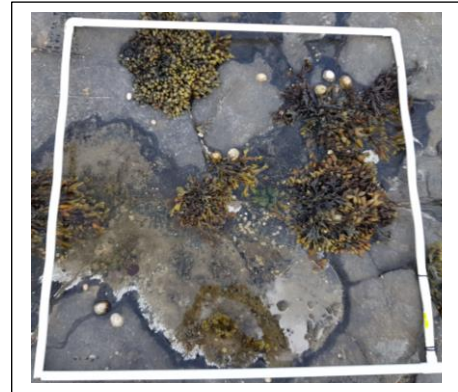
**Substrate:** Fossiliferous limestone (see QIPAG4)

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 6.2 but variable (rock pool)

**Aspect:** SE, strata sloping away from water



**Water Table Depth:** Between mean high and low tide marks

**Comments on Hydrology:** Tide out

**Quadrat Management:** None. Occasional visitor use –dog-walking, playing, swimming.

**Adjacent Landuse:** Sandflat, slipway, pier, road, residences.

**Grazing Comments:** N/A

**General Faunal Observations:** Flat periwinkle (*Littorina obtusata*), rough periwinkle (*Littorina saxatilis*), acorn barnacle (*Semibalanus balanoides*), common limpet (*Patella vulgata*), Beadlet anemone (*Actinia equina*), unidentified crab (Crustacea), common mussel (*Mytilus edulis*), flat topshell (*Gibbula umbilicas*)

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 50

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 50

Rock Cover: 50

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): ~1-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): ~1-20

Species Latin Name	Species English Name	Species Cover (Domin)
<i>Fucus vesiculosus</i>	Bladder wrack	6
<i>Chondrus crispus</i>	Carrageen moss	5
<i>Cladophera rupestris</i>	Rock weed	5
<i>Leathesia marina</i>	Sea Colliflower	5
<i>Lithophilum encrustans</i>	Encrusting algae	5
<i>Enteromorpha intestinalis</i>	Gut weed	4
<i>Ulva lactuca</i>	Sea lettuce	4

**Site:** Rosses Point

**Quadrat Number:** QRPAG1

**Quadrat Description:** Mowed grass behind Discovery Point

**Quadrat Comments:**

**Habitat Type:** GA1 Amenity grassland

**Quadrat Type:** Core

**Quadrat Type Comments:** Managed mowed areas within unmowed dry calcareous grassland. Management working for the most part, but still many desire lines through unmowed areas.

**Quadrat Number:** 1

**X Coordinate:** 54.306936

**Y Coordinate:** -8.574168

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

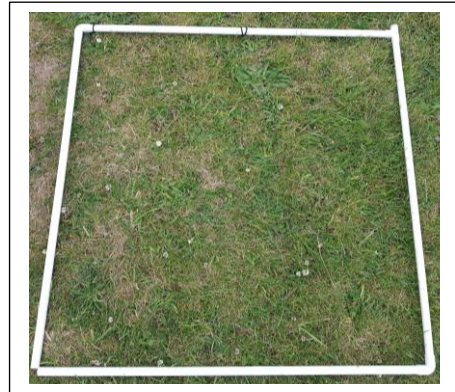
**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** >1m

**Slope Degrees:** 4.5

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Discovery Point. Visitor use - walking, taking photos of views

**Adjacent Landuse:** Road, yacht club, caravan park, carpark

**Grazing Comments:** None observed

**General Faunal Observations:** Ringlet butterflies, Six spot burnet moths, cinnabar moth larvae in adjacent long grass

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue grass	5
<i>Cynosurus cristatus</i>	Crested dog's-tail grass	5
<i>Poa pratensis</i>	Smooth meadow grass	5
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Trifolium repens</i>	White clover	4
<i>Dactylis glomerate</i>	Cock's foot grass	4
<i>Briza media</i>	Quaking grass	4
<i>Hypochaeris radicata</i>	Cat's ear	3
<i>Bellis perennis</i>	Daisy	3

**Site:** Rosses Point

**Quadrat Number:** QRPAG2

**Quadrat Description:** Desire line between Discovery Point and clifftop through long grass

**Quadrat Comments:**

**Habitat Type:** GS1 Dry calcareous grassland

**Quadrat Type:** Core

**Quadrat Type Comments:** Well-worn desire line

**Quadrat Number:** 2

**X Coordinate:** 54.307032

**Y Coordinate:** -8.574213

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** ~1m

**Slope Degrees:** 3.7

**Aspect:** NNW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Close to Discovery Point. Visitor use - walking, taking photos of views

**Adjacent Landuse:** Road, yacht club, caravan park, carpark

**Grazing Comments:** None observed

**General Faunal Observations:** Ringlet butterflies, Six spot burnet moths and chrysalis, cinnabar moth larvae

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue grass	5
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Avenula pubescens</i>	Downy oat grass	5
<i>Cynosurus cristatus</i>	Crested dog's-tail grass	4
<i>Briza media</i>	Quaking grass	4
<i>Trifolium pratense</i>	Red clover	4
<i>Trifolium repens</i>	White clover	3
<i>Potentilla (anglica?)</i>	(Trailing?) Tormentil	4
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	2
<i>Dactylorhiza fuchsia</i>	Common spotted orchid	2

**Site:** Rosses Point

**Quadrat Number:** QRPAG3

**Quadrat Description:** Long grass beside yacht club parking area

**Quadrat Comments:**

**Habitat Type:** GS1 Dry calcareous grassland

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Area surrounded by low wooden barriers.

**Quadrat Number:** 3

**X Coordinate:** 54.306872

**Y Coordinate:** -8.575049

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 13.5

**Aspect:** SW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None.

**Adjacent Landuse:** yacht club carpark, yacht club, road, swimming pier

**Grazing Comments:** None observed

**General Faunal Observations:** as before

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 98

Tree Cover:

Shrub Cover:

Herb Grass Cover: 93

Bryophyte Cover: 5

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 2

Open Water Cover:

Height of Vegetation (cm): 3-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Plantago maritima</i>	Sea plantain	6
<i>Briza media</i>	Quaking grass	6
<i>Festuca rubra</i>	Red fescue	6
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	6
<i>Thymus polytrichus</i>	Wild thyme	5
<i>Potentilla (anglica?)</i>	(Trailing) Tormentil	5
<i>Blackstonia perfoliata</i>	Yellow wort	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Bryophyta</i>	Moss	4
<i>Euphrasia officinalis</i>	Eyebright	3
<i>Galium verum</i>	Lady's bedstraw	3
<i>Linum catharticum</i>	Fairy flax	1

**Site:** Rosses Point

**Quadrat Number:** QRPAG4

**Quadrat Description:** Eroded grassy bank beside swimming pier

**Quadrat Comments:**

**Habitat Type:** GS1 Dry calcareous grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Combination of trampling & erosion – exposed and close to shore

**Quadrat Number:** 4

**X Coordinate:** 54.306938

**Y Coordinate:** -8.576557

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** <1m

**Slope Degrees:** 6.3

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Visitor use – walking, sitting, swimmers

**Adjacent Landuse:** yacht club carpark, yacht club, swimming pool/pier, rocky shore

**Grazing Comments:** None observed

**General Faunal Observations:** as before

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 55

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 45

Open Water Cover:

Height of Vegetation (cm): 1-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Plantago coronopus</i>	Buck's horn plantain	6
<i>Potentilla anserine</i>	Silverweed	6
<i>Festuca rubra</i>	Red fescue	6
<i>Lolium perenne</i>	Perennial rye grass	4
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Cochlearia officinalis</i>	Common scurvygrass	2



**Site:** Rosses Point

**Quadrat Number:** QRPAG5

**Quadrat Description:** Long grass in between two mowed paths near Discovery Point

**Quadrat Comments:**

**Habitat Type:** GS1 Dry calcareous grassland

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 5

**X Coordinate:** 54.307204

**Y Coordinate:** -8.573937

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** ~1m

**Slope Degrees:** 4

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Managed.

**Adjacent Landuse:** Mowed paths, benches, Discovery Point, road, carpark

**Grazing Comments:** None observed

**General Faunal Observations:** as before

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-50

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-50

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Rosa spinosissima</i>	Burnet rose	7
<i>Avenula pubescens</i>	Downy oat grass	6
<i>Briza media</i>	Quaking grass	5
<i>Galium verum</i>	Lady's bedstraw	5
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Cynosurus cristatus</i>	Crested dog's tail	4
<i>Trifolium pratense</i>	Red clover	4
<i>Carex sp.</i>	Sedge	4
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	3
<i>Campanula rotundifolia</i>	Harebell	3

**Site:** Rosses Point

**Quadrat Number:** QRPAG6

**Quadrat Description:** Fixed dune above First Beach, adjacent to desire line through dune

**Quadrat Comments:**

**Habitat Type:** CD3 Fixed dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:** desire line running parallel to beach

**Quadrat Number:** 6

**X Coordinate:** 54.308257

**Y Coordinate:** -8.572154

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** ~3m

**Slope Degrees:** 27.6

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Occasional visitor use

**Adjacent Landuse:** Amenity grassland, beach, road, carpark

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover: 5-10

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	7
<i>Ammophila arenaria</i>	Marram grass	5
<i>Trifolium repens</i>	White clover	4
<i>Byrophyta</i>	Moss species	4
<i>Avenula pubsecens</i>	Downy oat grass	4
<i>Dactylis glomerate</i>	Cock's foot	4
<i>Hypochaeris radicata</i>	Cat's ear	3
<i>Anacamptis pyramidalis</i>	Pyramidal orchid	3
<i>Galium verum</i>	Lady's bedstraw	3
<i>Senecio jacobea</i>	Common ragwort	3
<i>Daucus carota</i>	Wild carrot	2
<i>Anthyllis vulneraria</i>	Kidney vetch	1

**Site:** Rosses Point

**Quadrat Number:** QRPAG7

**Quadrat Description:** Grassy slope behind lifeguard hut on headland between both beaches

**Quadrat Comments:**

**Habitat Type:** GS1 Dry calcareous grassland

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Evidence of erosion & trampling of vegetation, lots of desire lines. Nonetheless, very biodiverse.

**Quadrat Number:** 7

**X Coordinate:** 54.310027

**Y Coordinate:** -8.571815

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** ~1m

**Slope Degrees:** 8.6

**Aspect:** NNW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Visitor use – walking, benches, lifeguard hut, trails between beaches

**Adjacent Landuse:** Beach, carpark

**Grazing Comments:** None observed

**General Faunal Observations:**

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Thymus polytrichus</i>	Wild thyme	6
<i>Carex arenaria</i>	Sand sedge	5
<i>Festuca rubra</i>	Red fescue	5
<i>Anthyllis vulneraria</i>	Kidney vetch	5
<i>Campanula rotundifolia</i>	Harebell	4
<i>Galium verum</i>	Lady's bedstraw	4
<i>Hypochaeris radicata</i>	Cat's ear	4
<i>Euphrasia officinalis</i>	Eyebright	4
<i>Cerastium fontanum</i>	Common mouse-ear	4
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	4
<i>Briza media</i>	Quaking grass	4
<i>Linum catharticum</i>	Fairy flax	3
<i>Ranhanus minor</i>	Yellowrattle	3
<i>Coeloglossum viridae</i>	Frog orchid	1
<i>Blackstonia perfoliata</i>	Yellow wort	1

**Site:** Rosses Point

**Quadrat Number:** QRPAG8

**Quadrat Description:** Recolonising area behind Sligo Surf Lifesaving Team building

**Quadrat Comments:**

**Habitat Type:** BL3/ED3 artificial surface/recolonising bare ground mosaic

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Area not in use. Nature is taking over.

**Quadrat Number:** 8

**X Coordinate:** 54.309644

**Y Coordinate:** -8.570422

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

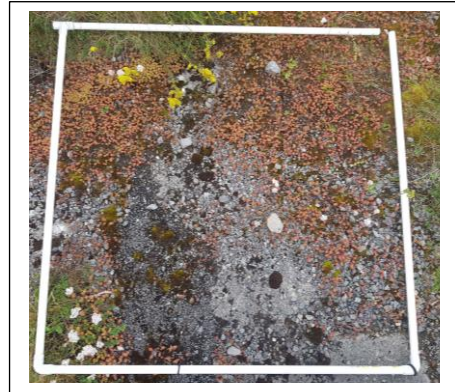
**Substrate:** Tarmac

**Stability:** Firm but eroding

**Substrate Depth:** N/A

**Slope Degrees:** 2.5

**Aspect:** S



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None

**Adjacent Landuse:** SSLT building, headland, beach, grassland, carpark

**Grazing Comments:** None observed

**General Faunal Observations:** Wren with fledglings in grassy banks behind site

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 40

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover: 30

Litter Cover:

Algae Cover:

Rock Cover: 60

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 1-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Sedum anglicum</i>	English stonecrop	8
<i>Bryophyta</i>	Mosses	6
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	4
<i>Festuca rubra</i>	Red fescue	4
<i>Blackstonia perfoliata</i>	Yellow wort	3
<i>Galium verum</i>	Lady's bedstraw	3
<i>Plantago lanceolata</i>	Ribwort plantain	2

**Site:** Rosses Point

**Quadrat Number:** QRPAG9

**Quadrat Description:** Juniper scrub above grassy overflow carpark

**Quadrat Comments:**

**Habitat Type:** GS1 with Juniper Scrub [5130], a priority habitat

**Quadrat Type:** Tertiary

**Quadrat Type Comments:**

**Quadrat Number:** 9

**X Coordinate:** 54.309474

**Y Coordinate:** -8.509925

**Survey Date:** 20/7/19

**Surveyor:** Aoibheann

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:** >1m

**Slope Degrees:** 11.2

**Aspect:** SW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None

**Adjacent Landuse:** Overflow carpark on mowed GS1 habitat

**Grazing Comments:** None observed

**General Faunal Observations:** Common gull, jackdaw, meadow pipit

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 95

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 5

Open Water Cover:

Height of Vegetation (cm): 1-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 1-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Juniperus communis</i>	Juniper	7
<i>Thymus polytrichus</i>	Wild thyme	6
<i>Bryophyta</i>	Mosses	5
<i>Festuca rubra</i>	Red fescue	5
<i>Briza media</i>	Quaking grass	5
<i>Carex arenaria</i>	Sand sedge	5
<i>Anthyllis vulneraria</i>	Kidney vetch	5
<i>Galium verum</i>	Lady's bedstraw	4
<i>Campanula rotundifolia</i>	Harebell	3
<i>Ammophila arenaria</i>	Marram grass	3
<i>Euphrasia officinalis</i>	Eyebright	3



**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT1

**Quadrat Description:** Disused reclaimed land directly adjacent to an unsurfaced carpark.

**Quadrat Comments:** N/A

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Core

**Quadrat Type Comments:** N/A

**Quadrat Number:** 1

**X Coordinate:** 54.630035

**Y Coordinate:** -8.2063759

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Soil/Gravel

**Stability:** Firm

**Substrate Depth:** Beyond 2m

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below surface

**Comments on Hydrology:** N/A

**Quadrat Management:** Carpark adjacent

**Adjacent Landuse:** Pier

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Phleum pratense</i>	Timothy	4
<i>Carex flacca</i>	Blue Sedge	5
<i>Bellis perennis</i>	Daisy	3
<i>Trifolium repens</i>	White Clover	6
<i>Koeleria macrantha</i>	Crested Hairgrass	8
<i>Poa spp.</i>	Poa grass species	4
<i>Lolium perenne</i>	Perennial Rye grass	4
<i>Rumex acetosella</i>	Sheep's Sorrel	2
<i>Filipendula ulmaria</i>	Meadow Sweet	1
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	1
<i>Carex arenaria</i>	Sand Sedge	2

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT2

**Quadrat Description:** Disused reclaimed land directly adjacent to an unsurfaced carpark.

**Quadrat Comments:** N/A

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Core

**Quadrat Type Comments:** N/A

**Quadrat Number:** 2

**X Coordinate:** 54.630035

**Y Coordinate:** -8.2065691

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

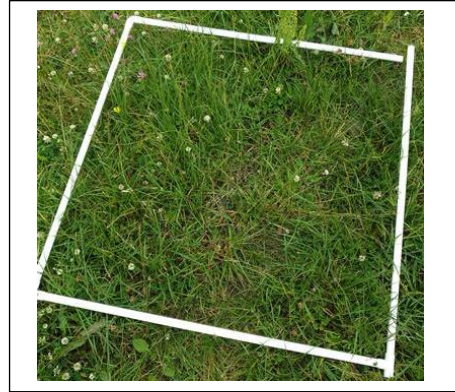
**Substrate:** Soil/Gravel

**Stability:** Firm

**Substrate Depth:** Beyond 2m

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below surface

**Comments on Hydrology:** N/A

**Quadrat Management:** Carpark adjacent

**Adjacent Landuse:** Pier

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Trifolium pratense</i>	Red Clover	3
<i>Trifolium repens</i>	White Clover	5
<i>Poa sp.</i>	Poa Sp.	4
<i>Phleum pratense</i>	Timothy	4
<i>Filipendula ulmaria</i>	Meadow Sweet	2
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	4
<i>Carex spp.</i>	Sedge sp.	1
<i>Rumens acetosella</i>	Sheep's Sorrel	3
<i>Taraxacum sp.</i>	Dandelion	2
<i>Holcus Molina</i>	Meadow Holc	2
<i>Koeleria macrantha</i>	Crested Hair Grass	8
<i>Luzula campestris</i>	Common Reed Grass	1
<i>Plantago lanceolata</i>	Ribwort Plantain	2



**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT3

**Quadrat Description:** Disused reclaimed land directly adjacent to an unsurfaced carpark.

**Quadrat Comments:** N/A

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Core

**Quadrat Type Comments:** N/A

**Quadrat Number:** 3

**X Coordinate:** 54.630035

**Y Coordinate:** -8.2065691

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Soil/Gravel

**Stability:** Firm

**Substrate Depth:** Beyond 2m

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below surface

**Comments on Hydrology:** N/A

**Quadrat Management:** Carpark adjacent

**Adjacent Landuse:** Pier

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 20

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 20

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Trifolium pratense</i>	Red Clover	3
<i>Trifolium repens</i>	White Clover	5
<i>Poa sp.</i>	Poa Sp.	4
<i>Phleum pratense</i>	Timothy	4
<i>Filipendula ulmaria</i>	Meadow Sweet	2
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	4
<i>Carex spp.</i>	Sedge sp.	1
<i>Rumens acetosella</i>	Sheep's Sorrel	3
<i>Taraxacum sp.</i>	Dandelion	2
<i>Holcus Molina</i>	Meadow Holc	2
<i>Koeleria macrantha</i>	Crested Hair Grass	8
<i>Luzula campestris</i>	Common Reed Grass	1
<i>Plantago lanceolata</i>	Ribwort Plantain	2

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT4

**Quadrat Description:** Road verge on the edge of disused reclaimed land adjacent to carpark.

**Quadrat Comments:** N/A

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Secondary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 4

**X Coordinate:** 54.629911

**Y Coordinate:** -8.2070326

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Soil

**Stability:** Semi-firm

**Substrate Depth:** -

**Slope Degrees:** 15

**Aspect:** S



**Water Table Depth:** Below surface

**Comments on Hydrology:** N/A

**Quadrat Management:** None

**Adjacent Landuse:** Unsurfaced carpark and road

**Grazing Comments:**

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover: 5

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 40

Height of Tree layer (cm):

Height of Shrub Layer (cm): 40

Height Herb Layer (cm): 30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Argentina anserina</i>	Silver weed	8
<i>Hippuris vulgaris</i>	Horsetail	3
<i>Cirsium spp.</i>	Thistle sp.	4
<i>Vicia cracca</i>	Tufted Vetch	5
<i>Arrhenatherum elatius</i>	Onion Couch	4
<i>Fescue sp.</i>	Fescue sp.	5
<i>Poa sp.</i>	Poa sp.	4

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT5

**Quadrat Description:** Cobble shoreline at low tide

**Quadrat Comments:** Vast expanses of *Fucus* sp. surrounding

**Habitat Type:** LS1 Shingle/gravel shores

**Quadrat Type:** Secondary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 5

**X Coordinate:** 54.629635

**Y Coordinate:** -8.2067515

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Sand/cobble

**Stability:** Semi-firm (tidal)

**Substrate Depth:** -

**Slope Degrees:** 4

**Aspect:** S



**Water Table Depth:** Tidal

**Comments on Hydrology:** Upper shore

**Quadrat Management:** None

**Adjacent Landuse:** Unsurfaced carpark and pier

**Grazing Comments:**

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 3

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 3

Rock Cover: 50

Bare Peat/Soil Cover: 50

Open Water Cover:

Height of Vegetation (cm): 10

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 10

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Fucus sp.</i>	Wrack seaweed	3

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT6

**Quadrat Description:** Cobble shoreline at low tide

**Quadrat Comments:** Vast expanses of *Fucus* sp. surrounding

**Habitat Type:** LS1 Shingle/gravel shores

**Quadrat Type:** Secondary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 6

**X Coordinate:** 54.629616

**Y Coordinate:** -8.206575

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Sand/cobble

**Stability:** Semi-firm (tidal)

**Substrate Depth:** -

**Slope Degrees:** 4

**Aspect:** S



**Water Table Depth:** Tidal

**Comments on Hydrology:** Central tidal zone

**Quadrat Management:** None

**Adjacent Landuse:** Unsurfaced carpark and pier

**Grazing Comments:**

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 75

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover: 75

Rock Cover: 60

Bare Peat/Soil Cover: 15

Open Water Cover:

Height of Vegetation (cm): 15

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 15

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Fucus sp.</i>	Wrack seaweed	8
<i>Ulva sp.</i>	Sea lettuce	5

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT7

**Quadrat Description:** Reclaimed land directly adjacent to an unsurfaced carpark on seaward edge by the slope to access the beach.

**Quadrat Comments:** N/A

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Core

**Quadrat Type Comments:** N/A

**Quadrat Number:** 7

**X Coordinate:** 54.629971

**Y Coordinate:** -8.2058262

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Soil/Sand/Cobble

**Stability:** Firm

**Substrate Depth:** sparse

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Tidal edge

**Comments on Hydrology:** N/A

**Quadrat Management:** Amenity access adjacent

**Adjacent Landuse:** Pier and unsurfaced carpark

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 80

Tree Cover:

Shrub Cover:

Herb Grass Cover: 80

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 60

Bare Peat/Soil Cover: 10

Open Water Cover:

Height of Vegetation (cm): 40

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 40

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Leymus arenarius</i>	Lyme Couch	7
<i>Filipendula ulmaria</i>	Meadow Sweet	7
<i>Caucus carota ssp gummifer</i>	Sea carrot	3
<i>Tripleurospermum inodorum</i>	May weed	2
<i>Atriplex prostrata</i>	Spear leaved orache	4
<i>Brassica rapa</i>	Wild turnip	2

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT8

**Quadrat Description:** Road verge on the edge of the disused reclaimed land directly adjacent to an unsurfaced carpark.

**Quadrat Comments:** No footpath to area, barrier preventing trafficking by people

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 8

**X Coordinate:** 54.630936

**Y Coordinate:** -8.2057702

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below surface

**Comments on Hydrology:** N/A

**Quadrat Management:** None

**Adjacent Landuse:** Road

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 10

Open Water Cover:

Height of Vegetation (cm): 26

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 26

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Phleum pratense</i>	Timothy	6
<i>Cynosurus cristatus</i>	Dogs Tail	4
<i>Argentina anserina</i>	Silverweed	9

**Site:** Mountcharles Pier

**Quadrat Number:** QMCPAT9

**Quadrat Description:** Road verge on the edge of the disused reclaimed land directly adjacent to an unsurfaced carpark.

**Quadrat Comments:** No footpath to area, barrier preventing trafficking by people

**Habitat Type:** ED3 Disturbed Ground

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** N/A

**Quadrat Number:** 9

**X Coordinate:** 54.631240

**Y Coordinate:** -8.2055410

**Survey Date:** 13/7/19

**Surveyor:** Andrew Torsney

**Substrate:** Soil

**Stability:** Firm

**Substrate Depth:**

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below surface

**Comments on Hydrology:** N/A

**Quadrat Management:** None

**Adjacent Landuse:** Road

**Grazing Comments:** N/A

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 100

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 10

Open Water Cover:

Height of Vegetation (cm): 22

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 22

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Phleum pratense</i>	Timothy	6
<i>Trifolium repens</i>	White clover	2
<i>Argentina anserina</i>	Silverweed	7
<i>Festuca sp.</i>	Fescue	7
<i>Lotus corniculatus</i>	Bird's-foot trefoil	4

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG1

**Quadrat Description:** at Discovery Point in carpark

**Quadrat Comments:**

**Habitat Type:** BL3 Artificial surface

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 1

**X Coordinate:** 55.037818

**Y Coordinate:** -8.347032

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Paving on tarmac

**Stability:** Solid

**Substrate Depth:** N/A

**Slope Degrees:** 0

**Aspect:** N/A



**Water Table Depth:** Below

**Comments on Hydrology:** Just above high tide mark

**Quadrat Management:** Carpark. Visitor use - parking.

**Adjacent Landuse:** Dispersed residences, beach, dunes, airport, access road

**Grazing Comments:** None observed – sign at main road cattle grazing for 3km

**General Faunal Observations:** Badger latrine in grass beside Discovery Point. Not fresh.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover: 100 paving on tarmac

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): N/A

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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N/A



**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG2

**Quadrat Description:** Edge of main (sandy) path to beach

**Quadrat Comments:** Probably eroded dune/machair

**Habitat Type:** LS2/CD1 sandflat/embryonic dune mosaic

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 2

**X Coordinate:** 55.038193

**Y Coordinate:** -8.348720

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Firm

**Substrate Depth:** >1m

**Slope Degrees:** 11

**Aspect:** SW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** Path to beach. Visitor use: walking, dog-walking.

**Adjacent Landuse:** Dispersed residences, beach, dunes, airport

**Grazing Comments:** None observed – sign at main road cattle grazing for 3km. Old cow pat

**General Faunal Observations:** Possibly subject to cattle grazing. Cinnabar moth caterpillars on ragwort.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 70 sand

Open Water Cover:

Height of Vegetation (cm):

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Elytrigia juncea</i>	Sand couch	5
<i>Festuca rubra</i>	Red fescue	5
<i>Tussilago farfara</i>	Colt's-foot	4
<i>Taraxacum</i>	Dandelion sp.	4
<i>Atriplex laciniata</i>	Frosted orache	3
<i>Senecia jacobaea</i>	Common Ragwort	3
<i>Anthyllis vulneraria</i>	Kidney vetch	3

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG3

**Quadrat Description:** "Beginning" of beach between path and lifeguard hut

**Quadrat Comments:**

**Habitat Type:** LS2 sandflat

**Quadrat Type:** Core

**Quadrat Type Comments:**

**Quadrat Number:** 3

**X Coordinate:** 55.039135

**Y Coordinate:** -8.349042

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Soft

**Substrate Depth:** <1m

**Slope Degrees:** 3.5

**Aspect:** NW

**Water Table Depth:** Near high tide line (below)  
– tide appears to come very close to sand dunes

**Comments on Hydrology:** Tide out



**Quadrat Management:** Beach. Visitor use: walking, dog-walking, running, swimming.

**Adjacent Landuse:** Dispersed residences, dunes, airport

**Grazing Comments:** None observed

**General Faunal Observations:** Pied wagtail. Dog faeces.

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 0

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 100 sand

Open Water Cover:

Height of Vegetation (cm): 0

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm):

*Species Latin Name*

**Species English Name**

**Species Cover (Domin)**

N/A

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG4

**Quadrat Description:** Edge of beach/beginning of dunes near lifeguard hut

**Quadrat Comments:**

**Habitat Type:** CD1/2 embryonic dune/marram dune mosaic

**Quadrat Type:** Secondary

**Quadrat Type Comments:**

**Quadrat Number:** 4

**X Coordinate:** 55.039784

**Y Coordinate:** -8.348351

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Soft

**Substrate Depth:** 1-2m

**Slope Degrees:** 20

**Aspect:** W



**Water Table Depth:** Below

**Comments on Hydrology:** Above high tide mark

**Quadrat Management:** None. Visitor use: walking, dog-walking.

**Adjacent Landuse:** Beach, carpark

**Grazing Comments:** None observed

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 40

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 60 sand

Open Water Cover:

Height of Vegetation (cm): 50-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 50-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
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<i>Elytrigia juncea</i>	Sand couch	7
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<i>Ammophila arenaria</i>	Marram grass	7
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**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG5

**Quadrat Description:** Fixed dune behind lifeguard hut, adjacent to path to carpark

**Quadrat Comments:**

**Habitat Type:** CD3 fixed

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Path running through dune system from lifeguard hut to carpark

**Quadrat Number:** 5

**X Coordinate:** 55.039996

**Y Coordinate:** -8.347957

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** >5m

**Slope Degrees:** 9

**Aspect:** NW



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None. Visitor use: walking, dog-walking. Lifeguards route from carpark.

**Adjacent Landuse:** Beach, carpark

**Grazing Comments:** None observed

**General Faunal Observations:** N/A

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 60

Tree Cover:

Shrub Cover:

Herb Grass Cover:

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 40 sand

Open Water Cover:

Height of Vegetation (cm): 10-100

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 10-100

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Ammophila arenaria</i>	Marram grass	8
<i>Elytrigia juncea</i>	Sand couch	4
<i>Tussilago farfara</i>	Colt's-foot	4
<i>Cirsium vulgare</i>	Spear thistle	4
<i>Holcus lanatus</i>	Yorkshire fog	3

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG6

**Quadrat Description:** Machair between dunes and airport/carpark

**Quadrat Comments:**

**Habitat Type:** CD6 machair

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Path running through machair from lifeguard hut to carpark

**Quadrat Number:** 6

**X Coordinate:** 55.039436

**Y Coordinate:** -8.347680

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Sandy soil

**Stability:** Firm

**Substrate Depth:** >5m

**Slope Degrees:** 5.5

**Aspect:** E



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None. Visitor use: walking, dog-walking. Lifeguards route from carpark.

**Adjacent Landuse:** Beach, dunes, carpark, airport

**Grazing Comments:** None observed

**General Faunal Observations:** Meadow pipit

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover: 10

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Festuca rubra</i>	Red fescue	8
<i>Plantago lanceolata</i>	Ribwort plantain	5
<i>Trifolium repens</i>	White clover	5
<i>Galium verum</i>	Lady's bedstraw	5
<i>Bellis perennis</i>	Daisy	4
<i>Euphrasia officinalis</i>	Eyebright	4
<i>Leontodon saxatilis</i>	Lesser Hawkbit	4
<i>Holcus lanatus</i>	Yorkshire fog	4
<i>Bryophyta</i>	Mosses	4
<i>Ammophila arenaria</i>	Marram grass	3
<i>Anacamptis pyramidalis</i>	Pyramidal orchid	3
<i>Cerastium fontanum</i>	Common mouse-ear	3
<i>Linum catharticum</i>	Fairy flax	2
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	2
<i>Carex arenaria</i>	Sand sedge	2

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG7

**Quadrat Description:** Machair between dunes and airport/carpark

**Quadrat Comments:**

**Habitat Type:** CD6 machair

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** In between paths running through machair from lifeguard hut to carpark

**Quadrat Number:** 7

**X Coordinate:** 55.039975

**Y Coordinate:** -8.346859

**Survey Date:** 11/7/19

**Surveyor:** Aoibheann

**Substrate:** Sandy soil

**Stability:** Firm

**Substrate Depth:** >5m

**Slope Degrees:** 4

**Aspect:** E



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None.

**Adjacent Landuse:** Beach, dunes, carpark, airport

**Grazing Comments:** None observed

**General Faunal Observations:** Meadow pipit, skylark, cinnabar moth larvae, white-tailed bumblebee

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 90

Bryophyte Cover: 20

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-30

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-30

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Bryophyta</i>	Mosses	4
<i>Festuca rubra</i>	Red fescue	8
<i>Holcus lanatus</i>	Yorkshire fog	4
<i>Gallium verum</i>	Lady's bedstraw	5
<i>Euphrasia officinalis</i>	Eyebright	5
<i>Anthyllis vulneraria</i>	Kidney vetch	3
<i>Trifolium repens</i>	White clover	5
<i>Ammophila arenaria</i>	Marram grass	3
<i>Plantago lanceolata</i>	Ribwort plantain	3
<i>Carex anernaria</i>	Sand sedge	3
<i>Odontites verrus</i>	Red bartsia	4
<i>Crepis capillaris</i>	Smooth Hawk's beard	2
<i>Polygala vulgaris</i>	Common milkwort	5
<i>Achillea millefolium</i>	Yarrow	3

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG8

**Quadrat Description:** Embryonic dune at rocks at far end of beach

**Quadrat Comments:**

**Habitat Type:** CD1 Embryonic dune

**Quadrat Type:** Secondary

**Quadrat Type Comments:** Footprints. Access point between beach and dunes.

**Quadrat Number:** 8

**X Coordinate:** 55.048858

**Y Coordinate:** -8.342565

**Survey Date:** 12/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly loose/soft

**Substrate Depth:** <1m

**Slope Degrees:** ~ 5 (variable)

**Aspect:** W



**Water Table Depth:** Below

**Comments on Hydrology:** Above most high tides

**Quadrat Management:** None – visitor use: walking

**Adjacent Landuse:** Beach, dunes, airport

**Grazing Comments:** None observed

**General Faunal Observations:** flies, beetles, sand martins

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 30

Tree Cover:

Shrub Cover:

Herb Grass Cover: 30

Bryophyte Cover:

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover: 70 sand

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Triplopermum maritimum</i>	Sea mayweed	7
<i>Ammophila arenaria</i>	Marram	7
<i>Honckenya peploides</i>	Sea sandwort	5
<i>Festuca rubra</i>	Red fescue	3
<i>Elytrigia juncea</i>	Sand couch	3
<i>Taraxacum sp.</i>	Dandelion species	2

**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG9

**Quadrat Description:** Fixed dune on top of rocks at far end of beach

**Quadrat Comments:**

**Habitat Type:** CD3 Fixed dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** To the side of a worn path (viewpoint)

**Quadrat Number:** 9

**X Coordinate:** 55.049095

**Y Coordinate:** -8.342765

**Survey Date:** 12/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand and rock

**Stability:** Firm

**Substrate Depth:** 2-3m

**Slope Degrees:** Various – uneven surface

**Aspect:** E



**Water Table Depth:** Below

**Comments on Hydrology:**

**Quadrat Management:** None – visitor use: walking

**Adjacent Landuse:** Beach, dunes, airport

**Grazing Comments:** None observed

**General Faunal Observations:** Sand martins

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 50

Bryophyte Cover: 50

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 5-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 5-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Bryophyta</i>	Moss species	8
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Hypochaeris radicata</i>	Cat's ear	4
<i>Trifolium repens</i>	White clover	3
<i>Festuca rubra</i>	Red fescue	7
<i>Holcus lanatus</i>	Yorkshire fog	4
<i>Lotus corniculatus</i>	Common bird's-foot trefoil	5
<i>Anthyllis vulneraria</i>	Kidney vetch	2
<i>Thymus polytrichus</i>	Wild thyme	5
<i>Centarium erythraea</i>	Common centaury	3
<i>Poa pratensis</i>	Smooth meadow grass	2
<i>Ammophila arenaria</i>	Marram grass	2



**Site:** Carrickfinn Beach

**Quadrat Number:** QCBAG10

**Quadrat Description:** Fixed dune beyond far end of beach

**Quadrat Comments:**

**Habitat Type:** CD3 Fixed dune

**Quadrat Type:** Tertiary

**Quadrat Type Comments:** Just off regularly used path to caravan area

**Quadrat Number:** 10

**X Coordinate:** 55.049962

**Y Coordinate:** -8.342773

**Survey Date:** 12/7/19

**Surveyor:** Aoibheann

**Substrate:** Sand

**Stability:** Fairly firm

**Substrate Depth:** 5-10m

**Slope Degrees:** Various – uneven surface

**Aspect:** E



**Water Table Depth:** Below

**Comments on Hydrology:** Damp

**Quadrat Management:** None – visitor use: walking, dog-walking, running

**Adjacent Landuse:** Beach, airport

**Grazing Comments:** None observed

**General Faunal Observations:** Ravens x 4, cinnabar moth larvae, soldier beetles, six spot burnet larvae

**Structured Quadrat Cover Values (%)**

Total Vegetation Cover: 100

Tree Cover:

Shrub Cover:

Herb Grass Cover: 50

Bryophyte Cover: 50

Litter Cover:

Algae Cover:

Rock Cover:

Bare Peat/Soil Cover:

Open Water Cover:

Height of Vegetation (cm): 3-60

Height of Tree layer (cm):

Height of Shrub Layer (cm):

Height Herb Layer (cm): 3-60

<i>Species Latin Name</i>	<b>Species English Name</b>	<b>Species Cover (Domin)</b>
<i>Bryophyta</i>	Moss species	8
<i>Gallium verum</i>	Lady's bedstraw	5
<i>Rhinanthus minor</i>	Yellowrattle	5
<i>Plantago lanceolata</i>	Ribwort plantain	4
<i>Anacamptis pyramidalis</i>	Pyramidal orchid	3
<i>Euphrasia officinalis</i>	Eyebright	5
<i>Ammophila arenaria</i>	Marram	3
<i>Festuca rubra</i>	Red fescue	5
<i>Holcus lanatus</i>	Yorkshire fog	4
<i>Trifolium repens</i>	White clover	4
<i>Prunella vulgaris</i>	Self-heal	3
<i>Cerastium fontanum</i>	Mouse-ear	2
<i>Thymus polytrichus</i>	Wild thyme	4