PHASE 1 HABITAT SURVEY REPORT



1.0 GENERAL DETAILS

Site Name	Harras Moor			
Job Number	5060.Eco.HarrasMoor	Doc. Ref	5060.Eco.HarrasMoor.007 V2	
Site Location	Whitehaven, West Cumbria			
Date(s)	28/09/2017, 17/11/2017, 18/04	28/09/2017, 17/11/2017, 18/04/2018		
Surveyor(s)	lan Holland (FISC Level 3), Phil Askew (FISC Level 3) and Lynsey Crellin (FISC Level 5)			
Survey Constraints	None, the survey was initially for Phase 1 habitat surveys.			
Methods	JNCC Phase 1 habitat survey (2010)			
Drawing Ref:	G5060.Eco.HarrasMoorEcoandArb.004			
Target Notes:	Within this document			

	Written	Checked	Authorised
Initial	LAC	FBH	FBH





2.0 HABITAT SURVEY RESULTS:

Habitat Type	Protection / Status	Target Note(s)
Semi-natural broad-leaved	Section 41	TN11
woodland		

Description:

Midgey Wood is a block of broadleaved semi-natural woodland adjacent to the western boundary of the site. This is designated as Ancient Woodland. A woodland NVC survey was carried out in April 2018 and is reported separately. This survey noted a number of ancient woodland indicator ground flora species, including native bluebell *Hyacinthoides non-scripta* and opposite-leaved golden saxifrage *Chrysosplenium oppositifolium*. The canopy is dominated by sycamore *Acer pseudoplatanus* with English oak *Quercus robur*.

Habitat Type	Protection / Status	Target Note(s)
Plantation woodland	None	TN4

Description:

Many of the fields have bands of mixed plantation woodland along their boundaries which act as shelter belts. Collectively, these woodlands form a valuable habitat network across the site and help link Midgey Wood to the wider landscape to the east. Species noted in this woodland include crack willow *Salix fragilis*, Pine species *Pinus* spp., hawthorn *Crataegus monogyna*, rowan *Sorbus aucuparia*, English oak *Quercus robur*, holly *Ilex aquifolium*, ash *Fraxinus excelsior*, hazel *Corylus avellana*, silver birch *Betula pendula* and sycamore *Acer pseudoplatanus*.

Habitat Type	Protection / Status	Target Note(s)
Scattered Broadleaved Trees		TN17, 18

Description:

Self-seeded young scattered trees are found in areas of unmanaged grassland, for example at TN17 and 18. The species found here are predominantly alder *Alnus glutinosa*, and willow *Salix* sp.

Habitat Type	Protection / Status	Target Note(s)
Scrub	None	TN14, 17, 21, 20, 22
00.00	110110	11111, 11, 21, 20, 22

Description:

Areas of dense scrub are found adjacent to the turning circle at the end of Caldbeck Road, around the margins of the former playing fields at TN14, and in the area of unmanaged marshy grassland at TN21. Scattered scrub is found across the site in unmanaged areas of grassland, for example at TN17, 20 and 22. The scrub is dominated by bramble *Rubus fruticosus* agg., but blackthorn *Prunus spinosa*, hawthorn, and willow species *Salix* sp. are also found frequently.

Habitat Type	Protection / Status	Target Note(s)
Species-poor semi-improved	None	TN3, 8, 10, 13, 19
neutral grassland		

Description:

The majority of the site is comprised of semi-improved grassland (SI), much of which is species-poor and heavily grazed by horses or sheep. These areas tend to be dominated by perennial ryegrass *Lolium perenne*, with a few other species including Yorkshire fog *Holcus lanatus*, Soft rush *Juncus effusus* and creeping buttercup *Ranunculus repens*.

The field at TN8 slopes downwards to the west, and becomes more marshy towards the boundary at the bottom of the slope. It also becomes more diverse, with additional species such as oval sedge *Carex leporina*, crested dog's tail *Cynosurus cristatus* and blinks *Montia fontana*. *Galium aparine*, nettles and thistles *Cirsium* spp. *Herb*-Robert *Geranium robertianum* and Timothy were also present. This area does not appear to have been managed for some time and is becoming encroached by scrub.

	Habitat Type	Protection / Status	Target Note(s)
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Habitat Type	Protection / Status	Target Note(s)
Species-poor modified neutral	None	TN2, 6, 14
grassland ¹		

Description:

A small area in the centre of site (TN2) and a former playing field in the east (TN14) are composed of species poor modified neutral grassland. These areas appear to be unmanaged and are not currently grazed.

TN2 is open to the public and is evidently well used by dog walkers. It is dominated by a few coarse grass species (cock's foot *Dactylis glomerata* and false-oat grass *Arrhenatherum elatius*), with some common forb species, such as creeping buttercup, creeping thistle *Cirsium arvense* and broadleaved dock *Rumex obtusifolius*.

TN14 is a playing field which has fallen into disuse and is becoming encroached by scrub and tall ruderal herb around the margins. The ground is quite marshy and soft rush has colonised much of the field. The margins are more diverse than the centre and a species of orchid was noted here.

Habitat Type	Protection / Status	Target Note(s)
Marshy Grassland	None	TN7, 15, 17, 18, 20, 24

Description:

The land generally is very wet, and areas of marshy grassland dominated by soft rush are found frequently across the site. Tufted hair grass *Deschampsia caespitosa* is also common in these areas. These areas of grassland are most diverse where they are not grazed. Species recorded in the less disturbed areas (TN7, 15, 17, 18, 20, 24) include orchid species, hard rush *Juncus inflexus*, compact rush *Juncus conglomeratus*, hemp agrimony *Agrimonia eupatoria*, wild angelica *Angelica sylvestris*, knapweed *Centaurea nigra* and sedge species *Carex* sp.

The band of marshy grassland at TN21, which separates a horse-grazed field from the existing housing estate is heavily used by dog walkers and contains a number of ornamental species, which are likely to have either been fly-tipped or escaped from adjacent gardens. Despite the heavily disturbed nature and relatively small size of this habitat, it supports a surprisingly diverse flora, including orchid species, and occasional clumps of heather, which are a possible relict from when the land was a heath.

A small unmanaged area at TN20 is a mosaic of marshy grassland, swamp, tall ruderal herb and modified neutral grassland, with scattered trees and scrub. Tufted hair-grass *Deschampsia caespitosa*, great willowherb *Epilobium hirsutum* and soft rush were frequent here, with occasional reed canary-grass *Phalaris arundinacea*. Introduced species such as yellow loosetrife *Lysimachia vulgaris* and montbretia *Crocosmia* x *crocosmiiflora*.

Habitat Type	Protection / Status	Target Note(s)	
Marshy Grassland	None	TN7, 15, 17, 18, 20, 24	
Description:			

A large patch of continuous bracken *Pteridium aquilinum* is found adjacent to the turning circle at the end of Caldbeck Road. Bracken is also found scattered occasionally throughout other habitats across the site.

Habitat Type	Protection / Status	Target Note(s)
Tall ruderal herb	None	TN2, 6, 14, 20

¹ The neutral grassland categories detailed within the Phase 1 Habitat Survey Handbook are concentrated on grassland associated with rural situations (pastures and meadows), as such it was agreed with JNCC in 2005 (P. Gateley, pers. comm.) that neutral grassland habitats that don't easily fit within these categories, usually within urban or industrial areas, can be referred to as modified neutral grassland –

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^{&#}x27;Modified neutral grassland is not derived from agricultural grassland and the terms semi-improved and improved do not apply. Some modified neutral grassland may be species-rich but many swards are dense, coarse and species-poor. Modified neutral grassland naturally regenerates on disturbed ground and is unmanaged. It most commonly occurs in urban areas and on post-industrial land'.



	Habitat Type	Protection / Status	Target Note(s)
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Description:

Tall ruderal herb is found as a mosaic with other habitats in unmanaged areas of the site, such as at TN2, 6, 20, and the margins of TN14. There is also a large patch of tall ruderal herb dominated by rosebay willowherb at the edge of the former playing fields.

Habitat Type	Protection / Status	Target Note(s)
Standing water	Section 41	TN9, 18, 21, 22

Description:

Although there are no permanent ponds on site, partially wet ditches are found in the west of the site at TN18, and small areas of shallow water are found at TN9, 21 and 22. These features do not appear to permanently hold water, and do not contain a diverse flora.

Habitat Type	Protection / Status	Target Note(s)
Species-poor hedge	Section 41	TN6, 11, 12, 16

Description:

There is an old defunct hedgerow along the northern border of the site (TN12) that is dominated by hawthorn *Cratageus monogyna*. There is a wall/bank along the base of the hedgerow, upon which species such as broad buckler fern *Dryopteris dilatata* and foxglove *Digitalis purpurea* were growing.

Defunct hawthorn dominated hedgerows are also found along the boundary between the site and Midgey Wood (TN11), in the corner of the field at TN6, and along the boundary of the former playing field at TN16.

A hedgerow assessment was carried out on 17th April 2018. No hedgerows were found to be species rich, or 'Important' under the ecology criteria of the Hedgerow Regulations (1997).

Habitat Type	Protection / Status	Target Note(s)
Walls	None	TN10, 12, 16

Description:

Stone walls define some of the boundaries on site, including the boundary along Harras Road, and the western boundary of the field at TN10. There are also banks reinforced with stone along the hedgerows at TN12 and TN16. Rabbit burrows were noted in these areas.

Habitat Type	Protection / Status	Target Note(s)
Arable	None	N/A

Description:

Caldbeck Road runs through the centre of the site. This area has no ecological value.

3.0 ADDITIONAL NOTES:

Non-native invasive species (Wildlife and Countryside Act Schedule 9) are present within the survey area.

A species of cotoneaster was recorded on the site boundary in Midgey Wood. Due to the time of year it was not possible to establish the exact species because of a lack of identifying features. Many cotoneaster species are listed under Schedule 9 species of the Wildlife and Countryside Act. Therefore we would recommend that a precautionary approach should be taken and this should be treated as a Schedule 9 invasive species.

The Schedule 9 non-native species montbretia and Himalayan balsam Impatiens glandulifera were

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recorded in areas around the site. See habitat survey drawing for locations.

Rhododendron *Rhododendron ponticum* dominates the understorey of Midgey Wood in places. This rhododendron is also a non-native species listed on Schedule 9 of the Wildlife and Countryside Act.

Native bluebell *Hyacinthoides non-scripta* was noted in Midgey Wood. No other protected (Schedule 8 of the Wildlife and Countryside Act 1981, as amended) plant species were noted during the survey.

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4.0 PHOTOGRAPHIC RECORD:



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Harras Moor Phase 1 Habitat Survey - Target Notes

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare (within the target note area).

Target Note 1

Patch of dense scrub at edge of turning circle.

Rubus fruticosus agg.	Bramble	D
Crataegus monogyna	Hawthorn	0
Pteridium aquilinum	Bracken	0
Crocosmia x crocosmiiflora	Montbretia	R

Target Note 2

Area of unmanged tussocky, modified neutral grassland and tall ruderal herb mosaic.

Dactylis glomerata	Cock's-foot	Α
Arrhenatherum elatius	False Oat-grass	F
Cirsium arvense	Creeping Thistle	F
Lolium perenne	Perennial Ryegrass	F
Ranunculus repens	Creeping Buttercup	F
Rumex obtusifolius	Broad-leaved Dock	F
Urtica dioica	Nettle	F
Festuca rubra	Red Fescue	0
Heracleum sphondylium	Hogweed	0
Holcus lanatus	Yorkshire-fog	0
Taraxacum officinale agg.	Dandelion	0
Cerastium fontanum	Common Mouse-ear	R
Epilobium hirsutum	Great Willowherb	R
Juncus effusus	Soft Rush	R
Plantago major	Greater Plantain	R
Pteridium aquilinum	Bracken	R
Rumex acetosa	Common Sorrel	R

Target Note 3

Species-poor heavily grazed semi improved neutral grassland with marshy tendencies. Mostly very short sward, apart from the marshiest areas.

Lolium perenne	Perennial Ryegrass	D
Ranunculus repens	Creeping Buttercup	F
Juncus effusus	Soft Rush	0
Cynosurus cristatus	Crested Dog's-tail	R
Festuca rubra	Red Fescue	R
Holcus lanatus	Yorkshire-fog	R
Ranunculus acris	Meadow Buttercup	R
Rumex obtusifolius	Broad-leaved Dock	R
Urtica dioica	Nettle	R

Target Note 4

Shelter-belt planting of semi-mature mixed plantation woodland. Dense, scrubby understorey in places. Shelter belt along northern boundary of north-central semi-improved grassland field open and grazed by livestock - heavily impoverished ground flora (species poor semi-improved grassland).

Fraxinus excelsior	Ash	D
Rubus fruticosus agg.	Bramble	Α
Dryopteris dilatata	Broad Buckler-fern	F
Prunus spinosa	Blackthorn	F
Alnus glutinosa	Alder	0
Crataegus monogyna	Hawthorn	0
Pinus sylvestris	Scots Pine	0
Pteridium aquilinum	Bracken	0
Salix fragilis	Crack Willow	0

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Acer pseudoplatanus	Sycamore	R
Hypericum androsaemum	Tutsan	R
Rosa canina agg.	Dog Rose	R
Silene dioica	Red Campion	R
Sorbus aucuparia	Rowan	R
Sorbus intermedia	Swedish Whitebeam	R

Marshy grassland in wetter area of semi-improved grassland field.

Juncus effusus	Soft Rush	D
Ranunculus repens	Creeping Buttercup	Α
Montia fontana	Blinks	0
Angelica sylvestris	Wild Angelica	R
Cardamine pratensis	Cuckooflower	R
Cirsium palustre	Marsh Thistle	R
Rumex acetosa	Common Sorrel	R

Target Note 6

Tussocky, unmanaged area of modified neutral grassland. Very uneven ground, many hollows and bunds, does not appear to have been grazed. Similar species mix to TN2, plus an orchid species and yarrow.

Reptile potential.

Heavily defunct, remnant hawthorn hedge in the corner of the field.

Target Note 7

Marshy grassland with numerous small mammal runs and latrines.

Juncus effusus	Soft Rush	D
Deschampsia cespitosa	Tufted Hair-grass	F
Agrostis stolonifera	Creeping Bent	0
Epilobium hirsutum	Great Willowherb	0
Rumex acetosa	Common Sorrel	0

Target Note 8

Species-poor semi-improved grazed field, marshy tendencies.

Lolium perenne	Perennial Ryegrass	D
Ranunculus repens	Creeping Buttercup	F
Juncus effusus	Soft Rush	Ō
Cerastium fontanum	Common Mouse-ear	R
Glyceria fluitans	Floating Sweet-grass	R
Holcus lanatus	Yorkshire-fog	R
Poa annua	Annual Meadow-grass	R
Ranunculus acris	Meadow Buttercup	R
Trifolium repens	White Clover	R

Target Note 9

Eutrophic wet flush, with areas of open, scummy water.

Glyceria fluitans	Floating Sweet-grass	D
Ranunculus hederaceus	Ivy-leaved Crowfoot	F
Ranunculus repens	Creeping Buttercup	F
Poa annua	Annual Meadow-grass	0
Veronica beccabunga	Brooklime	0
Callitriche sp.	Water Starwort species	R

Target Note 10

TN8 becomes marshier further down the slope, with more soft rush and slightly higher

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speciesdiversity.

Lolium perenne	Perennial Ryegrass	Α
Juncus effusus	Soft Rush	F
Alopecurus geniculatus	Marsh Foxtail	0
Cynosurus cristatus	Crested Dog's-tail	0
Festuca rubra	Red Fescue	0
Glyceria fluitans	Floating Sweet-grass	0
Montia fontana	Blinks	0
Poa annua	Annual Meadow-grass	0
Trifolium repens	White Clover	0
Carex leporina	Oval Sedge	R
Holcus lanatus	Yorkshire-fog	R

Target Note 11

Midgey Wood - viewed from boundary as no access. Trees appear mature but stunted, likely due to exposed conditions. Stone wall/bank along margin, with remnant hedge along and mostly dry ditches either side. Understorey appears diverse, even out of season.

Fraxinus excelsior	Ash	D
Dryopteris dilatata	Broad Buckler-fern	F
Hedera helix	lvy	F
Rhododendron ponticum	Rhododendron	F
Alnus glutinosa	Alder	0
llex aquifolium	Holly	0
Lonicera periclymenum	Honeysuckle	0
Oxalis acetosella	Wood Sorrel	0
Quercus robur	English Oak	0
Rubus fruticosus agg.	Bramble	0
Salix species	Willow species	0
Silene dioica	Red Campion	0
Angelica sylvestris	Wild Angelica	R
Digitalis purpurea	Foxglove	R
Malus sylvestris	Crab-apple	R
Peltigera canina	Dog Lichen	R
Ulex europaeus	Gorse	R

Target Note 12

Old defunct hedge along wall/bank. Numerous rabbit holes

Crataegus monogyna	Hawthorn	D
Dryopteris dilatata	Broad Buckler-fern	0
Rubus fruticosus agg.	Bramble	0
Silene dioica	Red Campion	0
Digitalis purpurea	Foxglove	R
Dryopteris filix-mas	Male-fern	R
Ilex aquifolium	Holly	R
Quercus robur	English Oak	R

Target Note 13

Tussocky, unmanaged semi-improved grassland.

Holcus lanatus	Yorkshire-fog	D
Agrostis stolonifera	Creeping Bent	0
Cirsium arvense	Creeping Thistle	0
Cynosurus cristatus	Crested Dog's-tail	0
Lolium perenne	Perennial Ryegrass	0
Ranunculus repens	Creeping Buttercup	0
Rumex obtusifolius	Broad-leaved Dock	0
Dactylis glomerata	Cock's-foot	R

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Former playing fields. Now unmanaged modified neutral grassland. Margins are more diverse, and the grassland here has developed into a mosaic with bramble and tall ruderal herb. The field is very wet underfoot in places.

Holcus lanatus	Yorkshire-fog	D
Ranunculus repens	Creeping Buttercup	F
Agrostis stolonifera	Creeping Bent	0
Heracleum sphondylium	Hogweed	0
Juncus effusus	Soft Rush	0
Rubus fruticosus agg.	Bramble	0
Rumex acetosa	Common Sorrel	0
Rumex obtusifolius	Broad-leaved Dock	0
Senecio jacobaea	Common Ragwort	0
Tussilago farfara	Colt's-foot	0
Alnus glutinosa	Alder	R
Centaurea nigra	Knapweed	R
Dactylis glomerata	Cock's-foot	R
Deschampsia cespitosa	Tufted Hair-grass	R
Ranunculus acris	Meadow Buttercup	R
Silene dioica	Red Campion	R

Target Note 15

Small area of marshy grassland encroached by scrub.

Deschampsia cespitosa	Tufted Hair-grass	D
Holcus lanatus	Yorkshire-fog	F
Heracleum sphondylium	Hogweed	0
Juncus conglomeratus	Compact Rush	0
Juncus inflexus	Hard Rush	0
Rubus fruticosus agg.	Bramble	0
Silene dioica	Red Campion	R
Cirsium arvense	Creeping Thistle	
Rumex acetosa	Common Sorrel	

Target Note 16

Old, defunct hedgerow on wall/bank.

Crataegus monogyna	Hawthorn	D
Rubus fruticosus agg.	Bramble	F
Epilobium sp.	Willowherb species	0
Pteridium aquilinum	Bracken	0
Sambucus nigra	Elder	0
Digitalis purpurea	Foxglove	R
Silene dioica	Red Campion	R

Target Note 17

Marshy grassland, modified neutral grassland, scrub and trees mosaic.

Juncus effusus	Soft Rush	D
Festuca rubra	Red Fescue	Α
Holcus lanatus	Yorkshire-fog	Α
Agrostis stolonifera	Creeping Bent	F
Epilobium hirsutum	Great Willowherb	F
Alnus glutinosa	Alder	0
Arrhenatherum elatius	False Oat-grass	0
Centaurea nigra	Knapweed	0
Cirsium arvense	Creeping Thistle	0
Dactylis glomerata	Cock's-foot	0
Deschampsia cespitosa	Tufted Hair-grass	0
Dryopteris dilatata	Broad Buckler-fern	0
Fraxinus excelsior	Ash	0

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Juncus conglomeratus	Compact Rush	0
Moss sp.	Moss species	0
Plantago lanceolata	Ribwort Plantain	0
Ranunculus acris	Meadow Buttercup	0
Ranunculus repens	Creeping Buttercup	0
Rubus fruticosus agg.	Bramble	0
Rumex acetosa	Common Sorrel	0
Rumex obtusifolius	Broad-leaved Dock	0
Tussilago farfara	Colt's-foot	0
Chamerion angustifolium	Rosebay Willowherb	R
Crataegus monogyna	Hawthorn	R
Dryopteris filix-mas	Male-fern	R
Eupatorium cannabinum	Hemp-agrimony	R
Geranium robertianum	Herb-Robert	R
Heracleum sphondylium	Hogweed	R
Lolium perenne	Perennial Ryegrass	R
Plantago major	Greater Plantain	R
Potentilla reptans	Creeping Cinquefoil	R
Prunella vulgaris	Selfheal	R
Salix species	Willow species	R
Silene latifolia	White Campion	R
Trifolium pratense	Red Clover	R

Marshy grassland in fenced-off, unmanaged section of field, occasional scattered alder. Mosaic with modified neutral grassland.

Juncus effusus	Soft Rush	D
Holcus lanatus	Yorkshire-fog	F
Ranunculus repens	Creeping Buttercup	F
Agrostis stolonifera	Creeping Bent	0
Alnus glutinosa	Alder	0
Angelica sylvestris	Wild Angelica	0
Cirsium palustre	Marsh Thistle	0
Deschampsia cespitosa	Tufted Hair-grass	0
Dryopteris filix-mas	Male-fern	0
Galium aparine	Cleavers	0
Phleum pratense	Timothy	0
Rumex obtusifolius	Broad-leaved Dock	0
Salix species	Willow species	0
Urtica dioica	Nettle	0
Centaurea nigra	Knapweed	R
Cirsium arvense	Creeping Thistle	R
Equisetum sp.	Horsetail species	R
Fraxinus excelsior	Ash	R
Juncus conglomeratus	Compact Rush	R
Plantago lanceolata	Ribwort Plantain	R
Rubus fruticosus agg.	Bramble	R
Rumex acetosa	Common Sorrel	R

Target Note 19

Unmanaged tussocky grassland with scattered trees and scrub. Some marshy areas.

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Holcus lanatus	Yorkshire-fog	D
Ranunculus repens	Creeping Buttercup	Α
Rumex obtusifolius	Broad-leaved Dock	Α
Juncus effusus	Soft Rush	F
Phleum pratense	Timothy	F
Agrostis stolonifera	Creeping Bent	0
Alnus glutinosa	Alder	0
Cirsium arvense	Creeping Thistle	0
Ranunculus acris	Meadow Buttercup	0

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Carex hirta	Hairy Sedge	R
Centaurea nigra	Knapweed	R
Cerastium fontanum	Common Mouse-ear	R
Crataegus monogyna	Hawthorn	R
Crocosmia x crocosmiiflora	Montbretia	R
Deschampsia cespitosa	Tufted Hair-grass	R
Equisetum arvense	Field Horsetail	R
Heracleum sphondylium	Hogweed	R
Iris pseudacorus	Yellow Flag Iris	R
Lotus corniculatus	Bird's-foot Trefoil	R
Phalaris arundinacea	Reed Canary-grass	R
Rubus fruticosus agg.	Bramble	R
Rumex acetosa	Common Sorrel	R
Urtica dioica	Nettle	R
Vicia cracca	Tufted Vetch	R

Field of swamp/marshy grassland, modified neutral grassland and tall ruderal herb.

Deschampsia cespitosa	Tufted Hair-grass	F
Elytrigia repens	Common Couch	F
Epilobium hirsutum	Great Willowherb	F
Holcus lanatus	Yorkshire-fog	F
Juncus effusus	Soft Rush	F
Agrostis stolonifera	Creeping Bent	0
Centaurea nigra	Knapweed	0
Cirsium arvense	Creeping Thistle	0
Crocosmia x crocosmiiflora	Montbretia	0
Equisetum arvense	Field Horsetail	0
Juncus inflexus	Hard Rush	0
Phalaris arundinacea	Reed Canary-grass	0
Phleum pratense	Timothy	0
Potentilla anserina	Silverweed	0
Ranunculus repens	Creeping Buttercup	0
Rubus fruticosus agg.	Bramble	0
Rumex acetosa	Common Sorrel	0
Urtica dioica	Nettle	0
Alnus glutinosa	Alder	R
Carex hirta	Hairy Sedge	R
Dactylis glomerata	Cock's-foot	R
Lolium perenne	Perennial Ryegrass	R
Lysimachia vulgaris	Yellow Loosestrife	R
Rumex crispus	Curled Dock	R
Rumex obtusifolius	Broad-leaved Dock	R
Salix caprea	Goat Willow	R

Target Note 21

Band of marshy grassland and swamp mosaic between housing estate and heavily grazed horse field. This area is obviously well-used by dog walkers, and there are occasional stands of ornamental species which have either been fly-tipped or escaped from the gardens which back onto the land.

Juncus effusus	Soft Rush	D
Deschampsia cespitosa	Tufted Hair-grass	F
Elytrigia repens	Common Couch	F
Festuca rubra	Red Fescue	F
Holcus lanatus	Yorkshire-fog	F
Lysimachia vulgaris	Yellow Loosestrife	F
Phalaris arundinacea	Reed Canary-grass	F
Chamerion angustifolium	Rosebay Willowherb	0
Crocosmia x crocosmiiflora	Montbretia	0
Cynosurus cristatus	Crested Dog's-tail	0
Epilobium hirsutum	Great Willowherb	0

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Moss sp.	Moss species	0
Phleum pratense	Timothy	0
Phragmites australis	Reed	0
Ranunculus repens	Creeping Buttercup	0
Rubus fruticosus agg.	Bramble	0
Rumex obtusifolius	Broad-leaved Dock	0
Senecio jacobaea	Common Ragwort	0
Angelica sylvestris	Wild Angelica	R
Calluna vulgaris	Heather	R
Carex sp.	Sedge species	R
Odontites verna	Red Bartsia	R
Salix cinerea	Grey Willow	R

Small (approx. 10x20m) damp area with heather (7 clumps) and very small area of standing water (<1x1m).

Juncus effusus	Soft Rush	D
Agrostis stolonifera	Creeping Bent	F
Carex flacca	Glaucous Sedge	F
Festuca rubra	Red Fescue	F
Moss sp.	Moss species	F
Calluna vulgaris	Heather	0
Carex leporina	Oval Sedge	0
Hypochaeris radicata	Common Cat's-ear	0
Juncus articulatus	Jointed Rush	0
Plantago lanceolata	Ribwort Plantain	0
Prunella vulgaris	Selfheal	0
Centaurea nigra	Knapweed	R
Deschampsia cespitosa	Tufted Hair-grass	R
Polytrichum sp.	Moss species	R
Potentilla reptans	Creeping Cinquefoil	R
Rumex crispus	Curled Dock	R
Trifolium pratense	Red Clover	R

Target Note 23

Patch of dense scrub and scattered trees.

Prunus spinosa	Blackthorn	Α
Rubus fruticosus agg.	Bramble	Α
Alnus glutinosa	Alder	F
Salix species	Willow species	F
Crataegus monogyna	Hawthorn	0

Target Note 24

Marshy grassland in unmanaged field.

Juncus effusus	Soft Rush	D
Agrostis stolonifera	Creeping Bent	F
Ranunculus repens	Creeping Buttercup	F
Angelica sylvestris	Wild Angelica	0
Cirsium palustre	Marsh Thistle	0
Cynosurus cristatus	Crested Dog's-tail	0
Deschampsia cespitosa	Tufted Hair-grass	0
Glyceria fluitans	Floating Sweet-grass	0
Holcus lanatus	Yorkshire-fog	0
Montia fontana	Blinks	0
Epilobium palustre	Marsh Willowherb	R
Senecio aquaticus	Marsh Ragwort	R

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Area of woodland shown on Magic Map as Section 41 priority deciduous woodland, but does not appear significantly different from woodland in the rest of the site. Contains a number of ornamental species.

Ulmus glabra	Wych Elm	Α
Prunus spinosa	Blackthorn	F
Rubus fruticosus agg.	Bramble	F
Acer pseudoplatanus	Sycamore	0
Dryopteris dilatata	Broad Buckler-fern	0
Dryopteris filix-mas	Male-fern	0
Fagus sylvatica	Beech	0
Fraxinus excelsior	Ash	0
Pinus sylvestris	Scots Pine	0

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