

1714 Milton Environmental Permit Variation Application March 2022

HABITATS ASSESSMENT

1 INTRODUCTION

Milton Landfill is a non-hazardous landfill, which is located on, Butt Lane, Milton, Cambridgshire, CB24 6DQ, approximately 4km north of Cambridge city centre. It can be located by National Grid Reference TL 465 632.

The site is operated by FCC Environment, under permit number BV4584IU, originally issued in 2005 and most recently varied in 2016. Landfilling has been undertaken at the site since the 1980s. Earlier phases of landfilling included some hazardous wastes. Landfilling in Phases I and II is complete and the site is progressing towards the remaining few cells in Phase III, towards the north of the site.

This Habitats Assessment has been prepared to support a permit variation, which is being made to address the following:

- To revise the leachate compliance levels;
- To increase the annual tonnages of waste and restoration materials;
- To surrender small areas of land, which have not been landfilled;
- To include new groundwater monitoring boreholes and associated compliance limits;
- To reduce the number of leachate wells used for regular monitoring;
- A revised surface water management scheme.

A pre-application request was submitted to the Environment Agency (EA) and a meeting was held on 28 September 2020. Subsequent written advice from the EA was referenced EPR-BV4584IU_V010 and dated 8/8/20. The advice confirmed that the application fee would include a sum for a habitats assessment. This report assesses whether the permit variation application has the potential to affect the identified habitat receptors, as given in the Nature and Heritage Conservation Screen, provided by the EA on 6/11/20, refer to Appendix 1.

2 IDENTIFIED RECEPTORS

Table 1: Identified Receptors

	Name of Receptor	Designation	Distance from Site
1	Fenland SAC	Special Area of	9.9km NE
		Conservation (SAC)	
2	Wicken Fen	Ramsar	7.5km NE
3	Histon Road SSSI	SSSI	2km SW
4	Bramblefields LNR	Local Nature Reserve	1.5km SSE
		(LNR)	
5	Worts Meadow LNR	LNR	1.9km N
6	Ditton Meadows LWS	Local Wildlife Site (LWS)	2km SE
7	Milton Road Hedgerows	LWS	500m SE
8	King's Hedges Hedgerow	LWS	1km SSW
9	River Cam	LWS	2km SE



3 RECEPTOR DETAILS

1 Fenland SAC

The Joint Nature Conservation Committee (JNCC) describes the general site character as:

- Inland water bodies (5%);
- Bogs, marshes, water fringed vegetation, fens (70%);
- Other arable land (5%);
- Broad-leaved deciduous woodland (20%).

The selection of the site is on the basis of the following Annex I (Council Directive 92/43/EEC) habitats:

- Molinia meadows on calcareous, peaty or clayey-silt-laden soils.
- Calcareous fens with Cladium mariscus and species of the Caricion davallianae.

The site also has the following Annex II species present:

- Spined loach;
- Great crested newt.

2 Wicken Fen Ramsar

The JNCC describes the Wicken Fen Ramsar as a marginal remnant of the original peat fenland of the East Anglian basin. The vegetation has a mosaic character. Species include sedges, rushes, spike rushes and marsh orchids, with associated insects. The water bodies support aquatic angiosperms. Wildfowl include mallard, teal, wigeon, shoveler, pochards and tufted duck.

3 Histon Road SSSI

The Cambridge and Peterborough Local Environmental Records Centre (CPERC) was contacted for details of habitats within a 2km radius of Milton Landfill. The reports provided are presented in Appendix 2.

Histon Road SSSI is designated as a geological conservation review site and is a key Pleistocene stratigraphic site. The deposit provides an almost complete record of the second half of the Ipswichian interglacial.

4 Bramblefields LNR

Bramblefields LNR is managed by Cambridge City Council. It is described as being important for birds, especially song thrushes. It has a mixture of grassland and scrub. The pond contains newts and frogs and attracts dragonflies.

5 Worts Meadow LNR

Cambridgeshire County Council describe Worts Meadow, in Landbeach, as a former mediaeval settlement. There are a number of wildlife habitats found on the site including

- Improved lowland grassland pasture
- Hedgerows



• Plantation woodland and ponds

The hedgerows provide habitat for a variety of species including yellow hammer. The three ponds on site contain great crested newts.

6 Ditton Meadows LWS

CPERC hold records of City and County Wildlife Sites. Ditton Meadows is described as lying within the flood plain of the River Cam. Central drain qualifies as species rich linear water body and also for NVC S6 Greater Pond-sedge swamp. Coldham's Brook qualifies as unmodified chalk stream.

Further details are presented in Appendix 2.

7 Milton Road Hedgerows LWS

CPERC record that Milton Road Hedgerows qualifies for its potential value as it just misses criteria for hedgerows and is likely to meet them in the future. The site is a hedgerow of moderate diversity. The habitat types are

- Grassland- poor semi-improved
- Cultivated disturbed ground-ephemeral/short perennial
- Boundaries intact hedge

Further details are presented in Appendix 2.

8 King's Hedges Hedgerow LWS

CPERC records that King's Hedges Hedgerow supports hedgerow at least 100m in length and 2m in width at its widest point with four or more woody species, and with at least part of the hedge allowed to flower and fruit.

Further details are presented in Appendix 2.

9 River Cam LWS

The River Cam is a county wildlife site. CPERC describe the site as a major river (together with adjacent semi-natural habitat) that has not been grossly modified by canalisation and/or poor water quality. Additionally it has areas with concentrations of mature pollard willows.

Further details are presented in Appendix 2.



4 QUALITATIVE RISK ASSESSMENT

4.1 Risk Assessment Methodology

This risk assessment is a qualitative screening of the potential impact of the permit variation proposals on the identified receptors described above. This is a qualitative source-pathway-receptor assessment and does not constitute a detailed ecological appraisal. The source of risk is identified and the potential pathways to the various receptors are examined to determine whether there are any significant linkages. This is summarised in tabular format to assist with conclusions: Table 2: Assessment of Risks to Habitat Receptors.

4.2 Source

4.2.1 General

The sources within this permit application with the potential to affect habitats are:

- 1. raising of the standing leachate level/leachate head above the landfill base;
- 2. increasing the annual tonnages and
- 3. a revised surface water management scheme.

4.2.2 Raised Leachate Compliance Levels

The raising of leachate compliance levels will be to revised levels below the existing ground level. The revised Hydrogeological Risk Assessment demonstrates that there should be no adverse effect on local groundwater quality as a result.

4.2.3 Increased Tonnages

The site is reaching completion. It has been temporarily closed during the coronavirus pandemic. It is estimated that approximately 200,000 tonnes of wastes are required to fill the final cells and approximately 220,000 tonnes of soils are required to meet restoration requirements. The current permit limits the import of non-hazardous wastes to 150,000 tpa. FCC seeks to increase this to 200,000 tpa. The annual limit on wastes for restoration is to be agreed in line with Improvement Condition IC3. All material will be received and stored within the footprint of the existing site. It will be handled and managed in lined with the Restoration Plan.

4.2.4 Surface Water Management

The surface water management scheme will use a series of perimeter ditches within the footprint of the existing landfill. A new lagoon will be constructed on the northeastern side of the site between the entrance and the gas plant. This will outfall into the Thirteenth Public Drain, where the former effluent treatment plant previously discharged.

4.3 Pathways

4.3.1 Raised Leachate Compliance Levels

Pathways for leachate seepage from raised leachate levels to reach the identified receptors are as follows:

1. Lateral migration through engineered containment, to reach groundwater within the River Terrace Deposits and then lateral groundwater movement downgradient to receptors. This can only occur in a limited area of the site on the east, if the groundwater level falls below



the leachate level.

- 2. Vertical migration of leachate through a significant thickness of Gault Clay at times when the leachate level exceeds the piezometric surface of the Greensand. Migration away from site within the groundwater of the Greensand at depth.
- 3. Surface breakout of leachate to perimeter surface water drains. This would only occur if the trigger level was breached. There is 2 3 m between the proposed leachate compliance levels and the surrounding ground level.

4.3.2 Increased Tonnages

There are no direct pathways for increased tonnages to affect habitats off site. Any fugitive emissions, such as dust, would be managed in accordance with existing site management systems.

4.3.3 Surface Water

Pathways for surface water to reach off site receptors would be via the Thirteenth Public Drain. From here drainage passes below the A10 and flows downgradient south of the recreation ground; through Milton Country Park and below the railway line to reach the River Cam approximately 1.5km east of the site. However, as the discharge is of clean surface water only, there is limited potential for downgradient effects on receptors, except in the case of an accident, or spillage into the surface water system.

4.3.4 Summary

The pathways with potential to reach habitats in off-site locations are:

- 1) Migration of leachate seepages within shallow groundwater of the River Terrace Deposits to open water habitats downgradient;
- 2) Migration of surface waters affected by accidental spillages/events into the surface water system downgradient.

4.4 Receptors

The receptors in this assessment are the habitats identified in the EA's Nature and Heritage Conservation Screen and as summarised in Section 2.

5 ASSESSMENT AND CONCLUSIONS

Table 2 below assesses each identified habitat in turn against the two potential pathways identified in section 4.3.4.

The assessment concludes that there are no perceived linkages from the proposed changes to the environmental permit that could impact upon the identified receptors and therefore, the risk to the receptors is considered to be negligible. As no linkages have been identified, a detailed ecological assessment and management plan are not considered to be required.



Table 2: Assessment of Risks to Habitat Receptors

Pathway	Receptor	Nature of Linkage	Resulting Risk
Lateral migration	1. Fenland SAC	The direction of groundwater flow in the River Terrace deposits is	Low – no
through engineered		southeasterly. Fenland SAC is 9.9km to the northeast. It is not	perceived linkage
containment into the		considered downgradient of the site.	1
River Terrace Deposits and from there to	2. Wicken Fen	The direction of groundwater flow in the River Terrace deposits is southeasterly. Wicken Fen is 7.5km to the northeast. It is not	Low – no perceived linkage
open water bodies		considered downgradient of the site.	perceived in kage
downgradient	3. Histon Road SSSI	The direction of groundwater flow in the River Terrace deposits is	Low – no
		southeasterly. Histon Road SSSI is 2km to the southwest. It is not	perceived linkage
		considered downgradient of the site.	
	4. Bramblefields LNR	Bramblefields LNR is 1.5km south-southeast of the site, so is potentially	Low - too far
		downgradient. The British Geological Survey(BCS) geology of Britain viewer	from site and
		shows the presence of River Terrace Deposits below the LNR.	River Terrace
		The reserve is designated on the basis of birds, especially song thrush. It is a place of grassland and scrub. It also contains a pond with frogs and newts. It	Deposits unlikely to be continuous
		is considered unlikely that there will be continuity of groundwater flow	over this
		within the variable River Terrace Deposits into the pond at this distance from	distance.
		the site.	
	5. Worts Meadow LNR	Worts Meadow LNR is 1.9km north of the site. The direction of groundwater	Low – no
		flow in the River Terrace deposits is southeasterly. It is not considered	perceived linkage
		downgradient of the site.	
	6. Ditton Meadows LWS	Ditton Meadows LWS is 2km southeast of the site and potentially downgradient. The BGS geology of Britain viewer shows the presence of	Low - different catchment to
		Alluvium below the LWS. The Alluvium is potentially in hydraulic continuity	landfill
		with the River Terrace Deposits, however, the LWS is on the eastern side for	lanam
		the River Cam. The River Cam is likely to represent a hydraulic boundary to	
		migration to the east.	
		The LWS is described as lying within the flood plain of the River Cam,	
		including Central drain and Coldham's Brook. The latter qualifies as	
		unmodified chalk stream and therefore, is a different geological catchment to the landfill.	
	7. Milton Road	Milton Road Hedgerows are 500m southeast of the site and therefore,	
	Hedgerows	downgradient. The BGS geology of Britain viewer shows the presence of	
		River Terrace Deposits below the LNR. The LWS is designated on the basis of	
		Grassland- poor semi-improved; cultivated disturbed ground-	

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Pathway	Receptor	Nature of Linkage	Resulting Risk
		ephemeral/short perennial and boundaries – intact hedge. The nature of the underlying groundwater of the River Terrace Deposits is unlikely to affect these habitats.	
	8. King's Hedges Hedgerow	King's Hedges Hedgerow is 1km southwest of the site. The direction of groundwater flow in the River Terrace deposits is southeasterly. The LWS is not considered downgradient of the site.	Low - no perceived linkage
	9. River Cam	The section of the River Cam designated as a LWS is 2km southeast of the site at its closest point. The River Cam flows from south to north, so it is the most downgradient point of the LWS that is at 2km distance. The LWS is designated as such on the basis of being a major river with semi- natural adjacent habitat, largely undisturbed by canalisation, or poor water quality. The HRA has demonstrated that there should be no adverse effect on groundwater quality on the boundary of the site. The likelihood of a deterioration in groundwater quality at a distance of 2km and with the added dilution of the River Cam is very unlikely.	
Surface water affected by accidental	1. Fenland SAC	Fenland SAC is 9.9km to the northeast. It is not considered downgradient of the site's surface water system.	Low - no perceived linkage
contamination event migrating to surface	2. Wicken Fen	Wicken Fen is 7.5km to the northeast. It is not considered downgradient of the site's surface water system.	Low - no perceived linkage
water fed habitats downgradient	3. Histon Road SSSI	Histon Road SSSI is 2km to the southwest. It is not considered downgradient of the site's surface water system	Low - no perceived linkage
	4. Bramblefields LNR	Bramblefields LNR is 1.5km south-southeast of the site. It is not fed by a surface water drain that is directly downgradient of the landfill.	Low - no perceived linkage
	5. Worts Meadow LNR	Worts Meadow LNR is 1.9km north of the site. It is not considered downgradient of the site's surface water system.	Low - no perceived linkage
	6. Ditton Meadows LWS	Ditton Meadows LWS is 2km southeast of the site and on the east of the River Cam. It is not considered downgradient of the site's surface water system.	Low - no perceived linkage
	7. Milton Road Hedgerows	Milton Road Hedgerows are 500m southeast of the site. They are separated from the site by the A14 roundabout. There appears to be no direct connection with the drainage from the landfill. The hedgerows are designated on the basis of grassland and hedge habitats and are unlikely to be affected by surface water quality.	



Pathway	Receptor	Nature of Linkage	Resulting Risk
	8. King's Hedges	King's Hedges Hedgerow is 1km southwest of the site. It is not considered	Low – no
	Hedgerow	downgradient of the site's surface water system.	perceived linkage
	9. River Cam	The River Cam LWS is 2km southeast of the landfill at its closest point.	Low-indirect
		The drainage from the landfill reaches the River Cam, after flowing	linkage and 2km
		through Milton Country Park at a point 1.3km downgradient. There is	distance from site
		no direct pathway to the River Cam.	



APPENDIX1

Environment Agency Nature and Heritage Conservation Screen

Nature and Heritage Conservation

nvironment

Screening Report: Bespoke installations

Reference	EPR/BV4584IU/V010
NGR	TL4632362655
Buffer (m)	715
Date report produced	06/11/2020
Number of maps enclosed	5

The nature conservation sites identified in the table below must be considered in your application.

Nature and heritage conservation sites	Screening distance (km)	Further information
Special Areas of Conservation (cSAC or SAC)	10	Joint Nature Conservation Committee
Fenland (SAC)		
Ramsar	10	Joint Nature Conservation
Wicken Fen (Ramsar)		Committee
Sites of Special Scientific Interest (SSSI)	2	Natural England
Histon Road (SSSI)		
Local Nature Reserve (LNR)	2	Natural England
Bramblefields (LNR)		
Worts Meadow (LNR)		
Bramblefields (LNR)		

Local Wildlife Sites (LWS)

Appropriate Local Record Centre (LRC)

Ditton Meadows

Milton Road Hedgerows

King's Hedges Hedgerow

River Cam

The relevant Local Records Centre must be contacted for information on the features within local wildlife sites. A small administration charge may also be incurred for this service.

Please note we have screened this application for protected and priority sites, habitats and species for which we have information. It is however your responsibility to comply with all environmental and planning legislation, this information does not imply that no other checks or permissions will be required.

Please note, the enclosed pre-application map(s) is valid for a period of **6 months**. If you plan to submit your application more than 6 months after the map(s) was generated, you must request that the screen is re-run. This will ensure that you have used the most current information on heritage and nature conservation interests in your application.

incident hotline 0800 80 70 60 floodline 0845 988 1188

www.environment-agency.gov.ul

2

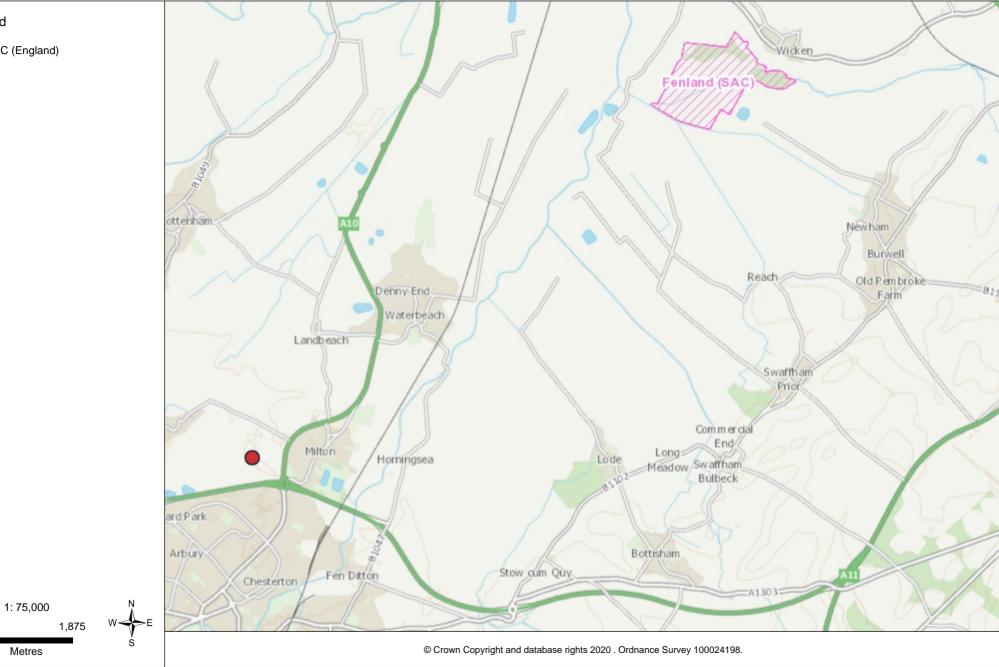
Special Areas of Conservation

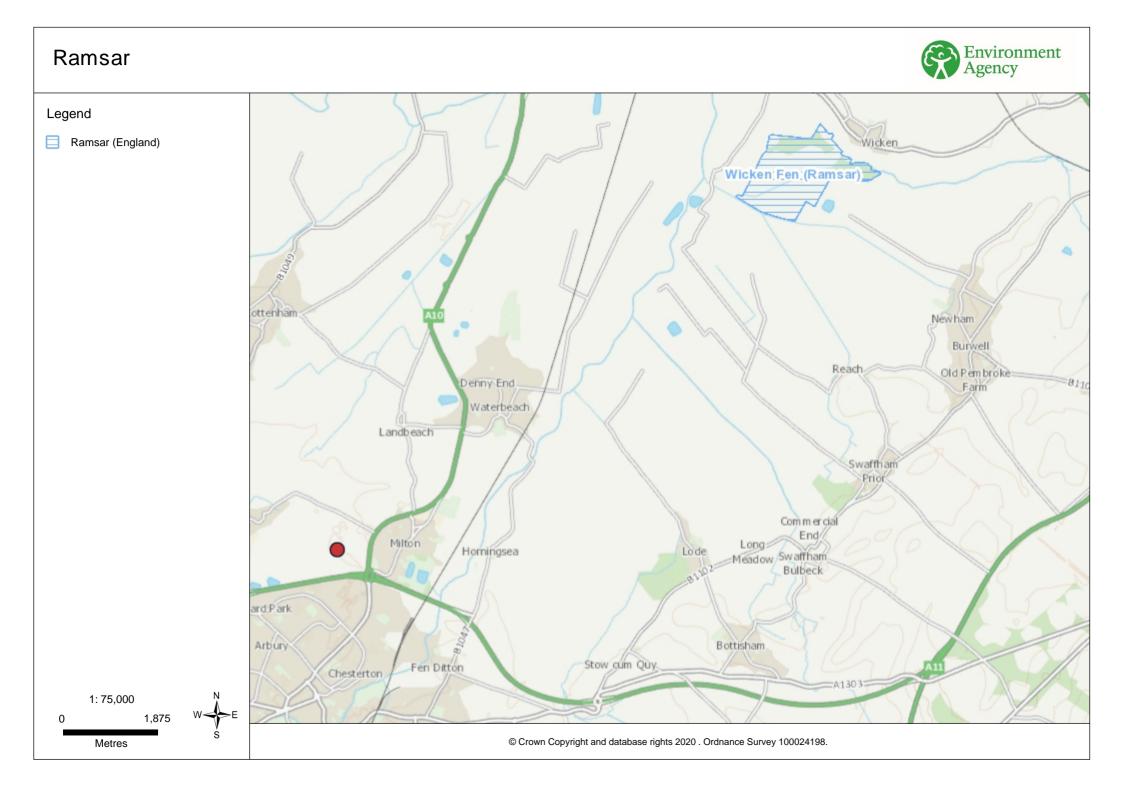


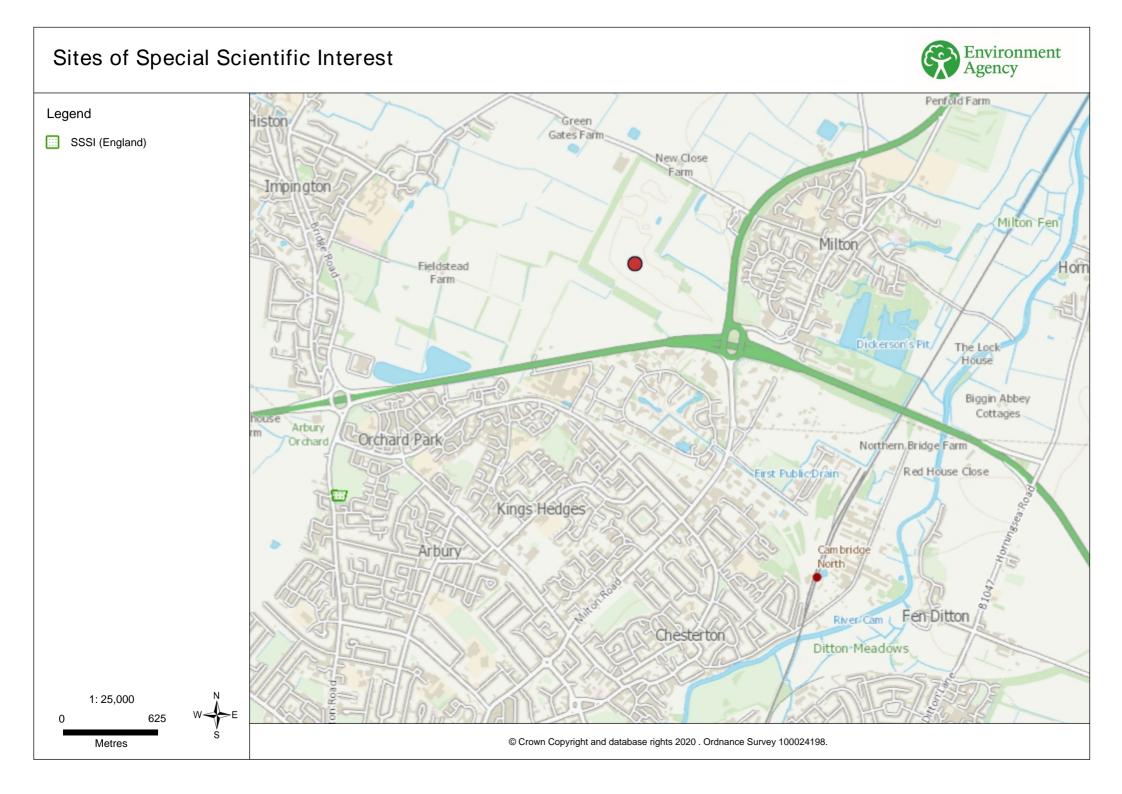


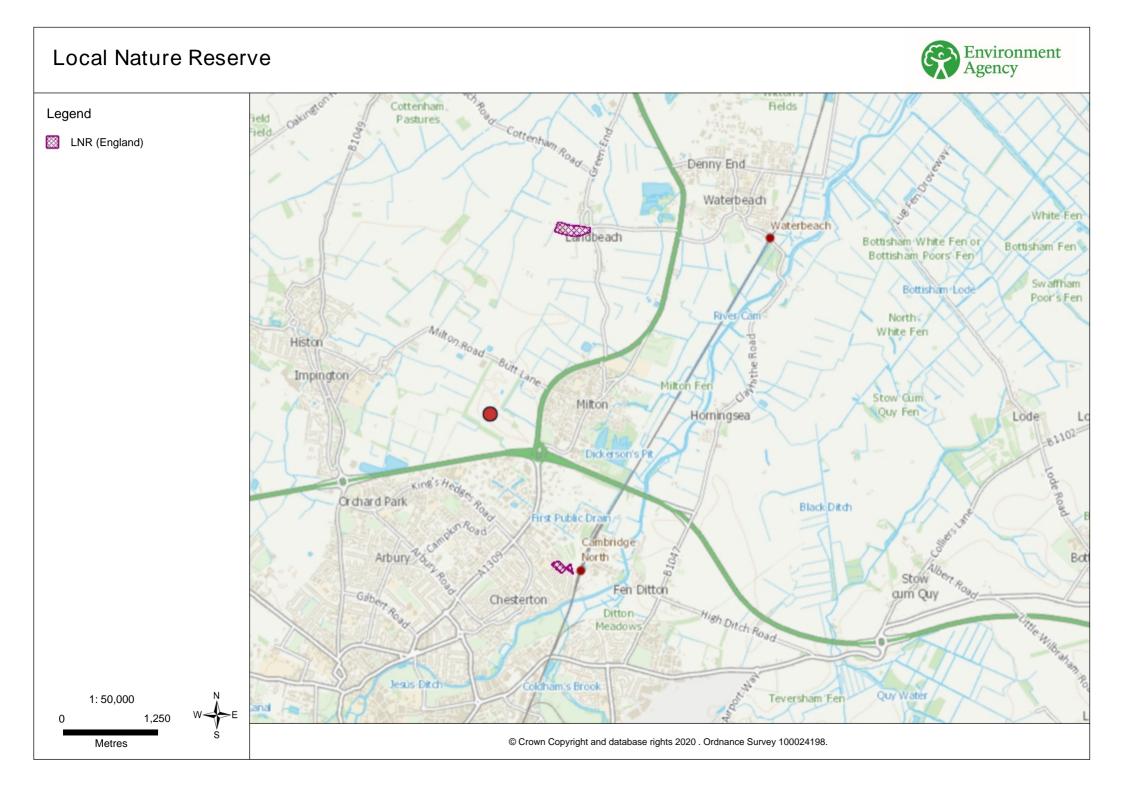
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SAC (England)













APPENDIX 2

CPERC Records

Designated Sites Map

for McDonnell Cole Ltd.

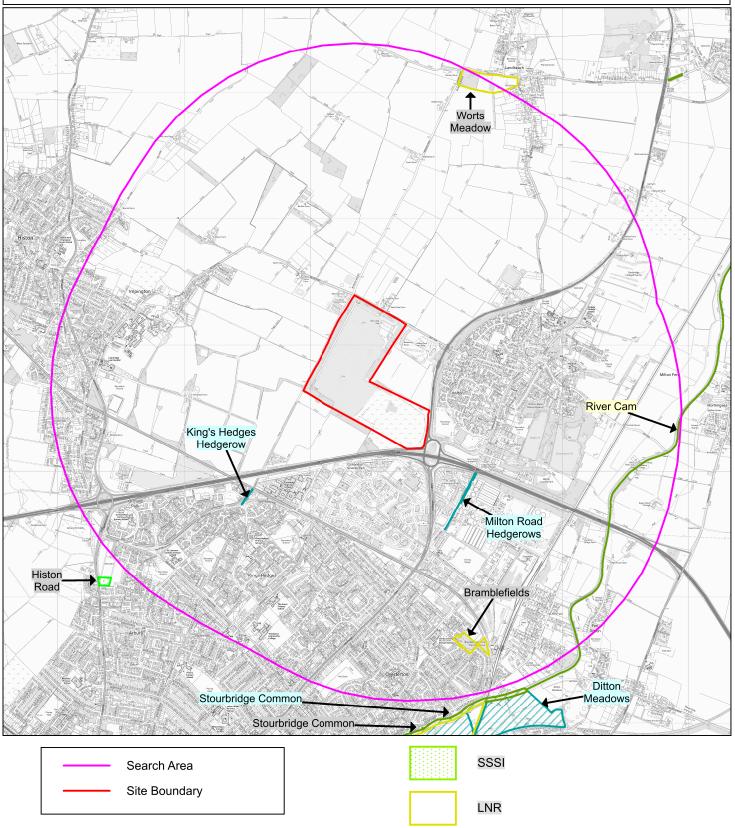
Milton

20/11/2020

1:30,000

CPERC The Manor House Broad Street Cambourne Cambridgeshire CB23 6DH





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County Wildlife Site

City Wilc

City Wildlife Site (Cambridge City)

Cambridgeshire and Peterborough Environmental Records Centre

Designated Sites Search Report



Designated Sites within a 2km radius of the site boundary

Date: 20/11/2020 Site Reference: McDonnell_Cole_Milton

LNRs

Site Name	Grid Ref	Area (ha)
Bramblefields	TL472606	2.06
Worts Meadow	TL474650	5.64672

County Wildlife Sites

Site Name	Grid Ref	Area (ha)	Reasons for Designation
River Cam	TL45	n/a	Is a major river (together with adjacent semi-natural habitat) that has not been grossly modified by canalisation and/or poor water quality. Additionally it has areas with concentrations of mature pollard willows.

City Wildlife Sites

Site Name	Grid Ref	Area (ha)	Reasons for Designation
King's Hedges Hedgerow	TL454617	0.08	Supports hedgerow at least 100m in length and 2m in width at its widest point with four or more woody species, and with at least part of the hedge allowed to flower and fruit.
Milton Road Hedgerows	TL472617	0.25	Site qualifies for its potential value as it just misses criteria for hedgerows and is likely to meet them in the future.

Cambridgeshire and Peterborough Environmental Records Centre

Designated Sites Search Report



Additional Designated Sites within a 2.2km radius of the site boundary

Date: 20/11/2020 Site Reference: McDonnell_Cole_Milton_Additional

SSSIs

Site Name	Grid Ref	Area (ha)	Reasons for designation
Histon Road	TL443611	0.62	This is a 'Geological Conservation Review' site, and is a key Pleistocene stratigraphic site. The deposit
			provides an almost complete record of the second half of the Ipswichian Interglacial.

LNRs

Site Name	Grid Ref	Area (ha)
Stourbridge Common	TL470598	19.38

City Wildlife Sites

Site Name	Grid Ref	Area (ha)	Reasons for Designation
Ditton Meadows	TL476600	15.96	Lies within the flood plain of the River Cam. Central drain qualifies as species rich linear water body and also for NVC S6 Greater Pond-sedge swamp. Coldham's Brook qualifies as unmodified chalk stream.
Stourbridge Common	TL469598	17.76	Area of undeveloped floodplain directly associated with the River Cam County Wildlife Site.

COUNTY WILDLIFE SITE FULL RECORD SHEET

- *NAME:* River Cam (SCDC)
- *File code:* S/1997
- Parish(es): Ickleton Hinxton Duxford Pampisford Whittlesford Sawston Little Shelford Great Shelford Hauxton Grantchester Cambridge Milton Fen Ditton Horningsea Waterbeach County: Cambridgeshire
- *Grid ref.:* TL45

Habitat information

Code Habitat type

A111 Woodland: broadleaved, semi-natural	
A112 Woodland: broadleaved, plantation	
A21 Scrub: dense/continuous	
A22 Scrub: scattered	
A31 Parkland/scattered trees: broad-leaved	
B22 Grassland: neutral, semi-improved	
B6 Grassland: poor semi-improved	
C31 Tall herb and fern: other, tall ruderal	
F1 Swamp	
F2 Marginal/inundation	
G1 Open water: standing water	
G2 Open water: running water	
J12 Cultivated/disturbed land: amenity grassla	nd
J21 Boundaries, intact hedge	
J22 Boundaries, defunct hedge	

J261	Boundaries, permanently wet ditch
J262	Boundaries, seasonally wet ditch

Site description

The River Cam is a major river with generally moderate to good water quality and a relatively unmodified channel. It supports a wide range of submerged, floating, marginal and wetbank vegetation. Pollard willows occur along most stretches of the river; high concentrations are to be found in many areas, eg. near Whittlesford, Duxford, the Shelfords, along Haling Way. Recent surveys have found evidence of otters regularly using the river and associated watercourses. This site includes a large section of the Bourn Brook, which is a tributary stream of the river. The brook is also used by otters and certain sections support good concentrations of pollard willows. Although not outlined on the boundary map the River Cam CWS should be considered to include all adjacent or nearby riparian habitat in the flood plain. Such features as flood meadows and washlands (even those that have been agriculturally improved), willow or alder woodland and scrub, old river channels and mill races, associated minor watercourses, pollard willows, are an essential part of the river ecology. All developments and proposals that may affect these features need to be assessed if the wildlife value of the river is to be safeguarded. The Cam Washes SSSI at Waterbeach is not part of the site.

Site assessment

The site qualifies as CWS because it is a major river not grossly modified by pollution or canalisation. Additionally it qualifies because it has many areas with concentrations of mature pollard willows.

Site status

Part of a proposed County Wildlife Site Main River

SITE RECORD SHEET

SITE NAME: King's Hedges Hedgerow

Site code: F8.1

Grid ref: TL455618

Habitat information

- Code Habitat type
- J2.2.1 Boundaries: defunct hedge, species rich

Site area: Ha

Site description

This site consists of the agger of the roman road of Akeman Street, and its associated old hedge. This broad overgrown old hedgerow is on both sides of the agger, with a path up the middle. It is diverse, and somewhat gappy yet in places dense. Hawthorn *Crataegus monogyna* and suckering Blackthorn *Prunus spinosa* are the most common woody species, but there are several Hazel *Corylus avellana* stools and a large Ash *Fraxinus excelsior*. Many English Elm *Ulmus procera* stems appear to have died in recent years; young suckers were not readily apparent but could easily have been missed. Bramble *Rubus fruticosus* agg is frequent with occasional Field Maple *Acer campestre*.

Site assessment

This site qualifies as a City Wildlife Site for hedgerows (criterion 2.9). Hedgerows at least 100m in length and comprised of shrubs greater than 2m in width at the widest point, with four or more woody species, and with as least part of the hedge allowed to flower and fruit.

SITE RECORD SHEET

SITE NAME: Milton Road Hedgerow

Site code: H8.1

Grid ref: TL471617

Date of survey: 15/8/05

Surveyor : Steve Hartley

Habitat information

Code	Habitat type
B6	Grassland: poor semi-improved
J1.3	Cultivated disturbed ground: ephemeral/short perennial
J2.1	Boundaries, intact hedge

Site area:

0.23 ha

Site description

This site is a hedgerow of moderate diversity, running beside Cowley Road and, for much of its length, past the sewage works. It appears generally unmanaged or trimmed infrequently, and is up to 6m tall and at least 2m wide except for occasional gaps.

The northern section runs for about 60m beside the ramp of the new cycle bridge over the A14. Shrubs are nearly all Hawthorn *Crataegus monogyna*, English Elm *Ulmus procera* and a small plum *Prunus sp.*. There is little ground flora and the adjacent species-poor grassland has been resown after the cycle bridge works.

The middle section, about 200m long, has the same mix of shrubs as the northern section, but there is more ground flora which has a ruderal leaning, including species such as Mugort *Artemisia vulgaris*, Common Nettle *Urtica dioica* and Black Horehound *Ballota nigra*. Much of the adjacent verge is now cyclepath.

The shrubs in the southern section, about 240m long, consist only of Hawthorn and the small plum, with rare Elder *Sambucus nigra*. The ground flora is similar to that of the middle section, and much of the adjacent verge is again cyclepath.

The only grassland indicator species found was occasional Bladder Campion *Silene vulgaris* in the middle and southern sections. The hedgeline is continued south of the site by a short length of frequently trimmed Hawthorn, with a few seedlings of other species.

The site contains only 3 designated woody species for determining scrub and hedgerow value, namely Hawthorn, Elder and Wayfaring-tree *Viburnum lantana*, although the small plum must have high value as a food source. The short length of hedge to the south of the site has one further designated woody species, Ash *Fraxinus excelsior*, in it.

Site assessment

Strictly, this site fails to qualify as a City Wildlife Site for hedgerows (criterion 2.9), since it has 3 designated woody species and the qualifying number is 4. However, the hedge clearly has high wildlife value, given that the value of the other species present is high and that the hedge fruits for the great majority of its length. Also, natural seeding processes are likely to introduce one or more further species in the near future, so the site qualifies for its potential value (criteria 2.45).

SPECIES LISTS

Northern section

Scientific name	Common name	Abun 1998	dance 2005	Status
Alliaria petiolata	Garlic Mustard	0		WP
Anisantha sterilis	Barren Brome	0		
Arctium sp.	a burdock	0		
Bryonia dioica	White Bryony	r		
Cirsium arvense	Creeping Thistle	0		
Conium maculatum	Hemlock	0		
Convolvulus arvensis	Field Bindweed	la		
Crataegus monogyna	Hawthorn	f	f-la	WS
Dactylis glomerata	Cock's-foot	0		
Galium aparine	Cleavers	0		
Geranium molle	Dove's-foot Crane's-bill	0		
Hedera helix	lvy	0	0	WP
Lolium perenne	Perennial Rye-grass	0		
Papaver rhoeas	Common Poppy	r		
Papaver somniferum	Opium Poppy	f		
Pastinaca sativa	Wild Parsnip	r		CG
Poa sp.	a meadow-grass	0		
Prunus sp.	a small plum		f	
Reseda luteola	Weld	0		
Sambucus nigra	Elder	0	r	WS
Silene latifolia	White Campion	0		
Stellaria media agg.	Chickweed	0		
Symphoricarpos albus	Snowberry		r	
Tripleurospermum inodorum	Scentless Mayweed	0		
Ulmus procera	English Elm	f	la	WP
Urtica dioica	Common Nettle	0		
Veronica sp.	a speedwell	f		

Middle section

Scientific name	Common name	Abun 1998	dance 2005	Status
Aesculus hippocastanum	Horse-chestnut	r	r	
Anisantha sterilis	Barren Brome	0	r	
Arctium minus	Lesser Burdock		0	WP
Arctium sp.	a burdock	r		
Arrhenatherum elatius	False Oat-grass	r	r	
Artemisia vulgaris	Mugwort		f	

Middle section (continued)

Scientific name	Common name	Abun 1998	dance 2005	Status
Ballota nigra	Black Horehound		f	
Bryonia dioica	White Bryony	0	0	
Chaerophyllum temulum	Rough Chervil	r		
Cirsium arvense	Creeping Thistle	0	r	
Cirsium vulgare	Spear Thistle	0	r	
Convolvulus arvensis	Field Bindweed		0	
Crataegus monogyna	Hawthorn	0	f-la	WS
Dactylis glomerata	Cock's-foot	0	r	
Festuca rubra agg.	Red Fescue		lf	
Geranium molle	Dove's-foot Crane's-bill	f		
Glechoma hederacea	Ground-ivy	0	lf	WP
Hedera helix	lvy	f	0	WP
Holcus lanatus	Yorkshire-fog		r	
Hordeum murinum	Wall Barley	f		
Lactuca serriola	Prickly Lettuce		r	
Lamium album	White Dead-nettle	0		
Lapsana communis	Nipplewort	r		WP
Lolium perenne	Perennial Rye-grass		0	
Malva sylvestris	Common Mallow		0	
Mycelis muralis	Wall Lettuce		r	
Oxalis articulata	Pink-sorrel	r		
Picris echioides	Bristly Oxtongue		f	
Plantago lanceolata	Ribwort Plantain	0	f	
Poa annua	Annual Meadow-grass	0		
Potentilla reptans	Creeping Cinquefoil	0	r	
Prunus sp.	a small plum		f	
Ranunculus repens	Creeping Buttercup		r	
Reseda lutea	Wild Mignonette		0	
Rumex obtusifolius	Broad-leaved Dock		r	
Sambucus nigra	Elder		r	WS
Senecio jacobaea	Common Ragwort	0	f	
Silene vulgaris	Bladder Campion		0	CG
Sonchus arvensis	Perennial Sow-thistle		0	
Sonchus asper	Prickly Sow-thistle		r	
Taraxacum officinale agg.	Dandelion		r	
Trifolium repens	White Clover		r	
Ulmus procera	English Elm	f	la	WP
Urtica dioica	Common Nettle	а	f	
Veronica serpyllifolia	Thyme-leaved Speedwell	r		
Viburnum lantana	Wayfaring-tree		r	WS

Southern section

Scientific name	Common name	Abunc 1998	lance 2005	Status
Acer pseudoplatanus	Sycamore	0	0	
Achillea millefolium	Yarrow	0		
Alliaria petiolata	Garlic Mustard	0		WP
Anagallis arvensis	Scarlet Pimpernel	r		
Anthriscus sylvestris	Cow Parsley		0	

Southern section (continued)

Scientific name	Common name	Abun 1998	dance 2005	Status
Arctium minus	Lesser Burdock		0	WP
Arctium sp.	a burdock	0		
Arenaria serpyllifolia sens. lat.	Thyme-leaved Sandwort	r		
Arrhenatherum elatius	False Oat-grass	f		
Artemisia vulgaris	Mugwort		f	
Ballota nigra	Black Horehound	lf	f	
Bryonia dioica	White Bryony	0	0	
Carex hirta	Hairy Sedge	0		NG
Cerastium fontanum	Common Mouse-ear	0		
Chaerophyllum temulum	Rough Chervil	0		
Chenopodium album	Fat-hen		lf	
Cirsium arvense	Creeping Thistle	0	r	
Cirsium vulgare	Spear Thistle	0		
Convolvulus arvensis	Field Bindweed		0	
Crataegus monogyna	Hawthorn	d	f-la	WS
Dactylis glomerata	Cock's-foot	f		
Dipsacus pilosus	Small Teasel		r	WP
Elytrigia repens	Common Couch		r	
Erysimum cheiranthoides	Treacle Mustard	r		
Festuca sp.	a fescue	0		
Fumaria officinalis	Common Fumitory	r		
Geranium molle	Dove's-foot Crane's-bill	0		
Hedera helix	lvy	f		WP
Hordeum murinum	Wall Barley	' If		
Hypochaeris radicata	Cat's-ear	0		
Lactuca serriola	Prickly Lettuce	U	r	
Lolium perenne	Perennial Rye-grass	а	0	
Malva sylvestris	Common Mallow	r	0	
Papaver rhoeas	Common Poppy	0	U	
Pastinaca sativa	Wild Parsnip	0		CG
Persicaria maculosa	Redshank	r		00
Picris echioides	Bristly Oxtongue		f	
Plantago lanceolata	Ribwort Plantain	f	f	
Poa sp.	a meadow-grass	f	1	
Potentilla reptans	Creeping Cinquefoil	f	r	
Prunus sp.	a small plum	f	f	
Reseda lutea	Wild Mignonette	1	0	
Reseda luteola	Weld		0	
	Bramble	r	-	WP
Rubus fruticosus agg.	Curled Dock	0	r	VVF
Rumex crispus		0	-	
Rumex obtusifolius	Broad-leaved Dock		r -	WS
Sambucus nigra	Elder	0	r f	W3
Senecio jacobaea	Common Ragwort	0	f	
Silene latifolia	White Campion	0		00
Silene vulgaris	Bladder Campion	r	0	CG
Sonshus arvensis	Perennial Sow-thistle		0	
Sonchus asper	Prickly Sow-thistle	0	-	
Taraxacum officinale agg.	Dandelion		r	
Tragopogon pratensis	Goat's-beard	r		
Trifolium dubium	Lesser Trefoil	0		
Ulmus procera	English Elm	f		WP
Ulmus sp.	an elm	0		WP

Southern section (continued 2)

Scientific name	Common name		dance	Status
Urtica dioica	Common Nettle	1998 f	2005 f	
Veronica agrestis	Green Field-speedwell	r		
Veronica polita	Grey Field-speedwell	r		
Veronica serpyllifolia	Thyme-leaved Speedwell	r		
Viola arvensis	Field Pansy	0		

Short length of hedge to the south of the site

Scientific name	Common name	Abundance 1998 2005	
Acer pseudoplatanus	Sycamore	0	
Bryonia dioica	White Bryony	0	
Crataegus monogyna	Hawthorn	f-la	WS
Fraxinus excelsior	Ash	r	WS
Hedera helix	lvy	О	WP
Rubus fruticosus agg.	Bramble	r	WP

a f o r I	abundant frequent occasional rare locally
NG CG NG/CG NG* CG* NG*/CG*	Weak indicator species, neutral grassland Weak indicator species, calcareous grassland Weak indicator species, neutral and calcareous grassland Strong indicator species, neutral grassland Strong indicator species, calcareous grassland Strong indicator species, neutral and calcareous grassland
WP	Woodland plant used for determining woodland value

WS Woody species for determining scrub or hedgerow value

Botanical scientific nomenclature follows Stace CA (1997) New Flora of the British Isles (2nd ed.) CUP.

Fauna, entire site

Scientific name	Common name	Abundance Status 1998 2005
Oryctolagus cuniculus	Rabbit	р р
Phylloscopus trochilus	Willow Warbler	р
Regulus regulus	Goldcrest	р
Sturnus vulgaris	Starling	50
Sylvia atricapilla	Blackcap	р

p present

SITE RECORD SHEET

SITE NAME:	Ditton Meadows
Site code:	H7.5
Grid ref:	TL476600
Date of survey:	22/9/05

Surveyor: Steve Hartley

Habitat information

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Site area:

15.87 ha

Site description

This site consists of four flood meadows on the south side of the River Cam, with drains, some hedges, and areas of adjacent scrub woodland. The grasslands remain substantially improved. The southern and eastern fields are divided only partially by a damp ditch and are here treated as one. The drains have a wide range of wetland plants. At the time of survey the whole site was being cattle-grazed as one block and the average sward height was 20cm. The far south-western corner of the site has grown up and largely lost its previously recorded drier grassland area to scrub. Similar flood meadows and ditches continue to the east beyond the city boundary, as well as a young woodland plantation, and Stourbridge Common City Wildlife Site lies across the railway to the west.

The grassland is very similar across the four fields, consisting mostly of an improved sward dominated throughout by grasses, such as Perennial Rye-grass *Lolium perenne*, Creeping Bent *Agrostis stolonifera*, Cock's-foot *Dactylis glomerata* and in places by Creeping Thistle *Cirsium arvense*. The forb species are uninteresting. The only indicator species found was Hairy Sedge *Carex hirta*, which grows mainly in the wetter, lower, areas. These lie throughout much of the western field and around the boundary between the northern and southern/eastern fields. At the time of the survey the western field had a small area of standing water. Other species in the wetter areas include Tufted Hair-grass

Deschampsia cespitosa, Greater Pond-sedge Carex riparia, and Hard Rush Juncus inflexus.

The central and eastern ditch system has more interest. The ditches are 2-4m wide and total approximately 1000m in length. The water depth ranges from puddled mud to over 50cm. Grazing cattle have moderately poached their banks. They are largely unshaded. A broken hedge, 2-4m tall, runs along the western edge of the southern/eastern field, which becomes taller and denser at its western end where it runs beside the disused railway. Here the ditch dries out. Despite this shade, the section of ditch beside the lower portion of the hedge appeared to be the most diverse on the site. In two 20m transects, 10 and 11 species of submerged, floating, emergent and wetbank vegetation were recorded. Sampling of the submerged and floating plants was not comprehensive so these figures are likely to be underestimates. The rest of the ditch system is filled in large part by Reed Sweet-grass Glyceria maxima and Greater Pond-sedge Carex riparia, with frequent Hard Rush on the wet banks, and other plants such as Lesser Water-parsnip Berula erecta being locally frequent. Towards the eastern end there is an area where the water is more open. Here Spiked Water-milfoil Myriophyllum spicatum is abundant and stoneworts are found at the water's-edge. The ditch at the extreme east of the site is lined at its southern and eastern end, where it eventually dries out, by increasing scrub and mature trees, including several large Ash Fraxinus excelsior.

Coldham's Brook is mostly heavily shaded where it runs across the site, and channel vegetation is infrequent. The overflow ditch which runs along the western margin of the site, from Coldham's Brook to the Cam, is inaccessible and was surveyed from beyond a high fence. Nevertheless a diverse wetland flora was apparent, especially at the north end where the ditch has standing water.

The southern boundary of the southern/eastern field is a largely defunct hedge. At the western end it is tall and has thickened to a small area of dense scrub in the field's west corner. As the hedge runs east it thins and reduces in height, until at the eastern end it is thin and is a very widely scattered line of bushes. Much of the adjacent disused railway has been added to adjoining gardens.

The south-eastern corner of the site is largely inaccessible, and was mostly recorded from the footbridge over the railway. This area now has rank vegetation in the northern corner, dominated by Common Nettles *Urtica dioica* and Hedge Bindweed *Calystegia sepium*, merging into dense scrub of Hawthorn *Crataegus monogyna* and a suckering elm *Ulmus sp.* in the central strip, and mature trees, including Ash, bordering the disused railway.

The site is much used for exercising dogs. The cyclepath, which has been built since the last survey and runs from Stourbridge Common along the river via a parapet under the railway, has increased the numbers of walkers and cyclists across the site. Despite this use the central part of the site is reasonably undisturbed – a Snipe *Gallinago gallinago* was flushed from the ditch between the northern and southern/eastern fields during the present survey, and Grey Heron *Ardea cinerea* also regularly hunt along there.

Site assessment

The site is a City Wildlife Site (City WS) qualifying under criterion 2.17, an area of undeveloped floodplain directly associated with the River Cam County Wildlife Site. The central drain system qualifies as a City WS in its own right under the linear water body criterion (2.13), and also for Greater Pond-sedge swamp (criterion 2.11ai). The Coldham's Brook overflow ditch is likely to qualify under the linear water body criterion (2.13). Coldham's Brook is a CityWS in its own right under criterion 2.14.

SPECIES LISTS

Southern/eastern field, grassland

Scientific name	Common name		ndance 2005	Status
Acer campestre	Field Maple		r	WS
Acer pseudoplatanus	Sycamore	r	r	
Achillea millefolium	Yarrow		0	
Agrostis stolonifera	Creeping Bent	la	а	
Alnus glutinosa	Alder		r	WP
Anthriscus sylvestris	Cow Parsley		0	
Arrhenatherum elatius	False Oat-grass		f	
Artemisia vulgaris	Mugwort		r	
Bellis perennis	Daisy		lf	
Bryonia dioica	White Bryony	r		
Carduus crispus	Welted Thistle	r		
Carex hirta	Hairy Sedge		lf	NG
Carex riparia	Great Pond-sedge		lf	
Carpinus betulus	Hornbeam		r	WP
Chenopodium album	Fat-hen		r	
Cirsium arvense	Creeping Thistle	0	f-la	
Cirsium vulgare	Spear Thistle	0	0	
Conium maculatum	Hemlock		lf	
Convolvulus arvensis	Field Bindweed		r	
Crepis capillaris	Smooth Hawk's-beard	r	r	
Cynosorus cristatus	Crested Dog's-tail		0	
Dactylis glomerata	Cock's-foot	f	f	
Deschampsia cespitosa	Tufted Hair-grass		0	
Festuca rubra agg.	Red Fescue		0	
Fraxinus excelsior	Ash		0	
Glechoma hederacea	Ground-ivy	0		WP
Glyceria sp.	a sweet-grass		lf	
Heracleum sphondylium	Hogweed		0	
Holcus lanatus	Yorkshire-fog		f	
Hordeum murinum	Wall Barley	0	0	
Hypochaeris radicata	Cat's-ear	0		
Juncus inflexus	Hard Rush	0	o-lf	
Lamium album	White Dead-nettle		lf	
Lolium perenne	Perennial Rye-grass	а	f	
Malva neglecta	Dwarf Mallow	r		
Malva sylvestris	Common Mallow	r	0	
Medicago arabica	Spotted Medick		lf	
Persicaria maculosa	Redshank		lf	
Phalaris arundinacea	Reed Canary-grass		0	
Phleum bertolonii	Smaller Cat's-tail	f		
Phleum pratense	Timothy	f	f	
Picris echioides	Bristly Oxtongue		0	
Plantago lanceolata	Ribwort Plantain		0	
Plantago major	Greater Plantain		0	
Poa sp.	a meadow-grass	f		
Prunus spinosa	Blackthorn		0	WS
Ranunculus acris	Meadow Buttercup		o-lf	
Ranunculus repens	Creeping Buttercup	f	o-lf	
Rosa canina agg.	Dog Rose		0	

Southern/eastern field, grassland (continued)

Scientific name	Common name		ndance 2005	Status
Rubus fruticosus agg.	Bramble		lf	WP
Rumex conglomeratus	Clustered Dock	0		
Rumex obtusifolius	Broad-leaved Dock		0	
Senecio jacobaea	Common Ragwort	0	0	
Stellaria media	Common Chickweed	r	0	
Taraxacum officinale agg.	Dandelion	0	o-lf	
Tilia x europaea	Lime		r	
Trifolium repens	White Clover	f	f-la	
Tripleurospermum inodorum	Scentless Mayweed		r	
Urtica dioica	Common Nettle	0	o-la	

Northern field, grassland

Scientific name	Common name		ndance 3 2005	Status
Agrostis stolonifera	Creeping Bent	а	а	
Anthriscus sylvestris	Cow Parsley		0	
Arctium minus	Lesser Burdock		r	WP
Arrhenatherum elatius	False Oat-grass		f	
Carex flacca	Glaucous Sedge	0		NG*/CG*
Carex hirta	Hairy Sedge	0	lf	NG
Carex riparia	Great Pond-sedge		la	
Cirsium arvense	Creeping Thistle	0	f-la	
Coronopus squamatus	Swine-cress		0	
Crepis capillaris	Smooth Hawk's-beard		r	
Dactylis glomerata	Cock's-foot	f	f	
Deschampsia cespitosa	Tufted Hair-grass		0	
Elytrigia repens	Common Couch		r	
Festuca rubra agg.	Red Fescue		0	
Geranium molle	Dove's-foot Crane's-bill		r	
Glyceria sp.	a sweet-grass		0	
Hordeum murinum	Wall Barley	0	r	
Juncus inflexus	Hard Rush	0	o-lf	
Lamium purpureum	Red Dead-nettle		r	
Leontodon autumnalis	Autumnal Hawkbit	r		
Lolium perenne	Perennial Rye-grass	а	f	
Phleum bertolonii	Smaller Cat's-tail	f		
Phleum pratense	Timothy		f	
Plantago major	Greater Plantain	0	lf	
Poa sp.	a meadow-grass	f		
Ranunculus acris	Meadow Buttercup		0	
Ranunculus repens	Creeping Buttercup	f		
Rumex crispus	Curled Dock	0		
Rumex obtusifolius	Broad-leaved Dock		r	
Senecio jacobaea	Common Ragwort		0	
Stellaria media	Common Chickweed		r	
Taraxacum officinale agg.	Dandelion	0	o-lf	
Trifolium repens	White Clover		f	
Urtica dioica	Common Nettle		o-lf	

Western field, grassland

Scientific name	Common name		ndance 3 2005	Status
Achillea millefolium	Yarrow		0	
Agrostis stolonifera	Creeping Bent	f	а	
Anthriscus sylvestris	Cow Parsley	0	o-lf	
Arctium minus	Lesser Burdock		0	WP
Armoracia rusticana	Horse-radish		0	
Arrhenatherum elatius	False Oat-grass		f	
Bellis perennis	Daisy		0	
Carex flacca	Glaucous Sedge	0		NG*/CG*
Carex hirta	Hairy Sedge		lf	NG
Carex riparia	Great Pond-sedge		f-la	
Cirsium arvense	Creeping Thistle	0	f-la	
Cirsium vulgare	Spear Thistle	0	0	
Crataegus monogyna	Hawthorn	0	r	WS
Crepis capillaris	Smooth Hawk's-beard	r	r	
Dactylis glomerata	Cock's-foot	f	f	
Deschampsia cespitosa	Tufted Hair-grass	f	f	
Dipsacus fullonum	Wild Teasel	r	r	
Elytrigia repens	Common Couch		0	
Equsetum arvense	Field Horsetail		r	
Festuca rubra agg.	Red Fescue		0	
Fraxinus excelsior	Ash	r	r	WS
Galium aparine	Cleavers		lf	
Glechoma hederacea	Ground-ivy		0	WP
Glyceria maxima	Reed Sweet-grass	0		
Holcus lanatus	Yorkshire-fog	р		
Hordeum murinum	Wall Barley	f	r	
Hypochaeris radicata	Cat's-ear	r		
Juncus inflexus	Hard Rush	0	o-lf	
Linaria vulgaris	Common Toadflax		r	
Lolium perenne	Perennial Rye-grass	а	f	
Malva sylvestris	Common Mallow		r	
Persicaria maculosa	Redshank		0	
Phalaris arundinacea	Reed Canary-grass	0		
Phleum pratense	Timothy		f	
Plantago major	Greater Plantain		lf	
Poa sp.	a meadow-grass	f		
Prunus spinosa	Blackthorn	r		WS
Ranunculus acris	Meadow Buttercup		0	
Ranunculus repens	Creeping Buttercup	f	f-la	
Rosa canina agg.	Dog Rose	0		
Rubus fruticosus agg.	Bramble	r	lf	WP
Rumex acetosa	Common Sorrel		r	NG
Rumex obtusifolius	Broad-leaved Dock		0	
Salix sp.	a willow		0	
Sambucus nigra	Elder		r	WS
Senecio jacobaea	Common Ragwort	ο	0	
Stellaria media	Common Chickweed	ο	r	
Taraxacum officinale agg.	Dandelion	0	lf	
Trifolium repens	White Clover	f	f	
Tussilago farfara	Colt's-foot		r	
Urtica dioica	Common Nettle	0	lf	

South-western corner

Acer pseudoplatanusSycamoreoAchillea millefoliumYarrowIfAchillea millefoliumAprimonyoNG/CGAgrinonia quaptariaAprimonyoNG/CGArginonia quaptariaBaren BromeoAnisantha sterillisBaren BromeoAnthriscus sylvestrisCow ParsleyIfIfArthenatherum elatiusFalse Oat-grassIdoArtensia vulgarisMugwoto-Artensia vulgarisMugwoto-Calystegia silvaiteaLarge Bindweedo-Calystegia silvaiteaLarge Bindweedo-Cartarea nigraCommon Knapweedo-Cratarea nigraCommon KnapweedoWPChamerion angustifolumRosebay Willowherb-WPConvolvulus arvensisField BindweedIf-Crataegus monogynaHawthornIfIfEquisetum arvenseField HorsetailIf-Equisetum arvenseField Horsetailo-Equisetum arvenseField Horsetailo-Cartaegus monogynaAbstrestailo-Pastuca rubra agg.Ref FescueIf-Fastuca rubra agg.Ref FescueIf-Frastuca rubra agg.Red Fescuer-Gelalium verunLady's Bedstrawo-Glechoma hederaceaGroun-tivyooGlechoma hederaceaGroun-tivyo<	Scientific name	Common name		ndance 3 2005	Status
Agrimonia eupatoriaAgrimonyoING/CGAgrostis sp.a bent-grassIfIfAnisantha sterilisBarren BromeoAnthriscus sylvestrisCow ParsleyIfIfArmoracia rusteanaHorse-radishIfArthenatherum elatiusFalse Oat-grassIdoArter sp.a michaelmas-daisyo-Calystegia sepiumHedge Bindweedo-Calystegia sepiumHedge Bindweedo-Calystegia sepiumRosebay Willowherbo-Calystegia silvaticaLarge Bindweedff-Chamerion angustifoliumRosebay Willowherbo-Cirsium arvenseCreeping ThistleIfIfCirsium arvenseField Bindweedif-Crataegus monogynaHawthornIdoWSDactylis glomerataCock's-footIfIfEquisetum sp.a horsetailoFastuca rubra agg.Red FescueIf-Fastusa rubra agg.Red FescueIf-Fastusa rubra agg.Red Fescuer-Heracleum sphondyliumHogweedo-Heracleum sphondyliumHogweedo-Lady spatensisGarden Lupino-Ladyus gratensisMaruto-Ladyus gratensisMarutLadyus gratensisMaruto-Glichoran hederaceaGrou	Acer pseudoplatanus	Sycamore	0		
Agrostis sp.a bent-grassIfAnisantha sterilisBarren BromeoAnthiscus sylvestrisCow ParsleyIfIfArmoracia rusticanaHorse-radishIfArthenatherum elatiusFalse Oat-grassIdoArtemisia vulgarisMugworto-Aster sp.a michaelmas-daisyo-Calystegia sepiumHedge Bindweedo-Calystegia silvaticaLarge Bindweedo-Contaurea nigraCommon KnapweedoWPCinsium arvenseCreeping ThistleIfIfCiraturea nigraCorkinon KnapweedoWPConvolvulus arvensisField BindweedIf-Creatagus monogynaHawthornIdoWSDactylig glomerataCock's-footIfIfEquisetum sp.a horsetailIf-Faxinus excelsiorAshooWPGalium verumLady's Bedstrawo-MG/CGGlechoma hederaceaGround-ivyooWPJuglans regiaWalnutoLatruca serriolaPrickly LettucerLatrus astivaWild ParsnipoGlechoma hederaceaGround-ivyooWPGlechoma hederaceaGround-ivyoo-Glechoma hederaceaGround-ivyoo-Latruca serriolaPrickly Lettucer <td>Achillea millefolium</td> <td>Yarrow</td> <td>lf</td> <td></td> <td></td>	Achillea millefolium	Yarrow	lf		
Anisanth asterilisBarne BromeoAnisanth asterilisBarne BromeoAnthriscus sylvestrisCow ParsleyIfIfIfArrhenacia rusticanaHorse-radishIfArtemisia vulgarisMugwortoAster sp.a michaelmas-daisyoCalystegia sepiumHedge BindweedfCalystegia silvaticaLarge BindweedoCalystegia silvaticaCommon KnapweedoCentaurea nigraCommon KnapweedoCirsium arvenseCreeping ThisiteIfIfIfClematis vitabaTravellers'joyoConvolvulus arvensisField BindweedIfCrataegus monogynaHawthornIdoHawthornIdoWSDactylis glomerataCock's-footIfEquisetum arvenseField HorsetailoEquisetum arvenseField HorsetailoFraxinus excelsiorAshoNG/CGGalum verumLady's BedstrawoWSGalum verumLady's BedstrawoNG/CGJuglans regiaWalnutoLathy Seree SizeLathy pratensisMeadow YetchlingoNG/CGLathyrus pratensisMeadow VetchlingoNG/CGLathyrus pratensisMeadow VetchlingoNG/CGLathyrus pratensisMeadow VetchlingoNG/CGLathyrus pratensisMeadow VetchlingoNG/CGLadium serial	Agrimonia eupatoria	Agrimony	0		NG/CG
Anthriscus sylvestrisCow ParsleyIfIfArmoracia rusticanaHorse-radishIfArrhenaitherum elatiusFalse Oat-grassIdoArternsia vulgarisMugworto-Calystegia sepiumHedge Bindweedf-Calystegia silvaticaLarge Bindweedo-Calystegia silvaticaLarge Bindweedo-Chamerion angustifoliumRosebay Willowherbo-Crisium arvenseCreeping ThistleIfIfClematis vitalbaTravellers'-joyoWPConvolvulus arvensisField BindweedIf-Crataegus monogynaHawthornIdoWSDactylis glomerataCock's-footIfIfEquisetum arvenseField HorsetailIf-Equisetum arvenseField HorsetailIf-Equisetum arvenseField HorsetailIf-Equisetum arvenseField HorsetailIf-Fraxinus excelsiorAshooWPGliconna hederaceaGround-ivyooWPGlyceria sp.a sweet-grasso-NG/CGHeracleum sphondyliumHogweedoHordeum muriumWallarterspio-NG/CGJuglans regiaWalnutoLadiva seriolaFick/Latitucerr-Latitur as arteriosMeadow Vetchlingo-	Agrostis sp.	a bent-grass	lf		
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Glyceria sp.a sweet-grassoHeracleum sphondyliumHogweedorHordeum murinumWall BarleyoJuglans regiaWalnutoJuglans regiaWalnutorLactuca serriolaPrickly LettucerLarnium albumWhite Dead-nettleooNGLathyrus pratensisMeadow VetchlingoNGLathyrus pratensisMeadow VetchlingoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPoa sp.a meadow-grassoNG/CGPoa sp.a meadow-grassoVPrunus spinosaBlackthornrWSRibes rubrumRed CurrantrWSRibes rubrumDewberryIfWPRubus caesiusDewberryIfWPRubus futicosus agg.BrambleIaaRumex acetosaCormon SorreloNGRumex sanguineusWood DockIfWP	Galium verum	Lady's Bedstraw	0		NG/CG
Heracleum sphondyliumHogweedorHordeum murinumWall BarleyoJuglans regiaWalnutoLactuca serriolaPrickly LettucerLamium albumWhite Dead-nettleooLathyrus pratensisMeadow VetchlingoNGLeucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPoa sp.a meadow-grassIfPoa sp.a meadow-grassIfPrunus spinosaBlackthornrWSRibes rubrumRed CurrantrWSRibes rubrumDog RoseoRubus fruticosus agg.BrambleIaaRumex acetosaCommon SorreloNGRumex sanguineusWood DockIfWP	Glechoma hederacea	Ground-ivy	0	0	WP
Hordeum murinumWall BarleyoJuglans regiaWalnutoLactuca serriolaPrickly LettucerLamium albumWhite Dead-nettleooLathyrus pratensisMeadow VetchlingoNGLeucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa sp.a meadow-grassIfPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRibes rubrumRed CurrantrWPRubus caesiusDog RoseoRubus fruticosus agg.BrambleIaaRumex acetosaCommon SorreloNGRumex sanguineusWood DockIfWP	Glyceria sp.	a sweet-grass		0	
Juglans regiaWalnutoLactuca serriolaPrickly LettucerLarnium albumWhite Dead-nettleooLathyrus pratensisMeadow VetchlingoNGLeucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPoa sp.a meadow-grassfPoa sp.a meadow-grassoNG/CGPrunus spinosaBlackthornIdrRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRubus caesiusDog RoseoRubus fruticosus agg.BrambleIaaRumex acetosaCommon SorreloNGRumex sanguineusWood DockIfWP	Heracleum sphondylium	Hogweed	0	r	
Lactuca serriolaPrickly LettucerLamium albumWhite Dead-nettleooLathyrus pratensisMeadow VetchlingoNGLeucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPoa sp.a meadow-grassIfPoa sp.a meadow-grassoNG/CGPrunus spinosaBlackthornIdrRibes rubrumRed CurrantrWSRibes rubrumDog RoseoRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaRumex acetosaCommon SorreloNGRumex sanguineusWood DockIfWP	Hordeum murinum	Wall Barley		0	
Lamium albumWhite Dead-nettleoooLathyrus pratensisMeadow VetchlingoNGLeucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloRumex sanguineusWood DockIfWP	Juglans regia	Walnut	0		
Lathyrus pratensisMeadow VetchlingoNGLeucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRibes rubrumRed CurrantrWSRubus caesiusDog RoseoRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloRumex sanguineusWood DockIfWP	Lactuca serriola	Prickly Lettuce		r	
Leucanthemum vulgareOxeye DaisyoNG/CGLolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRibes rubrumRed CurrantrWSRubus caesiusDog RoseoRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex sanguineusWood DockIfWP	Lamium album	White Dead-nettle	0	0	
Lolium perennePerennial Rye-grassIfLupinus polyphyllusGarden LupinoCGPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRibes rubrumRed CurrantrWSRubus caesiusDog RoseoRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex sanguineusWood DockIfWP	Lathyrus pratensis	Meadow Vetchling	0		NG
Lupinus polyphyllusGarden LupinoPastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockfWPRumex sanguineusWood DockIfWP	Leucanthemum vulgare	Oxeye Daisy	0		NG/CG
Pastinaca sativaWild ParsnipoCGPhleum pratenseTimothyoNG/CGPimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grasslfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornldrWSRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoRubus fruticosus agg.BramblelaaWPRumex acetosaCommon SorreloNGRumex sanguineusWood DocklfWP	Lolium perenne	Perennial Rye-grass		lf	
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Pimpinella saxifragaBurnet-saxifrageoNG/CGPoa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoRubus caesiusDewberryIfWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockfWPRumex sanguineusWood DockIfWP	Pastinaca sativa	Wild Parsnip	0		CG
Poa pratensis sens. lat.Smooth Meadow-grassIfPoa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoVPRubus caesiusDewberryIfWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockfWP	Phleum pratense	Timothy		0	
Poa sp.a meadow-grassoPotentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoVPRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockIfWP	Pimpinella saxifraga	Burnet-saxifrage	0		NG/CG
Potentilla reptansCreeping CinquefoiloPrunus spinosaBlackthornIdrWSRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoWPRubus caesiusDewberryIfWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoWP	Poa pratensis sens. lat.	Smooth Meadow-grass	lf		
Prunus spinosaBlackthornIdrWSRhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoWPRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoWP	Poa sp.	a meadow-grass		0	
Rhamnus catharticaBuckthornrWSRibes rubrumRed CurrantrWPRosa canina agg.Dog RoseoRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoWP	Potentilla reptans	Creeping Cinquefoil	0		
Ribes rubrumRed CurrantrWPRosa canina agg.Dog RoseoRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoWPRumex sanguineusWood DockIfWP	Prunus spinosa	Blackthorn	ld	r	WS
Rosa canina agg.Dog RoseoRubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoWPRumex sanguineusWood DockIfWP	Rhamnus cathartica	Buckthorn	r		WS
Rubus caesiusDewberryIfWPRubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoWPRumex sanguineusWood DockIfWP	Ribes rubrum	Red Currant	r		WP
Rubus fruticosus agg.BrambleIaaWPRumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoVRumex sanguineusWood DockIfWP	Rosa canina agg.	Dog Rose	0		
Rumex acetosaCommon SorreloNGRumex obtusifoliusBroad-leaved DockoRumex sanguineusWood DockIfWP	Rubus caesius	Dewberry	lf		WP
Rumex obtusifoliusBroad-leaved DockoRumex sanguineusWood DockIfWP	Rubus fruticosus agg.	Bramble	la	а	WP
Rumex sanguineus Wood Dock If WP	Rumex acetosa	Common Sorrel	0		NG
	Rumex obtusifolius	Broad-leaved Dock		0	
Salix cinerea Grey Willow r WS	Rumex sanguineus	Wood Dock	lf		WP
	Salix cinerea	Grey Willow	r		WS

South-western corner

Scientific name	Common name	Abundance 1998 2005		Status
Sambucus nigra	Elder	0	r	WS
Senecio erucifolius	Hoary Ragwort	0		NG/CG
Sisymbrium officinale	Hedge Mustard		r	
Solidago sp.	a goldenrod	0		
Taraxacum officinale agg.	Dandelion		0	
Torilis japonica	Upright Hedge-parsley	0		
Tragopogon pratensis	Goat's-beard	0		
Trifolium repens	White Clover		lf	
Ulmus procera	English Elm	la	lf	WP
Urtica dioica	Common Nettle		а	

Southern/eastern field, scrub in southwest corner and southern hedgerow

Scientific name	Common name	Abundance 1998 2005		Status
Acer campestre	Field Maple	0		WS
Crataegus monogyna	Hawthorn	f-la	lf	WS
Dactylis glomerata	Cock's-foot	f		
Fraxinus excelsior	Ash	0	0	WS
Hedera helix	lvy	f	0	WP
Prunus avium	Wild Cherry	r		WP
Prunus spinosa	Blackthorn	0		WS
Rosa canina agg.	Dog Rose	0	0	
Rubus fruticosus agg.	Bramble	f	0	WP
Sambucus nigra	Elder		0	WS
Ulmus glabra	Wych Elm	0		WP

Coldham's Brook and overflow drain, banks and in-channel vegetation

Scientific name	Common name		ndance 8 2005	Status
Acer pseudoplatanus	Sycamore		0	
Agrostis stolonifera	Creeping Bent		0	
Alliaria petiolata	Garlic Mustard	r		WP
Anthriscus sylvestris	Cow Parsley		0	
Apium nodiflorum	Fool's Water-cress	0		
Callitriche sp.	a water-starwort	0		
Calystegia sepium	Hedge Bindweed		0	
Carex riparia	Great Pond-sedge		la	
Crataegus monogyna	Hawthorn		0	WS
Dipsacus fullonum	Wild Teasel		r	
Epilobium hirsutum	Great Willowherb		f-la	
Equisetum arvense	Field Horsetail		0	
Filipendula ulmaria	Meadowsweet		0	
Fraxinus excelsior	Ash		0	WS
Galium aparine	Cleavers		0	
Glyceria maxima	Reed Swwet-grass		0	
Hedera helix	lvy	0	lf	WP
Heracleum sphondylium	Hogweed	0	r	
Humulus lupulus	Нор		r	
Impatiens glandulifera	Indian Balsam		0	
Lolium perenne	Perennial Rye-grass	а		

Coldham's Brook and overflow drain, banks and in-channel vegetation (continued)

Scientific name	Common name		ndance 2005	Status
Lycopus europaeus	Gypsywort		r	
Malus pumila	Apple		r	
Persicaria maculosa	Redshank		0	
Phragmites australis	Common Reed		lf	
Potentilla anserina	Silverweed		r	
Prunus spinosa	Blackthorn		la	WS
Quercus robur	Peduculate Oak		r	WS
Ranunculus repens	Creeping Buttercup		0	
Rorippa nasturtium-aquaticum agg.	Water-cress	lf	r	
Rosa canina agg.	Dog Rose		r	
Rubus caesius	Dewberry		0	WP
Rubus fruticosus agg.	Bramble		f-la	WP
Rumex obtusifolius	Broad-leaved Dock		0	
Salix sp.	a willow		0	
Sambucus nigra	Elder	r	r	WS
Solanum dulcamara	Bittersweet		0	
Solidago sp.	a goldenrod		r	
Sparganium erectum	Branched Bur-reed		0	
Symphytum officinale	Common Comfrey		lf	
Stachys palustris	Marsh Woundwort		r	
Ulmus sp.	an elm		0	WP
Urtica dioica	Common Nettle	f	f-la	
Veronica beccabunga	Brooklime		0	
		f		

Western field, eastern drain

Scientific name	Common name		ndance 2005	Status
Alisma plantago-aquatica	Water-plantain	r		
Apium nodiflorum	Fool's Water-cress	f		
Berula erecta	Lesser Water-parsnip		o-lf	
Carex hirta	Hairy Sedge		r	NG
Cirsium arvense	Creeping Thistle		0	
Epilobium hirsutum	Great Willowherb	0		
Epilobium parviflorum	Hoary Willowherb		r	
Glyceria maxima	Reed Sweet-grass	la	a-ld	
Juncus inflexus	Hard Rush	0	f	
Jumcus subnodulosus	Blunt-flowered Rush		r	
Lemna minor	Common Duckweed	0	0	
Lycopus europaeus	Gypsywort		0	
Myosotis scorpioides	Water Forget-me-not	0	0	
Myriophyllum sp.	a water-milfoil	0		
Persicaria amphibia	Amphibious Bistort	0		
Phalaris arundinacea	Reed Canary-grass	lf	0	
Ranunculus repens	Creeping Buttercup		lf	
Ranunculus sceleratus	Celery-leaved Buttercup	f		
Rorippa nasturtium-aquaticum agg.	Water-cress		0	
Rumex obtusifolius	Broad-leaved Dock		0	
Sparganium erectum	Branched Bur-reed	а	0	
Typha latifolia	Great Reedmace	0		
Urtica dioica	Common Nettle		0	
Veronica beccabunga	Brooklime	0		

Western field, south-eastern drain

Scientific name	Common name		ndance 2005	Status
Agrostis stolonifera	Creeping Bent		0	
Alisma plantago-aquaticum	Water-plantain		f	
Berula erecta	Lesser Water-parsnip		o-lf	
Callitriche sp.	a water-starwort		f	
Carex acutiformis	Lesser Pond-sedge	lf		
Carex otrubae	False Fox-sedge	0		
Carex riparia	Great Pond-sedge	f	f-la	
Crataegus monogyna	Hawthorn		o-lf	WS
Dactylis glomerata	Cock's-foot		f	
Epilobium hirsutum	Great Willowherb	0	0	
Epilobium tetragonum	Square-stalked Willowherb	r		
Equisetum arvense	Field Horsetail		r	
Fraxinus excelsior	Ash		0	WS
Glyceria maxima	Reed Sweet-grass	f	f-la	
Glyceria sp.	a sweet-grass		0	
Hedera helix	lvy		0	WP
Juncus inflexus	Hard Rush	0	0	
Lemna minor	Common Duckweed	f	la	
Lemna triscula	Ivy-leaved Duckweed		la	
Lycopus europaeus	Gypsywort		0	
Mentha aquatica	Water Mint	0	0	
Myriophyllum sp.	a water-milfoil	0		
Phalaris arundinacea	Reed Canary-grass		0	
Ranunculus repens	Creeping Buttercup		lf	
Ranunculus sceleratus	Celery-leaved Buttercup	0		
Ranunculus sp.	a water-crowfoot		r	
Rorippa nasturtium-aquaticum agg.	Water-cress		0	
Rosa canina agg.	Dog-rose		0	
Rubus fruticosus agg.	Bramble		lf	WP
Salix sp.	a willow		r	
Sambucus nigra	Elder		r	WS
Scrophularia auriculata	Water Figwort	0	r	
Solanum dulcamara	Bittersweet	0	r	
Sparganium erectum	Branched Bur-reed	lf	lf	
Typha latifolia	Great Reedmace	r	lf	
Ulmus sp.	an elm		r	WP
Urtica dioica	Common Nettle		0	
Veronica anagallis-aquatica	Blue Water-speedwell		r	
Veronica beccabunga	Brooklime	0	0	
Zannichellia palustris	Horned Pondweed		0	

Southern/eastern field, short dividing drain

Scientific name	Common name		ndance Status 8 2005
Agrostis stolonifera	Creeping Bent		lf
Apium nodiflorum	Fool's Water-cress	f	
Berula erecta	Lesser Water-parsnip		f
Carex riparia	Greater Pond-sedge	f	f
Cirsium arvense	Creeping Thistle		0
Epilobium parviflorum	Hoary Willowherb		r

Scientific name	Common name		ndance 2005	Status
Glechoma hederacea	Ground-ivy		0	WP
Glyceria maxima	Reed Sweet-grass	f	f	
Juncus effusus	Soft Rush	r		
Juncus inflexus	Hard Rush	f	f	
Lemna minor	Common Duckweed	0		
Mentha aquatica	Water Mint	0		
Myosotis scorpioides	Water Forget-me-not	r		
Persicaria amphibia	Amphibious Bistort	0		
Persicaria maculosa	Redshank		r	
Ranunculus acris	Meadow Buttercup		r	
Ranunculus repens	Creeping Buttercup		0	
Ranunculus sceleratus	Celery-leaved Buttercup	0		
Ranunculus sp.	a water-crowfoot		r	
Rorippa nasturtium-aquaticum agg.	Water-cress		0	
Rumex obtusifolius	Broad-leaved Dock		0	
Scrophularia auriculata	Water Figwort		f	
Sparganium erectum	Branched Bur-reed	f		
Taraxacum officinale agg.	Dandelion		r	
Urtica dioica	Common Nettle		r	
Veronica beccabunga	Brooklime	0	lf	

Southern/eastern field, northern boundary drains - central section

Scientific name	Common name		ndance 2005	Status
Agrostis stolonifera	Creeping Bent		lf	
Apium nodiflorum	Fool's Water-cress	f		
Berula erecta	Lesser Water-parsnip		0	
Callitriche sp.	a water-starwort		lf	
Carex acutiformis	Lesser Pond-sedge	lf		
Carex riparia	Great Pond-sedge	lf	lf-la	
Chara sp.	a stonewort		0	
Crataegus monogyna	Hawthorn		lf	WS
Epilobium parviflorum	Hoary Willowherb		r	
Fraxinus excelsior	Ash		lf	WS
Glyceria maxima	Reed Sweet-grass	а	lf	
Hedera helix	lvy		lf	WP
Juncus effusus	Soft Rush	r		
Juncus inflexus	Hard Rush	0	lf	
Lemna minor	Common Duckweed	0		
Myosotis scorpioides	Water Forget-me-not	lf	lf	
Myriophyllum spicatum	Spiked Water-milfoil		la	
Phalaris arundinacea	Reed Canary-grass		0	
Prunus spinosa	Blackthorn		0	WS
Ranunculus sceleratus	Celery-leaved Buttercup	0	lf	
Rorippa nasturtium-aquaticum agg.	Water-cress		lf	
Rubus fruticosus agg.	Bramble		lf	WP
Rumex obtusifolius	Broad-leaved Dock		0	
Scrophularia auriculata	Water Figwort	0	0	
Sparganium erectum	Branched Bur-reed	lf	0	
Urtica dioica	Common Nettle		lf	
Veronica beccabunga	Brooklime	0	0	

Northern field, southern drain

Scientific name	Common name		ndance 2005	Status
Agrostis stolonifera	Creeping Bent		0	
Alisma plantago-aquatica	Water-plantain	0	0	
Apium nodiflorum	Fool's Water-cress	f		
Berula erecta	Lesser Water-parsnip		0	
Butomus umbellatus	Flowering Rush	r		
Callitriche sp.	a water-starwort		0	
Carex riparia	Great Pond-sedge	а	f-la	
Ceratophyllum demersum	Rigid Hornwort	0		
Chara sp.	a stonewort		r	
Cirsium arvense	Creeping Thistle		0	
Epilobium hirsutum	Great Willowherb		r	
Epilobium parviflorum	Hoary Willowherb		r	
Glyceria fluitans	Floating Sweet-grass	0		
Glyceria maxima	Reed Sweet-grass	lf	f-la	
Glyceria sp.	a sweet-grass		0	
Hippuris vulgaris	Mare's-tail	0		
Hottonia palustris	Water-violet	r		
Juncus inflexus	Hard Rush	0	f	
Lemna minor	Common Duckweed	0	0	
Lemna trisulca	Ivy-leaved Duckweed	0		
Lycopus europaeus	Gipsywort	r	0	
Myriophyllum spicatum	Spiked Water-milfoil		la	
Myriophyllum sp.	a water-milfoil	f		
Persicaria amphibia	Amphibious Bistort	0	r	
Phalaris arundinacea	Reed Canary-grass		0	
Ranunculus repens	Creeping Buttercup		0	
Ranunculus sceleratus	Celery-leaved Buttercup	0	r	
Rorippa nasturtium-aquaticum agg.	Water-cress		0	
Scrophularia auriculata	Water Figwort	0	0	
Solanum dulcamara	Bittersweet		r	
Sparganium erectum	Branched Bur-reed	0	f	
Taraxacum officinale agg.	Dandelion		r	
Veronica beccabunga	Brooklime	0		
Zannichellia palustris	Horned Pondweed		0	

Northern field, eastern drain

Scientific name	Common name		ndance Status 8 2005
Apium nodiflorum	Fool's Water-cress	f	
Berula erecta	Lesser Water-parsnip		0
Callitriche sp.	a water-starwort		0
Cardamine pratensis	Cuckoo-flower	0	
Carex acutiformis	Lesser Pond-sedge	0	
Carex riparia	Greater Pond-sedge		f-la
Cirsium arvense	Creeping Thistle		0
Glyceria maxima	Reed Sweet-grass	f	f-la
Epilobium parviflorum	Hoary Willowherb		r
Glyceria sp.	a sweet-grass		lf
Juncus articulatus	Jointed Rush	0	
Juncus inflexus	Hard Rush	0	f

Scientific name	Common name		ndance 3 2005	Status
Lemna minor	Common Duckweed	0		
Lycopus europaeus	Gipsywort	0	lf	
Myriophyllum spicatum	Spiked Water-milfoil		la	
Persicaria amphibia	Amphibious Bistort	0	r	
Phalaris arundinacea	Reed Canary-grass	f	0	
Rorippa nasturtium-aquaticum agg.	Water-cress		0	
Ranunculus repens	Creeping Buttercup		0	
Ranunculus sceleratus	Celery-leaved Buttercup	lf	0	
Sparganium erectum	Branched Bur-reed	f	f	
Trifolium repens	White Clover		0	
Veronica beccabunga	Brooklime	f	0	

Northern field, eastern drain (continued)

d	dominant
a	abundant
f	frequent
o	occasional
r	rare
I	locally
p	present
NG	Weak indicator species, neutral grassland
CG	Weak indicator species, calcareous grassland
NG/CG	Weak indicator species, neutral and calcareous grassland
NG*	Strong indicator species, neutral grassland
CG*	Strong indicator species, calcareous grassland
NG*/CG*	Strong indicator species, neutral and calcareous grassland
WP	Woodland plant used for determining woodland value
WS	Woody species for determining scrub or hedgerow value

Botanical scientific nomenclature follows Stace CA (1997) New Flora of the British Isles (2nd ed.) CUP.

Vertebrate fauna, entire site

Scientific name	Common name		ndance 2005
	medium-sized fish		8
Aegithalos caudatus	Long-tailed Tit	р	
Anthus pratensis	Meadow Pipit	р	2
Ardea cinerea	Grey Heron		1
Carduelis carduelis	Goldfinch		36
Delichon urbica	House Martin	р	
Dendrocopos major	Great Spotted Woodpecker	р	
Gallinago gallinago	Snipe		1
Gallinula chloropus	Moorhen		3
Hirundo rustica	Swallow	р	
Motacilla cinerea	Grey Wagtail		1
Parus major	Great Tit		1
Picus viridis	Green Woodpecker	р	
Rallus aquaticus	Water Rail	р	
Rana temporaria	Common Frog	р	1
Sturnus vulgaris	Starling		100+

Invertebrate fauna, entire site

Scientific name	Common name		ndance 2005
	anthills		1
Aeshna cyanea	Southern Hawker	р	
Aeshna mixta	Migrant Hawker		1
Gerris lacustris	Common Pondskater		р
Lycaena phlaeas	Small Copper	р	
Sympetrum striolatum	Common Darter	р	2

p present

SITE RECORD SHEET

SITE NAME:	Stourbridge Common
Site code:	G6.5
Grid ref:	TL469598
Date of survey:	4/7/05, and other dates earlier in the year.
Surveyor:	Steve Hartley

Habitat information

Code	Habitat type
A1.1.2 A3.1	Woodland: broadleaved, plantation Parkland/scattered trees: broadleaved
B6	Grassland: poor semi-improved
F2.2 G1	Marginal/inundation: inundation Open water: standing water

Site area:

~ .

17.76 ha

Site description

An area of cattle- and horse-grazed common land with planted trees, mostly scattered but also in blocks on the south side. The trees were not considered in detail in the present survey.

The main body of the sward still consists of a wide variety of grasses, with very few forbs other than weed species. The only frequent grassland indicator is Meadow Barley *Hordeum secalinum*, with Strawberry Clover *Trifolium fragiferum* locally frequent close to the river. The sward has recently deteriorated over large sections of this large site. Heavy poaching due to grazing in the exceptionally dry periods of the last two years permitted Creeping Thistle *Cirsium arvense*, Common Nettle *Urtica dioica* and other ruderal plants to become abundant over large areas of the site, before it was topped in the spring. Ground disturbance over much of the west end, due to electric cable laying last winter, exacerbated the problem. The topping has reduced the abundance of pernicious weeds but they remain a severe problem and will need treating for several years.

Several small, low-lying and wet, areas are apparent within the grassland, especially close to the track leading to the railway bridge; some have standing water. They have an inundation or wet grassland community, with frequent Hairy Sedge *Carex hirta* and rare Round-fruited Rush *Juncus compressus*. A larger area, on the south side of the site, has ankle-deep water and is mostly surrounded by broadleaved trees. This set of wetter areas includes some not found in the last survey, and not all those found in the last survey were apparent at the time of the present survey.

The site is a good bat feeding area, especially around the trees where Pipistrelles *Pipistrellus sp.* are regularly seen. The site is used by numerous birds, wintering and

breeding. Occasional Snipe *Gallinago gallinago* visit, especially in spring and autumn; the secluded southern wet area is a potential feeding ground. A flock of 33 Meadow Pipit *Anthus pratensis* were seen last winter, and 8 males held territories this spring; some were singing during the survey.

Site assessment

The site qualifies as a City Wildlife Site under criterion 2.17, an area of undeveloped floodplain directly associated with the River Cam County Wildlife Site.

SPECIES LISTS

Main body of grassland

Scientific name	Common name	Abuno 1998	lance 2005	Status
Achillea millefolium	Yarrow		0	
Agrostis stolonifera	Creeping Bent	f	f-la	
Alopecurus pratensis	Meadow Foxtail	f	0	
Angelica sylvestris	Wild Angelica		0	
Anisantha sterilis	Barren Brome		r	
Arctium minus	Lesser Burdock		r	WP
Arrhenatherum elatius	False Oat-frass	f	lf	
Ballota nigra	Black Horehound		r	
Calystegia sepium	Hedge Bindweed		r	
Capsella bursa-pastoris	Shepherd's-purse		r	
Cardamine pratensis	Lady's Smock		r	NG
Carduus nutans	Musk Thistle		o-lf	
Carex hirta	Hairy Sedge	r	r	NG
Cirsium arvense	Creeping Thstle		f-la	
Cirsium vulgare	Spear Thistle		0	
Conium maculatum	Hemlock		r	
Crepis vesicaria	Beaked Hawk's-beard		r	
Cynosurus cristatus	Crested Dog's-tail	f	o-lf	
Dactylis glomerata	Cock's-foot	f	0	
Deschampsia cespitosa	Tufted Hair-grass	f	0	
Elytrigia repens	Common Couch		lf	
Epilobium hirsutum	Great Willowherb		r	
Festuca arundinacea	Tall Fescue	f	o-lf	
Festuca rubra	Red Fescue	f		
Galium aparine	Cleavers		r	
Glyceria maxima	Reed Sweet-grass		r	
Holcus lanatus	Yorkshire-fog	f	f-la	
Hordeum murinum	Wall Barley		lf-la	
Hordeum secalinum	Meadow Barley		o-lf	NG
Lactuca serriola	Prickly Lettuce		r	
Lapsana communis	Nipplewort		r	WP
Lolium perenne	Perennial Rye-grass	f	f	
Lotus corniculatus	Bird's-foot Trefoil		r	NG/CG
Lycopus europaeus	Gypsywort		r	
Lythrum salicaria	Purple-loosestrife		r	
Malva sylvestris	Common Mallow		0	
Matricaria discoidea	Pineappleweed		0	

Mycelis muralisWall LettucerOnonis spinosaSpiny RestharrowrNG/CGPhleum pratenseTimothyffPicris echioidesBristly Ox-tonguerPlantago lanceolataRibwort PlantainoPlantago majorGreat PlantainoPolygonum aviculareKnotgrassrPotentilla anserinaSilverweedoPotentilla reptansCreeping CinquefoiloPrunella vulgarisSelfhealrWPRanunculus acrisMeadow Buttercupf
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Public frutionous and Bromble alt MD
Rubus fruticosus agg. Bramble o-lf WP
Rumex obtusifolius Broad-leaved Dock o
Senecio jacobaea Common Ragwort o
Sonchus arvensis Perennial Sow-thistle r
Sonchus asper Prickly Sow-thistle r
Sonchus oleraceus Smooth Sow-thistle r
Stellaria media Common Chickweed o
Taraxacum officinale agg. Dandelion o
Trifolium fragiferum Strawberry Clover If NG
Trifoium repens White Clover o-If
Tripleurospermum maritimum Scentless Mayweed r
Urtica dioica Stinging Nettle o-la

Main body of grassland (continued)

Low-lying and wet areas and banks of Coldham's Brook

Scientific name	Common name	Abuno 1998	dance 2005	Status
Agrostis stolonifera	Creeping Bent	а	f	
Alopecurus geniculatus	Marsh Foxtail		f	
Apium nodiflorum	Fool's Water-cress		r	
Bellis perennis	Daisy	r		
Carex hirta	Hairy Sedge		lf	NG
Cirsium arvense	Creeping Thistle	0		
Coronopus squamatus	Swine-cress	r		
Cynosurus cristatus	Crested Dog's-tail	f		
Dactylis glomerata	Cock's-foot	0		
Festuca rubra	Red Fescue	f		
Geranium dissectum	Cut-leaved Crane's-bill	r		
Glyceria fluitans	Floating Sweet-grass		0	
Holcus lanatus	Yorkshire-fog	f		
Juncus articulatus	Jointed Rush		0	
Juncus compressus	Round-fruited Rush		r	NG
Juncus inflexus	Hard Rush		r	
Lolium perenne	Perennial Rye-grass	а		
Phleum bertolonii	Smaller Cat's-tail	r		
Plantago lanceolata	Ribwort Plantain	0		
Plantago major	Greater Plantain	0	0	
Poa annua	Annual Meadow-grass	f		
Potentilla anserina	Silverweed	lf	lf	
Ranunculus repens	Creeping Buttercup	f	lf	

Low-lying and wet areas and banks of Coldham's Brook (continued)

Scientific name	Common name		dance 2005	Status
Ranunculus sceleratus	Celery-leaved Buttercup	r		
Rorippa nasturtium-aquaticum	Water-cress		r	
Rumex crispus	Curled Dock	r		
Rumex obtusifolius	Broad-leaved Dock		la	
Taraxacum officinale agg.	Dandelion	0		
Trifolium repens	White Clover	0		
Tussilago farfara	Colt's-foot		r	
Veronica beccabunga	Brooklime		r	

Key:

a	abundant
f	frequent
o	occasional
r	rare
I	locally
NG	Weak indicator species, neutral grassland
CG	Weak indicator species, calcareous grassland
NG/CG	Weak indicator species, neutral and calcareous grassland
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NG*/CG*	Strong indicator species, neutral and calcareous grassland
WP	Woodland plant used for determining woodland value

Botanical scientific nomenclature follows Stace CA (1997) New Flora of the British Isles (2nd ed.) CUP.

Vertebrate fauna

Common name	Observa 1998	ation 2005
Skylark	present	
Meadow Pipit	present	2 ¹ , 8 singing males ³ , 33 winter ³
Goldfinch	10	occasional ²
House Sparrow		10 ¹
House Martin		10 ¹
Snipe		occasional ^{2,3}
Black-headed Gull		winter ²
Common Gull		30 winter ³
Swallow		feeding ^{2,3}
Blue Tit		1 ¹
Blackcap		2 ¹
Blackbird		1 ¹
Starling		frequent feeders ^{2,3}
Common Frog		pair in amplexus ³
pipistrelle bats		around trees ³
	Skylark Meadow Pipit Goldfinch House Sparrow House Martin Snipe Black-headed Gull Common Gull Swallow Blue Tit Blackcap Blackbird Starling Common Frog	1998SkylarkpresentMeadow PipitpresentGoldfinch10House Sparrow10House Martin5Snipe10Black-headed Gull10Common Gull10Swallow10Blue Tit10Blackbird10Starling10Common Frog10

1 Present survey 2 Steve Hartley, observed in last 12 months 3 Reported by Ian Webb (abundances in last 12 months)

Invertebrate fauna

Scientific name	Common name	Observa 1998	tion 2005
Pieris rapae	Small White Butterfly		1
Maniola jurtina	Meadow Brown Butterfly		6
Tyria jacobaeae	Cinnabar Moth		1
Coccinella septempunctata	7-spot Ladybird		1
Chorthippus parallelus	Meadow Grasshopper		abundant ¹
Chorthippus albomarginatus	Lesser Marsh Grasshopper		abundant ¹
Metrioptera roeseli	Roesel's Bush-cricket		occasional1

1 Steve Hartley, observed in previous summers