

Former Mepal Outdoor Centre, A142 Ireton's Way, Ely, Cambridgeshire

September 2020

Botanical Survey Report



Ref: 19-6364



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Appendix I: Vascular plants, charophytes and other species from Mepal Outdoor Centre Appendix II: Site Photos

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1. Site description



Site map (source: OpenStreetMap)

Surface geological mapping by the British Geological Survey shows that the site is situated on Quaternary deposits, with peat overlying Holocene river terrace sands and gravels. These sands and gravels have been extracted to form a lake, which takes up around half the site, mostly in the north. The other half comprises now derelict buildings, a car park and areas of open sand and gravel. Much of the margins of the site are vegetated, with planted shrubs along the margin next to the A142. It is part of the Mepal Gravel Pits County Wildlife Site (CWS) and was described by the Wildlife Trust in a 2005 survey that was carried out in July:





On the western side of the main road (A142) is a smaller pit that also holds clear water. Submerged vegetation appears to be very sparse and floating vegetation is almost entirely absent; such species include Elodea canadensis (Canadian Waterweed) and Potamogeton perfoliatus (Perfoliate Pondweed). A narrow intermittent fringe of marginal vegetation is present along the majority of the shore, particularly along the western and southeastern sides of the lake. Flora includes Phragmites australis (Common Reed), Lycopus europaeus (Gipsywort), Epilobium hirsutum (Great Willowherb), Scrophularia auriculata (Water Figwort), Lythrum salicaria (Purple Loosestrife), Eupatorium cannabinum (Hemp Agrimony), Juncus articulatus (Jointed Rush), Samolus valerandi (Brookweed), Myosotis scorpioides (Water Forget-me-not), Cyperus longus (Galingale) (probably introduced). In the southwestern corner of the lake Typha angustifolia (Lesser Bulrush) is locally abundant. The western side of the lake is backed by steep banks dominated by mature Salix alba (White Willow) and Crataegus monogyna (Hawthorn). At the southeast corner of the lake is an area well used for outdoor activities. Habitats include disturbed and species-poor grassland, bare ground and ephemeral vegetation on sandy soil, a large sand heap, a small area of Willow/Birch woodland on damp ground. A small part of the shoreline here is composed of an unvegetated sand and gravel beach.

The site (comprising the pits on both the west and east side of the A142) qualifies as a County Wildlife Site because it contains a water body supporting at least three species of pondweed (*Potamogeton spp.*) and because it supports a population of a Nationally Scarce vascular plant species, *Potamogeton trichoides* (Hairlike Pondweed).



Looking south from the reed fringed northern end



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In the assessment, the *Elodea canadensis* was probably a misidentification of the similar *E. nuttallii* (Nuttall's Waterweed), which was present in this survey. Although Nationally Scarce, *Potamogeton trichoides* is relatively common in Cambridgeshire, but is included in the county Register of Plants of Conservation Concern (RPCC) as it is in decline in England. *Potamogeton perfoliatus* is in decline in England and it is listed with a threat status of county Vulnerable in the RPCC.

Until recently, the site was run as Mepal Outdoor Centre, providing adventurous activities for young people, but following its closure after an arson attack there has been much vandalism. There is unauthorised access to the site, with anglers appreciating fishing for the large carp that live in the lake and travelling long distances to do so. When these were introduced is not clear, as such fish are often detrimental to other wildlife. The fishermen reported the probable presence of Otter. Many areas in the south of the site are kept open by Rabbit grazing, though this is often detrimental to some plants.



Site map with OS grid (Cucaera OSM)



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2. Survey Practice

Surveys for vascular plants and charophytes were carried out on 2020 April 9, May 19, July 7 and September 1. The site was divided into two main halves: the northern monad in TL4283 and the southern monad in TL4282, with each monad recorded separately. The north-western fringe of the site is in TL4183 and this was not accessed on the first visit. The entire site was walked through, covering as much ground as possible and the plant species recorded. The early spring visit allowed discovery of early flowering species that had not previously been recorded from the area. On the July and September visits, waders were used to access the shallower lake waters, with a grapnel used to dredge samples from deeper waters close to the shore. Although the survey has been thorough and comprehensive, some plants will have been missed. Some species are very ephemeral, others may not appear every year and it was impossible to cover every square metre of the site. In the written report nomenclature follows Stace IV (2019), but the electronic species lists and Appendix use Stace III (2010).

In total 276 plant species and subspecies have been recorded from the site and these are listed in the annotated Appendix, together with a few casual records of other taxa. The detailed records from the survey have been supplied separately in digital form.



3. Notable Species

Little Mouse-ear, Early Forget-me-not and Biting Stonecrop on sandy ground near the site entrance.





Anthriscus caucalis (Bur Chervil). This plant is listed in the RPCC as it is Vulnerable in Cambridgeshire having apparently been lost from a number of sites. This was one of them, with the plant not having been seen since 1975. It is particularly widespread at the south-western end of the site. It is a weak indicator of acidic grassland. Noted on the April visit and gone by the summer.

Carduus tenuiflorus (Slender Thistle). Currently recognised as a scarce plant in the county, but seemingly on the increase. There was a scattered population on the north- west bank on the May visit, with a larger population on a farm bund on the other side of the surrounding track.

Cerastium diffusum (Sea Mouse-ear). A rare and possibly declining species in the county, though new sites are being found. There was a small group of plants on the edge of one of the sand pits by the Outdoor Centre. This had sand of a different nature to that of the surrounding gravel, so could have been imported sea sand. The plant is also known from nearby Block Fen. Noted on the May visit and gone by the summer.

Cerastium semidecandrum (Little Mouse-ear). A spring flowering annual of dry, often sandy ground, this was a new hectad record. Plants were scattered across the site. It is a strong indicator of acidic grassland. Noted on the April visit and gone by the summer.

Chara hispida (Bristly Stonewort). On the July visit there were extensive stands of this stonewort in the shallower waters of the southern part of the lake. It is listed in the RPCC as county vulnerable due to a significant decline in monad occupancy.



Left: Common Stork's-bill, Right: Dune Stork's-bill

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Chenopodium hybridum (Maple-leaved Goosefoot). About a dozen plants were on the bank surrounding the site on the September visit. It is relatively common in the county, but it is thought to be in decline in England, hence it is included in the RPCC.

Cyperus longus (Galingale). There were a couple of patches on the southern shores of the lake, one possibly arising by self-sowing from the other, presumably introduced population. It is an alien species in Cambridgeshire, having first been recorded here in 1975. It is included in the RPCC as it is Near Threatened in England.

Erodium cicutarium subsp. dunense (Dune Stork's-bill). This subspecies is scattered in the flat, sandy southern area. It has smaller, paler petals than the common form. It is very rare in the county, with only one other site, which was an area of ground made good with Breckland infill. It is more often associated with coastal habitats and although Sell & Murrell associate it with the Brecks, there is only one record from there in the BSBI DDb. Microscopic determination of the mericarp was required to distinguish the plant from the similar E. lebelii.

Filago germanica (Common Cudweed). The plant lives up to its English name in Cambridgeshire and has perhaps become more common over the last 20 years. In England as a whole it is in decline and is listed as Near Threatened. It was mostly present around the car park gravels, with a few plants along dry track margins.

Fragaria vesca (Wild Strawberry). Plants were noted in the southern part of the site, mostly around the car park area and adventure playground. Although common in the county as a whole, it is quite uncommon in the Fens and these were the first hectad records. It is listed in the RPCC because it is Near Threatened in England.

Galium palustre (Marsh-bedstraw). This plant was seen during a brief visit to the site in 2018. It is county Vulnerable due to a decline in occupancy. It could still be present in the area of the southern beach.

Mentha arvensis (Corn Mint). There was a patch of the plants on the margin of one of the more open bays on the south-east side of the lake. Still relatively common in Cambridgeshire, it is Near Threatened in England. The plant is most readily identified from mid-summer onwards.

Myosotis ramossissima (Early Forget-me-not). Another spring flowering annual of dry, often sandy ground, this was also a new hectad record. The plant was widespread in bare sandy areas across the site. It is a weak indicator of acidic grassland. Noted on the April visit and gone by summer.

Nitella flexilis agg (Smooth Stonewort). I found strands of the plant at one of the fishing points on the west side of the lake on the July visit. They had presumably been dragged out from deep water. It was not fertile, so impossible to determine to species. *Nitella flexilis s.s.* is Nationally Scarce, however *Nitella opaca* (Dark Stonewort) is more frequent. Both species (and the aggregate) are county rare. The aggregate was reported from the eastern pit in 1977.

Ophrys apifera (Bee Orchid). This orchid is spreading northwards, historically being less common in the Fens. It was present in the unusual habitat of a bark-chipping bed at the site, in addition to more usual situations. Rosettes were noted on the April visit, with seed heads seen in July.



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Bee Orchid rosettes in a bark chipping bed

Polypogon monspeliensis (Annual Beard-grass). Flowering plants were scattered along the shoreline of the gently sloping south-east beach on the July visit. Although currently with a Nationally Scarce status for Great Britain, it has become much more common as a ruderal species since the GB list was compiled.

Potamogeton crispus (Curled Pondweed). Mostly found around the northern margins of the lake on the July visit. Although still common in both the county and England the plant is in decline at county level and hence is listed as Vulnerable in the RPCC.

Potamogeton perfoliatus (Perfoliate Pondweed). Two small plants were found in shallower water near the south-east lake margin on the July visit. By the September visit the number of plants had increased substantially, though all were small. Although still common in both the county and England the plant is in decline at both England and county level and is listed as Vulnerable in the RPCC.

Taraxacum glauciniforme (A Dandelion). Dandelions are rarely recorded to species level, but this is a quite distinctive species of open sandy ground. It is currently listed as county rare in the RPCC, but may be present more widely.

Typha angustifolia (Lesser Bulrush) was listed in a previous edition of the RPCC, and whilst still slightly in decline in the county this is no longer sufficient to warrant its inclusion in the Register. One threat to it could be hybridisation with *T. latifolia* (Bulrush), which is also present on the lake margin.

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4. Invasive Species

An appendix to the RPCC added in 2020 lists a number of plants that are a concern because they are invasive and have the potential to, or are, causing damage to wildlife sites. Several of these are present at the Mepal site. Some common species such as *Urtica dioica* (Nettle) and *Rubus fruticosus agg.* (Bramble) are not specifically listed in the RPCC, but are never-the-less threats to grassland and other open sites. The notifiable weeds *Cirsium arvense* (Creeping Thistle), *Cirsium vulgare* (Spear Thistle), *Rumex crispus* (Curled Dock), *Rumex obtusifolius* (Broad-leaved Dock) and *Jacobaea vulgaris* (Common Ragwort) are all present on the site.

Conium maculatum (Hemlock). There is a significant population on the banks around the site, particularly at the south end and adjacent to the A142. It can become dominant and will shade out other species.



A forest of Common Teasel in the southern part of the site

Dipsacus fullonum (Common Teasel). Teasel provides a nectar source for insects in summer and a winter food source for birds through its seed heads. It can however form dense, impenetrable stands, which shade out all other vegetation. Stands are developing in the southern part of the site.

Lepidium draba (Hoary Cress). This plant spreads through underground rhizomes and can form large patches, where it out-compete smaller plants. It is extensive along parts of the margin with the A142.

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Medicago arabica (Spotted Medick). Whilst the Medick makes an attractive garden plant, it is currently expanding its range into the wider countryside. It has the potential to form dense patches. It is present in the southern part of the site, but is kept under control by Rabbits.

Pentaglottis sempervirens (Green Alkanet). A garden plant that is almost impossible to eradicate due to its buried tubers. It thrives in slightly shaded locations and can create very dense patches. At the moment there are only scattered plants across the site.

5. Important Plant Areas



Important emergent and land plant areas (map source: OpenStreetMap)



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Three broad areas are important for the more notable plant species.

The lake body

The range of water depths provides habitat for species of both shallow and deep water, though the deepest waters were not accessible. It supports pondweed and stonewort species of county significance. The water appears to be of high quality and this may be a consequence of the large fish being of "English" origin according to the fishermen. These fish are slow growing and may not disturb the bottom as much as is seen in many fisheries stocked with fast growing fish.

The lake margin

The lake margins shelve rapidly in most places, though the gradient is gentler at the southern beach. This means that the effects of summer draw-down are only really seen in this beach area. Reed growth and over-shadowing scrub is swamping emergent vegetation in most of the rest of the site. The significant plants are therefore mostly seen in the beach area, though with appropriate management other areas would become suitable. Areas B, C and D are particularly important. B is the gently shelving beach, C is off an old jetty where Perfoliate Pondweed grows, D has Corn Mint.

Open sandy areas

The site is probably most important for the unusual plants that grow on the poorly vegetated and bare sandy areas in the south of the site. These are mostly spring annuals, though Dune Stork's-bill has a much longer flowering season and is the most significant plant on the site. A and F are the most important areas for spring annuals and Dune Stork's-bill. E is an area with Wild Strawberry.

6. Site Assessment

The present CWS assessment uses guidelines written in 1989, with subsequent minor modification. They are not well suited to take into account the degradation of habitats that has occurred since then and many sites that would not have been considered in 1990 may be worth consideration today. Revised criteria for site selection are under consideration.

The 2005 designation of Mepal Gravel Pits as a County Wildlife Site was based entirely on the presence of three or more species of Potamogeton. Only one of these was present in the Mepal Outdoor Centre pit at the time and it is clear that the eastern pit was the primary one in achieving the designation. Alternative botanical criteria under the existing guidelines for selection would be either Acidic Grassland or Standing Water Bodies. What constitutes a good acidic grassland site in Cambridgeshire is not well defined in the guidelines as it is a rare habitat. The open sandy areas are not grassland in the strict sense of NVC U1, which the guidelines use, however they do support a number of strong and weak indicators for the habitat, including *Festuca ovina agg* (Sheep's Fescue). Standing Water Bodies is a broad classification and the guidelines suggest that most gravel pits will fall into classification 10A, though they do not list the species that would contribute to the 15 species required for designation. The survey found over 25 vascular plant and stonewort species that are submerged, floating or emergent, and on this basis the Mepal Outdoor Centre site clearly qualifies as a CWS in its own right.

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It is unfortunately too early to assess the site using new botanical criteria for site assessment that I am developing. One technique is to use the concept of "axiophytes", species that are neither very common nor very rare and indicate good habitats. Those on the site are noted in the Appendix. Using this system both the eastern and western parts of the original CWS reach similar counts of such species. At 33 species, which includes some that are planted, the axiophyte count is relatively low compared to sites in the southern part of the county, however it needs to be taken in the context of Fenland. Fenland as a whole is a species poor region, so natural areas become much more important. Another technique would be to use a scoring system, rating rarer plants worthy of a higher score than plants that are more common. A third technique would be to consider the broad value of the habitat, rather than what it actually contains. Open sandy ground is generally rare in the county, so this is an important habitat.

There are a large number of planted and introduced ornamental species on the site. Some of these are becoming established, mainly by vegetative reproduction. Planted species are particularly noticeable along the road boundary and around the buildings of the old Outdoor Centre.

The site could undoubtedly be improved for those species of botanical interest, however this might degrade its value for birds or invertebrates. I saw little evidence that the fishing activities were having a negative influence on the botany, and to an extend some activity is positive in keeping paths and fishing runs open. One option would be to introduce licensed fishing on the west side of the lake, enhancing the swims by providing better access, with some clearance of scrub and other vegetation surrounding them. This could provide more habitat for some emergent species that are otherwise scarce on the site. Another option would be to construct a circular nature walk along the north-eastern lake shore and returning along the higher ground. Again, this will benefit less aggressive emergent vegetation along the lake. The higher ground is more nutrient rich and will require some management of the Nettles and perhaps a new bank to reduce traffic noise.

Some thought needs to be given to the control of invasive plant species, which may otherwise swamp those that are more desirable to have on site. Some of these (for example Common Teasel) can be important seed sources for birds, so a balance will need to be struck.



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7. Conclusion

Overall, the site is maturing, with the development of stands of scrub and other dense vegetation. Most of the important plant species however require a less mature, more open habitat, so for these the clock needs to be reset.

The marginal habitat around the lake, the lake itself and the open sandy areas are the most important parts of the site from the botanical perspective. The open sandy areas support seven species of county significance, whilst the lake and its margins support six. It is clearly worth retaining the CWS designation for the Mepal Outdoor Centre part of the overall Mepal Gravel Pits CWS. The part of the site set aside for wildlife will need protection from unauthorised disturbance by use of suitable fencing.

It will be important to put effective management plans into practice for the site. In particular, these will need to focus on maintaining areas of bare or lightly vegetated sandy ground and ensuring that emergent vegetation is not overwhelmed by reed growth. It will also be important to continue regular monitoring of the site to make sure that the management is having the desired effect and to change it if necessary. Ideally, the monitoring should be on a quick look basis every three or four years, with a more comprehensive survey every decade.

Looking further ahead a vision for the region could be to develop the complex of gravel pits in the area as a large site for wildlife and people by creating a mosaic of habitat. Significant areas should be kept entirely for wildlife, but others made available for recreational use to enjoy the wildlife, and for water-sports, off road cycling and other pastimes. The Mepal Outdoor Centre would be part of this larger complex.

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Appendix I

Vascular plants, charophytes and other species from Mepal Outdoor Centre

The following list includes records made during a visit by Nick Millar of the Wildlife Trust in 1996, a brief visit by myself in 2018 and visits during the present survey. Unfortunately, the Wildlife Trust survey in 2005 did not distinguish between the two halves of the existing CWS, so their records are not included. The detailed records are provided separately in digital form.

Taxon	Vernacular	First	Last	Status/Notes
		Recorded	Recorded	
Acer campestre	Field Maple	1996	2020	
Acer	Sycamore	2020	2020	
pseudoplatanus				
Achillea	Yarrow	2020	2020	
millefolium				
Aegopodium	Ground-elder	2020	2020	
podagraria				
Aesculus	Horse-chestnut	2018	2020	
hippocastanum				
Agrimonia	Agrimony	2020	2020	
eupatoria				
Agrostis	Creeping Bent	2020	2020	
stolonifera				
Alliaria	Garlic Mustard	2020	2020	
petiolata				
Alnus incana	Grey Alder	2018	2020	
Amaranthus	Green Amaranth	2020	2020	
hybridus				
Anagallis	Scarlet	2020	2020	
arvensis	Pimpernel			
Anisantha	Barren Brome	2020	2020	
sterilis				
Anthriscus	Bur Chervil	2020	2020	Declining in
caucalis				England and
				County
		1.0.0.0		Vulnerable.
Anthriscus	Cow Parsley	1996	2020	
sylvestris				
Aphanes arvensis	Parsley-piert	2020	2020	
Aquilegia	Columbine	2020	2020	Axiophyte.
vulgaris				
Arctium minus	Lesser Burdock	2020	2020	The Arctium
				subspecies form
				a broad range
Arctium minus	Togon Dundari-	2020	2020	at the site.
	Lesser Burdock	2020	2020	
subsp. minus Arctium minus	Loggor Durdect	2020	2020	
subsp. pubens	Lesser Burdock	2020	2020	
Arenaria	Slender	2018	2020	Declining in
leptoclados	Siender Sandwort	2010	2020	England.
TCPLOCIAUUS	Sanuwort			Common in
				county.
				councy.

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Arenaria	Thyme-leaved	1996	1996	Probably A.
serpyllifolia	Sandwort			leptoclados.
agg.				
Armoracia	Horse-radish	2020	2020	
rusticana				
Arrhenatherum	False Oat-Grass	2020	2020	
elatius				
Artemisia	Mugwort	2020	2020	
vulgaris				
Arum maculatum	Lords-and- Ladies	2020	2020	
Asparagus	Garden	2020	2020	Axiophyte.
officinalis	Asparagus			1 1
Atriplex	Spear-leaved	2020	2020	
prostrata	Orache			
Ballota nigra	Black Horehound	2020	2020	
Barbarea vulgaris	Winter-cress	2020	2020	
Bellis perennis	Daisy	2020	2020	
Betula pendula	Silver Birch	2020	2020	
Betula pubescens	Downy Birch	2020	2020	Axiophyte.
Borago	Borage	2020	2020	Axiophyte.
officinalis	Borage	2020	2020	Axiophyce.
Bromus hordeaceus	Soft-brome	2020	2020	
Bryonia dioica		2020	2020	
	White Bryony			
Buddleja davidii	Butterfly-bush	2020	2020	Invasive potential.
Buxus	Box	2020	2020	Planted.
sempervirens				
Calamagrostis epigejos	Wood Small-reed	2020	2020	
Calystegia sepium	Hedge Bindweed	2020	2020	
subsp. sepium		0.000		
Capsella bursa-	Shepherd's-	2020	2020	
pastoris	purse			
Cardamine hirsuta	Hairy Bitter- cress	2020	2020	
Carduus crispus	Welted Thistle	2020	2020	
Carduus	Slender Thistle	2020	2020	County scarce
tenuiflorus				but increasing.
Carex hirta	Hairy Sedge	2020	2020	
Carex otrubae	False Fox-sedge	2020	2020	
Carpinus betulus	Hornbeam	2020	2020	Planted.
Cerastium	Sea Mouse-ear	2020	2020	County rare and
diffusum				Vulnerable
Cerastium	Common Mouse-	2020	2020	
fontanum	ear			
Cerastium	Sticky Mouse-	2020	2020	
glomeratum	ear			
Cerastium	Little Mouse-	2020	2020	Axiophyte.
semidecandrum	ear	-		1 <u>1</u>
	Rough Chervil	2020	2020	
	Rougn Chervii			
Chaerophyllum	Rough Chervii	2020		
	Rough Chervii Rosebay	1996	2020	Invasive.

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Chara hispida	Bristly	2020	2020	Axiophyte.
chara hispida	Stonewort	2020	2020	County
	000110110120			Vulnerable.
Chenopodium album	Fat-hen	2020	2020	
Chenopodium	Fig-leaved	2020	2020	
ficifolium	Goosefoot			
Chenopodium	Maple-leaved	2020	2020	Axiohpyte.
hybridum	Goosefoot			Declining in
				England
Chenopodium	Many-seeded	2020	2020	
polyspermum	Goosefoot			
Chenopodium rubrum	Red Goosefoot	2020	2020	
Choisya ternata	Mexican Orange	2020	2020	Planted
Cirsium arvense	Creeping	1996	2020	Planted
CIISIUM alvense	Thistle	1990	2020	
Cirsium vulgare	Spear Thistle	2020	2020	
Clematis vitalba	Traveller's-joy	2020	2020	Invasive
				potential.
Colchicum	An Autumn	2020	2020	Planted.
varieagatum	Crocus			
Conium maculatum	Hemlock	2020	2020	Invasive.
Convolvulus	Field Bindweed	2020	2020	
arvensis				
Conyza canadensis	Canadian	2020	2020	
	Fleabane			
Conyza	Guernsey	2020	2020	
sumatrensis	Fleabane	2020	2020	
Cornus sanguinea subsp. australis	Dogwood	2020	2020	
Cornus sericea	Red-osier	2020	2020	Planted.
comus scricca	Dogwood	2020	2020	
Corylus avellana	Hazel	2020	2020	
Crataegus	Various-leaved	2018	2018	
heterophylla	Hawthorn			
Crataegus	Hawthorn	1996	2020	
monogyna				
Crepis capillaris	Smooth Hawk's-	2018	2020	
	beard			
Crepis vesicaria	Beaked Hawk's-	2020	2020	
<u></u>	beard	1000	2020	
Cyperus longus	Galingale	1996	2020	GB Near Threatened.
				Axiophyte.
				Introduced
				here.
Cytisus scoparius	Broom	2020	2020	Axiophyte.
- *				Probably
				planted
Dactylis	Cock's-foot	2020	2020	
glomerata				
Dipsacus fullonum	Wild Teasel	2020	2020	Invasive.
Dryopteris	Broad Buckler-	2020	2020	Axiophyte.
dilatata	fern	0.000		
Echium vulgare	Viper's-bugloss	2020	2020	Axiophyte.

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	- CONSI	JLTING	

		2020	2020	
Elodea nuttallii Nutta Water		2020	2020	
	n Couch	1996	1996	
Epilobium Ameri		2020	2020	-
1	wherb	2020	2020	
		2020	2020	
1		2020	2020	
	wherb			
Epilobium Hoary		2020	2020	
1	wherb			
	e-stalked	2020	2020	
	wherb			
±	Horsetail	2020	2020	
	n Stork's-	2020	2020	
cicutarium subsp. bill				
cicutarium				
	Stork's-	2020	2020	County Rare.
cicutarium subsp. bill				
dunense				
Erophila verna Commo	n	2020	2020	
	owgrass			
	agrimony	1996	2020	
cannabinum				
	purge	2020	2020	
helioscopia	parge	2020	2020	
_	Spurge	2020	2020	
lathyris	spurge	2020	2020	
	Cource	2020	2020	
	Spurge			Duri proburt o
-	's-fescue	2018	2018	Axiophyte.
agg.				
	escue	2020	2020	
agg.				
Ficaria verna Lesse		2020	2020	
subsp. verna Celan				
Filago vulgaris Commo	n Cudweed	2020	2020	GB Near
				Threatened.
				Axiophyte.
Forsythia x Forsy	thia	2020	2020	Planted.
intermedia				
Fragaria vesca Wild	Strawberry	2020	2020	England Near
				Threatened.
				Axiophyte.
Fraxinus Ash		2020	2020	Europe Near
excelsior				Threatened.
	n Fumitory	2020	2020	
officinalis				
Galanthus elwesii Great	or	2020	2020	Planted.
Salanchas ciwesii Giead Snowd		2020	2020	r fancea.
Galanthus nivalis Snowd	=	2020	2020	Planted.
Galium aparine Cleav	I	2020	2020	I LAIICEU.
-				
Galium palustre Marsh	-bedstraw	2018	2018	County
		1		vulnerable.
				Axiophyte.
	eaved	2020	2020	
	's-bill	ļ		
	s-foot	2020	2020	
Crane	's-bill			

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Geranium pusillum	Small-flowered Crane's-bill	2020	2020	
Geranium	Herb-Robert	2020	2020	
robertianum				
Geum urbanum	Wood Avens	2018	2020	
Glechoma	Ground-ivy	2020	2020	
hederacea	_			
Helminthotheca	Bristly	2020	2020	
echioides	Oxtongue			
Heracleum	Hogweed	2020	2020	
sphondylium		2020	2020	
Hesperis	Dame's-violet	2020	2020	Axiophyte.
matronalis		2020	2020	marophyce.
Holcus lanatus	Yorkshire-fog	2020	2020	
Hordeum murinum	Wall Barley	2020	2020	
	-			
Hyacinthoides	Bluebell	2020	2020	Axiophyte.
non-scripta				Planted.
Hyacinthoides x	Hybrid Bluebell	2020	2020	Planted.
massartiana	(H. non-scripta			
	x hispanica)			
Hyacinthus	Hyacinth	2020	2020	Planted.
orientalis				
Hypericum	Tutsan	2020	2020	
androsaemum				
Hypericum	Perforate St	2020	2020	
perforatum	John's-wort			
Hypericum	Square-stalked	2020	2020	Axiophyte.
tetrapterum	St John's-wort			
Hypericum x	Tall Tutsan (H.	2020	2020	Probably
inodorum	androsaemum x			planted.
	hircinum)			-
Inula conyzae	Ploughman's-	1996	2020	Axiophyte.
	spikenard			
Iris foetidissima	Stinking Iris	2020	2020	
Iris germanica	Bearded Iris	2020	2020	Planted.
Juncus	Jointed Rush	1996	2020	110000
articulatus		1990	2020	
Juncus bufonius	Toad Rush	2018	2020	Axiophyte.
Juncus effusus	Soft-rush	2010	2020	AXIOPHYCE.
Juncus inflexus	Hard Rush	2020	2020	
Laburnum				
	Laburnum	2020	2020	Planted.
anagyroides		0.000	0.000	
Lactuca serriola	Prickly Lettuce	2020	2020	
Lactuca virosa	Great Lettuce	2020	2020	
Lamium album	White Dead- nettle	2020	2020	
Lamium purpureum	Red Dead-nettle	2020	2020	
Lemna trisulca	Ivy-leaved	2020	2020	
	Duckweed			
Lepidium	Swine-cress	2020	2020	
coronopus				
Lepidium didymum	Lesser Swine-	2020	2020	
	cress			
Lepidium draba	Hoary Cress	2020	2020	Invasive.
Leucanthemum	Oxeye Daisy	2020	2020	111V 401VC •
vulgare	ovele parsy	2020	2020	
	1	1	1	

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	1			
Leucojum aestivum	Summer Snowflake	2020	2020	Planted.
Linaria vulgaris	Common Toadflax	2020	2020	
Lolium perenne	Perennial Rye- grass	2020	2020	
Lonicera	Honeysuckle	1996	2020	Axiophyte.
periclymenum	-			Planted.
Lonicera pileata	Box-leaved Honeysuckle	2020	2020	Planted.
Lonicera x	L. caprifolium	2020	2020	
italica	x etrusca	2020	2020	
Lycopus europaeus	Gypsywort	1996	2020	
Lythrum salicaria	Purple-	2020	2020	
Ly chi uni Salicalla	loosestrife	2020	2020	
Malva moschata	Musk-mallow	2020	2020	Axiophyte.
Malva neglecta	Dwarf Mallow	2020	2020	AXTOPHYCE.
Malva neglecta Malva sylvestris		2020	2020	
	Common Mallow			
Matricaria discoidea	Pineappleweed	2020	2020	
Medicago arabica	Spotted Medick	2020	2020	Invasive potential.
Medicago lupulina	Black Medick	2020	2020	
Mentha aquatica	Water Mint	2020	2020	
Mentha arvensis	Corn Mint	2020	2020	Near Threatened in England. Axiophyte.
Mercurialis annua	Annual Mercury	2020	2020	AXTOPHYCE.
		2020	2020	
Myosotis arvensis	Field Forget- me-not			
Myosotis laxa	Tufted Forget- me-not	2018	2020	Axiophyte.
Myosotis ramosissima	Early Forget- me-not	2020	2020	Axiophyte.
Narcissus agg.	Cultivated Daffodil	2020	2020	Planted.
Narcissus poeticus	Pheasant's-eye Daffodil	2020	2020	Planted.
Narcissus x	N. poeticus x	2020	2020	Planted.
medioluteus	tazetta	2020	2020	riancea.
Nitella flexilis	Smooth	2020	2020	County Rare.
sens. lat.	Stonewort	2020	2020	councy Raie.
Oenothera agg.	Evening	2020	2020	
2.2	Primrose			
Oenothera biennis	Common Evening- primrose	2020	2020	
Ophrys apifera	Bee Orchid	2020	2020	
Oxalis		2020	2020	
corniculata var. atropurpurea				
Papaver rhoeas	Common Poppy	2020	2020	
Papaver somniferum	Opium Poppy	2020	2020	
Pentaglottis sempervirens	Green Alkanet	2020	2020	Invasive potential.
Persicaria	Amphibious	2020	2020	percenterar.
amphibia	Bistort	2020	2020	

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ENERGY EFFICIENCY A HEALTRY HOMES RODORAL MINROS 2017 LINES COMMITME DOTAL 1988











Partialis arundinacea grassReed Cahary- grass20202020Phalaris canariensisCanary-grass20202020Phragmites australisCommon Reed19962020Picea ablesNorway Spruce20182020Planted.Plantago lanceolataPlantain20202020Planted.Plantago manua grassGreater grass202020202020Poa pratensis sens. lat. grassSmooth Meadow- grass20202020Planted.Polygonatum x monspeliensis grassGarden grass20202020Planted.Polygonatum x drassGarden grass20202020Planted.Polygonatum x canadensis propulus x crispusMutograss20202020Planted.Potamogeton grassCurled Fondweed poplar20202020Planted.Potamogeton perfoliatusPerfoliate poplar20202020County vulnerable.Potamogeton perfoliatusCinquefoil perfoliatus20202020County vulnerable.Potamogeton perfoniataCinquefoil perfoliatus20202020Planted.Prunus australiaCherry Plum 202020202020County vulnerable.Prunus avium mus australiaCherry Plum 20202020Planted.Potamogeton perfoliatusCherry Plum 20202020Planted.Prunus avium mus australiaCherry Plum 20202020Pla			0.000	0000	
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canariensisImage of the second se		5			
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australisnorway Spruce20182020PlantagePicea ablesNorway Spruce20182020Planted.PlantagoRibwort20202020Plantad.Pantago majorGreater202020202020Pantago majorGreater202020202020Pontago majorGreater202020202020Pontago majorGreater202020202020Pontago majorGreater202020202020Pontago majorGraden20202020Planted.Pontago majorGarden20202020Planted.Polygonatum xGarden20202020Planted.PolygonumKnotgrass20202020Nationallymonspeliensisgrass20202020NationallyPopulus xHybrid Black-20202020CountyenadensispoplarPondweed20202020CountyPotamogetonCurled Pondweed20202020CountyPotamogetonCurled Pondweed20202020England.PotentillaSilverweed20202020Planted.AnserinaCinquefoil20202020Planted.Prunus aviumWild Cherry20202020Planted.Prunus aviumWild Cherry20202020Planted.Prunus lusitanicaPortugal Laurel20202020Planted.Prunus lusitanicaPortugal L			1000		
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sens. lat.grass20202020PoartrivialisRough Meadow- grass20202020Polygonatum x hybridumGarden Solomon's-seal20202020Polygonum aviculare agg.Knotgrass20202020Polygona monspeliensisAnnual Beard- grass20202020Populus x canadensisHybrid Black- poplar20202020Potamogeton perfoliatusCurled Pondweed20202020Potamogeton perfoliatusPerfoliate Pondweed20202020Declining in England. County Vulnerable.Potentilla anserinaSilverweed20202020Declining in England. County Vulnerable.Potentilla anserinaCreeping Chriguefoil20202020Perfoliate Prunus avium Wild Cherry Prunus avium Prunus lusitanica Prunus lusitanica20202020Planted. Planted.Prunus lusitanica Prunus spinosa Blackthorn20202020Planted. CurledPrunus lusitanica Prunus lusitanica Buttercup20202020Planted.Ranunculus Ranunculus Celery-leaved Buttercup20202020Planted.Ranunculus Resed luteaCelery-leaved Router20202020Planted.Ranunculus Celery-leaved Buttercup20202020Planted.Ranunculus Celery-leaved SceleratusColery-leaved Router20202020Ranunculus Celery-leaved Sceleratus20202020Planted. <td< td=""><td>Poa pratensis</td><td>5</td><td>2020</td><td>2020</td><td></td></td<>	Poa pratensis	5	2020	2020	
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Ribes sanguineum	Flowering	2020	2020	Planted.
	Currant			
Robinia pseudoacacia	False-acacia	2020	2020	Planted.
Rosa canina	Dog-rose	2020	2020	
Rosa canina agg.	Dog-rose	2020	2020	
Rosa canina group	Dog-rose	2020	2020	
Pubescentes				
Rubus armeniacus		2020	2020	Invasive.
Rubus fruticosus agg.	Bramble	2020	2020	
Rubus ulmifolius	Elm-leaved Bramble	2020	2020	
Rumex crispus	Curled Dock	2020	2020	
Rumex obtusifolius	Broad-leaved Dock	2020	2020	
Rumex sanguineus	Wood Dock	2020	2020	
Sagina filicaulis	Upright	2020	2020	
	Pearlwort	2020	2020	
Sagina procumbens	Procumbent Pearlwort	2020	2020	
Salix alba	White Willow	1996	2020	
Salix caprea	Goat Willow	2020	2020	
Salix cinerea subsp. cinerea	Grey Willow	2020	2020	
Salix cinerea subsp. oleifolia	Rusty Willow	2018	2020	
Salix purpurea	Purple Willow	2018	2020	Axiophyte. Probably planted.
Salix viminalis	Osier	2020	2020	
Salix x fragilis	Hybrid Crack- willow (S. euxina x alba)	1996	2020	
Salix x sepulcralis	S. alba x babylonica	2020	2020	Planted.
Sambucus nigra	Elder	1996	2020	
Samolus valerandi	Brookweed	1996	2020	Axiophyte.
Scrophularia auriculata	Water Figwort	2020	2020	
Sedum acre	Biting Stonecrop	2020	2020	
Sedum album	White Stonecrop	2018	2020	
Senecio jacobaea	Common Ragwort	2020	2020	
Senecio vulgaris	Groundsel	2020	2020	
Sherardia	Field Madder	2020	2020	
arvensis		-		
Silene latifolia	White Campion	2020	2020	
Silybum marianum	Milk Thistle	2020	2020	Axiophyte.
Sinapis arvensis	Charlock	2020	2020	
Sisymbrium officinale	Hedge Mustard	2020	2020	
Solanum dulcamara	Bittersweet	2020	2020	
Solanum nigrum	Black	2020	2020	
- 6	Nightshade	-	-	

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ENERGY EFFICIENCY A HEALTRY NOMES REDORAL MOMENTS INFO: COMPANY OF THE TOTAL ARETROFIT AWARDS sape:



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Sonchus arvensis	Perennial Sow- thistle	2020	2020	
Sonchus asper	Prickly Sow- thistle	2020	2020	
Sonchus oleraceus	Smooth Sow- thistle	2020	2020	
Stellaria media	Common Chickweed	2020	2020	
Symphoricarpos albus	Snowberry	2020	2020	Planted.
Symphytum officinale	Common Comfrey	2020	2020	
Symphytum x uplandicum	Russian Comfrey (S. asperum x officinale)	2020	2020	Invasive potential.
Tanacetum parthenium	Feverfew	2020	2020	
Taraxacum agg.	Dandelion	2020	2020	
Taraxacum qlauciniforme	A Dandelion	2020	2020	County Rare.
Thlaspi arvense	Field Penny- cress	2020	2020	
Tilia x europaea	Lime	2020	2020	
Trifolium dubium	Lesser Trefoil	2020	2020	
Trifolium repens	White Clover	2020	2020	
Tripleurospermum inodorum	Scentless Mayweed	2020	2020	
Tussilago farfara	Colt's-foot	2020	2020	
Typha angustifolia	Lesser Bulrush	1996	2020	Axiophyte.
Typha latifolia	Bulrush	2020	2020	
Urtica dioica	Common Nettle	1996	2020	
Urtica urens	Small Nettle	2020	2020	
Verbascum thapsus	Great Mullein	2020	2020	
Veronica arvensis	Wall Speedwell	2020	2020	
Veronica chamaedrys	Germander Speedwell	2020	2020	
Veronica filiformis	Slender Speedwell	2020	2020	
Veronica hederifolia subsp. lucorum	Ivy-leaved Speedwell	2020	2020	
Veronica persica	Common Field- speedwell	2020	2020	
Veronica polita	Grey Field- speedwell	2020	2020	Axiophyte.
Veronica serpyllifolia	Thyme-leaved Speedwell	2020	2020	
Viburnum lantana	Wayfaring-tree	2020	2020	Planted.
Viburnum opulus	Guelder-rose	2020	2020	
Viola odorata var. dumetorum	Sweet Violet	2020	2020	
Viola odorata var. odorata	Sweet Violet	2020	2020	
Vulpia myuros	Rat's-tail Fescue	2020	2020	

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AWARDS sapa:



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X Cuprocyparis leylandii	Leyland Cypress	2020	2020	Planted
Ladybirds				
Coccinella	7-spot Ladybird	2020	2020	
septempunctata				
Liverworts				
Marchantia	Common	2020	2020	
	Liverwort	2020	2020	
polymorpha subsp. ruderalis	LIVERWORL			
Pellia	Endive Pellia	2018	2020	
endiviifolia				
Moss				
Orthotrichum	White-tipped	2020	2020	
diaphanum	Bristle-moss			
Miscellaneous				
Talpa europaea	Mole	2020	2020	
Oryctolagus	Rabbit	2020	2020	
cuniculus				
Capreolus	Roe Deer	2020	2020	
capreolus				
Aceria myriadeum	Acer Gall	2020	2020	
Rhytisma acerinum	Sycamore Tar	2020	2020	
	Spot			
Aglais urticae	Small	2020	2020	
	Tortoiseshell			
Inachis io	Peacock	2020	2020	
Tyria jacobaea	Cinnabar	2020	2020	

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Appendix II: Site Photos



The reed fringed shore of the lake

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The patch of Corn Mint on the lake bank

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Patches of Hoary Cress on the bank adjacent to the A142



Stands