

### Introduction

Dr Tony Whitbread of the Sussex Wildlife Trust was invited to do a field survey of the Thakeham Glebe Field (lies at TQ 106-174). The aim is for the Thakeham Parish Council to get a rough estimate of the ecological value and general aspects of this field. This project is the brainchild of Fiona McConnachie, local resident and Thakeham Parish Councillor. The vision is for this small (approx. 1.8 acres) parcel of tranquil green space to become a focal point within a residential area. The idea is that this land could become better valued and managed by local residents and also be used for educational purposes for future generations.

A very early initial superficial survey was organised for a Saturday morning, 30<sup>th</sup> November 2019. Present were Fiona McConnachie, local resident and Thakeham Parish Councillor, Dr Tony Whitbread, President of the Sussex Wildlife Trust and his wife and environmentalist, Viviane Doussy. This sparked off enough interest to warrant more thorough surveys in 2020.

Local Botanist, Susan Denness, was brought in as SBRS\* recorder. SBRS have a project recording Greens and Recreation Grounds requiring 3 site visits. Glebe Field was included in this and hence Susan did botanical surveys on 12 March, 06 June and 24 September 2020.



\*SBRS = Sussex Botanical Recording Society



Dr Tony Whitbread, President Sussex Wildlife Trust

Furthermore, Fiona McConnachie organised a site survey of the volunteers listed below. During covid-19 lockdown only a maximum of 6 people were allowed to participate.

- Tony Whitbread, Ecologist and President Sussex Wildlife Trust from Storrington
- Susan Denness, Sussex Botanical Recording Society surveyor from Storrington
- Viviane Doussy, environmentalist and interested party from Storrington
- Tony Burtenshaw, local resident and natural history interested party from Thakeham
- Caroline Instance, Chair of Thakeham Parish Councillor from Thakeham
- Fiona McConnachie, local resident and Thakeham Parish Councillor from Thakeham

Finally, a species-specific survey was done on 16<sup>th</sup> June 2020 by Viviane and Fiona to determine whether glow worms (luminescent beetles, *Lampyris noctiluca*) were present on this site.

### **History**

This parcel of freestanding land is owned by the Diocese of Chichester. Thakeham PC are leasing it from the church for 10 years, after which the ownership or arrangements are not yet determined. Up until recently, it was a primary school playing field and had been thus for over 40 years. In more recent times and for the last 2.5 years it has lain fallow. Only a single grass cut was done in the summer of 2018. No fertiliser or chemical products have been used on this field in the last few years. As far as is known that applies for the past 40 years too so it is expected to have the ability to support a rich and diverse insect and bird life.

On questioning a few local residents, it became evident that the land has yielded several animal species. Amongst the many visiting birds seen around this field have been buzzards and red kites flying over, tawny, barn and little owls, swifts, swallows, and finches (bull, chaff, green, gold), blackcap, chiffchaff, gold crest. Even a cuckoo has been heard from this site and nightingales about 2 fields away and. Bats have also been seen.

Larger animals seen have been roe deer and rabbits, fox and evidence of a badger and/or fox run on the northern edge. No site-specific bat, moth, butterfly or bird surveys have been performed to date other than that organised by Viviane Doussy in June 2020.

### **Lay of the Land**

It is a flat area of under 2 acres marked in red on the map below. It lies right in the centre of the village. The map below shows its location in relation to the rest of the surrounding land.





The land is on an elevated level. There are two public entrances – one going up several steps entering from the South side (left) or approaching through a fairly dense area from the North (right).



A public footpath skirts round the eastern side and is well-used by many local residents. The space is clearly appreciated by walkers and dog walkers alike. Sadly, because it is utilised it also brings its hazards and dog poo bags are often found left along the pathway.



Indeed, Caroline Instance found a dog poo bag on the day of the survey and posted on social media to raise awareness.

Cyclists have to dismount as this is not a bridleway.





Thakeham Parish Councillor

The straight-edged site is framed along its borders mostly by trees, shrubs or hedges as seen below:



Eastern boundary along right



Northern boundary along left



Western boundary along left



Southern boundary along right

*From Left to Right below:* Specific man-made features of significance is an enclosed fenced-off area, apparently the remains of a garden allotment in the North-Western corner. Along the northern perimeter there is a bench with gravel in the front. Along the western perimeter is an entrance gate where previously cars accessed the site and were parked along the edge for specific events. A wood pile was visible in the south-western corner.





### Main Survey

This took place on Saturday 6th June 2020 between 10.00 am and 12 noon. The morning was considerably colder than expected with a temperature of around 10°C. The few weeks before had been very hot and dry.

The aim of the botanical survey was to determine the variety of species of higher plants (trees, wild flowers, grasses, sedges, rushes, ferns) represented in this meadow. This was executed by simple walking about in a fairly systematic way across the whole area. The team used hand lenses and several reference textbooks to aid their personal expertise. No quadrats were used in the survey. Susan Denness had a pre-printed short-hand plants list commonly used by the SBRS. Please see an SBRS total list of plant species identified at this site compiled by Susan at the end of this report.



Susan Denness in buttercups

A general view over the area as you approached from the southern end gave a glimpse of a meadow land with a variety of tall grasses, dominated by Yorkshire-fog. This indicates unmanaged grassland with a low rate of cutting or grazing.



Caroline Instance in Yorkshire-fog



On the south side and towards the middle and western sides, the presence of buttercups points to a wetter meadow. It had been very dry in the weeks preceding the survey, yet this meadow unexpectedly retained its moisture. The detailed survey showed both the creeping and meadow buttercup as well as cuckooflower, ramsons, male and shield-ferns, soft-rush and goat willow all pointing to an inclination towards a slightly wetter habitat.

Grasses of various kinds were seen on this area:



As shown above, the meadow is a fairly typical open sunny grassy semi-improved meadow mix, presumably with a neutral pH of around 7. No sedges were found. Of the rushes, only soft rush and field woodrush were found. It is presumably sporadically grazed by deer and rabbits.

The grass species found were brome, bent, cock's foot, meadow barley, rye grass, creeping soft-grass, meadow-grasses, false oat-grass, fescues and meadow foxtail; but Yorkshire-fog was most abundant throughout the site. It was nice to find also sweet vernal-grass with its characteristic sweet odour.



Over 50 flowering plant species were identified indicating a good variety of native wildflowers. The following are some: lesser celandine, creeping cinquefoil, common fleabane, common sorrel, speedwells, lesser stitchwort, red campion, cat's-ear, mouse-ear, ground-ivy, red and white clover, selfheal, hairy tare, knapweed, yarrow and docks etc. Of the bigger plants were nettles, ragwort, white comfrey, thistles, hogweed and willowherb.

Only a few of the flowering plants are Archeophytes - a group which, although not native, have been in Britain since before 1500. These included the cut-leaved crane's-bill, Alexanders, ivy-leaved speedwell and petty spurge.

The open meadow is surrounded on its perimeter by tall trees, shrubs and hedgerows along the boundaries all around. The tree species predominantly consist of sycamore trees, hazel, holly, oak blackthorn, hawthorn and some elm trees. These offer shelter and protection for creatures living in association with these species. This also affords some privacy for the surrounding residential properties.

Plants of all kinds form the basic food source for animals and hence if there is a good variety of natural foodplants, then it attracts a good variety of invertebrate and consequently also vertebrate forms of life higher up the food chain.



A clump of ox-eye daisies around the surrounding residential houses and native foxgloves

#### **Key to the NAC status classification**

N = A native species

A = Archeophyte, a species that is not native but has been in Britain since before 1500

C = Casual, a species that appeared in the area but is not established

E = A species that is a more recent introduction into Britain but is growing and reproducing naturally

#### **Key to the DAFOR classification**

D = Dominant

A = Abundant

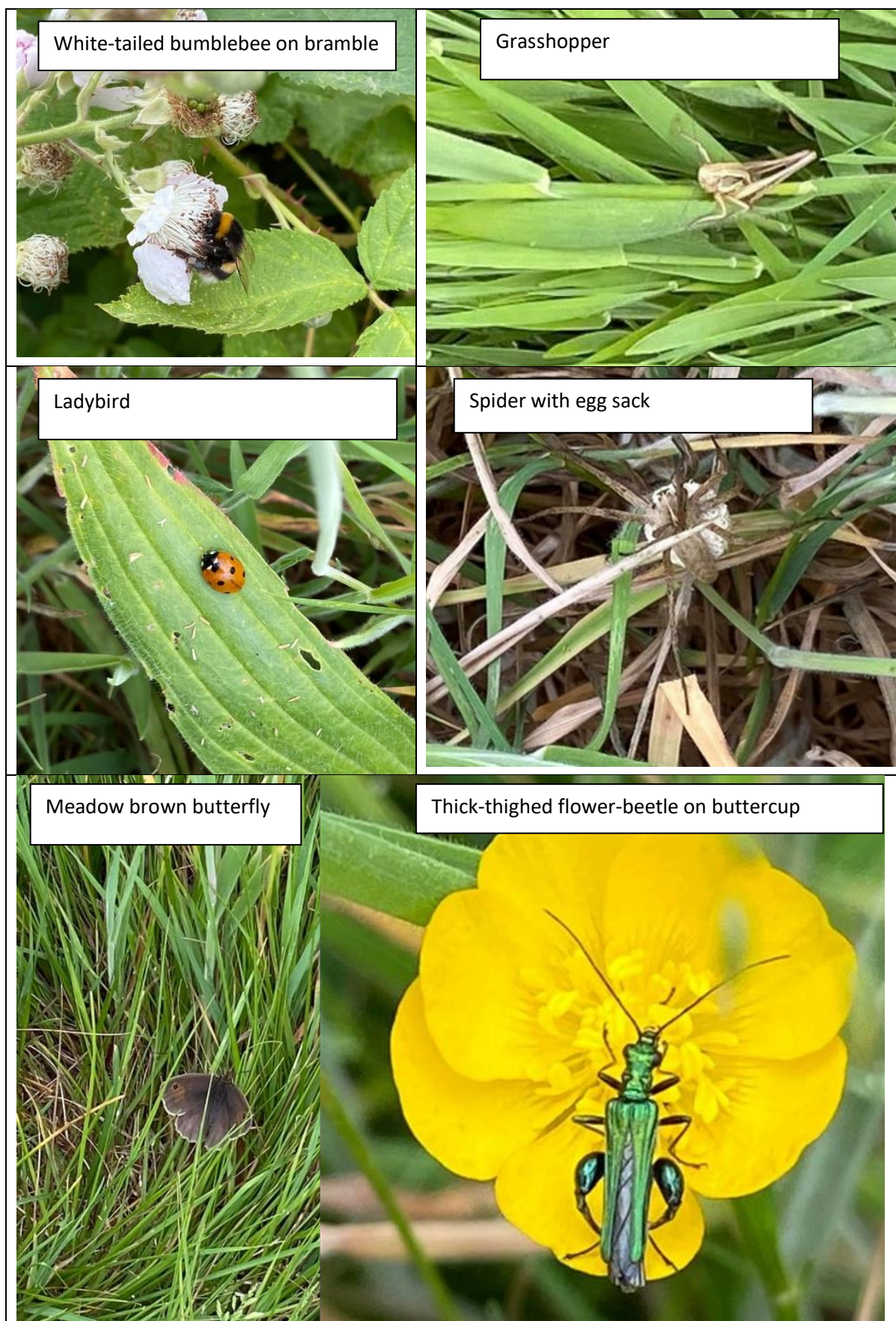
F = Frequent

O = Occasion

R = Rare



As we walked through the meadow, it became clear that there were a multitude of insect and other life forms. These included butterflies, beetles, ladybirds, spiders, etc-an abundance of small wildlife.



The list of plant species from the 3 SBRS surveys is found at the end of this document. **Attachment 1** provides the Latin names in alphabetic order of (its) genus. **Attachment 2** groups plants together into categories and provides an alphabetical list in English name order for ease of use.



A separate glow worm survey was conducted by Viviane and Fiona on a mid-summer's evening in June 2020, the height of the glow worm season. No common glow worms (*Lampyrus noctiluca*) were found on this field or in the nearby area. These are bioluminescent beetles the females of this species which glow brightly in the height of the summer months on old fields. However, a baby tawny owl was heard in the surrounding woodland to the east, so clearly shows that birds of prey are breeding around Glebe Field.



A badger and/or fox run was apparent through the hedge row (below).



### **Management recommendations**

The area is maintained by Thakeham Parish Council. From the initial Nov 2019 superficial survey when it was recommended not to mow the grass until further advised, the grass has only been mown once in the height of summer 2020. However, it was seen to be favourable to cut the hedges on the roadside, not least because this was starting to encroach into the road space. The trimming was done by a professional tree surgeon before bird nesting season in March 2020. As the bank contains several tree species like hazel, ivy, ferns etc, it is recommended that this be left to grow over to offer ground cover and stabilise the steep bank as far as possible.

The area is probably best described as a semi-improved neutral grassland meadow. By this we mean that the soils are moderately deep and clay-like, with medium levels of nutrient and are neither markedly acidic nor calcareous. "Semi-improved" indicates that the site is probably not an ancient flower-rich meadow, but neither has it been overly improved through agricultural processes, such as re-seeding or fertiliser application. The site is diverse but does not support particularly rare or sensitive plant species.



This could be considered an ideal starting point. Consequently, there are no stringent requirements for careful management to conserve any special features, so an approach to management could be fairly flexible. However, the site is also not a species-poor agricultural grassland (which can have as few as 2 or 3 species across a field). It is therefore an interesting site and it should be possible to improve its biodiversity along with enhancing it in terms of public access and enjoyment. To achieve this, we recommend the following principles:

- Avoid use of pesticides or fertilisers
- We would not recommend significant re-seeding of the area and would certainly avoid introduction of non-native or invasive species.
- Take the same basic approach as you would for a hay meadow; cut once a year in late summer. Ideally this would be followed by grazing later in the year but if this is not possible then later cuts in autumn / winter might help if grass growth is high. Cuttings should be removed after any cut to prevent enrichment.
- Vary the cutting regime so some areas are cut less often (every other year or so) and some more often, such as frequently mown areas alongside paths etc. This will add structural diversity and may support more animal species.
- Planting of trees and shrubs could add diversity, preferably in clumps (mimicking natural structures) and leaving most of the area open and grassy. Planting on the northern side of the site will retain the sunny, open aspect of the rest of the meadow.
- It may be advantageous to diversify the grassland by adding the plant “yellow rattle” (*Rhinanthus minor*). This is semi-parasitic of grass, and by reducing the vigour of grass it encourages other more sensitive plants to develop.
- It may be possible to enhance the species mix by bringing seed or recently cut hay from a nearby species-rich meadow to spread on this site. This has certain technical requirements in order to improve the chance of success. We therefore advise gaining further advice if this course of action is followed. We are happy to act in this capacity free of charge.
- It may be possible to put a pond in the meadow, assuming a natural water source could be achieved. Even a temporary pond (one that exists in winter but dries up in summer) would add diversity. Ponds do add a management requirement that can be quite significant. Vegetation quickly colonises, so a rotation of clearance will be needed to retain the pond. A pond will add interest and biodiversity to the site but comes with a high maintenance cost.





## Conclusions

This area can virtually be seen as a blank canvas to re-imagine it in many and varied ways. The field is ideally situated central to the village of Thakeham and therefore lends itself ideally to use for a quiet public green space. It is open and sunny in the middle yet surrounded by tall trees and shrubs. This means it is private and secluded where a range of quiet, peaceful recreational and educational activities could be held. As an example owl boxes can be built as a community project and then erected in the nearby trees, surveys and educational outings can be organised.

The detailed plant survey did not reveal any surprises from the initial or superficial surveys. None of the species are so unusual as to warrant special care or preservation. It is therefore an area that lends itself to a vision where for example the previous allotment area could be transformed into a wetter bog or pond area. Other areas can be re-envisioned as an orchard. These will enhance the biodiversity for dragon flies/damselflies, other insects, and amphibians. In turn this will improve the area for bats and raptors. The addition of more benches can add to the wider use and enjoyment of this tranquil area by local residents.

Crucial would be that it is left unimproved and free from chemicals/pesticides with a hay meadow type cutting regime preferably supported by grazing. This would be the best overall approach to support a wildflower meadow although there is plenty of opportunity for flexibility. Ideally it should retain its open and varied structure supporting a good array of plant and animal species.

It has been a pleasure to be part of the evolvement of this Glebe Field from its inception, as a result of Fiona McConnachie approaching us for input and advice. We regret the delay between when the surveys were completed and the concluding of this report.

After the survey in June 2020 we were rewarded by a welcome tea and cake in Fiona and Chris's beautiful garden, all appropriately socially distanced due to the UK covid lockdown rules. Tony and I had a lovely cycle back home to Storrington on our electric bikes. It was a most enjoyable and well-spent morning. Thank-you to Fiona and the Thakeham Parish Council to have made this all possible.





**Attachment 1: All plant species in alphabetic order of (its) genus in Latin names**

BRC no.	Species	Common Names	Location	Tetrad	Status	DAFOR	Recorders	Date
5	<i>Acer pseudoplatanus</i>	Sycamore	Thakeham Glebe Field	TQ11D	E	A	Denness, S.; Whitbread, A.	06Jun20
7	<i>Achillea millefolium</i>	Yarrow	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
40	<i>Agrostis capillaris</i>	Common Bent	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
39	<i>Agrostis stolonifera</i>	Creeping Bent	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
64	<i>Alliaria petiolata</i>	Garlic Mustard	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
75	<i>Allium ursinum</i>	Ramsons	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	12Mar20
82	<i>Alopecurus geniculatus</i>	Marsh Foxtail	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
85	<i>Alopecurus pratensis</i>	Meadow Foxtail	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
113	<i>Anisantha sterilis</i>	Barren Brome	Thakeham Glebe Field	TQ11D	A	R	Denness, S.; Whitbread, A.	06Jun20
121	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
125	<i>Anthriscus sylvestris</i>	Cow Parsley	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
169	<i>Arrhenatherum elatius</i>	False Oat-Grass	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
250	<i>Brachypodium sylvaticum</i>	False-brome	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
262	<i>Bromus commutatus</i>	Meadow Brome	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
331	<i>Cardamine pratensis</i>	Cuckooflower	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
444	<i>Centaurea nigra</i>	Common Knapweed	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
467	<i>Cerastium fontanum</i>	Common Mouse-ear	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
515	<i>Cirsium arvense</i>	Creeping Thistle	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
520	<i>Cirsium palustre</i>	Marsh Thistle	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
522	<i>Cirsium vulgare</i>	Spear Thistle	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
548	<i>Cornus sanguinea</i>	Dogwood	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
557	<i>Corylus avellana</i>	Hazel	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20



569	<i>Crataegus monogyna</i>	Hawthorn	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
572	<i>Crepis capillaris</i>	Smooth Hawk's-beard	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
607	<i>Dactylis glomerata</i>	Cock's-foot	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
665	<i>Dryopteris filix-mas</i>	Male-fern	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
696	<i>Epilobium obscurum</i>	Short-fruited Willowherb	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
777	<i>Euphorbia peplus</i>	Petty Spurge	Thakeham Glebe Field	TQ11D	A	R	Denness, S.; Whitbread, A.	06Jun20
824	<i>Festuca rubra</i> agg.	Red Fescue	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1649	<i>Ficaria verna</i>	Lesser Celandine	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	12Mar20
873	<i>Galium aparine</i>	Cleavers	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
907	<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	Thakeham Glebe Field	TQ11D	A	R	Denness, S.	12Mar20
2699	<i>Geranium x oxonianum</i>	Druce's Crane's-bill	Thakeham Glebe Field	TQ11D	E	R	Denness, S.	24Sep20
931	<i>Glechoma hederacea</i>	Ground-ivy	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
968	<i>Heracleum sphondylium</i>	Hogweed	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
983	<i>Holcus lanatus</i>	Yorkshire-fog	Thakeham Glebe Field	TQ11D	N	D	Denness, S.; Whitbread, A.	06Jun20
984	<i>Holcus mollis</i>	Creeping Soft-grass	Thakeham Glebe Field	TQ11D	N	A	Denness, S.; Whitbread, A.	06Jun20
993	<i>Hordeum secalinum</i>	Meadow Barley	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
687	<i>Hyacinthoides non-scripta</i>	Bluebell	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1014	<i>Hypericum perforatum</i>	Perforate St John's-wort	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1020	<i>Hypochaeris radicata</i>	Cat's-ear	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1023	<i>Ilex aquifolium</i>	Holly	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1067	<i>Juncus effusus</i>	Soft-rush	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
502	<i>Leucanthemum vulgare</i>	Oxeye Daisy	Thakeham Glebe Field	TQ11D	E	R	Denness, S.; Whitbread, A.	06Jun20
1183	<i>Lolium perenne</i>	Perennial Rye-grass	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20



1195	<i>Lunaria annua</i>	Honesty	Thakeham Glebe Field	TQ11D	C	R	Denness, S.	24Sep20
1201	<i>Luzula campestris</i>	Field Wood-rush	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1268	<i>Melissa officinalis</i>	Balm	Thakeham Glebe Field	TQ11D	E	R	Denness, S.	24Sep20
1443	<i>Pentaglottis sempervirens</i>	Green Alkanet	Thakeham Glebe Field	TQ11D	E	R	Denness, S.; Whitbread, A.	06Jun20
1487	<i>Plantago lanceolata</i>	Ribwort Plantain	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1495	<i>Poa annua</i>	Annual Meadow-grass	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1507	<i>Poa trivialis</i>	Rough Meadow-grass	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1548	<i>Polystichum setiferum</i>	Soft Shield-fern	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1594	<i>Potentilla reptans</i>	Creeping Cinquefoil	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1610	<i>Prunella vulgaris</i>	Selfheal	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1611	<i>Prunus avium</i>	Wild Cherry	Thakeham Glebe Field	TQ11D	E	O	Denness, S.; Whitbread, A.	06Jun20
1617	<i>Prunus spinosa</i>	Blackthorn	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1625	<i>Pulicaria dysenterica</i>	Common Fleabane	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
1640	<i>Quercus robur</i>	Pedunculate Oak	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1642	<i>Ranunculus acris</i>	Meadow Buttercup	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1660	<i>Ranunculus repens</i>	Creeping Buttercup	Thakeham Glebe Field	TQ11D	N	A	Denness, S.; Whitbread, A.	06Jun20
1728	<i>Rubus fruticosus agg.</i>	Bramble	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1729	<i>Rubus idaeus</i>	Raspberry	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1734.1	<i>Rumex acetosa subsp. acetosa</i>	Common Sorrel	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1742	<i>Rumex crispus</i>	Curled Dock	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1748	<i>Rumex obtusifolius</i>	Broad-leaved Dock	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1753	<i>Rumex sanguineus</i>	Wood Dock	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1788	<i>Salix caprea</i>	Goat Willow	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20



1815	<i>Sambucus nigra</i>	Elder	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
813	<i>Schedonorus arundinaceus</i>	Tall Fescue	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1129	<i>Scorzoneroide autumnalis</i>	Autumn Hawkbit	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
1899	<i>Senecio jacobaea</i>	Common Ragwort	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1259	<i>Silene dioica</i>	Red Campion	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1945	<i>Smyrniolum olusatrum</i>	Alexanders	Thakeham Glebe Field	TQ11D	A	R	Denness, S.	12Mar20
1949.1	<i>Solanum nigrum subsp. nigrum</i>	Black Nightshade	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
2005	<i>Stachys sylvatica</i>	Hedge Woundwort	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
2009	<i>Stellaria graminea</i>	Lesser Stitchwort	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
2026	<i>Symphytum orientale</i>	White Comfrey	Thakeham Glebe Field	TQ11D	E	R	Denness, S.	12Mar20
2034	<i>Taraxacum agg.</i>	Dandelion	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
2091	<i>Trifolium pratense</i>	Red Clover	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
2092	<i>Trifolium repens</i>	White Clover	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
4314	<i>Ulmus agg.</i>	Elm	Thakeham Glebe Field	TQ11D	N	A	Denness, S.; Whitbread, A.	06Jun20
2126	<i>Urtica dioica</i>	Common Nettle	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
2168	<i>Veronica chamaedrys</i>	Germander Speedwell	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
2169	<i>Veronica filiformis</i>	Slender Speedwell	Thakeham Glebe Field	TQ11D	E	R	Denness, S.; Whitbread, A.	06Jun20
2171	<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Thakeham Glebe Field	TQ11D	A	R	Denness, S.	12Mar20
2191	<i>Vicia hirsuta</i>	Hairy Tare	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20

**Attachment 2: All plant species in alphabetic order of (its) categories in English names**

BRC no.	Species	Common Names	Location	Tetrad	Status	DAFOR	Recorders	Date
	<b>TREES</b>							
1617	<i>Prunus spinosa</i>	Blackthorn	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1611	<i>Prunus avium</i>	Cherry (Wild)	Thakeham Glebe Field	TQ11D	E	O	Denness, S.; Whitbread, A.	06Jun20
548	<i>Cornus sanguinea</i>	Dogwood	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1815	<i>Sambucus nigra</i>	Elder	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
4314	<i>Ulmus agg.</i>	Elm	Thakeham Glebe Field	TQ11D	N	A	Denness, S.; Whitbread, A.	06Jun20
569	<i>Crataegus monogyna</i>	Hawthorn	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
557	<i>Corylus avellana</i>	Hazel	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1023	<i>Ilex aquifolium</i>	Holly	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1640	<i>Quercus robur</i>	Oak (Pedunculate)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
5	<i>Acer pseudoplatanus</i>	Sycamore	Thakeham Glebe Field	TQ11D	E	A	Denness, S.; Whitbread, A.	06Jun20
1788	<i>Salix caprea</i>	Willow (Goat)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
	<b>SEDGES/RUSHES</b>							
1067	<i>Juncus effusus</i>	Soft-rush	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1201	<i>Luzula campestris</i>	Wood-rush (Field)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
	<b>FERNS</b>							
665	<i>Dryopteris filix-mas</i>	Male-fern	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1548	<i>Polystichum setiferum</i>	Shield-fern (Soft)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20



	GRASSES							
993	<i>Hordeum secalinum</i>	Barley (Meadow)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
40	<i>Agrostis capillaris</i>	Bent (Common)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
39	<i>Agrostis stolonifera</i>	Bent (Creeping)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
250	<i>Brachypodium sylvaticum</i>	Brome (False)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
262	<i>Bromus commutatus</i>	Brome (Meadow)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
607	<i>Dactylis glomerata</i>	Cock's-foot	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
824	<i>Festuca rubra agg.</i>	Fescue (Red)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
813	<i>Schedonorus arundinaceus</i>	Fescue (Tall)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
82	<i>Alopecurus geniculatus</i>	Foxtail (Marsh)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
85	<i>Alopecurus pratensis</i>	Foxtail (Meadow)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1495	<i>Poa annua</i>	Meadow-grass (Annual)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1507	<i>Poa trivialis</i>	Meadow-grass (Rough)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
169	<i>Arrhenatherum elatius</i>	Oat-Grass (False)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1183	<i>Lolium perenne</i>	Rye-grass (Perennial)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
984	<i>Holcus mollis</i>	Soft-grass (Creeping)	Thakeham Glebe Field	TQ11D	N	A	Denness, S.; Whitbread, A.	06Jun20
121	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
983	<i>Holcus lanatus</i>	Yorkshire-fog	Thakeham Glebe Field	TQ11D	N	D	Denness, S.; Whitbread, A.	06Jun20

	FLOWERING PLANTS							
1945	<i>Smyrnum olusatrum</i>	Alexanders	Thakeham Glebe Field	TQ11D	A	R	Denness, S.	12Mar20
1443	<i>Pentaglottis sempervirens</i>	Alkanet (Green)	Thakeham Glebe Field	TQ11D	E	R	Denness, S.; Whitbread, A.	06Jun20
1268	<i>Melissa officinalis</i>	Balm	Thakeham Glebe Field	TQ11D	E	R	Denness, S.	24Sep20
687	<i>Hyacinthoides non-scripta</i>	Bluebell	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1728	<i>Rubus fruticosus agg.</i>	Bramble	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1642	<i>Ranunculus acris</i>	Buttercup (Meadow)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1660	<i>Ranunculus repens</i>	Buttercup (Creeping)	Thakeham Glebe Field	TQ11D	N	A	Denness, S.; Whitbread, A.	06Jun20
1020	<i>Hypochaeris radicata</i>	Cat's-ear	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1649	<i>Ficaria verna</i>	Celandine (Lesser)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	12Mar20
1594	<i>Potentilla reptans</i>	Cinquefoil (Creeping)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
873	<i>Galium aparine</i>	Cleavers	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
125	<i>Anthriscus sylvestris</i>	Cow Parsley	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
331	<i>Cardamine pratensis</i>	Cuckooflower	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
2026	<i>Symphytum orientale</i>	Comfrey (White)	Thakeham Glebe Field	TQ11D	E	R	Denness, S.	12Mar20
2091	<i>Trifolium pratense</i>	Clover (Red)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
2092	<i>Trifolium repens</i>	Clover (White)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
907	<i>Geranium dissectum</i>	Crane's-bill (Cut-leaved)	Thakeham Glebe Field	TQ11D	A	R	Denness, S.	12Mar20
2699	<i>Geranium x oxonianum</i>	Crane's-bill (Druce's)	Thakeham Glebe Field	TQ11D	E	R	Denness, S.	24Sep20
502	<i>Leucanthemum vulgare</i>	Daisy (Oxeye)	Thakeham Glebe Field	TQ11D	E	R	Denness, S.; Whitbread, A.	06Jun20
1748	<i>Rumex obtusifolius</i>	Dock (Broad-leaved)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20



1742	<i>Rumex crispus</i>	Dock (Curled)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1753	<i>Rumex sanguineus</i>	Dock (Wood)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1625	<i>Pulicaria dysenterica</i>	Fleabane (Common)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
64	<i>Alliaria petiolata</i>	Garlic Mustard	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
2034	<i>Taraxacum agg.</i>	Dandelion	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
931	<i>Glechoma hederacea</i>	Ground-ivy	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1129	<i>Scorzonoides autumnalis</i>	Hawkbit (Autumn)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
572	<i>Crepis capillaris</i>	Hawk's-beard (Smooth)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
968	<i>Heracleum sphondylium</i>	Hogweed	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1195	<i>Lunaria annua</i>	Honesty	Thakeham Glebe Field	TQ11D	C	R	Denness, S.	24Sep20
444	<i>Centaurea nigra</i>	Knapweed (Common)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
467	<i>Cerastium fontanum</i>	Mouse-ear (Common)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
2126	<i>Urtica dioica</i>	Nettle (Common)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1949.1	<i>Solanum nigrum subsp. nigrum</i>	Black Nightshade	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	24Sep20
1487	<i>Plantago lanceolata</i>	Plantain (Ribwort)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
1899	<i>Senecio jacobaea</i>	Ragwort (Common)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
75	<i>Allium ursinum</i>	Ramsons	Thakeham Glebe Field	TQ11D	N	O	Denness, S.	12Mar20
1729	<i>Rubus idaeus</i>	Raspberry	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
1259	<i>Silene dioica</i>	Red Campion	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1610	<i>Prunella vulgaris</i>	Selfheal	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
1734.1	<i>Rumex acetosa subsp. acetosa</i>	Sorrel (Common)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
2168	<i>Veronica chamaedrys</i>	Speedwell (Germander)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20

2171	<i>Veronica hederifolia</i>	Speedwell (Ivy-leaved)	Thakeham Glebe Field	TQ11D	A	R	Denness, S.	12Mar20
2169	<i>Veronica filiformis</i>	Speedwell (Slender)	Thakeham Glebe Field	TQ11D	E	R	Denness, S.; Whitbread, A.	06Jun20
777	<i>Euphorbia peplus</i>	Spurge (Petty)	Thakeham Glebe Field	TQ11D	A	R	Denness, S.; Whitbread, A.	06Jun20
1014	<i>Hypericum perforatum</i>	St John's-wort (Perforate)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
2009	<i>Stellaria graminea</i>	Stitchwort (Lesser)	Thakeham Glebe Field	TQ11D	N	F	Denness, S.; Whitbread, A.	06Jun20
2191	<i>Vicia hirsuta</i>	Tare (Hairy)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
515	<i>Cirsium arvense</i>	Thistle (Creeping)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
520	<i>Cirsium palustre</i>	Thistle (Marsh)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
522	<i>Cirsium vulgare</i>	Thistle (Spear)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
696	<i>Epilobium obscurum</i>	Willowherb (Short-fruited)	Thakeham Glebe Field	TQ11D	N	R	Denness, S.; Whitbread, A.	06Jun20
2005	<i>Stachys sylvatica</i>	Woundwort (Hedge)	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20
7	<i>Achillea millefolium</i>	Yarrow	Thakeham Glebe Field	TQ11D	N	O	Denness, S.; Whitbread, A.	06Jun20