

# Thames Valley

Environmental Records Centre



*Sharing environmental information in Berkshire and Oxfordshire*

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## STRATTON AUDLEY QUARRY

### 62C01

SURVEY REPORT 2018



## ABOUT TVERC

Thames Valley Environmental Records Centre (TVERC) is a 'not for profit' organisation covering Berkshire and Oxfordshire. We are run by a partnership and are one of a national network of local records centres. We are a member of the Association of Local Records Centres (ALERC) and the National Biodiversity Network (NBN). Our funding partners include all the local authorities in Oxfordshire & Berkshire plus the Environment Agency. We also work closely with the Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust (BBOWT). We provide our funding partners with annually updated species and sites information, and undertake surveys of Local Wildlife Sites (LWS). We also carry out data analysis for the monitoring of local authority Local Plans. We provide information to parish councils, local people, conservation bodies, land-owners, students and commercial organisations such as ecological consultants and utilities companies via data searches, data licensing and data exchanges.



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## 1. BACKGROUND

Stratton Audley Quarry Local Wildlife Site (LWS) is an abandoned and partly restored sand quarry. It has not been worked for a number of years and has developed considerable biodiversity interest.

Oxfordshire County Council commissioned TVERC to carry out a habitat survey of Stratton Audley Quarry LWS to identify the key features of value to wildlife that should be retained in future management options. This survey excludes the pond at the northeast corner of the LWS that is under separate ownership.

## 2. SURVEY METHOD

Site visits were carried out on 24<sup>th</sup> May 2018 and 20<sup>th</sup> July 2018 to complete a survey based on Phase 1 methodology (JNCC, 2010). This involved walking over accessible areas of the site to map the vegetation types present. More detailed recording of plant species was carried out where potential priority habitats (Section 41 Habitat of Principal Importance) were found. Target notes were made to describe the types of vegetation present and botanical species lists recorded for each of the main habitat types found. An estimate of abundance of each species is provided using the DAFOR scale. The DAFOR scale ranks species according to their relative abundance within a particular area of vegetation and bare no relevance to the status of the species in the wider landscape. The following abbreviations are used; D – dominant, A – abundant, F – frequent, O – occasional, R – rare. The abbreviation L is also used to indicate species that are local in their distribution.

Faunal species were recorded where observed but detailed faunal surveys are not included in this project (e.g. invertebrates, reptiles or birds). A general assessment of the sites potential value for particular species groups, based on the habitat present, is included. Additional surveys for some species groups would be beneficial to inform future management plans.

## 3. SURVEY DATA

Species records have been entered on to the TVERC Recorder 6 database and will be made available in data searches and in the next update of TVERC data layers to partner organisations.

Habitat data has been mapped using MapInfo GIS and has been provided as a GIS layer (available in both MapInfo TAB file and ArcGIS ESRI formats). TVERC has access to 2009 aerial photos and reference was also made to other online sources. However, the mapping of the scrub/grassland mosaic should only be used as an approximation and more recent aerial photography would be allow more accurate mapping of these areas.

## 4. SITE SUMMARY

**SITE NAME:** Stratton Audley Quarry  
**SITE CODE:** 62C01  
**CENTRAL GRID REFERENCE:** SP 5986 2504

**DATE SITE SURVEYED:** 24th May and 20th July 2018  
**SURVEYOR(S):** Julie Kerans, Judy Webb, Yolanda Vazquez

**DISTRICT / UNITARY:** Cherwell  
**PARISH / WARD:** Stratton Audley

**ASSESSMENT OF SURVEY** (inc time taken, weather conditions and any limitations)

7 hours on 24<sup>th</sup> May and 6 hours on 20<sup>th</sup> July 2018

Hot and sunny conditions

A small open area at the southern end of the site was not accessed. Dense areas of scrub were surveyed from the edges only. Additional survey effort is likely to record additional species interest but the survey should be sufficient to assess the main habitat types present.

**SITE STATUS** (At time of survey):

| LWS | pLWS | pLWS EX | LNR | NNR | SSSI        | pSSSI        | BBOWT res. |
|-----|------|---------|-----|-----|-------------|--------------|------------|
| BOA | AONB | RIGS    | SPA | SAC | Common Land | Private Land | Other      |

If 'other', include details here: Geological SSSI

**LANDSCAPE CONTEXT:**

Stratton Audley Quarry is a former limestone quarry to the north of Bicester. It is adjacent to Bicester Airfield LWS that includes areas of lowland calcareous grassland. The site is not in a Conservation Target Area. There are two proposed Cherwell District Wildlife Sites within 2km - Skimmingdish Lane Balancing Pond and Poodle Gorse.

**SITE AREA** (Ha): 37.1  
**MAJOR ASPECT:** Flat ground with earth & rubble mounds  
**MAJOR SLOPE:** None  
**ALTITUDE** (m): 75-85

**GEOLOGY** (solid / drift from Geology maps)

Bedrock: SANDSTONE, LIMESTONE AND ARGILLACEOUS ROCKS

Superficial: N/A

**NOTES ON SOILS AND/OR SITE DRAINAGE**

Variable with free draining and waterlogged areas

**SPECIAL INTEREST OF SITE:**

Habitats: Open mosaic habitat on previously developed land, Ponds, Unimproved calcareous grassland



Species: Great crested newt, birds, stoneworts (*Chara* species), grey clubrush, narrow-leaved bird's-foot-trefoil, southern marsh orchid and invertebrates (including Hymenoptera, Coleoptera, Lepidoptera and Odonta)

## 5. SITE DESCRIPTION

| HABITATS ON SITE<br>(Phase 1 and/or S41 habitat of principal importance)              | ADJACENT LAND USE / HABITAT                            | BOUNDARY FEATURES |
|---|--|-------------------|
| Open mosaic habitat on previously developed land (S41)                                | Open mosaic habitat on previously developed land (S41) | Hedge             |
| Unimproved calcareous grassland (with elements of Lowland Calcareous Grassland (S41)) | Lowland Calcareous Grassland (S41)                     | Road              |
| Semi-improved neutral grassland   | Improved grassland                                     | Fence             |
| Ponds (S41)   | Arable   | Ditch             |
| Ephemeral/short perennial   | Scrub  | Earth bank        |
| Swamp & Marsh (including areas of Lowland fen (S41))                                  |  |                   |
| Lowland mixed deciduous woodland (S41)  |  |                   |
| Scrub   |  |                   |
| Bare ground   |  |                   |

### A. BRIEF OVERVIEW

Stratton Audley Quarry is a former limestone quarry. Since the cessation of quarrying a range of habitats of value for wildlife have developed, including the habitat of principal importance 'open mosaic habitats of previously developed land'. The site also includes a geological SSSI.

Both the southern and northern parts of the site include botanically diverse areas with a mosaic of habitats including bare ground, ephemeral communities, scrub, developing calcareous grassland, marshy areas and ponds. A good range of plant species have been recorded here including southern marsh orchid, bee orchid, common centaury, greater knapweed, eyebright, blue fleabane and fairy flax. Central areas are generally less botanically diverse with rougher neutral grassland and scrub. The site has some topographical diversity with a several large spoil mounds, a steep slope adjacent to the southern pond and a bund to the north along the eastern side of the site.

The early successional vegetation includes locally abundant narrow-leaved bird's foot-trefoil and the emergent vegetation around the pond margins includes grey club-rush. Both these species are listed on the Oxfordshire Rare Plants Register. The ponds also include locally abundant stonewort and there are previous records for the Oxfordshire scarce species - Bristly Stonewort and Fragile Stonewort.

The site has previous records for a range of birds (including little ringed plover, snipe and skylark), great crested newt and many invertebrates (including nationally notable species of bees and beetles). The Red



List species - White-footed Furrow Bee and Southern Bronze Furrow Bee have also been recorded here. The site provides habitat for butterflies with Dingy and Grizzled Skipper recorded in 2018. The site has good potential value for a range of other invertebrates such as soldierflies, dragonflies and damselflies.

## B. DETAILED DESCRIPTION

### HABITATS

#### Open mosaic habitat on previously developed land (S41 Habitat of Principal Importance)

The site includes good examples of this habitat type and has high numbers of the species typically associated with it. A list of these species is provided in Appendix 3 - Table 2. This habitat is found on post-industrial areas and comprises a mosaic of other habitat types including ephemeral/short perennial vegetation, various grassland communities, scrub, bare ground and wetland areas including swamp, marsh and ponds. There is small scale mosaic with blocks of individual habitat types being small (less than 0.25ha). Areas to the north and some southern parts of the site fall within this habitat type but the larger blocks of scrub and rough grassland found centrally would not be covered due to the lack of small scale variation. It includes annual and other small, low growing plants that cannot survive in denser grassland or taller swards.

#### Ephemeral/short perennial

This is early successional vegetation found on degrading hardstanding, trackways and bare ground with stony substrate and thin soil. The vegetation is variable and patchy but species-rich with locally abundant bryophytes, perforate St. John's-wort and narrow-leaved bird's-foot-trefoil. Broadleaved herbs dominate but there are also grasses including creeping bent, red fescue, annual meadow-grass, Yorkshire fog, false oat-grass and fern grass. There is a diverse range of broadleaved species including common whitlow grass, annual pearlwort, parsley piert, field forget-me-not, common mouse-ear, thyme-leaved sandwort, selfheal, lesser trefoil, daisy, biting stonecrop, yarrow, common sorrel, ploughman's spikenard, ribwort plantain, creeping cinquefoil, ground ivy, meadow vetchling, colt's-foot and black medick. Patches of taller vegetation includes oxeye daisy, teasel, agrimony, wild parsnip and curled dock. Locally, this grades into patches of calcareous grassland which include sheep's fescue, mouse-ear hawkweed, common centaury and wild marjoram.

#### Unimproved calcareous grassland

This includes the 'Limestone Heath' (at Target note 26) which has an open sward of sheep's fescue with areas of quaking grass and abundant bare ground. There is also mouse-ear hawkweed, parsley piert, daisy, lesser hawkbit, autumn hawkbit, oxeye daisy, fairy flax, narrow leaved bird's-foot-trefoil, red bartsia, selfheal and creeping cinquefoil. It also includes scattered scrub.



Other areas (such as those found at Target note 15) have a much rougher sward and calcareous grassland species including greater knapweed, field scabious, ploughman's spikenard and upright brome. The sward is locally dominated by false oat-grass with yellow oat-grass, cock's-foot and rough meadow-grass. Other broadleaved herbs include yarrow, wild parsnip, perforate St. John's-wort, red bartsia, oxeye daisy, lady's mantle and agrimony. Scrub is encroaching the grassland with patches of bramble and hawthorn.

These areas of grassland have elements of the communities included as Lowland calcareous grassland (S41 Habitat of Principal Importance) but they do not currently form good examples. A list of the species recorded here that are considered typical/indicators for lowland calcareous grassland is provided in Appendix 3 – Table 1.

### Scrub

Scrub is abundant across most of the site with dense stands dominated by hawthorn, bramble and blackthorn. Scattered scrub occurs over much of the grassland and ephemeral vegetation with abundant hawthorn and locally abundant willow species, blackthorn, bramble and rose species. There is also elm species, hazel, elder and a small amount of gorse and buddleia. Trees include sycamore, Italian alder, Laburnham, aspen, ash, wild cherry and poplar species.

Scrub on wetter ground is dominated by willow species (including grey willow, goat willow, crack willow and osier). There is an area of stunted willows to the north of the southern pond with smaller stands centrally and to the western side of the site. The field layer is variable with some sections having seasonal standing water (bare ground at time of surveys) and other areas having locally abundant lesser pond-sedge, hard rush and water mint with smaller amounts of flag iris, great willowherb, reed canary-grass, water forget-me-not and brooklime.

### Hedgerows (S41 Habitat of Principal Importance)

The site boundaries have hedgerows. These are generally species-poor and dominated by hawthorn and elm species (including wych elm, English elm and small-leaved elm) with bramble, elder and blackthorn. There are smaller amounts of apple, wild privet and field maple. At the base of the hedges, the field layer includes ivy, germander speedwell, nettle, rough meadow-grass, hedge woundwort, ground ivy, lord's-and-ladies, cow parsley, herb Robert and wood avens.

To the south, north east and north west some sections of the boundary have wider strips of scrub with bramble, goat willow, grey willow, blackthorn, dog rose, hawthorn, elder, wild cherry and a small amount of buddleia.





Broadleaved semi-natural woodland (Lowland mixed deciduous woodland) (S41 Habitat of Principal Importance)

To the south on the western side of the site, there is a strip of broadleaved woodland (Target note 21). Ash is locally dominated with grey poplar to the south. Shrubs include goat willow, hawthorn, blackthorn, grey willow and elder. The woodland is secondary with a limited range of field layer species recorded. These include nettle, bramble, ivy, wood avens, ground ivy and cleavers. It forms a poor example for priority habitat - Lowland mixed deciduous woodland.

Semi-improved neutral grassland

This grassland has a rough sward with scattered scrub that grades into denser stands of scrub in places. It includes large areas dominated by false oat-grass with locally abundant bent species (*Agrostis*), red fescue, rough meadow-grass and Yorkshire fog. There is frequent cock's-foot and occasional sweet vernal-grass, pendulous sedge, glaucous sedge, soft brome, quaking grass, meadow foxtail and common couch. Wetter areas include locally abundant hard rush and hairy sedge with some tufted hair-grass, common reed, field horsetail and reed canary-grass. Broadleaved herbs include ground ivy, oxeye daisy, ribbed melilot, cow parsley, hogweed, creeping thistle, teasel, perforate St. John's-wort, creeping cinquefoil, black medick, bulbous buttercup, creeping buttercup, germander speedwell and common vetch. There is occasional yarrow, agrimony, rosebay willowherb and wild carrot. Scrub includes hawthorn, elder, bramble and rose species with smaller amounts willow, ash, blackthorn and dewberry.

The grassland at Target note 8 has a rough sward with areas of tall herb and encroaching bramble scrub. It also includes abundant creeping cinquefoil, ribwort plantain and ground ivy with some areas of upright brome. Tall herbs include hemlock, cow parsley, spear thistle, goat's-rue, wild parsnip and creeping thistle.

Lowland fen (S41 Habitat of Principal Importance)

There are a range of wetland vegetation types present on the site with wetter areas of grassland grading into small areas of reed swamp and lesser pond-sedge swamp. There are also small areas of early stage species-rich fen with a range of rush species (including hard rush, jointed rush and sharp-flowered rush), bryophytes, lesser spearwort, watermint, pondweed species (*Potamogeton*), stonewort (*Chara* species), hairy sedge, glaucous sedge, pendulous sedge, false fox sedge, water forget-me-not, wood small-reed, flag iris and gipsywort. The wetland areas around Target notes 15, 16, 19 and 22 include locally frequent southern marsh orchid.

The wetland to the north of the southern pond includes areas of fen in an early-stage of development (proto-fen). This is similar to habitat found at Dry Sandford Pit SSSI and is likely to be very important for invertebrates including soldierflies (pers. comm. Judy Webb – invertebrate expert)

Appendix 3 – Table 3. Lists typical species for lowland fen communities recorded during the 2018 surveys.



### Ponds and waterbody in the remains of an old wheel wash

There are two large ponds over 1ha in size (1 of which is fished), two ponds (less than 1ha but over 0.1ha) and several small seasonal pools. There is also a small waterbody in the remains of an old wheel wash to the north.

The ponds appear to be relatively low in nutrients and the two largest (at Target note 12 and 18) were tested for nitrate and found to have none/low levels. Nitrate and phosphate tests would be needed for all ponds to confirm their nutrient status. The ponds on the site are likely to be habitat of principal importance but freshwater invertebrates and amphibian survey data would be needed to assess if all ponds qualify.

The marginal vegetation at the pond edges includes great willowherb, common marsh bedstraw, common spike-rush, water mint, soft rush, hard rush, jointed rush, common fleabane, water figwort and gipsywort. There are also a small amount of marsh thistle, creeping-Jenny, greater pond-sedge and lesser pond-sedge. A small amount of galingale was found at the edge of a small seasonal pond to the north of Target note 26. There is also a small patch of the non-native invasive species - New Zealand Pigmyweed in the margins of the pond at Target note 25. Emergent vegetation includes bulrush, common reed, grey club-rush and common club-rush. There is also some brooklime, water plantain and flag iris. Aquatic plants include locally abundant stonewort species (*Chara* species) with small amounts of water-crowfoot species (*Ranunculus*) and pondweed species (*Potamogeton*). There is also Nuttall's waterweed, curly waterweed and common duckweed. The pond at Target note 12 also includes areas with abundant mare's-tail. The pond at Target note 18 has white waterlily and ornamental pink-flowered waterlily species.

Scrub around the ponds edges includes areas dominated by bramble and grey willow with some ash, elder, rose species, hawthorn, osier, goat willow, crack willow, sycamore, English elm and blackthorn

### Other site features of value for wildlife - Rubble and earth mounds

The northern parts of the site include several rubble mounds vegetated with a mixture of scrub, semi-improved neutral (rough) grassland and tall herb. They add some topographical diversity and include some steep sections of bank with bare rubble and soil. The grassland has a rough sward and is locally dominated by false oat-grass with tall ruderal species including nettle, teasel, common ragwort, rosebay willowherb, red campion and mugwort. Scrub includes buddleia, goat willow, bramble, white poplar, hawthorn and aspen.

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## SPECIES

### RARE & NOTABLE PLANTS

#### Nationally Rare and Scarce species

Galingale is a Nationally Scarce species (as well as a red list – near threatened species). It was recorded during the 2018 survey. A small amount was found in a seasonal pond to the north of Target note 26.

There is a previous record for Jacob's-Ladder (from 2009) which is a Nationally Rare species.

#### England Red List Species - Vulnerable

Lesser spearwort was recorded during the 2018 surveys in wetland areas of the site (especially around Target notes 15 and 19).

#### England Red List Species - Near Threatened

Quaking-grass, eyebright, field scabious and galingale were recorded during the 2018 surveys. Quaking grass was found in the unimproved calcareous grassland and was locally abundant on the south-east side of Target note 26. There was a small amount of eyebright in the early successional vegetation (including at Target note 17). Small amounts of field scabious were found in the calcareous grassland at Target note 15 and in the semi-improved neutral grassland in central parts of the site (Target note 11).

There are also previous records for Hairy Rock-cress (2009), Corn Mint (2008) and Marsh Ragwort (1987).

#### Oxfordshire Rare species

Grey club-rush was found in the emergent and marginal vegetation around the ponds during the 2018 survey. It is locally frequent in the margins of the pond at Target note 12.

There is a previous record for Bulbous rush (2008).

#### Oxfordshire Scarce species

A large population Narrow-leaved bird's-foot-trefoil was found during the 2018 survey in the early successional vegetation. It is present in the open mosaic habitat around Target notes 4, 14 and 28.

The aquatic flora of the ponds includes locally abundant Stonewort (Chara species). There are previous records from the site for two Oxfordshire scarce species - Bristly Stonewort and Fragile Stonewort. Additional survey is required to confirm if these species are still present.

There is a previous record for Trailing Tormentil (2009) and Hairy Rock-cress (2009).



## FAUNA

### Amphibians and reptiles

The habitat on the site provides optimal conditions for reptile species including grass snake, slow worm and common lizard. Rough grassland and scrub provide cover, open areas provide potential basking sites and rubble mounds offer potential hibernacula. The presence of waterbodies and marginal vegetation increases the suitability of the site for grass snakes.

One of the ponds (at Target Note 18) is stocked with fish which reduces its suitability for amphibians. However, the site includes several other ponds with aquatic and emergent vegetation including some that are seasonally dry. The site has good potential for breeding amphibians including great crested newts which have previously been recorded here. Scrub, woodland, rough grassland and rubble mounds provide suitable terrestrial habitat.

### Birds

The habitat on the site has potential value for birds (breeding and overwintering). There are berry-producing shrubs in the scrub and woodland and rough grassland areas with value for feeding. The site has habitat likely to support abundant invertebrates providing a food source for other species including birds. Areas of scrub, hedgerows and woodland have potential value for breeding birds. Grassland and other areas of open habitat provide nesting opportunity for species of ground nesting birds. Waterbodies provide potential habitat for wildfowl. Previous records indicate use by a range of Red and Amber Birds of Conservation Concern as can be seen in Table 10 in Appendix 5.

### Mammals

#### **Bats**

The rough grassland with ponds, scrub, hedgerows and woodland provide good potential for feeding and commuting (hedgerows and scrub/woodland margins). There is low potential for roosting over most of the site due to limited number of mature trees or suitable structures. However, there are some semi-mature trees including in the woodland to the south (Target note 21) and one pipe/tunnel was found at Target note 30 which has some small crevices with low potential for roosting.

Bats recorded within 1km of the site include – Common Pipistrelle, Soprano Pipistrelle, Nathusius's Pipistrelle, Natterer's Bat, Brown Long-eared Bat and Noctule.

#### **Badgers**

There are previous records for badger on the site and the habitats recorded have good potential for this species including woodland, scrub and hedgerows. Wider areas of rough grassland have some value for foraging but are sub-optimal.



### **Brown Hare**

There are previous records for brown hare and the site offers potential habitat for this species.

### **Otters**

The habitat on the site has potential value (low) with ponds and sections of wet ditch. At least one of the ponds contains fish but is subject to disturbance through use for recreational fishing. There are no records for this species within 1km of the site.

### **Dormice**

The habitat on the site has some potential value (low) including species-poor hedgerows, scrub and woodland. There are no records for this species within 1km of the site.

### Invertebrates

The site provides important habitat for invertebrates with a diverse range of microhabitats. These include sheltered pockets of grassland and early successional short-sward vegetation, species-rich vegetation with locally abundant nectar-producing plants, tussocky grassland, willow scrub on waterlogged ground with some deadwood, areas of bare limestone and bare soil, shallow seasonal pools and larger, low nutrient waterbodies with a range of aquatic, emergent and marginal vegetation.

The site has previous records for many invertebrates (including nationally notable species of bees and beetles). The Red List species - White-footed Furrow Bee and Southern Bronze Furrow Bee have also been recorded here.

Dingy skipper, grizzled skipper and small heath were recorded in 2018. There are previous records for small blue.

TVERC do not hold records for dragonflies and damselflies on the site the habitat identified on the site also has good potential value for this species group.

## **6. RECOMMENDATIONS**

### **GENERAL**

The site includes the habitats of principal importance – open mosaic habitat on previously developed land, ponds and lowland fen. It also includes areas of unimproved calcareous grassland that has elements of



Lowland Calcareous grassland. These habitats are a priority for conservation and should be retained through sensitive management. The areas of lowland fen vary in their botanical species-richness with the vegetation around Target notes 15, 19 and 22 being the richest and support a good population of southern marsh-orchids. The diversity of habitat on the site should be retained including scattered and denser scrub and variation from dry to waterlogged ground.

The site has records for a range of rare, scarce and declining species. It is desirable to maintain populations of these species on the site and where the habitat requirements of these species are known, they should be incorporated into management plans.

Based on the information collected during the 2018 surveys, the site is of county importance for its habitat and species interest. The site is potentially an important site for invertebrates and likely to have interest for a number of different species groups but additional surveys are required to assess this.

The site provides valuable habitat for invertebrates and additional surveys are recommended including freshwater invertebrates and soldierflies (pers. comm. Judy Webb – invertebrate expert).

The site is likely to support a range of legally protected species with existing records for breeding birds, grass snake, great crested newt, badger and bat species. When the details of proposed management options are known, the potential impacts on these species will need to be assessed and appropriate precautions taken to avoid negative impacts.

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### RECOMMENDATIONS FOR FURTHER SURVEYS

Surveys for the following groups are recommended to more fully assess the wildlife interest of Stratton Audley Quarry LWS.

- Invertebrates (including ants, bees and wasps; beetles; flies; bugs; butterflies and moths; dragonflies and damselflies; freshwater invertebrates)
- Aquatic plants (including Chara species);
- Amphibians (including Great crested newt)
- Reptiles
- Birds
- Bats

**SUMMARY MANAGEMENT RECOMMENDATION**

The following table provides some recommendations that could be included in future management plans to maintain and/or enhance the wildlife interest of the site. They are based on the current recorded interest of the site and if additional interest is identified through further surveys, appropriate amendment and/or additions should be made. As the site has interest for rare species including invertebrates, specialist advice should also be sort to identify their management requirements so these can be incorporated into management plans.

Part of the site is a geological SSSI and any management requirements relating to this will need to be incorporated but are not covered here.

| Feature                                  | Recommendation   | Value  |
|--|--|--|
| Open mosaic on previously developed land | <ul style="list-style-type: none"> <li>• Maintain the range of habitat currently present in the mosaic including areas of bare ground. Retaining a varied structure of the vegetation as this is beneficial for invertebrate interest.</li> <li>• Maintain the extent of wetland (swamp/marsh/seasonal ponds) and species-rich areas of early successional vegetation and patches of calcareous grassland.</li> <li>• Manage on rotation to limit scrub encroachment</li> <li>• Periodically scrape some sections back to bare ground/bare substrate (as required) to maintain open areas of bare ground and create suitable areas for early successional/annual plants and invertebrates</li> <li>• Minimise nutrient inputs onto the site (such as those associated with dog walking/dog fouling) to maintain low nutrient inputs onto areas currently with nutrient-poor soils to limit successional to ranker grassland/tall herb communities</li> <li>• Take into account the locations and abundance of rare plant - narrow-leaved bird's-foot-trefoil when planning management activities so the population of this species is maintained.</li> </ul> | High (County)  |
| Ponds                                    | <ul style="list-style-type: none"> <li>• Maintain the range of aquatic, emergent &amp; marginal flora currently present at Target notes 12, 25 and 27</li> <li>• Take into account the locations and abundance of rare plants including grey club-rush and stonewort species when planning management activities so populations of these species can be maintained.</li> <li>• Water test indicated low/no nitrates for ponds at 18 and 25. Confirm nutrient status with Nitrate/Phosphate tests for all ponds.</li> <li>• Minimise nutrient inputs onto the site (such as those associated with dog walking/dog fouling) to maintain nutrient-poor status of waterbodies.</li> <li>• The pond at Target Note 18 is used for fishing. Do not stock the other ponds with fish/use for fishing as this is likely to have a negative impact on the</li> </ul>   | Medium for pond at Target note 18 (local)<br><br>High for other ponds (County) |

## Oxfordshire Local Wildlife Site Survey Report

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|                                 |   |   |
|---------------------------------|---|---|
|                                 | <p>associated flora and reduce the suitability of these waterbodies for other species including great crested newt.</p> <ul style="list-style-type: none"> <li>Control small patches of New Zealand Pigmyweed (<i>Crassula helmsii</i>) at the margins of the pond at Target note 25</li> <li>Manage the site to limit spread of New Zealand Pigmyweed, especially from the pond at Target note 25 and from the large pond at the northern end of the LWS (outside the survey area covered by this report).</li> </ul>  |   |
| Lowland fen                     | <ul style="list-style-type: none"> <li>This vegetation is variable in type and botanical species-richness. It includes species-poor stands of common reed and pond-sedge swamp but also species-rich areas of fen in an early stage of development. Species-poor stands should be retained where possible as they offer added additional diversity of habitat and have value for some invertebrates and birds but are lower priority than species-rich areas.</li> <li>Species-rich areas of fen in early-stage of development should be retained and managed to limit encroachment of scrub. They are likely to be important for invertebrates and support the declining species - lesser spearwort and other desirable species such as Southern marsh orchid</li> </ul>   | <p>High for species-rich fen (County)</p> <p>Medium for other areas (Local)</p> |
| Unimproved Calcareous grassland | <ul style="list-style-type: none"> <li>These areas do not currently represent a good example of lowland calcareous grassland but with sympathetic management they have potential to improve. They provide important habitat for invertebrates including botanically rich areas with a range of nectar-producing plants and should be retained.</li> <li>Limestone heath is value for invertebrates due to the fine mosaic of grassland and bare limestone and should be retained.</li> <li>Some scattered scrub should be retained but this area is likely to require some rotational scrub removal to prevent loss of open habitat to denser stands of scrub over time.</li> <li>Rougher grassland would benefit from some management to reduce nutrient building up from dead plant material (e.g. mowing with removal of cuttings) and removal of some of the encroaching scrub</li> </ul> | High (County)   |
| Rubble/earth mounds             | <ul style="list-style-type: none"> <li>These should be retained if possible as they have potential value as hibernacula for reptiles and amphibians.</li> <li>They also provide steep, sunny banks with bare ground that may have value for invertebrates including Hymenoptera species.</li> <li>The mound at Target note 30 includes a section of large diameter pipe that forms a short section of tunnel through the mound. There are a few crevices along this that may have potential for roosting bats.</li> </ul>   | Medium (local)  |
| Semi-improved neutral grassland | <ul style="list-style-type: none"> <li>Much of this grassland across central areas of the site is relatively species-poor with moderately rich patches more locally. Less botanically diverse areas would benefit from management to increase floristic diversity by implementing a cutting regime (with removal of cuttings). Some sections should be left uncut as</li> </ul>   | Low (local/site)  |



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|          |   |                  |
|----------|---|------------------|
|          | <p>rough, tussocky grassland is an important part of the range of habitats and provides the cover needed by species such as great crested newts during their terrestrial stage/overwintering invertebrates. Zoned and staged cutting to different heights could be used to create a more varied structure to the grassland.</p> <ul style="list-style-type: none"> <li>Scattered scrub provides structural diversity and some areas should be retained. Where encroachment is more extensive, rotational control is likely to be required to keep open grassland habitat.</li> </ul>  |                  |
| Scrub    | <ul style="list-style-type: none"> <li>Stands of scrub are generally dominated by a limited number of woody species but do have potential value for a range of animal species as described earlier including breeding birds, mammals, amphibians and reptiles.</li> <li>There is a large amount of scrub on the site and it is encroaching open habitats including early successional/ephemeral vegetation, unimproved calcareous grassland, semi-improved grassland, marsh and swamp. Some areas of scrub should be retained including scattered scrub and some dense stands but it should be controlled where it is encroaching onto more valuable habitat.</li> <li>As described in other sections of this table priority should be giving to managing scrub where it is forming denser stands in unimproved calcareous grassland, early-stage species-rich fen and species-rich grassland/early successional vegetation within open mosaic habitat on previously developed land.</li> <li>Male willows were identified as a feature of value for spring bees in the 2009 hymenoptera survey and where possible these should be retained.</li> </ul> | Low (local/site) |
| Hedgerow | <ul style="list-style-type: none"> <li>The hedgerows are species-poor but have value for birds and provide potential flight lines for commuting bats</li> <li>Hedgerows were identified in the 2009 hyemoptera survey a feature of value.</li> </ul>  | Low (local/site) |

## 7. REFERENCES

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JNCC (2010). Handbook for Phase 1 habitat survey - a technique for environmental audit.

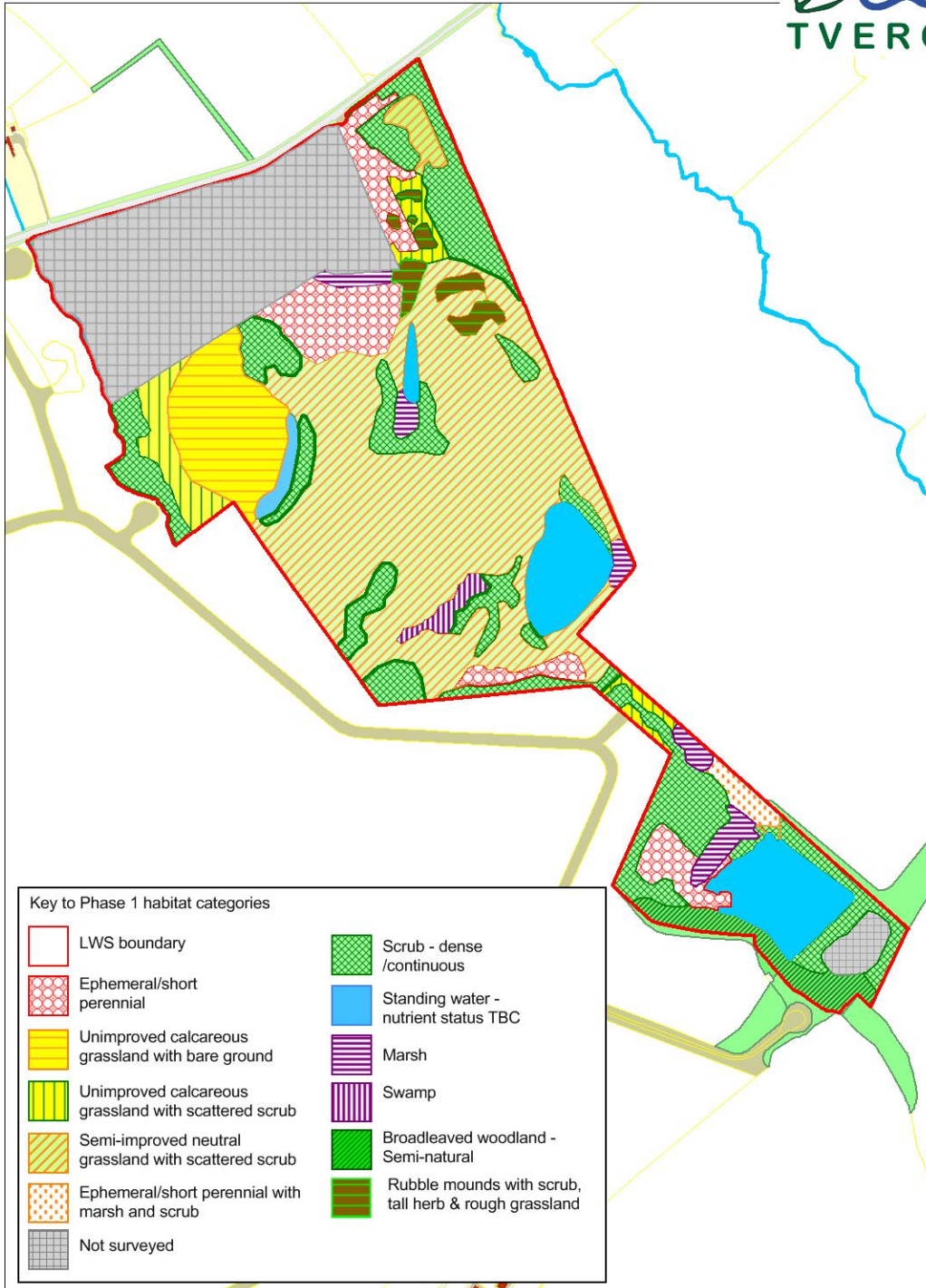
TVERC & BMERC (2018) Criteria for the Selection of Local Wildlife Sites in Berkshire, Buckinghamshire and Oxfordshire. Available at <http://www.tverc.org/cms/content/local-wildlife-sites>



8. APPENDICES

APPENDIX 1: MAPS

Stratton Audley Quarry - Phase 1 habitats

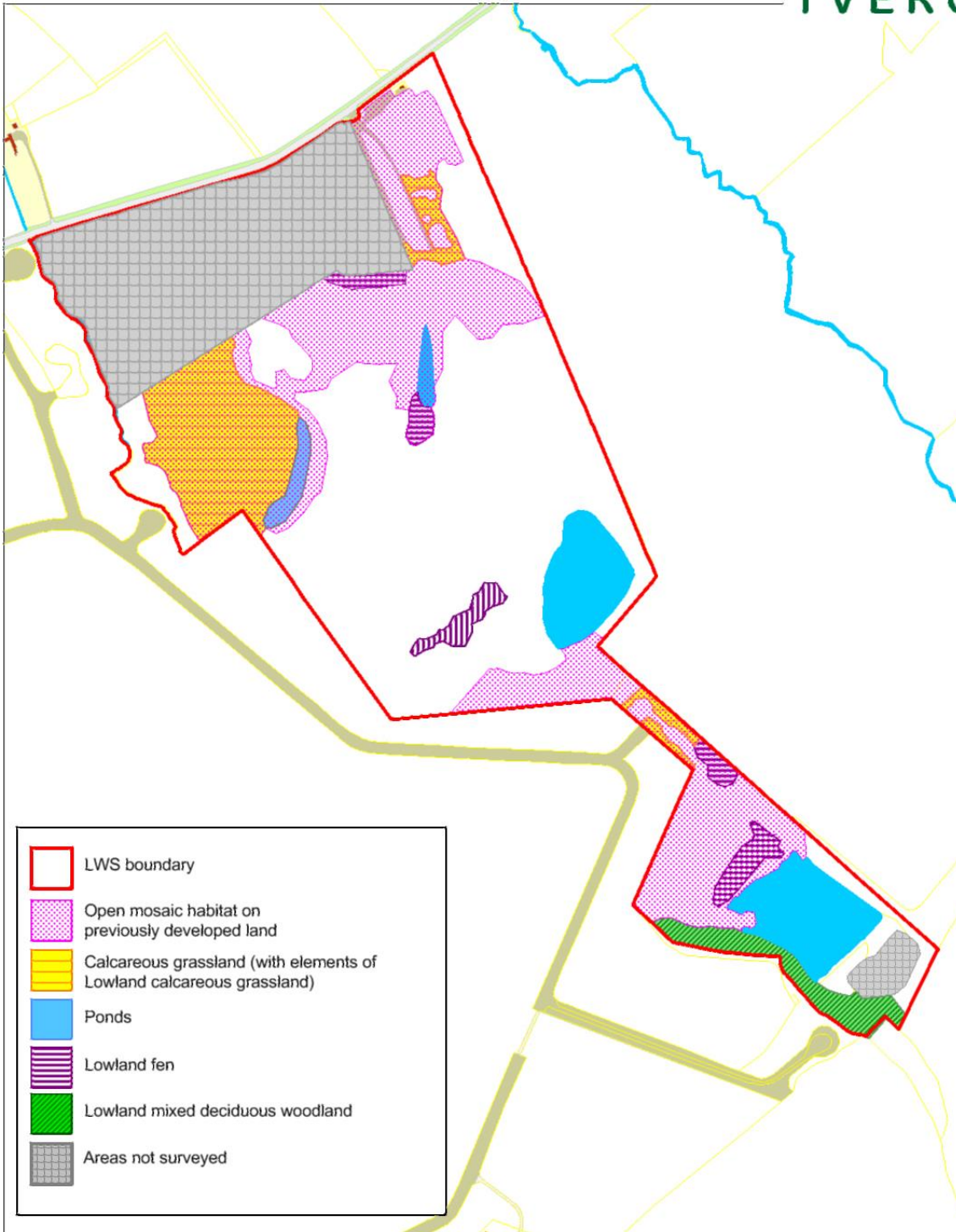


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Julie Kerans, Oxfordshire Biodiversity Officer  
2018



### Stratton Audley Quarry - Habitats of Principal Importance

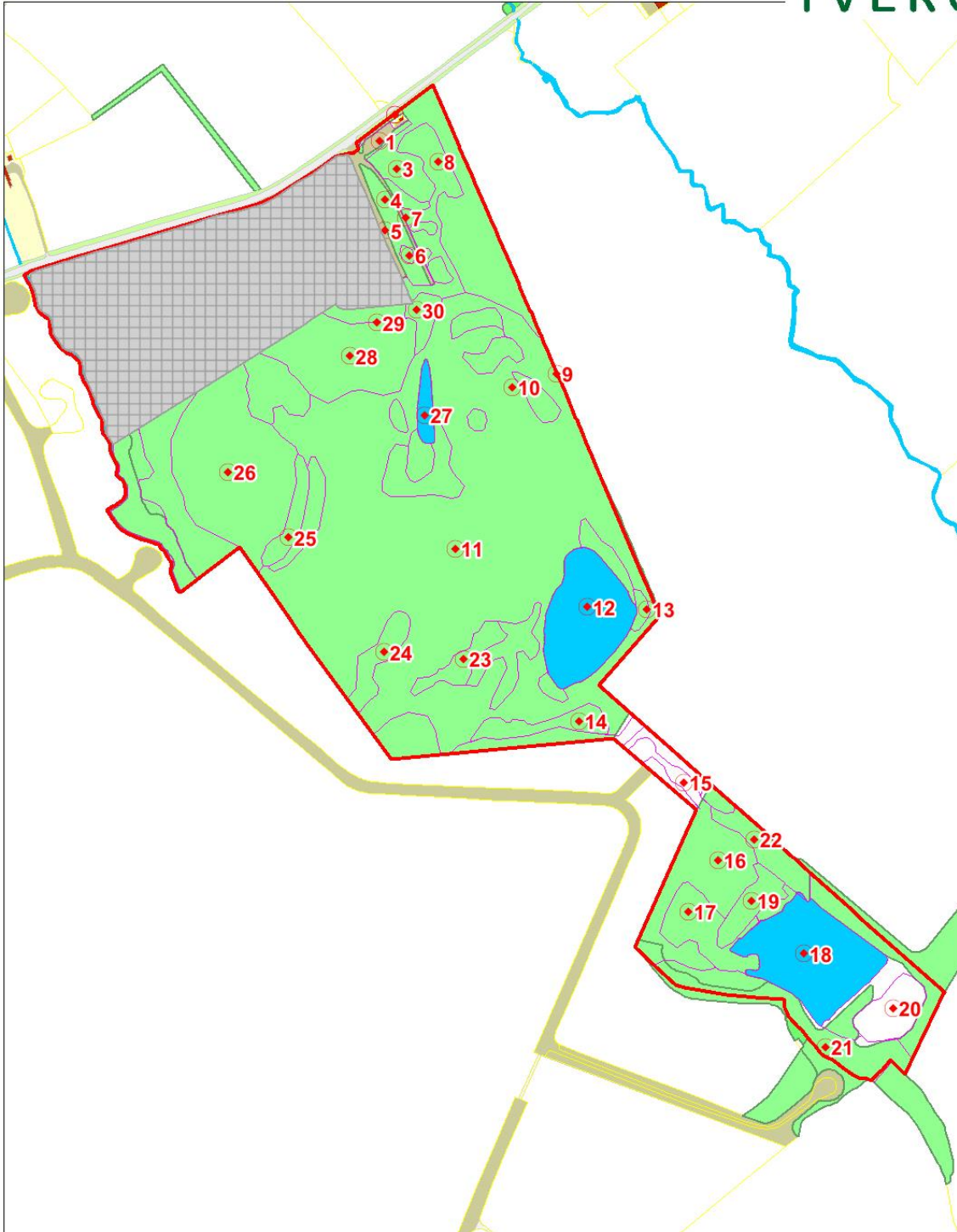


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 2018



### Stratton Audley Quarry - Target Note locations



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APPENDIX 2: TARGET NOTES AND PHOTOGRAPHS

Target note 1. Ephemeral/short perennial vegetation at the northern end of the site on degrading hardstanding. It has low growth with locally abundant bryophytes, perforate St. John's-wort and narrow-leaved bird's-foot-trefoil. Grasses include creeping bent, Yorkshire fog, false oat-grass, red fescue, annual meadow-grass and fern grass. Broadleaved species include common whitlow grass, annual pearlwort, parsley piert, field forget-me-not, common mouse-ear, sticky mouse-ear, thyme-leaved sandwort, scentless mayweed, selfheal, lesser trefoil, daisy, biting stonecrop, yarrow, common sorrel, cut-leaved crane's-bill, ribwort plantain, hoary willowherb, creeping cinquefoil, herb Robert, ground ivy, meadow vetchling, wood avens, dove's foot trefoil, colt's-foot, black medick and common vetch. Tall herbs include curled dock, agrimony, wood dock, teasel, oxeye daisy, wild parsnip and ploughman's spikenard.



Target note 2. Species-poor boundary hedge. It is hawthorn and elm dominated with bramble, ivy, wych elm, small-leaved elm, blackthorn, wild privet, English elm and sycamore. To the north east, it widens to a strip of scrub locally dominated by bramble with goat willow, grey willow, dog rose, hawthorn, elder, wild cherry and a small amount of buddleia.



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Target note 3. Scrub. It is mainly bramble with hybrid black poplar, buddleia, elder, elm species, hazel, dog rose and hawthorn. At the scrub edges, there is rough grassland with tall herb locally dominant false oat-grass, nettle and creeping thistle with spear thistle, ragwort, tare species, hard rush, oxeye daisy, columbine, teasel, hemlock, broadleaved dock, bulbous buttercup, ivy, common comfrey, everlasting sweet pea and hoary willowherb.



Target note 4. Ephemeral/short perennial vegetation grading into rough grassland with some patches of scrub. It is similar to the vegetation described in Target note 1 with locally abundant narrow-leaved bird's-foot-trefoil, perforate St. John's-wort, creeping cinquefoil and yarrow with occasional fern grass. Other species include ploughman's spikenard, fairy flax, bladder campion, hairy sedge, scarlet pimpernel, sheep's fescue, herb Robert, rough meadow-grass, common stork's-bill, shining crane's-bill, selfheal and goat's beard. There are small amounts of lady's bedstraw, cowslip, creeping buttercup, sweet vernal grass, cow parsley, rosebay willowherb and cuckooflower. Scrub includes dog rose, buddleia and grey willow.





Target note 5. Species-poor boundary hedge. It has locally dominant hawthorn and elm species including English elm with dog rose, blackthorn, sycamore, hybrid black poplar, bramble and wild privet. At the base of the hedge, there is wood avens, variegated lord's-and-ladies, ground ivy, garden daffodils and Spanish bluebell.

Target note 6. Several rubble mounds with semi-improved neutral (rough) grassland, tall herb and scrub. The grassland has a rough sward and is locally dominated by tall herb. It includes nettle, red valerian, pendulous sedge, teasel, common ragwort, black knapweed, common toadflax, rosebay willowherb, melilot species, red campion, lady's mantel, field madder, hedge crane's-bill, green alkanet, ground elder, false oat-grass and mugwort. Wetter areas adjacent to the mounds include bulrush, water forget me not and water mint. Scrub includes buddleia, goat willow, bramble, white poplar, hawthorn and aspen.



Target note 7. Remains of a wheel wash. This is a small pool of standing water in hard structured feature. It has emergent bulrush and some grey willow. The margins have bramble, rose species and grassland species as for the surrounding area including rough meadow-grass, great willowherb, pendulous sedge and cock's-foot.



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Target note 8. Semi-improved neutral (to calcareous) grassland with tall herb grading into scrub. The grassland sward is rough and there appears to be little management. This open grassy area is on higher ground at the north-east corner of the site amongst larger areas of bramble scrub. It is locally dominated by false oat-grass and Yorkshire fog with abundant creeping cinquefoil, ribwort plantain, ground ivy, creeping thistle, red fescue, rough meadow-grass and wild parsnip. There is also some glaucous sedge, field forget-me-not, hemlock, cock's-foot, meadow foxtail, tufted hair-grass, meadow buttercup, cow parsley, spear thistle, goat's-rue, colt's-foot, common mouse-ear and germander speedwell. There are some patches of upright brome. There is a small amount of hairy brome and hedge bindweed at the scrub edges.



Target note 9. Species-poor boundary hedge to the east. It includes hawthorn, blackthorn, elm species and elder. There is also some apple, bramble, dog rose and field maple.







Target note 10. Scrub. Bramble dominates with hawthorn and willow species. It includes a small amount of gorse.



Target note 11. Mosaic of semi-improved (rough) neutral grassland and scrub. It includes locally dominant false oat-grass with locally abundant hard rush, field horsetail, teasel, melilot species, glaucous sedge, rough meadow-grass and creeping cinquefoil. Scrub includes hawthorn, rose species, grey willow, bramble and dogwood. There is also pendulous sedge, hairy sedge, great willowherb and silverweed. There is a patch of wood small reed between the large rubble mound and the eastern boundary track.

To the south, the grassland sward is rough and is locally dominated by false oat-grass with abundant rough meadow-grass and oxeye daisy. There is cock's-foot, teasel, black medick, meadow buttercup, ribwort plantain, red fescue, dove's-foot crane's-bill, agrimony, common vetch, colt's-foot and red clover with a small amount of meadow vetchling and cowslip. On wetter ground there are some patches of common reed and hard rush with great willowherb, creeping Jenny, cuckooflower and grass vetchling. To the south west, there is locally abundant meadow fescue and glaucous sedge with small amount of pendulous sedge.



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Target note 12. Pond with emergent bulrush, common reed, grey club-rush and common club-rush. There is marginal great willowherb and common marsh bedstraw. The banks include rough grasses and tall herb with scrub. Grasses include false oat-grass with creeping bent, sterile brome and soft brome. Tall herbs include nettle, oxeye daisy, cow parsley, wild parsnip, goat's-beard, creeping thistle and teasel. There is also some black medick and common vetch. Scrub includes areas dominated by bramble with some ash, elder, rose species, hawthorn and willows.



Target note 13. Marsh. The pond edge to the east includes a small area of marsh. It has creeping bent, reed canary-grass and hard rush with amphibious bistort, greater pond-sedge, common marsh bedstraw, common spike-rush, grey willow and osier. There is also some tall fescue and curled dock.



Target note 14. Ephemeral/short perennial vegetation to the south west of pond described in Target note 12. There is abundant narrow-leaved bird's-foot-trefoil and much bare ground. It also includes mouse-ear hawkweed, autumn hawkbit, hard rush, colt's-foot, lesser hawkbit, oxeye daisy, common centaury, daisy,

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dandelion and bryophytes. To the south of this, the site boundary has a hedge and wet ditch with willows and locally abundant bulrush.



Target note 15. Narrow strip of willow scrub with small open patches of rough calcareous grassland and marsh with seasonal pools. The marsh and scrub edges have frequent southern marsh orchids. The grassland has a rough species-rich sward locally dominated by false oat-grass with yellow oat-grass, cock's-foot, rough meadow-grass, smooth meadow-grass, upright brome, glaucous sedge, red fescue and Yorkshire fog. It includes some large anthills. There is abundant greater knapweed with yarrow, field scabious, wild parsnip, black knapweed, fairy flax, ploughman's spikenard, common centaury, perforate St. John's-wort, red bartsia, creeping cinquefoil, oxeye daisy, black medick, colt's-foot, creeping thistle, ribwort plantain, common vetch, lady's mantel, hairy tare, agrimony, teasel, goat's-beard, creeping buttercup, selfheal, common bird's-foot-trefoil and bulbous buttercup. Grizzled skippers and dingy skippers were seen here. Marshy areas have hairy sedge, hard rush, glaucous sedge, pendulous sedge, false fox sedge, wood small-reed, flag iris, jointed rush and gipsywort. The scrub is dominated by grey willow with goat willow, osier, rose species, dogwood and bramble.



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Target note 16. Scrub. This is an area of willow scrub with a mosaic of open patches of marsh and early successional vegetation. The willows are low-growing and the ground is uneven with mounds of earth. There is some bramble and hawthorn. Under the denser scrub, there are areas of bare ground and bryophytes while more open areas have jointed-rush, hard rush, soft rush, lesser spearwort and southern marsh orchids.



Target note 17. Ephemeral/short perennial. This has areas of bare ground and bryophytes with early successional vegetation including mouse-ear hawkweed, oxeye daisy, biting stonecrop, black knapweed, common centaury, fairy flax, field wood-rush, common bird's-foot-trefoil, ribwort plantain, lesser hawkbit, ploughman's spikenard, daisy, wild parsnip and perforate St. John's-wort. There is some scrub including bramble, hawthorn and willows.



Target note 18. Pond. This a large pond used for fishing with a path around edge. The banks are wooded with grey willow, hawthorn, sycamore, English elm and blackthorn. Aquatic plants include white water lily and ornamental pink-flowered water lily. There are some patches of emergent bulrush. The margins include common spike-rush, watermint, soft rush, hard rush, common fleabane and gipsywort. To the



north west, the path edges include species-rich areas of species-rich grassland with mouse-ear hawkweed, eyebright, carline thistle, fairy flax, glaucous sedge and common centaury.



Target note 19. Marsh (Lowland fen). This is an area of establishing early stage fen (proto-fen) with willow scrub and bare ground. It includes areas dominated by lesser pond-sedge, bryophytes and with glaucous sedge, stonewort (*Chara* species) and pondweed (*Potamogeton* species), lesser spearwort, southern marsh orchids, sharp-flowered-rush and jointed rush.



Target note 20. Open area of grassland surrounded by scrub. This area was not seen in any detail the as Fishing pond boundary has electric fencing. It was last recorded as developing calcareous grassland. This area still includes grassland but type needs confirming.



Target note 21. Broadleaved semi-natural woodland (Lowland mixed deciduous woodland). It is locally dominated by ash, grey poplar and goat willow. Shrubs include hawthorn, blackthorn, grey willow and elder. The field layer has nettle, ivy and bramble with water figwort, great willowherb, wood avens, ground ivy and cleavers.



Target note 22. Ephemeral/short perennial vegetation with patches of marsh and scrub. There is also some rougher grassland and tall herb at the scrub edges. This area has similar species to those recorded for Target note 17 with colt's-foot but grades into marshy areas with glaucous sedge, jointed rush, hard rush and southern marsh orchids.

Target note 23. Swamp. Small area dominated by common reed with hard rush and great willowherb surrounded willow scrub. There is also some meadow vetchling and common fleabane.



Target note 24. Scrub. It includes locally dominant hawthorn with grey willow and bramble. Under denser areas the field layer is poorly developed but the edges have rough grassland species similar to the



surrounding vegetation with ground ivy, rough meadow-grass, creeping bent, cock's-foot, hard rush, hairy sedge, creeping buttercup and wood avens.



Target note 25. Pond with areas of emergent bulrush and common club-rush. The margins include locally abundant watermint, bulrush and common spike-rush with hard rush, jointed rush, common marsh bedstraw, creeping bent, false fox-sedge and water forget-me-not. The western bank also includes bittersweet, hairy sedge and gipsywort. The eastern bank has willow scrub including grey willow and osier. At the time of the second visit, the pond had dried out and abundant stonewort species (*Chara* species) could be seen with a small amount of water-crowfoot species (*Ranunculus*). There is also a small amount of New Zealand Pigmyweed along the pond margin to the east (a patch approximately 1.5m by 2m).



Target note 26. Unimproved calcareous grassland with bare ground ('Limestone heath'). To the north and centrally, there is open sward grassland dominated by sheep's fescue in mosaic with bare limestone and scattered scrub. To the south east, near the pond margin quaking grass is locally dominant. The grassland includes red fescue, creeping cinquefoil, lesser hawkbit, daisy, narrow-leaved bird's-foot trefoil, bryophyte species, wild carrot, glaucous sedge, selfheal, mouse-ear hawkweed, common centaury and oxeye daisy.

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There is a small amount of selfheal, whitlow grass, lady's bedstraw, bee orchid and fairy flax. Scrub includes hawthorn, rose species with willows including grey willow. There is denser hawthorn scrub to the west with patches of wood small-reed at the scrub edges. At the northern edge, there is a small area of wetter ground with a seasonal pond. It has common reed, hard rush, jointed rush and a small amount of galingale.



Target note 27. Pond. Long narrow pond with locally dominant emergent bulrush and common spike-rush with brooklime, water plantain and flag iris. There is marginal jointed rush, hard rush, great willowherb and gipsywort. The banks include field horsetail, common fleabane, grey willow, hawthorn, bramble and silverweed. There is also some lady's bedstraw and melilot species.







Target note 28. Ephemeral/short perennial vegetation. It has a short open sward with areas of bare ground. It includes lesser hawkbit, common centaury, perforate St. John's-wort, narrow-leaved bird's-foot-trefoil, daisy, teasel, creeping buttercup, common ragwort, creeping cinquefoil, yarrow, creeping bent and common centaury.



Target note 29. Marsh with seasonal pond. It has locally abundant hard rush, jointed rush and smaller amounts of common club-rush. Grassy areas have Yorkshire fog and creeping bent with narrow-leaved bird's-foot-trefoil, smooth tare, common fleabane and common centaury. Scrub at the margins includes hawthorn, elm species and grey willow.



Target note 30. Scrub on earth and rubble mound with a section of large diameter pipe that forms a short tunnel through the mound. The vegetation found here is similar to that described for Target note 6.

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### APPENDIX 3: TYPICAL & INDICATOR SPECIES

Table 1. Species typical/indicators for lowland calcareous grassland recorded during 2018 surveys (TVERC & BMERC 2018).

| Taxon Name                   | Common Name           |
|------------------------------|-----------------------|
| <i>Ophrys apifera</i>        | Bee Orchid            |
| <i>Erigeron acer</i>         | Blue fleabane         |
| <i>Carlina vulgaris</i>      | Carlina thistle       |
| <i>Centaureum erythraea</i>  | Common centaury       |
| <i>Primula veris</i>         | Cowslip               |
| <i>Euphrasia</i>             | Eyebright             |
| <i>Linum catharticum</i>     | Fairy Flax            |
| <i>Catapodium rigidum</i>    | Fern grass            |
| <i>Knautia arvensis</i>      | Field scabious        |
| <i>Centaurea scabiosa</i>    | Greater knapweed      |
| <i>Origanum vulgare</i>      | Marjoram              |
| <i>Pilosella officinarum</i> | Mouse-ear hawkweed    |
| <i>Inula conyzae</i>         | Ploughman's-spikenard |
| <i>Briza media</i>           | Quaking grass         |
| <i>Festuca ovina</i> agg.    | Sheep's Fescue        |
| <i>Bromopsis erecta</i>      | Upright brome         |
| <b>Total</b>                 | <b>16</b>             |

Table 2. Species typical of 'Open mosaic habitat on previously developed land' recorded during 2018 surveys (as defined by ADAS 2010 for southern England)

| Common name           | Scientific name                  |
|-----------------------|----------------------------------|
| Mugwort               | <i>Artemisia vulgaris</i>        |
| Michaelmas-Daisy      | <i>Aster novi-belgii</i>         |
| Common Knapweed       | <i>Centaurea nigra</i>           |
| Common Centaury       | <i>Centaureum erythraea</i>      |
| Common Mouse-Ear      | <i>Cerastium fontanum</i>        |
| Hemlock               | <i>Conium maculatum</i>          |
| Smooth Hawk's-beard   | <i>Crepis capillaris</i>         |
| Southern Marsh-Orchid | <i>Dactylorhiza praetermissa</i> |

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| Common name                       | Scientific name                          |
|-----------------------------------|--|
| Wild Carrot                       | <i>Daucus carota</i> ssp. <i>sativus</i> |
| Field Horsetail                   | <i>Equisetum arvense</i>                 |
| Blue Fleabane                     | <i>Erigeron acer</i>                     |
| Eyebright                         | <i>Euphrasia</i> spp.                    |
| Goat's-rue                        | <i>Galega officinalis</i>                |
| Perforate St. John's-Wort         | <i>Hypericum perforatum</i>              |
| Hard Rush                         | <i>Juncus inflexus</i>                   |
| Common Toadflax                   | <i>Linaria vulgaris</i>                  |
| Fairy Flax                        | <i>Linum catharticum</i>                 |
| Narrow-leaved Bird's-foot-trefoil | <i>Lotus glaber</i>                      |
| Black Medick                      | <i>Medicago lupulina</i>                 |
| Tall Melilot                      | <i>Melilotus altissimus</i>              |
| Ribbed Melilot                    | <i>Melilotus officinalis</i>             |
| Red Bartsia                       | <i>Odontites vernus</i>                  |
| Bee Orchid                        | <i>Ophrys apifera</i>                    |
| Bristly Oxtongue                  | <i>Picris echioides</i>                  |
| Ribwort Plantain                  | <i>Plantago lanceolata</i>               |
| Weld                              | <i>Reseda luteola</i>                    |
| Bladder Campion                   | <i>Silene vulgaris</i>                   |
| Goat's-Beard                      | <i>Tragopogon pratensis</i>              |
| Hop Trefoil                       | <i>Trifolium campestre</i>               |
| Lesser Trefoil                    | <i>Trifolium dubium</i>                  |
| Red Clover                        | <i>Trifolium pratense</i>                |
| Yellow Oat-Grass                  | <i>Trisetum flavescens</i>               |
| Colt's-Foot                       | <i>Tussilago farfara</i>                 |
| Tufted Vetch                      | <i>Vicia cracca</i>                      |
| Hairy Tare                        | <i>Vicia hirsuta</i>                     |
| Smooth Tare                       | <i>Vicia tetrasperma</i>                 |
| <b>Total</b>                      | <b>36</b>                                |

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Table 3. Typical species for lowland fen recorded during 2018 surveys (TVERC & BMERC 2018).

| <b>Taxon Name</b>         | <b>Common Name</b>    |
|---------------------------|-----------------------|
| Solanum dulcamara         | Bittersweet           |
| Veronica beccabunga       | Brooklime             |
| Carex panicea             | Carnation sedge       |
| Schoenoplectus lacustris  | Common Club-rush      |
| Galium palustre           | Common marsh bedstraw |
| Eleocharis palustris      | Common spike rush     |
| Vicia sativa              | Common vetch          |
| Apium nodiflorum          | Fools watercress      |
| Epilobium hirsutum        | Great willowherb      |
| Calystegia sepium         | Hedge bindweed        |
| Carex acutiformis         | Lesser Pond-sedge     |
| Cirsium palustre          | Marsh thistle         |
| Lythrum salicaria         | Purple loosestrife    |
| Phalaris arundinacea      | Reed Canary-Grass     |
| Typha latifolia           | Reedmace              |
| Dactylorhiza praetermissa | Southern marsh orchid |
| Mentha aquatica           | Water mint            |
| <b>Total</b>              | <b>17</b>             |

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### APPENDIX 4: SPECIES RECORDED

The following species were recorded during the site visits carried out on 24<sup>th</sup> May 2018 and 20<sup>th</sup> July 2018. Lists are provided for the main habitat types found and include estimates of species abundance using the DAFOR scale. Where the abundance of a species could not be determined 'P' has been entered to indicate the species was present.

Table 4. Species recorded in unimproved calcareous grassland (including at Target Note 15 and 26)

| Common name                       | Scientific name                  | Abundance |
|-----------------------------------|----------------------------------|-----------|
| Agrimony                          | <i>Agrimonia eupatoria</i>       | R         |
| Common Bent                       | <i>Agrostis capillaris</i>       | R         |
| Creeping Bent                     | <i>Agrostis stolonifera</i>      | R         |
| Parsley Piert                     | <i>Aphanes arvensis</i> agg.     | LF        |
| False Oat-Grass                   | <i>Arrhenatherum elatius</i>     | LD        |
| Daisy                             | <i>Bellis perennis</i>           | LF        |
| Quaking-Grass                     | <i>Briza media</i>               | LA        |
| Upright brome                     | <i>Bromopsis erecta</i>          | R         |
| Fern-Grass                        | <i>Catapodium rigidum</i>        | R         |
| Common Knapweed                   | <i>Centaurea nigra</i>           | R         |
| Greater knapweed                  | <i>Centaurea scabiosa</i>        | LF        |
| Common Centaury                   | <i>Centaurium erythraea</i>      | R         |
| Creeping Thistle                  | <i>Cirsium arvense</i>           | O         |
| Hawthorn                          | <i>Crataegus monogyna</i>        | F         |
| Field Horsetail                   | <i>Equisetum arvense</i>         | R         |
| Blue Fleabane                     | <i>Erigeron acer</i>             | R         |
| Eyebright                         | <i>Euphrasia</i>                 | R         |
| Sheep's Fescue agg.               | <i>Festuca ovina</i> agg.        | LD        |
| Ploughman's-Spikenard             | <i>Inula conyzae</i>             | R         |
| Field scabious                    | <i>Knautia arvensis</i>          | R         |
| Autumnal Hawkbit                  | <i>Leontodon autumnalis</i>      | O         |
| Rough Hawkbit                     | <i>Leontodon hispidus</i>        | R         |
| Lesser Hawkbit                    | <i>Leontodon saxatilis</i>       | LF        |
| Oxeye Daisy                       | <i>Leucanthemum vulgare</i>      | O         |
| Fairy Flax                        | <i>Linum catharticum</i>         | O         |
| Common Bird's-Foot-Trefoil        | <i>Lotus corniculatus</i>        | O         |
| Narrow-leaved Bird's-foot-trefoil | <i>Lotus tenuis</i>              | LF        |
| Marjoram                          | <i>Origanum vulgare</i>          | R         |
| Red Bartsia                       | <i>Odontites vernus</i>          | O         |
| Bee Orchid                        | <i>Ophrys apifera</i>            | R         |
| Bristly Oxtongue                  | <i>Picris echioides</i>          | R         |
| Mouse-Ear-Hawkweed                | <i>Pilosella officinarum</i>     | LF        |
| Annual Meadow-Grass               | <i>Poa annua</i>                 | R         |
| Creeping Cinquefoil               | <i>Potentilla reptans</i>        | O         |
| Selfheal                          | <i>Prunella vulgaris</i>         | LF        |
| Dog Rose                          | <i>Rosa canina</i> agg.          | F         |
| Common Ragwort                    | <i>Senecio jacobaea</i>          | R         |
| Dandelion                         | <i>Taraxacum officinale</i> agg. | R         |
| Common Vetch                      | <i>Vicia sativa</i>              | LF        |

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Table 5. Species recorded in semi-improved grassland (including Target notes 8 and 11)

| Common name        | Scientific name                 | Abundance |
|--------------------|---------------------------------|-----------|
| Yarrow             | <i>Achillea millefolium</i>     | O         |
| Ground-Elder       | <i>Aegopodium podagraria</i>    | R         |
| Agrimony           | <i>Agrimonia eupatoria</i>      | O         |
| Common Bent        | <i>Agrostis capillaris</i>      | LD        |
| Creeping Bent      | <i>Agrostis stolonifera</i>     | LD        |
| Lady's-Mantle      | <i>Alchemilla mollis</i>        | R         |
| Garlic Mustard     | <i>Alliaria petiolata</i>       | R         |
| Meadow Foxtail     | <i>Alopecurus pratensis</i>     | O         |
| Barren Brome       | <i>Anisantha sterilis</i>       | LF        |
| Orange-tip         | <i>Anthocharis cardamines</i>   | P         |
| Sweet Vernal Grass | <i>Anthoxanthum odoratum</i>    | O         |
| Cow Parsley        | <i>Anthriscus sylvestris</i>    | LF        |
| Parsley Piert      | <i>Aphanes arvensis</i> agg.    | R         |
| Columbine          | <i>Aquilegia vulgaris</i>       | R         |
| Greater Burdock    | <i>Arctium lappa</i>            | R         |
| Wormwood           | <i>Artemisia absinthium</i>     | R         |
| Lesser Burdock     | <i>Arctium minus</i>            | R         |
| False Oat-Grass    | <i>Arrhenatherum elatius</i>    | LD        |
| Mugwort            | <i>Artemisia vulgaris</i>       | R         |
| Lords-And-Ladies   | <i>Arum maculatum</i>           | R         |
| Michaelmas-Daisy   | <i>Aster</i>                    | R         |
| Winter-Cress       | <i>Barbarea vulgaris</i>        | R         |
| Daisy              | <i>Bellis perennis</i>          | O         |
| False-Brome        | <i>Brachypodium sylvaticum</i>  | LA        |
| Quaking-Grass      | <i>Briza media</i>              | O         |
| Upright Brome      | <i>Bromopsis erecta</i>         | LA        |
| Soft-Brome         | <i>Bromus hordeaceus</i>        | O         |
| Butterfly-Bush     | <i>Buddleja davidii</i>         | R         |
| Wood Small-reed    | <i>Calamagrostis epigejos</i>   | R         |
| Hedge Bindweed     | <i>Calystegia sepium</i>        | R         |
| Cuckooflower       | <i>Cardamine pratensis</i>      | R         |
| Glaucous Sedge     | <i>Carex flacca</i>             | LF        |
| Hairy Sedge        | <i>Carex hirta</i>              | LF        |
| False Fox-Sedge    | <i>Carex otrubae</i>            | R         |
| Pendulous Sedge    | <i>Carex pendula</i>            | O         |
| Fern-Grass         | <i>Catapodium rigidum</i>       | R         |
| Common Knapweed    | <i>Centaurea nigra</i>          | R         |
| Greater Knapweed   | <i>Centaurea scabiosa</i>       | LF        |
| Common Mouse-Ear   | <i>Cerastium fontanum</i>       | O         |
| Sticky Mouse-Ear   | <i>Cerastium glomeratum</i>     | R         |
| Rosebay Willowherb | <i>Chamerion angustifolium</i>  | O         |
| Creeping Thistle   | <i>Cirsium arvense</i>          | LF        |
| Spear Thistle      | <i>Cirsium vulgare</i>          | O         |
| Wild Basil         | <i>Clinopodium vulgare</i>      | R         |
| Small Heath        | <i>Coenonympha pamphilus</i>    | P         |
| Hemlock            | <i>Conium maculatum</i>         | R         |
| Dogwood            | <i>Cornus sanguinea</i>         | R         |
| Wall Cotoneaster   | <i>Cotoneaster horizontalis</i> | R         |
| Hawthorn           | <i>Crataegus monogyna</i>       | LF        |

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| Common name                  | Scientific name               | Abundance |
|------------------------------|-------------------------------|-----------|
| Smooth Hawk's-Beard          | <i>Crepis capillaris</i>      | R         |
| Montbretia                   | <i>Crocoshmia</i>             | R         |
| Crested Dog's-Tail           | <i>Cynosurus cristatus</i>    | O         |
| Cock's-Foot                  | <i>Dactylis glomerata</i>     | F         |
| Common Spotted-Orchid        | <i>Dactylorhiza fuchsii</i>   | R         |
| Wild Carrot                  | <i>Daucus carota</i>          | O         |
| Tufted Hair-Grass            | <i>Deschampsia caespitosa</i> | LF        |
| Wild Teasel                  | <i>Dipsacus fullonum</i>      | LF        |
| Common Spike-Rush            | <i>Eleocharis palustris</i>   | R         |
| Great Willowherb             | <i>Epilobium hirsutum</i>     | R         |
| Hoary Willowherb             | <i>Epilobium parviflorum</i>  | R         |
| Square-Stalked Willowherb    | <i>Epilobium tetragonum</i>   | R         |
| Field Horsetail              | <i>Equisetum arvense</i>      | R         |
| Blue Fleabane                | <i>Erigeron acer</i>          | R         |
| Tall Fescue                  | <i>Festuca arundinacea</i>    | R         |
| Sheep's Fescue agg.          | <i>Festuca ovina</i> agg.     | LA        |
| Red Fescue                   | <i>Festuca rubra</i>          | LA        |
| Ash                          | <i>Fraxinus excelsior</i>     | R         |
| Goat's-rue                   | <i>Galega officinalis</i>     | R         |
| Cleavers                     | <i>Galium aparine</i>         | R         |
| Common Marsh-Bedstraw        | <i>Galium palustre</i>        | R         |
| Lady's Bedstraw              | <i>Galium verum</i>           | R         |
| Cut-Leaved Crane's-Bill      | <i>Geranium dissectum</i>     | F         |
| Dove's-Foot Crane's-Bill     | <i>Geranium molle</i>         | F         |
| Herb-Robert                  | <i>Geranium robertianum</i>   | R         |
| Herb Bennet                  | <i>Geum urbanum</i>           | R         |
| Ground-Ivy                   | <i>Glechoma hederacea</i>     | LA        |
| Brimstone                    | <i>Gonepteryx rhamni</i>      | P         |
| Ivy                          | <i>Hedera helix</i>           | R         |
| Hogweed                      | <i>Heracleum sphondylium</i>  | O         |
| Yorkshire-Fog                | <i>Holcus lanatus</i>         | LA        |
| Hairy St. John's-Wort        | <i>Hypericum hirsutum</i>     | O         |
| Imperforate St John's-wort   | <i>Hypericum maculatum</i>    | R         |
| Perforate St. John's-Wort    | <i>Hypericum perforatum</i>   | LF        |
| Ploughman's-Spikenard        | <i>Inula conyzae</i>          | R         |
| Hard Rush                    | <i>Juncus inflexus</i>        | LA        |
| Field Scabious               | <i>Knautia arvensis</i>       | R         |
| Great Lettuce                | <i>Lactuca virosa</i>         | R         |
| White Dead-Nettle            | <i>Lamium album</i>           | R         |
| Broad-leaved Everlasting-pea | <i>Lathyrus latifolius</i>    | R         |
| Grass Vetchling              | <i>Lathyrus nissolia</i>      | R         |
| Meadow Vetchling             | <i>Lathyrus pratensis</i>     | R         |
| Autumnal Hawkbit             | <i>Leontodon autumnalis</i>   | O         |
| Lesser Hawkbit               | <i>Leontodon saxatilis</i>    | LF        |
| Oxeye Daisy                  | <i>Leucanthemum vulgare</i>   | LA        |
| Common Toadflax              | <i>Linaria vulgaris</i>       | R         |
| Fairy Flax                   | <i>Linum catharticum</i>      | R         |
| Perennial Rye-Grass          | <i>Lolium perenne</i>         | R         |
| Common Bird's-Foot-Trefoil   | <i>Lotus corniculatus</i>     | O         |
| Creeping-Jenny               | <i>Lysimachia nummularia</i>  | R         |

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| Common name         | Scientific name                  | Abundance |
|---------------------|----------------------------------|-----------|
| Dotted Loosestrife  | <i>Lysimachia punctata</i>       | R         |
| Black Medick        | <i>Medicago lupulina</i>         | LF        |
| Tall Melilot        | <i>Melilotus altissimus</i>      | R         |
| Ribbed Melilot      | <i>Melilotus officinalis</i>     | LA        |
| Balm                | <i>Melissa officinalis</i>       | R         |
| Water Mint          | <i>Mentha aquatica</i>           | R         |
| Field Forget-Me-Not | <i>Myosotis arvensis</i>         | O         |
| Wild Marjoram       | <i>Origanum vulgare</i>          | R         |
| Orobanche           | <i>Orobanche</i>                 | R         |
| European Rabbit     | <i>Oryctolagus cuniculus</i>     | P         |
| Wild Parsnip        | <i>Pastinaca sativa</i>          | VLF       |
| Green Alkanet       | <i>Pentaglottis sempervirens</i> | R         |
| Reed Canary-Grass   | <i>Phalaris arundinacea</i>      | R         |
| Common Reed         | <i>Phragmites australis</i>      | R         |
| Magpie              | <i>Pica pica</i>                 | P         |
| Bristly Oxtongue    | <i>Picris echioides</i>          | R         |
| Large White         | <i>Pieris brassicae</i>          | P         |
| Mouse-Ear-Hawkweed  | <i>Pilosella officinarum</i>     | O         |
| Ribwort Plantain    | <i>Plantago lanceolata</i>       | LF        |
| Greater Plantain    | <i>Plantago major</i>            | R         |
| Annual Meadow-Grass | <i>Poa annua</i>                 | R         |
| Smooth Meadow-Grass | <i>Poa pratensis</i>             | O         |
| Rough Meadow-Grass  | <i>Poa trivialis</i>             | LA        |
| Common Blue         | <i>Polyommatus icarus</i>        | P         |
| Aspen               | <i>Populus tremula</i>           | R         |
| Silverweed          | <i>Potentilla anserina</i>       | R         |
| Creeping Cinquefoil | <i>Potentilla reptans</i>        | LF        |
| Cowslip             | <i>Primula veris</i>             | R         |
| Selfheal            | <i>Prunella vulgaris</i>         | O         |
| Blackthorn          | <i>Prunus spinosa</i>            | LF        |
| Meadow Buttercup    | <i>Ranunculus acris</i>          | O         |
| Bulbous Buttercup   | <i>Ranunculus bulbosus</i>       | LF        |
| Creeping Buttercup  | <i>Ranunculus repens</i>         | LF        |
| Yellow-Rattle       | <i>Rhinanthus minor</i>          | R         |
| Red Currant         | <i>Ribes rubrum</i>              | R         |
| Field Rose          | <i>Rosa arvensis</i>             | O         |
| Dog Rose            | <i>Rosa canina</i> agg.          | LF        |
| Japanese Rose       | <i>Rosa rugosa</i>               | P         |
| Dewberry            | <i>Rubus caesius</i>             | LF        |
| Bramble             | <i>Rubus fruticosus</i> agg.     | LA        |
| Common Sorrel       | <i>Rumex acetosa</i>             | O         |
| Clustered Dock      | <i>Rumex conglomeratus</i>       | R         |
| Curled Dock         | <i>Rumex crispus</i>             | O         |
| Broad-Leaved Dock   | <i>Rumex obtusifolius</i>        | R         |
| Wood Dock           | <i>Rumex sanguineus</i>          | R         |
| Goat Willow         | <i>Salix caprea</i>              | O         |
| Grey Willow         | <i>Salix cinerea</i>             | LF        |
| Elder               | <i>Sambucus nigra</i>            | R         |
| Hoary Ragwort       | <i>Senecio erucifolius</i>       | R         |
| Common Ragwort      | <i>Senecio jacobaea</i>          | R         |

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| Common name            | Scientific name                  | Abundance |
|------------------------|----------------------------------|-----------|
| White Champion         | <i>Silene latifolia</i>          | R         |
| Bladder Champion       | <i>Silene vulgaris</i>           | R         |
| Stone Parsley          | <i>Sison amomum</i>              | R         |
| Prickly Sow-Thistle    | <i>Sonchus asper</i>             | R         |
| Smooth Sow-Thistle     | <i>Sonchus oleraceus</i>         | R         |
| Hedge Woundwort        | <i>Stachys sylvatica</i>         | R         |
| Common Comfrey         | <i>Symphytum officinale</i>      | R         |
| Russian Comfrey        | <i>Symphytum x uplandicum</i>    | R         |
| Dandelion              | <i>Taraxacum officinale</i> agg. | R         |
| Upright Hedge-Parsley  | <i>Torilis japonica</i>          | R         |
| Goat's-Beard           | <i>Tragopogon pratensis</i>      | R         |
| Lesser Trefoil         | <i>Trifolium dubium</i>          | LF        |
| Red Clover             | <i>Trifolium pratense</i>        | O         |
| Scentless Mayweed      | <i>Tripleurospermum inodorum</i> | R         |
| Yellow Oat-Grass       | <i>Trisetum flavescens</i>       | O         |
| Blackbird              | <i>Turdus merula</i>             | P         |
| Colt's-Foot            | <i>Tussilago farfara</i>         | R         |
| Wych Elm               | <i>Ulmus glabra</i>              | R         |
| English Elm            | <i>Ulmus procera</i>             | R         |
| Common Nettle          | <i>Urtica dioica</i>             | LF        |
| Common Cornsalad       | <i>Valerianella locusta</i>      | R         |
| Mullein                | <i>Verbascum</i>                 | R         |
| Germander Speedwell    | <i>Veronica chamaedrys</i>       | LF        |
| Thyme-Leaved Speedwell | <i>Veronica serpyllifolia</i>    | O         |
| Tufted Vetch           | <i>Vicia cracca</i>              | R         |
| Hairy Tare             | <i>Vicia hirsuta</i>             | O         |
| Common Vetch           | <i>Vicia sativa</i>              | LF        |
| Bush Vetch             | <i>Vicia sepium</i>              | R         |
| Smooth Tare            | <i>Vicia tetrasperma</i>         | O         |
| Sweet Violet           | <i>Viola odorata</i>             | R         |

Table 6. Species recorded in scrub and hedgerows (including at Target notes 2, 3, 5, 6, 9, 16, 24 and 30)

| Common name      | Scientific name              | Abundance |
|------------------|------------------------------|-----------|
| Field Maple      | <i>Acer campestre</i>        | R         |
| Sycamore         | <i>Acer pseudoplatanus</i>   | R         |
| Common Bent      | <i>Agrostis capillaris</i>   | LF        |
| Creeping Bent    | <i>Agrostis stolonifera</i>  | LF        |
| Garlic Mustard   | <i>Alliaria petiolata</i>    | R         |
| Italian Alder    | <i>Alnus cordata</i>         | R         |
| Alder            | <i>Alnus glutinosa</i>       | R         |
| Barren Brome     | <i>Anisantha sterilis</i>    | LA        |
| Cow Parsley      | <i>Anthriscus sylvestris</i> | O         |
| Greater Burdock  | <i>Arctium lappa</i>         | R         |
| Lesser Burdock   | <i>Arctium minus</i>         | R         |
| False Oat-Grass  | <i>Arrhenatherum elatius</i> | LA        |
| Lords-And-Ladies | <i>Arum maculatum</i>        | R         |
| Butterfly-Bush   | <i>Buddleja davidii</i>      | R         |
| Hedge Bindweed   | <i>Calystegia sepium</i>     | R         |
| Glaucous Sedge   | <i>Carex flacca</i>          | VLF       |

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| Common name               | Scientific name                                | Abundance |
|---------------------------|--|-----------|
| Pendulous Sedge           | <i>Carex pendula</i>                           | O         |
| Red Valerian              | <i>Centranthus ruber</i>                       | R         |
| Creeping Thistle          | <i>Cirsium arvense</i>                         | R         |
| Spear Thistle             | <i>Cirsium vulgare</i>                         | R         |
| Woodpigeon                | <i>Columba palumbus</i>                        | P         |
| Hemlock                   | <i>Conium maculatum</i>                        | R         |
| Dogwood                   | <i>Cornus sanguinea</i>                        | O         |
| Hazel                     | <i>Corylus avellana</i>                        | R         |
| Hawthorn                  | <i>Crataegus monogyna</i>                      | LD        |
| Crested Dog's-Tail        | <i>Cynosurus cristatus</i>                     | R         |
| Broom                     | <i>Cytisus scoparius</i>                       | R         |
| Cock's-Foot               | <i>Dactylis glomerata</i>                      | R         |
| Southern Marsh-Orchid     | <i>Dactylorhiza praetermissa</i>               | R         |
| Great Willowherb          | <i>Epilobium hirsutum</i>                      | R         |
| Hoary Willowherb          | <i>Epilobium parviflorum</i>                   | R         |
| Tall Fescue               | <i>Festuca arundinacea</i>                     | R         |
| Meadow Fescue             | <i>Festuca pratensis</i>                       | O         |
| Alder Buckthorn           | <i>Frangula alnus</i>                          | R         |
| Ash                       | <i>Fraxinus excelsior</i>                      | O         |
| Cleavers                  | <i>Galium aparine</i>                          | R         |
| Herb-Robert               | <i>Geranium robertianum</i>                    | R         |
| Herb Bennet               | <i>Geum urbanum</i>                            | O         |
| Ground-Ivy                | <i>Glechoma hederacea</i>                      | LF        |
| Ivy                       | <i>Hedera helix</i>                            | LF        |
| Hogweed                   | <i>Heracleum sphondylium</i>                   | R         |
| Yorkshire-Fog             | <i>Holcus lanatus</i>                          | LF        |
| Perforate St. John's-Wort | <i>Hypericum perforatum</i>                    | R         |
| Stinking Iris             | <i>Iris foetidissima</i>                       | R         |
| Yellow Iris               | <i>Iris pseudacorus</i>                        | R         |
| Jointed Rush              | <i>Juncus articulatus</i>                      | R         |
| Soft Rush                 | <i>Juncus effusus</i>                          | R         |
| Hard Rush                 | <i>Juncus inflexus</i>                         | LF        |
| Wild Privet               | <i>Ligustrum vulgare</i>                       | R         |
| Creeping-Jenny            | <i>Lysimachia nummularia</i>                   | R         |
| Apple                     | <i>Malus domestica</i>                         | R         |
| Crab Apple                | <i>Malus sylvestris</i>                        | R         |
| Water Mint                | <i>Mentha aquatica</i>                         | R         |
| Water Forget-Me-Not       | <i>Myosotis scorpioides</i>                    | R         |
| Scots Pine                | <i>Pinus sylvestris</i>                        | R         |
| Rough Meadow-Grass        | <i>Poa trivialis</i>                           | LA        |
| Grey Poplar               | <i>Populus alba x tremula = P. x canescens</i> | VLD       |
| Aspen                     | <i>Populus tremula</i>                         | R         |
| Selfheal                  | <i>Prunella vulgaris</i>                       | R         |
| Wild Cherry               | <i>Prunus avium</i>                            | R         |
| Blackthorn                | <i>Prunus spinosa</i>                          | LA        |
| Meadow Buttercup          | <i>Ranunculus acris</i>                        | R         |
| Creeping Buttercup        | <i>Ranunculus repens</i>                       | R         |
| Red Currant               | <i>Ribes rubrum</i>                            | R         |
| Flowering Currant         | <i>Ribes sanguineum</i>                        | R         |
| False-acacia              | <i>Robinia pseudoacacia</i>                    | R         |

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| Common name         | Scientific name              | Abundance |
|---------------------|------------------------------|-----------|
| Field Rose          | <i>Rosa arvensis</i>         | LF        |
| Dog Rose            | <i>Rosa canina</i> agg.      | LA        |
| Dewberry            | <i>Rubus caesius</i>         | LA        |
| Bramble             | <i>Rubus fruticosus</i> agg. | LD        |
| Curled Dock         | <i>Rumex crispus</i>         | R         |
| Broad-Leaved Dock   | <i>Rumex obtusifolius</i>    | R         |
| Wood Dock           | <i>Rumex sanguineus</i>      | R         |
| Goat Willow         | <i>Salix caprea</i>          | A         |
| Grey Willow         | <i>Salix cinerea</i>         | LD        |
| Crack Willow        | <i>Salix fragilis</i>        | R         |
| Osier               | <i>Salix viminalis</i>       | R         |
| Elder               | <i>Sambucus nigra</i>        | O         |
| Whitebeam           | <i>Sorbus aria</i> agg.      | R         |
| Hedge Woundwort     | <i>Stachys sylvatica</i>     | R         |
| Gorse               | <i>Ulex europaeus</i>        | R         |
| Wych Elm            | <i>Ulmus glabra</i>          | O         |
| Ulmus minor agg.    | <i>Ulmus minor</i> agg.      | R         |
| English Elm         | <i>Ulmus procera</i>         | LA        |
| Common Nettle       | <i>Urtica dioica</i>         | R         |
| Germander Speedwell | <i>Veronica chamaedrys</i>   | R         |
| Bush Vetch          | <i>Vicia sepium</i>          | R         |
| Common Dog-Violet   | <i>Viola riviniana</i>       | R         |

Table 7. Species recorded in ephemeral/short perennial vegetation (including at Target notes 1, 4, 14, 17, 22 and 28)

| Common name           | Scientific name                | Abundance |
|-----------------------|--------------------------------|-----------|
| Yarrow                | <i>Achillea millefolium</i>    | O         |
| Agrimony              | <i>Agrimonia eupatoria</i>     | O         |
| Common Bent           | <i>Agrostis capillaris</i>     | LA        |
| Creeping Bent         | <i>Agrostis stolonifera</i>    | F         |
| Lady's-Mantle         | <i>Alchemilla mollis</i>       | R         |
| Meadow Foxtail        | <i>Alopecurus pratensis</i>    | R         |
| Scarlet Pimpernel     | <i>Anagallis arvensis</i>      | R         |
| Barren Brome          | <i>Anisantha sterilis</i>      | LA        |
| Sweet Vernal Grass    | <i>Anthoxanthum odoratum</i>   | LF        |
| Cow Parsley           | <i>Anthriscus sylvestris</i>   | R         |
| Parsley Piert         | <i>Aphanes arvensis</i> agg.   | LF        |
| Lesser Burdock        | <i>Arctium minus</i>           | R         |
| Thyme-Leaved Sandwort | <i>Arenaria serpyllifolia</i>  | R         |
| False Oat-Grass       | <i>Arrhenatherum elatius</i>   | LD        |
| Mugwort               | <i>Artemisia vulgaris</i>      | R         |
| Daisy                 | <i>Bellis perennis</i>         | LF        |
| False-Brome           | <i>Brachypodium sylvaticum</i> | R         |
| Quaking-Grass         | <i>Briza media</i>             | LA        |
| Soft-Brome            | <i>Bromus hordeaceus</i>       | O         |
| Butterfly-Bush        | <i>Buddleja davidii</i>        | R         |
| Cuckooflower          | <i>Cardamine pratensis</i>     | R         |
| Glaucous Sedge        | <i>Carex flacca</i>            | LA        |
| Hairy Sedge           | <i>Carex hirta</i>             | LF        |

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| Common name                | Scientific name                | Abundance |
|----------------------------|--------------------------------|-----------|
| False Fox-Sedge            | <i>Carex otrubae</i>           | R         |
| Carlina Thistle            | <i>Carlina vulgaris</i>        | R         |
| Fern-Grass                 | <i>Catapodium rigidum</i>      | O         |
| Common Knapweed            | <i>Centaurea nigra</i>         | R         |
| Common Centaury            | <i>Centaureum erythraea</i>    | LA        |
| Red Valerian               | <i>Centranthus ruber</i>       | R         |
| Common Mouse-Ear           | <i>Cerastium fontanum</i>      | LF        |
| Sticky Mouse-Ear           | <i>Cerastium glomeratum</i>    | O         |
| Rosebay Willowherb         | <i>Chamerion angustifolium</i> | R         |
| Creeping Thistle           | <i>Cirsium arvense</i>         | R         |
| Spear Thistle              | <i>Cirsium vulgare</i>         | R         |
| Wild Basil                 | <i>Clinopodium vulgare</i>     | R         |
| Hemlock                    | <i>Conium maculatum</i>        | R         |
| Field Bindweed             | <i>Convolvulus arvensis</i>    | R         |
| Hawthorn                   | <i>Crataegus monogyna</i>      | O         |
| Smooth Hawk's-Beard        | <i>Crepis capillaris</i>       | R         |
| Cock's-Foot                | <i>Dactylis glomerata</i>      | F         |
| Wild Carrot                | <i>Daucus carota</i>           | R         |
| Tufted Hair-Grass          | <i>Deschampsia caespitosa</i>  | R         |
| Wild Teasel                | <i>Dipsacus fullonum</i>       | R         |
| Great Willowherb           | <i>Epilobium hirsutum</i>      | R         |
| Broad-Leaved Willowherb    | <i>Epilobium montanum</i>      | R         |
| Hoary Willowherb           | <i>Epilobium parviflorum</i>   | LF        |
| Blue Fleabane              | <i>Erigeron acer</i>           | LF        |
| Common Stork's-Bill        | <i>Erodium cicutarium</i>      | R         |
| Common Whitlowgrass        | <i>Erophila verna</i>          | LF        |
| Eyebright                  | <i>Euphrasia</i>               | R         |
| Sheep's Fescue agg.        | <i>Festuca ovina</i> agg.      | LD        |
| Red Fescue                 | <i>Festuca rubra</i>           | O         |
| Cleavers                   | <i>Galium aparine</i>          | R         |
| Lady's Bedstraw            | <i>Galium verum</i>            | R         |
| Cut-Leaved Crane's-Bill    | <i>Geranium dissectum</i>      | F         |
| Shining Crane's-Bill       | <i>Geranium lucidum</i>        | R         |
| Dove's-Foot Crane's-Bill   | <i>Geranium molle</i>          | LF        |
| Herb-Robert                | <i>Geranium robertianum</i>    | R         |
| Herb Bennet                | <i>Geum urbanum</i>            | R         |
| Ground-Ivy                 | <i>Glechoma hederacea</i>      | LA        |
| Hogweed                    | <i>Heracleum sphondylium</i>   | R         |
| Yorkshire-Fog              | <i>Holcus lanatus</i>          | O         |
| Perforate St. John's-Wort  | <i>Hypericum perforatum</i>    | LA        |
| Ploughman's-Spikenard      | <i>Inula conyzae</i>           | R         |
| Hard Rush                  | <i>Juncus inflexus</i>         | R         |
| White Dead-Nettle          | <i>Lamium album</i>            | R         |
| Meadow Vetchling           | <i>Lathyrus pratensis</i>      | R         |
| Autumnal Hawkbit           | <i>Leontodon autumnalis</i>    | LF        |
| Lesser Hawkbit             | <i>Leontodon saxatilis</i>     | LF        |
| Oxeye Daisy                | <i>Leucanthemum vulgare</i>    | O         |
| Common Toadflax            | <i>Linaria vulgaris</i>        | R         |
| Fairy Flax                 | <i>Linum catharticum</i>       | R         |
| Common Bird's-Foot-Trefoil | <i>Lotus corniculatus</i>      | LF        |

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| Common name                       | Scientific name                  | Abundance |
|-----------------------------------|----------------------------------|-----------|
| Narrow-leaved Bird's-foot-trefoil | <i>Lotus tenuis</i>              | LA        |
| Honesty                           | <i>Lunaria annua</i>             | R         |
| Field Wood-Rush                   | <i>Luzula campestris</i>         | R         |
| Musk-Mallow                       | <i>Malva moschata</i>            | R         |
| Common Mallow                     | <i>Malva sylvestris</i>          | R         |
| Black Medick                      | <i>Medicago lupulina</i>         | LF        |
| Field Forget-Me-Not               | <i>Myosotis arvensis</i>         | F         |
| Changing Forget-Me-Not            | <i>Myosotis discolor</i>         | R         |
| Red Bartsia                       | <i>Odontites vernus</i>          | O         |
| Wild Marjoram                     | <i>Origanum vulgare</i>          | R         |
| Wild Parsnip                      | <i>Pastinaca sativa</i>          | O         |
| Bristly Oxtongue                  | <i>Picris echioides</i>          | R         |
| Mouse-Ear-Hawkweed                | <i>Pilosella officinarum</i>     | VLA       |
| Ribwort Plantain                  | <i>Plantago lanceolata</i>       | O         |
| Greater Plantain                  | <i>Plantago major</i>            | R         |
| Annual Meadow-Grass               | <i>Poa annua</i>                 | O         |
| Smooth Meadow-Grass               | <i>Poa pratensis</i>             | LF        |
| Rough Meadow-Grass                | <i>Poa trivialis</i>             | LF        |
| Creeping Cinquefoil               | <i>Potentilla reptans</i>        | LF        |
| Cowslip                           | <i>Primula veris</i>             | R         |
| Selfheal                          | <i>Prunella vulgaris</i>         | O         |
| Blackthorn                        | <i>Prunus spinosa</i>            | R         |
| Meadow Buttercup                  | <i>Ranunculus acris</i>          | O         |
| Bulbous Buttercup                 | <i>Ranunculus bulbosus</i>       | LF        |
| Creeping Buttercup                | <i>Ranunculus repens</i>         | O         |
| Weld                              | <i>Reseda luteola</i>            | O         |
| Field Rose                        | <i>Rosa arvensis</i>             | R         |
| Dog Rose                          | <i>Rosa canina</i> agg.          | R         |
| Dewberry                          | <i>Rubus caesius</i>             | R         |
| Bramble                           | <i>Rubus fruticosus</i> agg.     | R         |
| Common Sorrel                     | <i>Rumex acetosa</i>             | R         |
| Curled Dock                       | <i>Rumex crispus</i>             | O         |
| Broad-Leaved Dock                 | <i>Rumex obtusifolius</i>        | R         |
| Wood Dock                         | <i>Rumex sanguineus</i>          | R         |
| Annual pearlwort                  | <i>Sagina apetala</i>            | R         |
| Procumbent Pearlwort              | <i>Sagina procumbens</i>         | R         |
| Grey Willow                       | <i>Salix cinerea</i>             | R         |
| Biting Stonecrop                  | <i>Sedum acre</i>                | LA        |
| Common Ragwort                    | <i>Senecio jacobaea</i>          | R         |
| Field Madder                      | <i>Sherardia arvensis</i>        | R         |
| White Champion                    | <i>Silene latifolia</i>          | R         |
| Bladder Champion                  | <i>Silene vulgaris</i>           | R         |
| Prickly Sow-Thistle               | <i>Sonchus asper</i>             | R         |
| Common Comfrey                    | <i>Symphytum officinale</i>      | R         |
| Dandelion                         | <i>Taraxacum officinale</i> agg. | R         |
| Hop Trefoil                       | <i>Trifolium campestre</i>       | O         |
| Lesser Trefoil                    | <i>Trifolium dubium</i>          | R         |
| Goat's-Beard                      | <i>Tragopogon pratensis</i>      | R         |
| Red Clover                        | <i>Trifolium pratense</i>        | R         |
| White Clover                      | <i>Trifolium repens</i>          | R         |

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| Common name            | Scientific name                  | Abundance |
|------------------------|----------------------------------|-----------|
| Scentsless Mayweed     | <i>Tripleurospermum inodorum</i> | R         |
| Colt's-Foot            | <i>Tussilago farfara</i>         | R         |
| Common Cornsalad       | <i>Valerianella locusta</i>      | R         |
| Great Mullein          | <i>Verbascum thapsus</i>         | R         |
| Germander Speedwell    | <i>Veronica chamaedrys</i>       | LA        |
| Common Field-Speedwell | <i>Veronica persica</i>          | R         |
| Thyme-Leaved Speedwell | <i>Veronica serpyllifolia</i>    | O         |
| Common Vetch           | <i>Vicia sativa</i>              | R         |
| Sweet Violet           | <i>Viola odorata</i>             | R         |

Table 8. Species recorded in marsh and swamp (including at Target note 15, 19, 22, 23 and 29)

| Common name                    | Scientific name                  | Abundance |
|--------------------------------|----------------------------------|-----------|
| Creeping Bent                  | <i>Agrostis stolonifera</i>      | LA        |
| Alder                          | <i>Alnus glutinosa</i>           | R         |
| Fools watercress               | <i>Apium nodiflorum</i>          | R         |
| Wood Small-reed                | <i>Calamagrostis epigejos</i>    | R         |
| Hedge bindweed                 | <i>Calystegia sepium</i>         | R         |
| Wavy Bitter-Cress              | <i>Cardamine flexuosa</i>        | R         |
| Cuckooflower                   | <i>Cardamine pratensis</i>       | R         |
| Lesser Pond-Sedge              | <i>Carex acutiformis</i>         | VLA       |
| Glaucous Sedge                 | <i>Carex flacca</i>              | LF        |
| Hairy Sedge                    | <i>Carex hirta</i>               | LF        |
| False Fox-Sedge                | <i>Carex otrubae</i>             | R         |
| Carnation Sedge                | <i>Carex panicea</i>             | R         |
| Pendulous Sedge                | <i>Carex pendula</i>             | O         |
| Marsh Thistle                  | <i>Cirsium palustre</i>          | R         |
| Southern Marsh-Orchid          | <i>Dactylorhiza praetermissa</i> | LF        |
| Tufted Hair-Grass              | <i>Deschampsia caespitosa</i>    | R         |
| Common Spike-Rush              | <i>Eleocharis palustris</i>      | VLF       |
| Great Willowherb               | <i>Epilobium hirsutum</i>        | R         |
| Hoary Willowherb               | <i>Epilobium parviflorum</i>     | R         |
| Field Horsetail                | <i>Equisetum arvense</i>         | LF        |
| Tall Fescue                    | <i>Festuca arundinacea</i>       | R         |
| Meadow Fescue                  | <i>Festuca pratensis</i>         | LF        |
| Common Marsh-Bedstraw          | <i>Galium palustre</i>           | R         |
| Yorkshire-Fog                  | <i>Holcus lanatus</i>            | O         |
| Square-Stalked St. John's-Wort | <i>Hypericum tetrapterum</i>     | R         |
| Yellow Iris                    | <i>Iris pseudacorus</i>          | LF        |
| Sharp-flowered Rush            | <i>Juncus acutiflorus</i>        | R         |
| Jointed Rush                   | <i>Juncus articulatus</i>        | LA        |
| Toad Rush agg.                 | <i>Juncus bufonius</i> agg.      | O         |
| Compact Rush                   | <i>Juncus conglomeratus</i>      | R         |
| Soft Rush                      | <i>Juncus effusus</i>            | R         |
| Hard Rush                      | <i>Juncus inflexus</i>           | LA        |
| Gipsywort                      | <i>Lycopus europaeus</i>         | LF        |
| Creeping-Jenny                 | <i>Lysimachia nummularia</i>     | R         |
| Purple loosestrife             | <i>Lythrum salicaria</i>         | R         |
| Water Mint                     | <i>Mentha aquatica</i>           | LA        |
| Water Forget-Me-Not            | <i>Myosotis scorpioides</i>      | LA        |

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| Common name        | Scientific name                 | Abundance |
|--------------------|---------------------------------|-----------|
| Amphibious Bistort | <i>Persicaria amphibia</i>      | O         |
| Redshank           | <i>Persicaria maculosa</i>      | R         |
| Reed Canary-Grass  | <i>Phalaris arundinacea</i>     | VLF       |
| Common Reed        | <i>Phragmites australis</i>     | VLA       |
| Silverweed         | <i>Potentilla anserina</i>      | R         |
| Common Fleabane    | <i>Pulicaria dysenterica</i>    | R         |
| Lesser Spearwort   | <i>Ranunculus flammula</i>      | VLA       |
| Curled Dock        | <i>Rumex crispus</i>            | R         |
| White Willow       | <i>Salix alba</i>               | R         |
| Goat Willow        | <i>Salix caprea</i>             | O         |
| Grey Willow        | <i>Salix cinerea</i>            | LF        |
| Crack Willow       | <i>Salix fragilis</i>           | R         |
| Osier              | <i>Salix viminalis</i>          | R         |
| Common Club-rush   | <i>Schoenoplectus lacustris</i> | R         |
| Water Figwort      | <i>Scrophularia auriculata</i>  | R         |
| Bittersweet        | <i>Solanum dulcamara</i>        | R         |
| Bulrush            | <i>Typha latifolia</i>          | VLF       |
| Brooklime          | <i>Veronica beccabunga</i>      | R         |
| Tufted Vetch       | <i>Vicia cracca</i>             | R         |
| Common vetch       | <i>Vicia sativa</i>             | R         |

Table 9. Species recorded in ponds (including at Target Notes 12, 18, 25 and 27)

| Common name           | Scientific name                 | Abundance |
|-----------------------|---------------------------------|-----------|
| Water-Plantain        | <i>Alisma plantago-aquatica</i> | R         |
| Alder                 | <i>Alnus glutinosa</i>          | R         |
| Pendulous Sedge       | <i>Carex pendula</i>            | R         |
| Stonewort species     | <i>Chara</i>                    | LA        |
| Marsh Thistle         | <i>Cirsium palustre</i>         | R         |
| New Zealand Pigmyweed | <i>Crassula helmsii</i>         | R         |
| Galingale             | <i>Cyperus longus</i>           | R         |
| Tufted Hair-Grass     | <i>Deschampsia caespitosa</i>   | R         |
| Common Spike-Rush     | <i>Eleocharis palustris</i>     | VLF       |
| Nuttall's Waterweed   | <i>Elodea nuttallii</i>         | P         |
| Great Willowherb      | <i>Epilobium hirsutum</i>       | R         |
| Hoary Willowherb      | <i>Epilobium parviflorum</i>    | R         |
| Common Marsh-Bedstraw | <i>Galium palustre</i>          | R         |
| Mare's-tail           | <i>Hippuris vulgaris</i>        | O         |
| Yellow Iris           | <i>Iris pseudacorus</i>         | O         |
| Jointed Rush          | <i>Juncus articulatus</i>       | LA        |
| Toad Rush agg.        | <i>Juncus bufonius</i> agg.     | O         |
| Soft Rush             | <i>Juncus effusus</i>           | R         |
| Hard Rush             | <i>Juncus inflexus</i>          | LA        |
| Curly Waterweed       | <i>Lagarosiphon major</i>       | P         |
| Common Duckweed       | <i>Lemna minor</i>              | R         |
| Gipsywort             | <i>Lycopus europaeus</i>        | LA        |
| Creeping-Jenny        | <i>Lysimachia nummularia</i>    | R         |
| Water Mint            | <i>Mentha aquatica</i>          | LF        |
| Water Forget-Me-Not   | <i>Myosotis scorpioides</i>     | LF        |
| Yellow Water-Lily     | <i>Nuphar lutea</i>             | LF        |

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| Common name          | Scientific name                       | Abundance |
|----------------------|---------------------------------------|-----------|
| Redshank             | <i>Persicaria maculosa</i>            | R         |
| Common Reed          | <i>Phragmites australis</i>           | VLA       |
| Pondweed species     | <i>Potamogeton</i>                    | P         |
| Common Fleabane      | <i>Pulicaria dysenterica</i>          | R         |
| Water Crowfoot       | <i>Ranunculus</i>                     | P         |
| Lesser Spearwort     | <i>Ranunculus flammula</i>            | R         |
| Goat Willow          | <i>Salix caprea</i>                   | O         |
| Grey Willow          | <i>Salix cinerea</i>                  | LF        |
| Crack Willow         | <i>Salix fragilis</i>                 | R         |
| Osier                | <i>Salix viminalis</i>                | R         |
| Common Club-Rush     | <i>Schoenoplectus lacustris</i>       | LA        |
| Grey Club-rush       | <i>Schoenoplectus tabernaemontani</i> | R         |
| Water Figwort        | <i>Scrophularia auriculata</i>        | R         |
| Bulrush              | <i>Typha latifolia</i>                | VLD       |
| Blue Water-Speedwell | <i>Veronica anagallis-aquatica</i>    | R         |
| Brooklime            | <i>Veronica beccabunga</i>            | R         |

### APPENDIX 5: PROTECTED AND NOTABLE SPECIES

This is a summary list of the protected and notable species records for the site held by TVERC (July 2018). It does not include the species recorded during the second site visit carried in July 2018 as the data extract from which it was produced pre-dates the survey.

Table 10. Protected and notable species records from Stratton Audley Quarry

| Taxon Group | Taxon Name                        | Common Name          | Status   | Last Year |
|-------------|-----------------------------------|----------------------|--|-----------|
| Amphibians  | <i>Lissotriton vulgaris</i>       | Smooth Newt          | WACA-Sch5-s9.5a  | 2009      |
| Amphibians  | <i>Rana temporaria</i>            | Common Frog          | HabDir-A5<br>WACA-Sch5-s9.5a   | 2008      |
| Amphibians  | <i>Triturus cristatus</i>         | Great Crested Newt   | HabDir-A2np, HabDir-A4<br>HabReg-Sch2, WACA-Sch5-<br>s9.4b/s9.4c/s9.5a<br>NERC-S41 | 2009      |
| Birds       | <i>Actitis hypoleucos</i>         | Common Sandpiper     | Bird-Amber   | 2008      |
| Birds       | <i>Alauda arvensis</i>            | Skylark              | NERC-S41; Bird-Red   | 2009      |
| Birds       | <i>Alcedo atthis</i>              | Kingfisher           | BirdsDir-A1<br>WACA-Sch1-p1<br>Bird-Amber  | 2008      |
| Birds       | <i>Anas platyrhynchos</i>         | Mallard              | Bird-Amber   | 2008      |
| Birds       | <i>Apus apus</i>                  | Swift                | Bird-Amber   | 2009      |
| Birds       | <i>Charadrius dubius</i>          | Little Ringed Plover | WACA-Sch1-p1   | 2009      |
| Birds       | <i>Chlidonias niger</i>           | Black Tern           | BirdsDir-A1<br>WACA-Sch1-p1  | 1996      |
| Birds       | <i>Chroicocephalus ridibundus</i> | Black-headed Gull    | Bird-Amber   | 2009      |
| Birds       | <i>Columba oenas</i>              | Stock Dove           | Bird-Amber   | 2009      |
| Birds       | <i>Cygnus olor</i>                | Mute Swan            | Bird-Amber   | 2003      |
| Birds       | <i>Emberiza citrinella</i>        | Yellowhammer         | NERC-S41; Bird-Red   | 2009      |
| Birds       | <i>Emberiza schoeniclus</i>       | Reed Bunting         | NERC-S41; Bird-Amber   | 2009      |
| Birds       | <i>Falco tinnunculus</i>          | Kestrel              | Bird-Amber   | 2009      |
| Birds       | <i>Gallinago gallinago</i>        | Snipe                | Bird-Amber   | 2008      |

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| Taxon Group                                  | Taxon Name                                | Common Name                       | Status   | Last Year |
|--|---|-----------------------------------|--|-----------|
| Birds  | <i>Larus fuscus</i>                       | Lesser Black-backed Gull          | Bird-Amber                                       | 2009      |
| Birds  | <i>Linaria cannabina</i>                  | Linnet                            | NERC-S41; Bird-Red                               | 2009      |
| Birds  | <i>Motacilla cinerea</i>                  | Grey Wagtail                      | Bird-Red   | 2009      |
| Birds  | <i>Passer domesticus</i>                  | House Sparrow                     | NERC-S41; Bird-Red                               | 2009      |
| Birds  | <i>Perdix perdix</i>                      | Grey Partridge                    | NERC-S41; Bird-Red                               | 2008      |
| Birds  | <i>Phylloscopus trochilus</i>             | Willow Warbler                    | Bird-Amber                                       | 2003      |
| Birds  | <i>Poecile palustris</i>                  | Marsh Tit                         | NERC-S41; Bird-Red                               | 2003      |
| Birds  | <i>Prunella modularis</i>                 | Dunnock                           | NERC-S41; Bird-Amber                             | 2009      |
| Birds  | <i>Pyrrhula pyrrhula</i>                  | Bullfinch                         | NERC-S41; Bird-Amber                             | 2009      |
| Birds  | <i>Sterna hirundo</i>                     | Common Tern                       | BirdsDir-A1; Bird-Amber                          | 2009      |
| Birds  | <i>Streptopelia turtur</i>                | Turtle Dove                       | NERC-S41; Bird-Red                               | 2008      |
| Birds  | <i>Sturnus vulgaris</i>                   | Starling                          | NERC-S41; Bird-Red                               | 2009      |
| Birds  | <i>Tringa ochropus</i>                    | Green Sandpiper                   | WACA-Sch1-p1<br>Bird-Amber                       | 2008      |
| Birds  | <i>Tringa totanus</i>                     | Redshank                          | Bird-Amber                                       | 2009      |
| Birds  | <i>Turdus philomelos</i>                  | Song Thrush                       | NERC-S41; Bird-Red                               | 2009      |
| Birds  | <i>Vanellus vanellus</i>                  | Lapwing                           | NERC-S41; Bird-Red                               | 2009      |
| Higher Plants - Flowering Plants             | <i>Arabis hirsuta</i>                     | Hairy Rock-cress                  | Oxon-Scarce, RL-Eng-post2001-NT                  | 2009      |
| Higher Plants - Flowering Plants             | <i>Briza media</i>                        | Quaking-grass                     | RL-Eng-post2001-NT                               | 2018      |
| Higher Plants - Flowering Plants             | <i>Cyperus longus</i>                     | Galingale                         | Status-NS, RL-Eng-post2001-NT, RL-GB-post2001-NT | 2018      |
| Higher Plants - Flowering Plants             | <i>Euphrasia nemorosa</i>                 | Eyebright                         | RL-Eng-post2001-NT                               | 2006      |
| Higher Plants - Flowering Plants             | <i>Hyacinthoides non-scripta</i>          | Bluebell                          | WACA-Sch8  | 2009      |
| Higher Plants - Flowering Plants             | <i>Juncus bulbosus</i>                    | Bulbous Rush                      | Oxon-Rare  | 2008      |
| Higher Plants - Flowering Plants             | <i>Knautia arvensis</i>                   | Field Scabious                    | RL-Eng-post2001-NT                               | 2008      |
| Higher Plants - Flowering Plants             | <i>Lotus tenuis</i>                       | Narrow-leaved Bird's-foot-trefoil | Oxon-Scarce                                      | 2018      |
| Higher Plants - Flowering Plants             | <i>Mentha arvensis</i>                    | Corn Mint                         | RL-Eng-post2001-NT                               | 2008      |
| Higher Plants - Flowering Plants             | <i>Polemonium caeruleum</i>               | Jacob's-ladder                    | Status-NR  | 2009      |
| Higher Plants - Flowering Plants             | <i>Potentilla anglica</i>                 | Trailing Tormentil                | Oxon-Scarce                                      | 2009      |
| Higher Plants - Flowering Plants             | <i>Ranunculus flammula</i>                | Lesser Spearwort                  | RL-Eng-post2001-VU                               | 2018      |
| Higher Plants - Flowering Plants             | <i>Schoenoplectus tabernaemontani</i>     | Grey Club-rush                    | Oxon-Rare  | 2018      |
| Higher Plants - Flowering Plants             | <i>Senecio aquaticus</i>                  | Marsh Ragwort                     | RL-Eng-post2001-NT                               | 1987      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | <i>Andrena (Andrena) varians</i>          | Backthorn Mining Bee              | Notable-B  | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | <i>Halictus (Seladonia) confusus</i>      | Southern Bronze Furrow Bee        | RL-GB-pre94-R                                    | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | <i>Lasioglossum (Dialictus) leucopus</i>  | White-footed Furrow Bee           | RL-GB-pre94-R                                    | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | <i>Lasioglossum (Evylaeus) malachurum</i> | Sharp-collared Furrow Bee         | Notable-B  | 2003      |

Julie Kerans, Oxfordshire Biodiversity Officer  
2018

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| Taxon Group                                  | Taxon Name                              | Common Name               | Status   | Last Year |
|--|---|---------------------------|--|-----------|
| Invertebrates - Ants, Bees, Sawflies & Wasps | Lasioglossum (Evylaeus) pauxillum       | Lobe-spurred Furrow Bee   | Notable-A  | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | Lasioglossum (Lasioglossum) xanthopus   | Orange-footed Furrow Bee  | Notable-B  | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | Osmia (Neosmia) bicolor                 | Red-tailed Mason Bee      | Notable-B  | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | Sphecodes crassus                       | Swollen-thighed Blood Bee | Notable-B  | 2003      |
| Invertebrates - Ants, Bees, Sawflies & Wasps | Tiphia minuta                           | Small Tiphia              | Notable-B  | 2003      |
| Invertebrates - Beetles                      | Bembidion (Diplocampa) clarkii          | A Beetle                  | Notable-B  | 2000      |
| Invertebrates - Beetles                      | Brachinus (Brachinus) crepitans         | Bombadier Beetle          | Notable-B  | 1988      |
| Invertebrates - Beetles                      | Cryptocephalus aureolus                 | A Beetle                  | Notable-B  | 2004      |
| Invertebrates - Beetles                      | Haploglossa picipennis                  | A Beetle                  | Notable  | 2000      |
| Invertebrates - Beetles                      | Lebia (Lamprias) chlorocephala          | A Beetle                  | Notable-B  | 1991      |
| Invertebrates - Beetles                      | Microplontus campestris                 | A Beetle                  | Notable-B  | 2004      |
| Invertebrates - Beetles                      | Ophonus (Ophonus) azureus               | A Beetle                  | Notable-B  | 1988      |
| Invertebrates - Beetles                      | Pterostichus (Pseudomaseus) anthracinus | A Beetle                  | Notable-B  | 1988      |
| Invertebrates - Butterflies                  | Coenonympha pamphilus                   | Small Heath               | NERC-S41<br>RL-GB-post2001-NT                    | 2018      |
| Invertebrates - Butterflies                  | Cupido minimus                          | Small Blue                | WACA-Sch5-s9.5a<br>NERC-S41<br>RL-GB-post2001-NT | 2002      |
| Invertebrates - Butterflies                  | Erynnis tages                           | Dingy Skipper             | NERC-S41<br>RL-GB-post2001-VU                    | 2018      |
| Invertebrates - Butterflies                  | Lasiommata megera                       | Wall                      | NERC-S41<br>RL-GB-post2001-NT                    | 2004      |
| Invertebrates - Butterflies                  | Pyrgus malvae                           | Grizzled Skipper          | NERC-S41<br>RL-GB-post2001-VU                    | 2018      |
| Invertebrates - Moths                        | Chiasmia clathrata                      | Latticed Heath            | NERC-S41   | 1986      |
| Invertebrates - Moths                        | Tyria jacobaeae                         | Cinnabar                  | NERC-S41   | 2008      |
| Invertebrates - True Bugs                    | Macropsis glandacea                     | A True Bug                | Notable-B, RL-GB-pre94-Insu                      | 1986      |
| Lower Plants - Stonewort                     | Chara globularis                        | Fragile Stonewort         | Oxon-Scarce                                      | 2008      |
| Lower Plants - Stonewort                     | Chara hispida                           | Bristly Stonewort         | Oxon-Scarce                                      | 2008      |
| Mammals - Terrestrial                        | Lepus europaeus                         | Brown Hare                | NERC-S41   | 2004      |
| Mammals - Terrestrial                        | Meles meles                             | Eurasian Badger           | Badgers-1992                                     | 2008      |
| Reptiles                                     | Natrix helvetica                        | Grass Snake               | WACA-Sch5-s9.1k/s9.5a<br>NERC-S41                | 1991      |