20.0 STONE CROSS SITES





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

October 2016 11124101_Ecology Figures_17-10-16.indd

FIGURE 23.1 STONE CROSS: SITE LOCATIONS & CONTEXT





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL



| ECOLOGICAL ASSESSMENT | | | | |
|------------------------|--|--|--|--|
| Settlement/Area: | Stone Cross | | | |
| Site Address: | Intercon Scaffolding Yard and Adjoining Land at Langsett, Rattle Road, Stone Cross | | | |
| Site Reference Number: | 083/3280 | | | |

Site Summary Description

A 0.32ha Industrial yard with associated sheds and other buildings. There are mature oak and ash trees on the eastern boundary and Lombardy poplars on the southern boundary. Also includes areas of tall ruderal and ephemeral/short perennial.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site lies just to the north of Rattle Road, on the eastern outskirts of Stone Cross. Residential development lies to the west and east, whilst the north of the Site opens out onto hedge-lined fields with the A27 just a little further to the north.

| The Site lies approximately 1.2km south west to the nearest point of the 1 Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below: Pevensey Levels SAC: Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i>. Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides</i>, flat-stalked pondweed <i>Potamogeton friesii</i>, the pondweed <i>Potamogeton trichoides</i>, greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis</i>, whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi</i>, water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis</i>. An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the | 1.2km North the Site. | East o | of |
|---|--------------------------|--------|----|
| supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera A ramshorn snail Segmenting nitida | | | |

| (RDB: Endangered), is four vegetation. Particularly widesp, snail Valvata macrostoma (RDE beetle recorded at the Site, the in areas of permanent pasture. beetle, the great silver water be is found only on grazed level importance is Bagous punctico. Level and several nationally rabrown Hydrovatus clypealis (REngland. Over fifteen species of including the nationally scarce and variable damselfly Coena, Britain's only known location large leech One of Britain's raft spider) (RDB: Endangeree national importance for its vexceed 1% of the total British gallinago may also be of nationally rane of local s importance. Sedge warblers warblers Acrocephalus scirpace The Site also supports about Motacilla flava in Sussex. Pevensey Levels Ramsar: Pevel fragmented lowland wet grassl lying grazing meadows are in which support a variety of nationally rare and scarce aqu supports a notable assemblage area of shingle and intertidal the Site supports an outstan invertebrates including many supports 68% of vascular pl described as aquatic. It is pro molluscs, one of the five bes supports an outstanding assemblage | nd in well-oxygenated drains with lush read and abundant on this Site is an aquatic 8: Vulnerable). Of the many species of water most interesting are confined to the ditches Of particular interest is Britain's largest water eetle Hydrophilus piceus (RDB: Rare) which his in the southern part of Britain. Also of llis (RDB: Endangered), found on Horse Eye re water beetles such as the small reddish- DB: Rare) confined to the coast of southern of dragonfly (Odonata) have been recorded species, hairy dragonfly Brachytron pratense grion pulchellum. Survey has also revealed of Placobdella costata (provisional RDB), a largest spiders Dolomedes plantarius (great d) has also been recorded. The Site is of vintering lapwing Vanellus vanellus which population. The numbers of snipe Gallinago onal importance Wintering golden plover ignificance and in some years are of national Acrocephalus schoenobaenus and reed eus breed in numbers of local significance. one fifth of the breeding yellow wagtails ensey Levels is one of the largest and least- and systems in southeast England. The low- netersected by a complex system of ditches important wetland communities, including uatic plants and invertebrates. The Site also of breeding and wintering wildfowl. A small muds and sands is included within the Site. nding assemblage of wetland plants and British Red Data Book species. The Site ant species in Great Britain that can be bably the best Site in Britain for freshwater st sites for aquatic beetles Coleoptera and plage of dragonflies Odonata. | |
|--|---|---|
| Desk Study: BAP Priority Habitats | within 1km | Distance from Site |
| Ancient & semi-natural woodla Coastal & floodplain grazing m Orchard BAP priority habitat – | nd – Pickens Wood arsh BAP priority habitat – un-named un-named | 650m West450m East640m East |
| Desk Study: Protected and Notabl | e Species within 1km | |
| Protected Species Anguis fragilis Pipistrellus sp. Triturus cristatus Zootoca vivipara Sussex BAP Species Erinaceus europaeus Oenanthe fistulosa | Slow worm Pipistrelle sp. bat Great crested newt Common lizard European hedgehog Tubular Water-dropwort | |
| | 830 | Wealden Local Plan Sites |

Wealden Local Plan Sites Landscape & Ecological Assessment Study

| Sussex Rare Species Inventory | | | | |
|---|-----------------------------|--|--|--|
| Hydrocharis morsus-ranae | Frogbit | | | |
| | | | | |
| Notable Bird Inventory | | | | |
| Alcedo atthis | Kingfisher | | | |
| Ardea cinerea | Grey heron | | | |
| Cettia cetti | Cetti's warbler | | | |
| Falco subbuteo | Hobby | | | |
| Gallinago gallinago | Snipe | | | |
| Tyto alba | Barn owl | | | |
| Vanellus vanellus | Lapwing | | | |
| | | | | |
| Invasive Alien Species Inventory | | | | |
| Centranthus ruber | Red valerian | | | |
| Cotoneaster horizontalis | Wall cotoneaster | | | |
| Crocosmia pottsii x aurea = C. x crocosmiiflora | Montbretia | | | |
| Elodea nuttallii | Nuttall's Water-Weed | | | |
| Hyacinthoides hispanica | Spanish Bluebell | | | |
| Lamiastrum galeobdolon subsp. Argentatum | Variegated yellow archangel | | | |
| Rosa rugosa | Japanese rose | | | |
| Field Summer Helitet Descriptions (See Figure 22/092) | | | | |

Tall Ruderal & Ephemeral/Short Perennial – There is a relatively large stand of mostly nettle in the southern part of the Site. This grades into more open ephemeral/short perennial vegetation where there is disturbance from vehicles. Smaller patches of similar vegetation are scattered throughout the Site, for example along boundaries and beside buildings.

Mature trees – includes oak and ash trees on the eastern boundary and Lombardy poplars on the southern boundary.

Buildings – largely sheds.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

Indian balsam – in woodland beside streams and among adjoining scrub

Assessment of Potential for Protected and Notable Species Presence

Great crested newts – There are no ponds within the Site. OS maps indicate the presence of a pond or ponds to the south of Rattle Road, approximately 330-450 south east of the Site, although there may be ponds among residential areas closer to the Site. Given the distance to the pond(s) and the presence of the Rattle Road, which represents a significant barrier to dispersal for great crested newts, as well as the limited suitable terrestrial habitat for great crested newts within the Site, the probability of their being present is considered very low.

Reptiles –Limited potential among ruderal vegetation.

Breeding birds – In trees.

Bats – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation and hedgerows have potential to be used as roosts. The buildings appear to have low potential for bats. Activity, including foraging and commuting, is likely throughout but especially along hedges.

Recommendations for Further Survey (and optimal survey timings)

Reptiles – (May – June, September – October) in suitable habitat.

Bats – (inspections: year round; activity surveys April – October) in the first instance inspection of trees to determine the scope for further survey

INDICATIVE ECOLOGICAL APPRAISAL

Low – largely hard standing and buildings with some ruderal vegetation. The mature trees, especially the oaks and ashes have the greatest value. The habitats and features have low potential to support protected species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining the mature trees, especially the oak and ash, and their features.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest;
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents.
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- Buffer the mature trees, especially to oak and ash, and their features.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, including the hedges and mature trees.
- Strengthen boundary vegetation, for example by planting appropriate native species to form hedges.
- Habitat creation, ideally located adjacent to retained or adjoining habitat to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bat boxes suitable for a range of bat species, on retained trees or incorporated into buildings where they will remain unlit.
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





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October 2016 11124101_Ecology Figures_17-10-16.indd

KEY

Site Assessment Boundary

Broadleaved Tree

Tall Ruderal

 $\begin{array}{c} \overset{\mathsf{K}\times\mathsf{X}\times\mathsf{X}}{\mathsf{K}\times\mathsf{X}\times\mathsf{X}} \end{array}$ Ephemeral/Short Perennial



FIGURE 23/083 STONE CROSS - Site Ref 083/3280 - PHASE 1 HABITAT PLAN

| ECOLOGICAL ASSESSMENT | | |
|--------------------------|---|--|
| Settlement/Area: | Stone Cross | |
| Site Address: | Land to the East of Golden Jubilee Way, Stone Cross | |
| Site Reference number: | 109/1620 | |
| Site Summery Description | | |

Site Summary Description

A relatively large, 19.09ha, Site comprising largely of species-poor grassland on gently sloping ground. However, it also includes areas of marshy grassland or swamp vegetation in the flat, lower southern part of the Site, as well as hedges, trees and scrub and ditches and a pond.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site lies to the south of the main settlement and is bordered to the north by a wooded disused railway line. The eastern boundary is formed by a live railway line and to the west by the A22 Golden Jubilee Way, leaving little by way of connectivity with the grazing marsh that lies further to the west.

| Desk Study: Designated Sites within 1km (See Figure 23.2) | Distance from Site |
|--|--|
| Desk Study: Designated Sites within 1km (See Figure 23.2) The Site lies approximately 2.3km south west to the nearest point of Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citation set out below: Pevensey Levels SAC: Comprising inland water be (Standing water, Running water) (2.5%) and humid grassland, Meso grassland (97.5%). The SAC is designated for its Annex II populati Ramshorn snail <i>Anisus vorticulus</i>. Anisus vorticulus occurs across a rar sites in southern and eastern England. Pevensey Levels is a large expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a spatial distribution and in good population density classes. Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying gr meadows intersected by a complex system of ditches which show a variety of form and species composition and support impromunities of wetland flora and fauna. The Site supports the natio rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several natio scarce aquatic plants including watersoldier <i>Stratiotes aloides</i>, flat-st pondweed <i>Potamogeton friesii</i>, the pondweed <i>Potamogeton triche</i> greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oen fluviatilis</i>, whose presence are largely the result of ditch management and in the state of the time. If the produce of the set of the time. | Distance from Site of the sare oddes 2.3km to the North East of the Site ophile on of nge of e and wide and wide razing wide ortant onally onally alked oides, anthe ent to ariety triangle of the same of |
| of plants such as the nationally scarce marshmallow Althaea officina | alis as |
| well as more widespread species such as ragged robin Lychnis flos-c | uculi, |
| water mint Mentha aquatica and cuckoo flower Cardamine pratensi | is. An |
| area of shingle and intertidal muds and sands is included within the | e Site |
| and although the shingle is largely bereft of vegetation it does suppo | rt the |
| supports outstanding invertebrate populations and is a top national Si | ite for |
| Molluscs and aquatic Coleoptera A ramshorn snail Segmentina | nitida |

| Desk Study: BAP Priority Habitats within 1km Distance from Site • Ancient & semi-natural woodland – The Dell • 425m North • Ancient & semi-natural woodland – Drockmill Hill Shaw • 425m North • Ancient & semi-natural woodland – Pickens Wood • 600m North East • Coastal & floodplain grazing marsh BAP priority habitat – un-named • Within Site a immediately adjacent to West and South. Desk Study: Protected and Notable Species within 1km Protected Species Protected Species Slow worm Pipistrellus nathusii Nathusius's Pipistrelle bat Pipistrellus pipistrellus Common Pipistrelle (45 kHz) bat Pipistrellus sp. Pipistrelle sp. bat | (NDD). Entangeled), is found in we vegetation. Particularly widespread and a snail Valvata macrostoma (RDB: Vulnerab beetle recorded at the Site, the most inter in areas of permanent pasture. Of particula beetle, the great silver water beetle Hydro is found only on grazed levels in the simportance is Bagous puncticollis (RDB: RDP). Level and several nationally rare water b brown Hydrovatus clypealis (RDB: Rare) England. Over fifteen species of dragonfly including the nationally scarce species, ha and variable damselfly Coenagrion pulch Britain's only known location of Placobod large leech One of Britain's largest sport spitcer in portance for its wintering la exceed 1% of the total British population gallinago may also be of national import Pluvialis apricaria are of local significance importance. Sedge warblers Acroceph warblers Acrocephalus scirpaceus breed The Site also supports about one fifth Motacilla flava in Sussex. Pevensey Levels Ramsar: Pevensey Level fragmented lowland wet grassland system lying grazing meadows are intersected which support a variety of important nationally rare and scarce aquatic plants supports a notable assemblage of breeding area of shingle and intertidal muds and scarce supports of supports an outstanding assemblage of dragona sup | Il-oxygenated drains with lush bundant on this Site is an aquatic ole). Of the many species of water resting are confined to the ditches ar interest is Britain's largest water ophilus piceus (RDB: Rare) which southern part of Britain. Also of Endangered), found on Horse Eye peetles such as the small reddish- confined to the coast of southern y (Odonata) have been recorded hiry dragonfly Brachytron pratense hellum. Survey has also revealed lella costata (provisional RDB), a iders Dolomedes plantarius (great o been recorded. The Site is of apwing Vanellus vanellus which . The numbers of snipe Gallinago ance Wintering golden plover and in some years are of national alus schoenobaenus and reed d in numbers of local significance. of the breeding yellow wagtails s is one of the largest and least- ns in southeast England. The low- by a complex system of ditches wetland communities, including and invertebrates. The Site also g and wintering wildfowl. A small sands is included within the Site. emblage of wetland plants and ed Data Book species. The Site s in Great Britain for freshwater aquatic beetles Coleoptera and gonflies Odonata. | |
|--|--|---|--|
| Ancient & semi-natural woodland – The Dell Ancient & semi-natural woodland – Drockmill Hill Shaw Ancient & semi-natural woodland – Pickens Wood Coastal & floodplain grazing marsh BAP priority habitat – un-named Within Site a immediately adjacent to West and South. Desk Study: Protected and Notable Species within 1km Protected Species Anguis fragilis Slow worm Pipistrellus nathusii Pipistrellus nathusii Pipistrellus pipistrellus Common Pipistrelle bat Pipistrellus sp. Pipistrellus sp. | Desk Study: BAP Priority Habitats within 1km | n | Distance from Site |
| Desk Study: Protected and Notable Species within 1kmProtected SpeciesAnguis fragilisPipistrellus nathusiiPipistrellus nathusiiNathusius's Pipistrelle batPipistrellus pipistrellusCommon Pipistrelle (45 kHz) batPipistrellus sp.Pipistrellus p. bat | Ancient & semi-natural woodland – The D Ancient & semi-natural woodland – Drock Ancient & semi-natural woodland – Picker Coastal & floodplain grazing marsh BAP p | eell smill Hill Shaw ns Wood riority habitat – un-named | 425m North 775m North 600m North East Within Site and immediately adjacent to the |
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| Triturus cristatus Great crested newt 835 Wealden Local Plan | Desk Study: Protected and Notable Species w | vithin 1km | West and South. |

11124101R_WLPS_FinalV2_DW_26-07-2017

Chris Blandford Associates

Landscape & Ecological Assessment Study

| Zootoca vivipara | Common lizard |
|---|--------------------|
| | |
| Sussex BAP Species | |
| Centaurea cyanus | Cornflower |
| Erinaceus europaeus | European hedgehog |
| Lasiommata megera | Wall |
| Limenitis camilla | White admiral |
| Sussex Rare Species Inventory | |
| Argiope bruennichi | Wasp spider |
| Boletus radicans | Rooting Bolete |
| Bromus secalinus | Rve brome |
| Cyperus longus | Galingale |
| Dolichovespula (Dolichovespula) media | 0 |
| Hippophae rhamnoides | Sea buckthorn |
| Petroselinum segetum | Corn parsley |
| Notable Bird Inventory | |
| Apus apus | Swift |
| Ardea cinerea | Grey heron |
| Botaurus stellaris | Bittern |
| Burbinus oedicnemus | Stope-curlew (?) |
| Cettia cetti | Cetti's warbler |
| Corvus corax | Raven |
| Delichon urbicum | House martin |
| Falco subbuteo | Hobby |
| Hirupdo rustica | Swallow |
| | Swallow |
| Invasive Alien Species Inventory | |
| Centranthus ruber | Red valerian |
| Cotoneaster horizontalis | Wall cotoneaster |
| Crocosmia pottsii x aurea = C. x crocosmiiflora | Montbretia |
| Elodea canadensis | Canadian Waterweed |
| Harmonia axyridis | Harlequin Ladybird |
| Hyacinthoides non-scripta x hispanica | |
| (= H. x massartiana) | Hybrid bluebell |
| Petasites fragrans | Winter heliotrope |
| Prunus laurocerasus | Cherry laurel |
| Rosa rugosa | Japanese rose |
| | |

Field Survey: Habitat Descriptions (See Figure 23/109)

Poor semi-improved grassland – Most of the northern and eastern part of the Site comprises species poor grassland in which Yorkshire fog *Holcus lanatus* and common bent *Agrostis capillaris* are the most abundant grasses, but perennial rye-grass *Lolium perenne* and sweet vernal-grass *Anthoxanthum odoratum* are frequent in parts and other grasses include tufted hair-grass *Deschampsia cespitosa*, meadow barley *Hordeum secalinum* and small cat's-tail *Phlem bertolonii*. Forb content is variable but generally low and comprises largely of creeping buttercup *Ranunculus repens*, white clover *Trifolium repens* and creeping thistle *Cirsium arvense*. Sward structure is somewhat variable, from short to moderately tall, dependent on recent management.

Areas adjoining the marshy grassland in the south of the Site are a little richer, with frequent bird's foottrefoil *Lotus corniculatus* and Wood dock *Rumex sanguineus* as well as occasional common knapweed *Centaurea nigra*, redshank *Persicaria maculata* and pond sedge *Carex riparia/acutiformis*.

Marshy grassland – The largest areas are on the level ground in the south of the Site. This comprises variable mixtures of soft and jointed rush *Juncus effusus* and *articulatus*, pond sedge, common spike rush *Eleocharis palustris*, reed sweet-grass *Glyceria maxima* and creeping bent *Agrostis stolonifera* with

frequent lesser spearwort *Ranunculus flammula*, marsh bedstraw *Galium palustre*, water pepper *Persicaria hydropiper* and redshank. This area appears likely to flood seasonally and would be considered to be the BAP Priority Habitat Coastal and Floodplain Grassland.

There are two small areas of marshy grassland, with soft and jointed rush, frequent tufted hair-grass and greater bird's foot-trefoil and marsh thistle *Cirsium palustre* on the southern edge of the northern part of the Site.

Tall ruderal – Generally small patches scattered throughout the Site on and beside boundaries.

Trees and scrub – Scattered especially along boundaries and including hawthorn, blackthorn, gorse, elder, willows, poplars and oak.

Hedges – Apart from the hedge on the western edge of the south eastern part of the Site these are gappy and defunct and comprise discontinuous lines of trees and shrubs.

Ditches – There are several ditches of which the most significant border or cut through the low lying southern part of the Site. They contain water and stands of a range of aquatic, emergent and marginal species, including common duckweed *Lemna minor*, water plantain *Alisma plantago-aquatica*, fools water-cress *Apium nodiflorum*, greater reedmace *Typha latifolia*, common reed *Phragmites australis*, reed sweet-grass, branched bur-reed *Sparganium erectum*, floating Sweet-grass *Glyceria fluitans*, gysywort *Lycopus europaeus*, soft and jointed rush and forget-me-not *Myosotis* sp.. There are also a number of smaller ditches running broadly north to south in the northern part of the Site. These support a number of species present in the ditches to the south, especially fools water-cress.

Pond – There is a pond at **TN1**. It is set beside a field boundary among mature white and crack willows and is quite heavily shaded, though a small section on the western side is more open. It contains water, probably up to at least 10cm in depth and vegetation included common duckweed, soft rush, reed sweet-grass and marsh bedstraw.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Assessment of Potential for Protected and Notable Species

Great crested newts – There is a pond within the Site as well as north of the railway line beside Darent Close, approximately 90m from the Site, although the railway line will represent a significant barrier to dispersal for great crested newts. Vegetation along boundaries, including hedges, scrub, tall ruderal, dich banks etc, represent suitable terrestrial habitat for great crested newts within the Site.

Reptiles – Potential along and beside boundaries.

Breeding birds – In hedges, trees and scrub. The open grasslands may also be used by ground nesting species such as skylark.

Wintering birds - Given the size and nature of the fields/grasslands and their location close to other areas of grazing marsh and other wetland habitats, including Pevensey Levels SSSI, SAC and Ramsar site, there is potential for the Site to be used by wintering wetland birds such as wildfowl, waders and raptors.

Bats – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation and hedgerows have potential to be used as roosts. Activity, including foraging and commuting, is likely throughout but especially along hedges.

Water voles – The ditches in the southern part of the Site represent suitable habitat for water voles.

Badgers – Potential for setts within the scrub and hedgerows, but with or without setts badgers may also use any part of the Site for foraging. However, neither setts nor foraging signs are recorded during the survey.

Recommendations for Further Survey (and optimal survey timings)

Botanical – of the ditches and the marshy grassland/BAP Priority Habitat Coastal and Floodplain Grassland in the southern part of the Site.

Amphibian (including great crested newt) – (March – June) of the pond to the east of the Site.

Reptiles – (May – June, September – October) in suitable habitat throughout the Site.

Breeding birds – (April – June) especially woodland, plantations, and hedge.

Wintering birds – (September – March) of whole site.

Bats – (inspections: year round; activity surveys April – October) in the first instance inspection of trees. to determine the scope for further survey and activity surveys.

Water vole – of the ditches in the southern part of the Site.

Badgers – (Year round but Spring / Autumn optimal) of whole Site.

INDICATIVE ECOLOGICAL APPRAISAL

Moderate value– although much of the Site comprises species poor grassland it does include significant areas of marshy grassland/BAP Priority Habitat Coastal and Floodplain Grassland and associated ditches. It also includes a pond and hedges, trees and scrub.

The Sites habitats and features have high potential to support notable/protected species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining and buffering habitats in the southern part of the Site, including marshy grassland/BAP Priority Habitat Coastal and Floodplain Grassland and associated ditches and pond.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest.
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents;
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- Buffer habitats in the southern part of the Site, including marshy grassland/BAP Priority Habitat Coastal and Floodplain Grassland and associated ditches and pond, and consider opportunities to diversify and enhance the habitats, especially the wetland habitats, present.
- If great crested newts are found to be present, retention of pond and sufficient area of terrestrial habitat (as part of buffer strip) and other possible measures to safeguard their conservation status, under a Natural England European Protected Species licence.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor

areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).

- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.
- Development should seek to avoid any prime foraging grounds identified through the badger survey, avoid severance to commuting corridors within territories and avoid any construction works within at least 30m of the nearest badger setts.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and feature, in the southern part of the Site, including marshy grassland/BAP Priority Habitat Coastal and Floodplain Grassland and associated ditches and pond, and consider opportunities to diversify and enhance the habitats, especially the wetland habitats, present.
- Habitat creation, ideally located adjacent to retained or adjoining habitat, for example a field corner, or to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees (for example along the northern and eastern boundaries); and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bat boxes suitable for a range of bat species, on retained trees or incorporated into buildings where they will remain unlit.
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

| KEY | |
|----------------------|---------------------------------|
| | Site Assessment Boundary |
| × | Scattered Scrub |
| ٠ | Broadleaved Tree |
| | Running Water |
| ~~~~ | Hedge - Intact Species Rich |
| | Hedge - Defunct Species Poor |
| | Hedge - Species Poor with Trees |
| | Dry Ditch |
| | Dense Scrub |
| $\boldsymbol{\cdot}$ | Marsh / Marshy Grassland |
| SI | Poor Semi-improved Grassland |
| \sim | Tall Ruderal |
| | Standing Water |
| ٢ | Target Note |
| | |

FIGURE 23/109 STONE CROSS - Site Ref 109/1620 - PHASE 1 HABITAT PLAN

120 Metres

60

| ECOLOGICAL ASSESSMENT | | |
|------------------------|---|--|
| Area: | Stone Cross | |
| Site Name: | Land South of Onestack, Dittons Road, Stone Cross | |
| Site Reference Number: | 114/3280 | |
| Site Description | | |

Two very species poor grassland fields totalling 3.71ha. Includes a species rich hedge and a tree and shrub belt, both including mature trees, as well as a small area of dense scrub and unmanaged grassland.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. Residential development, an electricity substation and the B2247 Dittons Road lie to the north and east, with the wooded embankment of the A22 to the west. The wooded disused railway lies to the south.

| Desk Study : Designated Sites within 1km (See Figure 23.2) | Distance from Site |
|--|---------------------------------|
| • The Site lies approximately 2km south west to the nearest point of the Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below: Pevensey Levels SAC: Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i> . Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. | 2km to the North of the Site |
| • Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides</i> , flat-stalked pondweed <i>Potamogeton friesii</i> , the pondweed <i>Potamogeton trichoides</i> , greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis</i> , whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi</i> , water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis</i> . An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the nationally scarce sea-kale <i>Crambe maritime</i> . The citation states: <i>The Site supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera … A ramshorn snail Segmentina nitida (<i>RDB: Endangered</i>), <i>is found in well-oxygenated drains with lush vegetation</i>. <i>Particularly widespread and abundant on this Site is an aquatic</i></i> | |

| • | snail Valvata macrostoma (RDB: Vulnerable). beetle recorded at the Site, the most interesti in areas of permanent pasture. Of particular it beetle, the great silver water beetle Hydroph is found only on grazed levels in the sou importance is Bagous puncticollis (RDB: End Level and several nationally rare water beet brown Hydrovatus clypealis (RDB: Rare) con England. Over fifteen species of dragonfly (C including the nationally scarce species, hairy and variable damselfly Coenagrion pulchell. Britain's only known location of Placobdella large leech One of Britain's largest spiders Endangered) has also been recorded. The Sit its wintering lapwing Vanellus vanellus which population. The numbers of snipe Gallina, national importance Wintering golden pu- local significance and in some years are of warblers Acrocephalus schoenobaenus and scirpaceus breed in numbers of local signi about one fifth of the breeding yellow wagtail Pevensey Levels Ramsar: Pevensey Levels is fragmented lowland wet grassland systems in lying grazing meadows are intersected by which support a variety of important wet nationally rare and scarce aquatic plants ar supports a notable assemblage of breeding as area of shingle and intertidal muds and sam The Site supports an outstanding assemb invertebrates including many British Red supports 68% of vascular plant species i described as aquatic. It is probably the best molluscs, one of the five best sites for aq supports an outstanding assemblage of dragor | Of the many species of water ing are confined to the ditches interest is Britain's largest water ilus piceus (RDB: Rare) which thern part of Britain. Also of langered), found on Horse Eye les such as the small reddish- nfined to the coast of southern Odonata) have been recorded dragonfly Brachytron pratense um. Survey has also revealed a costata (provisional RDB), a Dolomedes plantarius (RDB: te is of national importance for exceed 1% of the total British go gallinago may also be of lover Pluvialis apricaria are of of national importance. Sedge reed warblers Acrocephalus ficance. The Site also supports s Motacilla flava in Sussex. 5 one of the largest and least- n southeast England. The low- a complex system of ditches thand communities, including nd invertebrates. The Site also nd wintering wildfowl. A small ds is included within the Site. Mage of wetland plants and Data Book species. The Site n Great Britain that can be t Site in Britain for freshwater puatic beetles Coleoptera and nflies Odonata. | | |
|---|---|---|---|---|
| De | esk Study: BAP Priority Habitats within 1km | | Dist | ance from Site |
| • • • | Ancient & semi-natural woodland – The Dell Ancient & semi-natural woodland – Drockmil Ancient & semi-natural woodland – Pickens V Coastal & floodplain grazing marsh BAP prior Coastal & floodplain grazing marsh BAP prior | ll Hill Shaw Vood ity habitat – un-named ity habitat – un-named | 2 6 9 4 5 | 200m North 500m North 900m East 900m South 500m North |
| De | esk Study: Protected and Notable Species with | in 1km | | |
| Pr Ar Piµ Tr Su Ce Cc Ern La Lir | otected Species aguis fragilis pistrellus nathusii iturus cristatus ssex BAP Species entaurea cyanus penonympha pamphilus inaceus europaeus siommata megera menitis camilla | Slow worm Nathusius's Pipistrelle bat Great crested newt Cornflower Small Heath European hedgehog Wall White admiral | | |
| | | 841 | | Wealden Local Plan Sites |

Wealden Local Plan Sites Landscape & Ecological Assessment Study

| Sussex Rare Species Inventory Argiope bruennichi Boletus radicans Bromus secalinus Cyperus longus Petroselinum segetum | Wasp spider Rooting Bolete Rye brome Galingale Corn parsley |
|---|---|
| Notable Bird Inventory Ardea cinerea Botaurus stellaris Cettia cetti | Grey heron Bittern Cetti's warbler |
| Hirundo rustica Invasive Alien Species Inventory | Swallow |
| Centranthus ruber Cotoneaster horizontalis Crocosmia pottsii x aurea = C. x crocosmiiflora Impatiens glandulifera Petasites fragrans Rosa rugosa | Red valerian Wall cotoneaster Montbretia Indian balsam Winter heliotrope Japanese rose |

Field Survey: Habitat Descriptions (See Figure 23/114)

Poor semi-improved grassland – Very species poor and generally short sward (horse pasture). The most abundant grasses are Yorkshire fog *Holcus lanatus* and common bent *Agrostis capillaris*, but perennial rye-grass *Lolium perenne*, is frequent and meadow barley *Hordeum secalinum* and small cat's-tail *Phleum bertolonii* are also present. Forbs comprise a minor component and are of very common and widespread species, mostly meadow and creeping buttercup *Ranunculus acris* and *repens*, white clover *Trifolium repens*, but also including common mouse-ear *Cerastium fontanum* and cinquefoil *Potentilla reptans*. Ragwort *Senecio jacobaea*, creeping thistle *Cirsium arvense* and nettle are occasional.

The small area of tall unmanaged grassland in the north of the Site comprises Yorkshire fog, common bent, cocksfoot *Dactylis glomerata*, soft rush *Juncus effusus*, fleabane *Pulicaria dysenterica* and hoary ragwort *Senecio erucifolius*.

Hedges – There is a species-rich hedge on the northern boundary of the northern field, part of which includes mature oak and ash trees. Other species include blackthorn, field maple, hazel, rose and oak. There is also a tree and shrub belt between the two fields with mature oaks, hawthorn, blackthorn and rose.

Scrub – Small area of dense blackthorn and bramble in the north of the Site.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Assessment of Potential for Protected and Notable Species

Great crested newts – There are no ponds within the Site. However, there are ponds near Dittons Nursery, north of the B2247 Dittons Road, approximately 140-180m to the east and north east of the Site. OS maps also indicate the presence of a pond at the end of Rother Avenue, approximately 50m to the east of the Site. Hedges, scrub and unmanaged grassland within the Site represent suitable terrestrial habitat for great crested newts. However, given the presence of barriers to dispersal of great crested

Chris Blandford Associates

newts, including the B2247, as well as the limited extent of suitable terrestrial habitat, the probability of great crested newts being present within the Site is considered to be low.

Reptiles – Potential in unmanaged grassland in the north of the Site and possibly in some areas on boundaries

Breeding birds – Especially hedges and woodland, though the northern field particularly may also be suitable for ground nesting species such as skylark.

Wintering birds – The size of the northern field may make it suitable, for example, to wintering lapwing. **Bats** – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation and hedgerows have potential to be used as roosts. Activity, including foraging and commuting, is likely throughout but especially along hedges and site's boundaries.

Badgers – Potential for setts within the adjoining woodland and in hedgerows, but with or without setts badgers may also use any or all of the Site for foraging. However, neither setts nor foraging signs are recorded during the survey.

Recommendations for Further Survey (and optimal survey timings)

Amphibian (including great crested newt) – (March – June) of the ponds to the east of the Site.

Reptiles – (May – June, September – October) in suitable habitat in the northern part of the Site and along boundaries.

Bats – (inspections: year round; activity surveys April – October) in the first instance inspection of trees to determine the scope for further survey and activity surveys.

Badgers – (Year round but Spring / Autumn optimal) of whole site.

INDICATIVE ECOLOGICAL APPRAISAL

Low value – the grassland is very species poor. The most valuable features are the hedge and mature trees as well as scrub and unmanaged grassland. The habitats and features have low potential to support protected species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining the hedge and tree and shrub belt, including the mature trees and their features.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest.
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents.
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific

measures will be required if any works are close to watercourses and/or waterbodies.

- Buffer the hedge and tree and shrub belt, including the mature trees and their features
- If great crested newts are found in the ponds to the east of the Site appropriate measures will need to be put in place to prevent harm to them during their terrestrial phase, for example herptile fencing the development Site and possibly trapping and translocation to a suitable receptor site.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.
- Development should seek to avoid any prime foraging grounds identified through the badger survey, avoid severance to commuting corridors within territories and avoid any construction works within at least 30m of the nearest badger setts.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, including the hedges and mature trees.
- Undertake landscape planting and habitat creation, for example by planting appropriate native species to strengthen existing hedges, as well as creating new ones, particularly where the Site adjoins existing residential properties.
- Habitat creation, ideally located adjacent to retained or adjoining habitat to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bat boxes suitable for a range of bat species, on retained trees or incorporated into buildings where they will remain unlit.
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

KEY

() o

30

Site Assessment Boundary

- × Scattered Scrub
- Broadleaved Tree
- Hedge Intact Species Rich
- Hedge Intact Species Poor
- Hedge Species Rich with Trees
- Dense Scrub
- SI Poor Semi-improved Grassland

60 Metres

| ECOLOGICAL ASSESSMENT | | |
|------------------------|---|--|
| Area: | Stone Cross | |
| Site Name: | Land off Peelings Lane, Adjoining Pickens Wood, Stone Cross | |
| Site Reference Number: | 187/3280 | |
| | | |

Site Summary Description

A 4.44ha, generally rather species poor grassland field, a small Ancient Woodland (Pickens Wood) and species-rich hedge with mature trees and species poor hedge alongside Peelings Lane.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site lies immediately north of Stone Cross, bordered to the north by the tree belt landscaping of the A27. Minor roads and residential development form the Site's western and southern boundaries, with Pickens Wood Ancient Woodland located in the south of the Site.

| Desk Study: Designated Sites within 1km (See Figure 23.2) | Distance from Site |
|--|--|
| The Site lies approximately 1.5km south west to the nearest point of the Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below: Pevensey Levels SAC: Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i>. Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides</i>, flat-stalked pondweed <i>Potamogeton friesii</i>, the pondweed <i>Potamogeton trichoides</i>, greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis</i>, whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi</i>, water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis</i>. An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the nationally scarce sea-kale <i>Crambe maritime</i>. The citation states: <i>The Site supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera … A ramshorn snail Segmentina nitida (<i>RDB</i>: Endangered), is found in well-oxyg</i> | 1.5km to the North East of the Site |

| vegetation. Particularly widespread and snail Valvata macrostoma (RDB: Vulneral beetle recorded at the Site, the most interin areas of permanent pasture. Of particul beetle, the great silver water beetle Hydi is found only on grazed levels in the importance is Bagous puncticollis (RDB: Level and several nationally rare water brown Hydrovatus clypealis (RDB: Rare, England.Over fifteen species of dragonfincluding the nationally scarce species, h and variable damselfly Coenagrion puld Britain's only known location of Placob large leech One of Britain's largest spectral is wintering lapwing Vanellus vanellus w population. The numbers of snipe Ga national importance Wintering golder local significance and in some years a warblers Acrocephalus schoenobaenus scirpaceus breed in numbers of local about one fifth of the breeding yellow wat significance and series and system lying grazing meadows are intersected which support a variety of important nationally rare and scarce aquatic plan supports a notable assemblage of breedin area of shingle and intertidal muds and The Site supports an outstanding assemblage of dragont and scarce of soupports an outstanding assemblage of dragont and scarce of soupports an outstanding assemblage of dragont and scarce of supports an outstanding assemblage of dragont and scarce of supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assemblage of dragont and scarce of the five best sites for supports an outstanding assem | abundant on this Site is an aquatic ble). Of the many species of water eresting are confined to the ditches ilar interest is Britain's largest water rophilus piceus (RDB: Rare) which southern part of Britain. Also of Endangered), found on Horse Eye beetles such as the small reddish-) confined to the coast of southern ly (Odonata) have been recorded pairy dragonfly Brachytron pratense chellum. Survey has also revealed della costata (provisional RDB), a biders Dolomedes plantarius (RDB: re Site is of national importance for thich exceed 1% of the total British llinago gallinago may also be of en plover Pluvialis apricaria are of the of national importance. Sedge and reed warblers Acrocephalus significance. The Site also supports gtails Motacilla flava in Sussex. els is one of the largest and least- ms in southeast England. The low- by a complex system of ditches wetland communities, including ts and invertebrates. The Site also ng and wintering wildfowl. A small sands is included within the Site. semblage of wetland plants and ted Data Book species. The Site es in Great Britain for freshwater r aquatic beetles Coleoptera and ragonflies Odonata. | | | |
|--|--|--|--|--|
| Desk Study: BAP Priority Habitats within 1k | m | Distance from Site | | |
| Ancient & semi-natural woodland – Pickens Wood Ancient & semi-natural woodland – The Dell Coastal & floodplain grazing marsh BAP priority habitat – un-named Coastal & floodplain grazing marsh BAP priority habitat – un-named | | Within Site 550m West 875m South West 990m East | | |
| Desk Study: Protected and Notable Species within 1km | | | | |
| Protected SpeciesPipistrellus nathusiiPipistrellus sp.Triturus cristatusSussex BAP SpeciesCentaurea cyanusSussex Rare Species InventoryArgiope bruennichi | Nathusius's Pipistrelle bat Pipistrelle sp. bat Great crested newt Cornflower Wasp spider | | | |
| | 846 | Wealden Local Plan Sites | | |

| Notable Bird Inventory Ardea cinerea Botaurus stellaris Burhinus oedicnemus Cettia cetti Falco subbuteo Hirundo rustica Vanellus vanellus | Grey heron Bittern Stone-curlew (?) Cetti's warbler Hobby Swallow Lapwing | | |
|--|---|--|--|
| Invasive Alien Species Inventory Centranthus ruber Cotoneaster horizontalis Crassula helmsii Crocosmia pottsii x aurea = C. x crocosmiiflora Impatiens glandulifera Myriophyllum aquaticum Petasites fragrans Prunus laurocerasus Rosa rugosa | Red valerian Wall cotoneaster New Zealand pigmyweed Montbretia Indian balsam Parrot's-feather Winter heliotrope Cherry laurel Japanese rose | | |
| Field Survey: Habitat Descriptions (See Figure 23/187) | | | |

Poor semi-improved grassland – Relatively short (cut) and homogenous sward. Rather species poor, especially in the eastern half. The sloping western half is somewhat richer. Grasses include abundant Yorkshire fog *Holcus lanatus* and common bent *Agrostis capillaris*, and frequent perennial rye-grass *Lolium perenne*. The western part of the field includes frequent meadow buttercup *Ranunculus acris*, bird's foot trefoil/greater bird's foot trefoil *Lotus corniculatus/pedunculatus*, white and red clover *Trifolium repens* and *pratense* and hoary ragwort *Senecio erucifolius*. Common vetch *Vicia sativa*, self-heal *Prunella vulgaris*, greater plantain *Plantago major*, fleabane *Pulicaria dysenterica*, dandelion *Taraxacum officinale* agg., ox-eye daisy *Leucanthemum vulgare* and common knapweed *Centaurea nigra* are also occasional. Other species include tufted vetch *Vicia cracca* and grass vetchling *Lathyrus nissiola*. Most of these species are less frequent or absent in the eastern part of the field where white clover is abundant.

Hedges – The hedge on the western boundary is species poor and dominated by hawthorn. The hedge along Peelings Lane is species rich with hazel, hawthorn, blackthorn, field maple, ash, willows and rose. There are also mature oak and ash trees.

Broadleaved semi-natural woodland – Pickens Wood Ancient Woodland has a canopy with frequent ash and oak and occasional field maple and wild cherry. Hazel and field maple are the most frequent species in the shrub layer, but hawthorn, holly and elder are occasional. The field layer appears only moderately rich, with much dominated by bramble and ivy, and includes areas of bare ground due to footfall. However, it does include a number of Ancient Woodland Indicator Species (AWIS) such as stands of bluebell *Hyacinthoides non-scripta* as well as greater stitchwort *Stellaria holostea*, black bryony *Tamus communis* and stinking iris *Iris foetidissima*. Other species include cow parsley *Anthriscus sylvestris*, wood brome *Brachypodium sylvaticum*, common dog violet *Viola riviniana*, and cleavers *Galium aparine*, wood avens *Geum urbanum* and lords and ladies *Arum maculatum*.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Wealden Local Plan Sites Landscape & Ecological Assessment Study

Assessment of Potential for Protected and Notable Species

Great crested newts – There are no ponds within the Site. However, OS maps indicate the presence of ponds near to Peelings Lane, from approximately 160m north east of the Site on the far side of the A27. Habitats within the Site, including hedges and woodland represent suitable terrestrial habitat for great crested newts. However, the A27 represents a very significant barrier to dispersal of great crested newts and the probability of their being present on Site is therefore considered to be low.

Reptiles – Very limited potential along boundaries, especially northern and western.

Breeding birds – especially hedges and woodland, though the field may also be suitable for ground nesting species such as skylark.

Wintering birds – The size of the field may make it suitable, for example, to wintering lapwing.

Bats – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation and hedgerows have potential to be used as roosts. Activity, including foraging and commuting, is likely throughout but especially along hedges.

Dormice – Low potential in woodland and hedges due to very limited habitat connectivity as a result of adjoining residential and A27.

Badgers – Potential for setts within the adjoining woodland and in hedgerows, but with or without setts badgers may also use any part of the Site for foraging. However, neither setts nor foraging signs are recorded during the survey.

Recommendations for Further Survey (and optimal survey timings)

Reptiles – (May – June, September – October) in suitable habitat along boundaries.

Breeding birds – (April – June) especially woodland and hedges.

Bats – (inspections: year round; activity surveys April – October) in the first instance inspection of trees to determine the scope for further survey and activity surveys.

Dormice – (April – November) in woodland and hedges.

Badgers – (Year round but Spring / Autumn optimal) of whole site.

INDICATIVE ECOLOGICAL APPRAISAL

Low to Moderate value – the species-poor grassland is of relatively low value but the Ancient Woodland and hedge along Peelings Lane are of at least moderate value. The habitats and features have some potential to support protected species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining, buffering and positively managing the woodland and hedges, including the mature trees and their features.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

Implementation of a Construction and Environmental Management Plan (CEMP) to manage site-specific issues relating to the potential impacts of construction on ecological features of interest.
Offset buffers to protect retained habitats (minimum 10m).

July 2017

- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents.
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- Buffer the woodland and hedges, including the mature trees and their features.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.
- If dormice are found to be present the retention and appropriate buffering of hedges and woodland (as noted above).
- Development should seek to avoid any prime foraging grounds identified through the badger survey, avoid severance to commuting corridors within territories and avoid any construction works within at least 30m of the nearest badger setts.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, including the Ancient Woodland, hedges and mature trees.
- Undertake landscape planting and habitat creation, for example by planting appropriate native species to strengthen existing hedges, as well as creating new ones, particularly where the Site adjoins existing residential properties.
- Habitat creation, ideally located adjacent to retained or adjoining habitat to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

October 2016 11124101_Ecology Figures_17-10-16.indd





60 Metres

30

(h)

| ECOLOGICAL ASSESSMENT | | |
|------------------------|------------------------------|--|
| Settlement/Area: | Stone Cross | |
| Site Address: | Dittons Nursery, Stone Cross | |
| Site Reference Number: | 529/3280 | |
| | | |

Site Summary Description

A varied 5.94ha Site set around and plant nursery/garden centre. Includes Ancient Woodland, developing broadleaved plantation, conifer plantation, ponds, scattered scrub, tall ruderal and species-poor amenity and tall grassland.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site is bounded on three sides by roads; the A27 to the north, A22 to the west and the B2247 to the South. The eastern end of the Site is formed by The Dell Ancient Woodland, beyond which is further development.

| Desk Study : Designated Sites (See Figure 23.2) | Distance from Site |
|--|------------------------------------|
| • The Site lies approximately 1.75km south to the nearest point of the Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below. Pevensey Levels SAC: Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i> . Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. | 1.75km to the North of the Site |
| • Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides</i> , flat-stalked pondweed <i>Potamogeton friesii</i> , the pondweed <i>Potamogeton trichoides</i> , greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis</i> , whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi</i> , water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis</i> . An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the nationally scarce sea-kale <i>Crambe maritime</i> . The citation states: <i>The Site supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera A ramshorn snail Segmentina nitida (RDB: Endangered), is found in well-oxygenated drains with lush vegetation</i> . <i>Particularly widespread and</i> | |

| • | abundant on this Site is an aquatic sna Vulnerable). Of the many species of water most interesting are confined to the ditches in particular interest is Britain's largest water be Hydrophilus piceus (RDB: Rare) which is fo southern part of Britain. Also of importance Endangered), found on Horse Eye Level an beetles such as the small reddish-brown Hy confined to the coast of southern England. Of (Odonata) have been recorded including the dragonfly Brachytron pratense and va pulchellum. Survey has also revealed Brit Placobdella costata (provisional RDB), a 1 largest spiders Dolomedes plantarius (great has also been recorded. The Site is of nation lapwing Vanellus vanellus which exceed 1%. The numbers of snipe Gallinago gallinago ma Wintering golden plover Pluvialis apricaria some years are of national importance. schoenobaenus and reed warblers Acroce numbers of local significance. The Site also breeding yellow wagtails Motacilla flava in Su Pevensey Levels Ramsar: Pevensey Levels fragmented lowland wet grassland systems lying grazing meadows are intersected by a c support a variety of important wetland comm and scarce aquatic plants and invertebrates. assemblage of breeding and wintering wildfe intertidal muds and sands is included withi outstanding assemblage of wetland plants an British Red Data Book species. The Site s species in Great Britain that can be describ best Site in Britain for freshwater molluscs aquatic beetles Coleoptera and supports dragonflies Odonata. | ail Valvata macrostoma (RDB: beetle recorded at the Site, the n areas of permanent pasture. Of etle, the great silver water beetle und only on grazed levels in the re is Bagous puncticollis (RDB: nd several nationally rare water vdrovatus clypealis (RDB: Rare) Over fifteen species of dragonfly e nationally scarce species, hairy ariable damselfly Coenagrion tain's only known location of arge leech One of Britain's raft spider) (RDB: Endangered) onal importance for its wintering 6 of the total British population. ny also be of national importance a are of local significance and in Sedge warblers Acrocephalus phalus scirpaceus breed in supports about one fifth of the rssex. is one of the largest and least- in southeast England. The low- complex system of ditches which punities, including nationally rare The Site also supports a notable owl. A small area of shingle and n the Site. The Site supports an nd invertebrates including many supports 68% of vascular plant ed as aquatic. It is probably the 5, one of the five best sites for an outstanding assemblage of | | |
|--|--|---|-------|---|
| De | sk Study: BAP Priority Habitats | | Di | stance from Site |
| • • • | Ancient & semi-natural woodland – The Dell Ancient & semi-natural woodland – Drockmi Ancient & semi-natural woodland – Pickens V Coastal & floodplain grazing marsh BAP prior Coastal & floodplain grazing marsh BAP prior | ll Hill Shaw Wood rity habitat – un-named rity habitat – un-named | • • • | Within Site 425m North West 625m East 300m North 600m South |
| Desk Study: Protected and Notable Species | | | | |
| Pro An Pip Tri Su Ce Cc Eri | otected Species guis fragilis bistrellus nathusii bistrellus sp. turus cristatus ssex BAP Species ntaurea cyanus enonympha pamphilus naceus europaeus | Slow worm Nathusius's Pipistrelle bat Pipistrelle sp. bat Great crested newt Cornflower Small Heath European hedgehog | | |
| | | 001 | | Wealden Local Plan Sites |

Wealden Local Plan Sites Landscape & Ecological Assessment Study

| Field Survey: Habitat Descriptions (See Figure 23/529) | | | |
|--|-------------------|--|--|
| Rosa rugosa | Japanese rose | | |
| Petasites fragrans | Winter heliotrope | | |
| Impatiens glandulifera | Indian balsam | | |
| Crocosmia pottsii x aurea = C. x crocosmiiflora | Montbretia | | |
| Cotoneaster horizontalis | Wall cotoneaster | | |
| Centranthus ruber | Red valerian | | |
| Invasive Alien Species Inventory | | | |
| Hirundo rustica | Swallow | | |
| Ardea cinerea | Grey neron | | |
| Notable Bird Inventory | Creative | | |
| Petroselinum segetum | Corn parsley | | |
| Cyperus longus | Galingale | | |
| Bromus secalinus | Ryebrome | | |
| Boletus radicans | Rooting Bolete | | |
| Argiope bruennichi | wasp spider | | |
| Sussex Rare Species Inventory | | | |
| Limenitis camilla | White admiral | | |
| Lasiommata megera | Wall | | |

Amenity grassland – Very short and comprising a large part of the western r

Amenity grassland – Very short and comprising a large part of the western part of the Site. Generally species poor but includes bird's foot trefoil *Lotus corniculatus*, white clover *Trifolium repens*, black medick *Medicago lupulina*, self-heal *Prunella vulgaris*, fleabane *Pulicaria dysenterica*, hoary ragwort *Senecio erucifolius* and autumn hawkbit *Leontodon autumnalis*.

Poor semi-improved grassland – Areas of tall grassland around the edges of the Site and among the broadleaved plantation. Species poor and dominated by Yorkshire fog *Holcus lanatus* and false oat-grass *Arrhenatherum elatius*. However, fleabane is notably abundant and other species include hoary ragwort, common knapweed, bristly ox-tongue *Picris echioides*, creeping thistle *Cirsium arvense*, great willowherb *Epilobium hirsutum*, and meadow buttercup *Ranunculus acris*.

Tall ruderal – Merges with the tall grassland and is scattered throughout but is present between the nursery and southern boundary.

Hedges – There is a species poor hedge dominated by hawthorn along the southern boundary.

Broadleaved semi-natural woodland – Two small areas of Ancient Woodland (The Dell) in the east of the Site. The canopy is dominated by oak and ash with a little field maple. The shrub layer is dominated by hazel but hawthorn, field maple, blackthorn and holly are also present. The field layer is locally dominated by ivy or dense stands of bluebell *Hyacinthoides non-scripta* with frequent male and broad buckler ferns *Dryopteris felix-mas* and *dilatata*. As well as bluebell, a number of other Ancient Woodland Indicator Species (AWIS) are present, including wood speedwell, primrose *Primula vulgaris*, red currant *Ribes rubrum* and stinking iris *Iris foetidissima*. The smaller western area includes a pond and is more open in character with a grassier field layer.

Broadleaved plantation – Of variable stages of development but mostly young set among poor semiimproved grassland to the west of the Ancient Woodland. There is also an area of more developed plantation in the west of the Site. Comprises a mix of native and non-native species.

Coniferous plantation – A small mature plantation of spruce with frequent ash to the west of the Ancient Woodland. The field layer is dominated by ivy with frequent male fern and harts tongue *Asplenium scolopendrium*.

Ponds – A small pond at **TN1** is filled with greater reedmace *Typha latifolia* and set beside the Nursery among amenity grassland and tall ruderal. The larger pond at **TN2** is set within woodland but is quite open. It includes stands of sedge *Carex* sp., yellow iris *Iris pseudoacorus*, branched bur-reed *Sparganium erectum*, greater reedmace, water mint *Mentha aquatica*, marsh marigold *Caltha palustris* and water plantain *Alisma plantago-aquatica*. The surface is covered in duckweed *Lemna* sp..

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Assessment of Potential for Protected and Notable Species

Great crested newts – There are two ponds within the Site and most of the habitats within the Site, excluding the amenity grassland, represent suitable terrestrial habitat for great crested newts. **Reptiles** – potential among tall grassland and ruderal and among broadleaved plantation and beside

ponds.

Breeding birds – especially woodland, plantations and hedges.

Bats – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation and hedgerows have potential to be used as roosts. Activity, including foraging and commuting, is likely throughout but especially in the woodlands, plantations and along hedges.

Dormice – low potential in woodland, plantations and hedges due to limited habitat connectivity as a result, for example of adjoining roads and development.

Badgers – Potential for setts within the woodland and plantations, but with or without setts badgers may also use any or the entire Site for foraging. However, neither setts nor foraging signs are recorded during the survey.

Recommendations for Further Survey (and optimal survey timings)

Amphibian (including great crested newt) – (March – June) of the ponds to the east of the Site.

Reptiles – (May – June, September – October) in suitable habitat throughout the Site.

Breeding birds – (April – June) especially woodland, plantations, and hedge.

Bats – (inspections: year round; activity surveys April – October) in the first instance inspection of trees to determine the scope for further survey and activity surveys.

Dormice – (April – November) in suitable habitat.

Badgers – (Year round but Spring / Autumn optimal) of whole site.

INDICATIVE ECOLOGICAL APPRAISAL

Moderate value – although the amenity grassland is of relatively low value, the mosaic of habitats present, including Ancient Woodland and ponds is of at least moderate value. The habitats and features have moderate potential to support protected/notable species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining and buffering the Ancient Woodland, including the pond and mature trees and their features.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest.
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents.
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- If great crested newts are found to be present in any of the ponds on site, retention of pond(s) and sufficient area of terrestrial habitat (as part of buffer strip) and other possible measures to safeguard their conservation status, under a Natural England European Protected Species licence.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.
- If dormice are found to be present the retention and appropriate buffering of woodland (as noted above).
- Development should seek to avoid any prime foraging grounds identified through the badger survey, avoid severance to commuting corridors within territories and avoid any construction works within at least 30m of the nearest badger setts.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, including the Ancient Woodland, hedges and mature trees.
- Strengthen boundary vegetation example by removing non-native species planting appropriate native species to form hedges, for example on the western boundary.
- Habitat creation, ideally located adjacent to retained or adjoining habitat, for example the Ancient Woodland in the east of the Site, or to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

October 2016 11124101_Ecology Figures_17-10-16.indd

KEY

Site Assessment Boundary X Scattered Scrub Broadleaved Tree Hedge - Intact Species Poor Broadleaved Semi-natural Woodland Broadleaved Plantation **Coniferous Plantation** SI Poor Semi-improved Grassland Tall Ruderal Standing Water Amenity Grassland Α Introduced Shrub Bare Ground Target Note (0)

> FIGURE 23/529 STONE CROSS - Site Ref 529/3280 - PHASE 1 HABITAT PLAN

60 Metres

30

| ECOLOGICAL ASSESSMENT | | |
|------------------------|--------------------------------|--|
| Area: | Stone Cross | |
| Site Name: | Land at Hazelbank, Stone Cross | |
| Site Reference Number: | 575/3280 | |
| | | |

Site Summary Description

A small, 0.51ha, Site comprising largely of species poor grassland used for horse pasture with trees and scrub on boundaries. Also includes an adjoining house and garden.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site is surrounded by existing residential development to the east, west and south. To the north, the Site opens out onto hedge-lined fields with the A27 further beyond.

| De | sk Study : Designated Sites within 1km (See Figure) | Distance from Site |
|----|--|----------------------------------|
| • | The Site lies approximately 1.2km south west to the nearest point of the Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below: Pevensey Levels SAC: Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i> . Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing | 1.2km North East of the Site. |
| • | revensey Levels 3551. Fevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides,</i> flat-stalked pondweed <i>Potamogeton friesii,</i> the pondweed <i>Potamogeton trichoides,</i> greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis,</i> whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi,</i> water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis.</i> An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the nationally scarce sea-kale <i>Crambe maritime.</i> The citation states: <i>The Site supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera A ramshorn snail Segmentina nitida (RDB: Endangered), is found in well-</i> | |

| oxygenated drains with lush vegetation abundant on this Site is an aquatic sr Vulnerable). Of the many species of water most interesting are confined to the ditche Of particular interest is Britain's largest we beetle Hydrophilus piceus (RDB: Rare) levels in the southern part of Britain. puncticollis (RDB: Endangered), found of nationally rare water beetles such as the clypealis (RDB: Rare) confined to the co fifteen species of dragonfly (Odonata) has nationally scarce species, hairy dragonfly damselfly Coenagrion pulchellum. Survey known location of Placobdella costata (pu One of Britain's largest spiders Dolome | n. Particularly widespread and nail Valvata macrostoma (RDB: or beetle recorded at the Site, the es in areas of permanent pasture. ater beetle, the great silver water which is found only on grazed Also of importance is Bagous on Horse Eye Level and several small reddish-brown Hydrovatus coast of southern England. Over ave been recorded including the Brachytron pratense and variable has also revealed Britain's only rovisional RDB), a large leech des plantarius (great raft spider) | | | |
|--|--|---|--|--|
| importance for its wintering lapwing Vanet the total British population. The numbers also be of national importance We apricaria are of local significance and importance. Sedge warblers Acroceph warblers Acrocephalus scirpaceus significance. The Site also supports about wagtails Motacilla flava in Sussex. Pevensey Levels Ramsar: Pevensey Level fragmented lowland wet grassland system lying grazing meadows are intersected be which support a variety of important we nationally rare and scarce aquatic plants supports a notable assemblage of breeding area of shingle and intertidal muds and so The Site supports an outstanding asset invertebrates including many British Resupports 68% of vascular plant species described as aquatic. It is probably the key molluscs, one of the five best sites for supports an outstanding assemblage of dragen basemblage of dragen basemblagen basemblage of dragen basemblagen basembla | Ilus vanellus which exceed 1% of of snipe Gallinago gallinago may intering golden plover Pluvialis in some years are of national alus schoenobaenus and reed breed in numbers of local cone fifth of the breeding yellow s is one of the largest and least- s in southeast England. The low- by a complex system of ditches wetland communities, including and invertebrates. The Site also g and wintering wildfowl. A small ands is included within the Site. mblage of wetland plants and d Data Book species. The Site s in Great Britain that can be pest Site in Britain for freshwater aquatic beetles Coleoptera and agonflies Odonata. | | | |
| Desk Study: BAP Priority Habitats within 1km | | Distance from Site | | |
| Ancient & semi-natural woodland – Pickens Wood Coastal & floodplain grazing marsh BAP priority habitat – un-named Orchard BAP priority habitat – un-named | | 650m West450m East640m East | | |
| Desk Study: Protected and Notable Species within 1km | | | | |
| Protected SpeciesAnguis fragilisSlow wormPipistrellus sp.Pipistrelle sp. batTriturus cristatusGreat crested newtZootoca viviparaCommon lizardSussex BAP SpeciesErinaceus europaeusEuropean hedgehog | | | | |
| | | | | |

Wealden Local Plan Sites Landscape & Ecological Assessment Study

| Sussex Rare Species Inventory | | |
|---|-----------------------------|--|
| Hydrocharis morsus-ranae | Frogbit | |
| | | |
| | | |
| Notable Bird Inventory | | |
| Alcedo atthis | Kingfisher | |
| Ardea cinerea | Grey heron | |
| Cettia cetti | Cetti's warbler | |
| Falco subbuteo | Hobby | |
| Gallinago gallinago | Snipe | |
| Tringa totanus | Redshank | |
| Tyto alba | Barn owl | |
| Vanellus vanellus | Lapwing | |
| | | |
| Invasive Alien Species Inventory | | |
| Cotoneaster horizontalis | Wall cotoneaster | |
| Crocosmia pottsii x aurea = C. x crocosmiiflora | Montbretia | |
| Elodea nuttallii | Nuttall's Water-Weed | |
| Fallopia japonica | Japanese Knotweed | |
| Hyacinthoides hispanica | Spanish Bluebell | |
| Hvacinthoides non-scripta x hispanica | • | |
| (= H. x massartiana) | Hybrid bluebell | |
| Hvdrocotyle ranunculoides | Floating pennywort | |
| Lamiastrum galeobdolon subsp. Argentatum | Variegated vellow archangel | |
| Rhododendron ponticum | Rhododendron | |
| Rosa rugosa | lapanese rose | |
| | , apa | |

Field Survey: Habitat Descriptions (See Figure 23/575)

Poor semi-improved grassland – Most of the Site comprises tightly grazed horse pasture. It is very species poor. Yorkshire fog *Holcus lanatus* and common bent *Agrostis capillaris* are the most abundant grasses. White clover trifolium repens and creeping buttercup Ranunculus repens are the most frequent forbs and there is occasional creeping and spear thistle Cirsium arvense and vulgare and nettle. Taller species-poor grassland is also present along the access drive to the Site.

Tall ruderal – Present to variable degrees on boundaries.

Trees and scrub – Includes mature ash as well as willows and sycamore. Also conifers, including Scot's pine and a line of cypresses.

Garden – Front and back of house, comprising amenity grassland, beds and borders, cultivated areas and trees.

Buildings – Comprising shed-style stables and house with pitched and tiled roof.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Assessment of Potential for Protected and Notable Species

Great crested newts – There are no ponds within the Site. OS maps indicate the presence of a pond or ponds to the south of Rattle Road, approximately 300-380 south and south east of the Site, although there may be ponds among residential areas closer to the Site. Given the distance to the pond(s) and the

presence of the Rattle Road, which represents a significant barrier to dispersal for great crested newts, as well as the limited suitable terrestrial habitat for great crested newts within the Site, the probability of their being present is considered very low.

Reptiles – Very limited potential along boundaries.

Breeding birds – In trees and scrub.

Bats – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation have potential to be used as roosts. The buildings also have some potential to support bat roosts.

Recommendations for Further Survey (and optimal survey timings)

Reptiles – (May – June, September – October) in suitable habitat (if present) along boundaries.

Bats – (inspections: year round; activity surveys April – October) in the first instance inspection of trees and house to determine the scope for further survey.

INDICATIVE ECOLOGICAL APPRAISAL

Low value – largely species poor grassland and garden. The trees and scrub on the boundaries have some value. The Site has low potential to support protected species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

• Retaining trees and scrub on Site boundaries.

As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest.
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents;
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- Planting of native trees and shrubs on boundaries to form continuous hedge(s).
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.

Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, including the mature trees. ٠
- Undertake landscape planting and habitat creation, for example by planting appropriate native ٠ species to strengthen existing hedges, as well as creating new ones, particularly where the Site adjoins existing residential properties.
- Habitat creation, ideally located adjacent to retained or adjoining habitat to form habitat corridors or • links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bat boxes suitable for a range of bat species, on retained trees or incorporated into buildings where they will remain unlit;

Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.

Wealden Local Plan Sites





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

FIGURE 23/575 STONE CROSS - Site Ref 575/3280 - PHASE 1 HABITAT PLAN





| ECOLOGICAL ASSESSMENT | | |
|--------------------------|---|--|
| Area: | Stone Cross | |
| Site Name: | Land West of Dittons Nursery, Stone Cross | |
| Site Reference Number: | 677/3280 | |
| Site Summary Description | | |

Site Summary Description

An unmanaged grassland field with an area of developing planted trees and shrubs, hedges and a ditch.

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site is bounded on three sides by roads; the A27 to the north, A22 to the west and the B2247 to the South. The eastern boundary of the Site borders Dittons Nursery.

| Desk Study : Designated Sites within 1km (See Figure 23.2) | Distance from Site |
|--|------------------------------------|
| The Site lies approximately 1.75km south to the nearest point of the Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below: Pevensey Levels SAC: Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i>. Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally rare sharp-leaved pondweed <i>Potamogeton acutifolius</i> and several nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides</i>, flat-stalked pondweed <i>Potamogeton friesii</i>, the pondweed <i>Potamogeton trichoides</i>, greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis</i>, whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi</i>, water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis</i>. An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the nationally scarce sea-kale <i>Crambe maritime</i>. The citation states: <i>The Site supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera … A ramshorn snail Segmentina nitida (<i>RDB</i>: Endangered), <i>is found in well-oxygena</i></i> | 1.75km to the North of the Site |

| nterest is Britain's largest water ilus piceus (RDB: Rare) which thern part of Britain. Also of angered), found on Horse Eye les such as the small reddish- fined to the coast of southern Odonata) have been recorded dragonfly Brachytron pratense um. Survey has also revealed costata (provisional RDB), a s Dolomedes plantarius (great een recorded. The Site is of ving Vanellus vanellus which he numbers of snipe Gallinago e Wintering golden plover d in some years are of national s schoenobaenus and reed numbers of local significance. the breeding yellow wagtails one of the largest and least- n southeast England. The low- a complex system of ditches land communities, including d invertebrates. The Site also nd wintering wildfowl. A small ds is included within the Site. lage of wetland plants and Data Book species. The Site is Site in Britain for freshwater uatic beetles Coleoptera and | |
|--|--|
| | Distance from Site |
| Ancient & semi-natural woodland – The Dell Ancient & semi-natural woodland – Drockmill Hill Shaw Ancient & semi-natural woodland – Pickens Wood Coastal & floodplain grazing marsh BAP priority habitat – un-named Coastal & floodplain grazing marsh BAP priority habitat – un-named | |
| in 1km | |
| Slow worm Great crested newt Small Heath European hedgehog Wall White admiral | |
| | Interest is Britain's largest water ilus piceus (RDB: Rare) which thern part of Britain. Also of angered), found on Horse Eye les such as the small reddish- fined to the coast of southern Odonata) have been recorded dragonfly Brachytron pratense um. Survey has also revealed costata (provisional RDB), a s Dolomedes plantarius (great een recorded. The Site is of ving Vanellus vanellus which he numbers of snipe Gallinago re Wintering golden plover d in some years are of national s schoenobaenus and reed numbers of local significance. the breeding yellow wagtails one of the largest and least- n southeast England. The low- a complex system of ditches thand communities, including ind invertebrates. The Site also nd wintering wildfowl. A small ds is included within the Site. lage of wetland plants and Data Book species. The Site Site in Britain for freshwater uatic beetles Coleoptera and afflies Odonata. |

Wealden Local Plan Sites Landscape & Ecological Assessment Study

| Sussex Rare Species Inventory | |
|---|-------------------|
| Argiope bruennichi | Wasp spider |
| Boletus radicans | Rooting Bolete |
| Bromus secalinus | Rye brome |
| Cyperus longus | Galingale |
| Notable Bird Inventory | |
| Ardea cinerea | Grey heron |
| Hirundo rustica | Swallow |
| Invasive Alien Species Inventory | |
| Centranthus ruber | Red valerian |
| Crocosmia pottsii x aurea = C. x crocosmiiflora | Montbretia |
| Fallopia japonica | Japanese Knotweed |
| Hyacinthoides non-scripta x hispanica | |
| (= H. x massartiana) | Hybrid bluebell |
| Impatiens glandulifera | Indian balsam |
| | |

Field Survey: Habitat Description (See Figure 23/677)

Poor semi-improved grassland – An unmanaged tall and quite coarse sward. Somewhat variable in species composition, though generally rather species-poor. Includes quite a large number of grass species, of which Yorkshire fog *Holcus lanatus* and common bent *Agrostis capillaris*, are abundant, false oat-grass *Arrhenatherum elatius* is frequent and locally abundant and cocksfoot *Dactylis glomerata* and sweet vernal-grass *Anthoxanthum odoratum* are frequent. Other grasses are tufted hair-grass *Deschampsia cespitosa*, meadow barley *Hordeum secalinum*, meadow foxtail *Alopecurus pratensis* and timothy *Phleum pratense* and rarely common reed *Phragmites australis* and floating Sweet-grass *Glyceria fluitans*. Forb content is variable but moderate. The northern part of the field being somewhat richer. The most frequent and abundant species are creeping and meadow buttercup *Ranunculus repens* and *acris*, bird's foot trefoil/greater bird's foot trefoil *Lotus corniculatus/pedunculatus*, fleabane *Pulicaria dysenterica*, hoary ragwort *Senecio erucifolius* and common knapweed *Centaurea nigra*. Other species include smooth tare *Vicia tetrasperma*, cinquefoil *Potentilla reptans*, self-heal *Prunella vulgaris*, ribwort plantain *Plantago lanceolata*, broadleaved dock *Rumex obtusifolius*, hogweed *Heracleum sphodyllium*, yarrow *Achillea millefoilium*, ox-eye daisy *Leucanthemum vulgare*, bristly ox-tongue *Picris echioides* and creeping and spear thistle *Cirsium arvense* and *vulgare*.

Scrub – Comprising developing planted trees and shrubs in the north western corner of the field.

Hedges – Species-rich, with hawthorn, ash, rose, dogwood and oak on the southern boundary and species-poor, dominated by hawthorn beside the ditch near the northern boundary.

Ditch – By the northern boundary. Some water and greater reedmace *Typha latifolia* and soft rush *Juncus effusus*.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Assessment of Potential for Protected and Species

Great crested newts – There are no ponds within the Site. However, there are ponds at Dittons Nursery and nearby, approximately 180-280m east of the Site and most of the Site represents suitable terrestrial habitat for great crested newts.

Reptiles – Throughout site.

Breeding birds – In scrub and hedges.

Bats – There are no trees or structures with potential to be used as roosts. However, the field and its boundaries may be used for foraging and commuting.

Dormice – Low potential in scrub and hedges due to limited connectivity as a result of adjoining roads, development etc.

Badgers – Potential for setts within the scrub and hedges, but with or without setts badgers may also use any or all of the Site for foraging. However, neither setts nor foraging signs are recorded during the survey.

Recommendations for Further Survey (and optimal survey timings)

Amphibian (including great crested newt) – (March – June) of the ponds to the east of the Site. **Reptiles** – (May – June, September – October) in suitable habitat throughout the Site.

Bats – (April – October) activity surveys.

Dormice – (April – November) in suitable habitat.

Badgers – (Year round but Spring / Autumn optimal) of whole site.

INDICATIVE ECOLOGICAL APPRAISAL

Low value – although retaining some diversity the grassland field is rather species poor. Scrub, hedges and ditch have some value. The habitats and features have moderate potential to support protected/notable species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining and buffering the hedges, especially that on the southern boundary.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest.
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents.
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- Buffer the hedges, especially that on the southern boundary.
- If great crested newts are found in the ponds to the east of the Site appropriate measures will need to be put in place to prevent harm to them during their terrestrial phase, for example herp fencing the development Site and possibly trapping and translocation to a suitable receptor site.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor

areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).

- In light of the potential presence of breeding birds, if possible cutting back or removal of woody vegetation, including trees, shrubs/scrub and hedgerows, as well as disturbance of areas of arable, grassland or ruderal, should not be carried out during the bird breeding season, which is March-August inclusive. If this is not possible then the relevant vegetation/areas should be inspected by a suitably qualified ecologist for the presence of breeding birds prior to the commencement of works.
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.
- If dormice are found to be present the retention and appropriate buffering of woodland (as noted above).
- Development should seek to avoid any prime foraging grounds identified through the badger survey, avoid severance to commuting corridors within territories and avoid any construction works within at least 30m of the nearest badger setts.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, such as the hedgerows.
- Strengthen boundary vegetation by planting appropriate native species, for example on the eastern boundary.
- Habitat creation, ideally located adjacent to retained or adjoining habitat to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bat boxes suitable for a range of bat species, on retained trees or incorporated into buildings where they will remain unlit;
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

October 2016 11124101_Ecology Figures_17-10-16.indd

| KEY | |
|--------------|------------------------------|
| | Site Assessment Boundary |
| ٠ | Broadleaved Tree |
| | Running Water |
| ₩₩ | Hedge - Intact Species Rich |
| | Hedge - Intact Species Poor |
| | Broadleaved Plantation |
| \mathbf{X} | Dense Scrub |
| SI | Poor Semi-improved Grassland |
| | |



FIGURE 23/677 STONE CROSS - Site Ref 677/3280 - PHASE 1 HABITAT PLAN

| ECOLOGICAL ASSESSMENT | | |
|------------------------|--|--|
| Area: | Stone Cross | |
| Site Name: | Land North and South of Rattle Road, Stone Cross | |
| Site Reference Number: | 712/3280 | |
| | | |

Site Summary Description

There fields of species poor grassland with hedges, trees and scrub on boundaries totalling 11.74ha. Also includes a small area of moderately rich marshy grassland and ruderal. The southern field was viewed only from the northern boundary.

ECOLOGICAL BASELINE

Green Infrastructure Context (see Figure 23.1)

Stone Cross is a small settlement lying immediately north of the main urban conurbation of Eastbourne. A main railway line runs east-west to the south and the A27 forms the northern border of the settlement, beyond which is an open, low lying, pastoral landscape of large fields bounded by drainage ditches that grade towards the Pevensey Levels, a further 1-2km to the north. Remnant grazing marsh is also present to the south, now largely surrounded by housing development. The Site is bounded by existing residential development and Rattle Road, but to the north east and west, the Site opens out onto a network of hedge-lined fields beyond which is further development and the A27.

| De | esk Study : Designated Sites within 1km (See Figure 23.2) | Distance from Site |
|----|---|---------------------------------|
| • | The Site lies approximately 800m south west to the nearest point of the Pevensey Levels SAC / SSSI / Ramsar. Extracts from the relevant citations are set out below: Pevensey Levels SAC : Comprising inland water bodies (Standing water, Running water) (2.5%) and humid grassland, Mesophile grassland (97.5%). The SAC is designated for its Annex II population of Ramshorn snail <i>Anisus vorticulus</i> . Anisus vorticulus occurs across a range of sites in southern and eastern England. Pevensey Levels is a large and expansive grazing marsh that supports <i>Anisus vorticulus</i> in both a wide spatial distribution and in good population density classes. Pevensey Levels SSSI: Pevensey Levels is a large area of low-lying grazing meadows intersected by a complex system of ditches which show a wide variety of form and species composition and support important communities of wetland flora and fauna. The Site supports the nationally scarce aquatic plants including watersoldier <i>Stratiotes aloides</i> , flat-stalked pondweed <i>Potamogeton friesii</i> , the pondweed <i>Potamogeton trichoides</i> , greater water-parsnip <i>Sium latifolium</i> and river water-dropwort <i>Oenanthe fluviatilis</i> , whose presence are largely the result of ditch management to maintain 'wet fences' for grazing. Rich bankside floras also support a variety of plants such as the nationally scarce marshmallow <i>Althaea officinalis</i> as well as more widespread species such as ragged robin <i>Lychnis flos-cuculi</i> , water mint <i>Mentha aquatica</i> and cuckoo flower <i>Cardamine pratensis</i> . An area of shingle and intertidal muds and sands is included within the Site and although the shingle is largely bereft of vegetation it does support the nationally scarce sea-kale <i>Crambe maritime</i> . The citation states: <i>The Site supports outstanding invertebrate populations and is a top national Site for Molluscs and aquatic Coleoptera … A ramshorn snail Segmentina nitida</i> | 800m North East of the Site. |
| | (NDD. Endangered), is found in weir-oxygenated drains with fush | |

| • | vegetation. Particularly widespread and abus snail Valvata macrostoma (RDB: Vulnerable) beetle recorded at the Site, the most interest in areas of permanent pasture. Of particular beetle, the great silver water beetle Hydroph is found only on grazed levels in the sou importance is Bagous puncticollis (RDB: End Level and several nationally rare water beet brown Hydrovatus clypealis (RDB: Rare) co England. Over fifteen species of dragonfly (including the nationally scarce species, hairy and variable damselfly Coenagrion pulchel Britain's only known location of Placobdell large leech One of Britain's largest spider raft spider) (RDB: Endangered) has also b national importance for its wintering laps exceed 1% of the total British population. T gallinago may also be of national important Pluvialis apricaria are of local significance an importance. Sedge warblers Acrocephalu warblers Acrocephalus scirpaceus breed i The Site also supports about one fifth of Motacilla flava in Sussex. Pevensey Levels Ramsar: Pevensey Levels is fragmented lowland wet grassland systems is lying grazing meadows are intersected by which support a variety of important we nationally rare and scarce aquatic plants a supports a notable assemblage of breeding a area of shingle and intertidal muds and sar The Site supports an outstanding asseml invertebrates including many British Red supports 68% of vascular plant species described as aquatic. It is probably the bes molluscs, one of the five best sites for ac supports an outstanding assemblage of drago | ndant on this Site is an aquatic Of the many species of water ting are confined to the ditches interest is Britain's largest water hilus piceus (RDB: Rare) which thern part of Britain. Also of dangered), found on Horse Eye tles such as the small reddish- onfined to the coast of southern Odonata) have been recorded a costat (provisional RDB), a ers Dolomedes plantarius (great been recorded. The Site is of wing Vanellus vanellus which the numbers of snipe Gallinago ce Wintering golden plover a schoenobaenus and reed n numbers of local significance. the breeding yellow wagtails is one of the largest and least- in southeast England. The low- a complex system of ditches etland communities, including nd invertebrates. The Site also and wintering wildfowl. A small has is included within the Site. blage of wetland plants and Data Book species. The Site in Great Britain for freshwater quatic beetles Coleoptera and anflies Odonata. | | |
|-------------------------------------|---|---|-----|--|
| De | esk Study: BAP Priority Habitats within 1km | | Di | stance from Site |
| • | Ancient & semi-natural woodland – Pickens Orchard BAP priority habitat – un-named Coastal & floodplain grazing marsh BAP prio Part of the Site is described as " <i>Priority Habi</i> <i>but additional habitat exists</i> " | Wood rity habitat – un-named itat Inventory - No main habitat | • | 640m West 110m East Partially within Site and adjacent South Within Site, north Rattle Rd |
| De | esk Study: Protected and Notable Species with | hin 1km | | |
| Pr Αr Ρiμ Ρiμ Ζc | otected Species oguis fragilis oistrellus pipistrellus oistrellus sp. iturus cristatus ootoca vivipara | Slow worm Common Pipistrelle (45 kHz) b Pipistrelle sp. bat Great crested newt Common lizard 866 | oat | Wooldon Local Plan Sites |

July 2017

Wealden Local Plan Sites Landscape & Ecological Assessment Study

| Sussex BAP Species | |
|---|-----------------------|
| Erinaceus europaeus | European hedgehog |
| | |
| Sussex Rare Species Inventory | |
| Argiope bruennichi | Wasp spider |
| Hydrocharis morsus-ranae | Frogbit |
| Potamogeton acutifolius | Sharp-leaved pondweed |
| Notable Bird Inventory | |
| Alcedo atthis | Kingfisher |
| Ardea cinerea | Grey heron |
| Cettia cetti | Cetti's warbler |
| Falco subbuteo | Hobby |
| Gallinago gallinago | Snipe |
| Milvus | Red kite |
| Tringa totanus | Redshank |
| Tyto alba | Barn owl |
| Vanellus vanellus | Lapwing |
| Invasive Alien Species Inventory | |
| Centranthus ruber | Red valerian |
| Cotoneaster horizontalis | Wall cotoneaster |
| Crassula helmsii | New Zealand pigmyweed |
| Crocosmia pottsii x aurea = C. x crocosmiiflora | Montbretia |
| Elodea nuttallii | Nuttall's Water-Weed |
| Hyacinthoides hispanica | Spanish Bluebell |
| Hydrocotyle ranunculoides | Floating pennywort |
| Rhododendron ponticum | Rhododendron |
| | |

Field Survey: Habitat Description (See Figure 23/712)

Poor semi-improved grassland – The grassland in the two northern fields is species poor. In both fields Yorkshire fog *Holcus lanatus* and common bent *Agrostis capillaris* are the most abundant grasses, although perennial rye-grass *Lolium perenne* is frequent in the north western field and false oat-grass *Arrhenatherum elatius* is locally frequent in the north western. Other grasses include cocksfoot *Dactylis glomerata* and small cat's-tail *Phlem bertolonii*. The south eastern field is a little more rich than the north western, with frequent common sorrel *Rumex acetosa*, meadow buttercup *Ranunculus repens* and ribwort plantain *Plantago lanceolata*, as well as bird's foot trefoil/greater bird's foot trefoil *Lotus corniculatus/pedunculatus*, white and red clover *Trifolium repens* and *pratense*, smooth tare *Vicia tetrasperma*, cinquefoil *Potentilla reptans*, self-heal *Prunella vulgaris*, ribwort plantain *Plantago lanceolata*. This field has been cut and the arisings removed. Forbs in the north western field comprised mostly of white clover, creeping buttercup *Ranunculus repens* and creeping thistle *Cirsium arvense*. This field appears to have been used as pasture and had a short to moderately tall sward.

The field to the south of Rattle Road has been cut but the arisings left in place. The field was not walked over so species composition could not be assessed.

Marshy grassland – This comprises a narrow strip on the southern edge of the north western field. It includes frequent/abundant soft rush *Juncus effusus*, floating Sweet-grass *Clyceria fluitans*, greater bird's foot trefoil, fools water-cress *Apium nodiflorum*, water pepper *Persicaria hydropiper* and water figwort *Scrophularia auriculata* as well as hard, jointed and toad rush *Juncus inflexus*, *articulatus* and *bufonis*, woody nighshade *Solanum dulcamara*, water mint menthe aquatic, redshank Persicaria maculosa, silverweed, hemp agrimony *Eupatoria cannabina*, gysywort *Lycopus europaeus*, marsh thistle *Cirsium palustre* and fleabane *Pulicaria dysentrica*.

Tall ruderal & ephemeral/short perennial – Patchily present along boundaries but there are also stands of nettle, creeping thistle, burdoch *Arctium* sp. and bramble around buildings in the north western field.

This grades into ephemeral/short perennial, including silverweed *Potentilla anserina*, swinecress *Lepidium coronopus*, red goosefoot *Chenopodium rubrum* and field speedwell *Veronica persica* in more trampled areas.

Trees and scrub – There is an area of dense scrub or scrubby woodland, including ash, hawthorn and willows with a field layer of nettle, bramble and ivy, on the northern edge of the field to the south of Rattle Road. This field is bordered by trees and scrub, on the western side including oak, hawthorn and willows, but also much bramble. On the southern and eastern boundaries it comprises largely of mature white and crack willows. There is a stand of mature trees, mostly ash and horse chestnut, in the south western corner of the north western field.

Hedges – The two fields to the north of Rattle Road are enclosed by hedges. These are mostly species rich, with willows, hawthorn, blackthorn, field maple and hazel, but also mature trees, especially ash and oak. However, those on the northern and western boundaries of the north western field are very gappy and the hedges on the western and southern boundaries of the south eastern field are species poor and dominated by hawthorn.

Ditch – Although not surveyed, from OS maps it appears there may be a ditch or watercourse on the southern boundary of the field south of Rattle Road.

Buildings – There is a group of barns and shed in the north western field.

Field Survey: Protected and Notable Species

No species considered notable for their nature conservation value recorded during the Phase I habitat field survey.

Field Survey: Invasive Non-native Species

No invasive non-native species recorded during the survey.

Assessment of Potential for Protected and Notable Species

Great crested newts – There are no ponds within the Site. However, OS maps indicate the presence of a pond or ponds to the west of the southern edge of the field south of Rattle Road, immediately adjacent to and approximately 230m from the Site, although there may be ponds among residential areas closer to the Site. Hedges, scrub, tall ruderal and marshy grassland, for example, represent suitable terrestrial habitat for great crested newts within the Site.

Reptiles – Some potential along boundaries.

Breeding birds – In trees, hedges and scrub.

Wintering birds – Given the size of the fields and their location close to significant areas of grazing marsh and other wetland habitats, including Pevensey Levels SSSI, SAC and Ramsar site, there is potential for the Site to be used by wintering birds such as waders (lapwing, curlew etc.).

Bats – Trees and mature trees in particular, with features such as cracks and cavities, for example including many within the boundary vegetation and hedgerows have potential to be used as roosts. Activity, including foraging and commuting, is likely throughout the Site but especially along its boundaries.

Dormice – Limited potential in hedges.

Water voles – The ditch or watercourse on the southern boundary of the field south of Rattle Road may represent suitable habitat for water voles.

Badgers – Potential for setts along boundaries and within the scrub and hedgerows, but with or without setts badgers may also use any or all of the Site for foraging. However, neither setts nor foraging signs are recorded during the survey.

Recommendations for Further Survey (and optimal survey timings)

Amphibian (including great crested newt) – (March – June) of the ponds to the west of the Site. Reptiles – (May – June, September – October) in suitable habitat throughout the Site. Breeding birds – (April – June) especially woodland, plantations, and hedge. Wintering birds – (September – March) of whole site. **Bats** – (inspections: year round; activity surveys April – October) in the first instance inspection of trees to determine the scope for further survey and activity surveys.

Dormice – (April – November) in suitable habitat.

Water vole – (April/May and September) of the ditch or watercourse on the southern boundary of the field south of Rattle Road.

Badgers – (Year round but Spring / Autumn optimal) of whole site.

INDICATIVE ECOLOGICAL APPRAISAL

Low to Moderate value – mostly species-poor grassland but the marshy grassland and hedges have value. The habitats and features have potential to support notable/protected species.

Impact Avoidance

In order to limit, as far as possible, potentially adverse effects of development including potential harm to the integrity of the wider green infrastructure network, effort should be made to avoid the more ecologically valuable parts of the Site by:

- Retaining the hedges and other boundary vegetation, including the mature trees and their features.
- As far as possible and appropriate retaining and buffering habitats and features supporting notable/protected species, based on the results of more detailed surveys.

Outline Mitigation

Should development at this Site proceed, generic (standard) mitigation for impacts upon habitats and species is set out below. Further detailed or species-specific mitigation may be required dependent upon the outcome of the recommended protected habitat or species surveys.

- Implementation of a Construction and Environmental Management Plan (CEMP) to manage sitespecific issues relating to the potential impacts of construction on ecological features of interest.
- Offset buffers to protect retained habitats (minimum 10m).
- Use of protective fencing to define construction areas and protect retained habitats.
- Avoidance of night-time working wherever possible. When not possible, use directional lighting to prevent lightshed into surrounding habitats.
- Inclusion of mammal ladders or similar in any trenches left open overnight.
- Sealing of pipework overnight, to prevent animals becoming trapped.
- Defined and bunded areas for fuel storage and refuelling to prevent spillages and pollution incidents.
- On-Site spill incident equipment, in the event of spillages of fuel or other materials. Specific measures will be required if any works are close to watercourses and/or waterbodies.
- Buffer the hedges and other boundary vegetation, including the mature trees and their features.
- If great crested newts are found in the ponds to the west of the Site appropriate measures will need to be put in place to prevent harm to them during their terrestrial phase, for example herp fencing the development Site and possibly trapping and translocation to a suitable receptor site.
- If reptiles are found to be present, measures to prevent harm to them, including potentially translocation from the development Site to a suitable receptor site. Where feasible such receptor areas should be incorporated into the new development (for example in buffer strips beside retained hedges, as noted above).
- In light of the potential presence of breeding birds, if possible cutting back or removal of woody vegetation, including trees, shrubs/scrub and hedgerows, as well as disturbance of areas of arable, grassland or ruderal, should not be carried out during the bird breeding season, which is March-August inclusive. If this is not possible then the relevant vegetation/areas should be inspected by a suitably qualified ecologist for the presence of breeding birds prior to the commencement of works.
- New development may need to incorporate bat roosts as alternative or replacement habitat if roosts are likely to be lost.
- Insofar as any proposed development of the Site allows, lighting design, particularly for the periphery

of the Site should be minimised as far as possible. As a minimum, any lighting along Site boundaries that may potentially form important commuting corridors (e.g. hedgerows) or adjacent woodlands that may support bat roosts should make use of backboards and/or internal louvres to ensure light is directed into the Site and light spill into the adjacent areas of retained habitat is minimised.

- If dormice are found to be present the retention and appropriate buffering of woodland (as noted above).
- Development should seek to avoid any prime foraging grounds identified through the badger survey, avoid severance to commuting corridors within territories and avoid any construction works within at least 30m of the nearest badger setts.

Potential Enhancement Opportunities

Opportunities for enhancing, restoring and/or creating new habitats as an integral part of a Site's development that can also contribute to the District's wider ecological /green infrastructure network are identified below:

- Positively and appropriately manage retained habitats and features, including the hedges and boundary vegetation.
- Strengthen boundary vegetation by planting appropriate native species to gap-up existing hedges, as well as creating new ones.
- Habitat creation, ideally located adjacent to retained or adjoining habitat to form habitat corridors or links. To include for example:
 - Wildlife pond(s), included for example as part of a SuDS scheme;
 - Species-rich grassland and associated features for supporting a variety of terrestrial invertebrates;
 - Scrub and trees; and
 - Creation of dead wood habitats and other habitat piles.
- Erection of bat boxes suitable for a range of bat species, on retained trees or incorporated into buildings where they will remain unlit;
- Erection of bird boxes suitable for a range of bird species on retained trees or incorporated into buildings.





WEALDEN LOCAL PLAN: LANDSCAPE & ECOLOGICAL ASSESSMENT OF POTENTIAL SITES WEALDEN DISTRICT COUNCIL

| KEY | |
|--|---------------------------------|
| | Site Assessment Boundary |
| \times | Scattered Scrub |
| • | Broadleaved Tree |
| ₩₩ | Hedge - Intact Species Rich |
| | Hedge - Intact Species Poor |
| | Hedge - Defunct Species Poor |
| ₩₩₩₩ | Hedge - Species Rich with Trees |
| | Dense Scrub |
| $\boldsymbol{\mathcal{N}}$ | Marsh / Marshy Grassland |
| SI | Poor Semi-improved Grassland |
| \sim | Tall Ruderal |
| $\stackrel{K\timesX\timesX}{K\timesX}$ | Ephemeral/Short Perennial |

FIGURE 23/712 STONE CROSS - Site Ref 712/3280 - PHASE 1 HABITAT PLAN

100 Metres

50