



**WAKEFIELD ROAD, MAPPLEWELL,
BARNSELY.**

OS REF: SE 340 098.

EXTENDED PHASE I HABITAT SURVEY.

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1. INTRODUCTION.

1.1. There are plans to develop an area of land off Wakefield Road, Mapplewell, Barnsley. The site is a former factory site, an area of grassland to the east and an area of dense scrub to the north.

1.2. Whitcher Wildlife Ltd carried out a protected fauna survey of the site on 2nd July 2008. Further protected fauna surveys of the site were carried out on 20th October 2009 and 12th March 2014.

1.3. Whitcher Wildlife Ltd has been commissioned to update the survey and to carry out an Extended Phase I Habitat Survey of the site to establish whether there are any issues that may affect the proposed works.

1.4. The site survey was carried out on 15th June 2016 and this report outlines the findings of that survey and makes appropriate recommendations.

1.5. Appendices I to V of this report provide additional information on specific species and are designed to assist the reader in understanding the contents of this report.

2. SURVEY METHODOLOGY.

2.1. Prior to visiting the site the survey area was cross referenced to maps and aerial photographs to give a general idea of the habitats and potential issues within the area and to identify potential access and walking routes.

2.2. The survey area was walked where access was agreed and public rights of way were used where no access was agreed. All habitats within and immediately around the survey area were documented and the dominant species within that habitat listed in line with the JNCC Handbook for Phase 1 Habitat surveys.

2.3. The survey area and immediate surrounding area was thoroughly searched for evidence of badger (*Meles meles*) activity by looking for the following signs in line with Harris S, Cresswell P and Jefferies D (1989). *Surveying Badgers*. Mammal Society:-

- * Badger setts.
- * Badger latrines or dung pits.
- * Badger snuffle holes and evidence of foraging.
- * Badger paths.
- * Badger prints in areas of soft mud.
- * Badger hairs caught on fencing.

2.4. The survey area was searched for watercourses and where found all watercourses within the survey area and for approximately 50m in each direction were thoroughly searched for evidence of water vole (*Arvicola amphibius*) activity by looking for the following signs, in line with Rob Strachan, Tom Moorhouse and Merryl Gelling (2011). *Water Vole Handbook: Third Edition*:-

- * Water vole burrows.
- * Water vole faeces and latrines.
- * Water vole feeding stations.
- * Water vole runs.
- * Water vole prints in areas of soft mud.
- * Water vole lawns.
- * Predator field signs.

2.5. The survey area was searched for watercourses and where found all watercourses within the survey area and for approximately 50m in each direction were thoroughly searched for evidence of otter (*Lutra lutra*) activity by looking for the following signs in line with the P Chanin (2003). *Monitoring the Otter and Conserving Natura 2000 Rivers: Monitoring Series No10 Guidelines:-*

- * Otter prints in soft mud.
- * Otter spraints.
- * Otter Holts.

2.6. The survey area was searched for watercourses and waterbodies. Where found, and where safe to enter the water, all were thoroughly searched for the presence of crayfish, for approximately 50m in each direction of the site, by searching under rocks and logs. Where stated, crayfish traps were also deployed into the watercourse. All survey work was carried out in accordance with the *Conserving Natural 2000 Rivers Monitoring Series No 1, Protocol for Monitoring the White Clawed Crayfish*.

2.7. The survey area was searched for mature trees and derelict buildings and where found these were checked for potential bat roosting sites in line with Collins, J. (ed.) (2016) *Bat Surveys for Professional Ecologists: Good Practice Guidelines (3Prd edition)* by looking for the following signs:-

- * Holes, cracks or crevices.
- * Bat Droppings.

2.8. The land immediately adjacent to the survey area was assessed for bat roosting potential and bat foraging potential. Connective routes and flight lines were also assessed whilst on site and using maps of the area.

2.9. The area within 500m of the survey site was cross referenced to maps to highlight all ponds close to the site. Where possible, all ponds identified were accessed using agreed access or public rights of way to assess the potential for great crested newts (*Triturus cristatus*) to be present.

2.10. The survey area was assessed for the potential for reptiles and suitable reptile habitats. Where applicable the area was also searched for the presence of reptiles.

2.11. Where appropriate, the habitat within and surrounding the survey area was searched for species such as hazel, oak, honeysuckle, bramble and other species which may provide potential habitat for hazel dormice (*Muscardinus avellanarius*). Field signs such as feeding remains and nests were also searched for where possible,

in line with P Bright, P Morris and T Mitchell-Jones *The Dormouse Conservation Handbook 2nd Edition*.

2.12. Where appropriate, the area within and surrounding the survey area was assessed for its potential to house habitat for red squirrels. Field signs of red squirrels were searched for at least every 50m, looking for any dreys, feeding signs or sightings of red squirrels.

2.13. All surveys were carried out in line with the Chartered Institute of Ecological and Environmental Management (CIEEM) survey standards and advice.

2.14. This survey was carried out by Jenny Whitcher Roebuck MCIEEM. Since 2001 Jenny has had experience in a professional capacity as a Wildlife Consultant carrying out Ecology Surveys and Phase 1 Habitat surveys. Jenny holds Natural England Survey Licences in respect of bats, great crested newts, crayfish and barn owls, CCW and SNH Survey Licences in respect of bats and great crested newts. She has also successfully completed a number of courses run by the Chartered Institute of Ecology and Environmental Management (CIEEM), the Bat Conservation Trust (BCT) and the Field Studies Council (FSC) in the relative protected species, plant species and in carrying out Phase 1 Habitat Surveys. As a full member of CIEEM she is committed to continuous professional development, a continual process of learning and career development, a condition of CIEEM membership.

3. SURVEY RESULTS.

3.1. Data Search Results.

3.1.1. A data search was requested from Barnsley Biological Records Centre for records of protected species and designated sites within 2km of the survey area.

3.1.2. There are records of great crested newts in the Barnsley Canal 1.4km to the southwest of the survey area. There are no records of this species any nearer to the site and there are no ponds within a 1km of the survey area.

3.1.3. There are records of three species of bat, Noctule, Daubenton's and Pipistrelle. All records are over 1km from the site. There are no records specific to the site.

3.1.4. There are a number of red list bird species within 2km of the survey area but again these records are all over 1km from the site and mainly to the southwest.

3.1.5. There are no records of protected species relevant to the site.

3.1.6. The Barnsley Canal at Wilthorpe is a Local Wildlife Site and this is located 1.4km to the southwest of the survey area.

3.1.7. The full data search results can be found in Appendix XI of this report.

3.2. The Surveyed Area.

3.2.1. The site is a redundant rubber factory. During the previous surveys carried out in 2008 and 2009 the factory buildings were still present, covering half the site. The factory was demolished approximately six years ago. The site of the buildings is now piles of rubble, which are beginning to become overgrown. Areas of scattered scrub and grassland cover the rest of the site.

3.2.2. The aerial photograph below, taken in September 2008, shows the survey area within the red line. This also shows the buildings still present.



3.3. Description of Habitats.

3.3.1. Appendix VI of this report contains annotated maps marked up with the varying habitats that are cross referenced to target notes in Appendix VII of this report. The habitats on and adjacent to the site are:-

- Neutral Grassland and Tall Ruderal
- Tall Ruderal
- Short Ephemeral
- Scattered Scrub
- Dense Continuous Scrub
- Scattered Trees
- Bracken
- Hedgerow Native Species Poor
- Hedgerow with Trees, Native Species Poor
- Standing Water
- Fence
- Wall
- Bare Ground

3.3.2. Neutral Grassland and Tall Ruderal

3.3.2.1. At the eastern side of the site there is a large area of a mosaic of grassland and tall ruderal herbs with some areas of scattered scrub.

3.3.2.2. The main grass species present in this area are barren brome (*Bromus sterilis*), tufted hair grass (*Deschampsia cespitosa*), Yorkshire Fog (*Holcus lanatus*) and cocks foot (*Dactylis glomerata*).

3.3.2.3. Other species present are greater willowherb (*Epilobium hirsutum*), rosebay willowherb (*Chamerion angustifolium*), coltsfoot (*Tussilago farfara*), cow parsley (*Anthriscus sylvestris*), nettle (*Urtica dioica*), thistle (*Cirsium sp(p)*), ribwort plantain (*Plantago lanceolata*), sow thistle (*Sonchus oleraceus*), dock (*Rumex acetosella*), red clover (*Trifolium pretense*), dandelion (*Taraxacum officinale*), ragwort (*Senecio jacobaea*), mugwort (*Artemisia vulgaris*), herb Robert (*Geranium robertianum*), goosegrass (*Eleusine indica*), yarrow (*Achillea millefolium*), biting stonecrop (*Sedum acre*), dog rose (*Rosa canina*), buddleia (*Buddleja davidii*), greater plantain (*Plantago major*), red valerian (*Centranthus ruber*), bittersweet (*Solanum dulcamara*), birds foot

trefoil (*Lotus corniculatus*), ox eye daisy (*Leucanthemum vulgare*), great lettuce (*Lactuca sativa*), hogweed (*Heracleum sphondylium*), bush vetch (*Vicia sepium*), Common Spotted Orchid (*Dactylorhiza fuchsia*), Northern Marsh Orchid (*Dactylorhiza purpurella*), elder (*Sambucus nigra*), bramble (*Rubus fruticosus*), sapling silver birch (*Betula pendula*), sapling hawthorn (*Crataegus monogyna*), sapling goat willow (*Salix caprea*), bracken (*Pteridium aquilinum*), dead nettle (*Lamiun purpureum*), soft rush (*Juncus effuses*).

3.3.2.4. Two photographs looking over the area of grassland and tall ruderal herbs showing the species present.



3.3.3. Tall Ruderal

3.3.3.1. Alongside Wakefield Road at the northwestern side of the site there is an area of tall ruderal herbs, mainly nettle (*Urtica dioica*), cow parsley (*Anthriscus sylvestris*), some bracken (*Pteridium aquilinum*) and occasional hawthorn (*Crataegus monogyna*), elder (*Sambucus nigra*) and dog rose (*Rosa canina*).

3.3.3.2. Photograph looking north along Wakefield Road from the access road.



3.3.4. Short Ephemeral

3.3.4.1. The western side of the site where the buildings have been demolished leaving areas of rubble and tarmac is becoming overgrown with plants growing in broken areas of tarmac and in the piles of rubble.

3.3.4.2. The main species present in this area greater willowherb (*Epilobium hirsutum*), rosebay willowherb (*Chamerion angustifolium*), coltsfoot (*Tussilago farfara*), cow parsley (*Anthriscus sylvestris*), nettle (*Urtica dioica*), thistle (*Cirsium sp(p)*), ribwort plantain (*Plantago lanceolata*), sow thistle (*Sonchus oleraceus*), dock (*Rumex acetosella*), red clover (*Trifolium pretense*), dandelion (*Taraxacum officinale*), ragwort (*Senecio jacobaea*), mugwort (*Artemisia vulgaris*), herb Robert (*Geranium robertianum*), goosegrass (*Eleusine indica*), yarrow (*Achillea millefolium*), biting stonecrop (*Sedum acre*), dog rose (*Rosa canina*), buddleia (*Buddleja davidii*), greater plantain (*Plantago major*), red valerian (*Centranthus*

ruber), bittersweet (*Solanum dulcamara*), birds foot trefoil (*Lotus corniculatus*), ox eye daisy (*Leucanthemum vulgare*), great lettuce (*Lactuca sativa*), hogweed (*Heracleum sphondylium*), bush vetch (*Vicia sepium*), Common Spotted Orchid (*Dactylorhiza fuchsia*), Northern Marsh Orchid (*Dactylorhiza purpurella*), elder (*Sambucus nigra*), bramble (*Rubus fruticosus*), sapling silver birch (*Betula pendula*), sapling hawthorn (*Crataegus monogyna*) and sapling goat willow (*Salix caprea*).

3.3.4.3. Photograph showing species growing in the tarmac and the rubble.



3.3.4.4. Photograph looking west across the area of tarmac and rubble showing the area is becoming overgrown.



3.3.5. Scattered Scrub

3.3.5.1. There are a number of areas of scattered scrub across the eastern side of the site. This is mainly areas of bramble (*Rubus fruticosus*), dog rose (*Rosa canina*), hawthorn (*Crataegus monogyna*), sapling silver birch (*Betula pendula*) and sapling goat willow (*Salix caprea*).

3.3.5.2. Photograph looking east showing some of the scattered scrub on the site.



3.3.6. Dense Continuous Scrub

3.3.6.1. Either side of the access road into the site there is an area of scrub with occasional conifer trees and shrubs. The species present include hawthorn (*Crataegus monogyna*), lilac (*Lilac vulgaris*), dog rose (*Rosa canina*), heather (*Ericoids spp.*), two types of hebe (*Hebe sp.*), sapling silver birch (*Betula pendula*) and elder (*Sambucus nigra*).

3.3.6.2. There are other species growing below this scrub, including thistle (*Cirsium sp(p)*), nettle (*Urtica dioica*), yarrow (*Achillea millefolium*), cotton lavender (*santolina chamaecyparissus*), Yorkshire fog (*Holcus lanatus*), cow parsley (*Anthriscus sylvestris*), dandelion (*Taraxacum officinale*), greater willowherb (*Epilobium hirsutum*), mugwort (*Artemisia vulgaris*), rosebay willowherb (*Chamerion angustifolium*) and ox-eye daisy (*Leucanthemum vulgare*).

3.3.6.3. In the southwest corner of the site there is an area of scrub consisting of bramble (*Rubus fruticosus*), hawthorn (*Crataegus monogyna*), elder (*Sambucus nigra*), sapling and semi-mature silver birch (*Betula pendula*) and goat willow (*Salix caprea*).

3.3.6.4. Along the northern edge of the site there is a large area of dense scrub. This is mainly bramble (*Rubus fruticosus*), hawthorn (*Crataegus monogyna*), dog rose (*Rosa canina*), elder (*Sambucus nigra*), semi-mature oak (*Quercus sp(p)*), silver birch (*Betula pendula*) and goat willow (*Salix caprea*).

3.3.6.5. The two photographs below shows the area of dense scrub at the northern edge of the site.



3.3.7. Scattered Trees

3.3.7.1. There are a number of scattered trees and a few on the site. These trees include apple (*Malus domestica*), oak (*Quercus sp(p)*), silver birch (*Betula pendula*) and weeping willow (*Salix babylonica*).

3.3.7.2. The photograph below shows two large weeping willow trees to the north of the site entrance on the western side of the site.



3.3.8. Bracken

3.3.8.1. There are two areas of bracken (*Pteridium aquilinum*) on the site. One at the northwest corner of the site and one on the eastern edge of the site.

3.3.8.2. Photograph showing the area of bracken at the northwest corner of the site.



3.3.9. Hedgerow Native Species Poor

3.3.9.1. At the western side of the site there is a large unmanaged conifer hedgerow between the site and the adjacent road.

3.3.9.2. The photograph below looks north showing the hedgerow at the western side of the site.



3.3.10. Hedgerow with Trees, Native Species Poor

3.3.10.1. Along the south, southeast and east site boundaries there are broken hedgerows consisting of semi-mature and small mature trees. The species present include goat willow (*Salix caprea*), crack willow (*Salix fragilis*), cherry (*Prunus sp(p)*), oak (*Quercus sp(p)*), silver birch (*Betula pendula*), black poplar (*Populus nigra*), hawthorn (*Crataegus monogyna*), elder (*Sambucus nigra*) and apple (*Malus domestica*).

3.3.10.2. Photograph showing the southern boundary.



3.3.10.3. Photograph showing the eastern boundary.

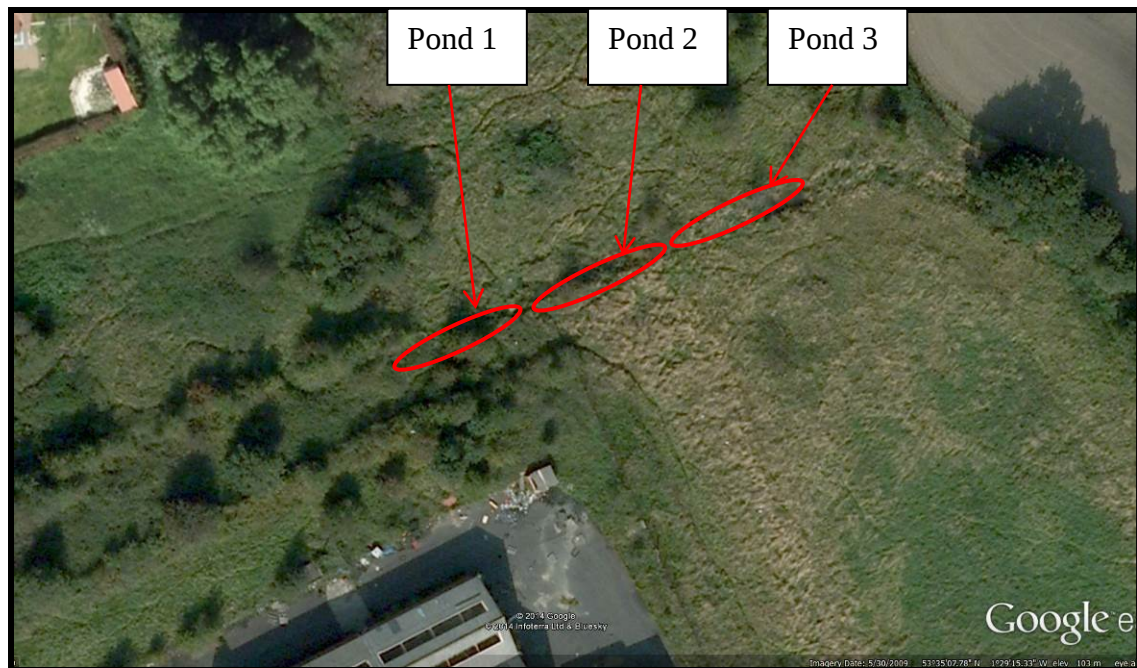


3.3.11. Standing Water

3.2.11.1. Three ponds were identified on the site during all four surveys.

3.2.11.2. The ponds are all narrow and long and in a line suggesting that this was once a ditch which has become filled in and now forms three ponds. All three ponds are approximately 20m long and 2m wide.

3.2.11.3. The photograph below shows the approximate locations of the three ponds.



3.3.11.4. During this survey the ponds all contained water but there had been a week of heavy rain prior to this survey.

3.3.11.5. All three ponds are very overgrown with bulrush (*Typha latifolia*) and soft rush (*Juncus effuses*) and the vegetation around the ponds. During the survey in 2014 tadpoles were seen in Ponds 1 and 2. Due to the vegetation growing the ponds could not be thoroughly searched during this survey.

3.3.11.6. The photograph below looks west along Pond 2 showing the dense vegetation growing.



3.3.11.7. During the survey in 2014 a Habitat Suitability Index (HSI) Assessment was carried out of the three ponds. This is included below as the vegetation during this survey restricted access to the ponds. The ponds do not appear to have changed.

3.3.11.8. The table below shows the HSI scores for each of the ponds. This is a method of calculating the potential presence of great crested newts in a pond by awarding points against specified criteria. An explanation of the HSI criteria is included in Appendix IX of this report.

HSI		Pond 1	Pond 2	Pond 3
SI1	Location	1	1	1
SI2	Pond Area	0.1	0.1	0.1
SI3	Pond Drying	0.1	0.1	0.1
SI4	Water Quality	0.67	0.67	0.33
SI5	Shade	0.4	1	1
SI6	Fowl	1	1	1
SI7	Fish	1	1	1
SI8	Ponds	0.55	0.55	0.55
SI9	Terrestrial Habitat	1	1	1
SI10	Macrophytes	0.8	0.8	0.8
Total score		0.51	0.56	0.52
Presence		Below Average	Below Average	Below Average

3.3.11.9. All three ponds scored below average on the HSI assessment. Statistically, only a low number of ponds which score below average contain great crested newts.

3.3.12. Fence

There are a number of fences around the site, mainly post and mesh, but all the fences are in a poor state with large sections missing or fallen over.

3.3.13. Wall

At the western side of the site there is a small section of brick wall either side of the access onto the site which is becoming overgrown with scrub.

3.3.14. Bare Ground

3.3.14.1. There is a tarmac access road leading to a tarmac road which once lead around the buildings but now leads round the piles of rubble. There is also a tarmac car park to the south of the access road.

3.3.14.2. Where the buildings once stood at the western side of the site there are now large piles of rubble and concrete bases. These areas are becoming overgrown with short ephemeral and tall ruderal herbs.



3.4. Description of Fauna.

3.3.1. No badger setts or badger field signs were identified within the survey area.

3.3.2. No watercourses were identified within the survey area. Therefore, there is no habitat for water voles, otters or white clawed crayfish within the survey area.

3.3.3. Three ponds were identified on the site. During this survey and the survey carried out in July 2008 and the survey carried out in March 2014 the ponds contained approximately 150mm of water. During the survey carried out in October 2009 all three ponds were totally dry.

3.3.4. During the survey in 2014 a Habitat Suitability Index (HSI) Assessment was carried out of the three ponds. This is included below as the vegetation during this survey restricted access. However, the ponds do not appear to have changed. All three ponds scored below average on the HSI assessment. Statistically, only a low number of ponds which score below average contain great crested newts.

3.3.5. No other ponds were identified within 1km of the survey area whilst on site or on an Ordnance Survey Map of the area. These three ponds are isolated. All three ponds dry up annually and are clearly transient ponds that dry up quickly. Therefore, the ponds are assessed as unsuitable habitat for great crested newts.

3.3.6. There are no longer any buildings on the site and there are no large mature trees. Therefore, there is no suitable habitat for roosting bats within the survey area.

3.3.7. The overall site has low bat foraging opportunities. However, the tree lines along the site boundaries have potential for commuting and foraging bats, especially the southern boundary and the disused railway to the south of the site. Proposed plans show many of the tree lines remaining and a new tree line being created east to west across the center of the site. However, a thorough assessment of bat activity could not be carried out during a daytime survey of the site.

3.3.8. The vegetation within the survey area provides opportunities for nesting birds during the nesting season, which extends from March to September each year. No active nests were identified during this survey but abundant bird activity was seen and heard on the site.

3.3.9. The western part of the site provides potential habitat for reptiles due to abundant refugia and basking sites, although no reptiles were identified during this survey.

3.3.10. No suitable dormouse habitat was identified during this survey.

3.3.11. No red squirrels or red squirrel field signs were identified during this survey and there is no suitable habitat within the survey area.

3.3.12. Two small Cotoneaster plants were identified on the northern side of the tarmac roads which ran round the buildings. Cotoneaster is an invasive species of plant listed under Schedule 9 of The Wildlife and Countryside Act 1981 and it is an offence to cause the plants to spread. Cotoneaster spreads by berries that are present through the winter. No other invasive plant species were identified.

3.3.12.1. The photograph below shows one of these plants on the northern side of the tarmac road.



3.3.13. During the previous surveys of the site Common Spotted Orchids were identified on the eastern side of the site.

3.3.13.1. During this survey Common Spotted Orchids and Northern Marsh Orchids were identified on the site both at the eastern side of the site but now growing across the southern side of the site with orchids growing in gaps and cracks in the tarmac.

3.3.13.2. Some types of orchid have higher levels of protection in the UK but these two species are more common and only have protection from being uprooted without permission from the landowner or occupier.

4. EVALUATION OF FINDINGS.

4.1. No designated sites were identified within the area surrounding the site to be impacted upon by works. No protected species were identified during either data search to be present on site, although there is potential for them to be present within the surrounding areas; most notably, for water voles to be present in the adjacent Canal and Beck to the south of the site. The Barnsley Canal at Wilthorpe is a Local Wildlife Site and this is located 1.4km to the southwest of the survey area, however this will remain totally unaffected by the proposed works.

4.2. The habitats on site provide a range of ecological values from low to high, some habitats on site are also considered to be Habitats of Principal Importance in accordance with Section 41 of the NERC act, the hedgerows and ponds on the site.

4.3. The highest ecological value on site is found within the site boundaries, hedgerows and trees lines. Despite hedgerow being classed as species poor, they are considered to be a Habitat of Principal importance. The hedgerows and trees themselves will provide habitats for a range of species from invertebrates to birds and will provide further foraging and commuting opportunities for species such as bats. Removal of these features will have a high ecological impact.

4.4. Areas of standing water are also considered to be Habitats of Principal Importance. This will refer to the three ponds identified on the site. These areas are of low ecological value as the ponds are very small and isolated and will provide a habitat for a limited number of species. Any works affecting these areas will also be considered to have a low ecological impact.

4.5. The scrub areas of site will further provide moderate ecological value due to the abundance of opportunities it provides for a range of species.

4.6. The grassland habitats present within the site have been assessed to be of moderate ecological value as this is unmanaged and will provide habitats for a range of species, mainly birds and invertebrates. Any works to affect these areas will have a moderate impact upon the ecological value of the site.

4.7. No badger setts or badger field signs were identified within the survey area. Therefore, there will be no impact on badgers during the proposed works.

4.8. No watercourses were identified within the survey area. Therefore, there will be no impact on water voles, otters or crayfish during the proposed works.

4.9. Three ponds were identified on the site. No other ponds were identified within 1km of the survey area whilst on site or on an Ordnance Survey Map of the area. The three ponds present on site are assessed as unsuitable great crested newt habitat as they dry up annually and are totally isolated. Therefore, there will be no impact on great crested newts during the proposed works.

4.10. There are no longer any buildings on the site and there are no large mature trees. Therefore, there will be no impact on roosting bats during the proposed works.

4.11. The overall site has a low level of bat foraging opportunities. However, the tree lines along the site boundaries have potential for commuting and foraging bats, especially the southern boundary and the disused railway to the south of the site. Proposed plans show many of the tree lines remaining and a new tree line being created east to west across the center of the site. Therefore, the proposed works will have little impact on foraging bats.

4.12. The vegetation within the survey area provides opportunities for nesting birds during the nesting season, which extends from March to September, inclusive, each year. Vegetation clearance within the nesting bird season will have an impact on any birds nesting within the work site.

4.13. The western part site offers potential habitat for reptiles due to the piles of rubble which have been left on the site from the demolished buildings. These are becoming overgrown. Therefore, if there are reptiles present within the piles of rubble the works will have a high impact on any reptiles within the work site.

4.14. No suitable dormouse habitat was identified during this survey. Therefore, there will be no impact on dormice during the proposed works.

4.15. No red squirrels or red squirrel field signs were identified during this survey and there is no suitable habitat within the survey area. Therefore, there will be no impact on red squirrels during the proposed works.

4.16. Two small Cotoneaster plants were identified on the northern side of the tarmac roads, which run round the buildings. Cotoneaster is an invasive species of plant listed under Schedule 9 of The Wildlife and Countryside Act 1981 and it is an offence to cause the plants to spread. These plants will have a low impact on the proposed works.

5. RECOMMENDATIONS.

5.1. The site has overall been assessed to provide moderate ecological value. The development plans provided show the retention of most of the hedgerows and the tree lines with additional tree lines and tree planting shown on the site. It is assessed that the development will have an overall low impact upon the ecological value of the site as the highest value habitats, hedgerows and tree lines, will be retained and additional hedgerows and tree lines will be planted on the site.

5.2. As tadpoles were identified in the ponds on the site it is recommended that any works that will affect the ponds is done during the winter months when there will be no amphibians breeding or young present in the ponds. All personnel on the site are briefed on the possible presence of amphibians on the site, how to identify amphibians and where they are likely to be found. Any amphibians found must be moved to a place of safety. In the unlikely event a great crested newt is found during the works, work must stop and professional advice sought immediately.

5.3. The overall site is quite exposed and has low potential for foraging bats but the tree lines along the site boundaries have potential for bat flight paths, especially the southern boundary and the disused railway to the south of the site. It is recommended that the tree lines are left, where possible, especially on the southern and eastern sides of the site. The proposed site plans show that the main tree lines will remain and a new tree line will be created west to east across the center of the site. These tree lines will provide flight paths for bats to use.

5.4. It is recommended that any lighting on the proposed site is kept away from the tree lines and the southern site boundary where possible. If any lighting is to be put up near to the tree lines it must be low and down lighting to prevent light interference to any bats using the tree lines as a flight path.

5.5. There are no bat roosts present on the site but it is recommended that bat roost opportunities are built into some of the new housing on the site in the form of bat bricks or gaps between fascia boards and walls to enable bats to roost in the space behind the fascia boards. This will provide biodiversity enhancements.

5.6. Any vegetation clearance should be carried out outside the nesting bird season, which extends from March to September each year.

5.7. If any vegetation clearance is to be carried out during the nesting bird season a thorough nesting bird survey must be carried out immediately prior to works

commencing. If any active nests are found during this survey they must be left undisturbed until the young have fledged. This could put a considerable delay on proposed works.

5.8. The site provides suitable habitat for reptiles due to the rubble piles left on site when the buildings were demolished. Therefore, it is recommended that full reptile surveys are carried out on the site to determine whether reptiles are present.

5.9. Reptile surveys can be carried out between March and June and in September and October, with the peak survey months being April, May and September. The surveys will require a number of reptile mats to be laid out across the site and seven separate visits are required to check under the mats for the presence of reptiles.

5.10. Should reptiles be identified on the site a mitigation strategy will be written and submitted to supplement this report. This will outline all mitigation measures that will be implemented before and during the development process and will be tailored according to the numbers, locations and species of the reptiles identified.

5.11. The Cotoneaster plants on the site should be dug up and chipped during the summer months when there are no berries on the plants.

5.12. The Common Spotted Orchids and Northern Marsh Orchids on the site have no protection. However the plants appear to thrive in this area. The development plan for the site shows an area at the eastern edge of the site that will not be developed. It is recommended that, as part of the new development, an area of damp open space is created in this area and that some of both species of orchid are re-planted into this area as part of the landscaping scheme for the site.

5.13. The development plan for the site shows an area at the eastern edge of the site that will not be developed. It is recommended that one or two small ponds are created in this area to compensate for the loss of the three small ponds on the site. Tadpoles were identified in these ponds during the survey in 2014 showing that frogs use the ponds to breed.

Prepared by:	
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Checked by:	
Derek Whitcher. BSc, MCIEEM, MCMI.	Date: 21 st June 2016.

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Appendix I. BAT INFORMATION.

It is necessary to understand a little about bats, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

18 species of bat currently reside in Britain, 17 of which are known to breed here. They are extremely difficult to identify in the hand and even more so in flight.

All appear to be diminishing in numbers, probably due to shortage of food, caused by pesticides, as insects are their sole diet, and habitat change.

As their diet consists solely of insects, bats hibernate during the winter when their food source is at its most scarce. They will spend the winter in hollow trees, caves, mines and the roofs of buildings.

Certain species, particularly the pipistrelle (the commonest and most widespread British bat) can quickly adapt to manmade structures and will readily use these to roost and to rear their young.

Bats are protected under the Wildlife and Countryside Act 1981, Regulation 41 of The Conservation of Habitats and Species Regulations 2010, and the Countryside & Rights of Way Act 2000.

It is an offence to intentionally or recklessly kill, injure or capture or disturb bats or to damage, destroy or obstruct access to any place used by bats for shelter or protection.

A breeding or resting site of any bat is known as a bat roost. A bat roost is therefore any structure a bat uses for shelter or protection. Because bats tend to use the same roosts each year, legal opinion is that the roost site is protected whether or not the bats are present at that time.

Bat roosts can be identified by looking for:-

- Suitable holes, cracks and crevices.
- Bat droppings.
- Prey remains.
- By carrying out night observations using a bat detector.

Where development proposals are likely to affect a bat roost site, a licence is required from Natural England.

The person applying for that licence has to be suitably qualified and experienced in bat matters. That person is then responsible for ensuring that the measures contained in the licence are carried out.

Appendix II. NESTING BIRD INFORMATION.

It is necessary to understand a little about the legal protection offered to nesting birds in order to evaluate the findings of this report.

Part 1.-(1) Of the Wildlife and Countryside Act 1981 states that:-

If any person intentionally:-

- (a) kills, injures or takes any wild bird;
 - (b) takes, damages or destroys the nest of any wild bird while that nest is in use or being built; or
 - (c) takes or destroys an egg of any wild bird,
- he shall be guilty of an offence.

Part 1.-(5) of the Act states that:-

If any person intentionally:-

- (a) disturbs any wild bird included in Schedule 1 while it is building a nest or is in, on, or near a nest containing eggs or young; or
- (b) disturbs dependant young of such a bird,

he shall be guilty of an offence and liable to a special penalty.

The Countryside and Rights of Way Act 2000 amends the above by inserting after “intentionally” the words “or recklessly”.

The nesting season will vary according to the weather each year but generally commences in March, peaks during May and June and continues until September.

It is also worth remembering that some birds nest in trees, scrub and buildings but others are ground nesting.

The best way to avoid this issue is to plan for vegetation clearance to be carried out outside the bird-nesting season.

Appendix III.

REPTILES - GRASS SNAKE AND ADDER INFORMATION.

The grass snake (*Natrix natrix*) and the adder (*Vipera berus*) are the two most common snakes to be found in the UK. Adders are found all over Britain while the grass snake becomes rarer towards the north and are rarely found in Scotland.

The grass snake is usually around 120cm long, live in a variety of rough habitats and lay their eggs in warm rotting vegetation. The background colour is dark green and the body is marked with vertical black bars and spots that run along its sides. There is generally a dark collar marking.

The adder is the only native species that is venomous but this is rarely harmful to humans. Adult adders are generally up to 66cm long. Background colouration is a light shade of grey or brown with a black zigzag marking along the length of the back. As with all reptiles, colouration varies and becomes duller as sloughing (skin shedding) approaches.

Both snakes hibernate, spending the winter in burrows or under logs protected from the cold and predators. Maintaining the right body temperature is vital to reptiles' survival. In the morning, they find a warm basking site to heat up their bodies, then later they may move back into the shade because they do not sweat and have to be careful not to overheat. During hot summers, adders will try to move to damper, cooler sites.

Both snakes are protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

Appendix IV. REPTILES - LIZARD INFORMATION.

The common or viviparous lizard (*Lacerta vivipara*) is one of three species of lizard that occur in the UK. They have a dry scaly skin and are variable in colour ranging from brown or yellow-brown to almost green with varying patterns of spots or stripes. The typical length of an adult is 150mm, including the tail.

Common lizards hibernate over the winter, emerging from February onwards depending upon the weather. They begin to mate in April and May and the young are born in late July or August. The lizard gives birth to live young, hence the term viviparous, meaning live bearing.

The lizards draw their body warmth from the sun and consequently spend long periods basking in the sun. They are commonly seen on road and railway embankments and on walls where they sit for long periods soaking up the heat of the sun before going to find food.

They occupy a wide range of habitats including woodland, marshes, heathland, moors, sand dunes, hedgerows and bogs.

Common lizards hunt insects, spiders, snails and earthworms. They stun their prey by shaking it and then swallow it whole.

At night, and when startled, they will shelter beneath logs or stones or under other refuges that may be available.

Common lizards are protected under schedule 5 of the Wildlife and Countryside Act 1981 (they received greater protection following reviews of the schedules published in 1988 and 1991) and Schedule 2 of The Conservation of Habitats and Species Regulations 2010 (as amended) making it a European Protected Species.

Common lizards should not be confused with the somewhat larger sand lizard (*Lacerta agilis*). These are typically 190mm long and stockier than the common lizard. Their marking are distinctly different being considerably more colourful. Sand lizards are confined to moorland and coastal sand dunes where they lay their eggs in the warm sand. The range of the sand lizard in the UK is therefore very limited. Sand lizards are a European protected species.

The third species of lizard is the slow worm (*Anguis fragilis*), which is frequently mis-identified as a snake. The firm body of the slow worm is distinctly cylindrical in shape and the tiny smooth scales result in a very smooth, shiny appearance. Colouration is typically a uniform grey to brown although there is a wide variation from straw coloured to almost black and some animals have very fine stripes or a zig-zag along the centre of the back. The typical length of an adult is 400mm.

Slow worms can be found in a wide variety of habitats throughout Britain and is the most likely reptile to be found in urban and suburban environments.

Slow worms hibernate over the winter, emerging from March onwards depending upon the weather. They begin to mate in April and May and six to twelve young are born in August or September.

Their favourite food is slugs but they will also eat insects and spiders.

Slow worms are hard to find. They will bask in the sun but they quickly and quietly move into cover when disturbed and do not generally attract attention as they retreat from a basking spot.

Slow worms are also protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

Appendix V. SCHEDULE 9 INVASIVE PLANT SPECIES.

1. Schedule 9 of the Wildlife and Countryside Act 1981 contains a list of invasive species of plant. Species listed under Schedule 9 are prohibited from release into the wild. Schedule 9, Section 14(2) prohibits 'planting' or 'causing to grow' in the wild of any plant listed in Part 2 of Schedule 9.

2. The following is a list of all the species of plant listed under Schedule 9 of The Wildlife and Countryside Act 1981.

Common Name	Latin Name
Alexanders, Perfoliate	<i>Smyrniium perfoliatum</i>
Algae, Red	<i>Grateloupia luxurians</i>
Archangel, Variegated Yellow	<i>Lamiastrum galeobdolon</i> subsp. <i>Argentatum</i>
Azalea, Yellow	<i>Rhododendron luteum</i>
Balsam, Himalayan	<i>Impatiens glandulifera</i>
Cotoneaster	<i>Cotoneaster horizontalis</i>
Cotoneaster, Entire Leaved	<i>Cotoneaster integrifolius</i>
Cotoneaster, Himalayan	<i>Cotoneaster simonsii</i>
Cotoneaster, Hollyberry	<i>Cotoneaster bullatus</i>
Cotoneaster, Small Leaved	<i>Cotoneaster microphyllus</i>
Creeper, False Virginia	<i>Parthenocissus inserta</i>
Creeper, Virginia	<i>Parthenocissus quinquefolia</i>
Dewplant, Purple	<i>Disphyma crassifolium</i>
Fanwort (Carolina Water-Shield)	<i>Cabomba caroliniana</i>
Fern, Water	<i>Azolla filiculoides</i>
Fig, Hottentot	<i>Carpobrotus edulis</i>
Garlic, Three-cornered	<i>Allium triquetrum</i>
Hogweed, Giant	<i>Heracleum mantegazzianum</i>
Hyacinth, Water	<i>Eichhornia crassipes</i>
Kelp, Giant	<i>Macrocystis pyrifera</i>
Kelp, Giant	<i>Macrocystis angustifolia</i>
Kelp, Giant	<i>Macrocystis integrifolia</i>
Kelp, Giant	<i>Macrocystis laevis</i>
Kelp, Japanese	<i>Laminaria japonica</i>
Knotweed, Giant	<i>Fallopia sachalinensis</i>

Knotweed, Hybrid	<i>Fallopia japonica</i> x <i>Fallopia sachalinensis</i>
Knotweed, Japanese	<i>Fallopia japonica</i>
Leek, Few-flowered	<i>Allium paradoxum</i>
Lettuce, Water	<i>Pistia stratiotes</i>
Montbretia	<i>Crocasmia</i> x <i>crocosmiiflora</i>
Parrot's Feather	<i>Myriophyllum aquaticum</i>
Pennywort, Floating	<i>Hydrocotyle ranunculoides</i>
Potato, Duck	<i>Sagittaria latifolia</i>
Primrose, Floating Water	<i>Ludwigia peploides</i>
Primrose, Water	<i>Ludwigia grandiflora</i>
Primrose, Water	<i>Ludwigia uruguayensis</i>
Rhododendron	<i>Rhododendron ponticum</i>
Rhododendron	<i>Rhododendron ponticum</i> x <i>Rhododendron maximum</i>
Rhubarb, Giant	<i>Gunnera tinctoria</i>
Rose, Japanese	<i>Rosa rugosa</i>
Salvinia, Giant	<i>Salvinia molesta</i>
Seafingers, Green	<i>Codium fragile</i>
Seaweed, Californian Red	<i>Pikea californica</i>
Seaweed, Hooked Asparagus	<i>Asparagopsis armata</i>
Seaweed, Japanese	<i>Sargassum muticum</i>
Seaweeds, Laver (except native species)	<i>Porphyra</i> spp except
	<i>p. amethystea</i>
	<i>p. leucosticte</i>
	<i>p. linearis</i>
	<i>p. miniata</i>
	<i>p. purpurea</i>
	<i>p. umbilicalis</i>
Stonecrop, Australian Swamp (New Zealand Pygmyweed)	<i>Crassula helmsii</i>
Wakame	<i>Undaria pinnatifida</i>
Waterweed, Curly	<i>Lagarosiphon major</i>
Waterweeds	<i>All species of the genus Elodea</i>

3. The Government has acknowledged the problems that can be caused by non-native invasive species. In 2008 the Government launched "The Invasive Non-Native

Species Framework Strategy for Great Britain”. The strategy provides a framework for a more co-ordinated approach to invasive species management. It seeks to create a stronger sense of shared responsibility across government, key organisations, land managers and the public.

4. The Non Native Species Secretariat has been established to oversee the implementation of the strategy. Details of the secretariat including risk assessments and action plans for some species are available at www.nonnativespecies.org.

5. In general there are four basic methods of controlling weeds; mechanical, chemical, natural and environmental.

5.1. Mechanical control includes cultivation, hoeing, pulling, cutting, raking dredging or other methods to uproot or cut weeds.

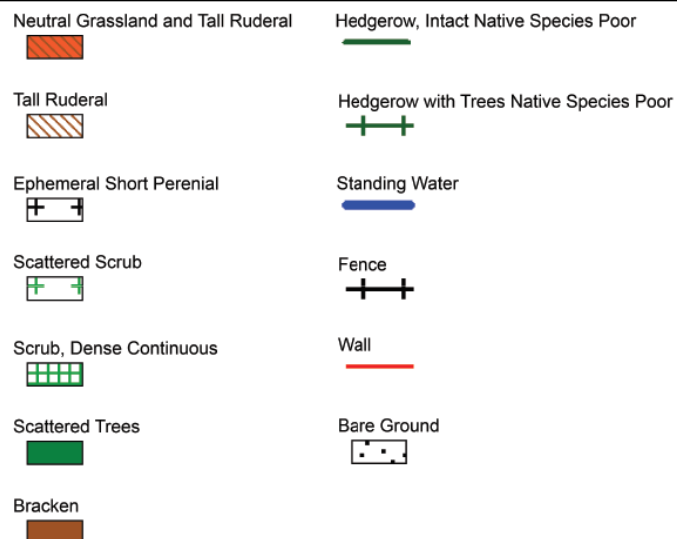
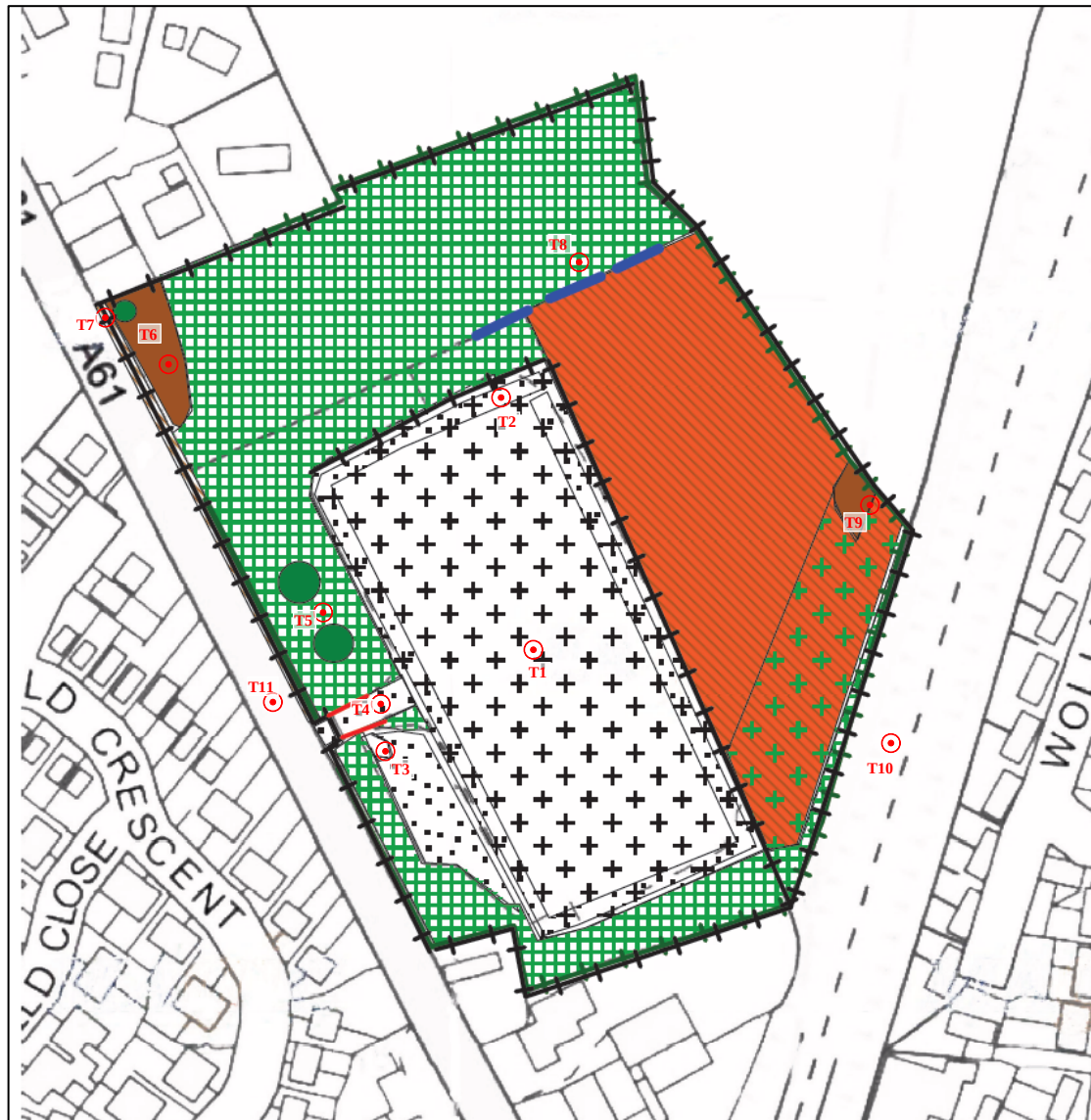
5.2. Where this method is used all plant material must be considered “controlled waste” and must be disposed properly.

5.3. Chemical control uses approved herbicides.

5.4. Natural control uses pests and diseases of the target weed to weaken it and prevent it from becoming a nuisance.

5.5. Environmental control works by altering the environment to make it less suitable for weed growth, for example by increasing or decreasing water velocity.

Appendix VI. ANNOTATED MAP OF THE SURVEY AREA.



Appendix VII. TARGET NOTES.

T1 – This is the large area of rubble where the buildings have been demolished which is becoming overgrown with ephemeral short perennials.

T2 – This is the tarmac road which once ran around the buildings.

T3 – A hole in the tarmac of the car park which is growing ephemeral short perennials, including a large number of orchids.

T4 – The access road onto the site.

T5 – Two large weeping willow trees in an area of dense bramble scrub.

T6 – A large area of bracken.

T7 – A large apple tree.

T8 – These are the three ponds identified on the site.

T9 – The location of an electricity pylon located within the site.

T10 – A disused railway line which runs adjacent to the site with tree covered embankments.

T11 – Wakefield Road running adjacent to the site.

Appendix VIII. SPECIES LISTS.

Neutral Grassland and Tall Ruderal

Species.	DAFOR Assessment.
barren brome (<i>Bromus sterilis</i>)	F
tufted hair grass (<i>Deschampsia cespitosa</i>)	F
Yorkshire Fog (<i>Holcus lanatus</i>)	D
cocks foot (<i>Dactylis glomerata</i>)	A
greater willowherb (<i>Epilobium hirsutum</i>)	A
rosebay willowherb (<i>Chamerion angustifolium</i>)	F
coltsfoot (<i>Tussilago farfara</i>)	O
cow parsley (<i>Anthriscus sylvestris</i>)	F
nettle (<i>Urtica dioica</i>)	A
thistle (<i>Cirsium sp(p)</i>)	F
ribwort plantain (<i>Plantago lanceolata</i>)	A
sow thistle (<i>Sonchus oleraceus</i>)	O
dock (<i>Rumex acetosella</i>)	F
red clover (<i>Trifolium pretense</i>)	F
dandelion (<i>Taraxacum officinale</i>)	A
ragwort (<i>Senecio jacobaea</i>)	F
mugwort (<i>Artemisia vulgaris</i>)	F
herb Robert (<i>Geranium robertianum</i>)	O
goosegrass (<i>Eleusine indica</i>)	F
yarrow (<i>Achillea millefolium</i>)	F
dog rose (<i>Rosa canina</i>)	O
buddleia (<i>Buddleja davidii</i>)	A
greater plantain (<i>Plantago major</i>)	F
bittersweet (<i>Solanum dulcamara</i>)	O
birds foot trefoil (<i>Lotus corniculatus</i>)	O
ox eye daisy (<i>Leucanthemum vulgare</i>)	O
hogweed (<i>Heracleum sphondylium</i>)	O
bush vetch (<i>Vicia sepium</i>)	O
Common Spotted Orchid (<i>Dactylorhiza fuchsia</i>)	O
Northern Marsh Orchid (<i>Dactylorhiza purpurella</i>)	F
elder (<i>Sambucus nigra</i>)	O
bramble (<i>Rubus fruticosus</i>)	A

silver birch (<i>Betula pendula</i>)	O
hawthorn (<i>Crataegus monogyna</i>)	F
goat willow (<i>Salix caprea</i>)	F
bracken (<i>Pteridium aquilinum</i>)	O
dead nettle (<i>Lamium purpureum</i>)	O
soft rush (<i>Juncus effuses</i>)	O

Tall Ruderal

Species.	DAFOR Assessment.
nettle (<i>Urtica dioica</i>)	D
cow parsley (<i>Anthriscus sylvestris</i>)	A
bracken (<i>Pteridium aquilinum</i>)	O
hawthorn (<i>Crataegus monogyna</i>)	O
elder (<i>Sambucus nigra</i>)	O
dog rose (<i>Rosa canina</i>)	O

Short Ephemeral

Species.	DAFOR Assessment.
barren brome (<i>Bromus sterilis</i>)	O
tufted hair grass (<i>Deschampsia cespitosa</i>)	A
Yorkshire Fog (<i>Holcus lanatus</i>)	A
cocks foot (<i>Dactylis glomerata</i>)	O
greater willowherb (<i>Epilobium hirsutum</i>)	A
rosebay willowherb (<i>Chamerion angustifolium</i>)	A
coltsfoot (<i>Tussilago farfara</i>)	O
cow parsley (<i>Anthriscus sylvestris</i>)	F
nettle (<i>Urtica dioica</i>)	D
thistle (<i>Cirsium sp(p)</i>)	A
ribwort plantain (<i>Plantago lanceolata</i>)	O
sow thistle (<i>Sonchus oleraceus</i>)	O
dock (<i>Rumex acetosella</i>)	O
red clover (<i>Trifolium pretense</i>)	O
dandelion (<i>Taraxacum officinale</i>)	O
ragwort (<i>Senecio jacobaea</i>)	O
mugwort (<i>Artemisia vulgaris</i>)	O
herb Robert (<i>Geranium robertianum</i>)	O

goosegrass (<i>Eleusine indica</i>)	O
yarrow (<i>Achillea millefolium</i>)	O
biting stonecrop (<i>Sedum acre</i>)	O
dog rose (<i>Rosa canina</i>)	F
buddleia (<i>Buddleja davidii</i>)	O
greater plantain (<i>Plantago major</i>)	O
red valerian (<i>Centranthus ruber</i>)	O
bittersweet (<i>Solanum dulcamara</i>)	O
birds foot trefoil (<i>Lotus corniculatus</i>)	A
ox-eye daisy (<i>Leucanthemum vulgare</i>)	O
great lettuce (<i>Lactuca sativa</i>)	O
hogweed (<i>Heracleum sphondylium</i>)	O
bush vetch (<i>Vicia sepium</i>)	O
Common Spotted Orchid (<i>Dactylorhiza fuchsia</i>)	O
Northern Marsh Orchid (<i>Dactylorhiza purpurella</i>)	F
elder (<i>Sambucus nigra</i>)	F
bramble (<i>Rubus fruticosus</i>)	F
sapling silver birch (<i>Betula pendula</i>)	O
hawthorn (<i>Crataegus monogyna</i>)	F
goat willow (<i>Salix caprea</i>)	F

Scattered Scrub

Species.	DAFOR Assessment.
bramble (<i>Rubus fruticosus</i>)	D
dog rose (<i>Rosa canina</i>)	A
hawthorn (<i>Crataegus monogyna</i>)	A
silver birch (<i>Betula pendula</i>)	F
goat willow (<i>Salix caprea</i>)	F

Dense Continuous Scrub

Species.	DAFOR Assessment.
hawthorn (<i>Crataegus monogyna</i>)	D
lilac (<i>Lilac vulgaris</i>)	R
dog rose (<i>Rosa canina</i>)	A
heather (<i>Ericoids spp.</i>)	R

hebe (<i>Hebe sp.</i>)	R
silver birch (<i>Betula pendula</i>)	F
elder (<i>Sambucus nigra</i>)	F
thistle (<i>Cirsium sp(p)</i>)	F
nettle (<i>Urtica dioica</i>)	F
yarrow (<i>Achillea millefolium</i>)	F
cotton lavender (<i>santolina chamaecyparissus</i>)	R
Yorkshire fog (<i>Holcus lanatus</i>)	F
cow parsley (<i>Anthriscus sylvestris</i>)	F
dandelion (<i>Taraxacum officinale</i>)	O
greater willowherb (<i>Epilobium hirsutum</i>)	F
mugwort (<i>Artemisia vulgaris</i>)	F
rosebay willowherb (<i>Chamerion angustifolium</i>)	F
ox-eye daisy (<i>Leucanthemum vulgare</i>)	O
bramble (<i>Rubus fruticosus</i>)	A
goat willow (<i>Salix caprea</i>)	A
oak (<i>Quercus sp(p)</i>)	O

Scattered Trees

Species.	DAFOR Assessment.
apple (<i>Malus domestica</i>)	A
oak (<i>Quercus sp(p)</i>)	D
silver birch (<i>Betula pendula</i>)	F
weeping willow (<i>Salix babylonica</i>)	O

Bracken

Species.	DAFOR Assessment.
bracken (<i>Pteridium aquilinum</i>)	D

Hedgerow Native Species Poor

Species.	DAFOR Assessment.
conifer	D

Hedgerow with Trees, Native Species Poor

Species.	DAFOR Assessment.
goat willow (<i>Salix caprea</i>)	A
crack willow (<i>Salix fragilis</i>)	O
cherry (<i>Prunus sp(p)</i>)	O
oak (<i>Quercus sp(p)</i>)	F
silver birch (<i>Betula pendula</i>)	F
black poplar (<i>Populus nigra</i>)	A
hawthorn (<i>Crataegus monogyna</i>)	D
elder (<i>Sambucus nigra</i>)	A
apple (<i>Malus domestica</i>)	O

Standing Water

Species.	DAFOR Assessment.
bulrush (<i>Typha latifolia</i>)	A
soft rush (<i>Juncus effuses</i>)	A

Appendix IX. HABITAT SUITABILITY INDEX INFORMATION.



Amphibian and Reptile Groups of the United Kingdom ARG UK Advice Note 5

www.arguk.org

Great Crested Newt Habitat Suitability Index

May 2010

Background

The Habitat Suitability Index (HSI) for the great crested newt was developed by Oldham *et al.* (2000). HSI scoring systems were originally developed by the US Fish and Wildlife Service as a means of evaluating habitat quality and quantity. An HSI is a numerical index, between 0 and 1. Values close to 0 indicate unsuitable habitat, 1 represents optimal habitat. The HSI for the great crested newt incorporates ten suitability indices, all of which are factors known to affect this species. These ten suitability indices are retained in this current Advice Note.

In the HSI system proposed by Oldham *et al.* (2000) one of the suitability indices (SI₉, terrestrial) involves more lengthy measurement and calculation than the others. In using the HSI system with volunteer surveyors in Kent, Lee Brady has substituted a simpler evaluation of terrestrial habitat quality (a four-point scale), for ease of use.

Several other, local, surveys have utilised the HSI, but incorporating their own variations on the original system. In 2007 a workshop was held at the Herpetofauna Workers' Meeting to evaluate the use of the HSI for the great crested newt, with the aims of:

- Identifying components of the system that may need clarification or refinement
- Agreeing on a standard that can readily be used by volunteers and professionals alike.

The outputs of the workshop and subsequent consultation have been used to formulate the current Advice Note. As far as possible a conservative approach has been adopted in modifying the use of the original HSI suitability indices. However, a major departure is the adoption of Lee Brady's four-point evaluation of terrestrial habitat. This differs from the original HSI in that it has been developed with respect to newt presence/absence at a pond, rather than estimating population size.

Use and limitations of the HSI

The HSI for great crested newts is a measure of habitat suitability. **It is not a substitute for newt surveys.** In general, ponds with high HSI scores are more likely to support great crested newts than those with low scores. However, the system is not sufficiently precise to conclude that any particular pond with a high score will support newts, or that any pond with a low score will not do so.

There is a positive correlation between HSI scores and the numbers of great crested newts observed. In general, high HSI scores are likely to be associated with greater numbers of great crested newts. The relationship is not sufficiently strong, however, to allow estimations of the numbers of newts in any particular pond.

HSI scoring can be useful in:

- Evaluating the general suitability of a pond, or ponds, for great crested newts
- Comparing general suitability of ponds across different areas
- Evaluating the suitability of receptor ponds in a proposed mitigation scheme
- Identifying habitat management priorities.

How to collect data and calculate the HSI

The HSI is a geometric mean of ten suitability indices:

$$HSI = (SI_1 \times SI_2 \times SI_3 \times SI_4 \times SI_5 \times SI_6 \times SI_7 \times SI_8 \times SI_9 \times SI_{10})^{1/10}$$

- Ten factors are scored for a pond, in the field and from map work (field scores).
- The ten field scores are converted to SI scores, on a scale from 0.01 to 1 (0.01 is used as the lower end of the scale instead of 0, because multiplying by 0 reduces all other SI scores to 0).
- The ten SI scores are multiplied together.
- The tenth root of this number is calculated ($x^{1/10}$) i.e. x to the power of 0.1.

The calculated HSI for a pond should score between 1 and close to 0 (the calculations above do not allow the HSI to be exactly 0).

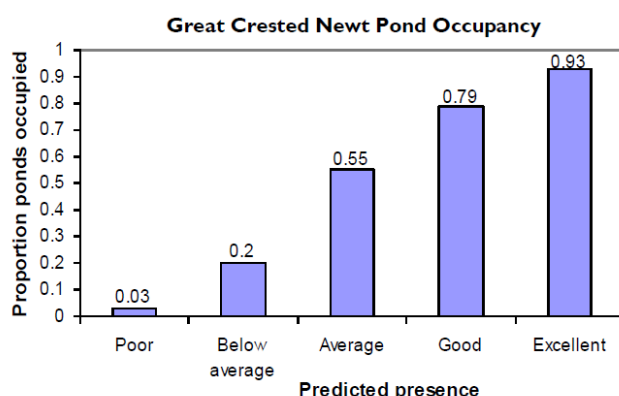
Some of the field scores are categorical, some are numerical. The numerical field scores are converted to SI scores by reading off the values from graphs produced by Oldham *et al.* (2000) reproduced in this Advice Note.

Full details of the scoring system, including descriptions of the criteria used in the categorical scores are given in *Details of suitability indices and definitions of categories* (below). Scores for two of the factors (SI₁ and SI₈) can be gained as desktop/map exercises and so do not have to be completed in the field. The remaining factors should be recorded as field scores, and later converted to suitability indices, in some cases reading SI scores from the graphs provided. A summary of data to collect is given in the appendix *Summary of scoring system*.

Categorisation of HSI scores

Lee Brady has developed a system for using HSI scores to define pond suitability for great crested newts on a categorical scale:

HSI	Pond suitability
< 0.5	= poor
0.5-0.59	= below average
0.6-0.69	= average
0.7-0.79	= good
> 0.8	= excellent



The graph shows occupancy of ponds by great crested newts in south-east England. 248 ponds were surveyed on three to six occasions, using egg-searching, torching and bottle-trapping. As pond suitability increases from 'poor' to 'excellent', so does the proportion of ponds occupied by great crested newts.

Details of suitability indices and definitions of categories

Factor 1. Geographic location (SI₁)

Sites should be scored according to the zone in which they occur. This scoring can be carried out either in the field, or as part of a desktop exercise.

Zone A, location is optimal, SI = 1

Zone B, location is marginal, SI = 0.5

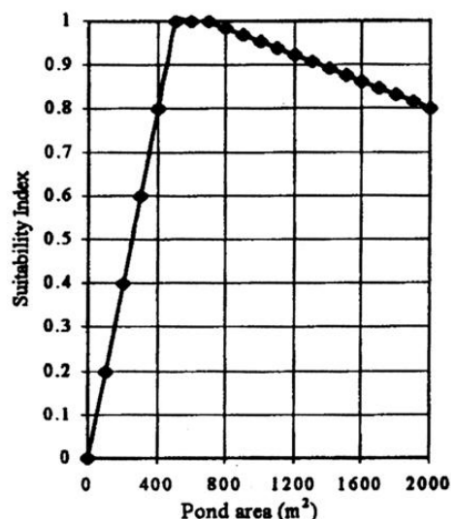
Zone C, location is unsuitable, SI = 0.01.

Some sites will fall on boundary lines between zones. In such cases, select medium-value scores i.e. Zone B.



Factor 2. Pond area

Pond area is the surface area of the pond when water is at its highest level (excluding flooding events). This is usually in the spring. If the pond is being measured at another time of year, the spring time area should still be evident from vegetation types and evidence of a draw down zone around the pond.



Pond area should be measured as accurately as possible. There are several ways of doing this, for example by measuring axes of regularly shaped ponds, either by pacing out in the field, or taking measurements from a map. Irregularly shaped ponds may have to be treated as a series of geometric shapes, calculating the area for each and adding together.

Since it can be difficult reading off SI scores from the graph, pond area should be rounded to the nearest 50 m².

It can be particularly difficult to read off SI scores for very small ponds. For ponds smaller than 50 m² use a score of 0.05.

For ponds larger than 2000 m² omit this factor from the HSI calculation (as there are no data for such large ponds).
i.e. $HSI = (SI_1 \times SI_3 \times SI_4 \times SI_5 \times SI_6 \times SI_7 \times SI_8 \times SI_9 \times SI_{10})^{1/9}$.

Factor 3. Permanence

Pond permanence should be deduced from local knowledge and personal judgement. A landowner may know how often a pond dries. However, if not, the surveyor should make a judgement based on water level at the time of the survey, and taking seasonality into consideration. For example, a pond that is already dry by late spring is likely to dry out every year, etc.

Category	SI	Criteria
Never dries	0.9	Never dries.
Rarely dries	1.0	Dries no more than two years in ten or only in drought.
Sometimes dries	0.5	Dries between three years in ten to most years.
Dries annually	0.1	Dries annually.

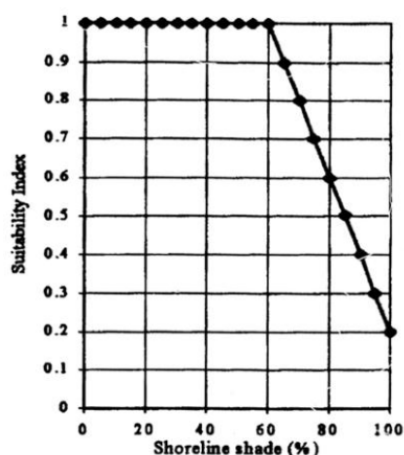
Factor 4. Water quality

The assessment of water quality is subjective and should be based on invertebrate diversity, the presence of submerged water plants and knowledge of the water sources feeding the pond. Water quality should not be confused with water clarity. Sometimes clear water can be devoid of invertebrates, and turbid ponds can support a wealth of invertebrates. There is no quick and simple invertebrate index of water quality. However, some species are indicators of water quality.

Category	SI	Criteria
Good	1.0	Water supports an abundant and diverse invertebrate community. Netting reveals handfuls of diverse invertebrates, including groups such as mayfly larvae and water shrimps.
Moderate	0.67	Moderate invertebrate diversity
Poor	0.33	Low invertebrate diversity (e.g. species such as midge and mosquito larvae). Few submerged plants.
Bad	0.01	Clearly polluted, only pollution-tolerant invertebrates (such as rat-tailed maggots), no submerged plants.

Other cues may also provide information about water quality. For example, ponds subject to agricultural inputs are likely to have poor water quality.

Factor 5. Shade



Estimate percentage pond perimeter shaded, to at least 1m from the shore. Shading is usually from trees, but can include buildings. Shading should not include emergent pond vegetation. The estimate should be made during the period from May to the end of September.

Factor 6. Waterfowl

This factor is concerned with the impact of waterfowl upon the pond and newts. At high densities, as created when waterfowl are encouraged to use a pond by provision of food, the birds can remove all aquatic vegetation, pollute water and persistently stir sediments. Some waterfowl may also actively hunt adult newts and their larvae. Score as one of three categories.

Category	SI	Criteria
Absent	1	No evidence of waterfowl impact (moorhens may be present).
Minor	0.67	Waterfowl present, but little indication of impact on pond vegetation. Pond still supports submerged plants and banks are not denuded of vegetation.
Major	0.01	Severe impact of waterfowl. Little or no evidence of submerged plants, water turbid, pond banks showing patches where vegetation removed, evidence of provisioning waterfowl.

'Waterfowl' includes most water birds, such as ducks, geese and swans. Moorhens should be excluded because almost every pond has at least one or two.

Factor 7. Fish

Information on fish should be gleaned from local knowledge and the surveyor's own observations. Pond owners will usually be aware of stocking with fish for commercial or aesthetic reasons. However, stickleback (which can be significant predators of great crested newt larvae, when present in large numbers) are unlikely to be deliberately introduced to a pond, but may arrive through other means. Netting is useful in detecting smaller fish, such as sticklebacks, or the fry of larger species.

Category	SI	Criteria
Absent	1	No records of fish stocking and no fish revealed by netting or observed by torchlight.
Possible	0.67	No evidence of fish, but local conditions suggest that they may be present.
Minor	0.33	Small numbers of crucian carp, goldfish or stickleback known to be present.
Major	0.01	Dense populations of fish known to be present.

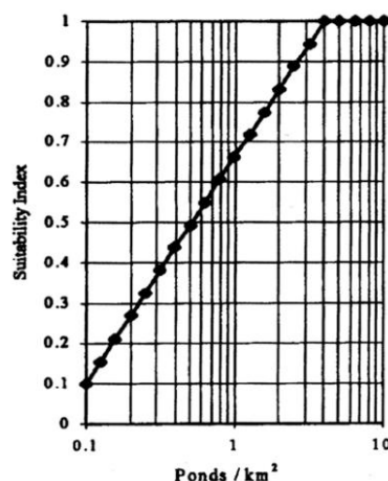
Factor 8. Pond count

This is the number of ponds occurring within 1 km of survey pond. Do not count the survey pond itself. Ponds on the far side of major barriers, such as main roads, should not be counted. Use 1:25,000 scale O.S. data, such as Explorer maps, GIS or web-based mapping sources, such as:

Getamap www.ordnancesurvey.co.uk/oswebsite/getamap/
 Magic www.magic.gov.uk/site_map.html
 Digimap edina.ac.uk/digimap/

Pond counts can be carried out by a survey coordinator and so do not necessarily have to be performed by surveyors.

Divide the number of ponds by π (3.14) to calculate the density of ponds per km² and read off the SI value from graph.



Factor 9. Terrestrial habitat

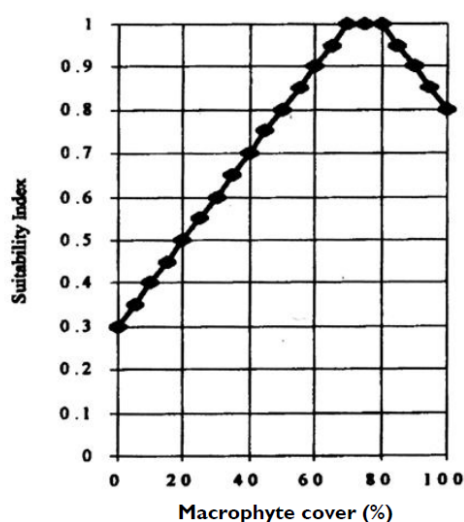
Scoring terrestrial habitat depends on the surveyor's understanding of newt habitat quality. Good terrestrial habitat offers cover and foraging opportunities and includes meadow, rough grassland with tall sward height, scrub, woodland or mature gardens. Terrestrial habitat should be considered within approximately 250 m from the pond, but only on the near side of any major barriers to dispersal (e.g. main roads or large expanses of bare habitat).

Category	SI	Criteria
Good	1	Habitat that offers good opportunities for foraging and shelter (e.g. most semi-natural environments, such as rough grassland, scrub or woodland, also brownfield sites and low intensity farmland) covers more than 75% of available area.
Moderate	0.67	Habitat offers opportunities for foraging and shelter but may not be extensive (25-75%) of available area.
Poor	0.33	Habitat with poor structure (e.g. amenity grassland, improved pasture and arable) that offers limited opportunities (less than 25% of available area) for foraging and shelter.
None	0.01	No suitable habitat around pond (e.g. centre of arable field or large expanse of bare habitat).

Great crested newts do not have specific terrestrial habitat requirements. However, good quality terrestrial habitat has structure. The presence of hedges, ditches, stone walls, old farm buildings, piles of loose stone or rock, rabbit burrows and small mammal holes all contribute towards 'good' terrestrial habitat. Note that it is rare to encounter a pond falling within the terrestrial habitat category of 'none'.

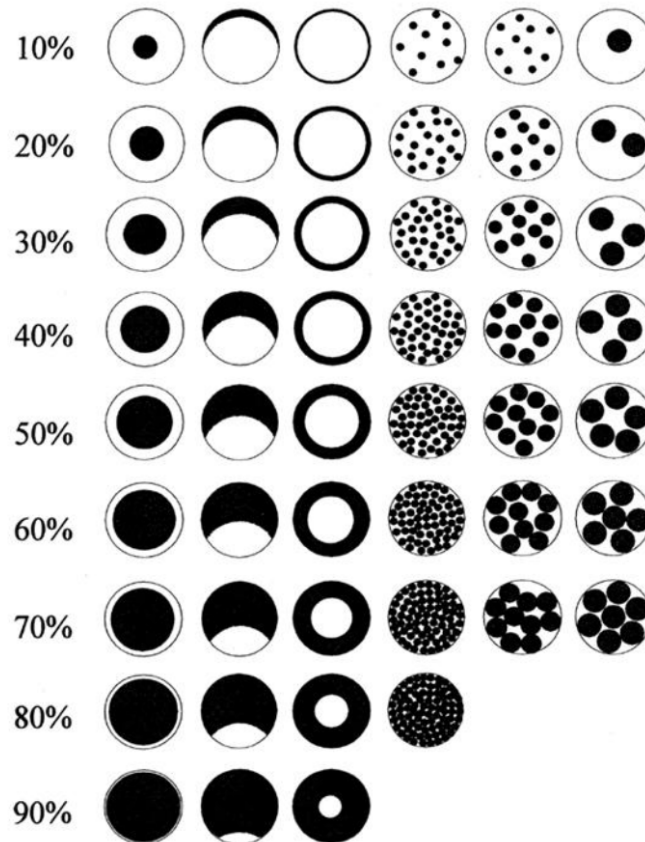
Factor 10. Macrophytes

Estimate the percentage of the pond surface area occupied by macrophyte cover. This includes emergents, floating plants (excluding duckweed) and submerged plants reaching the surface. Make an estimate between March and the end of September. Read off the SI value from graph.



Guide for assessment of macrophyte cover in a pond

The areas of dark shading simulate a variety of vegetation dispersion patterns.



Reference

Oldham R.S., Keeble J., Swan M.J.S. & Jeffcote M. (2000). Evaluating the suitability of habitat for the Great Crested Newt (*Triturus cristatus*). *Herpetological Journal* 10(4), 143-155.

This Advice Note is an output from a workshop held at the Herpetofauna Workers' Meeting in January 2007. ARG UK is grateful to Lee Brady, Rob Oldham, David Sewell and John Baker for leading the workshop and/or contributing to this note, and workshop participants for providing useful suggestions. ARG UK is also grateful to the British Herpetological Society for permission to use graphics from the original paper on HSI, published in the *Herpetological Journal*.

This Advice Note can be downloaded from the ARG UK website www.arguk.org and should be cited as: ARG UK (2010). ARG UK Advice Note 5: Great Crested Newt Habitat Suitability Index. Amphibian and Reptile Groups of the United Kingdom.

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ARG UK is the network of volunteer conservation groups concerned with the native amphibians and reptiles of the UK.



amphibian and reptile
conservation



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FOUNDATION



Summary of scoring system

SI₁ Location

Field score	SI
A (optimal)	1
B (marginal)	0.5
C (unsuitable)	0.01

SI₂ Pond area

Field score	SI
Measure pond surface area (m ²) and round to nearest 50 m ²	Read off graph.

SI₃ Pond drying

Field score	SI	Criteria
Never	0.9	Never dries
Rarely	1.0	Dries no more than two years in ten or only in drought.
Sometimes	0.5	Dries between three years in ten to most years
Annually	0.1	Dries annually

SI₄ Water quality

Field score	SI	Criteria
Good	1.0	Abundant and diverse invertebrate community.
Moderate	0.67	Moderate invertebrate diversity
Poor	0.33	Low invertebrate diversity, few submerged plants
Bad	0.01	Clearly polluted, only pollution-tolerant invertebrates, no submerged plants.

SI₅ Shade

Field score	SI
Estimate percentage perimeter shaded to a least 1 m from shore.	Read off graph.

SI₆ Fowl

Field score	SI	Criteria
Absent	1	No evidence of water fowl (although moorhen may be present)
Minor	0.67	Waterfowl present, but little sign of impacts
Major	0.01	Severe impact of waterfowl

SI₇ Fish

Category	SI	Criteria
Absent	1	No records of fish stocking and no fish revealed during survey.
Possible	0.67	No evidence of fish, but local conditions suggest that they may be present.
Minor	0.33	Small numbers of crucian carp, goldfish or stickleback known to be present.
Major	0.01	Dense populations of fish known to be present.

SI₈ Pond count

Field score	SI
Count the number of ponds within 1 km of the survey pond (not separated by major barriers) and divide by 3.14. This can be done from maps rather than in the field.	Read off graph.

SI₉ Terrestrial habitat

Category	SI
Good	1
Moderate	0.67
Poor	0.33
None	0.01

SI₁₀ Macrophytes

Field score	SI
Estimate the percentage of the pond surface area occupied by macrophyte cover (between May and the end of September)	Read off graph.

Appendix X. DEVELOPMENT PLAN.

PIPESTONE LTD

COMMERCIAL UNITS

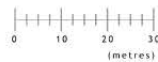
OFFICE	2no.	6000	sft	12000
A	2no.	4000	sft	8000
B	1no.	9000	sft	9000
C	1no.	3750	sft	3750
D	1no.	3500	sft	3500
E	1no.	7750	sft	7750
F	1no.	2500	sft	2500
G	2no.	6000	sft	12000
H	1no.	6000	sft	6000

Total : 12 units

Total sqft : 64500



PROPOSED DEVELOPMENT,
MAPPLEWELL, Nr BARNESLEY



Appendix XI. DATA SEARCH RESULTS.

<i>Grid Ref</i>	<i>Location</i>	<i>Location Name</i>	<i>Date</i>	<i>Group</i>	<i>Scientific Name</i>	<i>Common Name</i>	<i>BAP Species</i>	<i>Wildlife and Countryside Act</i>	<i>Red and Amber birds</i>	<i>Comments</i>
SE3372208381	Barnsley Canal general	Willowbank	01/04/2016 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	seen in floating pennywort presumably using it as a foraging/egg-laying medium
SE335085	Darton pond 6		25/09/2011 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	1 female
SE335085	Barnsley Canal at Wilthorpe LWS	western part	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	ad female and 3 juveniles during torch survey
SE336084	Barnsley Canal at Wilthorpe LWS	western part	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	9 male torch survey
SE336084	Darton	pond 8	06/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	eggs
SE3372708366	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	egg, found in pool within the canal isolated by fringing vegetation.
SE3355908513	Barnsley Canal at Wilthorpe LWS	Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	male juvenile
SE3356308515	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	3 juvenile recorded during torch survey
SE3356308515	Barnsley Canal at Wilthorpe	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	adult female seen during torch survey

	LWS									
SE3367208436	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus cristatus	Great Crested Newt	1.00	1.00	0.00	9 male seen during torch survey
SE3270108924	Darton Sewage Treatment Works	Darton Sewage Works	04/04/2016 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	migrating across land adjacent to wet wood and river
SE3210	Darton	19 Darton Hall Drive	01/01/1995 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	reported by J S Booth
SE344080	Barnsley Canal general	Wilthorpe	13/04/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	
SE3402708227	Barnsley Canal at Wilthorpe LWS	Old course of River Dearne at Wilthorpe	16/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	Tadpoles, many seen
SE3442707981	Barnsley Canal at Wilthorpe LWS	Eastern part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	Tadpole
SE3396108237	Barnsley Canal at Wilthorpe LWS	Old course of River Dearne at Wilthorpe	16/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	juvenile
SE339082	Wilthorpe Marsh	old course of River Dearne	16/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	torch survey
SE334086	Darton	pond 7	06/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	tadpoles
SE336089	Darton	pond 14	06/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	tadpoles
SE338087	Darton	Darton pond 13	06/05/2012 00:00	amphibian	Bufo bufo	Common Toad	1.00	1.00	0.00	1 juvenile and tadpoles
SE3309	North Gawber	Eastern part of the site	01/08/2013 00:00	terrestrial mammal	Nyctalus noctula	Noctule	1.00	1.00	0.00	Commuting.
SE350115	Royston	Applehaigh View, 63	31/05/1994 00:00	terrestrial mammal	Nyctalus noctula	Noctule	1.00	1.00	0.00	
SE3308	Old Town	Willowbank	18/06/1988 00:00	terrestrial mammal	Nyctalus noctula	Noctule	1.00	1.00	0.00	

SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Streptopelia turtur	Turtle Dove	1.00	0.00	1.00	
SE3411	'BARNSELY MBC'	Barnsley	20/05/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	2 Count
SE3308	Wilthorpe Marsh		01/01/2007 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	2	29/04/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	singing males
SE3308	Wilthorpe Marsh	7	29/04/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	singing males
SE3308	Wilthorpe Marsh		13/12/2009 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	
SE3411	Royston		23/06/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	1 Count
SE3411	Royston		28/07/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	1 Count
SE3411	Royston		23/03/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	1 Count
SE3411	Royston		23/10/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	3 Count
SE3411	Royston		19/04/2011 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	2 Count
SE325090	Swallow Hill	Swallow Hill Farm	18/02/2013 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	In hawthorn hedge across the road from number 83 Swallow Hill Road.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		11/12/1987 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	Regularly seen throughout the year. Breeding.
SE3308	Wilthorpe Marsh		30/03/1987 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Emberiza citrinella	Yellowhammer	1.00	0.00	1.00	
SE334087	Wilthorpe Marsh	Northern edge of marsh	24/02/2012 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	
SE344080	Barnsley	Barnsley Canal at	03/05/2012	bird	Emberiza	Reed Bunting	1.00	0.00	1.00	

	Canal at Wilthorpe LWS	Wilthorpe	00:00		schoeniclus					
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/1987 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	2-4 pairs bred in the marsh.
SE3309	North Gawber		01/03/2009 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	
SE3308	Barnsley Canal at Wilthorpe LWS	Barnsley Canal at Wilthorpe	12/06/2010 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	2 males
SE3308	Barnsley Canal at Wilthorpe LWS	Barnsley Canal at Wilthorpe	22/06/2009 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	1 bird
SE3308	Wilthorpe Marsh	7	29/04/2011 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	singing males
SE3308	Wilthorpe Marsh		30/01/2010 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	roost in marsh
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	more detailed survey this year
SE3411	Royston		23/03/2011 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	1 Count
SE330085	Wilthorpe Marsh	Western section of marsh	18/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	Singing.
SE330085	Wilthorpe Marsh	Western section of marsh	19/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	Male.
SE333087	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	Singing near northern edge of marsh.
SE333087	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	In scrub along northern edge of marsh.
SE334086	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	Singing near southern edge of marsh.
SE335084	Former Barnsley Canal	Barnsley to Barugh section	19/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	In scrub to south of former canal.

SE325087	Darton Sewage Treatment Works	Marsh to south of works	26/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	
SE325086	Darton Sewage Treatment Works	Marsh to south of works	18/02/2013 00:00	bird	Emberiza schoeniclus	Reed Bunting	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		17/04/1987 00:00	bird	Phylloscopus sibilatrix	Wood Warbler	1.00	0.00	1.00	
SE323088	Low Barugh	Dearne Hall Rd	02/03/2012 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	lapwing 6 No. at sewage works
SE323088	Low Barugh	Dearne Hall Road	02/03/2012 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/02/1987 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	2 pairs breeding.
SE3308	Wilthorpe Marsh		21/10/1987 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	
SE321096	Mapplewell Tip		11/07/2015 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	Calling from long grass.
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	brood of 2
SE3308	Wilthorpe Marsh	15	20/02/2011 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	first young seen 27/5 figure is max singing males
SE3408	Smithies		26/04/2009 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	males - 2 territories in large field
SE3308	Wilthorpe Marsh		11/04/2009 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	sitting on nests
SE3308	Wilthorpe Marsh		01/01/2009 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	at least 6 pairs
SE3308	'BARNSELEY MBC'	SE30J-3	01/05/2009 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	Breeding confirmed
SE3396108237	Barnsley Canal at Wilthorpe LWS	Old course of River Dearne at Wilthorpe	16/05/2012 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	heard
SE328090	Swallow Hill	Fields off Swallow Hill Road	18/02/2013 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	In roughly ploughed field with residue of

										maize crop.
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/03/2013 00:00	bird	Vanellus vanellus	Lapwing	1.00	0.00	1.00	
SE341083	Stand Hill	Field to south-east of former tip	25/02/2016 00:00	bird	Vanellus vanellus	Northern Lapwing	1.00	0.00	1.00	In ploughed field.
SE3308	Wilthorpe Marsh		11/09/1987 00:00	bird	Numenius arquata	Curlew	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		11/05/2009 00:00	bird	Numenius arquata	Curlew	1.00	0.00	1.00	from west, ?Cawthorne bird
SE3408	Standhill Wood		08/05/1987 00:00	bird	Anthus trivialis	Tree Pipit	1.00	0.00	1.00	Pair.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Carduelis cabaret	Lesser Redpoll	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		12/06/1987 00:00	bird	Carduelis cabaret	Lesser Redpoll	1.00	0.00	1.00	Pair.
SE321095	'BARNSELY MBC'	Former tip off Darton Lane	26/02/2013 00:00	bird	Carduelis cabaret	Lesser Redpoll	1.00	0.00	1.00	
SE321097	'BARNSELY MBC'	Disused railway off Darton Lane	26/02/2013 00:00	bird	Carduelis cabaret	Lesser Redpoll	1.00	0.00	1.00	In hawthorn scrub.
SE321097	'BARNSELY MBC'	Former tip off Darton Lane	26/02/2013 00:00	bird	Carduelis cabaret	Lesser Redpoll	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		30/05/2011 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	rufous phase
SE3308	Wilthorpe Marsh		28/04/2010 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	7	07/05/2011 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	singing male
SE3308	Wilthorpe Marsh		31/05/2008 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	singing male
SE3439907998	Barnsley Canal at Wilthorpe LWS	Barnsley canal at Wilthorpe	16/05/2012 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	Heard to NW
SE3411	Royston		19/04/2011 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	1 Count
SE3308	Barnsley Canal at Wilthorpe	Barnsley Canal at Wilthorpe	12/06/2010 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	1 male calling (BNSS field visit)

	LWS									
SE3308	Wilthorpe Marsh		29/04/1987 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		07/05/1987 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/08/1987 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Cuculus canorus	Cuckoo	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/05/2010 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	4+ males singing
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	in song
SE3308	Wilthorpe Marsh		28/04/2010 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	singing
SE3308	Wilthorpe Marsh		20/07/2010 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	still singing
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	1,2,3,4,5,6,7,15	29/04/2011 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	singing males
SE3308	Wilthorpe Marsh		30/05/2011 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	singing male
SE3308	Wilthorpe Marsh		25/04/2009 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	singing
SE3308	Wilthorpe Marsh		03/05/2008 00:00	bird	Locustella naevia	Grasshopper Warbler	1.00	0.00	1.00	singing
SE3308	Wilthorpe Marsh		12/09/1987 00:00	bird	Muscicapa striata	Spotted Flycatcher	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/09/1987 00:00	bird	Muscicapa striata	Spotted Flycatcher	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		17/09/1987 00:00	bird	Muscicapa striata	Spotted Flycatcher	1.00	0.00	1.00	Last sighting of the year.
SE3308	Wilthorpe Marsh		11/09/1987 00:00	bird	Muscicapa striata	Spotted Flycatcher	1.00	0.00	1.00	
SE324091	Swallow Hill	Swallow Hill Farm	18/02/2013 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	In hawthorn hedge near farm buildings.
SE337079	'BARNSELY MBC'	Woodstock Road	19/02/2013 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	In hawthorn hedge.
SE351087	'BARNSELY	Barnsley	25/01/2009	bird	Passer	House	1.00	0.00	1.00	

	MBC'		00:00		domesticus	Sparrow				
SE342099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE333096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE336097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE334099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE324099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE339098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE339096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE337098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE354091	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE355093	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE324099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE336097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE355093	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE351087	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE339098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE354091	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE339096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE342099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE337098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE334099	'BARNLEY	Barnley	25/01/2009	bird	Passer	House	1.00	0.00	1.00	

	MBC'		00:00		domesticus	Sparrow				
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE330100	Staincross		09/07/2003 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	from houses in village
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE3308	Wilthorpe		09/04/2013 00:00	bird	Passer domesticus	House Sparrow	1.00	0.00	1.00	
SE30J	BTO, Barnsley		01/04/1989 00:00	bird	Passer montanus	Tree Sparrow	1.00	0.00	1.00	
SE30P	BTO, Barnsley		01/04/1989 00:00	bird	Passer montanus	Tree Sparrow	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		17/04/1987 00:00	bird	Passer montanus	Tree Sparrow	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh	6	29/04/2011 00:00	bird	Passer montanus	Tree Sparrow	1.00	0.00	1.00	
SE325090	Swallow Hill	Swallow Hill Farm	18/02/2013 00:00	bird	Passer montanus	Tree Sparrow	1.00	0.00	1.00	In hawthorn hedge across the road from number 83 Swallow Hill Road.
SE326091	Swallow Hill	Swallow Hill Road	18/02/2013 00:00	bird	Passer montanus	Tree Sparrow	1.00	0.00	1.00	In shrubs next to Peel Terrace.
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	15	26/03/2011 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2009 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	territories
SE3411	Royston		19/04/2011 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	2 Count
SE327084	Former Barnsley Canal	Barnsley to Barugh section	26/02/2013 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	In edge of scrub along former towpath.
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	Droppings

SE3308	Wilthorpe Marsh		05/11/1987 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	Maximum number. 1-2 pairs regularly seen around the marsh.
SE3309	North Gawber		01/03/2009 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	
SE3308	Wilthorpe		09/04/2013 00:00	bird	Perdix perdix	Grey Partridge	1.00	0.00	1.00	2 pairs seen.
SE329097	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Erynnis tages	Dingy Skipper	1.00	0.00	0.00	
SE330097	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Erynnis tages	Dingy Skipper	1.00	0.00	0.00	
SE329095	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Erynnis tages	Dingy Skipper	1.00	0.00	0.00	
SE332096	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Erynnis tages	Dingy Skipper	1.00	0.00	0.00	
SE332096	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Erynnis tages	Dingy Skipper	1.00	0.00	0.00	
SE3309	North Gawber		01/03/2009 00:00	insect - butterfly	Erynnis tages	Dingy Skipper	1.00	0.00	0.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bony fish (Actinopterygii)	Salmo trutta	Sea Trout	1.00	0.00	0.00	
SE3209	Barugh Bridge		01/11/2001 00:00	terrestrial mammal	Lepus europaeus	Brown Hare	1.00	0.00	0.00	Runs and droppings
SE334110	A61	opp' golf club	28/05/2012 00:00	terrestrial mammal	Erinaceus europaeus	Hedgehog	1.00	0.00	0.00	West European hedgehog - DOR
SE3309	North Gawber		01/03/2009 00:00	insect - butterfly	Lasiommata megera	Wall	1.00	0.00	0.00	
SE322097	Mapplewell		07/07/2013 00:00	insect - moth	Tyria jacobaeae	Cinnabar	1.00	0.00	0.00	
SE3309	Mapplewell Tip		07/07/2013 00:00	insect - moth	Tyria jacobaeae	Cinnabar	1.00	0.00	0.00	
SE3309	Mapplewell Tip		07/07/2013 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE332096	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE329095	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE329097	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	

SE330097	Mapplewell Tip		09/06/2013 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE3308	Barnsley Canal at Wilthorpe LWS	Wilthorpe marsh	28/05/2009 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	3 along Barnsley Canal towpath
SE3309	North Gawber		01/03/2009 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE3309	North Gawber		06/07/2013 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE3308	Wilthorpe Marsh		07/08/2011 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE344080	Barnsley Canal: Smithy Green	Smithies canal	22/05/2011 00:00	insect - butterfly	Coenonympha pamphilus	Small Heath	1.00	0.00	0.00	
SE333096	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	
SE333096	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh	6	20/02/2011 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	some in sub-song
SE3308	Wilthorpe Marsh		01/11/2008 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		22/11/2009 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	
SE333087	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	In scrub along northern edge of marsh.
SE327084	Former Barnsley Canal	Barnsley to Barugh section	26/02/2013 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	Approx 35 in scrub along former towpath.
SE328084	Former Barnsley Canal	Barnsley to Barugh section	18/02/2013 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	In scrub along former towpath.
SE329085	Former Barnsley Canal	Barnsley to Barugh section	18/02/2013 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	Approx 20 foraging in pasture to north of canal.
SE356101	Athersley Memorial Park		28/02/2012 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	redwing 12 No.

SE356101	Carlton	Athersley Memorial Parkway	28/02/2012 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	Feeding on roadside hawthorns
SE3308	Wilthorpe Marsh		14/10/1987 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		09/12/1987 00:00	bird	Turdus iliacus	Redwing	0.00	1.00	1.00	Maximum number.
SE3308	Wilthorpe Marsh		22/04/1987 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		09/11/1987 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	Remained until 16th November.
SE3308	Wilthorpe Marsh		13/03/1987 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh	6	20/02/2011 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2007 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	c200
SE3308	Wilthorpe Marsh		16/11/2008 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	
SE3411	Royston		23/10/2011 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	3 Count
SE321095	'BARNSELY MBC'	Former tip off Darton Lane	26/02/2013 00:00	bird	Turdus pilaris	Fieldfare	0.00	1.00	1.00	Flock of approx 70 dropped down into trees.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Tringa nebularia	Greenshank	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		05/09/1987 00:00	bird	Tringa nebularia	Greenshank	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		26/04/1987 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		22/07/1987 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/02/2013 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2007 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		21/03/2009 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	

SE3308	Wilthorpe Marsh		11/04/2009 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	
SE325089	Darton Sewage Treatment Works	Filtration beds	18/02/2013 00:00	bird	Tringa ochropus	Green Sandpiper	0.00	1.00	1.00	Seen in flight over river, dropped down into filtration beds.
SE3308	Wilthorpe Marsh		30/10/2010 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	5	20/02/2011 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	meanders
SE3308	Wilthorpe Marsh		30/05/2011 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		27/11/2011 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		01/11/2008 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE334086	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	Perched in willow near pool.
SE343080	'BARNESLEY MBC'	River Dearne, Smithy Green	12/09/2009 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	1 flying down-stream
SE3308	River Dearne in SE30		11/09/1980 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	
SE3308	Wilthorpe Marsh		15/08/1987 00:00	bird	Alcedo atthis	Kingfisher	0.00	1.00	1.00	1-2 birds seen on most dates throughout the year.
SE3308	Wilthorpe Marsh		30/10/2010 00:00	bird	Falco peregrinus	Peregrine	0.00	1.00	1.00	male chased Snipe
SE3410	Staincross		04/09/2011 00:00	bird	Milvus milvus	Red Kite	0.00	1.00	1.00	1 Count
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	Flash
SE3308	Wilthorpe Marsh		11/04/2009 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	

SE3308	Wilthorpe Marsh		11/05/2009 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	
SE3308	Barnsley Canal at Wilthorpe LWS		12/06/2010 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	1 feeding on bank of R. Dearne
SE30J	BTO, Barnsley		01/04/1989 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	pair seen displaying & present throughout, no young seen
SE3308	Wilthorpe Marsh		24/04/1987 00:00	bird	Charadrius dubius	Little Ringed Plover	0.00	1.00	0.00	1-2 pairs nesting in an area adjoining the marsh.
SE3308	Wilthorpe Marsh		11/09/1980 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	
SE336084	Darton pond 8		25/09/2011 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	1 juvenile
SE344080	Barnsley Canal general	Wilthorpe	13/04/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	juvenile under stone
SE336084	Barnsley Canal at Wilthorpe LWS	western part	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	3 male 4 female torch survey
SE336084	Barnsley Canal at Wilthorpe LWS	western part	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	2 male 7 female torch survey
SE339082	Wilthorpe Marsh	old course of River Dearne	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	torch survey
SE327095	Darton	pond 1	06/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	2m 2f
SE329095	Darton	pond 3	06/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	9 male 3female
SE336084	Darton	pond 8	06/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	2
SE3367208436	Barnsley Canal at Wilthorpe	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	7 female seen during torch survey

	LWS									
SE3372208381	Barnsley Canal general	Willowbank	01/04/2016 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	seen in floating pennywort presumably using it as a foraging/egg-laying medium
SE3356308515	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	3 male recorded during torch survey
SE3367208436	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	2 male seen during torch survey
SE3308	Wilthorpe Marsh		07/05/2011 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	
SE3308	Wilthorpe Marsh		12/05/2011 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	4m, 2f
SE3396108237	Barnsley Canal at Wilthorpe LWS	Old course of River Dearne at Wilthorpe	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	male seen during torch survey
SE3356308515	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Triturus vulgaris	Smooth Newt	0.00	1.00	0.00	4 female recorded during torch survey
SE352090	'BARNSELY MBC'	38 Ashbourne Road	01/10/1998 00:00	terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	0.00	1.00	0.00	1
SE3308	'BARNSELY MBC'	Willowbank Old Town	18/06/1988 00:00	terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	0.00	1.00	0.00	2
SE339080	'BARNSELY MBC'	Tinkers Pond	20/04/1992 00:00	terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	0.00	1.00	0.00	present
SE350115	'BARNSELY MBC'	63 Applehaigh View	31/05/1994 00:00	terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	0.00	1.00	0.00	roost 3 exit count
SE3309	North Gawber	Central, southern and north-eastern parts of the site	14/08/2013 00:00	terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	0.00	1.00	0.00	Maximum count. Foraging/feeding.
SE339080	Old Town	Tinkers Pond	20/04/1992	terrestrial	Myotis	Daubenton's	0.00	1.00	0.00	

			00:00	mammal	daubentoni	Bat				
SE336081	'BARNSELEY MBC'	Monkey Tunnel	06/09/2002 00:00	terrestrial mammal	Myotis daubentoni	Daubenton's Bat	0.00	1.00	0.00	visual in crevices
SE336081	'BARNSELEY MBC'	Monkey Tunnel	06/09/2002 00:00	terrestrial mammal	Myotis daubentoni	Daubenton's Bat	0.00	1.00	0.00	in roof crevice
SE3425508041	Barnsley Canal at Wilthorpe LWS	Barnsley canal at Wilthorpe	16/05/2012 00:00	terrestrial mammal	Myotis daubentoni	Daubenton's Bat	0.00	1.00	0.00	
SE3408	Barnsley Canal at Wilthorpe LWS	Barnsley Canal at Wilthorpe	16/05/2012 00:00	terrestrial mammal	Myotis daubentoni	Daubenton's Bat	0.00	1.00	0.00	feeding
SE3210	Darton	19 Darton Hall Drive	01/01/1995 00:00	amphibian	Rana temporaria	Common Frog	0.00	1.00	0.00	reported by J S Booth
SE331094	Darton pond 4		25/09/2011 00:00	amphibian	Rana temporaria	Common Frog	0.00	1.00	0.00	1 dead frog
SE3356308515	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Rana temporaria	Common Frog	0.00	1.00	0.00	3 seen during torch survey
SE3367208436	Barnsley Canal at Wilthorpe LWS	Western part of Barnsley canal at Wilthorpe	16/05/2012 00:00	amphibian	Rana temporaria	Common Frog	0.00	1.00	0.00	Found when netting out amphibians during torch survey
SE336084	Barnsley Canal at Wilthorpe LWS	western part	16/05/2012 00:00	amphibian	Rana temporaria	Common Frog	0.00	1.00	0.00	torch survey
SE3308	Wilthorpe Marsh		31/05/2008 00:00	bird	Falco subbuteo	Hobby	0.00	1.00	0.00	pair displaying high drifted north over Mapplewell
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/10/1987 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	Regular throughout the winter.
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	

SE3411	'BARNSELEY MBC'	Barnsley	20/05/2011 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	1 Count
SE3411	Royston		23/06/2011 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	3 Count
SE3411	Royston		30/08/2011 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	1 Count
SE3411	Royston		19/09/2011 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	1 Count
SE3411	Royston		23/10/2011 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	1 Count
SE3411	Royston		23/03/2011 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	2 Count
SE326089	Darton Sewage Treatment Works	Scrub along adjacent river bank	18/02/2013 00:00	bird	Regulus regulus	Goldcrest	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	5	29/04/2011 00:00	bird	Riparia riparia	Sand Martin	0.00	0.00	1.00	pair taking food into nesthole on R Dearne - conf breeding
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Riparia riparia	Sand Martin	0.00	0.00	1.00	present in breeding season, nests not located, poss 3 pairs
SE3308	Wilthorpe Marsh		22/04/1987 00:00	bird	Riparia riparia	Sand Martin	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		13/05/1987 00:00	bird	Riparia riparia	Sand Martin	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Saxicola torquata	Stonechat	0.00	0.00	1.00	In woods along access road
SE324099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE336097	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE350090	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE355093	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE342099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE354091	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	

SE339096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE337098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Common Starling	0.00	0.00	1.00	
SE321099	'BARNLEY MBC'	Barnley	27/01/2008 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE350090	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE342099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE336097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE324099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE337098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE339096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE354091	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE355093	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		17/04/1987 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Sturnus vulgaris	Starling	0.00	0.00	1.00	
SE321099	'BARNLEY MBC'	Barnley	27/01/2008 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE350090	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE351087	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE342099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE335097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE333096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE339098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	

SE339098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE324098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE324099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE334099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE336097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE337098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE339096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE354091	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE355093	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/1987 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	Breeding species in the hedgerows.
SE3309	North Gawber		01/03/2009 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE3308	Wilthorpe		09/04/2013 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE323097	Mapplewell Tip		21/07/2015 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	
SE3411	'BARNLEY MBC'	Barnley	20/05/2011 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	10 Count
SE3308	'BARNLEY MBC'	Wilthorpe	01/02/2007 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	first song
SE3411	Royston		23/03/2011 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	4 Count
SE3411	Royston		19/04/2011 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	3 Count
SE3411	Royston		23/06/2011 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	6 Count

SE333087	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Turdus merula	Blackbird	0.00	0.00	1.00	In scrub along northern edge of marsh.
SE324098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE324099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE336097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE350090	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE355093	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE354091	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE339098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE339098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE339096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE351087	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE342099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE337098	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE335097	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE334099	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE333096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus merula	Common Blackbird	0.00	0.00	1.00	
SE333096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	
SE333096	'BARNLEY MBC'	Barnley	25/01/2009 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	
SE3411	'BARNLEY MBC'	Barnley	20/05/2011 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	1 Count
SE3308	'BARNLEY	Wilthorpe	01/12/2007	bird	Turdus	Song Thrush	0.00	0.00	1.00	in song

	MBC'		00:00		philomelos					
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	figure is maximum singing males
SE3411	Royston		19/04/2011 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	1 Count
SE3411	Royston		23/06/2011 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	1 Count
SE329085	Former Barnsley Canal	Barnsley to Barugh section	18/02/2013 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	Foraging in pasture to north of canal.
SE3309	North Gawber		01/03/2009 00:00	bird	Turdus philomelos	Song Thrush	0.00	0.00	1.00	
SE342099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	
SE342099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	
SE3411	'BARNSELEY MBC'	Barnsley	20/05/2011 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	1 Count
SE3308	'BARNSELEY MBC'	Wilthorpe	01/12/2007 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	in song
SE3308	Wilthorpe Marsh		11/10/2009 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	
SE3411	Royston		23/03/2011 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	1 Count
SE3411	Royston		23/06/2011 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	3 Count
SE320096	'BARNSELEY MBC'	Fields south of Darton Lane	26/02/2013 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	
SE322092	Swallow Hill	Spark Lane	18/02/2013 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	Singing.
SE326091	'BARNSELEY MBC'	Swallow Hill Road	24/02/2012 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		25/08/1987 00:00	bird	Turdus viscivorus	Mistle Thrush	0.00	0.00	1.00	Maximum number. Seen regularly.
SE3308	Wilthorpe Marsh		19/08/1987 00:00	bird	Phoenicurus phoenicurus	Redstart	0.00	0.00	1.00	Male.
SE3308	Wilthorpe Marsh		25/08/1987 00:00	bird	Phoenicurus phoenicurus	Redstart	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		11/09/1987 00:00	bird	Phoenicurus phoenicurus	Redstart	0.00	0.00	1.00	

SE3308	Wilthorpe Marsh		15/09/1987 00:00	bird	Phoenicurus phoenicurus	Redstart	0.00	0.00	1.00	Last sighting of the year.
SE3308	Wilthorpe Marsh		25/04/2009 00:00	bird	Phoenicurus phoenicurus	Redstart	0.00	0.00	1.00	fine male
SE3308	Wilthorpe Marsh		11/09/1987 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	Last sighting of the year. At least 4 pairs bred around the marsh.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		21/04/1987 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	Males.
SE3309	North Gawber		01/03/2009 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	1,2,3,4,5,6,7,15	29/04/2011 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	singing males
SE3308	Wilthorpe Marsh		05/10/2008 00:00	bird	Phylloscopus trochilus	Willow Warbler	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	7	01/01/2011 00:00	bird	Picus viridis	Green Woodpecker	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		30/05/2011 00:00	bird	Picus viridis	Green Woodpecker	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		21/03/2009 00:00	bird	Picus viridis	Green Woodpecker	0.00	0.00	1.00	separate calling birds
SE327087	Darton Sewage Treatment Works	Willow scrub adjoining eastern boundary	18/02/2013 00:00	bird	Picus viridis	Green Woodpecker	0.00	0.00	1.00	Calling from storm-damaged sycamore on bank of dike.
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	figure is maximum singing males max May 7th
SE3308	'BARNSELEY MBC'	Wilthorpe	01/01/2007 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	first song
SE3411	Royston		23/03/2011 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	1 Count
SE3411	Royston		19/04/2011 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	2 Count
SE3411	Royston		23/10/2011 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	1 Count

SE323091	Swallow Hill	Swallow Hill Road	18/02/2013 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	Singing.
SE350090	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE351087	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE324099	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE336097	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE350090	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE351087	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE342099	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE339096	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE335097	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE333096	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE335097	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE342099	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE333096	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE324099	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE336097	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE339096	'BARNSELY MBC'	Barnsley	25/01/2009 00:00	bird	Prunella modularis	Hedge Accentor	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Prunella modularis	Dunnock	0.00	0.00	1.00	

SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	figure is maximum singing males
SE3411	Royston		28/07/2011 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	1 Count
SE3411	Royston		30/08/2011 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	3 Count
SE3411	Royston		19/09/2011 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	1 Count
SE335081	'BARNSELY MBC'	Wilthorpe Junior School	19/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	In overgrown hedge along path on north side of school grounds.
SE321097	'BARNSELY MBC'	Disused railway off Darton Lane	26/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	In hawthorn scrub.
SE320098	'BARNSELY MBC'	Disused railway off Darton Lane	26/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	In hawthorn scrub.
SE339081	Former Barnsley Canal	Barnsley to Barugh section	26/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	In scrub near Greenfoot Bridge.
SE341080	Former Barnsley Canal	Barnsley to Barugh section	18/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	Male singing in scrub along former towpath.
SE337088	Stand Hill	Former colliery tip	19/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	In blackthorn at foot of former tip.
SE332085	Former Barnsley Canal	Barnsley to Barugh section	18/02/2013 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	Male singing in scrub along former towpath.
SE334089	Stand Hill Tip		24/02/2012 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		14/06/1987 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	Residnet and breeding.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Pyrrhula pyrrhula	Bullfinch	0.00	0.00	1.00	
SE339093	Wilthorpe Marsh	Wilthorpe Marsh East	09/02/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE339085	Wilthorpe Marsh	Wilthorpe Marsh East	09/03/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/02/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	

SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/03/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE334086	Wilthorpe Marsh	Wilthorpe Marsh Central	09/02/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE334086	Wilthorpe Marsh	Wilthorpe Marsh Central	09/03/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	present through summer at least 4 locations, singing heard
SE3308	Wilthorpe Marsh	5	23/01/2011 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	Smithies end
SE3308	Wilthorpe Marsh	5	20/02/2011 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	meanders
SE3308	Wilthorpe Marsh		11/05/2011 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	calling
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	territories
SE3308	Wilthorpe Marsh		30/01/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		27/03/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		28/04/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	main marsh
SE3308	Wilthorpe Marsh		16/06/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		30/10/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		16/11/2008 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		29/12/2008 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		05/10/2008 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3209	'BARNSELY MBC'	SE30J-2	01/08/2009 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	Breeding confirmed
SE3308	Wilthorpe Marsh		02/05/2009 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		26/12/2009 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	

SE334086	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	At least 1. Heard calling, but not seen.
SE333086	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	At least 2. Heard calling, but not seen.
SE330085	Wilthorpe Marsh	Marsh west of Wilthorpe Marsh	24/02/2012 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	
SE3308	Barnsley Canal at Wilthorpe LWS	Barnsley Canal at Wilthorpe	01/01/2010 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	noted during survey
SE3308	Wilthorpe Marsh		04/11/1987 00:00	bird	Rallus aquaticus	Water Rail	0.00	0.00	1.00	Also seen on other dates in November.
SE3411	Royston		19/09/2011 00:00	bird	Larus fuscus	Lesser Black-Backed Gull	0.00	0.00	1.00	8 Count
SE356096	'BARNSELY MBC'	Athersley Playing Fields	18/10/2012 00:00	bird	Larus fuscus	Lesser Black-Backed Gull	0.00	0.00	1.00	a few with other gulls
SE3308	Wilthorpe Marsh		25/07/1987 00:00	bird	Larus fuscus	Lesser Black-Backed Gull	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		25/03/2010 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	in spring, outcome unknown
SE3408	Smithies		26/04/2009 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	pair
SE338083	River Dearne in SE40	Former course of river near Greenfoot Bridge	26/02/2013 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	2 males, 1 female.
SE339091	Wilthorpe Marsh	Wilthorpe Marsh East	09/02/2013 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	
SE339092	Wilthorpe Marsh	Wilthorpe Marsh East	09/03/2013 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	
SE339082	River Dearne in SE40	Former course of river near Greenfoot Bridge	25/02/2016 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/03/1987 00:00	bird	Anas strepera	Gadwall	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		26/04/1987 00:00	bird	Cygnus olor	Mute Swan	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		22/03/1987 00:00	bird	Cygnus olor	Mute Swan	0.00	0.00	1.00	3 adult, 7 juveniles.

SE3308	Wilthorpe Marsh		21/03/1987 00:00	bird	Cygnus olor	Mute Swan	0.00	0.00	1.00	
SE3308	Barnsley Canal at Wilthorpe LWS		12/06/2010 00:00	bird	Cygnus olor	Mute Swan	0.00	0.00	1.00	2 (1 sitting on nest)
SE3402708227	Barnsley Canal at Wilthorpe LWS	Old course of River Dearne at Wilthorpe	16/05/2012 00:00	bird	Cygnus olor	Mute Swan	0.00	0.00	1.00	
SE339086	Wilthorpe Marsh	Wilthorpe Marsh East	13/01/2013 00:00	bird	Larus canus	Common Gull	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/03/1987 00:00	bird	Scolopax rusticola	Woodcock	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		18/03/1987 00:00	bird	Aythya ferina	Pochard	0.00	0.00	1.00	
SE30J	BTO, Barnsley		01/04/1988 00:00	bird	Charadrius hiaticula	Ringed Plover	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		14/07/2011 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		25/03/2010 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	present throughout, outcome unkown
SE3308	Wilthorpe Marsh	3	29/04/2011 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	alarming, sewage works
SE3308	Wilthorpe Marsh		11/05/2009 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	pair - some display
SE326088	Darton Sewage Treatment Works	Ponds at eastern end of site	18/02/2013 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	
SE327088	Sewage Works near Swallow Hill		24/02/2012 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	
SE327089	'BARNSELY MBC'	sewage works nr Barugh	24/02/2012 00:00	bird	Haematopus ostralegus	Oystercatcher	0.00	0.00	1.00	2 present
SE3308	Wilthorpe Marsh	15	26/03/2011 00:00	bird	Pluvialis apricaria	Golden Plover	0.00	0.00	1.00	displaying over field!

SE30J	River Dearne Valley, Wilthorpe		01/01/1995 00:00	bird	Pluvialis apricaria	Golden Plover	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/02/1987 00:00	bird	Pluvialis apricaria	Golden Plover	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		02/04/1987 00:00	bird	Pluvialis apricaria	Golden Plover	0.00	0.00	1.00	Spring passage birds.
SE3411	Royston		19/09/2011 00:00	bird	Larus argentatus	Herring Gull	0.00	0.00	1.00	1 Count
SE335086	Barnsley Canal at Wilthorpe LWS		19/09/2009 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	1 put up from marsh area
SE334087	Wilthorpe Marsh	marsh	24/02/2012 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	1 flushed from marsh
SE334086	Wilthorpe Marsh	Eastern side of marsh	24/02/2012 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		28/03/1987 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		05/09/1987 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	1 pr 2 regular and most likely breeding.
SE3308	Wilthorpe Marsh		01/12/2007 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	Flash
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	drumming
SE3308	Wilthorpe Marsh	7	01/01/2011 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	7	23/01/2011 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		20/02/2011 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		30/05/2011 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	chipping
SE3308	Wilthorpe Marsh		07/08/2011 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		30/01/2010 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	

SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh		21/03/2009 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		11/04/2009 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	1 drumming
SE3308	Wilthorpe Marsh		25/04/2009 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	1 drumming
SE3308	Wilthorpe Marsh		11/10/2009 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE332086	Wilthorpe Marsh	Mid section of marsh	19/02/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	Flushed from dike.
SE334086	Wilthorpe Marsh	Eastern section of marsh	19/02/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	Flushed from southern edge of marsh.
SE334086	Wilthorpe Marsh	Wilthorpe Marsh Central	13/01/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE334086	Wilthorpe Marsh	Wilthorpe Marsh Central	09/03/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	13/01/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE339085	Wilthorpe Marsh	Wilthorpe Marsh East	09/03/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/02/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/03/2013 00:00	bird	Gallinago gallinago	Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		10/02/1987 00:00	bird	Tadorna tadorna	Shelduck	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	3	01/01/2011 00:00	bird	Phalacrocorax carbo	Cormorant	0.00	0.00	1.00	flew west
SE3308	Wilthorpe Marsh		29/10/2009 00:00	bird	Phalacrocorax carbo	Cormorant	0.00	0.00	1.00	resting on top of pylon
SE339090	Wilthorpe Marsh	Wilthorpe Marsh East	09/02/2013 00:00	bird	Phalacrocorax carbo	Cormorant	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		19/02/1987 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	male, Flash
SE3308	Wilthorpe		21/11/2010	bird	Anas crecca	Teal	0.00	0.00	1.00	

	Marsh		00:00							
SE3308	Wilthorpe Marsh		27/11/2011 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		16/11/2008 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		05/10/2008 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE340082	River Dearne in SE40	Former course of river near Greenfoot Bridge	26/02/2013 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE330085	Wilthorpe Marsh	Western section of marsh	19/02/2013 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	Flushed from Typha.
SE339085	Wilthorpe Marsh	Wilthorpe Marsh East	09/03/2013 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE339085	Wilthorpe Marsh	Wilthorpe Marsh East	09/02/2013 00:00	bird	Anas crecca	Teal	0.00	0.00	1.00	
SE340082	River Dearne in SE40	Former course of river near Greenfoot Bridge	25/02/2016 00:00	bird	Anas crecca	Eurasian Teal	0.00	0.00	1.00	Five birds in flight, others calling from Typha swamp.
SE3308	Wilthorpe Marsh		04/03/1987 00:00	bird	Anas penelope	Wigeon	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		29/12/2008 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		21/11/2010 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	7	01/01/2011 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	7	23/01/2011 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	7	20/02/2011 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		27/11/2011 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		29/10/2009 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		22/11/2009 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		13/12/2009 00:00	bird	Lymnocyptes minimus	Jack Snipe	0.00	0.00	1.00	
SE32500875	Wilthorpe	Wilthorpe Marsh	09/02/2013	bird	Lymnocyptes	Jack Snipe	0.00	0.00	1.00	

	Marsh	west	00:00		minimus					
SE32500875	Wilthorpe Marsh	Wilthorpe Marsh west	09/03/2013 00:00	bird	Lymnocyrtus minimus	Jack Snipe	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		11/04/2009 00:00	bird	Tringa totanus	Redshank	0.00	0.00	1.00	pair displaying
SE3308	Wilthorpe Marsh		01/01/2009 00:00	bird	Tringa totanus	Redshank	0.00	0.00	1.00	pair on territory, outcome unknown
SE3308	Wilthorpe Marsh		22/04/1987 00:00	bird	Tringa totanus	Redshank	0.00	0.00	1.00	1 or 2 birds seen regularly until 4th June. Possibly breeding.
SE30J	BTO, Barnsley		01/04/1989 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	
SE30P	BTO, Barnsley		01/04/1989 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	
SE30J	BTO, Barnsley		01/04/1988 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	
SE344080	Barnsley Canal at Wilthorpe LWS	Barnsley Canal at Wilthorpe	03/05/2012 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/1987 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	Probably breeds with single birds seen throughout the year.
SE3309	North Gawber		01/03/2009 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	3	23/01/2011 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	at sewage works
SE3308	'BARNSELY MBC'	Wilthorpe	01/11/2007 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	at bird feeder, to year end
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	6	23/01/2011 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	canal
SE334085	Former Barnsley Canal	Barnsley to Barugh section	19/02/2013 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	In scrub along former towpath.
SE326089	Darton	Scrub along	18/02/2013	bird	Parus	Willow Tit	0.00	0.00	1.00	

	Sewage Treatment Works	adjacent river bank	00:00		montanus					
SE339081	Former Barnsley Canal	Barnsley to Barugh section	18/02/2013 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	Singing in scrub near Greenfoot Bridge.
SE332085	Former Barnsley Canal	Barnsley to Barugh section	26/02/2013 00:00	bird	Parus montanus	Willow Tit	0.00	0.00	1.00	In scrub along former towpath.
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Emberiza calandra	Corn Bunting	0.00	0.00	1.00	
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Miliaria calandra	Corn Bunting	0.00	0.00	1.00	
SE30J	River Dearne Valley, Wilthorpe		08/10/1994 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE30J	River Dearne Valley, Wilthorpe		08/02/1994 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE30J	River Dearne Valley, Wilthorpe		15/02/1994 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE354102	Athersley Memorial Park		28/02/2012 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE354102	Carlton	Athersley Memorial Parkway	28/02/2012 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/1987 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	Approximately 5 pairs bred around the marsh.
SE3309	North Gawber		01/03/2009 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE3411	'BARNSELEY MBC'	Barnsley	20/05/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	1 Count

SE3308	'BARNSELY MBC'	Wilthorpe	01/01/2007 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	first song
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	2	20/02/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh	2	29/04/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	singing males
SE3411	Royston		19/04/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	1 Count
SE3411	Royston		23/06/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	1 Count
SE3411	Royston		23/03/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	2 Count
SE3411	Royston		23/10/2011 00:00	bird	Alauda arvensis	Skylark	0.00	0.00	1.00	1 Count
SE3308	Wilthorpe Marsh		24/04/1987 00:00	bird	Anas clypeata	Shoveler	0.00	0.00	1.00	
SE3308	'BARNSELY MBC'	Wilthorpe	01/01/2007 00:00	bird	Anser brachyrhyncus	Pink-Footed Goose	0.00	0.00	1.00	west at 11.00
SE3308	'BARNSELY MBC'	Wilthorpe	01/10/2007 00:00	bird	Anser brachyrhyncus	Pink-Footed Goose	0.00	0.00	1.00	east
SE3308	Wilthorpe Marsh		01/11/2008 00:00	bird	Anser brachyrhyncus	Pink-Footed Goose	0.00	0.00	1.00	east at 10.10
SE3308	Wilthorpe Marsh		29/10/2009 00:00	bird	Anser brachyrhyncus	Pink-Footed Goose	0.00	0.00	1.00	west
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	2	29/04/2011 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	pair carrying food
SE3308	Wilthorpe Marsh		30/01/2001 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	roost in marsh
SE3308	Wilthorpe Marsh		05/10/2008 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		29/12/2008 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE324088	Darton Sewage Treatment Works	Filtration beds	26/02/2013 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	At least 3 birds.

SE325086	Darton Sewage Treatment Works	Marsh to south of works	18/02/2013 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE325086	Darton Sewage Treatment Works	Marsh to south of works	26/02/2013 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		08/05/1987 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		23/03/1987 00:00	bird	Anthus pratensis	Meadow Pipit	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/2010 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	figure is maximum singing males
SE3308	Wilthorpe Marsh	2	20/02/2011 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		07/08/2011 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		29/10/2009 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3411	Royston		28/07/2011 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	3 Count
SE3411	Royston		19/04/2011 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	1 Count
SE3411	Royston		19/09/2011 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	1 Count
SE3411	Royston		23/06/2011 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	3 Count
SE326090	Swallow Hill	Swallow Hill Farm	18/02/2013 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	In hawthorn hedge across the road from Peel Terrace.
SE328090	Swallow Hill	Fields off Swallow Hill Road	18/02/2013 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	Flock of approx 30 in roughly ploughed field with residue of maize crop.
SE3210	Darton		03/02/1998 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	

SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		13/09/1987 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	In a flock.
SE3308	Wilthorpe Marsh		30/03/1987 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Carduelis cannabina	Linnet	0.00	0.00	1.00	
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		15/02/1987 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	
SE3308	Wilthorpe		09/04/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	
SE351087	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE324098	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE324099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE336097	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE355093	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE342099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE351087	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE342099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE333096	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE324098	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	

SE336097	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE324099	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE355093	'BARNSELEY MBC'	Barnsley	25/01/2009 00:00	bird	Carduelis carduelis	European Goldfinch	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		28/03/2009 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	
SE3411	Royston		23/03/2011 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	9 Count
SE335080	'BARNSELEY MBC'	Wilthorpe Junior School	19/02/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	Singing in overgrown hedge along path on north side of school grounds.
SE340079	'BARNSELEY MBC'	Willow Bank	19/02/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	Singing.
SE321097	'BARNSELEY MBC'	Disused railway off Darton Lane	26/02/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	In hawthorn scrub.
SE348083	'BARNSELEY MBC'	Disused railway near Reasbeck Terrace	19/02/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	Singing.
SE326090	Swallow Hill	Swallow Hill Farm	18/02/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	Singing in hawthorn hedge across the road from Peel Terrace.
SE322091	Swallow Hill	Swallow Hill Road	18/02/2013 00:00	bird	Carduelis carduelis	Goldfinch	0.00	0.00	1.00	Singing.
SE3309	Hill End Farm		12/06/1987 00:00	bird	Carduelis flavirostris	Twite	0.00	0.00	1.00	
SE3411	Royston		19/09/2011 00:00	bird	Columba oenas	Stock Dove	0.00	0.00	1.00	25 Count
SE325086	Darton Sewage Treatment Works	Marsh to south of works	26/02/2013 00:00	bird	Columba oenas	Stock Dove	0.00	0.00	1.00	Flushed from edge of marsh.
SE3410	Staincross		04/09/2011 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	20 Count
SE3310	'BARNSELEY MBC'	SE31F-3	01/06/2006 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	Breeding probable
SE3411	Royston		23/06/2011 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	1 Count

SE3411	Royston		30/08/2011 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	4 Count
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		27/05/1986 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		02/05/1987 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		12/06/1987 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	Feeding over the marsh.
SE3308	Wilthorpe Marsh		17/09/1987 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	Last sighting of the year.
SE3309	North Gawber		01/03/2009 00:00	bird	Delichon urbica	House Martin	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/06/2007 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	rec fledged juvs
SE3411	Royston		19/04/2011 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	1 Count
SE3411	Royston		30/08/2011 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	1 Count
SE3411	Royston		19/09/2011 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	1 Count
SE325086	Darton Sewage Treatment Works	Marsh to south of works	26/02/2013 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	Hovering over edge of marsh.
SE340088	Stand Hill	Former colliery tip	19/02/2013 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	Male perched in birch tree.
SE339082	Barnsley Canal at Wilthorpe LWS	ox-bows	03/05/2012 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	hovering
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		01/01/1987 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	Up to 3 birds regularly seen. May breed on the electricity pylons.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	

SE3309	Hill End Farm		12/06/1987 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	Pair.
SE3309	North Gawber		01/03/2009 00:00	bird	Falco tinnunculus	Kestrel	0.00	0.00	1.00	
SE339082	Barnsley Canal at Wilthorpe LWS	ox-bows	03/05/2012 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	feeding
SE323097	Mapplewell		07/07/2013 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	Flying over, north
SE3308	Wilthorpe Marsh		06/10/1987 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	Last sighting of the year.
SE3308	Wilthorpe Marsh		27/05/1986 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		22/04/1987 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		12/06/1987 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	Feeding over the marsh.
SE3308	Wilthorpe Marsh		01/08/1986 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	
SE3309	North Gawber		01/03/2009 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	
SE321097	Mapplewell Tip		11/07/2015 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	
SE3410	Staincross		10/04/2011 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	1 Count
SE3308	Wilthorpe Marsh		05/10/2008 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	
SE3209	'BARNSELEY MBC'	SE30J-2	01/05/2009 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	Breeding confirmed
SE3411	Royston		23/06/2011 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	2 Count
SE3411	Royston		30/08/2011 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	10 Count
SE3411	Royston		28/07/2011 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	2 Count
SE3411	Royston		19/09/2011 00:00	bird	Hirundo rustica	Swallow	0.00	0.00	1.00	1 Count
SE3209	Barugh Bridge		01/11/2001 00:00	bird	Motacilla cinerea	Grey Wagtail	0.00	0.00	1.00	Feeding along water line

SE3308	Wilthorpe Marsh		01/01/1987 00:00	bird	Motacilla cinerea	Grey Wagtail	0.00	0.00	1.00	1-2 birds seen regularly throughout the winter months, mainly on the River Dearne.
SE3308	Wilthorpe Marsh	Barugh end on river	01/01/2010 00:00	bird	Motacilla cinerea	Grey Wagtail	0.00	0.00	1.00	figure is maximum singing males
SE3209	Low Barugh		19/04/1999 00:00	bird	Motacilla flava	Yellow Wagtail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		27/04/2009 00:00	bird	Motacilla flava	Yellow Wagtail	0.00	0.00	1.00	
SE3308	Wilthorpe Marsh		25/04/2009 00:00	bird	Motacilla flava	Yellow Wagtail	0.00	0.00	1.00	over west
SE3308	Wilthorpe Marsh		15/08/1987 00:00	bird	Motacilla flava	Yellow Wagtail	0.00	0.00	1.00	Last sighting of the year. 2 birds seen regularly throughout the season. Possibly breeding.
SE3402708231	Barnsley Canal at Wilthorpe LWS	Barnsley canal at Wilthorpe	16/05/2012 00:00	terrestrial mammal	Pipistrellus pipistrellus 45kHz	45 Khz Pipistrelle	0.00	0.00	0.00	
SE3408	Barnsley Canal at Wilthorpe LWS	Barnsley Canal at Wilthorpe	16/05/2012 00:00	terrestrial mammal	Pipistrellus pipistrellus 45kHz	45 Khz Pipistrelle	0.00	0.00	0.00	feeding
SE3308	Old Town	Willowbank	18/06/1988 00:00	terrestrial mammal	Myotis	Unidentified Bat	0.00	0.00	0.00	
SE3308	Wilthorpe Marsh		11/09/1980 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				
SE3308	River Dearne in SE30		11/09/1980 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				live
SE3308	Barnsley Canal general	Wilthorpe	07/04/1980 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				
SE335086	'BARNSELY MBC'	River Dearne	23/05/1999 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				water voles seen; latrines; neat piles of chopped grass
SE351101	'BARNSELY MBC'	Athersley/Carlton	01/01/2009 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				field signs

SE354102	'BARNLEY MBC'	Athersley/Carlton	14/01/2009 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				field signs
SE3566010100	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Burrow
SE3541010192	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Burrow
SE3509810140	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Burrow
SE3509210138	'BARNLEY MBC'	Barnley	21/04/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Burrow
SE3512710143	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Burrow
SE3543010222	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Burrow
SE3561710086	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3561210076	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3562410089	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3562110148	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3573010142	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3564010091	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3559510084	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3563110108	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3562910103	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3562810106	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3573710146	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3510810145	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3552310220	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Sighting

SE3539910176	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3538910169	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3537510169	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3536810165	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3513510146	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3512910147	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3545010192	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3543810188	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3541210192	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3541510202	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3542110208	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3543409934	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3543610235	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3544110244	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3563410131	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3555210208	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3550410214	'BARNLEY MBC'	Barnley	21/04/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3553310036	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3555710054	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3557610066	'BARNLEY MBC'	Barnley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine

SE3559810084	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3561910150	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Feeding pile
SE3542810220	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3576610166	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3563710089	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3559810065	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE3556010046	'BARNSELEY MBC'	Barnsley	01/09/2012 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Latrine
SE351101	Athersley South	Athersley	01/01/2009 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Ditch
SE354102	Athersley South	Athersley	14/01/2009 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Ditch
SE3311	Staincross		01/01/2011 00:00	terrestrial mammal	Arvicola terrestris	Water Vole				Ponds on golf course

