



Land at Water's Edge, High Road, Whitehaven Proposed housing development

Preliminary Ecological Appraisal



A report by
Rigby Jerram
For Gleason Homes
19 December 2019

Rigby Jerram Ecological Consultants
4 Bankfield
Kendal
Cumbria
LA9 5DR
Tel & Fax: 01539 726618
e-mail: rigby@jerramecology.co.uk

Contents

1. Introduction	3
2. Methodology	3
2.1. Desk study	3
2.2. Phase 1 ecological habitats survey	3
2.3. Assessment	3
3. Baseline Conditions.....	3
3.1. Desk study	3
Designated sites	3
Rare and protected species	4
Legislation	4
3.2. Site survey	5
4. Ecological Constraints	5
5. Likely Mitigation Measures	6
6. Further Survey Requirements	6
7. Opportunities for Biodiversity Enhancement.....	6
8. Photographs.....	6
9. Target Notes	19

1. Introduction

This is a preliminary ecological appraisal of proposals for a housing development of 44 homes on land at Water's Edge, High Road, Whitehaven, Cumbria. The key objectives of this preliminary appraisal are to identify:

- the likely ecological constraints associated with the project;
- any mitigation measures which may be required;
- any additional surveys which might be required to inform an Ecological Impact Assessment; and
- any opportunities offered by the project to deliver ecological enhancements.

2. Methodology

2.1. Desk study

A desk study was carried out to identify any international, national or local nature conservation designations within or near to the Site and to obtain and evaluate any relevant existing ecological information. The study area for the desk study extended to 2km from the approximate centre of the Site (Grid Reference NX 967 162).

2.2. Phase 1 ecological habitats survey

Vegetation within the site was surveyed and mapped in accordance with the JNCC Phase 1 Habitat Survey Classification at a scale of 1:2,500. Vegetation boundaries were checked using Google Earth aerial photos. Written descriptions of the vegetation types is given, including the principal component species of the vegetation, together with an assessment of their abundance using the DAFOR (Dominant Abundant Frequent Occasional Rare) scale.

2.3. Assessment

Assessment of ecological value and the significance of impacts follows the guidance given in the Chartered Institute of Ecology and Environmental Management (CIEEM) Guidelines for Preliminary Ecological Appraisal, 2nd edition, 2017.

3. Baseline Conditions

3.1. Desk study

Designated sites

Map 1 shows the designated sites present within 2km of the application boundary. St Bees Head Site of Special Scientific Interest (SSSI) lies 375m west of the proposed development. St Bees Head is designated for its breeding colonies of black guillemot, fulmar, guillemot, kittiwake, puffin, razorbill and shag, its geology and maritime cliff and slope habitats including maritime grassland communities and dry heath.

Four Cumbria Wildlife Sites (CWSs) lies 2km of the proposed development. Woodhouse Quarry CWS is 422m north-east and is designated for its species rich grassland and geological interest. Roska Park

and Bellhouse Wood CWS is 1.46km to the south-west and is designated for its woodland, some of which is ancient woodland. Castle Park Wood and Midgey Gill lie 1.7 and 1.9km to the north-east and are designated for their ancient woodland and woodland birds.

Rare and protected species

Records from the Cumbria Biodiversity Records Centre are shown in Map 2 and Table 1.

There are large numbers of red squirrel records from woodland and gardens throughout Whitehaven, but particularly in the wooded gills on the eastern side of town and the woodland on Monkway Brow and the cemetery on the western side of the valley.

There are records of slow-worm and common lizard from coastal heathland to the south-west of the site and disused quarries. There are a large number of butterfly records, particularly for small heath and wall from the coastal grassland and rough grassland in the vicinity of the site. There are very few bat records.

The majority of bird records are tetrad (4km squares) records.

Legislation

Reptiles

Adder *Vipera berus*, grass snake *Natrix natrix*, common lizard *Zootoca vivipara* and slow worm *Anguis fragilis*, are protected under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) against deliberate and/or intentional killing, injuring and trade.

Badgers

Badgers *Meles meles* and their setts are protected under the Protection of Badgers Act (1992). Licenses are required from Natural England to exclude badgers from a sett and to 'close' it if there will be a direct impact from development. Further to this, disturbance licences are likely to be required if the following activities occur closer to a badger sett than the distances specified below:

- Digging or scrub clearance within 10 m of an active sett;
- Use of light machinery (wheeled vehicles etc.) within 20 m of an active sett;
- Basic activities and heavy machines (such as JCBs) within 30 m of a sett;

Under the terms of the act a badger sett is defined as "any structure or place which displays signs indicating current use by a badger". Disturbance under licence can normally only be undertaken between July and November inclusive (outside of the breeding season).

Otter

The otter *Lutra lutra* is afforded legal protection both in Europe and the UK through the Habitats Regulations (1994, as amended) and the Wildlife & Countryside Act (1981, as amended). It is therefore, illegal to intentionally, deliberately or recklessly kill, injure, disturb or take an otter, or to deliberately damage, destroy or obstruct access to a place used for shelter or protection by an otter. Furthermore, under the Habitat Regulations the offence to deliberately disturb otters includes disturbance in such a way that would affect the ability of any significant group of otters to survive,

breed or nurture their young, or the local distribution or abundance of otters. The otter is listed as a priority species in the UK BAP.

Red squirrel

Red squirrels *Sciurus vulgaris* and their resting places are fully protected in Britain under the Wildlife and Countryside Act 1981 (as amended). It is an offence to deliberately, capture, injure or kill them or to damage, destroy or obstruct their breeding or resting places. Finally it is an offence to disturb them in their breeding or resting places.

Birds

During the breeding season all wild birds, their nests, eggs and young are protected from harm under the Wildlife and Countryside Act (1981 as amended). Therefore the development proposals and clearance of any breeding habitat would need to take account of this legal requirement. Hen harrier is listed on Schedule 1 of the Wildlife and Countryside Act (1981 as amended) and is afforded greater protection of its nest sites.

3.2. Site survey

The site was surveyed on 29th November 2019. Map 3 shows the ecological habitats present. The site is part of the former Marchon chemical plant which was demolished in the mid 2000s. The eastern part of the site is largely bare ground with a thin scattering of ephemeral and colonising plants such as white clover *Trifolium repens*, Yorkshire fog *Holcus lanatus*, groundsel *Senecio vulgaris*, colt's-foot *Tussilago farfara*, annual meadow-grass *Poa annua* and dandelion *Taraxacum officinale*. Vegetation cover ranges from 5 to 60% but is mostly at the lower end of this range. The western and central part of the site is dominated by soil storage mounds which have become vegetated with a species-poor coarse neutral grassland composed of red fescue *Festuca rubra* and Yorkshire fog *Holcus lanatus* with frequent common bent *Agrostis capillaris*, creeping thistle *Cirsium arvense*, broadleaved dock *Rumex obtusifolius* and locally frequent nettles *Urtica dioica*. Between these mounds there are areas of damp species-poor grassland dominated by creeping bent *Agrostis stolonifera*, with frequent Yorkshire fog *Holcus lanatus* and occasional tufted hair-grass *Deschampsia cespitosa* and creeping buttercup *Ranunculus repens*. A row of young ornamental trees has been planted along the northern boundary of the site. Species include sycamore, Scot's pine, rowan and alder. The trees range from 1.5 to 2m in height.

The grassland is of no more than local ecological interest as it is species-poor and of recent origin.

4. Ecological Constraints

There are no significant ecological constraints on development of this site. The St Bees Head SSSI is too distant for the development to have adverse impacts upon the seabird colonies or vegetation. Similarly the Cumbria Wildlife Sites are too distant from the site and in most cases have significant areas of housing between them and the proposed development.

There is no red squirrel habitat on the site and no evidence of badger activity. There is a small possibility that reptiles such as slow-worm and common lizard may have colonised the grassland from their established sites to the south-west.

5. Likely Mitigation Measures

Mitigation measures maybe required if any reptile species are found to be present.

6. Further Survey Requirements

It is recommended that a reptile survey is carried out to establish whether slow-worm or common lizard are present on the site.

7. Opportunities for Biodiversity Enhancement

Biodiversity could be enhanced by the planting native shrubs on the western site boundary.

8. Photographs



Photo 1 Looking north across the largely unvegetated eastern part of the site



Photo 2 Looking west across the lowlying grassland



Photo 3 Damp grasland on southern edge of site



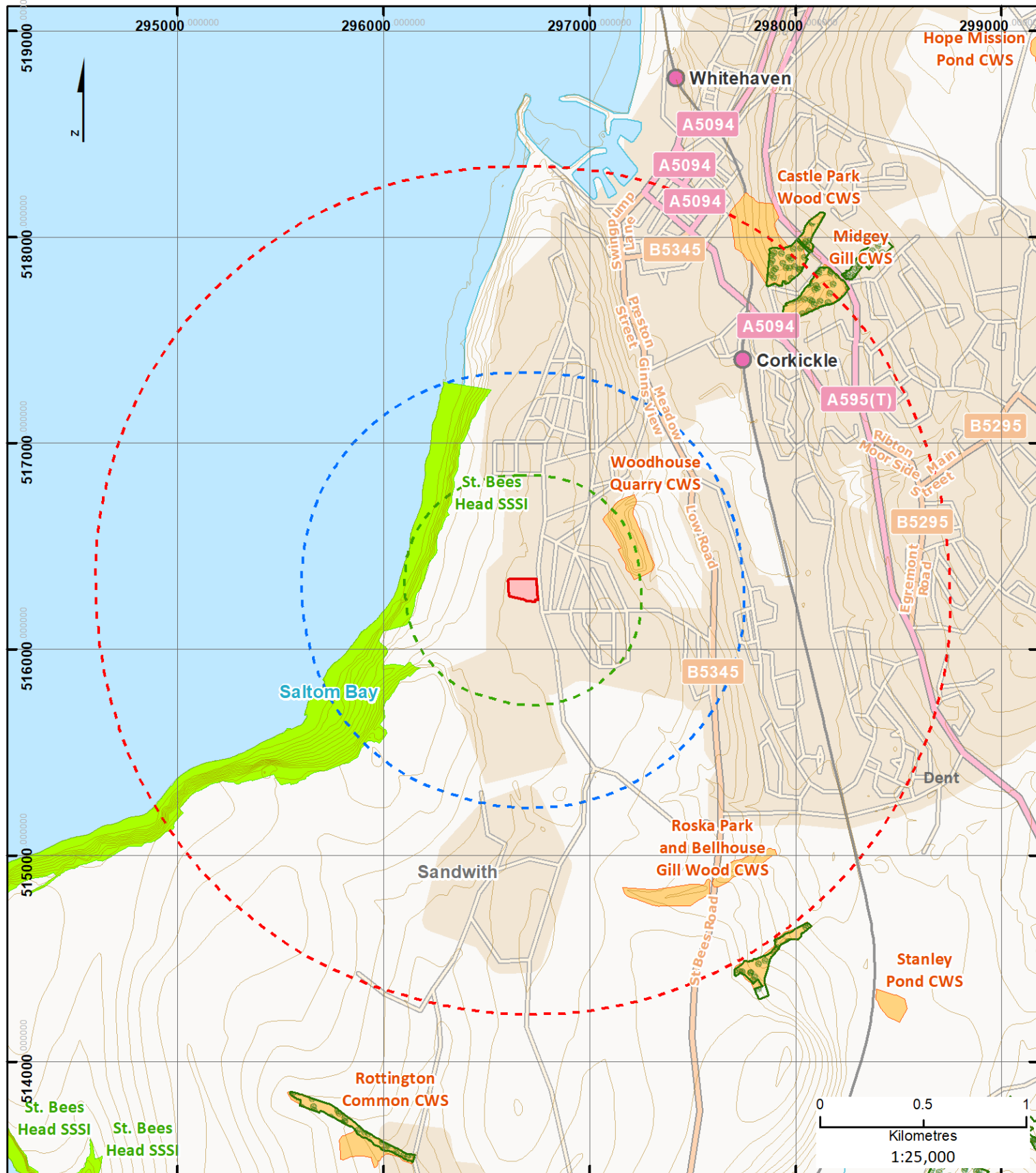
Photo 4 Bare ground and soil mounds on northern side of site



Photo 5 Species-poor coarse grassland on top of soil mounds



Photo 6 Species-poor grassland on soil mounds



Water's Edge, Whitehaven Map 1 Designated Sites

- Site boundary
- Sites of Special Scientific Interest
- 500m buffer
- 1km buffer
- 2km buffer
- Cumbria Wildlife Sites
- Ancient Woodland

Drawn by R Jerram 16 December 2019



4 Bankfield, Kendal LA9 5DR
Tel: 01539 726618
rigby@jerramecology.co.uk
www.jerramecology.co.uk



Water's Edge, Whitehaven Map 2 Rare and Protected Species

Drawn by R Jerram 16 December 2019

- | | | |
|--------------------|-------------------------------|-------------------------------------|
| Site boundary | insect - true fly (Diptera) | flowering plant |
| 500m buffer | insect - true bug (Hemiptera) | crustacean |
| 1km buffer | insect - moth | cartilaginous fish (Chondrichthyes) |
| 2km buffer | insect - hymenopteran | bony fish (Actinopterygii) |
| terrestrial mammal | insect - dragonfly (Odonata) | bird |
| reptile | insect - butterfly | amphibian |
| marine mammal | insect - beetle (Coleoptera) | |

Base mapping © Ordnance Survey Copyright 2019. All rights reserved. License number 100022432



4 Bankfield, Kendal LA9 5DR
Tel: 01539 726618
rigby@jerramecology.co.uk
www.jerramecology.co.uk



Water's Edge, Whitehaven **Map 3 Ecological Habitats**

- | | | |
|-------------------|---------------------|-------------|
| Boundary | Garden Shrubs | Young trees |
| Neutral Grassland | Ephemeral Grassland | Shrub |
| Damp Grassland | Bare Ground | Target note |
| Scrub | | |

Survey by R Jerram 29 November 2019



4 Bankfield, Kendal LA9 5DR
 Tel: 01539 726618
 rigby@jerramecology.co.uk
 www.jerramecology.co.uk

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Amphibian															
Common Toad	Bufo bufo	8	2012 - 2013	0.62			Yes	Sch 5 sect 9.5a				Yes		Yes	
Reptiles															
Slow-worm	Anguis fragilis	23	1998 - 2014	0.64			Yes	Sch 5 sect 9.1 (kill/injuring), sect 9.5a				Yes		Yes	
Common Lizard	Zootoca vivipara	23	1998 - 2014	1.33			Yes	Sch 5 sect 9.1 (kill/injuring), sect 9.5a				Yes		Yes	
Fish															
Mackerel	Scomber scombrus	1	2009	0.79			Yes					Yes			
Porbeagle Shark	Lamna nasus	1	1980	1.27			Yes		Vulnerable			Yes			StatusNb
Crustaceans															
Armadillidium pulchellum	Armadillidium pulchellum	4	2012	0.73											
Plants															
Bluebell	Hyacinthoides non-scripta	3	1999	1.61				Sch 8							
Henbane	Hyoscyamus niger	1	1992	1.27						Vulnerable					
Beetles															
Anotylus mutator	Anotylus mutator	1	2007	2.02											Notable
Barynotus squamosus	Barynotus squamosus	3	1996 - 2006	1.99											Notable-B
Bembidion saxatile	Bembidion saxatile	3	1996 - 2009	1.27											Notable-B
Cercyon littoralis	Cercyon littoralis	1	2009	1.27											NS-excludes
Cyanapion gyllenhalii	Cyanapion gyllenhalii	1	2008	0.85											Notable-B
Elaphropus parvulus	Elaphropus parvulus	1	2015	1.99											Notable-B
Heterota plumbea	Heterota plumbea	1	2009	1.27											Notable
Longitarsus membranaceus	Longitarsus membranaceus	2	1987 - 1999	0.00											
Mantura obtusata	Mantura obtusata	2	1998 - 2005	0.57											Notable-B
Microscydmus nanus	Microscydmus nanus	1	2012	1.30											Notable
Nicrophorus interruptus	Nicrophorus interruptus	1	2014	1.99											Notable-B

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Ochthebius lejolisi	Ochthebius lejolisi	1	2012	1.08											Notable-B, NS-excludes
Orthochaetes insignis	Orthochaetes insignis	10	1993 - 2001	1.99											Notable-B
Orthochaetes setiger	Orthochaetes setiger	2	2012	1.12											Notable-B
Philonthus fumarius	Philonthus fumarius	1	2012	0.58											Notable-B
Pterostichus cristatus	Pterostichus cristatus	16	1996 - 2012	1.71											Notable-B
Rhizophagus nitidulus	Rhizophagus nitidulus	1	2001	2.02											Notable-B
Scymnus schmidtii	Scymnus schmidtii	1	2008	0.51											Notable-B
Sitona ononidis	Sitona ononidis	1	1997	0.45											Notable-B
Trechus fulvus	Trechus fulvus	1	2012	1.25											Notable-B
Trechus rubens	Trechus rubens	1	2005	1.61											Notable-B
Tropiphorus terricola	Tropiphorus terricola	1	2011	1.17											Notable-B
Butterflies															
Small Heath	Coenonympha pamphilus	11	2010 - 2017	0.30			Yes			Near threatened		Yes		Yes	
Small Blue	Cupido minimus	3	2015 - 2017	0.50			Yes	Sch 5 sect 9.5a		Near threatened		Yes		Yes	
Dingy Skipper	Erynnis tages	7	1996 - 2017	0.81			Yes			Vulnerable		Yes		Yes	
Grayling	Hipparchia semele	22	1993 - 2013	0.95			Yes			Vulnerable		Yes		Yes	
Wall	Lasiommata megera	48	1991 - 2017	0.35			Yes			Near threatened		Yes		Yes	StatusNr
Comma	Polygonia c-album	7	2004 - 2010	1.10											StatusNr
Dragonflies															
Brown Hawker	Aeshna grandis	1	2013	1.86											StatusNr
Emperor Dragonfly	Anax imperator	1	2012	1.53											
Bees															
Moss Carder-bee	Bombus muscorum	1	1997	1.99			Yes					Yes		Yes	
Moths															
Garden Tiger	Arctia caja	2	2008 - 2016	0.85			Yes					Yes		Yes	
Latticed Heath	Chiasmia clathrata	2	2010 - 2016	0.92			Yes					Yes		Yes	
Latticed Heath	Chiasmia clathrata clathrata	3	2017	1.40			Yes					Yes		Yes	
Small Phoenix	Ecliptopera silaceata	8	2014 - 2017	1.50			Yes					Yes		Yes	
Ghost Moth	Hepialus humuli	2	2016	1.50			Yes					Yes		Yes	

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Dot Moth	Melanchra persicariae	3	1997 - 2014	1.99			Yes					Yes		Yes	
Buff Ermine	Spilosoma lutea	1	2016	1.50			Yes					Yes		Yes	
Cinnabar	Tyria jacobaeae	12	2000 - 2017	0.32			Yes					Yes		Yes	StatusNr
True bugs															
Acalypta carinata	Acalypta carinata	2	2012	1.12											StatusNr
Hairy Shieldbug	Dolycoris baccarum	4	1998 - 2012	0.51											StatusNr
Green Shieldbug	Palomena prasina	1	2015	2.02											StatusNr
Scolopostethus grandis	Scolopostethus grandis	2	2006 - 2008	0.51											StatusNr
Flies															
Chrysotoxum cautum	Chrysotoxum cautum	1	1996	1.99											
Dicranomyia chorea	Dicranomyia chorea	1	2008	1.08						Rare*					
Dicranomyia goritiensis	Dicranomyia goritiensis	3	2008 - 2009	0.35						Rare*					StatusNr
Molophilus pleuralis	Molophilus pleuralis	2	2008 - 2009	1.08											StatusNr
Xanthogramma pedissequum	Xanthogramma pedissequum	2	2010 - 2011	1.99											
Mammals															
Grey Seal	Halichoerus grypus	3	1993 - 2001	1.27	Annex 2*, Annex 5								Sch 4		
Common Seal	Phoca vitulina	2	2001 - 2014	0.76	Annex 2*, Annex 5		Yes					Yes	Sch 4	Yes	
Common Porpoise	Phocoena phocoena	7	1991 - 2002	1.27	Annex 2*, Annex 4		Yes	Sch 5 sect 9.5a				Yes	Sch 2	Yes	
Bats	Chiroptera	2	2003 - 2012	0.94	Annex 2*, Annex 4		Yes	Sch 5 sect 9.1 (kill/injuring), sect 9.4c, sect 9.5a		Critical, Endangered, Near threatened, Vulnerable		Yes	Sch 2	Yes	
Hedgehog	Erinaceus europaeus	32	1997 - 2016	0.63			Yes			Vulnerable		Yes		Yes	
Brown Hare	Lepus europaeus	1	2019	1.17			Yes					Yes		Yes	
Otter	Lutra lutra	2	2006 - 2012	1.97	Annex 2*, Annex 4		Yes	Sch 5 sect 9.1 (kill/injuring), sect 9.4c, sect 9.5a				Yes	Sch 2	Yes	
Badger	Meles meles	1	1999	1.90											Badger Act

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Pipistrelle Bat species	Pipistrellus	3	2001 - 2014	1.43	Annex 4		Yes	Sch 5 sect 9.1 (kill/injuring), sect 9.4c, sect 9.5a		Near threatened		Yes	Sch 2	Yes	
Common Pipistrelle	Pipistrellus pipistrellus	1	2001	1.30	Annex 4			Sch 5 sect 9.1 (kill/injuring), sect 9.4c, sect 9.5a					Sch 2	Yes	
Brown Long-eared Bat	Plecotus auritus	1	1996	1.77	Annex 4		Yes	Sch 5 sect 9.1 (kill/injuring), sect 9.4c, sect 9.5a				Yes	Sch 2	Yes	
Red Squirrel	Sciurus vulgaris	103	2002 - 2019	0.67			Yes	Sch 5 sect 9.1 (kill/injuring & taking), sect 9.2, sect 9.4a, sect 9.4c, sect 9.5a		Endangered		Yes		Yes	
Birds															
Lesser Redpoll	Acanthis cabaret	6	2009 - 2010	0.79			Yes				Red list	Yes		Yes	
Common (Mealy) Redpoll	Acanthis flammea	2	1998	0.79							Amber list				
Common Sandpiper	Actitis hypoleucos	1	2009	1.27							Amber list				
Skylark	Alauda arvensis	33	1997 - 2013	0.54		Annex 2.2					Red list	Yes		Yes	
Razorbill	Alca torda	13	1999 - 2011	2.15							Amber list				
Teal	Anas crecca	5	2009 - 2010	0.79		Annex 2.1					Amber list				
Wigeon	Anas penelope	2	2009 - 2010	2.57		Annex 2.1					Amber list				
Mallard	Anas platyrhynchos	21	1998 - 2010	0.79		Annex 2.1					Amber list				
Greylag Goose	Anser anser	4	2009 - 2010	2.37		Annex 2.1		Sch 1 pt 2			Amber list				
Pink-footed Goose	Anser brachyrhynchus	3	2007 - 2011	1.53		Annex 2.2					Amber list				
Meadow Pipit	Anthus pratensis	26	1998 - 2013	0.54							Amber list				
Swift	Apus apus	21	1998 - 2014	0.79							Amber list				

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Pochard	Aythya ferina	1	2010	2.57		Annex 2.1					Red list				
Goldeneye	Bucephala clangula	1	2009	2.57		Annex 2.2		Sch 1 pt 2			Amber list				
Purple Sandpiper	Calidris maritima	17	2007 - 2010	2.37				Sch 1 pt 1			Amber list				
Black Guillemot	Cephus grylle	34	2008 - 2012	1.90							Amber list				
Ringed Plover	Charadrius hiaticula	4	1999 - 2009	0.79							Red list				
Black-headed Gull	Chroicocephalus ridibundus	25	1998 - 2010	0.79		Annex 2.2					Amber list				
Long-tailed Duck	Clangula hyemalis	2	2009	2.76		Annex 2.2		Sch 1 pt 1	Vulnerable		Red list				
Quail	Coturnix coturnix	2	2008	2.15		Annex 2.2		Sch 1 pt 1			Amber list				
Cuckoo	Cuculus canorus	3	1998 - 2007	0.79			Yes				Red list	Yes		Yes	
Mute Swan	Cygnus olor	40	1997 - 2012	0.79		Annex 2.2					Amber list				
House Martin	Delichon urbicum	10	1998 - 2013	0.79							Amber list				
Yellowhammer	Emberiza citrinella	27	1998 - 2011	1.27			Yes				Red list	Yes		Yes	
Reed Bunting	Emberiza schoeniclus	20	1998 - 2012	0.79			Yes				Amber list	Yes		Yes	
Merlin	Falco columbarius	1	2011	2.15		Annex 1		Sch 1 pt 1			Red list				
Peregrine	Falco peregrinus	19	1999 - 2013	0.79		Annex 1		Sch 1 pt 1							
Kestrel	Falco tinnunculus	35	1998 - 2013	0.54							Amber list				
Pied Flycatcher	Ficedula hypoleuca	1	1999	2.37							Red list				
Puffin	Fratercula arctica	4	2008 - 2010	2.15							Red list				
Brambling	Fringilla montifringill	4	2010 - 2012	0.79				Sch 1 pt 1							
Fulmar	Fulmarus glacialis	19	1999 - 2012	2.15							Amber list				
Snipe	Gallinago gallinago	6	2004 - 2010	0.79		Annex 2.1					Amber list				
Red-throated Diver	Gavia stellata	1	2011	2.76		Annex 1		Sch 1 pt 1							
Oystercatcher	Haematopus ostralegus	17	1998 - 2010	0.79		Annex 2.2					Amber list				
Herring Gull	Larus argentatus	76	1998 - 2013	0.54		Annex 2.2					Red list				
Common Gull	Larus canus	9	2009 - 2012	0.79		Annex 2.2					Amber list				
Lesser Black-backed Gull	Larus fuscus	22	1998 - 2013	0.54		Annex 2.2					Amber list				

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Great Black-backed Gull	Larus marinus	24	1997 - 2013	0.79		Annex 2.2					Amber list				
Linnet	Linaria cannabina	23	1998 - 2013	0.54							Red list			Yes	
Twite	Linaria flavirostris	1	2011	2.15							Red list			Yes	
Grasshopper Warbler	Locustella naevia	7	1997 - 2011	0.35			Yes				Red list	Yes		Yes	
Gannet	Morus bassanus	4	2008 - 2013	1.08							Amber list				
Grey Wagtail	Motacilla cinerea	10	1999 - 2013	0.79							Red list				
Spotted Flycatcher	Muscicapa striata	8	1998 - 2013	0.54			Yes				Red list	Yes		Yes	
Curlew	Numenius arquata	4	1998 - 2009	0.79		Annex 2.2	Yes		Near threatened		Red list	Yes		Yes	
House Sparrow	Passer domesticus	56	1998 - 2013	0.79			Yes				Red list	Yes		Yes	
Tree Sparrow	Passer montanus	8	1998 - 2011	0.79			Yes				Red list	Yes		Yes	
Grey Partridge	Perdix perdix	9	1997 - 2013	0.54		Annex 2.1	Yes				Red list	Yes		Yes	
Shag	Phalacrocorax aristotelis	4	2007 - 2009	2.37							Red list				
Black Redstart	Phoenicurus ochruros	2	2009	2.15				Sch 1 pt 1			Red list				
Redstart	Phoenicurus phoenicurus	3	1998 - 2009	1.27							Amber list				
Wood Warbler	Phylloscopus sibilatrix	1	2009	2.76			Yes				Red list	Yes		Yes	
Willow Warbler	Phylloscopus trochilus	28	1998 - 2013	0.54							Amber list				
Duncock	Prunella modularis	53	1998 - 2013	0.54							Amber list			Yes	
Manx Shearwater	Puffinus puffinus	3	2009	2.15							Amber list				
Bullfinch	Pyrrhula pyrrhula	14	1998 - 2013	0.79							Amber list			Yes	
Kittiwake	Rissa tridactyla	8	2000 - 2011	2.15							Red list				
Whinchat	Saxicola rubetra	2	1999 - 2013	2.15							Red list				
Woodcock	Scolopax rusticola	3	2008 - 2009	0.79		Annex 2.1					Red list				
Mediterranean Gull	Larus melanocephalus	2	2009 - 2010	2.76		Annex 1		Sch 1 pt 1			Amber list				
Eider	Somateria mollissima	1	2009	2.76		Annex 2.2					Amber list				
Arctic Skua	Stercorarius parasiticus	2	2009 - 2011	2.15			Yes				Red list			Yes	

Table 1: Summary of Rare and Protected Species Records

Common Name	Scientific name	No. of Records	Years Recorded	Distance from Site (km)	Habitats Directive	Birds Directive	Biodiversity Action Plan species (2007)	Wildlife & Countryside Act (Sch 1, 5 & 8)	Global Red list Status	GB Red listing based on 2001 IUCN Guidelines	Red data Categories-Birds (not based on IUCN Guidelines)	Biodiversity Lists - England	Conservation (Natural Habitats & c) Regulations 2010	Cumbria LBAP	Statuses of nationally rare, notable, scarce
Sandwich Tern	<i>Sterna sandvicensis</i>	1	2008	2.76		Annex 1					Amber list				
Tawny Owl	<i>Strix aluco</i>	17	1997 - 2013	0.79							Amber list				
Starling	<i>Sturnus vulgaris</i>	56	1998 - 2013	0.54		Annex 2.2					Red list			Yes	
Greenshank	<i>Tringa nebularia</i>	1	2008	2.37		Annex 2.2		Sch 1 pt 1			Amber list				
Redshank	<i>Tringa totanus</i>	31	1998 - 2012	0.79		Annex 2.2					Amber list				
Redwing	<i>Turdus iliacus</i>	6	2009 - 2011	0.79		Annex 2.2		Sch 1 pt 1			Red list				
Song Thrush	<i>Turdus philomelos</i>	33	1998 - 2013	0.54		Annex 2.2					Red list			Yes	
Fieldfare	<i>Turdus pilaris</i>	6	2007 - 2010	0.79		Annex 2.2		Sch 1 pt 1			Red list				
Mistle Thrush	<i>Turdus viscivorus</i>	8	1997 - 2010	0.79		Annex 2.2					Red list				
Barn Owl	<i>Tyto alba</i>	22	1997 - 2011	0.79				Sch 1 pt 1						Yes	
Guillemot	<i>Uria aalge</i>	13	2000 - 2011	2.15							Amber list				
Lapwing	<i>Vanellus vanellus</i>	10	1997 - 2013	0.54		Annex 2.2	Yes				Red list	Yes		Yes	

9. Target Notes

1. Low-lying neutral grassland dominated by creeping bent *Agrostis stolonifera* with frequent Yorkshire fog *Holcus lanatus* and occasional tufted hair-grass *Deschampsia cespitosa* plus occasional to frequent creeping buttercup *Ranunculus repens* and occasional white clover *Trifolium repens*, ribwort plantain *Plantago lanceolata* and soft rush *Juncus effusus*.
2. Coarse grass dominated herb-poor neutral grassland on soil mounds. Red fescue *Festuca rubra* and Yorkshire fog *Holcus lanatus* are abundant with frequent common bent *Agrostis capillaris*, creeping thistle *Cirsium arvense*, creeping buttercup *Ranunculus repens* and broadleaved dock *Rumex obtusifolius*, plus locally frequent nettles *Urtica dioica* and occasional colt's-foot *Tussilago farfara*, ribwort plantain *Plantago lanceolata*, mugwort *Artemisia vulgaris*, hogweed *Heracleum sphondylium*, spear thistle *Cirsium vulgare*, yarrow *Achillea millefolium*, creeping cinquefoil *Potentilla reptans*, rosebay willowherb *Chamerion angustifolium*, common ragwort *Senecio jacobaea* and rare buddleja bushes.
3. Coarser version of **1** with abundant red fescue *Festuca rubra*, creeping bent *Agrostis stolonifera* and Yorkshire fog *Holcus lanatus* with frequent conglomerate rush *Juncus conglomeratus* and occasional broadleaved dock *Rumex obtusifolius*, creeping buttercup *Ranunculus repens* and ribwort plantain *Plantago lanceolata*.
4. Bramble *Rubus fruticosus* scrub at foot of soil mound with occasional rosebay willowherb *Chamerion angustifolium*, red fescue *Festuca rubra* and false oat-grass *Arrhenatherum elatius*.
5. Largely bare ground with a thin covering of ephemeral grassland ranging from 5 – 60% vegetation cover but mostly 5 – 10%. Species present include white clover *Trifolium repens*, common bent *Agrostis capillaris*, Yorkshire fog *Holcus lanatus*, creeping bent *Agrostis stolonifera*, common ragwort *Senecio jacobaea*, groundsel *Senecio vulgaris*, ribwort plantain *Plantago lanceolata*, colt's-foot *Tussilago farfara*, cock's-foot *Dactylis glomerata*, creeping buttercup *Ranunculus repens*, dandelion *Taraxacum officinale* and annual meadow grass *Poa annua*.
6. Small area of ornamental shrubs and plants including agave, cotoneaster and penstimum.