Appendix F1 PHASE 1 HABITAT SURVEY 2008: TARGET NOTES

Target Note	Description/Comment
	eard: Skylark, Meadow Pipit, Stonechat, Goldfinch, Robin, Dunnock, Bullfinch, Pied Wagtail, Blackbird, Great Tit, Blue Tit, Wren, Song Thrush, Kestrel, Carrion Crow, Herring Gull, Black Headed Gull, Lesser Black-backed Gull, Wood Pigeon, Magpie, Great Crested Grebe, Cormorant
1	One well-established and probably untreated colony of Japanese Knotweed straddling the site boundary fence in Butterfly-bush scrub. Dimensions of colony estimated to be 8m x 10m.
2	Very dense Butterfly bush and Gorse scrub along bank associated with railway - bushes have retained leaves throughout the winter and so may conceal small stands of Japanese Knotweed. The scrub is several metres high. Many mammal paths leading into scrub indicative of rabbit/fox (Fox hair found). High bird nesting potential.
3	Small clumps of Japanese Knotweed on railway embankment (outside survey area but within a few metres of the boundary). Railway track inclines on an earth bank towards the west providing opportunities for Badgers along the length of the bank. Boundary fence backs onto an unmanaged railway track fully colonised by broadleaved shrubs and scrubs over gravel and early successional vegetation. Railway track is likely to function as a suitable wildlife corridor for mammals, reptiles and birds. Fence line has a sizable gap underneath along its entire length, which provides ample opportunities for mammals to enter the site. Evidence of rabbits along identified mammal paths. Dense Gorse scrub and Butterfly Bush encroaches onto the site along the fence line.
4	Several small colonies of Japanese Knotweed close to the fence (within survey area). Scrub along fence line has high potential for nesting birds. Long grassland, tall herbs and dense scrub adjacent to a railway corridor provide a suitable foraging and nesting habitat for birds. Large banks of colonised rubble to the south also provide good shelter from wind/weather. Large flock of goldfinches foraging around Teasel stands.
5	Spoil pile comprising large irregular blocks of concrete rubble, with the top parts colonised by Butterfly bush but little other vegetation.
6	Very closely rabbit-grazed grassland community which appears to be moderately diverse with small annual mouse-ears, Buck's-horn Plantain and the mosses <i>Homalothecium lutescens, Brachythecium albicans</i> and <i>Barbula unguiculata</i> . Less suitable for reptiles or nesting skylark.
7	These spoil heaps are typically3-4 metres high with an underlying substrate of gravel-stone-soil or rubble and soil, deposited in a series of steps/terraces with steep sides. They are mostly fully vegetated with neutral grassland likely to be of low diversity. In many places Creeping Bent and Hairy Sedge are abundant, with Gorse and Butterfly bush on the slopes. Vigorous herbs are also present, especially Bristly Ox-tongue, docks, Wild Parsnip and Creeping Thistle. Some areas support significant stands of Great Horsetail. The heaps

_	
	have been used for informal recreation e.g. biking and there are some areas of erosion.
8	Area of standing water (ca. 30m across) at foot of spoil heaps. Up to 30cm of water but may be seasonal. Vegetation suggests that the ground stays damp all year at least. Species present include small stands of Sea Club-rush, Bulrush, Hard Rush and an unidentified sweet-grass. There are also extensive carpets of the moss <i>Warnstorfii aduncus</i> . Potentially suitable for common amphibians and will require amphibian survey. Water frequently used by crows and gulls.
9	Rank neutral grassland dominated by False Oat-grass considered to have low intrinsic botanical interest but supporting a small population of Corky-fruited Water-dropwort, a species of considerable local rarity value.
10	Very steep cliff/bank supporting inaccessible neutral to slightly calcareous grassland with scattered saplings and scrub (mostly Hawthorn). False Brome is the dominant grass on the bank - the vegetation community appears to be relatively species-poor. Bramble and Traveller's-joy are encroaching. Steep cliff largely colonised by grass and scrub with few areas of exposed rock- Not likely to be suitable for nesting birds-of-prey although scrub has some potential for passerines despite heavy shading.
11	Large industrial Warehouse. Building is corrugated steel throughout with corrugated sheeting on the roof. The inside of the building consists of a large void extending up to metal rafters, which backs onto single corrugated roof sheets which is intact throughout. The western elevation is largely exposed – allowing wind and rain in. The building appears wholly unsuitable for bats although it was not closely inspected due to H & S issues. Nearby small brick-built flat-roofed hut to southwest with front access exposed. Whole building is covered in dense ivy covering. No value to roosting bats
12	Brownfield vegetation developed across an area of demolished structures. Substrate appears to be crushed brick and concrete. Appears to be at least moderately botanically diverse and could support notable species. Species that could be identified in the community at the time of survey included Tall Melilot, Hoary Mustard, Bristly Ox-tongue and Colt's-foot. Bare ground in between foundations colonised by rank grassland and ephemeral vegetation potentially suitable to support common reptiles particularly lizards. Some poorly drained areas holding water may need checking later in the season. Brick built sub station with flat concrete roof and few opportunities for access.
	Of little if any value to roosting bats. Fascia boards lifting and split in places although the building is isolated and exposed to weather.
14	Very species-poor neutral grassland dominated by Red Fescue, along with frequent Creeping Thistle and Cock's-foot. Of very low intrinsic botanical interest. Grassland seems to be frequently used by dog walkers. Likely to support common reptiles, small mammals and grassland nesting bird species such as Skylark, Meadow Pipit and Wheatear. Area is relatively undisturbed and likely to be rich in invertebrates- providing foraging habitat for bats. Kestrel noted hunting over all grassland areas. Crow assemblage noted in numbers exceeding 50. The grassland contains areas of scrub and tall herbs such as teasel, which are valuable to foraging birds. Some areas with sporadic stands of pampas grass, which may provide

cuita	
Furth Mang in ma Furth high	able shelter for reptiles. Reptile mats were noted across the site. her surveys recommended for birds, bats, reptiles and invertebrates. by areas are poorly drained and large pools of standing water have formed any areas proving potential breeding habitat for common amphibians. her survey required. Area of gorse lining the trackway over grassland of value to nesting birds. Likely to support a diversity of finches and hers.
with spec	contally inter-bedded cliff exposure. Appears to be limestone interbedded mudstone or shale. Supports patchy False Brome grassland and scrub sies, which suggest that soils are likely to be near neutral to slightly areous in reaction.
herb Com Fleat Prom	cies-rich early successional vegetation supporting a variety of different s, grasses and mosses. Herbaceous species include Lesser Trefoil, mon Vetch, Field Madder, Perforate St. John's-wort and frequent Canadian bane. Vegetation and substrate likely to support common Lizard. In minent mosses include Barbula unguiculata, Bryum capillare, Bryum bicolor Funaria hygrometrica.
	water dock. Deep water retained by vertical stone walls with negligible time vegetation.
Falle geold faller path Goat each good grass birds	sed cliff face with well defined stratified layers of limestone and scree. In/eroded rocks at base of cliffs have ammonite fossils. Potential origical importance. Mature Willow on cliff with few splits and cracks and in limbs. Generally considered of low potential for bats. Well used mammal up cliff face to around base of tree- no setts or burrows. A Goat Willow or Willow-Grey Willow hybrid at the top of a low cliff. Has two main trunks, i.e. 30cm diameter. The tree is c. 6-7 metres high and is apparently in a health. Cliff is steep and heavily vegetated with dense bramble and so with occasional tree and shrub. There are no suitable ledges for nesting of prey such as kestrel or Peregrine although the trees may serve as thes. Dense bramble may have value for breeding passerines.
surro	where there is a complex mosaic of bare ground (concrete footings) bunded by early successional vegetation, scattered Butterfly-bush scrub small patches of neutral grassland dominated by Creeping Bent.
remo of Br	is an area where there were previously many silos/storage tanks, now oved and leaving patches of bare and broken ground. An irregular mosaic rownfield vegetation and small patches of species-poor neutral grassland subsequently developed across the area.
Fasc to th	station similar to others. Brick built with flat roof of low potential to bats. ia boards are cracked and lifted but building is fairly isolated and exposed e weather.
hous pudo	vated area with spoil and dumped material including masonry and sehold waste. Appears to have impeded drainage, as there are a few small dles of standing water. Dipped area of ground with some pools of standing or some with algae. Very little if any opportunities for breeding amphibians
	likely to be seasonally dry. Pigeon kill suggestive of fox.

	potential to bats. Dense scrub below colonised over a disused railway track- good connectivity/corridor into nearby habitats. Scrub is very dense and may require a through search for badger sett if affected by development
24	Interesting short-herb vegetation growing over stone chippings and in tarmac cracks. Species recorded here included the mosses Didymodon fallax, Barbula unguiculata and Ceratodon purpureus, Biting Stonecrop, Common Whitlowgrass, Oxford Ragwort, Weld, Hoary Mustard, Rue-leaved Saxifrage, Field Mouse-ear and Wild Carrot. There is also a small population of the locally rare Lesser Chickweed.
25	Planted standard maples (not possible to identify to species without leaves) in front of derelict building, growing in what is now rank MG1 grassland. The trees are young, not more than 6 metres high, with a trunk diameter of 20-30cm. They are not in good condition, as some are leaning, with dead branches and cracked bark.
26	NERC Vessel Research Services. Flat roofed, brick built office block with most windows boarded up. Spaces under boards and smashed windows provide adequate means of entrance. Buildings are of medium potential for bats and require further investigation. The west side of the warehouse provides a well-used pigeon roost.
27	Species-poor rank False Oat-grass (MG1) neutral grassland, probably former amenity grassland, long unmanaged suitable for reptiles. Many Hawthorn bushes are encroaching into the grassland. Large bank to the east colonised by a dense stand of hawthorn blackthorn scrub with some gorse. Likely to be a hot spot for nesting birds. Fox seen. No signs of badger seen.
28	Two sub-mature planted willows, likely to be either White Willow or Crack Willow cultivars. Both trees appear to be healthy, with a canopy height of about 10m and Ivy growth on the trunks.
29	Two 10m tall Leyland Cypress at the edge of an encroaching scrub belt. Bare at the base, but upper parts are dense and apparently healthy.
30	Bank appears to be relatively nutrient-poor and supports a patchy but moderately diverse vegetation cover, which includes Common Centaury.
31	Young ornamental pine saplings (no cones present). 2-3 metres high, planted at intervals beside pavement.
32	Rank sward suitable for reptiles. Nearby railway track provides connectivity to nearby habitats for reptiles and mammals. Sward is rabbit grazed and is used by gulls as a roost site- mussel shells and feathers around- wings feathers also found (suggestive of fox kill).
33	Earth Bank along access road with areas of dense scrub. Numerous rabbit burrows-with rabbit fur on nibbled bramble around entrance holes. No signs of badger. Dense scrub along railway track of high value to breeding birds. The whole area is fairly undisturbed other than a low speed train passing nearby once or twice a day
34	Rabbit burrows in earth bank. Larger holes near to harbour edge although the hole tapers off into small hole- not badger.
35	Substation. Brick built with flat roof and limited access into the internal void. Largely unsuitable for bats. Wooden fascias are loose and there are gaps in the soffit but unlikely to be suitable on account of exposed and isolated

	nature of building.
36	Dock wall 6-8 metres above water level is lined with stone setts with a gradient estimated to be c. 45°.
37	Dense cluster of gorse likely to be of value to nesting birds and used for shelter by rabbits. Evidence of rabbit 'forms' and grazing around base. Grassland of value to reptiles, gulls and grassland nesting species such as skylark and meadow pipit. Few areas of standing water but likely to be seasonally dry- unsuitable for breeding amphibians. No evidence of badger foraging or dung pits.
38	Bank along fence has numerous rabbit holes and burrows. The bank also contains a hole characteristic of badger with guard hair on the ceiling of the entrance
39	Another series of badger holes with guard hair at entrance. Clear current use by rabbits
40	Underground compartment associated with swing bridge. Low potential for bats.
41	Culvert over earth partially covered by a large steel plate. Large hole in earth with hole characteristic of badger. Entrance to culvert has a lot of fry grass bedding and badger guard hairs. Likely to be an outlier sett.
42	An extensive area of Brownfield vegetation over calcareous stone chippings. Appears to be at least moderately diverse and may support notable plant species. Identifiable species include Common Bird's-foot-trefoil, Ribwort Plantain and the moss <i>Cratoneuron filicinum</i> .
43	Landscaped gravel garden based on minimalistic planting of e.g. phormium and cordyline species over a substrate of marine gravel and slate chippings. Unoccupied modern building with boarded window on southern elevation where window has been smashed. Of no value to bats.

Appendix F2: Bird Species Recorded

Appendix II Bird Species List

		Conservation	
Species		Significance	Notes
Common Sandpiper	Actitis hypoleucos		Seen offsite on outflow pipe on Esplanade
	Phoenicurus		
Black Redstart	ochruros	S1 BCC(A)	Seen once around the scrub in West Pond.
Blackbird	Turdus merula		Numerous
Blackcap	Sylvia atricapilla		In scrub in the south of west pond
Blue Tit	Cyanistes caeruleus		Seen occasionally in dense scrub
Carrion Crow	Corvus corone		Numerous. Abundant on grassland
Chaffinch	Fringilla coelebs		In scrub in West Pond
	Phylloscopus		
Chiffchaff	collybita		West Pond behind Tank Wash
Cormorant	Phalacrocorax carbo	BCC(A)	Associated with dock basin and edge.
Curlew	Numenius arquata	UKBAP BCC(A)	13 seen flying over from west
Dunnock	Prunella modularis	UKBAP BCC(A)	Occasional. Associated with scrub
Feral Pigeon	Columba livia		Dominant. Associated with abandoned buildings
Goldfinch	Carduelis carduelis		Seen across the site in scrub
Great Crested Grebe	Podiceps cristatus		Frequently seen in dock basin
Great Tit	Parus major		Seen occasionally in dense scrub
Greenfinch	Carduelis chloris		Numerous. Associated with trees and hedgerows
Herring Gull	Larus argentatus	UKBAP BCC(A)	Dominant
Hobby	Falco subbuteo	S1	Seen once flying around scrub in West Pond
House Martin	Delichon urbicum	BCC(A)	Flying over site from north
House Sparrow	Passer domesticus	UKBAP BCC(R)	Associated with site boundary
Jackdaw	Corvus monedula		Numerous. Abundant on grassland
Kestrel	Falco tinnunculus	BCC(A)	Frequently seen hunting on West Pond
Lesser Black		200(1)	The special section of the section o
backed Gull	Larus fuscus	BCC(A)	Dominant
			One heard on northern boundary of west
Lesser Whitethroat	Sylvia curruca	0.40.4445	pond
Linnet	Carduelis cannabina	S42 UKBAP	Seen in scrub in West Pond
Lilliet	Carduells Carlilabilla	BCC(R)	2-3 seen along main scrub line in southwest
Long-tailed Tit	Aegithalos caudatus		of West Pond
Magpie	Pica pica		In scrub and grassland
Mallard	Anas platyrhynchos		Occasionally associated with pond in West Pond
Mute Swan	Cygnus olor	BCC(A)	Occasionally flying over
Meadow Pipit	Anthus pratensis	BCC(A)	Occasionally seen in grassland areas
Pied Wagtail	Motacilla alba	200(/1)	on Esplanade
i iou wagtali	וייוטנטטוום מוטמ		on Lapianauc

Robin	Erithacus rubecula		Seen in scrub on South Quay
Sandwich Tern	Sterna sandvicensis		Seen on water edge
Shelduck	Tadorna tadorna	BCC(A)	Flying over water basin
Short-eared Owl	Asio flammeus	BCC(A)	Seen on one occasion over West Pond (mobbed by gulls)
Skylark	Alauda arvensis	S42 UKBAP BCC(R)	Abundant in open grassland areas in West Pond and East Quay
Song Thrush	Turdus philomelos	S42 UKBAP BCC(R)	in West Pond
Starling	Sturnus vulgaris	UKBAP BCC(R)	seen in pairs flying around the site with young birds
Swallow	Hirundo rustica	BCC(A)	Seen foraging over grassland
Wheatear	Oenanthe oenanthe		A pair frequently seen on the grass and bare areas and on spoil piles
Whitethroat	Sylvia communis		Heard in scrub in west pond
Woodpigeon	Columba palumbus		Numerous. Associated with scrub and site boundary
Wren	Troglodytes troglodytes		Frequently heard

Appendix F3: Terrestrial Invertebrates Recorded

Group/Species	Common Name	Status/note s		h Ju 200			th Ju 200	-	15th Aug 2008			
			Α	В	С	Α	В	С	Α	В	С	
Mollusca: Gastropoda	Snails & Slugs											
Arion ater	Large black slug			Х			Χ	Х				
Cepaea hortensis	White-lipped snail				Χ							
Derocereas reticulatum	Field slug			Х								
Helix aspersa	Garden snail			Х	Х		Χ			Х	Х	
Limax flavus	slug				Χ							
Trichia hispida	hairy snail				Х							
Crustacea: Isopoda												
Armadillidium nasatum	Woodlouse	Local	Х	Х			Х	Х			Х	
Armadillidium vulgare	Woodlouse				Χ	Х		Х		Х		
Ligia oceanica	Woodlouse						Х					
Oniscus asellus	Woodlouse				Х	Х		Х			Х	
Philoscia muscorum	Woodlouse			Х				Х				
Porcellio scaber	Woodlouse				Х			Х		Х	Х	
Myriapoda: Diplopoda												
Glomeris marginata	Pill millipede							Х				
Tachypodoiulus niger	Millipede				Х							
Arachnida: Aranea	Spiders											
Araniella cucurbitina /	-		х					Х		Х	Х	
opisthographa	Green orb spider											
Araneus diadematus	Garden spider								Х	Х	Х	
Dysdera crocata	Woodlouse spider							Х		Х	Х	
Misumena vatia	Crab spider		Х									
Coelenterata - Cnidaria											<u> </u>	
Aurelia aurata	Moon jellyfish	In quay			Х						Х	
Insecta: Lepidoptera	Butterflies											
Aglais urticae	Small tortoiseshell										Х	
Aphantopus hyperantus	Ringlet							Х				
Erynnis tages	Dingy skipper	UK BAP			Х							
Gonepteryx rhamni	Brimstone		1		<u> </u>						Х	
Lycaena phlaeas	Small copper										X	
Maniola jurtina	Meadow brown					Х		Х	Х	Х	X	
Ochlodes venata	Large skipper			Х	Х	<u> </u>		X			<u> </u>	
Pararge aegeria	Speckled wood			<u> </u>	Х			<u> </u>			Х	
Pieris brassicae	Large white		+		X	Х			Х		X	
Pieris napi	Green-veined white	1	1		X	<u> </u>			<u> </u>		X	
Pieris rapae	Small white			Х	<u> </u>						X	
Polyommatus icarus	Common blue		Х	Х	Х				Х	Х	X	
Pyronia tithonus	Gatekeeper	+	+	- 	 ``	1	Х	Х	Х	L'`	X	

Group/Species	Common Name	Status/note s		6th June 2008						8th July 2008			15th Aug 2008		
			Α	В	С	Α	В	С	Α	В	С				
Thymelicus sylvestris	Small skipper					Х		Х							
Vanessa atalanta	Red admiral										Х				
Insecta: Lepidoptera	Moths														
Agriphila geniculea	a grass-moth									Х	Х				
Agriphila latistria	a grass-moth	Local													
Agriphila straminella	a grass-moth										Х				
Agriphila tristella	a grass-moth								Х	Х					
Ancylis badiana	a tortricid moth								Х						
Aplocera plagiata	Treble Bar	Local									Х				
Autographa gamma	Silver y					Х				Х	Х				
Bryotropha terrella	a micro-moth						х								
Camptogramma bilineata	Yellow-shell		Х	Х			Х				Х				
Chiasmia clathrata	Latticed heath	UK BAP		1			†		Х		Х				
Crambus perlella	a grass-moth						Х	Х	<u> </u>						
Cydia nigricana	a tortricid moth							Х							
Elachista argentella	a micro-moth		Х												
Epiphyas postvittana	Light brown apple										Х				
Fuelidia divebias	moth	Local									<u> </u>				
Euclidia glyphica	Burnet companion a tortricid moth	Local		Х					V						
Grapholita compositella Gymnoscelis rufifasciata									Х		ļ.,				
	Double-striped Pug a tortricid moth										Х				
Hedya nubiferana					Х		-	l			-				
Lyonetia clerkella	a micro-moth							Х							
Mesoligia furuncula	Cloaked minor	Lasal					-		Х	Х	 				
Semiaspilates ochrearia	Yellow belle	Local			l		ļ.,	l	Х	Х	Х				
Tyria jacobaeae	Cinnabar	UK BAP			Х		Х	Х			-				
Zygaena filipendulae	Six-spot burnet			Х	Х	Х	Х	Х	Х	Х	Х				
Zygaena lonicerae	Narrow-bordered Five-spot burnet					Х	Х								
	Dragonflies &														
Insecta: Odonata	Damselflies														
Anax imperator	Emperor dragonfly				Х						Х				
Coenagrion puella	Azure damselfly				X										
	Golden-ringed				<u> </u>			Х							
Cordulegaster boltonii	dragonfly	SINC C						^							
Ischnura elegans	Blue-tailed							Х			Х				
ischilara cicgaris	damselfly														
Libellula depressa	Broad-bodied chaser				Х										
Orthetrum cancellatum	Black-tailed	SINC C									Х				
	skimmer						1				<u> </u>				
Pyrrhosoma nymphula	Large red damselfly										Χ				
Sympetrum striolatum	Common darter		-								Х				
Insecta: Orthoptera	Grasshoppers & Crickets														
Chorthippus brunneus	Common field				Х	Х	Х	Х	Х	Ì	Х				

Group/Species	Species Common Name		6th June 2008				th Ju 200	-	15th Aug 2008			
			Α	В	С	Α	В	С	A	В	C	
	grasshopper		1	_	Ť		-	Ť	-		Ť	
01 11:	Meadow				Х		Х	Х	Х	Х	Х	
Chorthippus parallelus	grasshopper											
0 1 1 1 1	Long-winged	OINIO D					Х	Х	Х		Х	
Conocephalus discolor	conehead	SINC P										
Forficula auricularia	Common earwig			Х	Х	Х			Х			
Leptophytes punctatissima	Speckled	SINC C							Х		Х	
Leptophytes punctatissima	bushcricket	31110 0										
Myrmeleotettix maculatus	Mottled	SINC C						Х	Х			
Wymicicotettix macaiatas	grasshopper	01110 0										
Insecta: Coleoptera	Beetles										<u> </u>	
Adalia bipunctata	Two-spot ladybird					Х				Х	Х	
Amara Iunicollis	Ground beetle										Х	
Apion assimile	Weevil		Х									
Apion ervi	Weevil			Х								
Bembidion lampros	Ground beetle							Х				
Bradycellus harpalinus	Ground beetle										Х	
Calathus fuscipes	Ground beetle				Х						Х	
Cantharis thoracica	Soldier beetle				Х							
Cassida flaveola	Leaf beetle				Х							
Chrysolina hyperici	Leaf beetle				Х							
Cionus scrophulariae	Weevil			Х								
Coccinella septempunctata	Seven-spot ladybird	A I' -	Х	Х		Х	Х	Х	Х	Х	Х	
Harmonia axyridis	Harlequin Ladybird	Alien				Х					Х	
Harpalus affinis	Ground beetle		Х	Х	Х		Х	Х				
Harpalus rubripes	Ground beetle							Х				
Harpalus rufipes	Ground beetle	Lasal						Х			X	
Hippodamia variegata	Adonis ladybird	Local									Х	
Lampyris noctiluca	Glow-worm Ground beetle	SB (2008) Local										
Nebria salina	Devil's coach-horse	Local			Х		\ \ \				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Ocypus olens	beetle						Х				Х	
	Thick-legged flower				Х						-	
Oedemera lurida	beetle				^							
Oedemera nobilis	Thick-kneed beetle				Х	Х						
Olisthopus rotundatus	Ground beetle				Х		Х	Х				
Ophonus ardosiacus	Ground beetle	NNb					, ,			Х		
Ophonus sp.	Ground beetle	11110		Х						Х		
Otiorhynchus rugosostriatus	Weevil	Local		X						, A		
Oxystoma ?cerdo	Weevil	NNb									Х	
Paradromius linearis	Ground beetle			Х							<u> </u>	
Polydrusus formosus	Weevil	NNa		Х								
Pterostichus madidus	Ground beetle			X	Х		Х	Х			Х	
Pterostichus niger	Ground beetle			<u> </u>	X		<u> </u>	X			<u> </u>	
Rhagonycha fulva	Soldier-beetle				<u> </u>	Х	Х	X				
Rhagonycha translucida	Soldier-beetle				Х	<u> </u>	<u> </u>	<u> </u>				
Sitona humeralis	Weevil								Х		 	

Group/Species	cies Common Name	Status/note s	6th June 2008				th Ji 200	-	15th Aug 2008			
			Α	В	С	Α	В	С	Α	В	C	
Sitona puncticollis	Weevil	Local				Х						
Sitona striatellus	Weevil			Х							Х	
Insecta: Hymenoptera	Bees, Wasps & Ants											
Ammophila sabulosa	A sand wasp										Х	
Apis mellifera	Honey bee							Х		Χ	Х	
Bombus hortorum	Garden bumblebee					Х	Х	Х	Χ		Х	
Bombus lapidarius	Red-tailed bumblebee		Х		Х	Х		Х	Х	Х	Х	
Bombus pascuorum	Common carder- bee		Х			Х		Х	Х	Х	Х	
Bombus pratorum	Early Bumblebee									Х	+	
Bombus terrestris	Buff-tailed bumblebee		Х		Х	Х		х	Х	Х	Х	
Diplolepis rosae	Robin's pin-cushion gall wasp						Х					
Lasius flavus	Yellow meadow-ant			Х			Х	Х			+	
Lasius niger	Black garden ant		Х		Х					Х	Х	
Vespula vulgaris	Common wasp										Х	
, 5											1	
Insecta: Diptera	Flies										1	
Anomoia purmunda	Tephritid fly							Х				
Chloromyia formosa	Soldier-fly				Х							
Dolichopus plumipes	Dolichopodid fly				Χ							
Episyrphus balteatus	Hoverfly				Χ				Χ		Х	
Eristalis arbustorum	Hoverfly							Х			Х	
Eristalis tenax	Hoverfly								Χ	Χ	Χ	
Eupeodes corollae	Hoverfly										Х	
Helophilus pendulus	Hoverfly							Х			Х	
Helophilus trivittatus	Hoverfly	Local									Х	
Hercostomus germanus	Dolichopodid fly				Х						<u> </u>	
Ilione albiseta	Snail-killing fly				Х						<u> </u>	
Limnia paludicola	Snail-killing fly				Х							
Melanostoma mellinum	Hoverfly					Х						
Melanostoma scalare	Hoverfly					Х					-	
Oxyna parientina	Tephritid fly				X		-				\vdash	
Pipizella virens	Hoverfly				X		-				\vdash	
Platycheirus albimanus	Hoverfly				X		V				+-	
Platycheirus alygatus	Hoverfly				Х	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Х				+-	
Platycheirus clypeatus Poecilobothrus nobilitatus	Hoverfly Dolichopodid fly					X	1	V			\vdash	
Scaeva pyrastri	Hoverfly					Х	-	Х	v	v	+	
Scathophaga stercoraria	Yellow dung-fly				Х	Х	+	Х	X	X	X	
Sphaerophoria interrupta agg.	Hoverfly			Х	1	^	+	^	^	^	X	
Sphaerophoria scripta	Hoverfly			^	X	v	1		Х			
Syntornom pallipes	Dolichopodid fly				X	Х	1		^		+	
Syritta pipiens	Hoverfly		Х		X		1				Х	

Group/Species	up/Species Common Name	Status/note s	6th June 2008				th Ju 200	-	15th Aug 2008			
			Α	В	С	Α	В	С	Α	В	С	
Syrphus ribesii	Hoverfly				Х							
Syrphus vitripennis	Hoverfly										Х	
Terellia serratulae	Tephritid fly				Х							
Tipula oleracea	Cranefly				Х						Х	
Tipula paludosa	Cranefly				Х			Х			X	
Urophora cardui	Gall-fly				Х			<u> </u>			 	
Urophora stylata	Tephritid fly				Х							
Urophora sp	Fruit-fly				Х							
Xanthogramma pedissequum	Hoverfly				X						-	
Xyphosia miliaria	Tephritid fly											
Aypriosia Illiliaria	Tepinitia ny				Х							
Insecta: Heteroptera	True Bugs											
Adelphocoris lineolatus	Lucerne bug										Х	
Aelia acuminate	Bishop's mitre bug										Х	
Closterotomus norwegicus	Potato capsid						Х					
Coriomerus denticulatus	A squash bug	Local		Х	Х							
Corizus hyoscyami	Rhopalid bug	Local							Х			
Cymus melanocephalus	Stiltbug	20001							<u> </u>		Х	
Deraeocoris lutescens	Mirid bug							Х				
Dichyphus annulatus	Mirid bug						Х	^				
Dolycoris baccarum	Hairy shieldbug						^		Х	Х	Х	
Elasmostethus interstinctus	Shieldbug		+		V				^	^		
	Tortoise bug				Х						 	
Eurygaster testudinaria											X	
Gerris sp	Pond skater										Х	
Himacerus mirmicoides	ant damsel bug						Х	Х	Х			
Leptopterna ferrugata	Mirid bug					Х					<u> </u>	
Lygocoris pabulinus	Common green				Х		Х	Х	Х	Х		
	capsid										<u> </u>	
Macrotylus paykulli	Mirid bug						Х				<u> </u>	
Nabicula flavomarginata	Broad damsel bug										Х	
Nabis rugosus	Common damsel						Х					
	bug										<u> </u>	
Notostira elongata	Mirid bug						Х		Х	Х	Х	
Palomena prasina	Common green				Х							
	shieldbug										<u> </u>	
Phytocoris varipes	Mirid bug		1				Х				Х	
Plagiognathus chrysanthemi	Mirid bug		+			Х					<u> </u>	
Stenodema laevigatum	Mirid bug							Χ			<u> </u>	
Stenotus binotatus	Mirid bug		1			Χ	Χ				<u> </u>	
Trigonotylus ruficornis	Mirid bug						Х				<u> </u>	
	Froghoppers,										 	
Insecta: Homoptera	leafhoppers & aphids											
Aphrophora alni	Alder spittlebug				Х			Х				
Livia juncorum	Jumping plant louse	Local						Х				
Macrosiphum rosae	Rose aphid		1				Х	Х		Х	Х	

Group/Species	Common Name	Status/note s	6th June 2008			8th July 2008			15th Aug 2008		
			Α	В	C	Α	В	С	Α	В	С
Neophilaenus lineatus	Spittle bug					Х					
Philaenus spumarius	Common froghopper				Х						Х
Insecta: Neuroptera	Ant-lions, lacewings & allies										
Chrysoperla carnea agg	Green lacewing										Х

Key

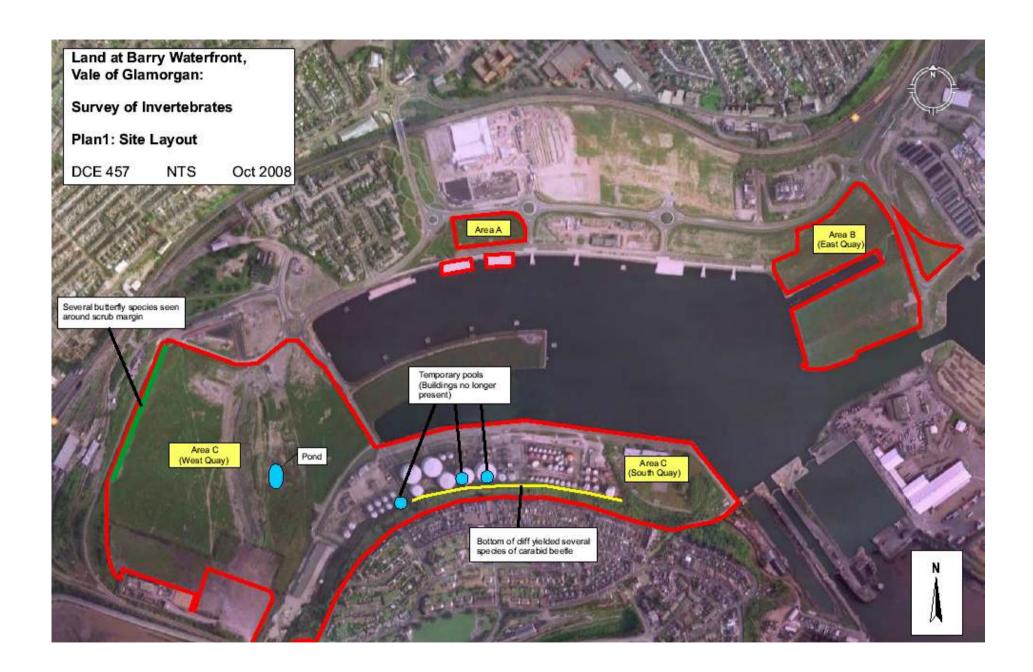
NNa : Nationally Notable 'A': Recorded in 15-35 10km squares in the UK
NNb : Nationally Notable 'B': Recorded in 36-100 10km squares in the UK

UK BAP : UK Biodiversity Action Plan Priority Species

Local : Local species

SINC Status: lists compiled in Guidelines for the Selection of Wildlife Sites in South Wales (2004)

SINC P : Qualifying species SINC C : Contributory species



Appendix F4 Note on status of invertebrate species

NATIONALLY RARE

species are those falling within the Status categories defined in the *British Red Data Books* (Bratton, 1991; Shirt, 1987). These are internationally recognised species listed in the various *Red Data Books* published by, or under the auspices of, the International Union for the Conservation of Nature (IUCN). Species included may not be informally removed or transferred between categories. There are four categories as follows:

RDB 1 - "Endangered"

Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating. These include Species known from only a single locality since 1970, species restricted to habitats which are especially vulnerable species which have shown a rapid and continuous decline in the last twenty years and are now estimated to exist in five or fewer localities and species believed extinct but which would need protection if re-discovered.

RDB 2 "Vulnerable".

Taxa believed likely to move into the Endangered category in the near future if the causal factors continue operating. These include species declining throughout their range, species in vulnerable habitats and species whose populations are low.

RDB 3 "Rare".

Taxa with small populations which are not at present endangered or vulnerable but which are at risk. These are species which are estimated to occur in fifteen or fewer localities.

RDB K. "Unknown"

Taxa suspected to fall within the RDB categories but which are at present insufficiently known to enable placement.

NATIONALLY SCARCE

species are those falling within the Nationally Notable categories introduced by Ball (1986). They are species which are estimated to occur within the range of 16 to 100 ten-kilometre squares of the British National Grid system since 1970. The specific categorisations of species have been revised since their inception for a number of taxa; those revisions are taken into account in the present report.

Notable species are subdivided as follows:

Na: species estimated to occur within the range of 16 to 30 10-kilometre squares of the National Grid System.

Nb: species estimated to occur within the range 31 to 100 10-kilometre squares of the National Grid System.

NATIONALLY LOCAL

species are those which, whilst fairly common, are evidently less widespread than truly common species, but also not qualifying as Nationally Notable having been recorded from over one hundred, but less than three hundred, ten-kilometre squares of the UK National Grid.

Remaining species have either been formally declared "Common" or else are listed as "Unknown" where insufficient data is available to assign a species to any category.