

Appendix 4: Norwich City Natural Assets

Contents

1.1 Sites.....	2
1.2 Habitats.....	12
1.3 Species	18

Captions

Tables

Table 1: A summary of the number, area and % coverage of designated sites within Norwich and the number within Norwich plus 5km buffer	2
Table 2: Designated sites and their area (ha) and percentage coverage in each of the Biodiversity Character Areas.....	3
Table 3: Summary of Internationally Designated Sites in Norwich	4
Table 4: Summary of Nationally Designated Sites in Norwich	4
Table 5: Summary of Locally Designated Wildlife Sites in Norwich	6
Table 6: Summary of Locally Designated Geodiversity Sites in Norwich	7
Table 7: Habitats from the Norfolk Living Map*, their area within Norwich and percentage coverage in Norwich and Norfolk. Priority Habitats, and those habitats which may contain Priority Habitats, are highlighted in green. (* Heathland stat generated from the Living England Map as that map was more accurate for this habitat)	12
Table 8: Habitats from the Norfolk Living Map* and their area and percentage coverage in each of the Biodiversity Character Areas. Priority	

Habitats, and those habitats which may contain Priority Habitats, are highlighted in green. (* Heathland stat generated from the Living England Map as that map was more accurate for this habitat)	14
Table 9: Habitats from the Living England Habitat Map, and most comparable habitat(s) from the Norfolk Living map for comparison of extents and classification. (*Note that in the BBS, the Living England estimation of heathland is used in place of the inaccurate Norfolk Living map classification, however the statistics for lowland heathland in the Norfolk Living Map are presented here for comparison). Priority habitats are highlighted in green.....	16
Table 10: A summary of the number of records and species held on the NBIS database by taxon group, also showing the earliest recorded and most recent recorded sighting of a species within that group (these data include all subspecies, but not records only recorded to genus level or above, unless it is the only record from that genus)	18
Table 11 A summary of the number of records and species held on the NBIS database for a selection of urban species and species groups, also showing the earliest recorded and most recent recorded sighting of a species within that group.....	19

Maps

Map 2: Living England Habitat Map..... 17

Map 1: Norfolk Living Habitat Map 13

1.1 Sites

This appendix provides additional quantitative and mapped information about the sites, species and habitats that make up Norwich's natural assets.

Table 1: A summary of the number, area and % coverage of designated sites within Norwich and the number within Norwich plus 5km buffer

Site	Number intersecting Norwich City	Area of site within Norwich City (ha)	% of Norwich City area covered by site	Number intersecting Norwich plus 5km buffer
Ancient Tree Inventory (number of individual ancient trees)	23	-	-	235
Veteran Trees Database (number of veteran ancient trees)	23	-	-	304
County Wildlife Sites (CWS)	36	325.17	8.30	141
County Geodiversity Sites (CGS)	0	0	0	1
candidate County Geodiversity Sites (cCGS)	18	188.86	4.82	71
Roadside Nature Reserves (RNR)	1	0.56	0.01	4
Country Parks	1	0.02	0.00	2
Local Nature Reserves (LNR)*	12	140.20	3.58	15
Ancient Woodland Inventory (AWI)*	3	7.68	0.20	31
Sites of Special Scientific Interest (SSSI)*	5	13.67	0.35	10
Special Areas of Conservation (SAC)*	1	0.25	0.01	2
Special Protection Areas (SPA)*	0	0	0	1

Those with a * are statutory, those without are non-statutory.

Table 2: Designated sites and their area (ha) and percentage coverage in each of the Biodiversity Character Areas.

Habitat Type	River Corridors (Wensum)		River Corridors (Yare)		Heathland		Wooded Ridge		Historic Habitats		Community and Active		Green Streets (Zone A)		Green Streets (Zone B)		Green Streets (Zone C)	
	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of County Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area
County Wildlife Sites (CWS)	67.22	11.38	256.53	22.10	191.16	14.01	170.75	15.52	130.73	6.57	0.08	0.02	0.56	0.06	3.60	0.28	1.89	0.28
candidate County Geodiversity Sites (cCGS)	45.17	7.64	101.52	8.75	113.93	8.35	94.10	8.55	27.39	1.38	2.41	0.71	25.41	2.91	15.27	1.20	2.22	0.32
Roadside Nature Reserves (RNR)	0.00	0.00	0.03	0.00	0.10	0.01	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.04	0.00	0.00
Country Parks	0.00	0.00	71.94	6.20	0.00	0.00	0.00	0.00	122.63	6.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Local Nature Reserves (LNR)*	8.17	1.38	124.00	10.68	74.23	5.44	83.19	7.56	122.66	6.17	0.76	0.22	0.19	0.02	0.51	0.04	0.32	0.05
Ancient Woodland Inventory (AWI)*	0.00	0.00	0.00	0.00	0.00	0.00	21.39	1.94	11.37	0.57	0.00	0.00	0.00	0.00	0.38	0.03	0.00	0.00
Sites of Special Scientific Interest (SSSI)*	29.95	5.07	0.00	0.00	6.00	0.44	3.63	0.33	0.25	0.01	0.06	0.02	0.00	0.00	0.24	0.02	0.05	0.01
Special Areas of Conservation (SAC)*	20.22	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00

1.1.1 Designated Sites tables

Table 3: Summary of Internationally Designated Sites in Norwich

Site Name	Designation	Location	Area	Reason for Designation	Citation
River Wensum	SAC	TG022176	306.79ha	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation; White-clawed crayfish (<i>Austropotamobius pallipes</i>)	Citation

Table 4: Summary of Nationally Designated Sites in Norwich

Site Name	Designation	Location	Area	Public Access?	Citation
Catton Grove Chalk Pit	SSSI	TG228108	0.06 ha	No	Citation
Eaton Chalk Pit	SSSI	TG209064	0.16 ha	No	Citation
St James' Pit	SSSI	TG241094	3.47 ha	Yes	Citation
Sweetbriar Road Meadows	SSSI	TG208097	9.73 ha	No	Citation
River Wensum	SSSI	TG003228	385.96 ha	-	Citation
Bowthorpe Marsh	LNR	TG181085	5.85 ha	Yes	Citation
Danby Wood*	LNR	TG219056	3.88 ha	Yes	Citation
Earlham Park Woods*	LNR	TG188077	8.06 ha	Yes	Citation
Eaton Common	LNR	TG208050	5.28 ha	Yes	Citation
Lion Wood*	LNR	TG248087	8.87 ha	Yes	Citation
Marston Marshes*	LNR	TG214055	25.92 ha	Yes	Citation

Mousehold Heath	LNR	TG243102	73.99 ha	Yes	Citation
Wensum Valley (Mile Cross Marsh & Sycamore Crescent)*	LNR	TG210097	8.23 ha	Yes	Citation

* management plans for all or part of site

Table 5: Summary of Locally Designated Wildlife Sites in Norwich

Site Name	Designation	Site Number	Location	Area	Citation
Bluebell Marsh	CWS	1445	TG198065	12.7 ha	Citation
Bowthorpe Marsh+	CWS	2012	TG181085	9.2 ha	Citation
Bowthorpe Riverside (extension)	CWS	1450	TG176088	7.4 ha	Citation
Carrow Abbey Marsh	CWS	1455	TG247073	9.3 ha	Citation
County Hall Woods	CWS	2018	TG237070	2.6 ha	Citation
Danby Woods*+	CWS	2014	TG220056	3.9ha	Citation
Disused Railway Hellesdon*	CWS	1453	TG205099	5.7 ha	Citation
Earlham and Colney Marshes	CWS	1451	TG185086	16.6 ha	Citation
Earlham Cemetery	CWS	1461	TG210088	26.6 ha	Citation
Eaton Chalk Pit	CWS	2015	TG208064	2.3 ha	Citation
Eaton Common*+	CWS	1456	TG204055	6.1 ha	Citation
Eaton Island	CWS	1458	TG205055	4.1 ha	Citation
Eaton Street Meadow	CWS	1457	TG202059	1.1 ha	Citation
Fiddle Wood & Night Plantation*	CWS	1468	TG227117	1.4 ha	Citation
Hellesdon Mill Meadow	CWS	1454	TG198103	3.9 ha	Citation
Hellesdon Pastures	CWS	1465	TG203097	24.12 ha	Citation
Lion Wood, Telegraph Plant'n & Rosary Cemetery*+	CWS	1463	TG250087	16.6 ha	Citation
Marlpit Paddocks*	CWS	1452	TG199099	2.8 ha	Citation
Marston Marshes*+	CWS	1459	TG215055	28.15ha	Citation
Mile Cross Meadows*	CWS	1466	TG210099	9.1 ha	Citation
Mousehold Heath & Valley Drive*+	CWS	1469	TF244104	85.3 ha	Citation
River Yare (west and east), Bowthorpe	CWS	240	TG175084- 189083	2.8 ha	Citation
Sycamore Crescent Wood*+	CWS	2011	TG209095	1.75 ha	Citation
The Heronry & Violet Grove*+	CWS	1446	TG187077	13.74ha	Citation
Train Wood	CWS	1467	TG224096	5.1ha	Citation
Twenty Acre & Bunkers Wood*	CWS	2013	TG190091	11.69 ha	Citation
UEA Broad	CWS	1449	TG195072	7.8 ha	Citation
UEA Butterfly Meadow	CWS	1448	TG190072	3.2 ha	Citation
UEA Marsh	CWS	1447	TG188072	6.45 ha	Citation
Woodlands Park*	CWS	1464	TG209093	2.55 ha	Citation
Ipswich Road	RNR	62	TG220055	-	Citation

*management plans in place; +Part of Local Nature Reserve

Table 6: Summary of Locally Designated Geodiversity Sites in Norwich

Site Name	Designation	Site Number	Location	Area (ha)	Site Description	Geological Features
Bluebell Road Pit	cCGS	NCH04	TG1976907463	0.11	Disused quarry - Cretaceous geology	Exposure of the Cretaceous Campanian Chalk of the Pre-Weybourne subdivision.
Bracondale Pit	cCGS	NCH01	TG2392507444	1.21	Disused quarry - Cretaceous geology	Exposure of the Cretaceous Campanian Chalk of the Beeston Chalk sub-division, B.mucronata/langei Zone. Exposes 2.8m of soft white chalk with two black nodular flint courses.
Carrow Works	cCGS	NCH02	TG242075	13.55	Buried interest site - Pleistocene geology and archaeology	Former exposure of Pleistocene river terrace gravels banked up against Cretaceous Chalk cliff, yielding 5 Palaeolithic hand-axes and other flint artefacts excavated by JE Sainty 1926.
Catton Grove Chalk Pit	cCGS	NCH03	TG229109	1.41	Disused quarry - Cretaceous geology	Nationally important exposure of Upper Cretaceous Campanian (Mucronata Zone) hardground sediments of the Catton Sponge Bed (Type Site), spanning the

						Weybourne-Beeston chalk junction. Sequence capped by gravels of the Wroxham Formation. GCR SSSI.
Eaton Chalk Pit Complex	cCGS	NCH05	TG20900640	2.42	Disused quarry - Cretaceous geology	Exposure of the Cretaceous Campanian Chalk of the Pre-Weybourne and Weybourne Chalk sub-divisions, B.mucronata Zone. 13m of mostly soft, stained chalk with occasional hardgrounds, with several prominent flint bands.
Eaton Golf Course Pit	cCGS	NCH08	TG2189705829	4.16	Disused quarry - Cretaceous geology	Exposures of the Cretaceous Campanian Chalk of the Weybourne Chalk 3 subdivision, B.mucronata Zone, in two sites investigated by Wood (1988) and Pitchford (1990a). Best inland exposure of this horizon in Norfolk.
Gilman Road Chalk Pit	cCGS	NCH06	TG236105	1.6	Disused quarry - Cretaceous geology	Landscaped chalk pit now containing built development, with preserved ring-shaped lime kiln underground in gardens accessible via hatch and ladder. Formerly

						had over 9 m exposure of Cretaceous Campanian Chalk of the Beeston Chalk subdivision.
Groundsman's Pit	cCGS	NCH07	TG1910208081	0.29	Disused quarry - Cretaceous geology	Exposure of the Cretaceous Campanian Chalk of the Pre-Weybourne Chalk sub-division, B.mucronata Zone.
Lollard's Pit	cCGS	NCH09	TG2189705829	1.75	Disused quarry - Cretaceous geology	Former exposures of Cretaceous Chalk of the Mucronata Zone once yielding Mosasaur and shark fossils. Section with adits reported by N Peake at TG241087. Pits represent line of workings along river bluff.
Mousehold Heath	cCGS	NCH10	TG239104	87.51	Disused quarry complex and periglacial landform - Pleistocene geology and geomorphology	Various exposures of Pleistocene [Anglian] sands and gravels forming plateau landform, thought to be remnant of glacio-fluvial outwash plain. Notable dry valley landform 'Long Valley' present, with tributary dry valleys.
Slough Bottom	cCGS	NCH13	TG211101	3.76	Fluvial landform with buried interest	Pleistocene gravels of R. Wensum Terrace 1; findspot

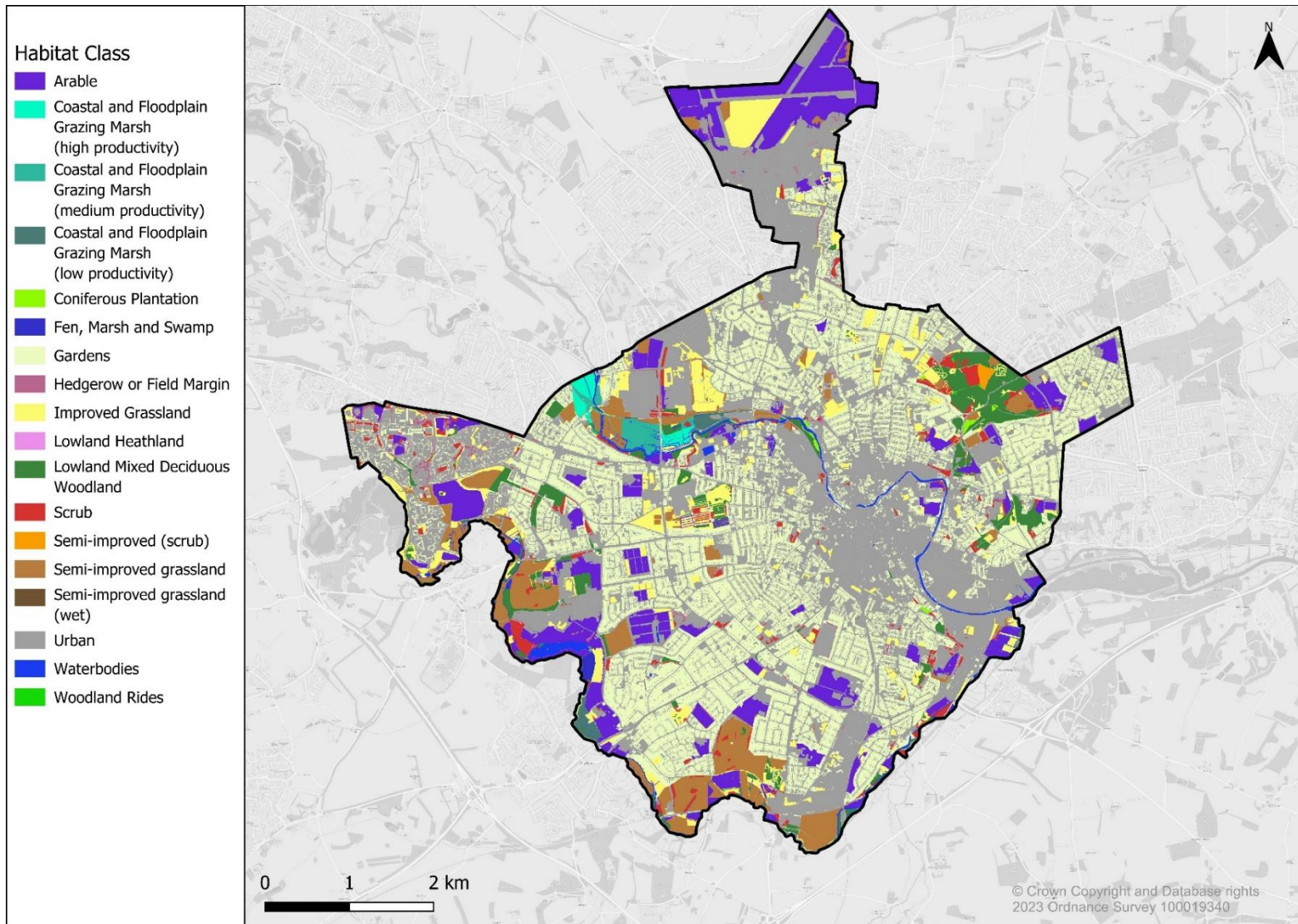
					- Pleistocene geology and archaeology	of Palaeolithic Levallois flake.
St James' Pit	cCGS	NCH12	TG242094	3.46	Disused quarry - Cretaceous and Pleistocene geology	Nationally important exposure of the Cretaceous Campanian Chalk of the Beeston Chalk sub-division, B.mucronata / langei Zone, yielding Mosasaurus fossils. Norwich Crag basement bed well displayed. GCR SSSI.
Upper Hellesdon Brick Pits	cCGS	NCH11	TG225115	31.29	Disused quarry - Pleistocene geology	Former exposure of Norwich Brickearth exploited for brick making. Sand overlying 'Norwich Brickearth' seen 1969. Brickearth worked out by 1967.
Wensum Meadows	cCGS	NCH16	TG203097	40.49	Area of natural depressions on valley floor	Cluster of ponds and wet hollows in Wensum valley floodplain [associated with chalk solution and/or periglacial thermokarst hollows along valley side]. BGS borehole record TG20NW166 at TG204097 records periglacially disturbed Chalk at 3m depth.

Whiffler Road	cCGS	NCH15	TG21201070	0.61	Disused quarry - Cretaceous geology	Exposure of the Cretaceous Campanian Chalk of the Weybourne Chalk sub-division, B.mucronata Zone. 4.5m of mrarely nodular, soft white chalk containing four nodular flint bands.
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1.2 Habitats

Table 7: Habitats from the Norfolk Living Map, their area within Norwich and percentage coverage in Norwich and Norfolk. Priority Habitats, and those habitats which may contain Priority Habitats, are highlighted in green. (* Heathland stat generated from the Living England Map as that map was more accurate for this habitat)*

Habitat Type	Area in Norwich (ha)	% of Norwich Area	% of Norfolk Area
Arable	351.89	8.99	0.07
Coastal and Floodplain Grazing Marsh (high productivity)	14.37	0.37	0.00
Coastal and Floodplain Grazing Marsh (low productivity)	12.56	0.32	0.00
Coastal and Floodplain Grazing Marsh (medium productivity)	19.66	0.50	0.00
Coniferous Plantation	4.11	0.10	0.00
Fen, Marsh and Swamp	5.74	0.15	0.00
Gardens	1211.76	30.94	0.23
Hedgerow or Field Margin	29.38	0.75	0.01
Improved Grassland	222.97	5.69	0.04
Lowland Heathland	143.04	3.67	0.03
Lowland Heathland (Scattered)	0.00	0.00	0.00
Lowland Mixed Deciduous Woodland	132.04	3.37	0.03
Scrub	73.07	1.87	0.01
Semi-improved (poor condition)	0.00	0.00	0.00
Semi-improved (scrub)	3.63	0.09	0.00
Semi-improved grassland	213.00	5.44	0.04
Semi-improved grassland (wet)	0.19	0.00	0.00
Urban	1560.98	39.86	0.30
Waterbodies	60.19	1.54	0.01
Woodland Rides	0.51	0.01	0.00



Map 1: Norfolk Living Habitat Map

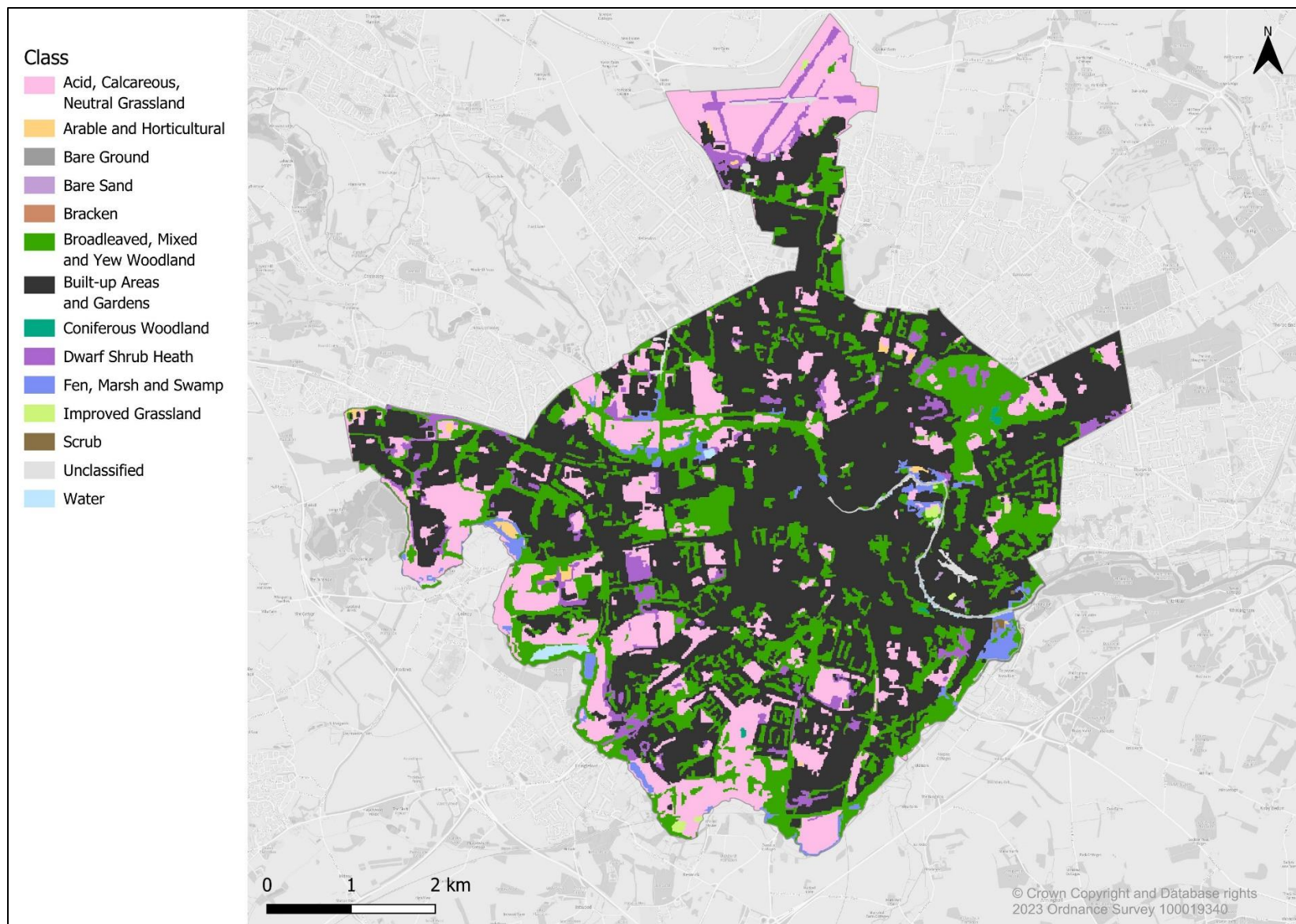
Table 8: Habitats from the Norfolk Living Map* and their area and percentage coverage in each of the Biodiversity Character Areas. Priority Habitats, and those habitats which may contain Priority Habitats, are highlighted in green. (* Heathland stat generated from the Living England Map as that map was more accurate for this habitat)

Habitat Type	River Corridors (Wensum)		River Corridors (Yare)		Heathland		Wooded Ridge		Historic Habitats		Community and Active Spaces		Green Streets (Zone A)		Green Streets (Zone B)		Green Streets (Zone C)	
	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of County Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area	Area (ha)	% of BCA Area
Arable	25.27	4.28	198.39	17.09	124.96	9.16	107.86	9.81	421.90	21.21	103.91	30.62	134.20	15.39	19.26	1.51	9.23	1.34
Coastal and Floodplain Grazing Marsh (high productivity)	21.78	3.69	13.89	1.20	2.38	0.17	0.00	0.00	9.23	0.46	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00
Coastal and Floodplain Grazing Marsh (low productivity)	5.48	0.93	29.44	2.54	2.69	0.20	0.06	0.01	6.37	0.32	0.00	0.00	1.65	0.19	0.11	0.01	0.00	0.00
Coastal and Floodplain Grazing Marsh (medium productivity)	36.05	6.10	27.84	2.40	10.16	0.74	0.36	0.03	6.40	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coniferous Plantation	1.29	0.22	5.07	0.44	55.33	4.06	46.48	4.23	5.78	0.29	0.00	0.00	0.00	0.00	0.04	0.00	0.17	0.02
Fen, Marsh and Swamp	0.91	0.15	24.36	2.10	0.00	0.00	0.17	0.02	2.76	0.14	0.22	0.06	0.30	0.03	0.00	0.00	0.35	0.05
Gardens	87.11	14.74	86.30	7.44	474.39	34.77	305.05	27.73	396.33	19.92	12.80	3.77	38.24	4.39	828.80	64.95	290.52	42.34

Hedgerow or Field Margin	0.75	0.13	8.69	0.75	5.20	0.38	7.18	0.65	25.74	1.29	5.31	1.57	11.62	1.33	3.74	0.29	5.69	0.83
Improved Grassland	32.52	5.50	117.53	10.13	84.25	6.18	53.96	4.91	117.78	5.92	59.00	17.39	51.10	5.86	34.64	2.71	9.08	1.32
Lowland Heathland	8.07	1.39	31.73	2.81	45.75	3.35	41.14	3.74	85.71	4.32	29.57	8.71	55.18	6.36	40.02	3.14	6.2	0.91
Lowland Heathland (Scattered)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lowland Mixed Deciduous Woodland	19.13	3.24	85.44	7.36	119.72	8.77	136.47	12.41	176.63	8.88	8.44	2.49	1.10	0.13	3.33	0.26	1.64	0.24
Scrub	8.70	1.47	38.13	3.28	42.76	3.13	41.49	3.77	62.48	3.14	15.36	4.53	6.88	0.79	7.35	0.58	6.57	0.96
Semi-improved (poor condition)	0	0.00	0.74	0.06	1.60	0.12	1.01	0.09	0.79	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Semi-improved (scrub)	0.89	0.15	0.12	0.01	3.51	0.26	6.99	0.64	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Semi-improved grassland	36.10	6.11	201.17	17.33	76.10	5.58	74.23	6.75	135.51	6.81	60.00	17.68	15.86	1.82	4.31	0.34	7.53	1.10
Semi-improved grassland (wet)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.15	0.01	0.01	0.00	0.04	0.01	0.00	0.00	0.04	0.00	0.12
Urban	285.05	48.24	160.09	13.79	356.58	26.13	312.27	28.39	557.45	28.02	73.44	21.64	606.16	69.53	373.97	29.31	352.06	39.86
Waterbodies	29.92	5.06	163.41	14.08	3.93	0.29	5.25	0.48	62.74	3.15	0.71	0.21	4.61	0.53	0.38	0.03	3.08	1.54
Woodland Rides	0.00	0.00	0.00	0.00	0.83	0.06	0.87	0.08	0.88	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Table 9: Habitats from the Living England Habitat Map, and most comparable habitat(s) from the Norfolk Living map for comparison of extents and classification. (*Note that in the BBS, the Living England estimation of heathland is used in place of the inaccurate Norfolk Living map classification, however the statistics for lowland heathland in the Norfolk Living Map are presented here for comparison). Priority habitats are highlighted in green.

Living England Habitat Type	Area in Norwich (ha)	% of Norwich Area	Comparable Norfolk Living Habitat Type(s)	Area in Norwich (ha)	% of Norwich Area
Arable and Horticultural	11.47	0.29	Arable	351.89	8.99
Coniferous Woodland	2.87	0.07	Coniferous Plantation	4.11	0.10
Fen Marsh and Swamp	59.34	1.52	Fen, Marsh and Swamp	5.74	0.15
Improved Grassland	7.58	0.19	Improved Grassland	222.97	5.69
Dwarf Shrub Heath	143.04	3.67	Lowland Heathland*	0.08*	<0.01*
Broadleaved Mixed and Yew Woodland	864.22	22.16	Lowland Mixed Deciduous Woodland	132.04	3.37
Scrub	1.58	0.04	Scrub	73.07	1.87
Acid Calcareous and Neutral Grassland	725.88	18.61	Semi-improved grassland	213.00	5.44
Built Up Areas and Gardens	2056.03	52.71	Urban and Gardens	2,772.74	70.8
Water	10.95	0.28	Waterbodies	60.19	1.54
Bare Sand	1.38	0.04	-	-	-
Unclassified	16.26	0.42	-	-	-



Map 2: Living England Habitat Map

1.3 Species

Table 10: A summary of the number of records and species held on the NBIS database by taxon group, also showing the earliest recorded and most recent recorded sighting of a species within that group (these data include all subspecies, but not records only recorded to genus level or above, unless it is the only record from that genus)

Taxon Group	Number of records	Number of species	Earliest record	Latest record
Birds	170,990	254	1909	2019
Moths	122,237	1,305	1809	2022
Vascular Plants & Stoneworts	11,411	1,059	1789	2022
Beetles	602	252	1877	2021
Butterflies	2,840	48	1899	2022
Fungi & Lichen	3,644	878	1923	2022
Terrestrial Mammals	4,758	42	1957	2022
True Flies	3,143	279	1954	2022
Other Invertebrates	1,269	425	1762	2022
Non-Vascular Plants	851	133	1796	2016
Bees, Wasps & Ants	2,811	209	1886	2022
Dragonflies & Damselflies	119	16	1974	2019
Fish	418	22	1966	2019
Amphibians & Reptiles	246	12	1883	2016
Marine Species	5	2	1994	2021
Other Taxa	52	27	1930	2019

Table 11 A summary of the number of records and species held on the NBIS database for a selection of urban species and species groups, also showing the earliest recorded and most recent recorded sighting of a species within that group.

Species/ species group	Number of records	Number of species	Earliest record	Latest record
Amphibians & Reptiles +	247	12	1883	2016
RSPB Birds of Parks and Gardens *	163,727	101	1909	2019
UK Bio Ind Wild Bees and Hoverflies ^	4,870	159	1960	2022
Axiophytes ^	2,509	257	1936	2022
Bats +	1,356	11	1961	2022
Hedgehog *	1,099	1	1958	2022
Water Voles +	64	1	1957	2020
Desmoulin's Whorl Snail +	0	0	No records	No records
White-clawed Crayfish +	12	1	1894	2001
Otter +	79	1	1959	2020
Badger +	9	1	1970	2017
Fox *	203	1	1963	2020
Swift *	1,348	1	1975	2019
House Sparrow *	4,808	1	1950	2019

* Species representative of the urban environment

+ Species sensitive to development impacts

^ Good indicator species in any landscape