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APPENDIX 7-5

CONFIDENTIAL SURVEY DATA



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1.

KINGFISHER

Table 7 - 5 - 1 Kingfisher Breeding Kingfisher Survey data

Ref.	Location	Date	Time	Observation	Habitat	Surveyor
KF001	██████	24/04/2023	09:31	suitable nesting bank for Kingfisher; vertical earth bank adjacent to farmland, no vegetation on bank face, slow moving section of river.	depositing/lowland rivers in improved agricultural grassland; suitable nesting bank habitat, no vegetation on bank, slow moving section of river.	TK
KF003	██████	24/04/2023	11:40	Kingfisher; suitable section of riverbank, 3 nest holes visible in bank, possibly sand martin.... kingfisher seen flying downstream.	improved agricultural grassland; suitable nest bank, holes visible in bank, could possibly be kingfisher but also sand martin...farmland immediately surrounding bank, scrub woodland on opposite bank.	TK
KF004	██████	05/05/2023	12:00	suitable nesting bank for Kingfisher;	potentially suitable spot, but not great, a patch of bank that is vertical and bare for the 1st metre above the river then vegetation above that.	SOB
KF005	██████	05/05/2023	12:25	suitable nesting bank for Kingfisher;	potentially suitable nesting bank of bare earth, about 1.5m tall no vegetation. no nest hole seen.	SOB
KF006	██████	05/05/2023	12:30	suitable nesting bank for Kingfisher;	bare earthen bank, no grass or ivy, but this bank is overhung by hazel and willow trees, good hunting spot.	SOB
KF007	██████	05/05/2023	12:40	suitable nesting bank for Kingfisher;	small spot of bare earthen bank 1.5m high, potentially suitable nesting habitat	SOB
KF008	██████	05/05/2023	12:50	suitable nesting bank for Kingfisher;	vertical mud bank wall, bottom 0.75 metre bare, top part has grass overhanging.	SOB
KF009	██████	05/05/2023	13:05	suitable nesting bank for Kingfisher;	a few patches of bare earthen banks by slower flowing water, but they all have willow trees overhanging them.	SOB
KF0010	██████	05/05/2023	13:25	suitable nesting bank for Kingfisher;	a few slightly bare earthen bank areas overhung by trees	SOB
KF0011	██████	05/05/2023	14:38	suitable nesting bank for Kingfisher;	bare patch of earthen bank, kingfisher might be able to nest in it, good perching spot nearby + slow water	SOB
KF0012	██████	05/05/2023	14:40	suitable nesting bank for Kingfisher;	steep earth wall with sally trees overhanging	SOB
KF0013	██████	05/05/2023	15:00	suitable nesting bank for Kingfisher;	high earth bank overhang by willow trees might be suitable nesting habitat	SOB
KF0014	██████	05/05/2023	15:05	suitable nesting bank for Kingfisher;	patch of bare earthen bank but with willow tree overhanging	SOB
KF0015	██████	05/05/2023	15:11	suitable nesting bank for Kingfisher;	stretch of river where there are patches over vertical muddy bank that are vegetation free and river is slow flowing, + some perches nearby	SOB
KF0016	██████	05/05/2023	15:30	suitable nesting bank for Kingfisher;	a few small patches of bare earth bank that a kingfisher might potentially use	SOB
KF0017	██████	23/05/2023	11:57	Kingfisher; flew up side stream at ██████ no breeding evidence	improved agricultural grassland; very suitable banks in field north of kingfisher transect start	AM



Ref.	Location	Date	Time	Observation	Habitat	Surveyor
KF0018	██████	23/05/2023	12:41	Kingfisher; male kingfisher perched on side of bank downstream, flew upstream calling, 2nd bird calling from riverbank below me; male past me, to probable nest by big willow	improved agricultural grassland; suitable banks, quite overgrown here so difficult to see bank below me as to suitability	AM

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Figure 7-5-1
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2.

PEREGRINE

Table 7 - 5 - 2 Peregrine Breeding Raptor Survey data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
PE003	■■■■■	07/07/2022	13:25	Peregrine Falcon	2	improved agricultural grassland and hedgerows, calling, at least 2 maybe 3 birds calling	pair; probable breeding	CB
PE004	■■■■■	07/07/2022	13:31	Peregrine Falcon	3	improved agricultural grassland and hedgerows, carrying food, mobbing, 2 peregrine carrying food for young, third mobbing and attempting to steal food	adult carrying food/faecal sac; confirmed breeding	CB
PE005	■■■■■	07/07/2022	13:34	Peregrine Falcon	1	improved agricultural grassland and hedgerows, mobbing, attacking a buzzard	agitated behaviour; probable breeding	CB
PE008	■■■■■	28/07/2022	14:17	Peregrine Falcon	2	improved agricultural grassland, circling	courtship and display; probable breeding	CB
PE011	■■■■■	18/05/2023	11:03	Peregrine Falcon	1	active quarries and mines, flying, fledgling in quarry. flew out of view at top of quarry.	fledged young; confirmed breeding	KW

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Figure 7-5-2
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3.

KESTREL

Table 7 - 5 - 3 Kestrel Breeding Raptor Survey data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K.002	██████	20/04/2022	11:05	Kestrel	2	highly modified/non-native woodland, improved grassland and hedgerows, displaying, mobbed, displaying to female, both birds mobbed by hooded crow	courtship and display; probable breeding	AR
K.005	██████	20/04/2022	11:42	Kestrel	2	highly modified/non-native woodland, displaying, male and female again definitely going to breed in this area	courtship and display; probable breeding	AR
K.018	██████	07/07/2022	14:18	Kestrel	1	conifer plantation, recently felled woodland and improved agricultural grassland, mobbing, hunting, hovering, nearby quarries	agitated behaviour; probable breeding	CB
K.022	██████	28/07/2022	13:20	Kestrel	1	improved agricultural grassland, travelling, mobbed, attacked by swallows	suitable nesting habitat; possible breeder	CB
K.031	██████	26/06/2023	14:41	Kestrel	1	treelines and improved agricultural grassland, alarm calling, mobbed by hooded crow, prey possibly stolen	agitated behaviour; probable breeding	KW
K.035	██████	07/07/2023	16:56	Kestrel	1	improved agricultural grassland, provisioning, male	adult carrying food/faecal sac; confirmed breeding	KW
K.039	██████	17/07/2023	14:13	Kestrel	1	improved agricultural grassland, hunting, female	suitable nesting habitat; possible breeder	KW
K.040	██████	17/07/2023	14:25	Kestrel	1	improved agricultural grassland, flying	suitable nesting habitat; possible breeder	KW
K.041	██████	17/07/2023	14:27	Kestrel	1	improved agricultural grassland, soaring, on same thermal as buzzard	suitable nesting habitat; possible breeder	KW
K.042	██████	17/07/2023	15:17	Kestrel	1	improved agricultural grassland, flying, female	suitable nesting habitat; possible breeder	KW
K.043	██████6	17/07/2023	15:56	Kestrel	1	improved agricultural grassland, flying, alarm calling pursuing buzzard upwards on same thermal	agitated behaviour; probable breeding	KW

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4.

BUZZARD

Table 7 - 5 - 4 Buzzard Vantage Point Survey data

Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	Band 3 (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
BZ024	█	21/02/2022	12:59	Buzzard	3	120	120	0	0	0	improved agricultural grassland; circling, chasing, pair joined 3rd buzzard, chasing off intruder to east of river	AM
BZ025	█	21/02/2022	13:05	Buzzard	1	45	45	0	0	0	improved agricultural grassland and treelines; hunting, hunting low over grassland, probably bird from buzzard chasing out	AM
BZ040	█	16/07/2022	09:45	Buzzard	1	180	100	20	60	0	improved agricultural grassland; hunting, with prey	GH
BZ041	█	16/07/2022	09:47	Buzzard	1	45	3	42	0	0	improved agricultural grassland; hunting, landed	GH
BZ043	█	16/07/2022	11:50	Buzzard	1	-	-	-	-	-	improved agricultural grassland; juvenile on nest, same bird on tree on 17th and 18th July	GH
BZ045	█	24/08/2022	10:20	Buzzard	1	-	-	-	-	-	treelines; calling, juvenile unseen, calling from this direction	KW
BZ048	█	24/08/2022	13:07	Buzzard	1	-	-	-	-	-	treelines; calling, juvenile, in oak tree(possibly)	KW
BZ050	█	24/08/2022	14:33	Buzzard	1	21	15	2	4	0	improved agricultural grassland and treelines; flying, dived from 100m to 10m + landed in treeline 150m from juvenile	KW
BZ054	█	26/08/2022	14:48	Buzzard	1	49	0	49	0	0	improved agricultural grassland; flying, juvenile buzzard circling & calling	KW
BZ055	█	26/08/2022	15:41	Buzzard	1	213	0	213	0	0	improved agricultural grassland; flying, juvenile buzzard circling & calling	KW
BZ060	█	27/08/2022	14:56	Buzzard	1	28	0	28	0	0	treelines, improved agricultural grassland and treelines; flying, juvenile buzzard circling & calling persistently	KW
BZ067	█	28/08/2022	14:38	Buzzard	1	-	-	-	-	-	treelines; calling, single juvenile	KW
BZ086	█	22/10/2022	09:59	Buzzard	1	57	0	57	0	0	improved agricultural grassland; flying, 1 calendar year juvenile	KW
BZ087	█	22/10/2022	10:54	Buzzard	1	113	0	113	0	0	improved agricultural grassland; flying, 1 calendar year juvenile	KW
BZ120	█	20/03/2023	13:14	Buzzard	1	488	0	119	369	0	improved agricultural grassland; flying, adult pair and adolescent	KW
BZ134	█	26/05/2023	15:57	Buzzard	1	75	15	30	30	0	improved agricultural grassland and treelines; flying, flew south, circled, into trees, probable nest site	AM
BZ136	█	26/05/2023	19:39	Buzzard	1	90	30	45	15	0	wet grassland and treelines; flying, circling, over probable nest site, flew south, circled then back to site	AM

Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	Band 3 (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
BZ150	■■■	17/07/2023	09:53	Buzzard	1	53	0	53	0	0	improved agricultural grassland and treelines; provisioning, carrying rat. juvenile calling frequently from nest in treeline	KW
BZ151	■■■	17/07/2023	10:43	Buzzard	1	31	31	0	0	0	improved agricultural grassland and treelines; provisioning, 2nd rat from farmyard - poison?	KW
BZ157	■■■	15/08/2023	12:01	Buzzard	1	0	0	0	0	0	treelines and treelines; calling, juvenile	KW
BZ158	■■■	15/08/2023	13:24	Buzzard	1	22	22	0	0	0	treelines and treelines; flying, short flights from adults to encourage fledgeling to fly, fledgeling calling for food	KW
BZ159	■■■	15/08/2023	13:52	Buzzard	1	14	14	0	0	0	treelines and treelines; flying	KW
BZ160	■■■	15/08/2023	14:11	Buzzard	1	18	18	0	0	0	treelines and treelines; flying, juvenile	KW
BZ167	■■■	20/09/2023	08:53	Buzzard	1	-	-	-	-	-	treelines; calling, juvenile calling	KW
BZ171	■■■	20/09/2023	12:23	Buzzard	1	88	0	88	0	0	improved agricultural grassland; hunting, juvenile	KW
BZ173	■■■	20/09/2023	12:51	Buzzard	1	26	0	26	0	0	treelines and improved agricultural grassland; flying, juvenile	KW

Table 7 - 5 - 5 Buzzard Breeding Walkover Survey data

Ref.	Date	Time	Transect	Species	Number	Habitat and activity	Surveyor
BZ011	08/05/2023	12:23	-	Buzzard	1	wet grassland and treelines; flying, alarm circling, agitated, bird out from treen on boundary, circling, calling briefly, mildly agitated, almost certainly nesting in boundary trees (agitated behaviour; probable breeding)	AM
BZ014	25/05/2023	12:25	-	Buzzard	1	wet grassland and treelines; flying, calling, agitated, bird out flying, calling, agitated (agitated behaviour; probable breeding)	AM
BZ017	16/06/2023	13:58	-	Buzzard	4	treelines and dry-humid acid grassland; flying, calling, fledged young, calling along with adults, nest in hedgerow tree (nest with young; confirmed breeding)	AM
BZ020	19/07/2023	12:23	-	Buzzard	1	wet grassland and treelines; flying, calling, juvenile calling in flight (fledged young; confirmed breeding)	AM
BZ023	26/07/2023	14:43	-	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland; circling, calling, over fields, probable juvenile begging calls (fledged young; confirmed breeding)	AM

Table 7 - 5 - 6 Buzzard Breeding Raptor Survey data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ001	██████	20/04/2022	10:52	Buzzard	1	improved grassland, hedgerows and highly modified/non-native woodland, soaring, 2 and 3 sightings, two birds came together over tall trees then drifted apart	pair; probable breeding	AR
BZ002	██████	20/04/2022	10:54	Buzzard	1	improved grassland, hedgerows and highly modified/non-native woodland, soaring	pair; probable breeding	AR
BZ004	██████	20/04/2022	11:36	Buzzard	1	improved grassland, hedgerows and highly modified/non-native woodland, soaring, same area as 2 and 3 sightings	flyover; non-breeding	AR
BZ006	██████	20/04/2022	12:04	Buzzard	2	improved grassland, hedgerows and highly modified/non-native woodland, soaring	pair; probable breeding	AR
BZ017	██████	22/04/2022	10:38	Buzzard	2	improved grassland, hedgerows and highly modified/non-native woodland, soaring, two birds together	pair; probable breeding	AR
BZ023	██████	12/05/2022	19:25	Buzzard	2	improved agricultural grassland and treelines, circling, flying, displaying	courtship and display; probable breeding	TS
BZ030	██████	28/05/2022	13:44	Buzzard	2	improved agricultural grassland and mixed broadleaved woodland, circling, flying	pair; probable breeding	TS
BZ032	██████	28/05/2022	14:28	Buzzard	2	riparian woodland, improved agricultural grassland and scrub, flying	pair; probable breeding	TS
BZ038	██████	05/07/2022	12:08	Buzzard	1	hedgerows and improved agricultural grassland, landed	probable nest site; probable breeding	CB
BZ039	██████	05/07/2022	12:10	Buzzard	2	improved agricultural grassland, soaring	pair; probable breeding	CB
BZ041	██████	05/07/2022	12:44	Buzzard	2	improved agricultural grassland, soaring, mobbed, attacked by very large group of corvids	pair; probable breeding	CB
BZ042	██████	05/07/2022	12:46	Buzzard	2	improved agricultural grassland and highly modified/non-native woodland, travelling	pair; probable breeding	CB
BZ046	██████	05/07/2022	17:10	Buzzard	2	improved agricultural grassland, soaring	pair; probable breeding	CB
BZ050	██████	06/07/2022	13:03	Buzzard	2	improved agricultural grassland and hedgerows, hunting, soaring, hovering	pair; probable breeding	CB
BZ051	██████	06/07/2022	13:30	Buzzard	1	hedgerows and improved agricultural grassland, descended, perched, preening	probable nest site; probable breeding	CB
BZ058	██████	07/07/2022	12:14	Buzzard	2	hedgerows and improved agricultural grassland, soaring, calling, nesting, landed in probable nest location in hedgerow, calling continued	probable nest site; probable breeding	CB
BZ060	██████	07/07/2022	12:53	Buzzard	2	conifer plantation, recently felled woodland and improved agricultural grassland, hunting, soaring, hovering	pair; probable breeding	CB
BZ064	██████	07/07/2022	13:51	Buzzard	2	conifer plantation, improved agricultural grassland and hedgerows, soaring	pair; probable breeding	CB
BZ069	██████	26/07/2022	11:55	Buzzard	1	improved agricultural grassland and hedgerows, agitated calling	agitated behaviour; probable breeding	CB
BZ078	██████	02/04/2023	15:18	Buzzard	2	mixed broadleaved/conifer woodland, conifer plantation and improved agricultural grassland, displaying, pair of buzzard in air together, displaying	pair; probable breeding	TK

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ081	██████	18/05/2023	12:48	Buzzard	2	improved agricultural grassland, territorial, adult male drove 2nd immature male away south	agitated behaviour; probable breeding	KW
BZ083	██████	18/05/2023	13:12	Buzzard	1	improved agricultural grassland and treelines, provisioning, adult, probable male provisioning female	suitable nesting habitat; possible breeder	KW
BZ089	██████	18/05/2023	16:35	Buzzard	1	improved agricultural grassland and hedgerows, territorial, soared with & drove off buzzard	suitable nesting habitat; possible breeder	KW
BZ090	██████	18/05/2023	16:48	Buzzard	2	hedgerows and improved agricultural grassland, territorial, resident male drove off 2nd immature male, completed territorial soaring at several locations	suitable nesting habitat; possible breeder	KW
BZ092	██████	19/05/2023	10:06	Buzzard	1	improved agricultural grassland and treelines, provisioning, dropped to line of Sitka carrying rat	suitable nesting habitat; possible breeder	KW
BZ101	██████	02/06/2023	14:01	Buzzard	1	treelines, improved agricultural grassland and treelines, flying, female, from nest, flew back after 10 minutes	occupied nest; confirmed breeding	KW
BZ102	██████	02/06/2023	15:13	Buzzard	1	improved agricultural grassland and treelines, provisioning, male provisioning	occupied nest; confirmed breeding	KW
BZ103	██████	02/06/2023	16:32	Buzzard	2	mixed broadleaved woodland, soaring	pair; probable breeding	KW
BZ110	██████	06/06/2023	08:12	Buzzard	2	improved agricultural grassland and hedgerows, flying, both birds into large ash tree, possible break from nest which farmer says is 500 - 800m northwest of here	pair; probable breeding	KW
BZ116	██████	06/06/2023	10:26	Buzzard	2	improved agricultural grassland, hunting, soaring, pair	pair; probable breeding	KW
BZ123	██████	06/06/2023	13:23	Buzzard	1	improved agricultural grassland, provisioning, towards nest behind ██████	probable nest site; probable breeding	KW
BZ124	██████	26/06/2023	11:54	Buzzard	2	improved agricultural grassland and treelines, soaring, calling	pair; probable breeding	KW
BZ126	██████	26/06/2023	13:45	Buzzard	2	treelines and improved agricultural grassland, provisioning, pair initially calling in treeline, male unseen when entering, then both birds seen soaring	pair; probable breeding	KW
BZ133	██████	12/07/2023	12:28	Buzzard	2	improved agricultural grassland, hunting	pair; probable breeding	KW
BZ134	██████	12/07/2023	13:03	Buzzard	1	treelines, calling, calling from probable nest site in treeline	probable nest site; probable breeding	KW
BZ135	██████	12/07/2023	13:11	Buzzard	1	improved agricultural grassland, provisioning	probable nest site; probable breeding	KW
BZ136	██████	12/07/2023	13:33	Buzzard	2	improved agricultural grassland, soaring, 1 bird back to treeline	pair; probable breeding	KW
BZ137	██████	12/07/2023	14:33	Buzzard	1	treelines, provisioning	probable nest site; probable breeding	KW
BZ138	██████	12/07/2023	14:51	Buzzard	2	treelines, soaring	pair; probable breeding	KW
BZ142	██████	12/07/2023	15:36	Buzzard	2	improved agricultural grassland, soaring	pair; probable breeding	KW
BZ146	██████	13/07/2023	13:04	Buzzard	1	improved agricultural grassland, calling, juvenile/fledgeling from end of line of Sitka	fledged young; confirmed breeding	KW
BZ148	██████	13/07/2023	14:14	Buzzard	1	improved agricultural grassland, calling, juvenile repeated bleating	fledged young; confirmed breeding	KW

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Figure 7-5-6
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5.

MEADOW PIPIT

Table 7 - 5 - 7 Meadow Pipit Breeding Walkover Survey data

Ref.	Date	Time	Transect	Species	Number	Habitat and activity	Surveyor
MP003	06/07/2022	12:20	-	Meadow Pipit	4	improved agricultural grassland; flying (pair; probable breeding)	GH
MP005	17/07/2022	09:58	-	Meadow Pipit	3	improved agricultural grassland; flying, recently cut field (pair; probable breeding)	GH
MP006	17/07/2022	12:00	-	Meadow Pipit	6	improved agricultural grassland; flying (pair; probable breeding)	GH
MP007	18/07/2022	06:25	-	Meadow Pipit	9	improved agricultural grassland; landed, recently cut field (pair; probable breeding)	GH

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Figure 7-5-10
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