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Surveyor Initials Key

Surveyor Initials	Surveyor Name
AMC	Alan McCarthy
JK	Jack Kennedy
TN	Tony Nagle

APPENDIX 6 -1 (SPECIES LIST)

Table 1 Golden Plover Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
GP003	09/11/2016	Site 2 VP1	Golden Plover	41	15:38:00	240		120	120				T. Nagle
GP004	09/11/2016	Site 2 VP1	Golden Plover	29	16:09:00	220		160	60				T. Nagle
GP014	03/01/2017	Site 2 VP1	Golden Plover	18	09:43:00	15		15					T. Nagle
GP029	12/03/2018	Site 2 VP1	Golden Plover	33	10:56:00	130		130			Conifer forest Flying	33 Golden Plovers flying south over site	T. Nagle
GP002	07/11/2016	Site 2 VP2	Golden Plover	16	10:47:00	200		200					T. Nagle
GP013	04/12/2016	Site 2 VP2	Golden Plover	53	11:17:00	360		90	270			53 Golden Plover flew in from N at 150-200m over site, flew S descending to 80m, turned and flew N veering E out of view.	T. Nagle
GP016	09/02/2017	Site 2 VP2	Golden Plover	16	16:03:00	20		20					T. Nagle
GP017	04/03/2017	Site 2 VP2	Golden Plover	2	12:54:00	6	6						T. Nagle
GP018	11/10/2017	Site 2 VP2	Golden Plover	28	11:46:00	90		90					T. Nagle
GP019	11/10/2017	Site 2 VP2	Golden Plover	28	15:53:00	150	120	30					T. Nagle
GP020	11/10/2017	Site 2 VP2	Golden Plover	28	16:20:00	360		360					T. Nagle
GP024	07/02/2018	Site 2 VP2	Golden Plover	150	12:27:00	150			150			150+ Golden Plover flew S, N, S along valley west of VP at 120-150m.	T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
GP025	07/02/2018	Site 2 VP2	Golden Plover	45	14:16:00	450		450				45 GP flew around a field to N of VP for several minutes at 25-35m before landing.	T. Nagle
GP026	09/03/2018	Site 2 VP2	Golden Plover	110	10:36:00	240		210	30		Improved grassland Flying around a large area	Approximately 110 Golden Plover	T. Nagle
GP027	09/03/2018	Site 2 VP2	Golden Plover	75	11:02:00	120		120			Improved grassland Flying around a large area	Approximately 75 Golden Plover	T. Nagle
GP028	09/03/2018	Site 2 VP2	Golden Plover	200	12:45:00	60		60			Improved grassland Flying around a large area	Approximately 200 Golden Plover	T. Nagle
GP030	15/03/2018	Site 2 VP2	Golden Plover	200	17:59:00	360		360			Improved grassland Flying around a large area	Approximately 200 Golden Plover	T. Nagle
GP031	06/04/2018	Site 2 VP2	Golden Plover	26	15:53	10	10						
GP001	13/10/2016	Site 3 VP1	Golden Plover	12	16:19:00	30		30					T. Nagle
GP021	27/10/2017	Site 3 VP3	Golden Plover	27	13:48:00	250		250				Local disturbance by hunter and dogs in Hr 5 and Tree-sprayers in Hr6.	T. Nagle
GP022	29/12/2017	Site 3 VP3	Golden Plover	45	12:58:00	45		45				45 Golden Plover flew W at 10-20m over heath until they flew out of view.	T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
GP023	29/12/2017	Site 3 VP3	Golden Plover	45	13:52:00	35		35				45 Golden Plover (almost certainly the same flock as above) flew W at 25-30m until out of view.	T. Nagle

Table 2 Golden Plover Waterfowl Survey Data

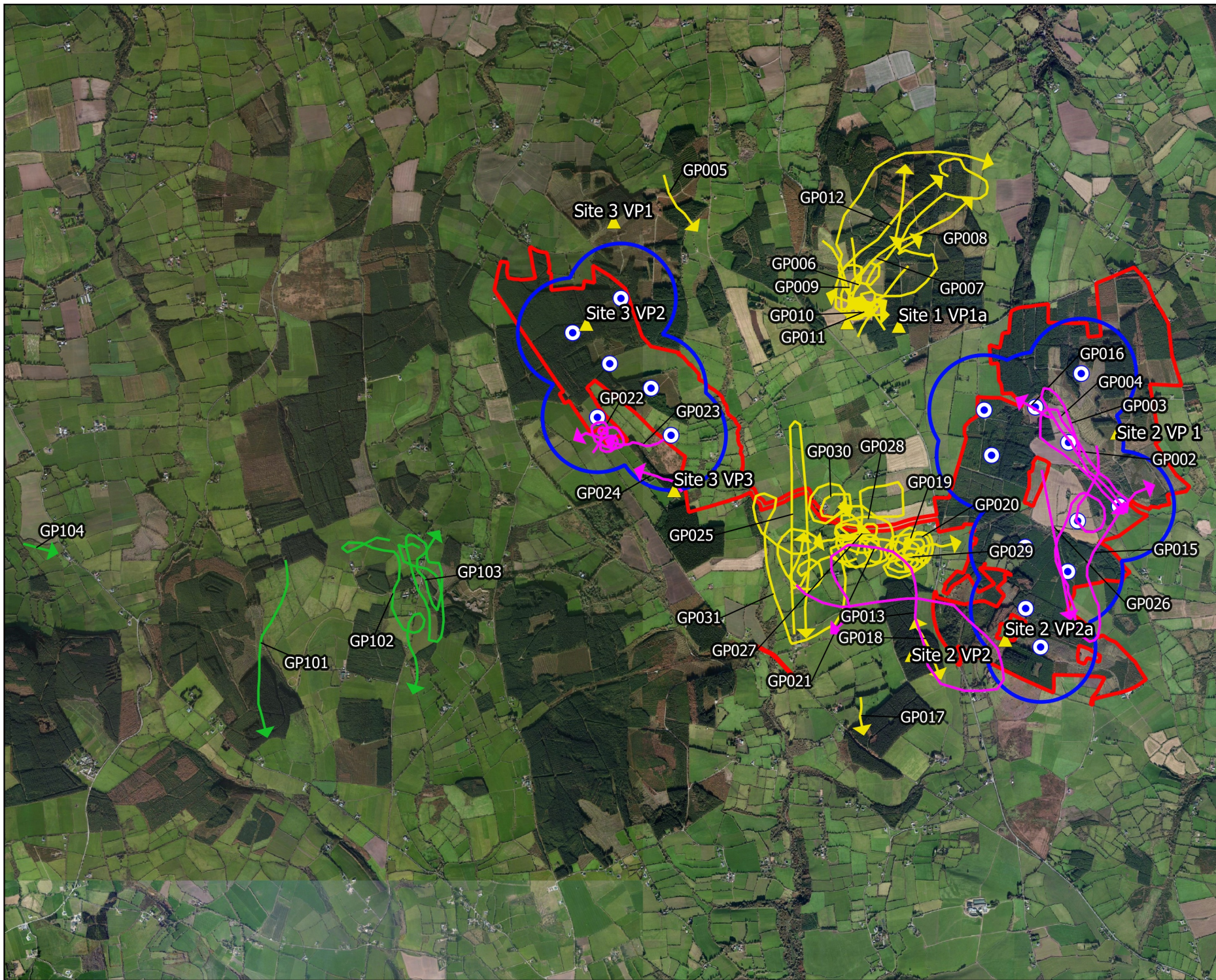
Date	Location	Species	Number of birds
02/11/2016	Newport East	Golden Plover	1429
14/12/2016	Newport East	Golden Plover	5
15/03/2017	Ferrypoint	Golden Plover	9

Table 3 Golden Plover Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Notes on habitat and activity	Surveyor
GP001	11/10/2019	CLMQ	Golden Plover	85	11:00	CW2, (Tidal rivers) Loafing	JK
GP002	11/10/2019	FXHL	Golden Plover	35	13:30	CM1, (Lower salt marsh) Feeding	JK
GP003	11/11/2019	CLMQ	Golden Plover	2500	16:50	CW2, (Tidal rivers) Flying	JK
GP004	12/11/2019	BLMC	Golden Plover	1500	14:00	CM1, (Lower salt marsh) Flying	JK
GP005	21/11/2019	BLMC	Golden Plover	6500	10:00		JK
GP006	22/11/2019	CLMQ	Golden Plover	680	09:50		JK
GP007	06/12/2019	TALL	Golden Plover	<50			JK
GP008	06/12/2019	CLMQ	Golden Plover	2100			JK
GP009	23/01/2020	BLMC	Golden Plover	170	12:10		JK
GP010	23/01/2020	CLMQ	Golden Plover	210	15:15		JK




Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Notes on habitat and activity	Surveyor
GP011	24/01/2020	CLMQ	Golden Plover	810	10:45		JK
GP012	22/02/2020	LT	Golden Plover	3500	13:50	CM1, (Lower salt marsh)	JK
GP013	24/02/2020	HT	Golden Plover	5100	08:45	CM1, (Lower salt marsh)	JK
GP014	24/02/2020	HT	Golden Plover	1000	09:15	CM1, (Lower salt marsh)	JK



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Flights Included in CRM
- Flights Not Included in CRM
- Flights from Discontinued VPs



North

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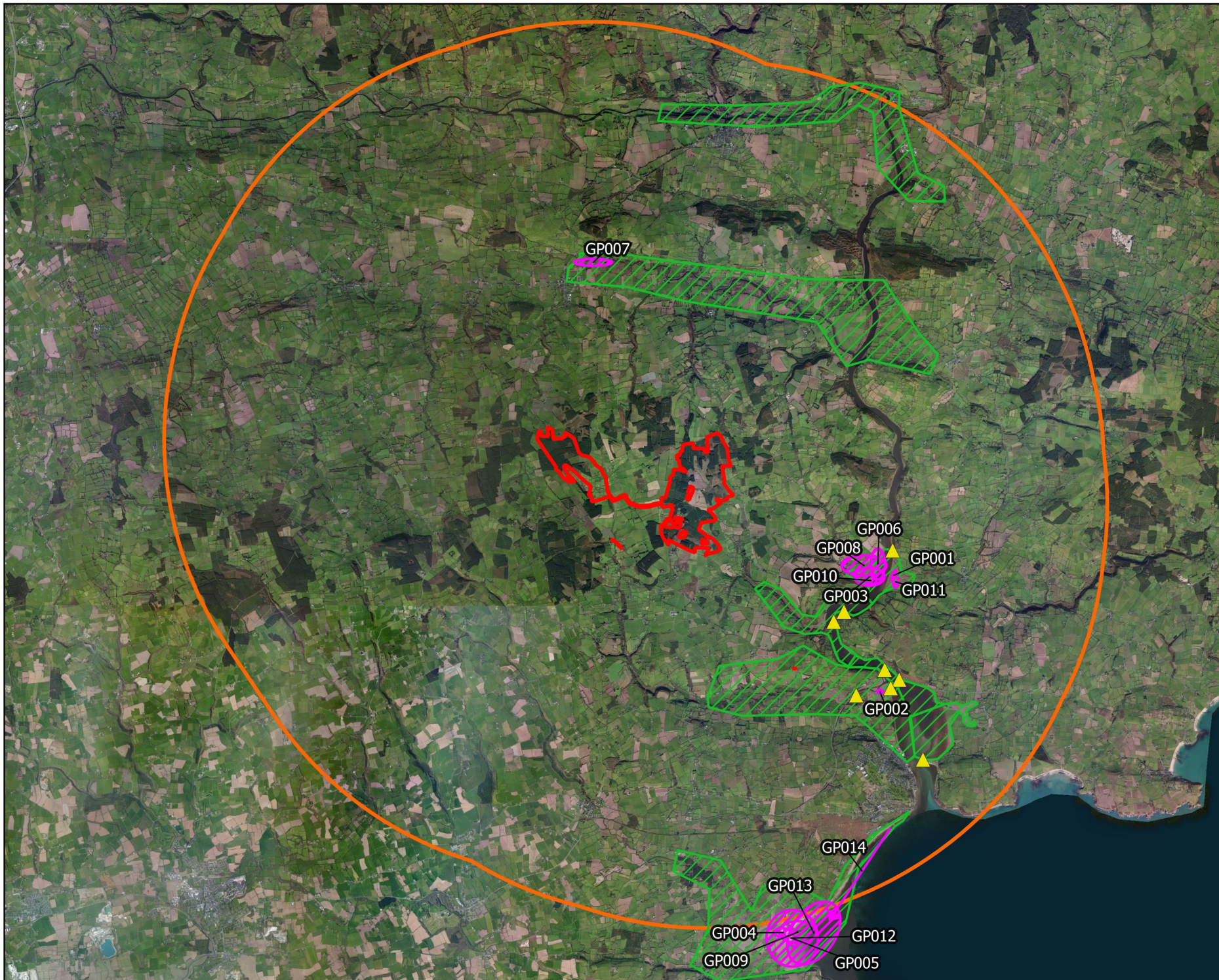
Drawing Title
Golden Plover VP Flights
(Sep 2016 - Sep 2018)

Project Title
Lyrenacarriga Windfarm

Drawn By Patrick Manley	Checked By Padraig Cregg
Project No. 170749	Drawing No. Fig. 8.1.1
Scale 1:45000	Date 18.11.2020



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Map Legend

- Proposed Development Area
- 12km Core Foraging Range of Golden Plover from the Proposed Development Area
- Golden Plover Survey Areas
- ▲ Vantage Point Locations
- Golden Plover Observations
- ➔ Golden Plover Flights



Drawing Title	
Golden Plover Survey Observations	
Project Title	
Lyrenacarriga Windfarm	
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.7.1
Scale	Date
1:160000	18.11.2020
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Table 4 Whooper Swan Core Vantage Point Survey Data

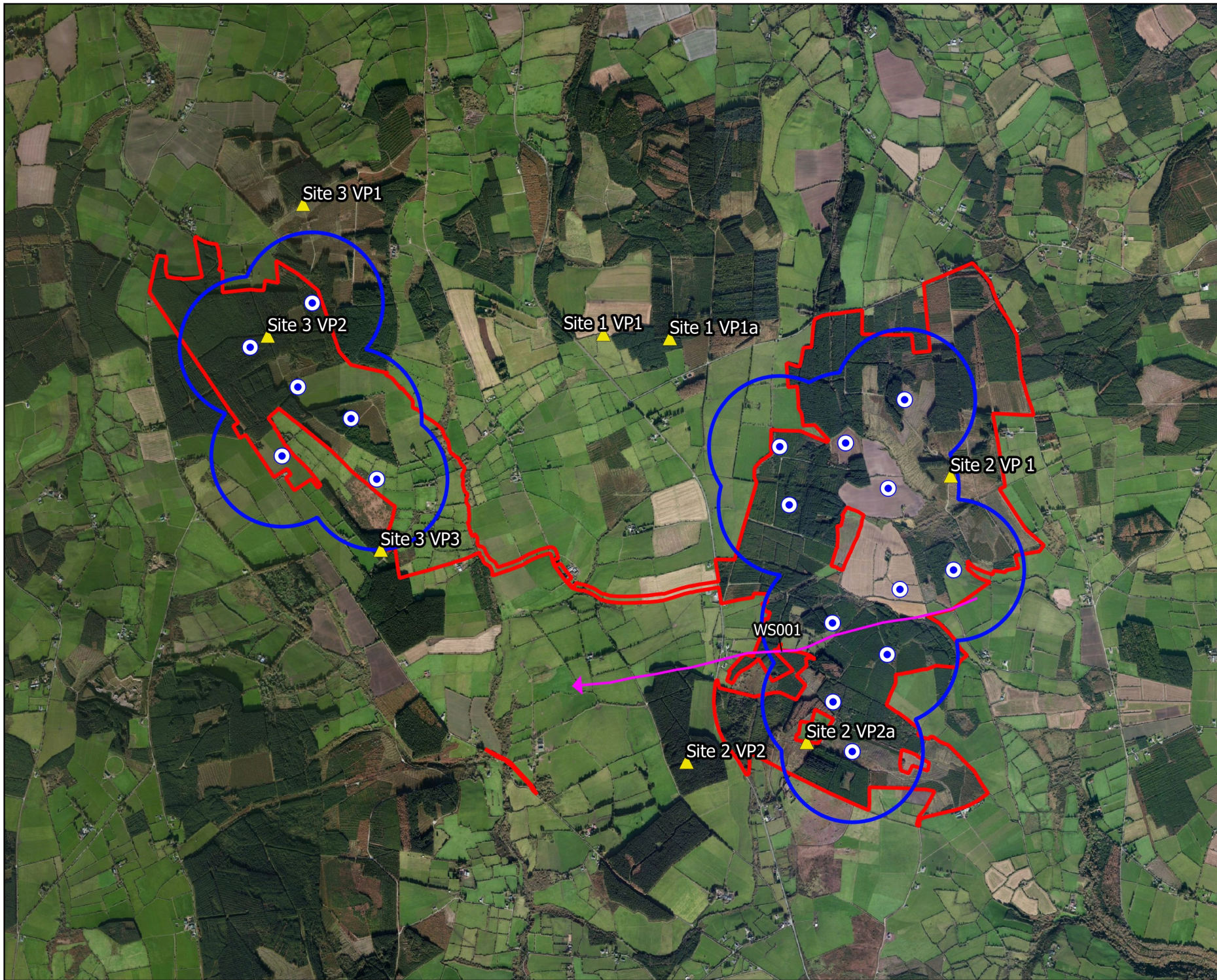
Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WS001	07/11/2016	Site 2 VP2	Whooper Swan	2	08:33:00	90			90				T. Nagle

Table 5 Whooper Swan Waterfowl Survey Data

Date	Location	Species	Number of birds
18/01/2017	Ballinvella	Whooper Swan	5
14/03/2017	Ballinvella	Whooper Swan	5
16/12/2016	Ballyderown	Whooper Swan	38
18/01/2017	Ballyderown	Whooper Swan	60
18/01/2017	Ballyduff	Whooper Swan	31
16/12/2016	Ballyneroon	Whooper Swan	80
18/01/2017	Ballyneroon	Whooper Swan	7
07/02/2017	Ballyneroon	Whooper Swan	68
02/11/2016	Camphire	Whooper Swan	174
17/01/2017	Camphire	Whooper Swan	89
07/02/2017	Camphire	Whooper Swan	9
16/12/2016	Careysville	Whooper Swan	23
18/01/2017	Careysville	Whooper Swan	48
07/02/2017	Careysville	Whooper Swan	91
16/12/2016	Kilmurry	Whooper Swan	7
07/02/2017	Kilmurry	Whooper Swan	13
16/12/2016	Tallow Bridge	Whooper Swan	20
18/01/2017	Tallow Bridge	Whooper Swan	21
07/02/2017	Tallow Bridge	Whooper Swan	22



Date	Location	Species	Number of birds
14/03/2017	Tallow Bridge	Whooper Swan	23
02/11/2016	Towers Area	Whooper Swan	44
07/02/2017	Towers Area	Whooper Swan	42
14/03/2017	Towers Area	Whooper Swan	209



- ### Map Legend
- Proposed Development Area
 - Proposed Turbine Layout
 - 500m Buffer of the Proposed Turbine Layout
 - ▲ Vantage Point Locations
 - Core VP Flights (Sites 2 & 3)



Drawing Title Whooper Swan VP Flights (Sep 2016 - Sep 2018)	
Project Title Lyrenacarriga Windfarm	
Drawn By Patrick Manley	Checked By Padraig Cregg
Project No. 170749	Drawing No. Fig. 8.1.2
Scale 1:35000	Date 18.11.2020
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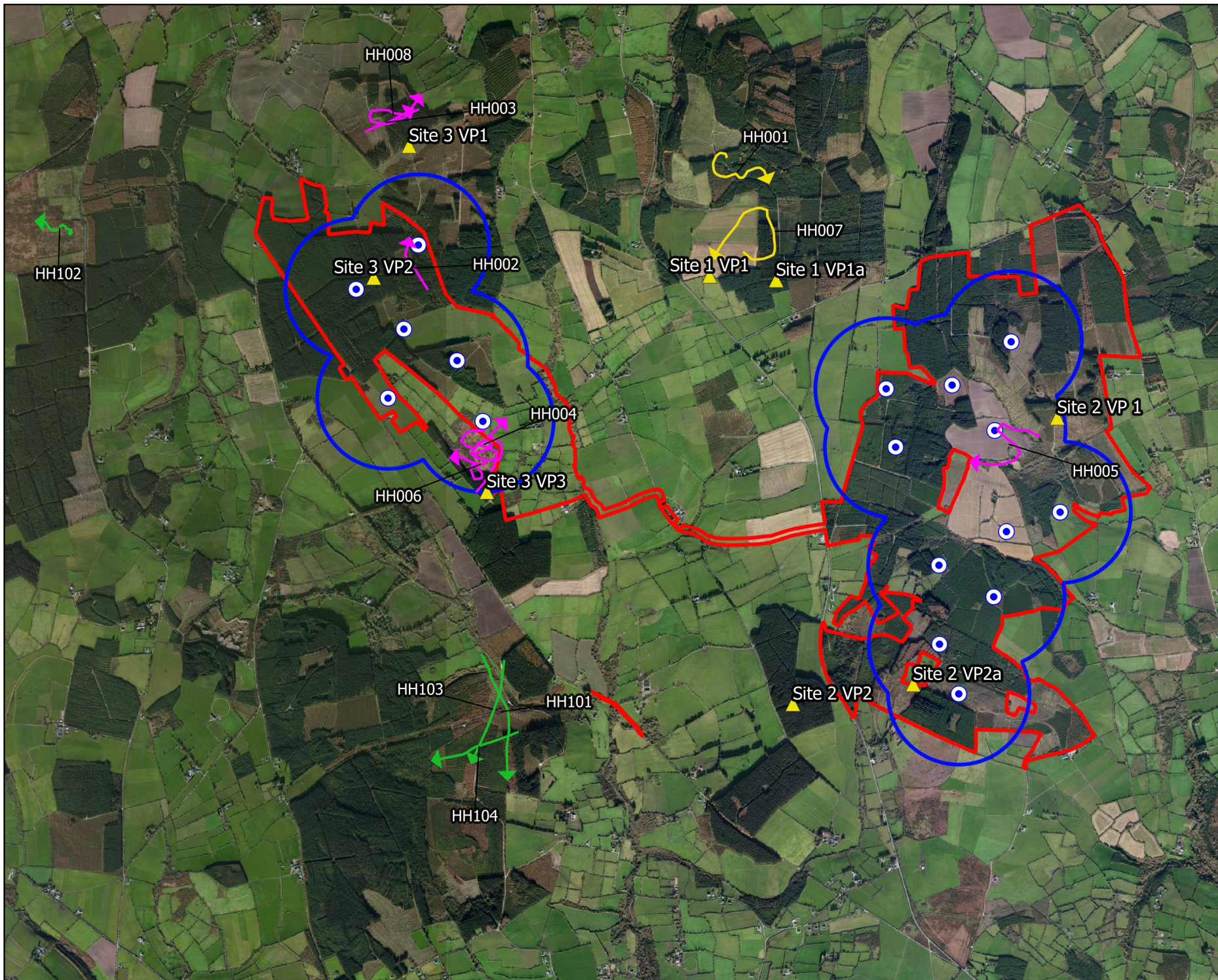
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Table 6 Hen Harrier Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
HH005	10/12/2016	Site 2 VP1	Hen Harrier	1	13:42:00	100	100				Male Hen Harrier flew over 2nd rotation and close to hedgerows before disappearing out of sight.	T. Nagle
HH003	13/10/2016	Site 3 VP1	Hen Harrier	1	16:17:00	20	20					T. Nagle
HH008	20/11/2017	Site 3 VP1	Hen Harrier	1	11:30:00	25	25				Male Hen Harrier hunting over restock at 1-3m flew NW, turned and flew E out of view.	T. Nagle
HH002	15/09/2016	Site 3 VP2	Hen Harrier	1	16:02:00	30	30				Male (probably 3rd calendar year) flew N over 2nd rotation plantation at 3-5m close to edge of mature forest at 3 to 5m height.	T. Nagle
HH004	18/11/2016	Site 3 VP3	Hen Harrier	1	16:21:00	180	180					T. Nagle
HH006	13/01/2017	Site 3 VP3	Hen Harrier	1	14:22:00	90	90				Probably the same male seen on several occasions over the winter.	T. Nagle

Table 7 Hen Harrier – Hen Harrier Roost Survey Data

Map Reference No.	Date	HHVP	Species	No. of Birds	Time of flight	Duration of flight (s)	Notes on habitat and activity	Comments	Surveyor
HH01	27/10/2017	HHVP1	Hen Harrier	1	17:28:00	90	Gorse scrub, Male Hen Harrier landed	Adult male HH arrived from north at 17:28 and flew around the hill for 90 seconds at 4-10 m before landing at W974-883 at 17:29. 50-100 Pied Wagtails flew into conifers close to VP	TN
HH02	14/01/2018	HHVP2	Hen Harrier	1	16:00:00	20	Dry Heath, Ringtail (probable juvenile)	A probable juvenile HH flew from N along edge of heath at 5-10 m flying S to E of VP before flying behind conifers and out of view.	TN



Map Legend

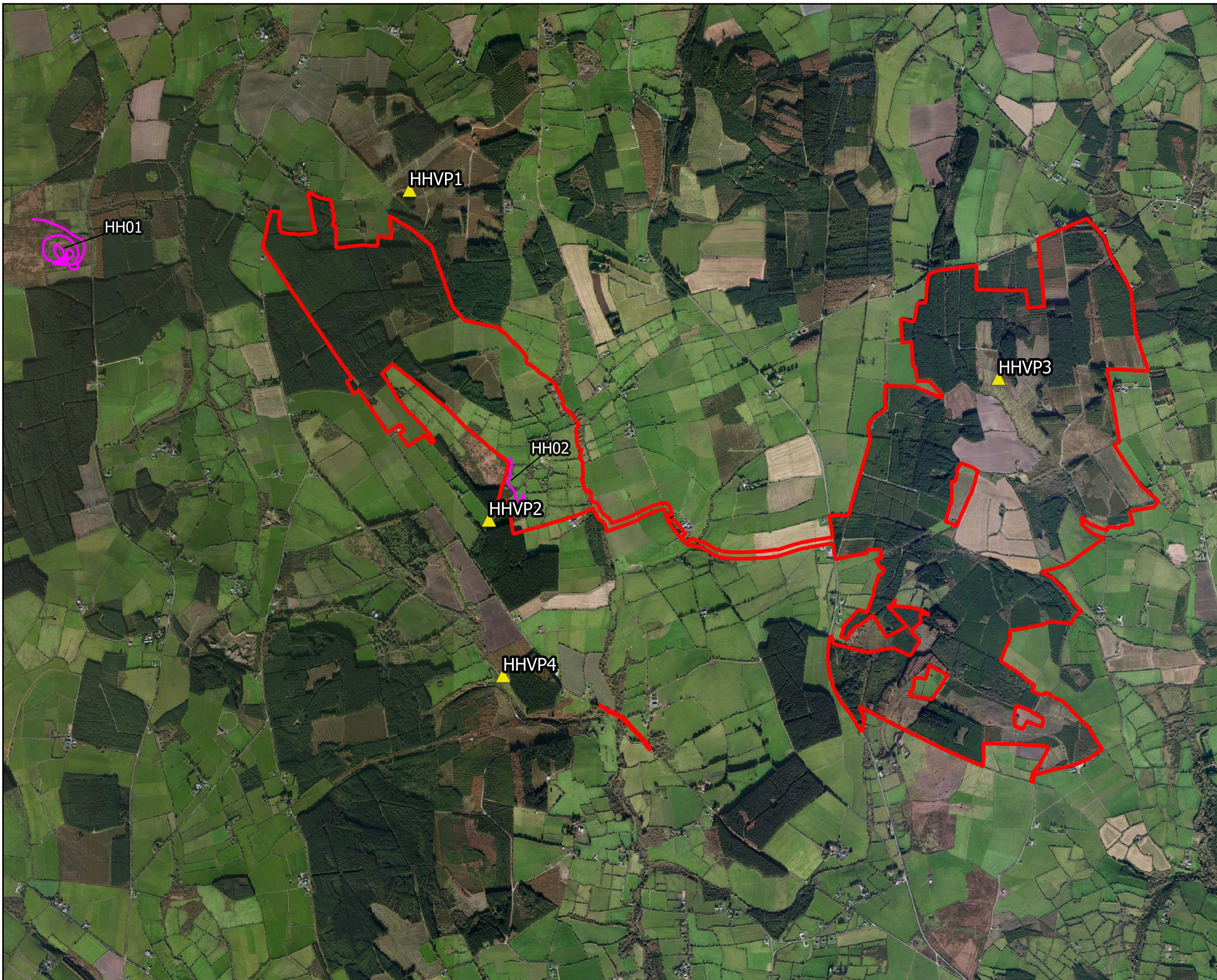
- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



Drawing Title	
Hen Harrier VP Flights (Sep 2016 - Sep 2018)	
Project Title	
Lyrenacarriga Windfarm	
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.1.3
Scale	Date
1:35000	18.11.2020

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Map Legend

- Proposed Development Area
- ▲ Hen Harrier Roost Survey Vantage Point Locations
- ↗ Hen Harrier Flights



Drawing Title

Hen Harrier Roost Survey Observations

Project Title

Lyencarriga Windfarm

Drawn By Patrick Manley	Checked By Padraig Cregg
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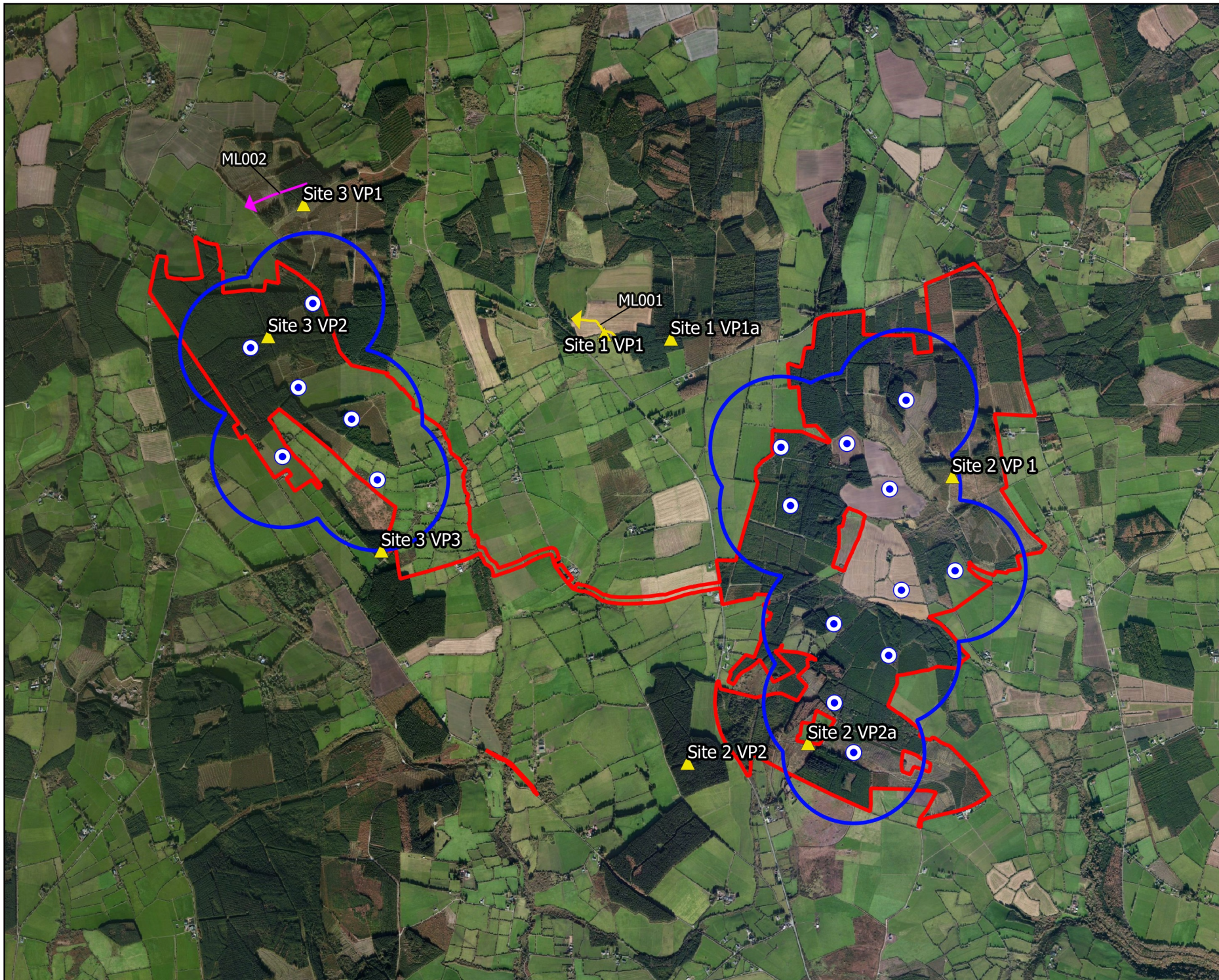
Project No. 170749	Drawing No. Fig. 8.5.1
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Table 8 Merlin Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
ML002	11/12/2017	Site 3 VP1	Merlin	1	15:12:00	8	8					T. Nagle



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights



Drawing Title

Merlin VP Flights
(Sep 2016 - Sep 2018)

Project Title

Lyrenacarriga Windfarm

Drawn By

Patrick Manley

Checked By

Padraig Cregg

Project No.

170749

Drawing No.

Fig. 8.1.4

Scale

1:35000

Date

18.11.2020



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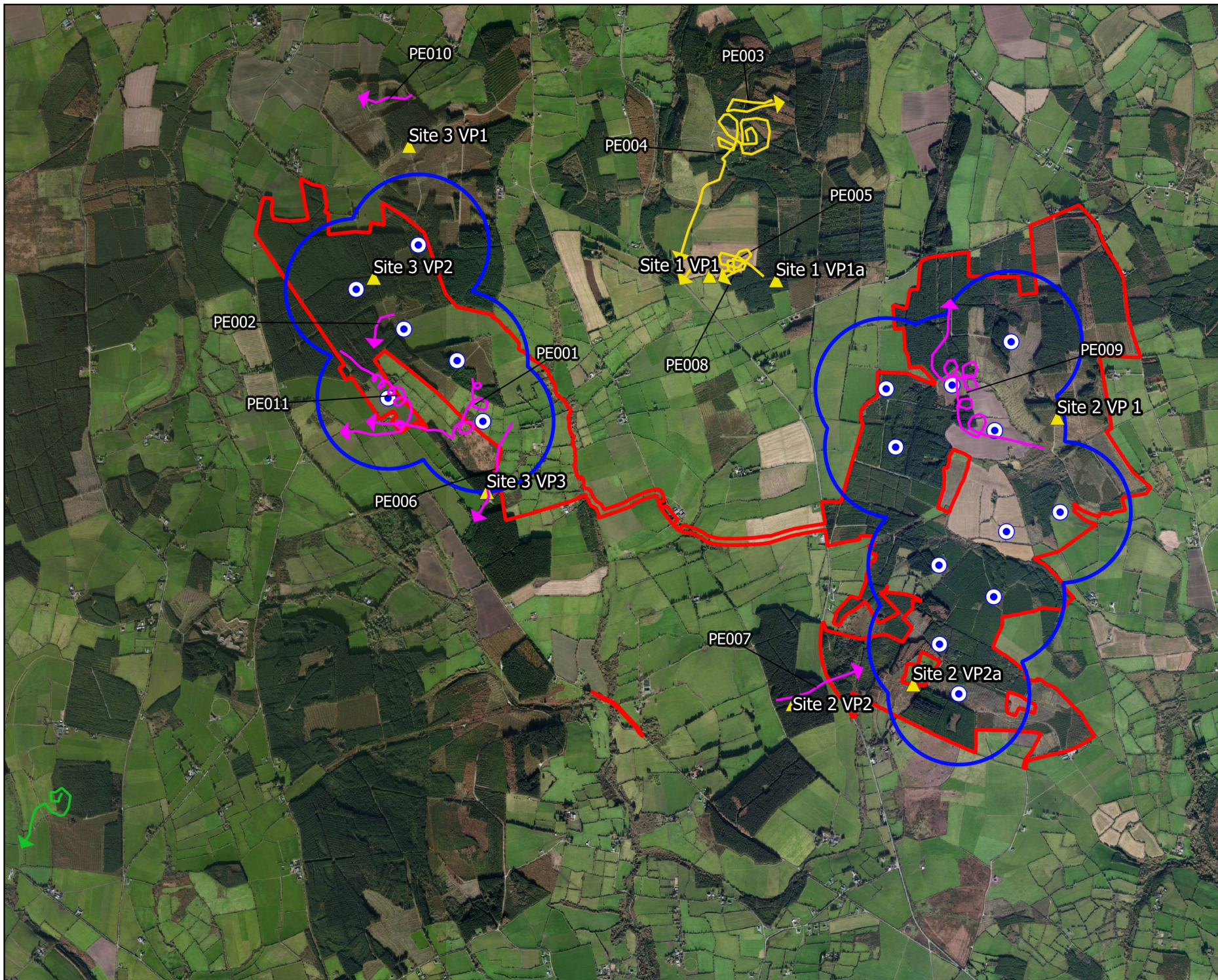
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Table 9 Peregrine Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
PE009	06/11/2017	Site 2 VP1	Peregrine	1	12:11:00	180		180				T. Nagle
PE007	18/09/2017	Site 2 VP2	Peregrine	1	10:32:00	12	12					T. Nagle
PE010	20/11/2017	Site 3 VP1	Peregrine	1	12:48:00	15	15				Immature Peregrine flew W along edge of restock at 15m and then turned NW.	T. Nagle
PE002	15/02/2017	Site 3 VP2	Peregrine	1	11:59:00	8	8					T. Nagle
PE001	11/10/2016	Site 3 VP3	Peregrine	1	15:32:00	200		200				T. Nagle
PE006	10/08/2017	Site 3 VP3	Peregrine	1	10:33:00	40		40				T. Nagle
PE011	28/09/2018	Site 3 VP3	Peregrine	1	12:10:00	45		45			Improved grassland	T. Nagle

Table 10 Peregrine Incidental Observation During Waterfowl Survey

Date	Location	Species	Number of birds
14/03/2017	Tallow Bridge	Peregrine	1



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



Drawing Title Peregrine VP Flights (Sep 2016 - Sep 2018)	
Project Title Lyrenacarriga Windfarm	
Drawn By Patrick Manley	Checked By Padraig Cregg
Project No. 170749	Drawing No. Fig. 8.1.5
Scale 1:35000	Date 18.11.2020
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Table 11 Black-headed Gull Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BH001	07/11/2016	Site 2 VP2	Black-headed Gull	3	13:33:00	120		120				T. Nagle
BH002	04/12/2016	Site 2 VP2	Black-headed Gull	1	12:05:00	15		100				T. Nagle

Table 12 Black-headed Gull Waterfowl Survey Data

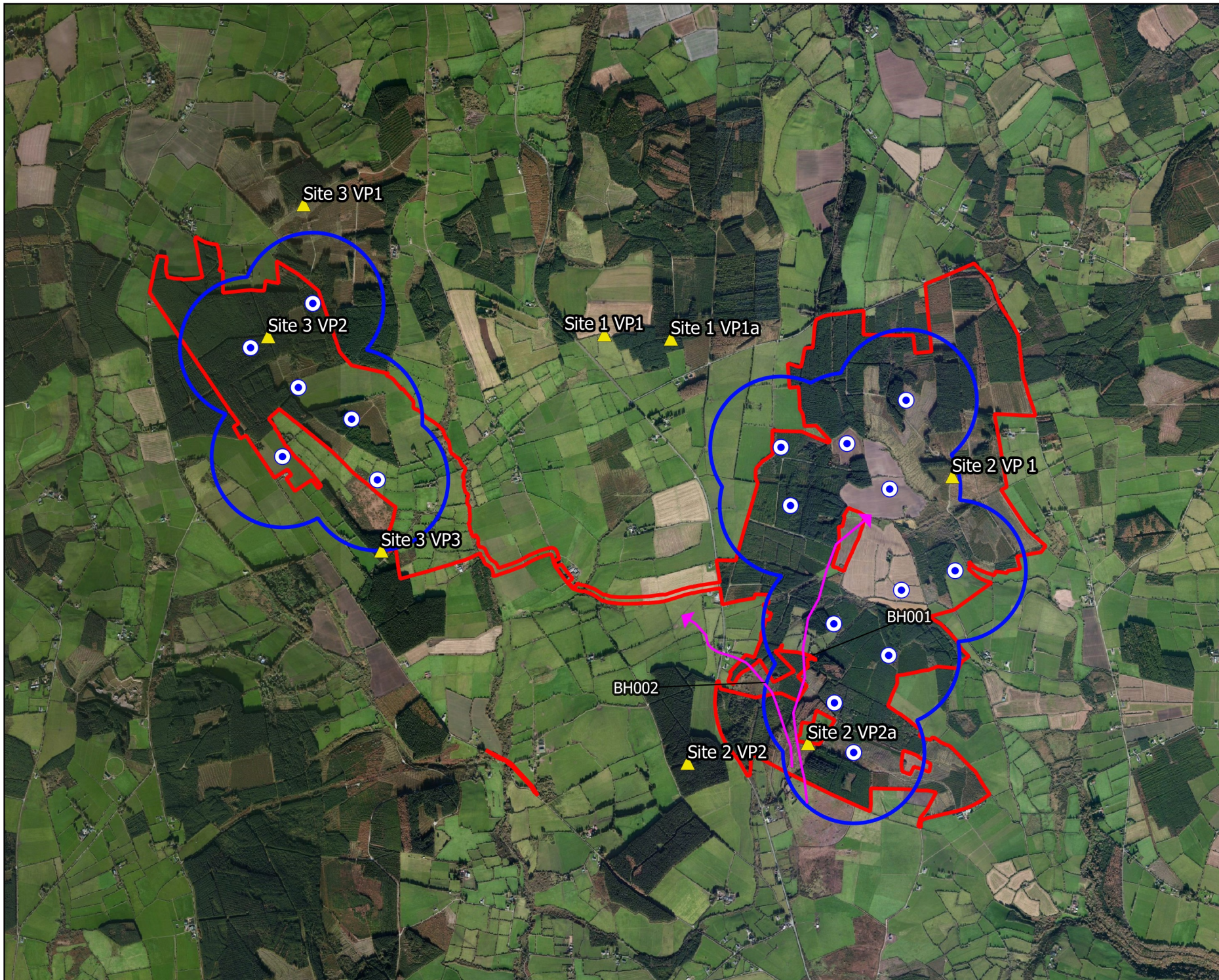
Date	Location	Species	Number of birds
07/02/2017	Ballinvella	Black-headed Gull	25
07/02/2017	Ballyderown	Black-headed Gull	150
02/11/2016	Ballyphilip East	Black-headed Gull	6
16/12/2016	Ballyphilip East	Black-headed Gull	55
17/01/2017	Ballyphilip East	Black-headed Gull	1
05/09/2016	Camphire	Black-headed Gull	2
05/10/2016	Camphire	Black-headed Gull	1
02/11/2016	Camphire	Black-headed Gull	6
16/12/2016	Camphire	Black-headed Gull	10
07/02/2017	Camphire	Black-headed Gull	6
07/09/2016	Ferrypoint	Black-headed Gull	111
06/10/2016	Ferrypoint	Black-headed Gull	55
04/11/2016	Ferrypoint	Black-headed Gull	27
17/01/2017	Ferrypoint	Black-headed Gull	141
07/09/2016	Foxhole	Black-headed Gull	1
06/10/2016	Foxhole	Black-headed Gull	34
04/11/2016	Foxhole	Black-headed Gull	1
17/01/2017	Foxhole	Black-headed Gull	2
08/02/2017	Foxhole	Black-headed Gull	2



Date	Location	Species	Number of birds
05/09/2016	Glendine Bridge	Black-headed Gull	1
05/09/2016	Kilmanicholas	Black-headed Gull	117
05/10/2016	Kilmanicholas	Black-headed Gull	1
02/11/2016	Kilmanicholas	Black-headed Gull	39
16/12/2016	Kilmanicholas	Black-headed Gull	3
17/01/2017	Kilmanicholas	Black-headed Gull	132
08/02/2017	Kilmanicholas	Black-headed Gull	1
07/09/2016	Kinsalebeg	Black-headed Gull	6
06/10/2016	Kinsalebeg	Black-headed Gull	32
04/11/2016	Kinsalebeg	Black-headed Gull	19
14/12/2016	Kinsalebeg	Black-headed Gull	157
17/01/2017	Kinsalebeg	Black-headed Gull	78
08/02/2017	Kinsalebeg	Black-headed Gull	52
05/09/2016	Lackaroe	Black-headed Gull	96
05/10/2016	Lackaroe	Black-headed Gull	9
02/11/2016	Lackaroe	Black-headed Gull	6
14/12/2016	Lackaroe	Black-headed Gull	9
17/01/2017	Lackaroe	Black-headed Gull	14
08/02/2017	Lackaroe	Black-headed Gull	8
05/09/2016	Newport East	Black-headed Gull	162
05/10/2016	Newport East	Black-headed Gull	88
02/11/2016	Newport East	Black-headed Gull	28
14/12/2016	Newport East	Black-headed Gull	8
17/01/2017	Newport East	Black-headed Gull	18
08/02/2017	Newport East	Black-headed Gull	23
15/03/2017	Newport East	Black-headed Gull	9



Date	Location	Species	Number of birds
16/12/2016	Tallow Bridge	Black-headed Gull	204
07/02/2017	Tallow Bridge	Black-headed Gull	237
07/09/2016	Tourig Estuary	Black-headed Gull	76
06/10/2016	Tourig Estuary	Black-headed Gull	111
04/11/2016	Tourig Estuary	Black-headed Gull	24
14/12/2016	Tourig Estuary	Black-headed Gull	7
17/01/2017	Tourig Estuary	Black-headed Gull	34
08/02/2017	Tourig Estuary	Black-headed Gull	120
15/03/2017	Tourig Estuary	Black-headed Gull	9
07/02/2017	Towers Area	Black-headed Gull	24



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)



Drawing Title
Black-headed Gull VP Flights
 (Sep 2016 - Sep 2018)

Project Title
Lyrenacarriga Windfarm

Drawn By Patrick Manley	Checked By Padraig Cregg
-----------------------------------	------------------------------------

Project No. 170749	Drawing No. Fig. 8.1.6
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Scale 1:35000	Date 18.11.2020
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Table 13 Woodcock – Breeding Woodcock Survey Observations

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (> 140 m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WK01	02/05/2017	Site 2	Woodcock	2	21:20:00						Pair of Birds Flew at 30-35m	X03793-87781	T. Nagle
WK03	09/05/2017	Site 3	Woodcock	1	22:18:00						Flew at 20m	XW99428-88409	T. Nagle
WK05	18/04/2018	Site 3 (W994-884)	Woodcock	1	21:06:00			*			Flew West		T. Nagle
WK06	09/05/2018	Site 2 VP1	Woodcock	1	21:28:00	12	12				Conifer forest Flew NE at 20m squeaking		T. Nagle
WK07	09/05/2018	Site 2 VP1	Woodcock	1	21:31:00	20	20				Conifer forest Flew W and then S at 20m		T. Nagle
NA	09/05/2018	Site 2 VP1	Woodcock	1	21:53:00						Conifer forest 1 croak heard but bird not seen	Heard only	T. Nagle
NA	09/05/2018	Site 2 VP1	Woodcock	1	22:01:00						Conifer forest 1 squeak heard but bird not seen	Heard only	T. Nagle
WK08	09/05/2018	Site 2 VP1	Woodcock	1	22:03:00	4	4				Conifer forest Flew NE at 20m squeaking and croaking		T. Nagle
WK09	14/05/2018	Site 2	Woodcock	2	21:29:00	30		30			Conifer forest 2 flew N & NE at 25m squeaking		T. Nagle
WK10	14/05/2018	Site 2	Woodcock	1	21:35:00	6		6			Conifer forest 1 flew S at 25m clicking		T. Nagle

Table 14 Lesser Black-backed Gull Core Vantage Point Survey Data

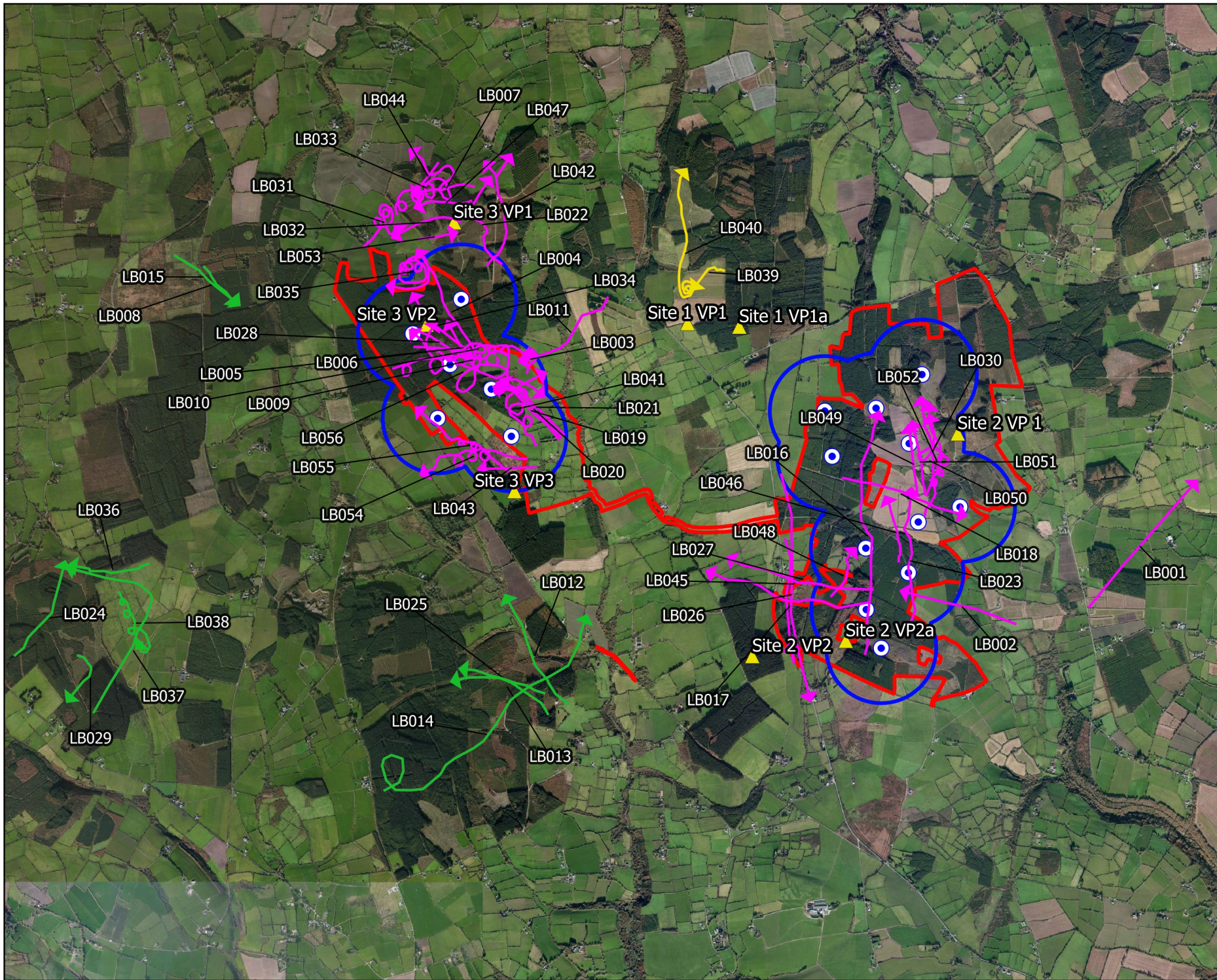
Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
LB001	13/09/2016	Site 2 VP1	Lesser Black-backed Gull	1	10:35:00	35		35			Flew NE @ 40m	T. Nagle
LB002	13/09/2016	Site 2 VP1	Lesser Black-backed Gull	1	11:57:00	225	7	18			Flew W at 30-5m	T. Nagle
LB003	15/09/2016	Site 3 VP2	Lesser Black-backed Gull	2	12:32:00	15		15			Landed in field just East of site.	T. Nagle
LB004	15/09/2016	Site 3 VP2	Lesser Black-backed Gull	37	12:49:00	150		150			Flew up from field East of site and flew N across site.	T. Nagle
LB005	16/09/2016	Site 3 VP3	Lesser Black-backed Gull	11	11:35:00	120		120			Flew up from field East of site and flew N across site.	T. Nagle
LB006	16/09/2016	Site 3 VP3	Lesser Black-backed Gull	3	11:53:00	45		45			Flew NNE	T. Nagle
LB007	23/09/2016	Site 3 VP1	Lesser Black-backed Gull	2	12:04:00	90		90			Flew W over forest	T. Nagle
LB009	11/10/2016	Site 3 VP3	Lesser Black-backed Gull	10	11:16:00	200		200				T. Nagle
LB010	11/10/2016	Site 3 VP3	Lesser Black-backed Gull	22	11:26:00	180		180				T. Nagle
LB011	10/11/2016	Site 3 VP1	Lesser Black-backed Gull	120	16:20:00	45		45				T. Nagle
LB016	04/12/2016	Site 2 VP2	Lesser Black-backed Gull	1	12:21:00	180		180				T. Nagle
LB017	04/12/2016	Site 2 VP2	Lesser Black-backed Gull	2	13:03:00	70		70				T. Nagle
LB018	10/12/2016	Site 2 VP1	Lesser Black-backed Gull	1	14:35:00	30		30				T. Nagle
LB019	24/12/2016	Site 3 VP3	Lesser Black-backed Gull	25	08:50:00	420		420				A.MC

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
LB020	24/12/2016	Site 3 VP3	Lesser Black-backed Gull	20	09:09:00	240		240				A.MC
LB021	24/12/2016	Site 3 VP3	Lesser Black-backed Gull	13	09:15:00	180		180				A.MC
LB022	09/01/2017	Site 3 VP1	Lesser Black-backed Gull	1	16:01:00	90		90				T. Nagle
LB023	04/03/2017	Site 2 VP2	Lesser Black-backed Gull	60	12:08:00	600		600				T. Nagle
LB026	10/07/2017	Site 2 VP2	Lesser Black-backed Gull	2	10:44:00	150		150				T. Nagle
LB027	10/07/2017	Site 2 VP2	Lesser Black-backed Gull	1	10:47:00	150		150				T. Nagle
LB028	15/07/2017	Site 3 VP2	Lesser Black-backed Gull	1	18:00:00	12		12			Tractors moving silage bales along forest track all day.	T. Nagle
LB030	02/08/2017	Site 2 VP1	Lesser Black-backed Gull	1	09:35:00	20		20				T. Nagle
LB031	07/08/2017	Site 3 VP1	Lesser Black-backed Gull	40	15:14:00	60		60				T. Nagle
LB032	07/08/2017	Site 3 VP1	Lesser Black-backed Gull	1	15:46:00	45		45				T. Nagle
LB033	07/08/2017	Site 3 VP1	Lesser Black-backed Gull	2	15:55:00	120		120				T. Nagle
LB034	08/08/2017	Site 3 VP2	Lesser Black-backed Gull	1	12:12:00	30		30				T. Nagle
LB035	08/08/2017	Site 3 VP2	Lesser Black-backed Gull	14	13:13:00	150		150				T. Nagle
LB041	30/09/2017	Site 3 VP3	Lesser Black-backed Gull	3	11:40:00	80		80				T. Nagle
LB042	09/10/2017	Site 3 VP1	Lesser Black-backed Gull	3	10:38:00	35		35				T. Nagle
LB043	29/12/2017	Site 3 VP3	Lesser Black-backed Gull	2	08:52:00	45	45					T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
LB044	04/01/2018	Site 3 VP1	Lesser Black-backed Gull	2	11:56:00	40	10	30				T. Nagle
LB045	15/03/2018	Site 2 VP2	Lesser Black-backed Gull	14	17:26:00	120		120			Improved grassland Flying south over improved grassland	T. Nagle
LB046	15/05/2018	Site 2 VP2	Lesser Black-backed Gull	5	17:31:00	60		60			Improved grassland Flying over forest and fields	T. Nagle
LB047	08/08/2018	Site 3 VP1	Lesser Black-backed Gull	2	14:08:00	45	45				Conifer forest	T. Nagle
LB048	27/08/2018	Site 2 VP2a	Lesser Black-backed Gull	2	10:03:00	15		15			Conifer forest	T. Nagle
LB049	07/09/2018	Site 2 VP1	Lesser Black-backed Gull	1	09:56:00	12		12			Conifer forest	T. Nagle
LB050	07/09/2018	Site 2 VP1	Lesser Black-backed Gull	2	10:05:00	15		15			Arable land + conifer forest	T. Nagle
LB051	07/09/2018	Site 2 VP1	Lesser Black-backed Gull	8	10:48:00	90		90			Conifer forest	T. Nagle
LB052	07/09/2018	Site 2 VP1	Lesser Black-backed Gull	2	10:49:00	120		120			Conifer forest	T. Nagle
LB053	10/09/2018	Site 3 VP1	Lesser Black-backed Gull	1	15:41:00	7		7			Conifer forest	T. Nagle
LB054	28/09/2018	Site 3 VP3	Lesser Black-backed Gull	1	10:57:00	120		120			Improved grassland	T. Nagle
LB055	28/09/2018	Site 3 VP3	Lesser Black-backed Gull	2	11:14:00	150		150			Improved grassland	T. Nagle
LB056	28/09/2018	Site 3 VP3	Lesser Black-backed Gull	26	13:14:00	180		180			Improved grassland	T. Nagle

Table 15 Lesser Black-backed Gull Waterfowl Survey Data

Date	Location	Species	Number of birds
05/10/2016	Ballinvella	Lesser Black-backed Gull	8
05/09/2016	Ballyphilip East	Lesser Black-backed Gull	18
14/03/2017	Ballyphilip East	Lesser Black-backed Gull	2
05/09/2016	Kilmanicholas	Lesser Black-backed Gull	6
05/10/2016	Kilmanicholas	Lesser Black-backed Gull	2
02/11/2016	Kilmanicholas	Lesser Black-backed Gull	15
07/09/2016	Kinsalebeg	Lesser Black-backed Gull	1
04/11/2016	Kinsalebeg	Lesser Black-backed Gull	4
14/12/2016	Kinsalebeg	Lesser Black-backed Gull	10
05/09/2016	Newport East	Lesser Black-backed Gull	122
05/10/2016	Newport East	Lesser Black-backed Gull	126
16/12/2016	Tallow Bridge	Lesser Black-backed Gull	39
07/02/2017	Tallow Bridge	Lesser Black-backed Gull	347
06/10/2016	Tourig Estuary	Lesser Black-backed Gull	16
14/12/2016	Tourig Estuary	Lesser Black-backed Gull	155
17/01/2017	Tourig Estuary	Lesser Black-backed Gull	9
08/02/2017	Tourig Estuary	Lesser Black-backed Gull	6
15/03/2017	Tourig Estuary	Lesser Black-backed Gull	17
07/02/2017	Towers Area	Lesser Black-backed Gull	26



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



Drawing Title
Lesser Black-backed Gull VP Flights (Sep 2016 - Sep 2018)

Project Title
Lyrencarriga Windfarm

Drawn By Patrick Manley	Checked By Padraig Cregg
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Project No. 170749	Drawing No. Fig. 8.1.7
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Scale 1:45000	Date 18.11.2020
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Table 16 Buzzard Core Vantage Point Survey Observations

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BZ004	07/10/2016	Site 2 VP2	Buzzard	1	10:51:00	5	5					T. Nagle
BZ005	07/10/2016	Site 2 VP2	Buzzard	1	11:14:00	7	7					T. Nagle
BZ006	07/10/2016	Site 2 VP2	Buzzard	2	14:10:00	420		15	405		Likely to be a pair	T. Nagle
BZ007	07/10/2016	Site 2 VP2	Buzzard		14:10:00						Flight duration likely included within obs. no. 45	T. Nagle
BZ008	07/10/2016	Site 2 VP2	Buzzard	1	15:45:00	15		15				T. Nagle
BZ016	07/11/2016	Site 2 VP2	Buzzard	1	12:02:00	180		180				T. Nagle
BZ017	09/11/2016	Site 2 VP1	Buzzard	1	15:10:00	35		35				T. Nagle
BZ018	10/11/2016	Site 3 VP1	Buzzard	3	11:51:00	600		600				T. Nagle
BZ019	10/12/2016	Site 2 VP1	Buzzard	1	09:53:00	30	5	25				T. Nagle
BZ020	10/12/2016	Site 2 VP1	Buzzard	1	13:54:00	30		25				T. Nagle
BZ021	10/12/2016	Site 2 VP1	Buzzard	1	14:12:00	10	10					T. Nagle
BZ022	24/12/2016	Site 3 VP3	Buzzard	2	14:44:00	60		60				A.MC
BZ023	05/01/2017	Site 2 VP1	Buzzard	1	10:56:00	15	15					T. Nagle
BZ024	05/01/2017	Site 2 VP1	Buzzard	1	11:51:00	20	20					T. Nagle
BZ025	09/01/2017	Site 3 VP1	Buzzard	1	13:29:00	80		80				T. Nagle
BZ026	11/02/2017	Site 2 VP1	Buzzard	1	10:40:00	3	3					T. Nagle
BZ027	15/02/2017	Site 3 VP2	Buzzard	1	12:12:00	30		30				T. Nagle
BZ037	22/02/2017	Site 3 VP1	Buzzard	1	12:11:00	12	12					T. Nagle
BZ038	22/02/2017	Site 3 VP1	Buzzard	2	15:44:00	420		420				T. Nagle
BZ039	24/02/2017	Site 3 VP3	Buzzard	2	12:21:00	12		12				T. Nagle
BZ040	04/03/2017	Site 2 VP2	Buzzard	1	11:20:00	60	25	35				T. Nagle
BZ041	04/03/2017	Site 2 VP2	Buzzard	1	11:29:00	35	28	7				T. Nagle
BZ042	04/03/2017	Site 2 VP2	Buzzard	1	11:47:00	15	15					T. Nagle
BZ043	04/03/2017	Site 2 VP2	Buzzard	1	13:56:00	7	7					T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BZ044	04/03/2017	Site 2 VP2	Buzzard	2	15:06:00	15	15					T. Nagle
BZ045	06/03/2017	Site 3 VP1	Buzzard	2	10:29:00	180		180				T. Nagle
BZ050	11/04/2017	Site 2 VP2	Buzzard	1	11:36:00	8	8					T. Nagle
BZ051	11/04/2017	Site 2 VP2	Buzzard	2	12:30:00	360	200	160				T. Nagle
BZ052	11/04/2017	Site 2 VP2	Buzzard	2	13:40:00	300		300				T. Nagle
BZ053	11/04/2017	Site 2 VP2	Buzzard	1	16:01:00	15	3	12				T. Nagle
BZ054	12/04/2017	Site 3 VP1	Buzzard	1	09:23:00	4	4					T. Nagle
BZ055	12/04/2017	Site 3 VP1	Buzzard	1	09:45:00	12		12				T. Nagle
BZ056	12/04/2017	Site 3 VP1	Buzzard	1	09:57:00	120		120				T. Nagle
BZ057	12/04/2017	Site 3 VP1	Buzzard	2	11:10:00	45	15	30				T. Nagle
BZ061	03/05/2017	Site 2 VP2	Buzzard	2	10:35:00	40	40					T. Nagle
BZ062	03/05/2017	Site 2 VP2	Buzzard	1	14:21:00	420		420				T. Nagle
BZ063	16/05/2017	Site 3 VP3	Buzzard	1	11:07:00	420	30	390				T. Nagle
BZ064	16/05/2017	Site 3 VP3	Buzzard	1	11:25:00	25	25					T. Nagle
BZ065	16/05/2017	Site 3 VP3	Buzzard	1	12:04:00	15		15				T. Nagle
BZ066	16/05/2017	Site 3 VP3	Buzzard	1	13:02:00	75	25	50				T. Nagle
BZ067	16/05/2017	Site 3 VP3	Buzzard	1	15:10:00	8	8					T. Nagle
BZ068	16/05/2017	Site 3 VP3	Buzzard	1	15:34:00	15	15					T. Nagle
BZ075	07/06/2017	Site 2 VP2	Buzzard	1	08:07:00	4	4					T. Nagle
BZ076	07/06/2017	Site 2 VP2	Buzzard	1	08:17:00	12	12					T. Nagle
BZ077	07/06/2017	Site 2 VP2	Buzzard	1	08:54:00	15	15					T. Nagle
BZ078	07/06/2017	Site 2 VP2	Buzzard	1	10:30:00	12	12					T. Nagle
BZ079	07/06/2017	Site 2 VP2	Buzzard	1	11:08:00	140		140				T. Nagle
BZ080	08/06/2017	Site 2 VP1	Buzzard	1	12:48:00	15		15				T. Nagle
BZ081	08/06/2017	Site 2 VP1	Buzzard	1	13:06:00	5	5					T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BZ082	09/06/2017	Site 3 VP1	Buzzard	1	10:24:00	120		120				T. Nagle
BZ083	09/06/2017	Site 3 VP1	Buzzard	1	14:13:00	180		180				T. Nagle
BZ085	08/07/2017	Site 2 VP1	Buzzard	1	13:10:00	20		20				T. Nagle
BZ086	10/07/2017	Site 2 VP2	Buzzard	1	10:47:00	8	8					T. Nagle
BZ087	10/07/2017	Site 2 VP2	Buzzard	1	11:08:00	60	60					T. Nagle
BZ088	10/07/2017	Site 2 VP2	Buzzard	2	12:57:00	480	20	460				T. Nagle
BZ089	10/07/2017	Site 2 VP2	Buzzard	1	13:28:00	7	7					T. Nagle
BZ094	03/08/2017	Site 2 VP2	Buzzard	1	14:19:00	90	60	30				T. Nagle
BZ095	03/08/2017	Site 2 VP2	Buzzard	1	17:25:00	12	12					T. Nagle
BZ096	07/08/2017	Site 3 VP1	Buzzard	1	11:30:00	55	55					T. Nagle
BZ097	07/08/2017	Site 3 VP1	Buzzard	1	11:31:00	40	40					T. Nagle
BZ098	10/08/2017	Site 3 VP3	Buzzard	1	09:34:00	150		150				T. Nagle
BZ099	10/08/2017	Site 3 VP3	Buzzard	1	10:34:00	35		35				T. Nagle
BZ100	10/08/2017	Site 3 VP3	Buzzard	1	11:09:00	10	10					T. Nagle
BZ101	18/09/2017	Site 2 VP2	Buzzard	1	12:53:00	420		210	210			T. Nagle
BZ102	18/09/2017	Site 2 VP2	Buzzard	1	12:53:00	70		70				T. Nagle
BZ103	18/09/2017	Site 2 VP2	Buzzard	3	14:25:00	180		180	180			T. Nagle
BZ104	24/09/2017	Site 3 VP1	Buzzard	2	13:27:00	360	30	330				T. Nagle
BZ105	25/09/2017	Site 2 VP1	Buzzard	2	12:15:00	15	15					T. Nagle
BZ106	25/09/2017	Site 2 VP1	Buzzard	1	13:14:00	25		25				T. Nagle
BZ107	25/09/2017	Site 2 VP1	Buzzard	1	13:38:00	90		90				T. Nagle
BZ108	25/09/2017	Site 2 VP1	Buzzard	1	13:45:00	930		930				T. Nagle
BZ109	25/09/2017	Site 2 VP1	Buzzard	1	13:46:00	45		45				T. Nagle
BZ111	04/10/2017	Site 2 VP1	Buzzard	1	11:10:00	7		7				T. Nagle
BZ112	17/10/2017	Site 3 VP2	Buzzard	1	12:51:00	120		120				T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BZ113	06/11/2017	Site 2 VP1	Buzzard	1	10:45:00	20		20				T. Nagle
BZ114	06/11/2017	Site 2 VP1	Buzzard	1	13:50:00	15		15				T. Nagle
BZ117	01/12/2017	Site 2 VP1	Buzzard	1	15:25:00	8		8			Glare to west in last 2 hours.	T. Nagle
BZ120	11/12/2017	Site 3 VP1	Buzzard	1	11:46:00	150		150				T. Nagle
BZ121	03/01/2018	Site 2 VP2	Buzzard	1	11:05:00	90		90				T. Nagle
BZ122	04/01/2018	Site 3 VP1	Buzzard	1	13:19:00	10	10					T. Nagle
BZ123	05/01/2018	Site 3 VP2	Buzzard	1	14:32:00	8	8					T. Nagle
BZ124	17/01/2018	Site 2 VP1	Buzzard	1	12:12:00	30		30				T. Nagle
BZ125	17/01/2018	Site 2 VP1	Buzzard	2	13:50:00	90		90				T. Nagle
BZ127	07/02/2018	Site 2 VP2	Buzzard	1	11:13:00	12	12					T. Nagle
BZ128	09/02/2018	Site 3 VP1	Buzzard	1	11:43:00	35	35					T. Nagle
BZ129	09/02/2018	Site 3 VP1	Buzzard	1	13:36:00	30		30				T. Nagle
BZ130	09/02/2018	Site 3 VP1	Buzzard	3	15:23:00	400	30	210			Conifer Forest 3 Buzzards flying and chasing each other.	T. Nagle
BZ131	19/02/2018	Site 3 VP2	Buzzard	3	13:14:00	300		300			Conifer forest Flying; Territorial dispute	T. Nagle
BZ132	09/03/2018	Site 2 VP2	Buzzard	1	10:40:00	90		90			Restock (pre-thicket) Flying	T. Nagle
BZ133	09/03/2018	Site 2 VP2	Buzzard	3	11:28:00	120		120			Restock (pre-thicket) Resident pair seeing off an intruding Buzzard	T. Nagle
BZ134	12/03/2018	Site 2 VP1	Buzzard	3	12:46:00	150		150			Conifer forest. Resident pair seeing off an intruder. Soaring and flying	T. Nagle
BZ135	12/03/2018	Site 2 VP1	Buzzard	1	13:46:00	45	20	25			Conifer forest Flying	T. Nagle
BZ136	15/03/2018	Site 2 VP2	Buzzard	1	17:49:00	10	10				Restock (pre-thicket) Flying from tree to tree	T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BZ137	15/03/2018	Site 2 VP2	Buzzard	2	18:17:00	120		120			Conifer forest Pair flying together	T. Nagle
BZ139	20/03/2018	Site 3 VP2	Buzzard	1	15:34:00	15		15			Conifer forest Flying over forest	T. Nagle
BZ140	30/03/2018	Site 3 VP3	Buzzard	1	15:44	7	7				Improved grassland Flying low along hedge	T. Nagle
BZ141	03/04/2018	Site 2 VP1	Buzzard	1	10:25	25	25					
BZ142	03/04/2018	Site 2 VP1	Buzzard	1	11:09	15		15				
BZ143	03/04/2018	Site 2 VP1	Buzzard	1	12:08	35		35				
BZ144	03/04/2018	Site 2 VP1	Buzzard	1	14:47	150		150				
BZ145	06/04/2018	Site 2 VP2	Buzzard	1	13:17	70	70					
BZ146	18/04/2018	Site 3 VP3	Buzzard	1	16:37	120	25	95				
BZ148	04/05/2018	Site 3 VP1	Buzzard	1	14:22:00	90		90			Conifer forest Flew south mobbed by 2 Hooded Crows	T. Nagle
BZ149	04/05/2018	Site 3 VP1	Buzzard	1	14:45:00	150		150			Conifer forest Flying and circling	T. Nagle
BZ150	05/05/2018	Site 3 VP2	Buzzard	1	14:24:00	3	3				Conifer forest Flew low across track	T. Nagle
BZ151	09/05/2018	Site 2 VP1	Buzzard	1	16:30:00	150		150			Conifer forest Flying over restock	T. Nagle
BZ152	09/05/2018	Site 2 VP1	Buzzard	1	16:36:00	240		240			Conifer forest Flying over restock	T. Nagle
BZ153	15/05/2018	Site 2 VP2	Buzzard	1	14:23:00	10		10			Conifer forest Flying over forest	T. Nagle
BZ155	03/06/2018	Site 2 VP1	Buzzard	1	12:33:00	120		120			Conifer forest Flew W at 60m	T. Nagle
BZ156	03/06/2018	Site 2 VP1	Buzzard	1	16:53:00	20		20			Conifer forest Flew SW at 20m	T. Nagle
BZ157	06/06/2018	Site 3 VP1	Buzzard	1	16:39:00	210	30	180			Conifer forest Circled NE at up to 70m	T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
BZ158	27/06/2018	Site 3 VP3	Buzzard	1	15:05:00	90		90			Conifer forest	T. Nagle
BZ159	27/06/2018	Site 3 VP3	Buzzard	1	16:25:00	135		135			Conifer forest	T. Nagle
BZ161	11/07/2018	Site 2 VP1	Buzzard	1	08:49:00	7					Conifer forest	T. Nagle
BZ162	11/07/2018	Site 2 VP1	Buzzard	2	10:49:00	40					Conifer forest 2 BZ juvs flying around probable nest, calling	T. Nagle
BZ163	11/07/2018	Site 2 VP1	Buzzard	1	11:37:00	10					Conifer forest	T. Nagle
BZ164	11/07/2018	Site 2 VP1	Buzzard	1	11:48:00	35					Conifer forest	T. Nagle
BZ165	11/07/2018	Site 2 VP2	Buzzard	1	16:08:00	480		480			Conifer forest	
BZ166	16/07/2018	Site 3 VP2	Buzzard	1	17:36:00	540		540			Conifer forest	T. Nagle
BZ167	17/07/2018	Site 2 VP2	Buzzard	1	15:40:00	150		150			Conifer forest	T. Nagle
BZ168	30/07/2018	Site 3 VP3	Buzzard	1	13:37:00	15					Conifer forest	T. Nagle
BZ171	14/08/2018	Site 3 VP2	Buzzard	1	09:08:00	10	10				Conifer forest	T. Nagle
BZ172	27/08/2018	Site 2 VP2a	Buzzard	1	13:30:00	7	7				Conifer forest	T. Nagle
BZ173	27/08/2018	Site 2 VP2a	Buzzard	1	13:36:00	180		180			Conifer forest	T. Nagle
BZ174	30/08/2018	Site 3 VP3	Buzzard	1	13:16:00	210		210			Conifer forest	T. Nagle
BZ176	07/09/2018	Site 2 VP1	Buzzard	2	13:08:00	90		90			Arable land + conifer forest	T. Nagle
BZ177	07/09/2018	Site 2 VP1	Buzzard	1	15:18:00	25		25			Conifer forest	T. Nagle
BZ178	10/09/2018	Site 3 VP1	Buzzard	1	13:44:00	70		70			Conifer forest	T. Nagle

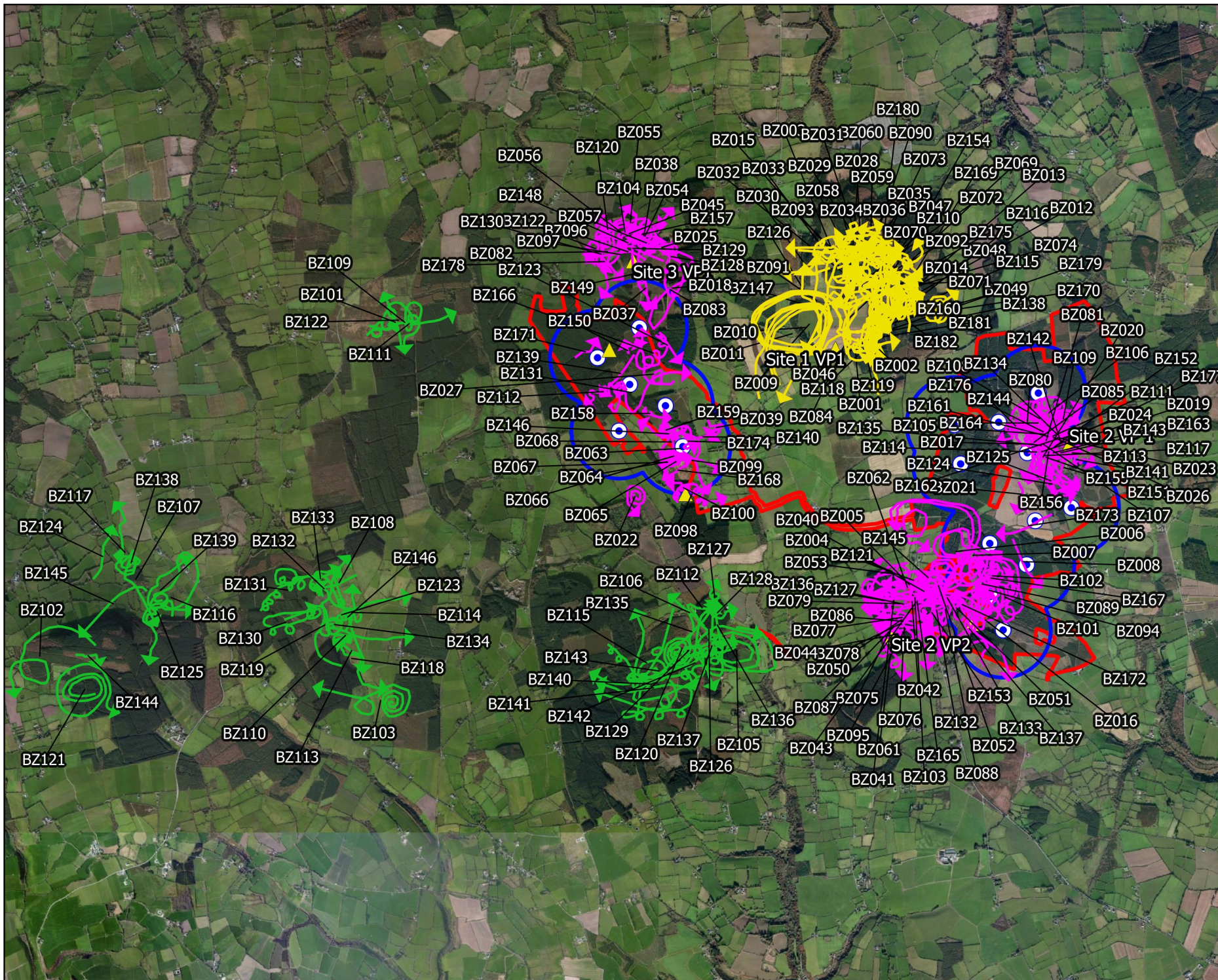
Table 17 Buzzard Breeding Raptor Survey Data

Map Ref.	Date	VP	Species	No. of Birds	Notes on habitat and activity	Comments	Surveyor
X039-875	23/04/2018	RVP2	Buzzard	2	2 Buzzards flew south at 25-30m over pre-thicket and forest seen for 75 seconds and 25 seconds		TN



Table 18 Buzzard Incidental Waterfowl Survey Observations

Date	Location	Species	Number of birds
02/11/2016	Camphire	Buzzard	1
04/11/2016	Kinsalebeg	Buzzard	2
15/03/2017	Lackaroe	Buzzard	1
16/12/2016	Tallow Bridge	Buzzard	2
04/11/2016	Tourig Estuary	Buzzard	1
16/12/2016	Towers Area	Buzzard	1



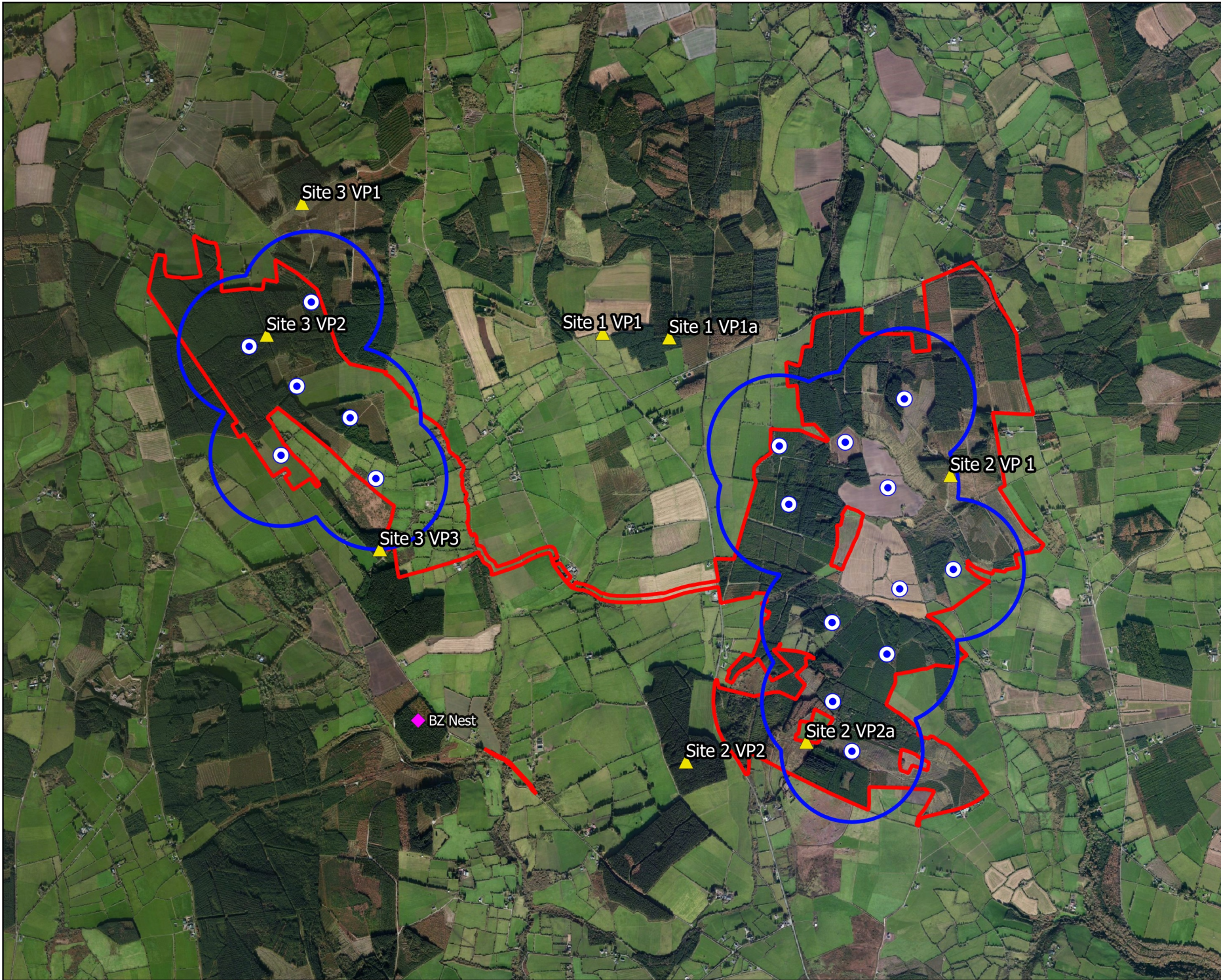
Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



Drawing Title	
Buzzard VP Flights (Sep 2016 - Sep 2018)	
Project Title	
Lyrenacarriga Windfarm	
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.1.8
Scale	Date
1:52000	18.11.2020
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@mkofireland.ie Website: www.mkofireland.ie	

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Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- ◆ Buzzard Nest Location



Drawing Title	
Buzzard Nest Location	
Project Title	
Lyrenacarriga Windfarm	
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.18.1
Scale	Date
1:35000	18.11.2020
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@mkofireland.ie Website: www.mkofireland.ie	

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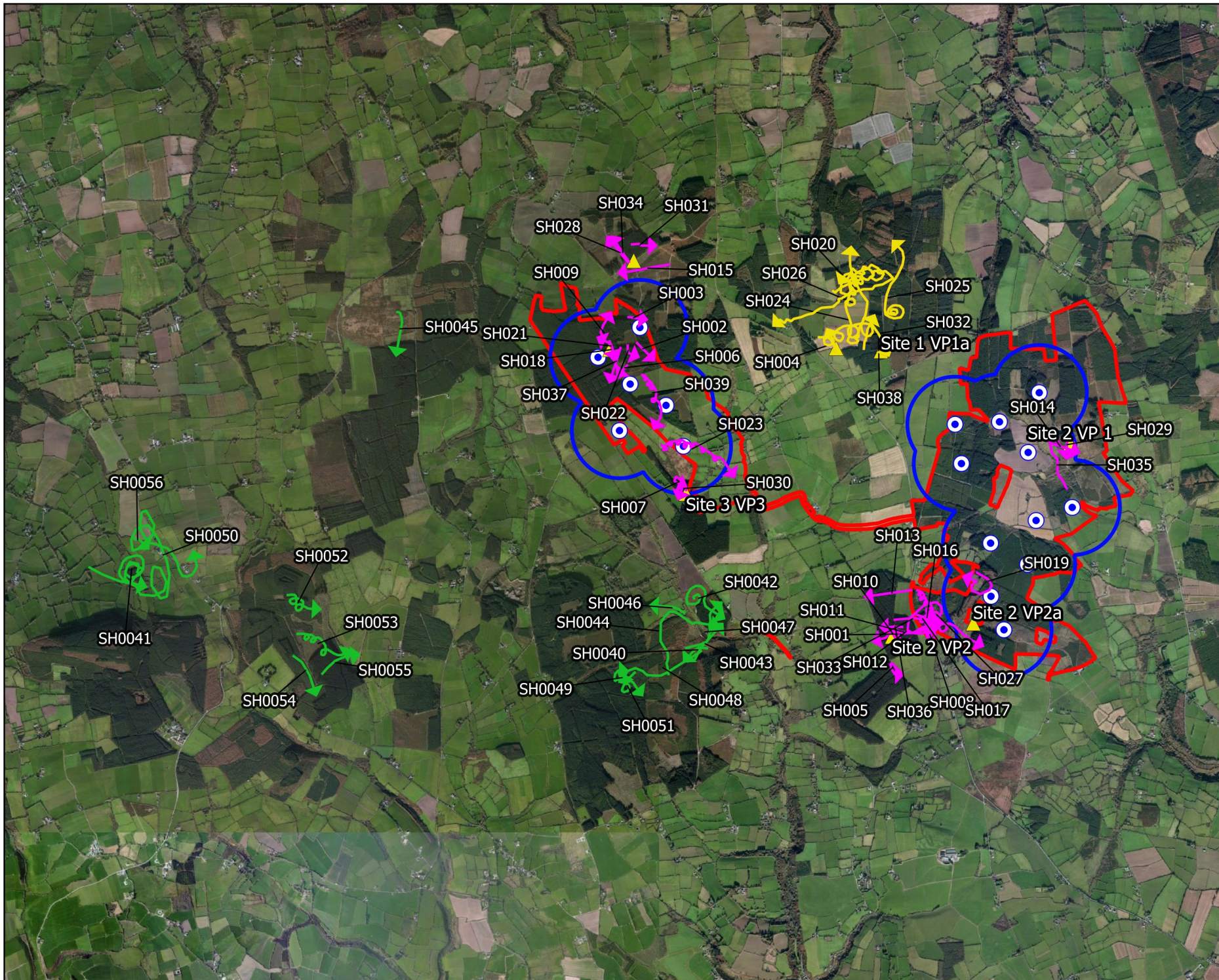
Table 19 Sparrowhawk Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
SH001	07/10/2016	Site 2 VP2	Sparrowhawk	1	10:28:00	30	20				Immature	T. Nagle
SH002	12/10/2016	Site 3 VP2	Sparrowhawk	1	11:20:00	7		7				T. Nagle
SH003	13/10/2016	Site 3 VP1	Sparrowhawk	1	10:15:00	2	2					T. Nagle
SH005	07/11/2016	Site 2 VP2	Sparrowhawk	1	07:38:00	4	4					T. Nagle
SH006	14/11/2016	Site 3 VP2	Sparrowhawk	1	15:47:00	4	4					T. Nagle
SH007	18/11/2016	Site 3 VP3	Sparrowhawk	1	13:26:00	15	15					T. Nagle
SH008	04/12/2016	Site 2 VP2	Sparrowhawk	1	13:49:00	10	20					T. Nagle
SH009	24/12/2016	Site 3 VP2	Sparrowhawk	1	10:02:00	35		35				T. Nagle
SH010	03/01/2017	Site 2 VP1	Sparrowhawk	1	09:51:00	25		25				T. Nagle
SH011	03/01/2017	Site 2 VP1	Sparrowhawk	1	09:52:00	20	20					T. Nagle
SH012	03/01/2017	Site 2 VP1	Sparrowhawk	1	12:38:00	25	25					T. Nagle
SH013	03/01/2017	Site 2 VP1	Sparrowhawk	1	14:40:00	15	15					T. Nagle
SH014	05/01/2017	Site 2 VP1	Sparrowhawk	1	11:26:00	10	10					T. Nagle
SH015	09/01/2017	Site 3 VP1	Sparrowhawk	1	11:57:00	12	12					T. Nagle
SH016	09/02/2017	Site 2 VP2	Sparrowhawk	1	10:25:00	150	25	125				T. Nagle
SH017	09/02/2017	Site 2 VP2	Sparrowhawk	1	11:26:00	8		8				T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
SH018	15/02/2017	Site 3 VP2	Sparrowhawk	1	11:10:00	10	10					T. Nagle
SH019	04/03/2017	Site 2 VP2	Sparrowhawk	1	11:59:00	45	15	30				T. Nagle
SH021	10/05/2017	Site 3 VP2	Sparrowhawk	1	08:57:00	8	8					T. Nagle
SH022	12/06/2017	Site 3 VP2	Sparrowhawk	1	11:33:00	3	3					T. Nagle
SH023	16/06/2017	Site 3 VP3	Sparrowhawk	1	13:58:00	90		90				T. Nagle
SH027	03/08/2017	Site 2 VP2	Sparrowhawk	1	12:33:00	360		360				T. Nagle
SH028	24/09/2017	Site 3 VP1	Sparrowhawk	1	09:45:00	10	10					T. Nagle
SH029	25/09/2017	Site 2 VP1	Sparrowhawk	1	10:34:00	6	6					T. Nagle
SH030	27/10/2017	Site 3 VP3	Sparrowhawk	1	10:42:00	16	16				Local disturbance by hunter and dogs in Hr 5 and Tree-sprayers in Hr6.	T. Nagle
SH031	20/11/2017	Site 3 VP1	Sparrowhawk	1	15:05:00	10	10					T. Nagle
SH033	08/12/2017	Site 2 VP2	Sparrowhawk	1	12:58:00	8	8					T. Nagle
SH034	11/12/2017	Site 3 VP1	Sparrowhawk	1	10:07:00	6	6					T. Nagle
SH035	17/01/2018	Site 2 VP1	Sparrowhawk	1	11:33:00	15		15			Flew N at 20-30m over forest.	T. Nagle
SH036	07/02/2018	Site 2 VP2	Sparrowhawk	1	13:51:00	6	6					T. Nagle
SH037	20/03/2018	Site 3 VP2	Sparrowhawk	1	10:58:00	8	8				Eucalyptus (pre-thicket) Flying over Eucalyptus plantation	T. Nagle

Table 20 Sparrowhawk Incidental Observation during Hen Harrier Roost Survey

Date	Survey Type	Location	Species	Number of Individuals	Notes	Surveyor
29/12/2017	Hen Harrier Roost Survey	HHVP1	Sparrowhawk	2	Gorse scrub	TN



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



Drawing Title	
Sparrowhawk VP Flights (Sep 2016 - Sep 2018)	
Project Title	
Lyrenacarriga Windfarm	
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.1.9
Scale	Date
1:52000	18.11.2020
	
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Table 21 Kestrel Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
K001	08/09/2016	Site 2 VP2	Kestrel	2	10:31:00	20	4	16			2 Kestrels (probably immatures) flew over VP AT 40m and dropped to 5m. Mobbed by 2 Jackdaws.	T. Nagle
K002	13/09/2016	Site 2 VP1	Kestrel	1	13:24:00	35	15	20			Hovering and flying over clearfell	T. Nagle
K003	13/09/2016	Site 2 VP1	Kestrel	1	13:31:00	45		45			Flying and hovering. Mobbed by Rook.	T. Nagle
K005	15/09/2016	Site 3 VP2	Kestrel	1	14:35:00	4	4					T. Nagle
K006	16/09/2016	Site 3 VP3	Kestrel	1	10:37:00	420	420				Kestrel flying low and landing on brash stumps	T. Nagle
K007	16/09/2016	Site 3 VP3	Kestrel	1	10:48:00	480	480				Kestrel flying low and landing on brash stumps	T. Nagle
K008	16/09/2016	Site 3 VP3	Kestrel	1	11:07:00	10	10				Kestrel flying low and landing on brash stumps	T. Nagle
K009	16/09/2016	Site 3 VP3	Kestrel	1	11:07:00	7	7					T. Nagle
K010	16/09/2016	Site 3 VP3	Kestrel	1	11:53:00	5	5					T. Nagle
K011	23/09/2016	Site 3 VP1	Kestrel	1	10:26:00	10	10				Flew from tree to tree	T. Nagle
K012	23/09/2016	Site 3 VP1	Kestrel	1	10:54:00	30	30				Flying around clearfell	T. Nagle
K013	11/10/2016	Site 3 VP3	Kestrel	1	11:02:00	15		15			Kestrel sightings probably relate to one bird.	T. Nagle
K014	11/10/2016	Site 3 VP3	Kestrel	1	12:08:00	180		20				T. Nagle
K015	11/10/2016	Site 3 VP3	Kestrel	1	13:25:00	30	30					T. Nagle
K016	11/10/2016	Site 3 VP3	Kestrel	1	16:24:00	25	25					T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
K017	07/11/2016	Site 2 VP2	Kestrel	1	11:18:00	8	4	4				T. Nagle
K018	09/11/2016	Site 2 VP1	Kestrel	1	13:40:00	120		120				T. Nagle
K019	10/11/2016	Site 3 VP1	Kestrel	1	12:26:00	15		15				T. Nagle
K020	24/12/2016	Site 3 VP2	Kestrel	1	13:04:00	25		25				T. Nagle
K021	24/12/2016	Site 3 VP2	Kestrel	1	14:40:00	15		45				T. Nagle
K022	24/12/2016	Site 3 VP2	Kestrel	1	14:44:00	45		45				T. Nagle
K023	24/12/2016	Site 3 VP3	Kestrel	1	13:03:00	30		30				A.MC
K024	09/01/2017	Site 3 VP1	Kestrel	1	12:45:00	75	60	15				T. Nagle
K025	10/01/2017	Site 3 VP2	Kestrel	1	12:14:00	12	12				Tree-felling to North of VP (not affecting most of site)	T. Nagle
K032	22/02/2017	Site 3 VP1	Kestrel	1	11:53:00	30	30					T. Nagle
K034	09/05/2017	Site 3 VP1	Kestrel	1	14:21:00	10	10					T. Nagle
K035	09/05/2017	Site 3 VP1	Kestrel	1	17:58:00	150		150				T. Nagle
K036	16/05/2017	Site 3 VP3	Kestrel	1	10:19:00	35	35					T. Nagle
K039	12/06/2017	Site 3 VP2	Kestrel	1	11:54:00	45		45				T. Nagle
K040	12/06/2017	Site 3 VP2	Kestrel	1	14:24:00	120		120				T. Nagle
K041	10/07/2017	Site 3 VP1	Kestrel	1	18:05:00	5	5					T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
K044	03/08/2017	Site 2 VP2	Kestrel	1	14:15:00	120	120					T. Nagle
K045	07/08/2017	Site 3 VP1	Kestrel	2	12:41:00	70		70				T. Nagle
K046	08/08/2017	Site 3 VP2	Kestrel	1	11:54:00	20	20					T. Nagle
K047	10/08/2017	Site 3 VP3	Kestrel	1	12:12:00	70	70					T. Nagle
K049	09/10/2017	Site 3 VP1	Kestrel	1	10:22:00	14	14					T. Nagle
K050	17/10/2017	Site 3 VP2	Kestrel	1	10:51:00	7	7					T. Nagle
K051	14/11/2017	Site 3 VP2	Kestrel	1	12:18:00	35	35					T. Nagle
K052	20/11/2017	Site 3 VP1	Kestrel	1	13:04:00	660		660				T. Nagle
K053	20/11/2017	Site 3 VP1	Kestrel	1	15:32:00	80		80				T. Nagle
K055	11/12/2017	Site 3 VP1	Kestrel	1	13:27:00	7	7					T. Nagle
K056	03/01/2018	Site 2 VP2	Kestrel	1	11:06:00	60		60				T. Nagle
K057	04/01/2018	Site 3 VP1	Kestrel	1	14:11:00	40		40				T. Nagle
K058	14/01/2018	Site 3 VP3	Kestrel	1	12:13:00	8	8					T. Nagle
K059	14/01/2018	Site 3 VP3	Kestrel	1	14:49:00	8	8					T. Nagle
K060	14/01/2018	Site 3 VP3	Kestrel	1	15:25:00	750		750				T. Nagle
K061	09/02/2018	Site 3 VP1	Kestrel	1	12:04:00	40	40					T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
K062	20/02/2018	Site 3 VP3	Kestrel	1	11:24:00	35	35				Restock (post-thicket) Female Kestrel. Perching and flying	T. Nagle
K063	20/02/2018	Site 3 VP3	Kestrel	1	15:46:00	45		45			Restock (post-thicket) Hovering and flying	T. Nagle
K064	09/03/2018	Site 2 VP2	Kestrel	1	10:35:00	6	6				Restock (pre-thicket) Flying	T. Nagle
K065	12/03/2018	Site 2 VP1	Kestrel	1	13:12:00	60		60			Restock (pre-thicket) Hovering and flying	T. Nagle
K066	12/03/2018	Site 2 VP1	Kestrel	1	13:35:00	10	10				Conifer forest Flying	T. Nagle
K069	20/03/2018	Site 3 VP2	Kestrel	1	12:27	12	12				Restock (pre-thicket) Flying over restock	T. Nagle
K070	23/03/2018	Site 3 VP1	Kestrel	1	15:04:00	180		180			Restock (pre-thicket) Hovering and flying	T. Nagle
K071	30/03/2018	Site 3 VP3	Kestrel	1	13:31:00	180	180				Dry heath Hovering and flying	T. Nagle
K072	21/04/2018	Site 3 VP1	Kestrel	1	13:15	60		60				
K073	21/04/2018	Site 3 VP1	Kestrel	1	14:10	25	25					
K074	04/05/2018	Site 3 VP1	Kestrel	1	14:25:00	15		15			Conifer forest Hovering and flying	T. Nagle
K075	04/05/2018	Site 3 VP1	Kestrel	1	15:05:00	60		60			Conifer forest Hovering and flying	T. Nagle
K076	27/06/2018	Site 3 VP2	Kestrel	1	11:02:00	15		15			Conifer forest Circled over forest and drifted NW	T. Nagle
K077	27/06/2018	Site 3 VP3	Kestrel	1	14:22:00	25	25				Conifer forest	T. Nagle
K078	27/06/2018	Site 3 VP3	Kestrel	1	14:25:00	20	25				Conifer forest	T. Nagle
K079	27/06/2018	Site 3 VP3	Kestrel	1	14:45:00	270	160	110			Conifer forest	T. Nagle

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
K080	11/07/2018	Site 2 VP1	Kestrel	1	13:39:00	20					Conifer forest	T. Nagle
K081	16/07/2018	Site 3 VP2	Kestrel	1	14:35:00	25	25				Conifer forest	T. Nagle
K082	16/07/2018	Site 3 VP2	Kestrel	1	18:11:00	20	20				Conifer forest	T. Nagle
K083	30/07/2018	Site 3 VP3	Kestrel	1	10:23:00	15					Conifer forest	T. Nagle
K084	06/08/2018	Site 2 VP1	Kestrel	1	13:44:00	40		40			Conifer forest	T. Nagle
K085	08/08/2018	Site 3 VP1	Kestrel	1	10:27:00	10	10				Conifer forest	T. Nagle
K086	08/08/2018	Site 3 VP1	Kestrel	1	13:19:00	12	12				Conifer forest	T. Nagle
K087	27/08/2018	Site 2 VP2a	Kestrel	1	11:05:00	5	5				Conifer forest	T. Nagle
K088	27/08/2018	Site 2 VP2a	Kestrel	2	12:01:00	15	15				Conifer forest	T. Nagle
K089	27/08/2018	Site 2 VP2a	Kestrel	1	13:34:00	15		15			Conifer forest	T. Nagle
K090	27/08/2018	Site 2 VP2a	Kestrel	1	15:58:00	40	40				Conifer forest	T. Nagle
K093	14/09/2018	Site 2 VP2a	Kestrel	2	12:00:00	120		120			Conifer forest	T. Nagle
K094	28/09/2018	Site 3 VP3	Kestrel	1	12:48:00	20	20				Conifer forest	T. Nagle
K095	28/09/2018	Site 3 VP3	Kestrel	1	13:25:00	30		30			Improved grassland	T. Nagle
K096	28/09/2018	Site 3 VP3	Kestrel	1	13:59:00	480	75	405			Conifer forest	T. Nagle

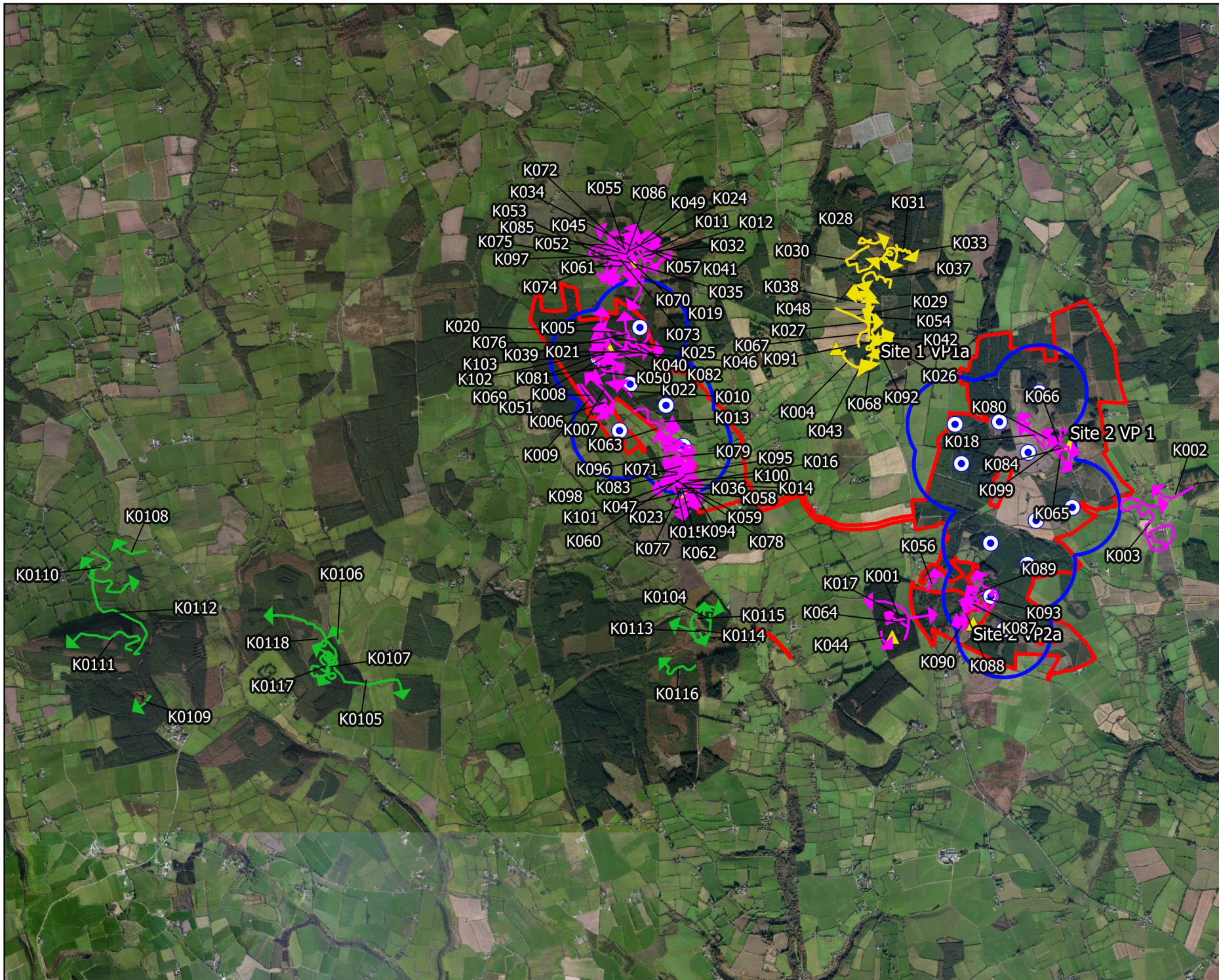


Table 22 Kestrel Incidental Observation during Hen Harrier Roost Survey

Date	Survey Type	Location	Species	Number of Individuals	Notes	Surveyor
29/12/2017	Hen Harrier Roost Survey	HHVP1	Kestrel	1	Gorse scrub	TN

Table 23 Kestrel Incidental Observation during Waterfowl Survey

Date	Location	Species	Number of birds
04/11/2016	Kinsalebeg	Kestrel	1



Map Legend

- Proposed Development Area
- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



Drawing Title

Kestrel VP Flights
(Sep 2016 - Sep 2018)

Project Title

Lyrenacarriga Windfarm

Drawn By

Patrick Manley

Checked By

Padraig Cregg

Project No.

170749

Drawing No.

Fig. 8.1.10

Scale

1:52000

Date

18.11.2020



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Table 24 Common Snipe Core Vantage Point Survey Data

Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
	15/09/2016	Site 3 VP2	Common Snipe	4	15:08:00	15		15				4 Snipe flew W at 75m over site.	T. Nagle
	18/11/2016	Site 3 VP3	Common Snipe	11	12:53:00	240		240					T. Nagle
	27/10/2017	Site 3 VP3	Common Snipe	9	10:32:00	60	60					Local disturbance by hunter and dogs in Hr 5 and Tree-sprayers in Hr 6.	T. Nagle
	21/11/2017	Site 3 VP3	Common Snipe	7	13:29:00	360	15	345					T. Nagle
	11/12/2017	Site 3 VP1	Common Snipe	6	11:10:00	25		25					T. Nagle
	07/02/2018	Site 2 VP2	Common Snipe	4	15:46:00	15		15				4 Snipe flew W at 35-40m over VP.	T. Nagle
	20/03/2018	Site 3 VP2	Common Snipe	1	12:02:00	7	7				Eucalyptus (pre-thicket) Flying over Eucalyptus plantation		T. Nagle
	04/05/2018	Site 3 VP1	Common Snipe	1	16:25:00	45		45			Conifer forest Flew up from 2nd rotation and headed north		T. Nagle

Table 25 Common Snipe Waterfowl Survey Data

Date	Location	BTO Code	Species	Number of birds	Surveyor
14/12/2016	Newport East	SN	Common Snipe	60	T. Nagle
08/02/2017	Newport East	SN	Common Snipe	14	T. Nagle