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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

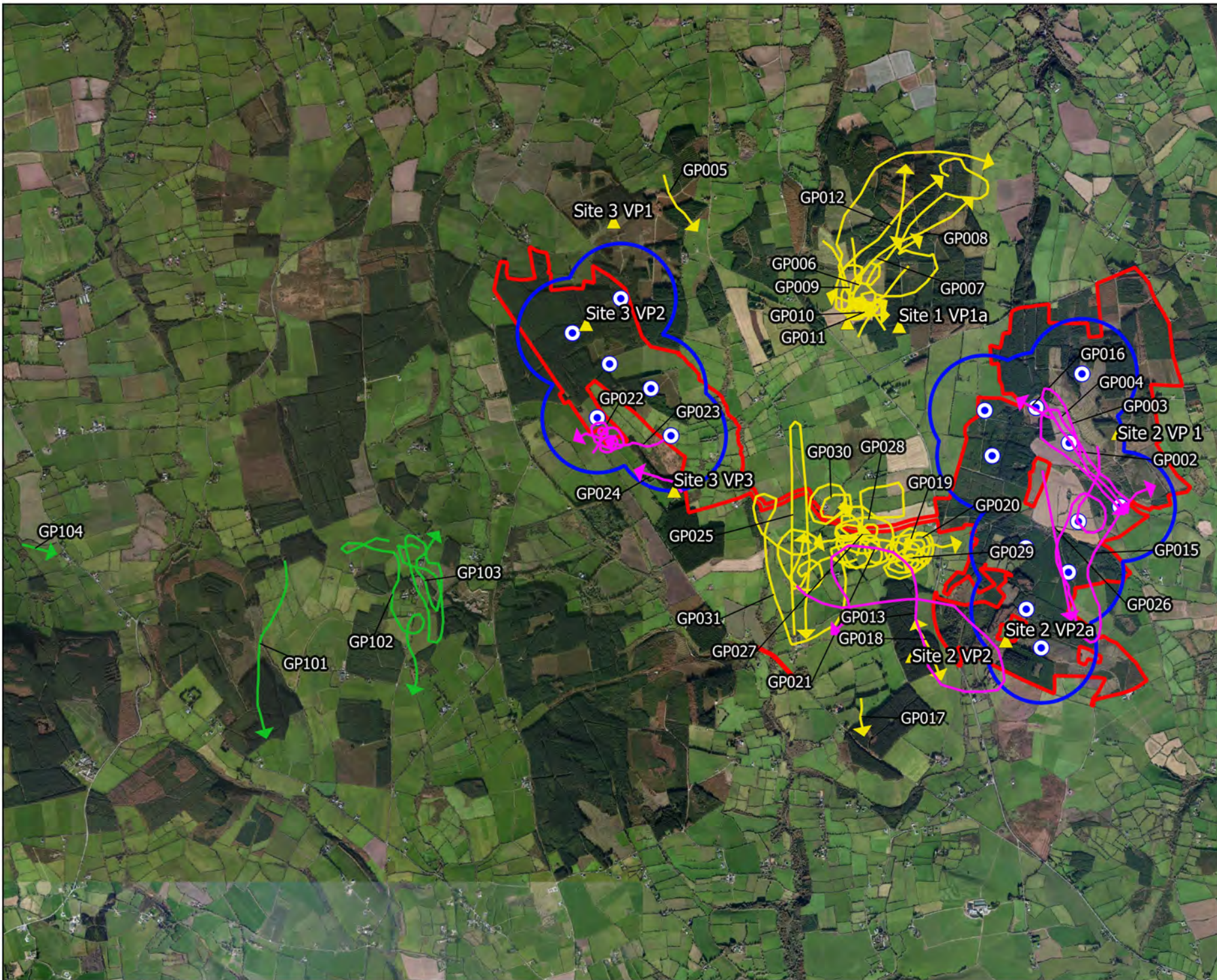
Date	Location	Species	Number of birds
02/11/2016	Newport East	Golden Plover	1429
14/12/2016	Newport East	Golden Plover	5
15/03/2017	Ferrypoint	Golden Plover	9

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



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

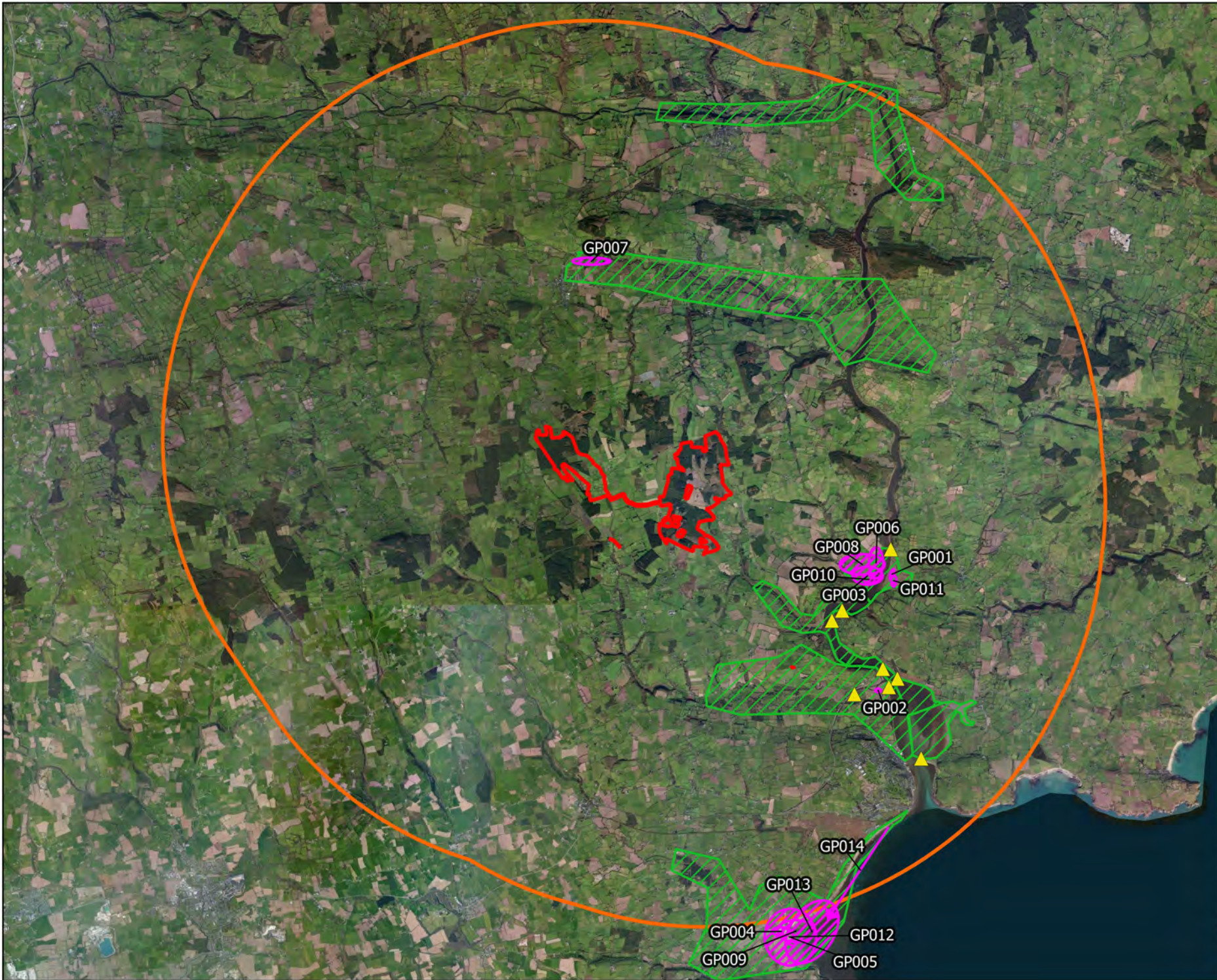
Date

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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

Patrick Manley

Checked By

Padraig Cregg

Project No.

170749

Drawing No.

Fig. 8.7.1

Scale

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Date

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Table 4 Whooper Swan Core Vantage Point Survey Data

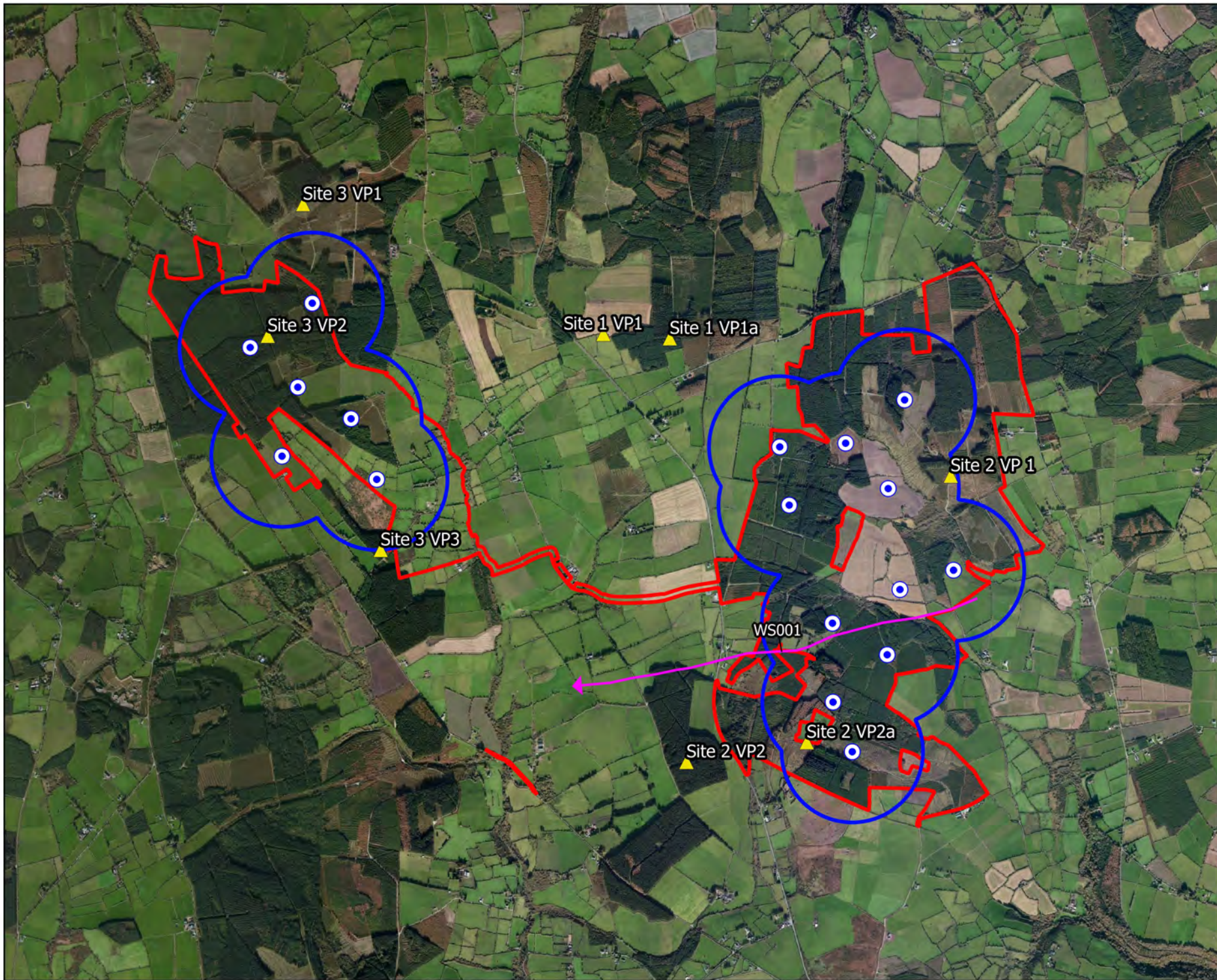
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WS001	07/11/2016	Site 2 VP2	Whooper Swan	2	08:33:00	90			90				T. Nagle

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
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Project No. 170749	Drawing No. Fig. 8.1.2
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Scale 1:35000	Date 18.11.2020
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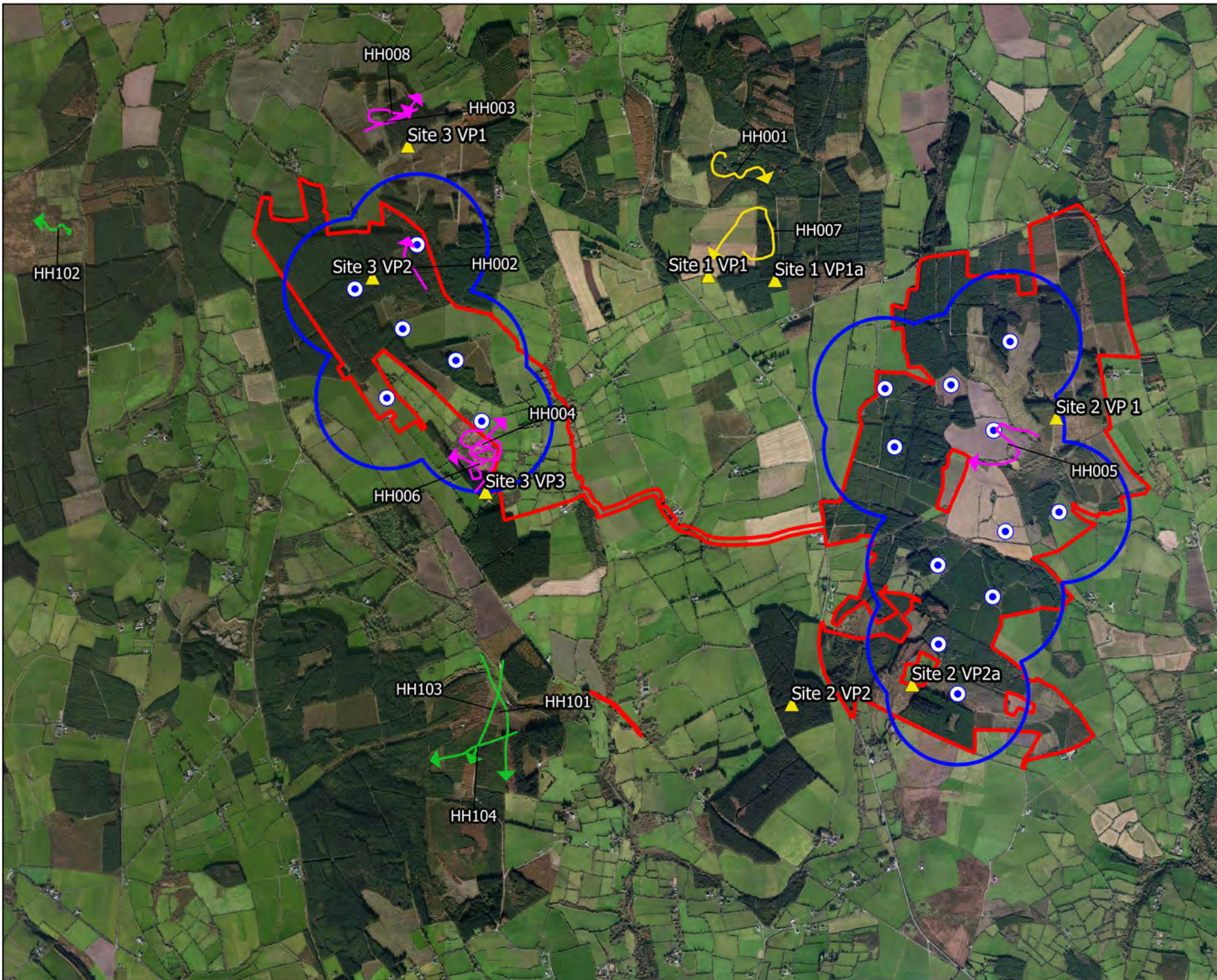
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Table 6 Hen Harrier Core Vantage Point Survey Data

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

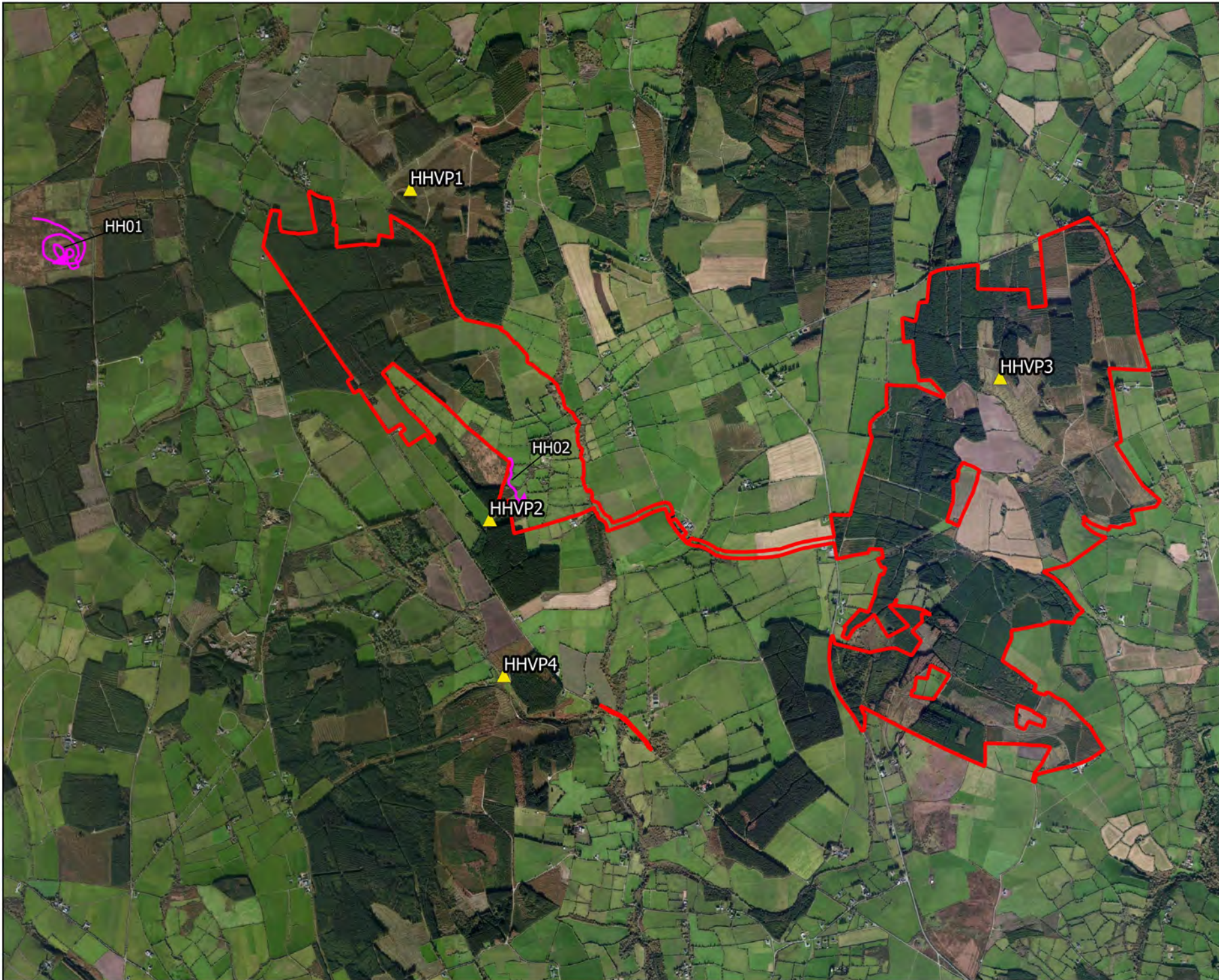
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- Proposed Turbine Layout
- 500m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- Core VP Flights (Sites 2 & 3)
- Site 1 VP1(a) Flights
- Flights from Discontinued VPs



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
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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

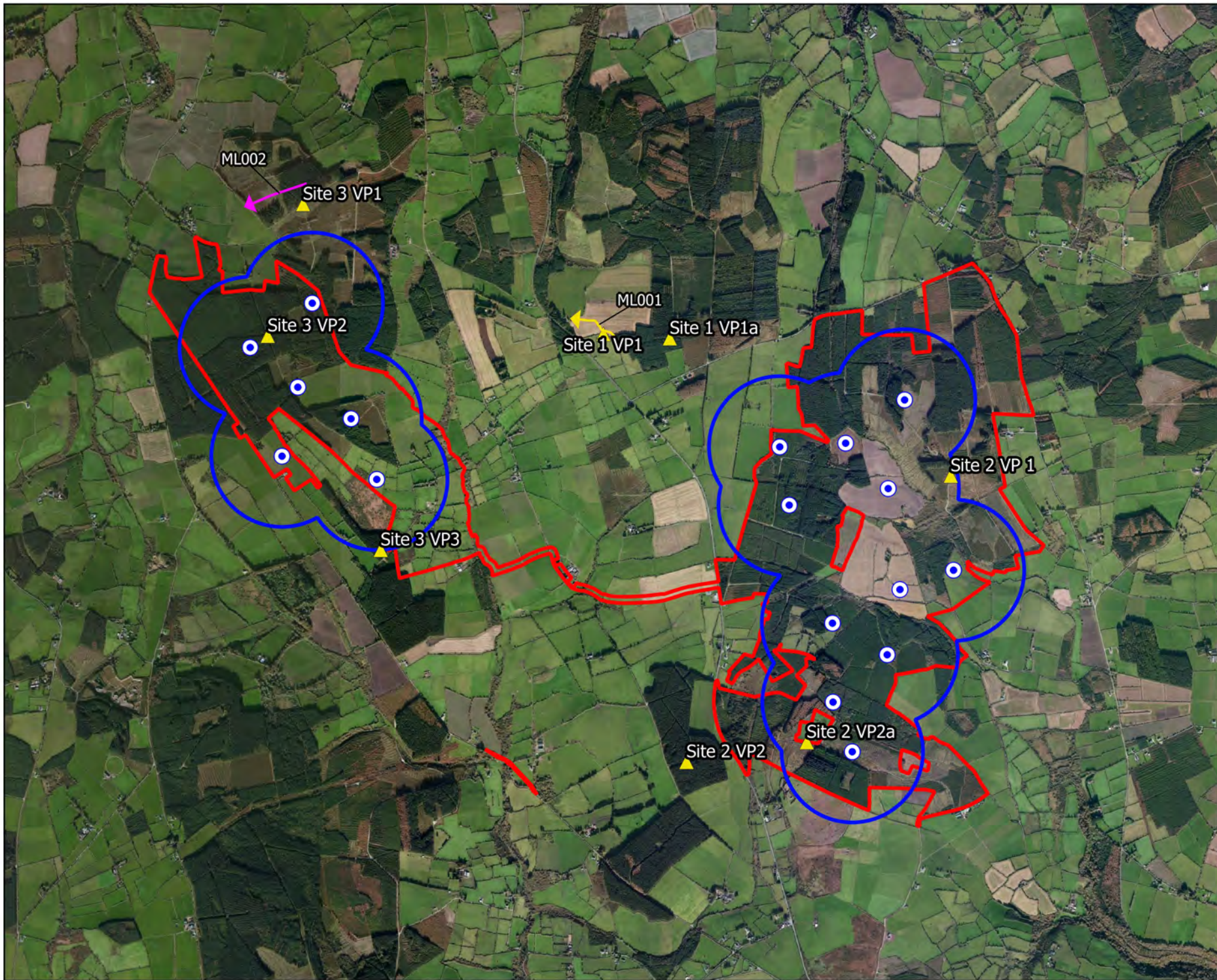
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.5.1
Scale	Date
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Table 8 Merlin Core Vantage Point Survey Data

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	
Lyencarriga Windfarm	
Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.1.4
Scale	Date
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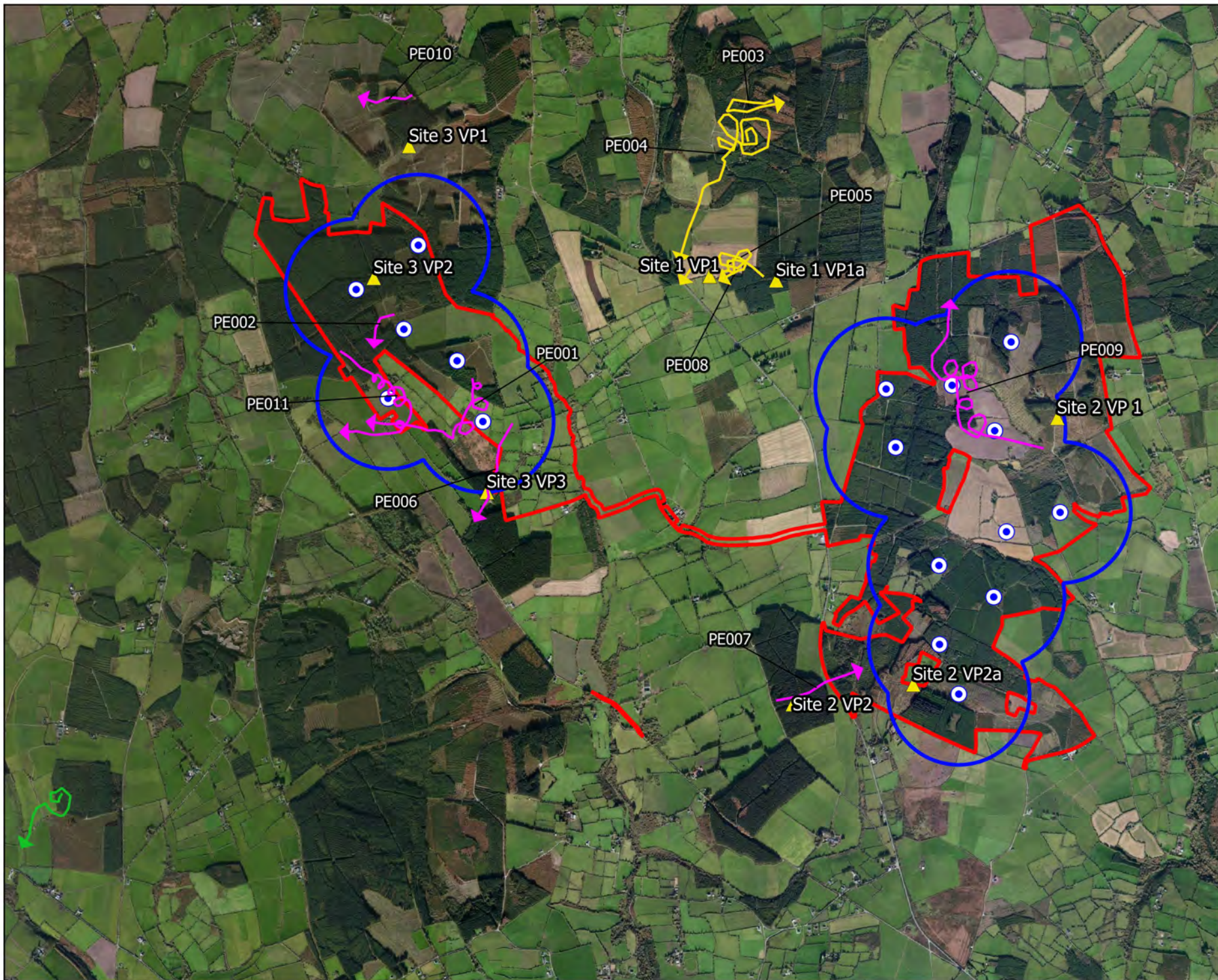
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Table 9 Peregrine Core Vantage Point Survey Data

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

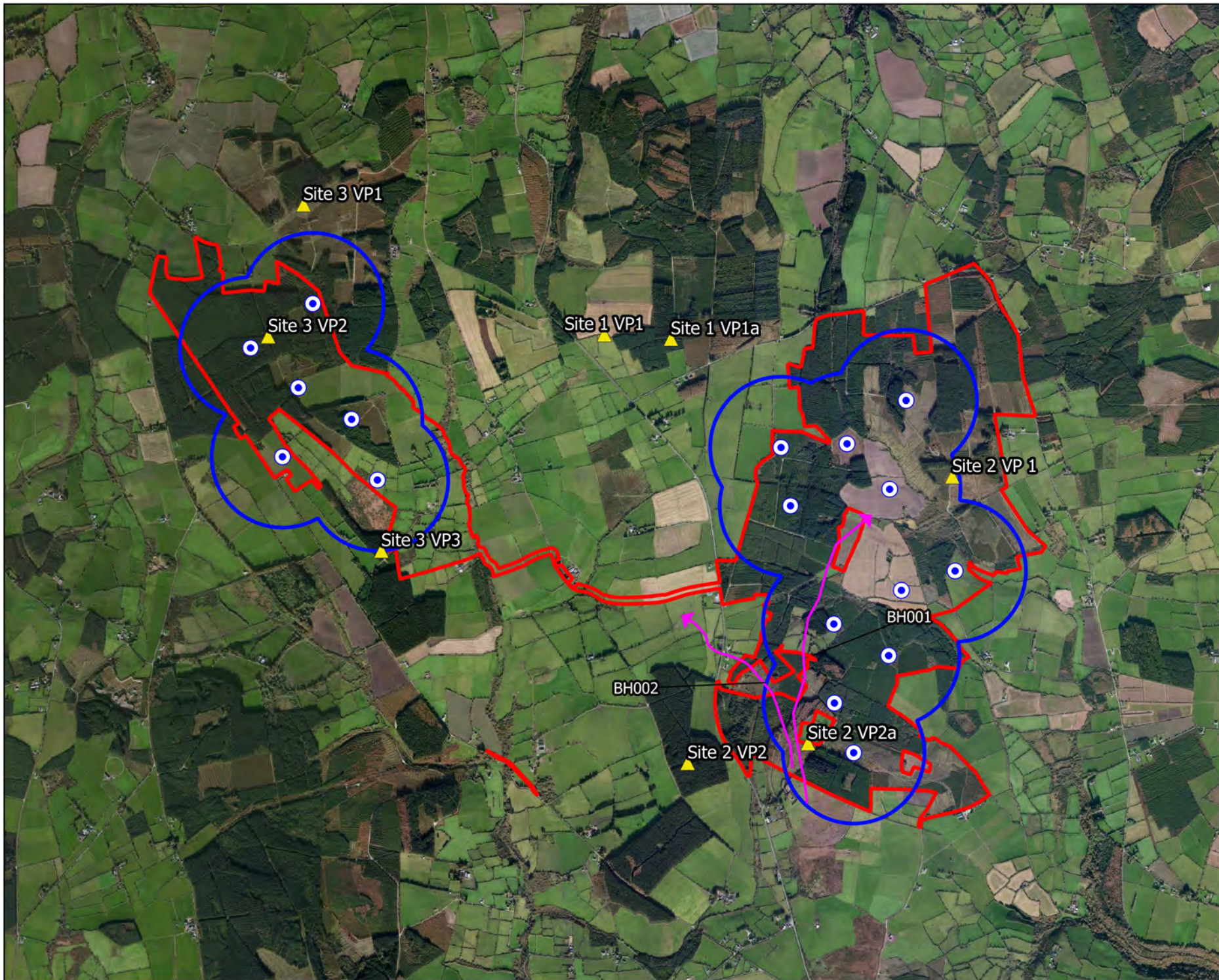
Date	Location	Species	Number of birds
07/02/2017	Ballinvella	Black-headed Gull	25
07/02/2017	Ballyderown	Black-headed Gull	150
02/11/2016	Ballyphilip East	Black-headed Gull	6
16/12/2016	Ballyphilip East	Black-headed Gull	55
17/01/2017	Ballyphilip East	Black-headed Gull	1
05/09/2016	Camphire	Black-headed 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
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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

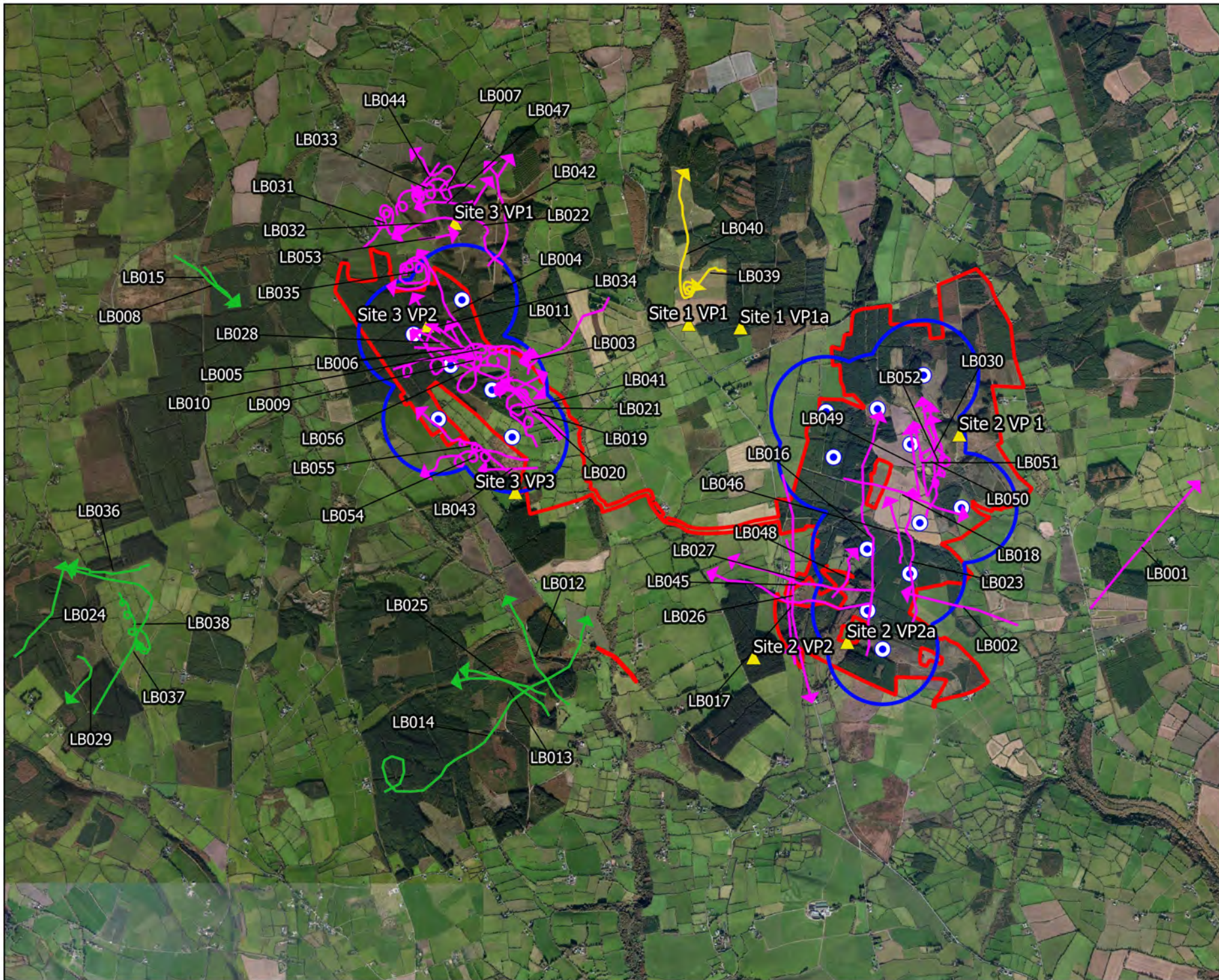
Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
LB001	13/09/2016	Site 2 VP1	Lesser Black-backed Gull	1	10:35:00	35		35			Flew NE @ 40m	T. Nagle
LB002	13/09/2016	Site 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

Lyrenacarriga Windfarm

Drawn By	Checked By
Patrick Manley	Padraig Cregg
Project No.	Drawing No.
170749	Fig. 8.1.7
Scale	Date
1:45000	18.11.2020

MKO

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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

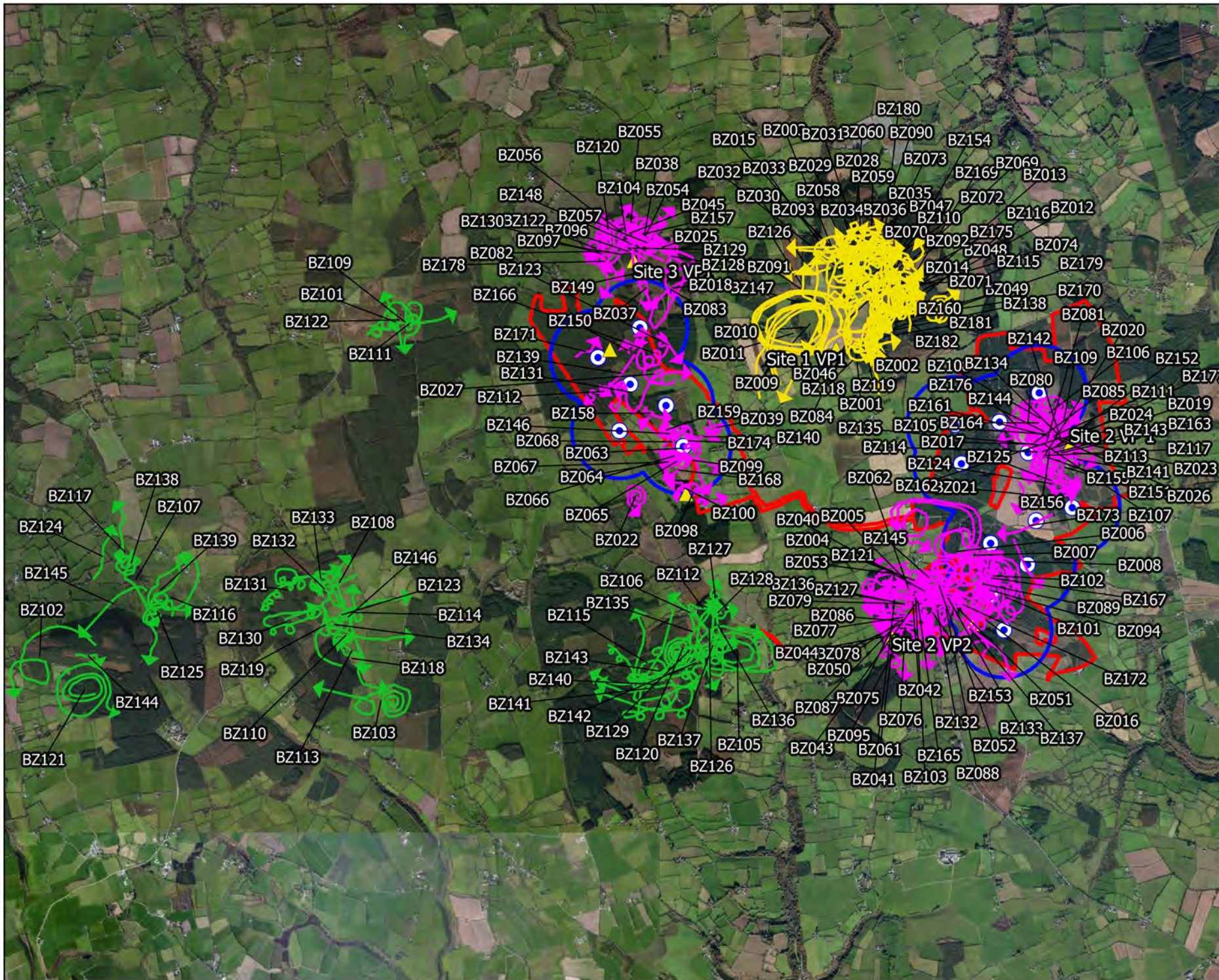
Table 17 Buzzard Breeding Raptor Survey Data

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



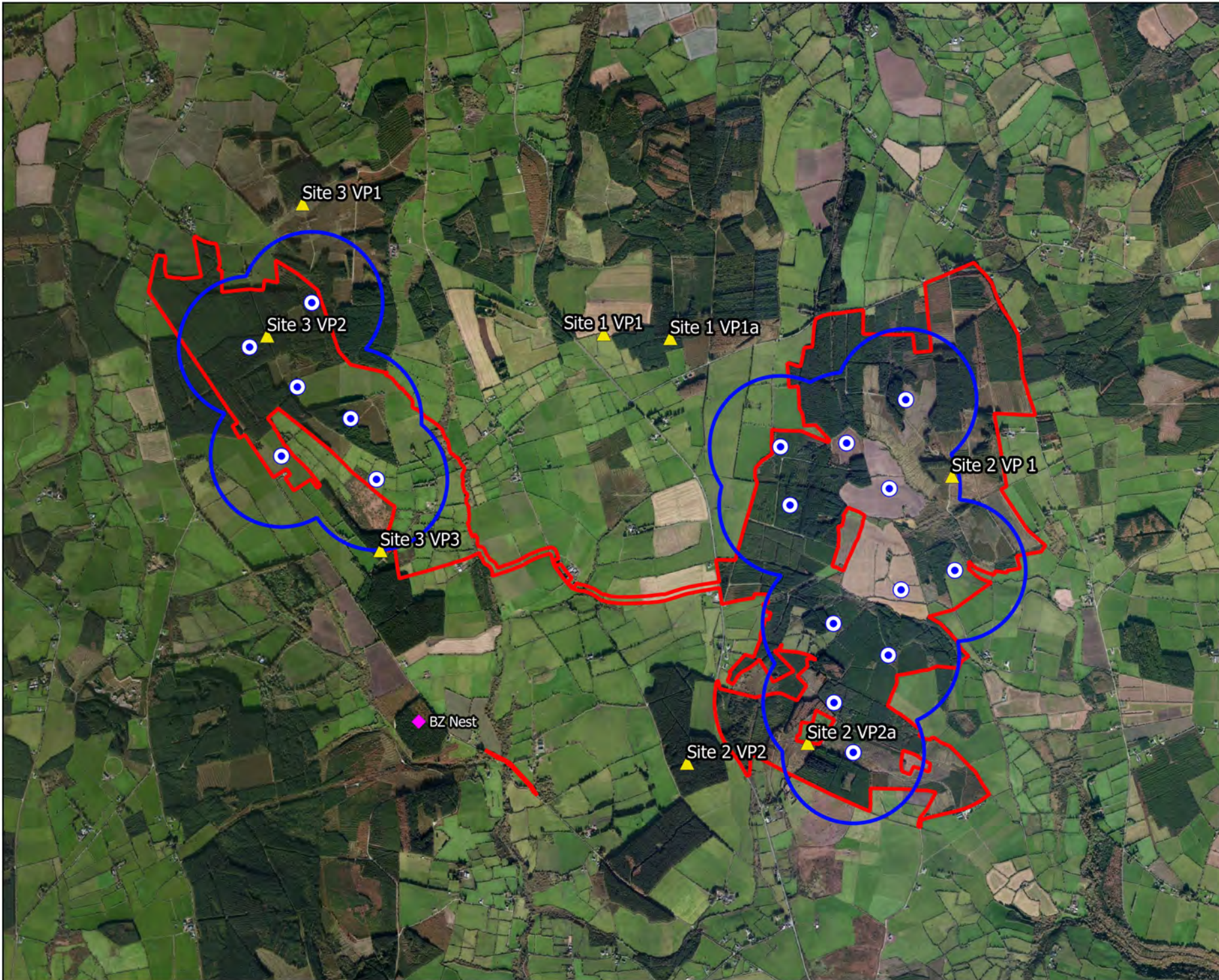
North

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



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Map Legend

- ▭ Proposed Development Area
- Proposed Turbine Layout
- ▭ 50m Buffer of the Proposed Turbine Layout
- ▲ Vantage Point Locations
- ◆ Buzzard Nest Location



Drawing Title

Buzzard Nest Location

Project Title

Lyrenacarriga Windfarm

Drawn By Patrick Manley	Checked By Padraig Cregg
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Project No. 170749	Drawing No. Fig. 8.18.1
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Scale 1:35000	Date 18.11.2020
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Table 19 Sparrowhawk Core Vantage Point Survey Data

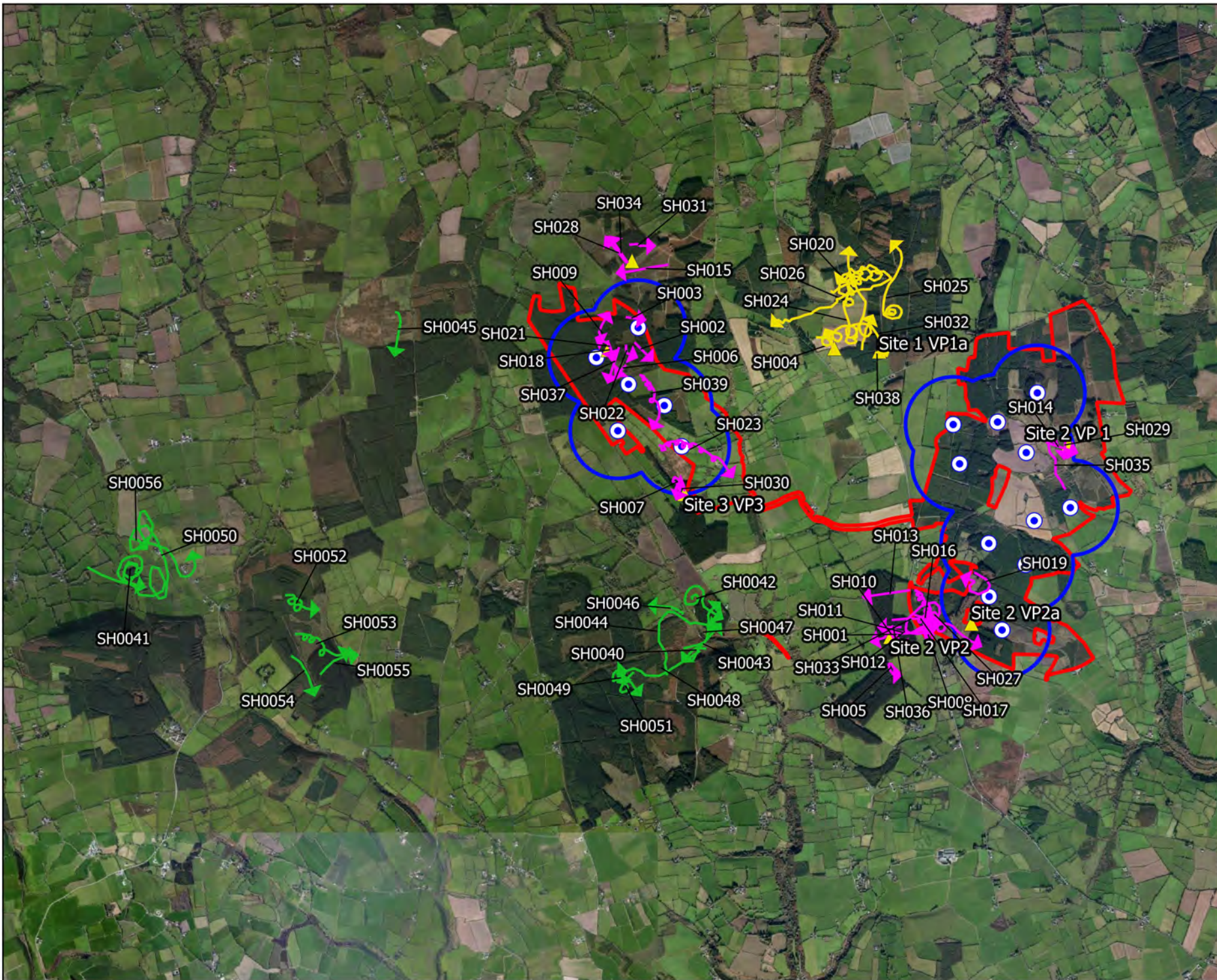
Map Ref No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-20m)	Band 2 (20-140m)	Band 3 (140-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
SH001	07/10/2016	Site 2 VP2	Sparrowhawk	1	10:28:00	30	20				Immature	T. Nagle
SH002	12/10/2016	Site 3 VP2	Sparrowhawk	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

Patrick Manley

Checked By

Padraig Cregg

Project No.

170749

Drawing No.

Fig. 8.1.9

Scale

1:52000

Date

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

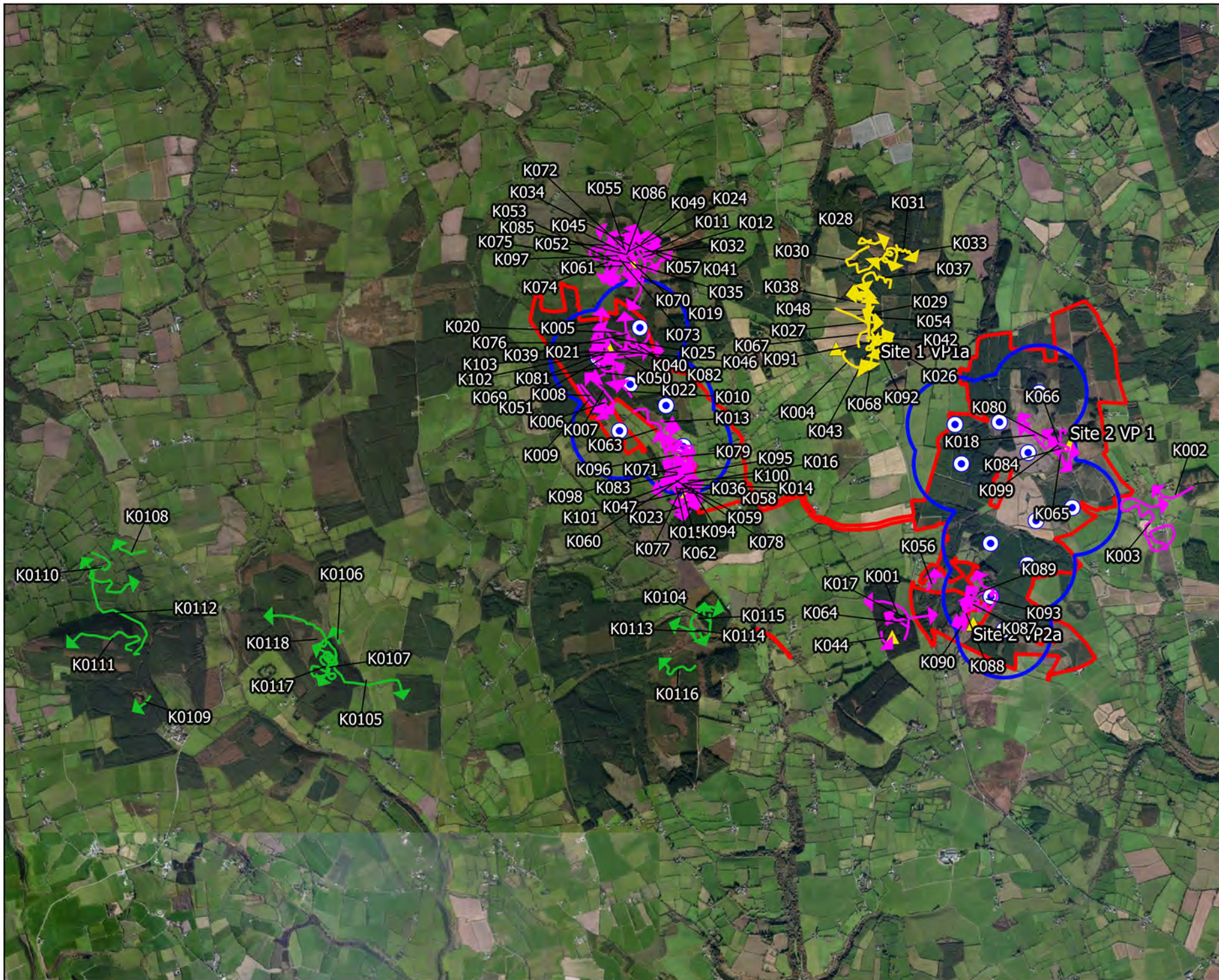


Table 22 Kestrel Incidental Observation during Hen Harrier Roost Survey

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. 8.110

Scale

1:52000

Date

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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