

Meenbog Windfarm EIAR Co. Donegal

Birds Technical Appendix 7.3



Planning & Environmental Consultants

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Table 1: Vantage Point Survey Effort Summary Table.

Data Set (Seasons)	Months	Effort/month	Total hours per VP
2015 Breeding Season (4VPs)	Apr-Sep	6 hours/VP/month	36.75
2015/2016 Non-Breeding Season (4VPs)	Oct-Mar	6 hours/VP/month	35.75
2016 Breeding Season (5VPs)	Apr-Sep	6 hours/VP/month	37.4
2016/2017 Non-Breeding Season (5VPs)	Oct-Mar	6 hours/VP/month	36.8
2017 Breeding Season (5VPs)	Apr-Sep	6 hours/VP/month	36
All vantage point watches had the required 6 hour minimum per vantage point (VP)			

Table 2: Monthly distribution of flight activity recorded for the target species during the vantage point watches.

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
Whooper Swan	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		bird-secs	0	0	0	10	0	0	0	0	0	0	0	0	0	10
	2017	records	0	0	0	0	0	0	0	0	0	0				0
		bird-secs	0	0	0	0	0	0	0	0	0	0				0
Golden Plover	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	1	0	0	0	0	0	0	0	0	0				1
		bird-secs	25	0	0	0	0	0	0	0	0	0				25
Merlin	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	0	0	0	1	1	0	1	0	0	0	3
		bird-secs	0	0	0	0	0	0	9	32	0	10	0	0	0	51
	2017	records	0	0	0	0	0	0	0	0	0	0				0
		bird-secs	0	0	0	0	0	0	0	0	0	0				0
Hen Harrier	2015	records				2	0	0	0	0	0	0	0	0	0	2
		bird-secs				170	0	0	0	0	0	0	0	0	0	170
	2016	records	0	0	0	0	0	0	0	0	0	0	1	0	1	2
		bird-secs	0	0	0	0	0	0	0	0	0	0	30	0	27	57
	2017	records	0	0	0	0	0	0	1	0	0	0				1
		bird-secs	0	0	0	0	0	0	25	0	0	0				25

Table 2: Monthly distribution of flight activity recorded for the target species during the vantage point watches.

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
Goshawk	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	0	1	0	0	0	0	0	0	0				1
		bird-secs	0	0	130	0	0	0	0	0	0	0				130
Golden Eagle	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		bird-secs	0	0	0	26	0	0	0	0	0	0	0	0	0	26
	2017	records	0	0	0	0	0	0	0	0	0	0				0
		bird-secs	0	0	0	0	0	0	0	0	0	0				0
Lesser Black-backed Gull	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	0	0	0	0	0	1	0	0	0				1
		bird-secs	0	0	0	0	0	0	80	0	0	0				80
Red Grouse	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	0	0	0	0	0	0	0	1	0	0	1
		bird-secs	0	0	0	0	0	0	0	0	0	0	15	0	0	15
	2017	records	0	0	0	0	0	0	0	0	0	0				0
		bird-secs	0	0	0	0	0	0	0	0	0	0				0

Table 2: Monthly distribution of flight activity recorded for the target species during the vantage point watches.

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
Woodcock	2015	records				0	0	0	0	0	0	0	0	0	2	2
		bird-secs				0	0	0	0	0	0	0	0	0	10	10
	2016	records	0	0	0	0	0	1	0	0	0	0	0	0	0	1
		bird-secs	0	0	0	0	0	16	0	0	0	0	0	0	0	16
	2017	records	1	0	0	2	1	0	0	0	0				4	
		bird-secs	5	0	0	9	600	0	0	0	0				614	
Wigeon	2015	records				0	0	0	0	0	0	0	0	0	0	0
		bird-secs				0	0	0	0	0	0	0	0	0	0	0
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	1	0	0	0	0	0	0	0				1	
		bird-secs	0	20	0	0	0	0	0	0	0				20	
Buzzard	2015	records				0	0	0	0	6	1	0	0	0	7	
		bird-secs				0	0	0	0	1,171	180	0	0	0	1351	
	2016	records	0	0	0	6	4	4	6	1	2	0	0	0	23	
		bird-secs	0	0	0	716	285	337	369	40	32	0	0	0	1779	
	2017	records	0	0	0	0	0	7	2	1	1				11	
		bird-secs	0	0	0	0	0	1,590	25	69	360				2044	
Sparrowhawk	2015	records				0	0	0	0	0	0	0	0	0	0	
		bird-secs				0	0	0	0	0	0	0	0	0	0	
	2016	records	0	0	0	1	1	2	0	3	0	0	1	0	8	
		bird-secs	0	0	0	15	23	39	0	84	0	0	10	0	171	
	2017	records	2	0	2	0	1	0	2	1	2				10	
		bird-secs	15	0	40	0	20	0	125	45	260				505	

Table 2: Monthly distribution of flight activity recorded for the target species during the vantage point watches.

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Kestrel	2015	records				0	0	1	0	1	1	0	0	1	4
		bird-secs				0	0	5	0	5	6	0	0	8	24
	2016	records	0	0	0	0	1	1	0	0	0	1	0	0	3
		bird-secs	0	0	0	0	50	31	0	0	0	300	0	0	381
	2017	records	0	0	0	1	0	0	0	0	2				3
		bird-secs	0	0	0	75	0	0	0	0	1,960				2035

Based on analysis of all flight activity data, including data from VPs 1, 2, 3, 4 & 18, and observations of flights below and above the collision risk height band. Survey period = April 2015 - September 2017 (Shaded Cells were months not surveyed).

Table 3: Observations at PCH for target species during vantage point watches

Species	Values	VP1	VP2	VP3	VP4	VP18	Totals
Whooper Swan	Observations (All Bands)	0	0	1	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Golden Plover	Observations (All Bands)	0	0	0	1	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	25	0	25
Merlin	Observations (All Bands)	0	0	1	1	1	3
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Hen Harrier	Observations (All Bands)	0	1	1	2	1	5
	Duration in PCH (Band 3, in Seconds)	0	0	20	110	0	130
Goshawk	Observations (All Bands)	0	0	1	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Golden Eagle	Observations (All Bands)	1	0	0	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Lesser Black-backed Gull	Observations (All Bands)	0	0	1	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	80	0	0	80
Red Grouse	Observations (All Bands)	1	0	0	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Woodcock	Observations (All Bands)	2	3	1	1	0	7
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Wigeon	Observations (All Bands)	0	1	0	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0	0
Buzzard	Observations (All Bands)	9	10	6	9	7	41
	Duration in PCH (Band 3, in Seconds)	1,302	295	824	886	194	3,501
Sparrowhawk	Observations (All Bands)	1	4	3	5	5	18
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	35	35
Kestrel	Observations (All Bands)	3	1	1	4	1	10
	Duration in PCH (Band 3, in Seconds)	188	40	5	11	0	244

Based on analysis of all flight data at PCH for each target species during each of the 5 different VP locations

Table 4: Monthly distribution of flight activity recorded for the target species during the vantage point watch at the Commuting/Migratory Bird VP of the Barnesmore Gap

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals for each year	
Whooper Swan	2015	records										5	3	0	8	
		bird-secs										1,560	970	0	2530	
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	0	0	0	0	0	0	0	0	0				0
		bird-secs	0	0	0	0	0	0	0	0	0	0				0
Golden Plover	2015	records										0	0	0	0	
		bird-secs										0	0	0	0	
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	1	0	0	0	0	0	0	0	0				1
		bird-secs	0	20	0	0	0	0	0	0	0	0				20
Peregrine	2015	records										0	0	0	0	
		bird-secs										0	0	0	0	
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	1	0	0	0	0	0	0	0	0				1
		bird-secs	0	0	0	0	0	0	0	0	0	0				0

Table 4: Monthly distribution of flight activity recorded for the target species during the vantage point watch at the Commuting/Migratory Bird VP of the Barnesmore Gap

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals for each year	
Herring Gull	2015	records										0	0	0	0	
		bird-secs										0	0	0	0	
	2016	records	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		bird-secs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	records	0	0	0	3	0	0	0	0	0	0				3
		bird-secs	0	0	0	0	0	0	0	0	0	0				0

Based on analysis of all flight activity data and observations of flights below and above the collision risk height band. Survey period = October 2015 - September 2017 (Shaded Cells were months not surveyed).

Table 5: Monthly distribution of breeding activity for all birds on site in the 2017 Breeding Season

Territory ID	Species	Activity April	Activity May	Activity June	Activity July
MP01	Meadow Pipit		Displaying		
MP02	Meadow Pipit	Alarm Call	Displaying		Alarm Call
MP03	Meadow Pipit		Alarm Call	Alarm Call	
MP04	Meadow Pipit				Alarm Call
MP05	Meadow Pipit		Displaying		
MP06	Meadow Pipit		Displaying		
MP07	Meadow Pipit		Displaying		
MP08	Meadow Pipit				Displaying
MP09	Meadow Pipit			Alarm Call	
MP10	Meadow Pipit				Alarm Call
MP11	Meadow Pipit			Alarm Call	
MP12	Meadow Pipit			Displaying/Alarm	
MP13	Meadow Pipit		Displaying		
MP14	Meadow Pipit		Alarm Call		
MP15	Meadow Pipit		Pair Alarm		
MP16	Meadow Pipit	2 Pairs Alarm			
MP17	Meadow Pipit				Displaying
MP18	Meadow Pipit				Pair Alarm Call
MP19	Meadow Pipit				Displaying
MP20	Meadow Pipit		Displaying		
MP21	Meadow Pipit				Three Alarm Calls
MP22	Meadow Pipit			Alarm Call	
MP23	Meadow Pipit				Alarm Call
MP24	Meadow Pipit				Displaying
RG01	Red Grouse	Displaying			

Based on analysis of all potential breeding activity recorded during Brown & Shepherd Walkover during the 2017 Breeding season (April-July)

Table 6: All Red Grouse Surveys Across the site for the 2015, 2016 & 2017 Seasons

Map Reference No.	Date	Time of observation	Species Name	No. of birds	Habitat and Activity	Comments
	16/03/2015					NO sightings
	17/03/2015					NO sightings
RG01	29/03/2016	14:44:00	Red Grouse	1	FLUSHED	FLUSHED ON APPROACH BEFORE BROADCAST, TWO BIRDS, ONE MALE CALLING BIRD
RG02	29/03/2016	14:44:00	Red Grouse	1	FLUSHED	FLUSHED ON APPROACH BEFORE BROADCAST, TWO BIRDS, SECOND BIRD SILENT.
RG03	29/03/2016	14:50:00	Red Grouse	1	FLUSHED	FLUSHED ON RETURN FROM END OF TRANSECT LINE, POSSIBLE SAME BIRD AS EARLIER. MALE CALL WHILE FLYING AWAY.
	14/03/2017					NO sightings
	15/03/2017					NO sightings

All Data including surveys with no red grouse observations for the 2015, 2016 & 2017 surveys.

Table 7: Monthly distribution of flight activity and observations recorded for the target species during Breeding Raptor Surveys.

Species	Year	Standardised	Apr	May	Jun	Jul	Totals
Buzzard	2015	No. of observations	0	0		0	0
	2016	No. of observations	3	0	1	1	5
	2017	No. of observations	2	4	0	2	8
Golden Eagle	2015	No. of observations	0	0		0	0
	2016	No. of observations	0	0	0	0	0
	2017	No. of observations	0	0	1	2	3
Hen Harrier	2015	No. of observations	0	0		1	1
	2016	No. of observations	2	0	0	0	2
	2017	No. of observations	0	0	0	1	1
Kestrel	2015	No. of observations	0	0		0	0
	2016	No. of observations	0	0	0	0	0
	2017	No. of observations	0	0	1	2	3
Merlin	2015	No. of observations	0	0		0	0
	2016	No. of observations	1	0	0	0	1
	2017	No. of observations	1	0	0	1	2

Table 7: Monthly distribution of flight activity and observations recorded for the target species during Breeding Raptor Surveys.

Species	Year	Standardised	Apr	May	Jun	Jul	Totals
Peregrine Falcon	2015	No. of observations	0	0		0	0
	2016	No. of observations	0	0	0	0	0
	2017	No. of observations	0	1	1	1	3
Sparrowhawk	2015	No. of observations	0	0		0	0
	2016	No. of observations	1	0	0	0	1
	2017	No. of observations	2	1	0	0	3

Based on analysis of all flight activity data and observations. Survey period = April - July for 2016 & 2017. 2015 months surveyed were April, May, and July (Shaded Cells were months not surveyed).

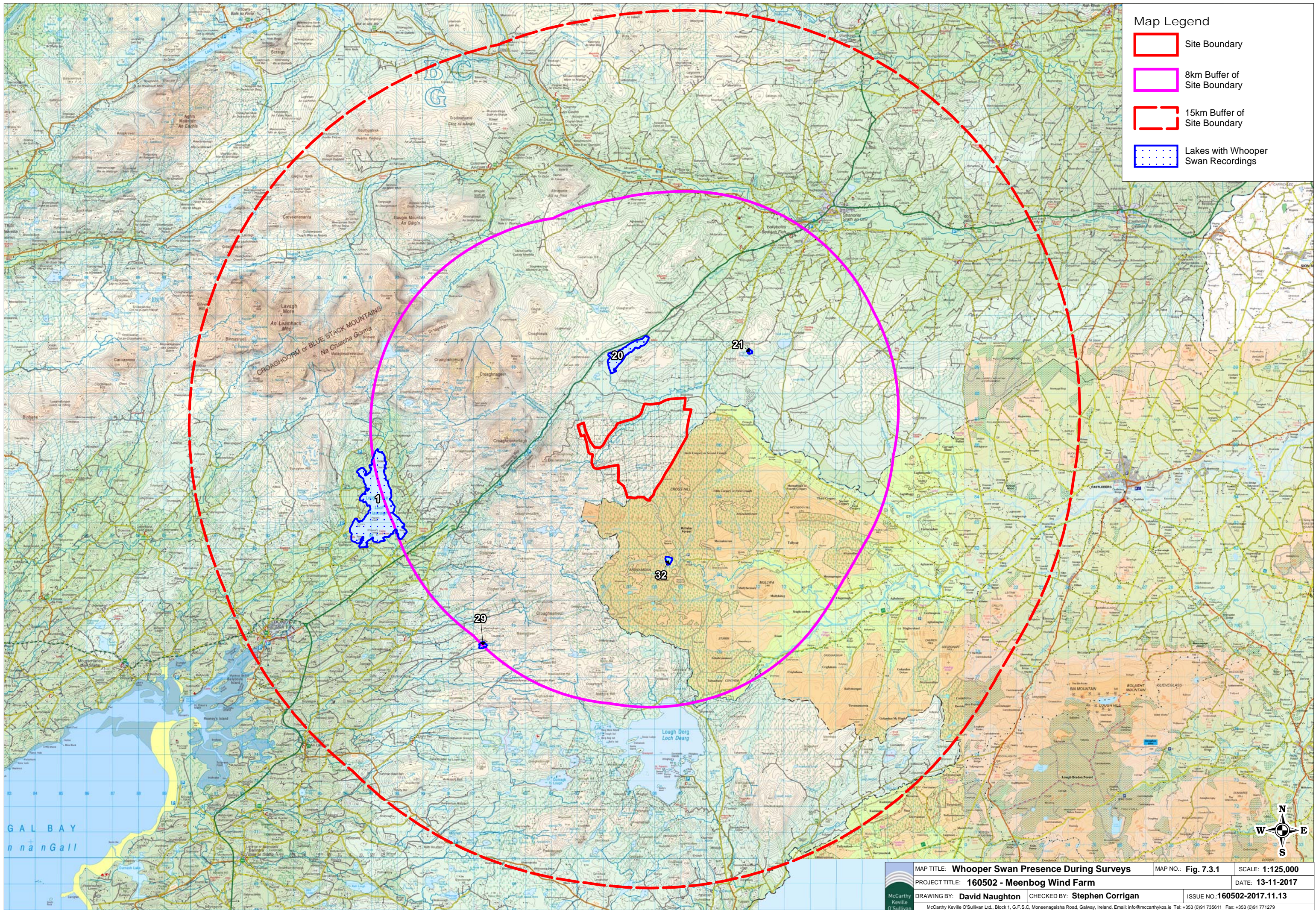
Table 8: Woodcock Surveys

Map Reference No.	Date	Obs no.	Time of observation	Species	No. birds	Habitat and Activity	Comments
WK01	27/05/2016	1	21:10:00	Woodcock	1	WD4, (Conifer plantation)	Roding and calling over mature woodland around vp18
	08/06/2016						NO OBSERVATIONS
	22/06/2017						NO OBSERVATIONS
	24/06/2017						NO OBSERVATIONS
	27/06/2017						NO OBSERVATIONS
	20/06/2017						NO OBSERVATIONS
	21/06/2017						NO OBSERVATIONS
Inclusive of all woodcock surveys including dates when there were no observations of woodcock. Only Observation was on the 27/05/2016 as shown above.							

Table 9: Whooper Swan Observations during 2016 & 2017 Waterfowl Surveys

Location	GIS Location Code	Year	Standardised	Jan	Feb	Mar	Apr	May	Aug	Sep	Oct	Nov	Dec	Totals for each year
Lough Bradan	32	2016	No. of Individuals	Shaded			0	0	0	0	0	0	0	0
		2017	No. of Individuals	0	9	0	0	0	0	0	0	Shaded		
Lough Cuill	29	2016	No. of Individuals	Shaded			0	0	0	0	2	2	0	4
		2017	No. of Individuals	8	0	0	0	0	0	0	Shaded			8
Lough Eske	1	2016	No. of Individuals	Shaded			1	2	0	0	0	0	0	3
		2017	No. of Individuals	0	0	8	0	0	0	0	Shaded			8
Lough Mourne	20	2016	No. of Individuals	Shaded			0	0	0	0	13	0	0	13
		2017	No. of Individuals	0	0	0	0	0	0	0	Shaded			0
Lough Shinnagh	21	2016	No. of Individuals	Shaded			0	0	0	0	0	0	0	0
		2017	No. of Individuals	6	0	0	0	0	0	0	Shaded			6

All Whooper Swan individuals observed during all Waterfowl Surveys. Waterfowl Surveys were only carried out in 2016 and 2017. Shaded cells = Months which were not surveyed. June and July were not surveyed either year. Whooper Swan were only observed on these five lakes.



Map Legend

- Site Boundary
- 8km Buffer of Site Boundary
- 15km Buffer of Site Boundary
- Lakes with Whooper Swan Recordings

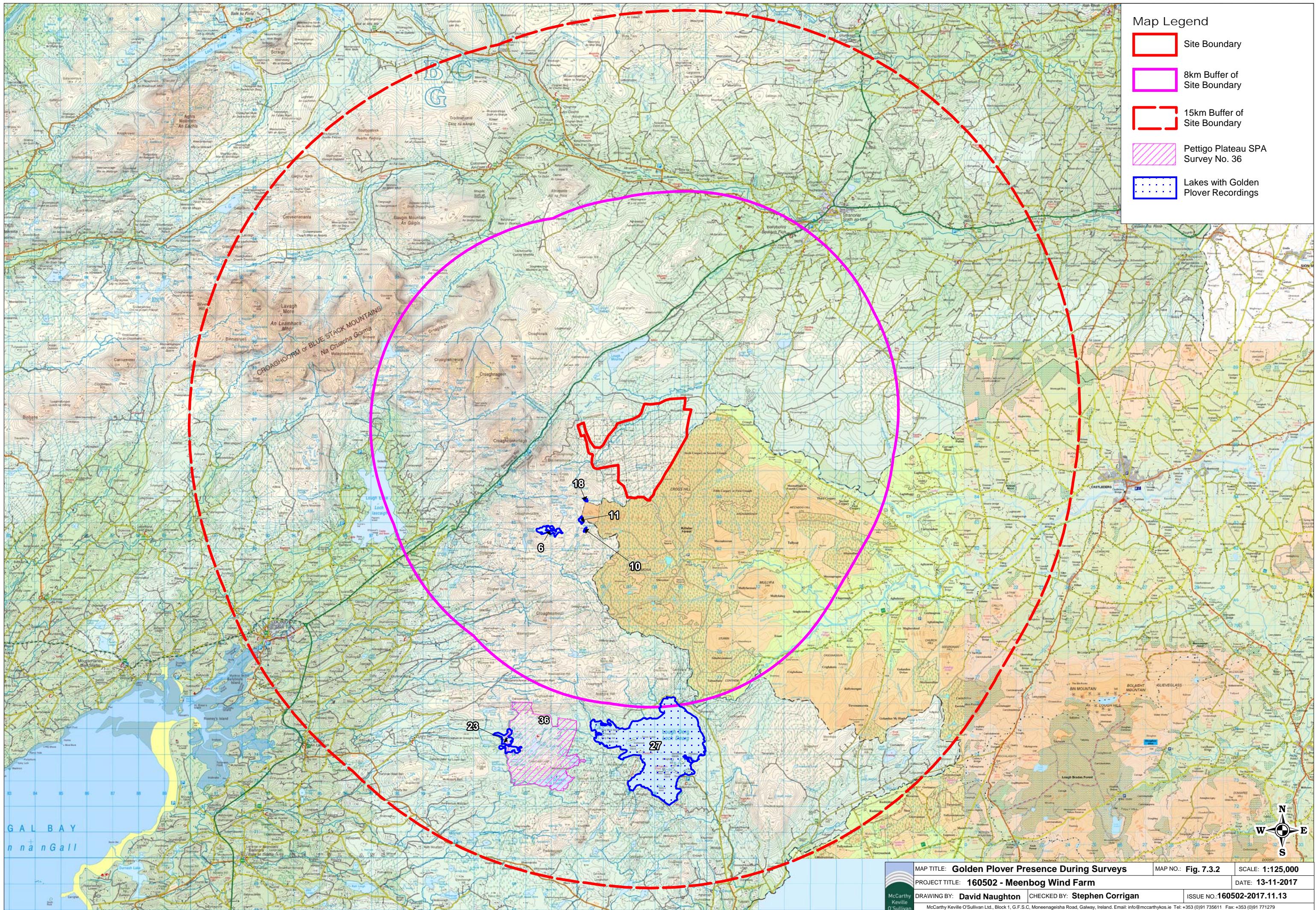


	MAP TITLE: Whooper Swan Presence During Surveys	MAP NO.: Fig. 7.3.1	SCALE: 1:125,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 13-11-2017	
DRAWING BY: David Naughton		CHECKED BY: Stephen Corrigan	
McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthysos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279		ISSUE NO.: 160502-2017.11.13	






Table 10: Golden Plover Observations during Waterfowl Surveys


Location	GIS Location Code	Year	Standardised	Jan	Feb	Mar	Apr	May	Aug	Sep	Oct	Nov	Dec	Totals for each year
Lough Derg	23	2016	No. of Individuals				21	0	0	0	0	0	0	21
		2017	No. of Individuals	0	0	0	0	0	0	0				0
Lough Golagh (North)	6	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	0	0	18	0	0	0	0				18
Lough Golagh (South)	27	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	0	0	0	1	0	0	0				1
Lough Innaghacho	18	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	1	0	0	0	0	0	0				1
Loughnaweelagh	11	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	2	0	0	0	0	0	0				2
Meenabrock Lough	10	2016	No. of Individuals				0	0	0	0	0	0	42	42
		2017	No. of Individuals	14	60	0	0	0	0	0				74
Pettigo Plateau SPA	36	2016	No. of Individuals				1	0	0	0	0	0	0	1
		2017	No. of Individuals	0	0	0	0	0	0	0				0

All Golden Plover individuals observed during all Waterfowl Surveys. Waterfowl Surveys were only carried out in 2016 and 2017. Shaded cells = Months which were not surveyed. June and July were not surveyed either year. Golden Plover were only observed on these seven lakes.



Map Legend

-  Site Boundary
-  8km Buffer of Site Boundary
-  15km Buffer of Site Boundary
-  Pettigo Plateau SPA Survey No. 36
-  Lakes with Golden Plover Recordings

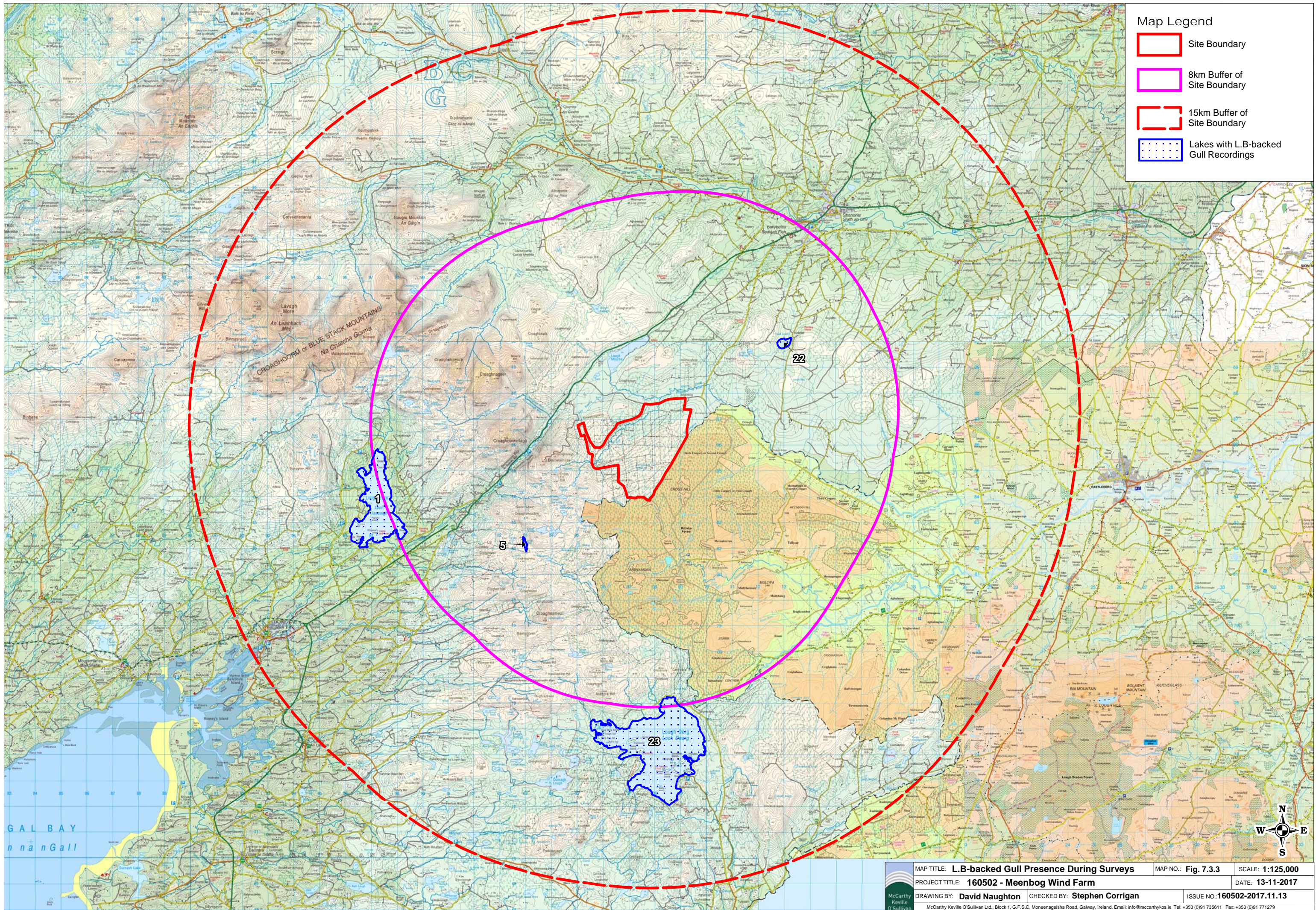
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	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 13-11-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.11.13

McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthysos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279

Table 11: Lesser Black-backed Gull Observations during Waterfowl Surveys

Location	GIS Location Code	Year	Standardised	Jan	Feb	Mar	Apr	May	Aug	Sep	Oct	Nov	Dec	Totals for each year
Lough Eske	1	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	0	0	0	3	7	0	0				10
Lough Slug	5	2016	No. of Individuals				0	10	0	0	0	0	0	10
		2017	No. of Individuals	0	0	0	0	0	0	0				0
Trusk Lough	22	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	0	0	0	0	3	0	0				3
Lough Derg	23	2016	No. of Individuals				0	21	0	0	0	0	0	21
		2017	No. of Individuals	0	0	0	0	0	0	0				0

All Lesser Black-backed Gull individuals observed during all Waterfowl Surveys. Waterfowl Surveys were only carried out in 2016 and 2017. Shaded cells = Months which were not surveyed. June and July were not surveyed either year. Lesser Black-backed Gull were only observed on these four lakes throughout all waterfowl surveys in 2016 and 2017.



Map Legend

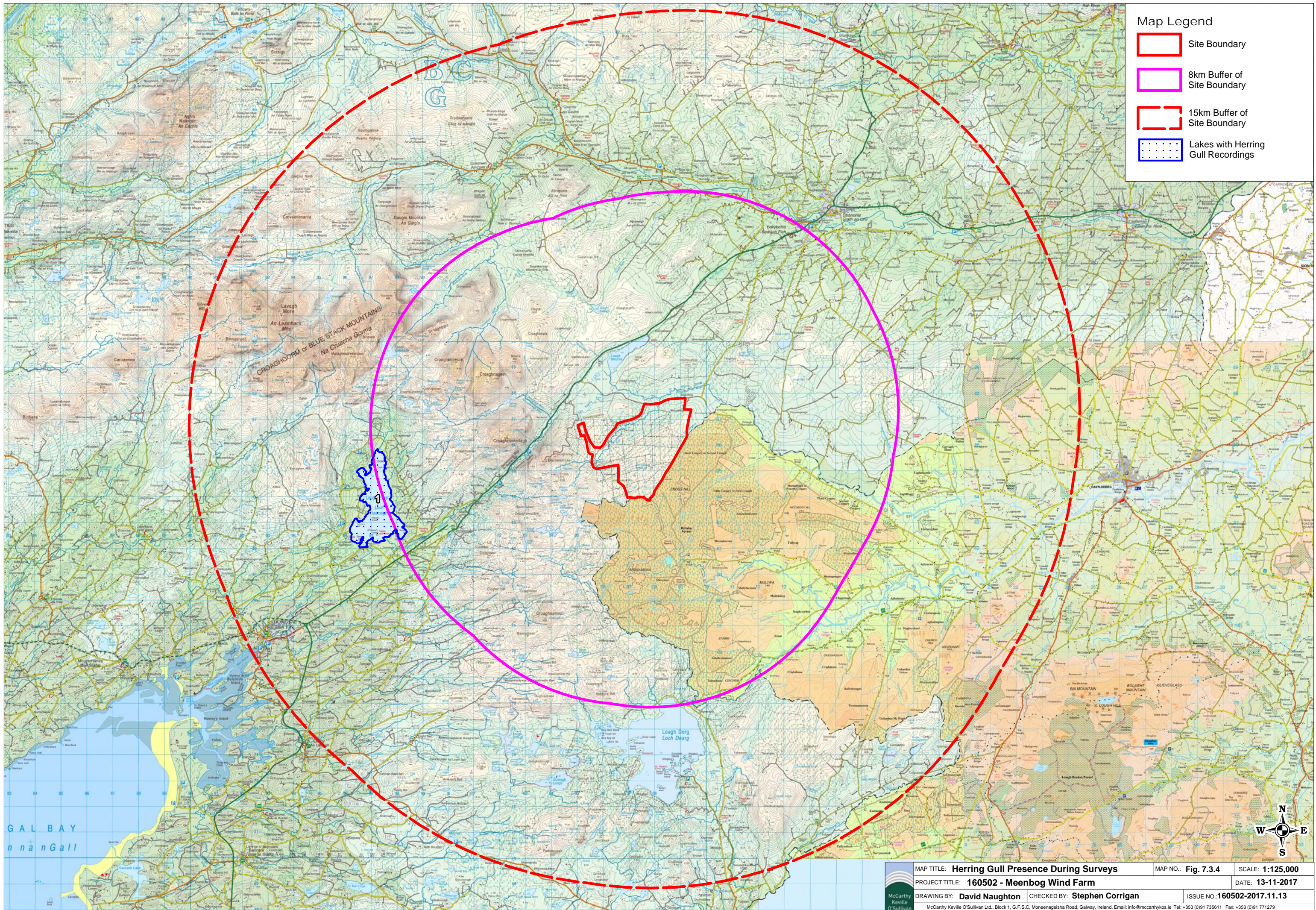
- Site Boundary
- 8km Buffer of Site Boundary
- 15km Buffer of Site Boundary
- Lakes with L.B-backed Gull Recordings

MAP TITLE: L.B-backed Gull Presence During Surveys	MAP NO.: Fig. 7.3.3	SCALE: 1:125,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 13-11-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.11.13
McCarthy Keville O'Sullivan McCarthy Keville O'Sullivan Ltd, Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthys.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279		





Table 12: Herring Gull Observations during Waterfowl Surveys

Location	GIS Location Code	Year	Standardised	Jan	Feb	Mar	Apr	May	Aug	Sep	Oct	Nov	Dec	Totals for each year
Lough Eske	1	2016	No. of Individuals				0	0	0	0	0	0	0	0
		2017	No. of Individuals	0	0	2	0	0	0	0				2

All Herring Gull individuals observed during all Waterfowl Surveys. Waterfowl Surveys were only carried out in 2016 and 2017. Shaded cells = Months which were not surveyed. June and July were not surveyed either year. A Herring Gull pair was observed only on this lake throughout all waterfowl surveys in 2016 and 2017.



Map Legend

-  Site Boundary
-  8km Buffer of Site Boundary
-  15km Buffer of Site Boundary
-  Lakes with Herring Gull Recordings


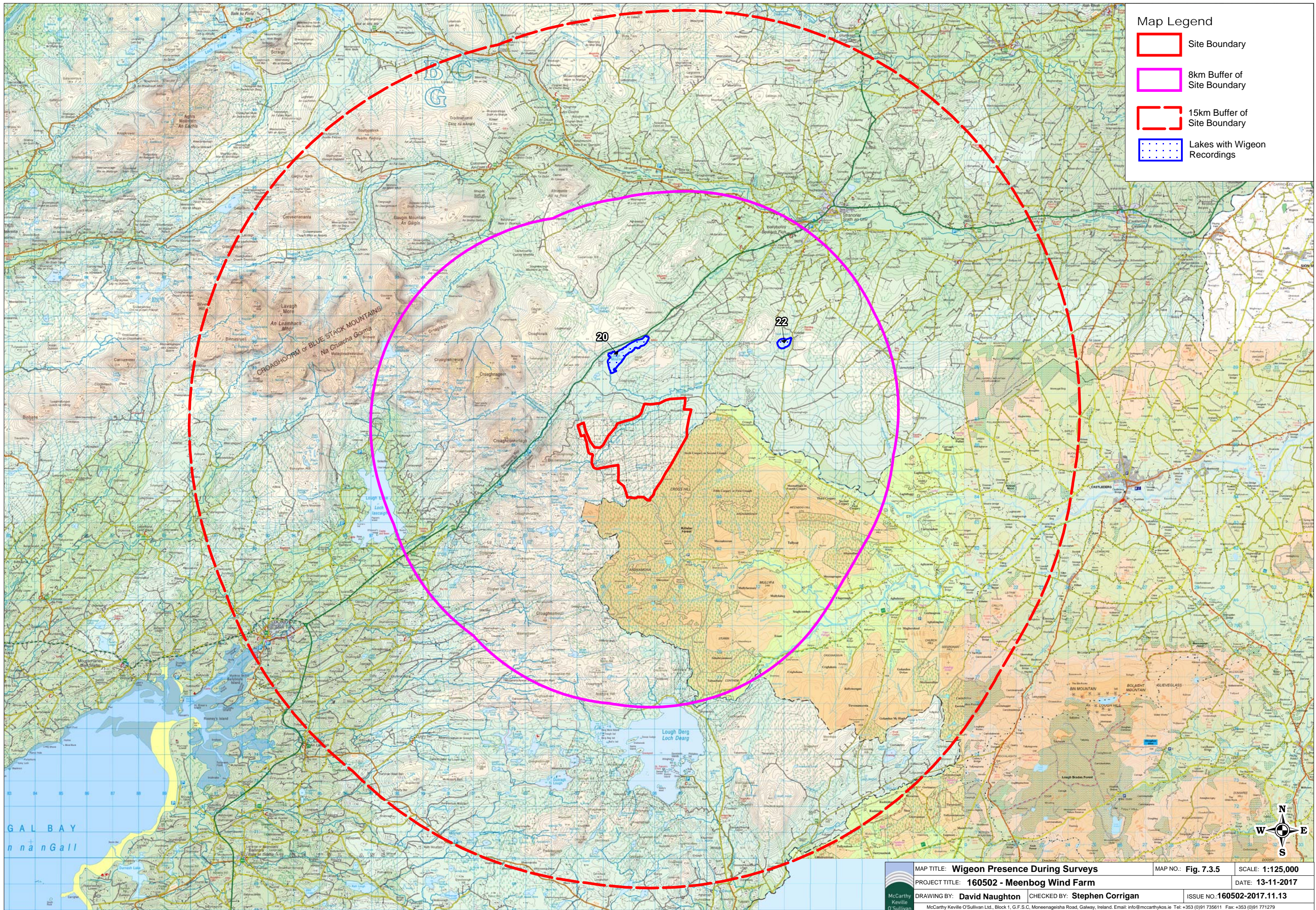
	MAP TITLE: Herring Gull Presence During Surveys	MAP NO.: Fig. 7.3.4	SCALE: 1:125,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 13-11-2017	
DRAWING BY: David Naughton		CHECKED BY: Stephen Corrigan	
McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthysos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279		ISSUE NO.: 160502-2017.11.13	




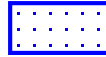
Table 13: Wigeon Observations during Waterfowl Surveys


Location	GIS Location Code	Year	Standardised	Jan	Feb	Mar	Apr	May	Aug	Sep	Oct	Nov	Dec	Totals for each year
Lough Mourne	20	2016	No. of Individuals				0	0	0	0	2	0	0	2
		2017	No. of Individuals	0	0	0	0	0	0	0				0
Trusk Lough	22	2016	No. of Individuals				0	0	0	1	0	0	0	1
		2017	No. of Individuals	0	0	0	0	0	0	0				0

All Wigeon individuals observed during all Waterfowl Surveys. Waterfowl Surveys were only carried out in 2016 and 2017. Shaded cells = Months which were not surveyed. June and July were not surveyed either year. Wigeon were only observed on these two lakes throughout all waterfowl surveys in 2016 and 2017.



Map Legend

-  Site Boundary
-  8km Buffer of Site Boundary
-  15km Buffer of Site Boundary
-  Lakes with Wigeon Recordings

	MAP TITLE: Wigeon Presence During Surveys	MAP NO.: Fig. 7.3.5	SCALE: 1:125,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 13-11-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.11.13

McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthysos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279