

# Oweninny Wind Farm

## Oweninny Environmental Impact Statement Appendix 9

### Terrestrial Ecology



**APPENDIX A.**

**VEGETATION DESCRIPTIONS FOR TURBINE  
AND SUBSTATION LOCATIONS**



Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
1	Cutover Bog (PB4)	20	<i>Juncus effusus</i>	<i>Polytrichum commune</i> , <i>Juncus bulbosus</i> , <i>Eriophorum angustifolium</i> , <i>Molinia caerulea</i> , <i>Campylopus introflexus</i> .	Bog remnant close
2	Cutover Bog (PB4)	80	<i>Eriophorum angustifolium</i> , <i>Juncus effusus</i>	<i>Juncus bulbosus</i> , <i>Campylopus introflexus</i>	Open water close
3	Cutover Bog (PB4)	99	<i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i>	<i>Juncus bulbosus</i>	
4	Cutover Bog (PB4)	60	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i> ,	<i>Juncus bulbosus</i> , <i>Campylopus introflexus</i>	
5	Cutover Bog (PB4)	80	<i>Polytrichum commune</i> , <i>Juncus effusus</i>	<i>Juncus bulbosus</i> , <i>Agrostis sp.</i> , <i>Poa annua</i>	
6	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Hypnum jutlandicum</i> , <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> , <i>Rubus fruticosus</i> , <i>Dryopteris dilatata</i> .	
7	Cutover Bog (PB4)	90	<i>Eriophorum angustifolium</i>	<i>Campylopus introflexus</i>	Open water close
8	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Molinia caerulea</i>	<i>Pinus contorta</i> , <i>Calluna vulgaris</i> , <i>Polytrichum commune</i> , <i>Hypnum jutlandicum</i> .	
9	Cutover Bog (PB4)	10	<i>Juncus effusus</i>	<i>Agrostis sp.</i> , <i>Holcus lanatus</i> , <i>Salix aurita</i> , <i>Eriophorum angustifolium</i> , <i>Polytrichum commune</i> , <i>Sphagnum palustre</i>	
10	Cutover Bog (PB4)	95	<i>Eriophorum angustifolium</i> , <i>Juncus bulbosus</i>	<i>Campylopus introflexus</i>	
11	Cutover Bog (PB4)	70	<i>Juncus effusus</i>	<i>Pinus contorta</i> , <i>Juncus bulbosus</i> , <i>Eriophorum angustifolium</i> , <i>Polytrichum commune</i>	
12	Cutover Bog (PB4)	90	<i>Eriophorum angustifolium</i> , <i>Juncus effusus</i>	<i>Campylopus introflexus</i> , <i>Polytrichum commune</i>	Open water close
13	Cutover Bog (PB4)	10	<i>Juncus effusus</i> , <i>Sphagnum cuspidatum</i>	<i>Polytrichum commune</i> , <i>Eriophorum angustifolium</i>	Pooling shallow water
14	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Eriophorum angustifolium</i> , <i>Holcus lanatus</i> , <i>Campylopus introflexus</i> , <i>Aulocomium palustris</i> , <i>Salix aurita</i>	
15	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Aulocomium palustris</i> , <i>Sphagnum capillifolium</i> , <i>Holcus lanatus</i> , <i>Salix aurita</i> , <i>Sphagnum palustre</i> .	
16	Cutover Bog (PB4)	90	<i>Juncus acutiflorus</i> , <i>Eriophorum angustifolium</i>	<i>Triglochin palustris</i> , <i>Polytrichum commune</i>	

Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
17	Cutover Bog (PB4)	70	<i>Eriophorum angustifolium</i> , <i>Triglochin palustris</i>	<i>Juncus effusus</i> , <i>Juncus bulbosus</i>	
18	Cutover Bog (PB4)	50	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Sphagnum recurvum</i> , <i>Polytrichum commune</i> , <i>Juncus bulbosus</i>	
19	Cutover Bog (PB4)	95	<i>Juncus bulbosus</i> , <i>Carex panicea</i>	<i>Pinus contorta</i> , <i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i> .	Bog remnant close
20	Cutover Bog (PB4)	90	<i>Juncus effusus</i> , <i>Juncus bulbosus</i>	<i>Polytrichum commune</i> , <i>Pinus contorta</i> , <i>Eriophorum angustifolium</i> , <i>Dryopteris dilatata</i> .	Open water close
21	Cutover Bog (PB4)	80	<i>Eriophorum angustifolium</i> , <i>Juncus effusus</i>	<i>Juncus bulbosus</i> , <i>Polytrichum commune</i> , <i>Campylopus introflexus</i>	
22	Cutover Bog (PB4)	90	<i>Juncus effusus</i> , <i>Juncus bulbosus</i>	<i>Polytrichum commune</i> , <i>Campylopus introflexus</i> , <i>Eriophorum angustifolium</i>	
23	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Dryopteris dilatata</i> , <i>Agrostis</i> sp., <i>Molinia caerulea</i> , <i>Salix aurita</i> , <i>Sphagnum palustre</i> .	
24	Cutover Bog (PB4)	20	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Campylopus introflexus</i> , <i>Polytrichum commune</i> , <i>Pinus contorta</i> , <i>Hypnum jutlandicum</i> .	
25	Cutover Bog (PB4)	50	<i>Juncus effusus</i>	<i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i> , <i>Juncus bulbosus</i> , <i>Hypnum jutlandicum</i>	Close to track
26	Cutover Bog (PB4)	10	<i>Campylopus introflexus</i>	<i>Eriophorum angustifolium</i> , <i>Juncus squarrosus</i> , <i>Juncus bulbosus</i>	
27	Cutover Bog (PB4)	80	<i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i>	<i>Juncus effusus</i> , <i>Juncus bulbosus</i> , <i>Polytrichum commune</i>	
28	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Dryopteris dilatata</i> , <i>Hypnum jutlandicum</i> , <i>Rhytidiadelphus squarrosus</i> , <i>Plagiothecium undulatum</i> , <i>Rubus fruticosus</i> .	
29	Cutover Bog (PB4)	50	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Agrostis</i> sp., <i>Polytrichum commune</i> , <i>Molinia caerulea</i> , <i>Eriophorum vaginatum</i> , <i>Campylopus introflexus</i>	
30	Cutover Bog (PB4)	<5	<i>Juncus effusus</i>	<i>Eriophorum angustifolium</i> , <i>Hypnum jutlandicum</i> , <i>Sphagnum subnitens</i> , <i>Calluna vulgaris</i> , <i>Sphagnum cuspidatum</i> .	

Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
31	Cutover Bog (PB4)	60	<i>Eriophorum angustifolium</i> , <i>Juncus effusus</i>	<i>Polytrichum commune</i>	
32	Cutover Bog (PB4)	70	<i>Triglochin palustris</i>	<i>Juncus effusus</i> , <i>Juncus bulbosus</i> , <i>Eriophorum angustifolium</i>	
33	Cutover Bog (PB4)	95	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> , <i>Juncus bulbosus</i> , <i>Eriophorum vaginatum</i>	
34	Cutover Bog (PB4)	<5	<i>Juncus effusus</i>	<i>Senecio jacobea</i> , <i>Rubus fruticosus</i> , <i>Holcus lanatus</i> , <i>Calliergonella cuspidata</i> , <i>Cirsium palustre</i> , <i>Anthoxanthum odoratum</i>	
35	Cutover Bog (PB4)	95	<i>Juncus effusus</i> , <i>Juncus bulbosus</i>	<i>Campylopus introflexus</i> , <i>Polytrichum commune</i> , <i>Dryopteris dilatata</i>	
36	Cutover Bog (PB4)	60	<i>Juncus effusus</i>	<i>Salix aurita</i> , <i>Dryopteris dilatata</i> , <i>Eriophorum angustifolium</i> , <i>Holcus lanatus</i>	Bog remnant close
37	Cutover Bog (PB4)	10	<i>Molinia caerulea</i>	<i>Calluna vulgaris</i> , <i>Succisa pratensis</i> , <i>Salix aurita</i> , <i>Erica tetralix</i>	
38	Cutover Bog (PB4)	70	<i>Eriophorum angustifolium</i>	<i>Juncus articulatus</i> , <i>Carex viridula</i> subsp. <i>oedocarpa</i> , <i>Juncus bulbosus</i>	Bog remnant close
39	Cutover Bog (PB4)	80	<i>Juncus effusus</i>	<i>Juncus bulbosus</i> , <i>Polytrichum commune</i> , <i>Campylopus introflexus</i>	
40	Cutover Bog (PB4)	70	<i>Juncus effusus</i> , <i>Campylopus introflexus</i>	<i>Polytrichum commune</i> , <i>Salix cinerea</i> , <i>Juncus bulbosus</i> , <i>Eriophorum angustifolium</i>	
41	Cutover Bog (PB4)	<5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Sphagnum fallax</i> , <i>Sphagnum cuspidatum</i> , <i>Carex nigra</i> , <i>Hypnum jutlandicum</i> , <i>Aulacomium palustris</i>	
42	Cutover Bog (PB4)	<3	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Salix aurita</i> , <i>Dryopteris dilatata</i> , <i>Sphagnum fallax</i> , <i>Epilobium angustifolium</i> , <i>Calluna vulgaris</i>	Bog remnant close
43	Cutover Bog (PB4)	50	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> , <i>Campylopus introflexus</i> , <i>Polytrichum commune</i> , <i>Dryopteris dilatata</i>	
44	Cutover Bog (PB4)	40	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Polytrichum commune</i> , <i>Calluna vulgaris</i> , <i>Juncus bulbosus</i> , <i>Campylopus introflexus</i>	
45	Cutover Bog (PB4)	<3	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Hypnum jutlandicum</i> , <i>Holcus lanatus</i> , <i>Dryopteris dilatata</i> .	

Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
46	Cutover Bog (PB4)	20	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Eriophorum angustifolium</i> , <i>Calluna vulgaris</i> , <i>Sphagnum cuspidatum</i> , <i>Molinia caerulea</i> , <i>Aulocomium palustre</i> , <i>Agrostis</i> sp., <i>Molinia caerulea</i> , <i>Hypochoeris radicata</i> , <i>Polytrichum commune</i> , <i>Eriophorum angustifolium</i> , <i>Scleropodium purum</i>	
47	Cutover Bog (PB4)	10	<i>Juncus effusus</i>	<i>Molinia caerulea</i> , <i>Calluna vulgaris</i> , <i>Potentilla erecta</i> , <i>Hypnum jutlandicum</i>	
48	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i>	<i>Juncus bulbosus</i> , <i>Campylopus introflexus</i> , <i>Juncus effusus</i> , <i>Agrostis</i> sp., <i>Molinia caerulea</i> , <i>Juncus squarrosus</i>	
49	Cutover Bog (PB4)	80	<i>Eriophorum angustifolium</i> , <i>Juncus effusus</i>	<i>Juncus bulbosus</i> , <i>Juncus effusus</i> , <i>Agrostis</i> sp., <i>Molinia caerulea</i> , <i>Juncus squarrosus</i>	
50	Cutover Bog (PB4)	70	<i>Eriophorum angustifolium</i>	<i>Juncus bulbosus</i> , <i>Juncus effusus</i> , <i>Campylopus introflexus</i>	Bog remnant close
51	Cutover Bog (PB4)	95	<i>Juncus bulbosus</i>	<i>Campylopus introflexus</i> , <i>Eriophorum angustifolium</i>	
52	Cutover Bog (PB4)	80	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Juncus bulbosus</i> , <i>Molinia caerulea</i> , <i>Holcus lanatus</i>	
53	Cutover Bog (PB4)	65	<i>Juncus effusus</i> , <i>Campylopus introflexus</i>	<i>Polytrichum commune</i> , <i>Juncus bulbosus</i> , <i>Holcus lanatus</i>	
54	Cutover Bog (PB4)	10	<i>Juncus bulbosus</i> , <i>Sphagnum cuspidatum</i>	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	
55	Cutover Bog (PB4)	70	<i>Polytrichum commune</i> , <i>Juncus bulbosus</i>	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i> , <i>Carex echinata</i>	
56	Cutover Bog (PB4)	<3	<i>Juncus effusus</i>	<i>Eriophorum angustifolium</i> , <i>Typha latifolia</i> , <i>Sphagnum cuspidatum</i> , <i>Juncus bulbosus</i>	
57	Cutover Bog (PB4)	<3	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Molinia caerulea</i> , <i>Polytrichum commune</i> , <i>Potamogeton polygonifolius</i> , <i>Salix</i> sp.	
58	Cutover Bog (PB4)	0	<i>Molinia caerulea</i> , <i>Eriophorum angustifolium</i>	<i>Calluna vulgaris</i> , <i>Potentilla erecta</i> , <i>Juncus effusus</i> , <i>Eriophorum angustifolium</i> , <i>Agrostis</i> sp., <i>Polytrichum commune</i> , <i>Hypnum jutlandicum</i> , <i>Rubus fruticosus</i> , <i>Molinia caerulea</i>	Bog remnant close
59	Cutover Bog (PB4)	40	<i>Juncus effusus</i>	<i>Eriophorum angustifolium</i> , <i>Potamogeton polygonifolius</i> , <i>Calluna vulgaris</i> , <i>Juncus</i>	
60	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i> , <i>Pinus contorta</i>		
61	Cutover Bog (PB4)	90	<i>Juncus effusus</i>		



Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
				<i>bulbosus</i>	
62	Cutover Bog (PB4)	90	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> , <i>Molinia caerulea</i> , <i>Campylopus introflexus</i>	
63	Cutover Bog (PB4)	80	<i>Eriophorum angustifolium</i>	<i>Molinia caerulea</i> , <i>Polytrichum commune</i> , <i>Calluna vulgaris</i> , <i>Erica tetralix</i> , <i>Campylopus introflexus</i> , <i>Juncus effusus</i>	
64	Cutover Bog (PB4)	98	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> , <i>Molinia caerulea</i>	Bog remnant close
65	Cutover Bog (PB4)	10	<i>Eriophorum angustifolium</i> , <i>Calluna vulgaris</i>	<i>Molinia caerulea</i> , <i>Hypnum jutlandicum</i> , <i>Juncus effusus</i> , <i>Sphagnum capillifolium</i>	Bog remnant close
66	Cutover Bog (PB4)	<3	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Hylocomium splendens</i> , <i>Dryopteris dilatata</i> , <i>Holcus lanatus</i> , <i>Rumex acetosa</i> , <i>Agrostis</i> sp., <i>Aulacomium palustris</i>	
67	Cutover Bog (PB4)	80	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> , <i>Juncus bulbosus</i> , <i>Campylopus introflexus</i> , <i>Polytrichum commune</i>	
68	Cutover Bog (PB4)	10	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Juncus bulbosus</i> , <i>Pinus contorta</i> , <i>Salix</i> sp., <i>Cladonia portentosa</i>	
69	Cutover Bog (PB4)	60	<i>Calluna vulgaris</i> , <i>Polytrichum commune</i>	<i>Juncus effusus</i> , <i>Juncus squarrosus</i> , <i>Agrostis</i> sp., <i>Holcus lanatus</i>	
70	Cutover Bog (PB4)	35	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Sphagnum fallax</i> , <i>Sphagnum cuspidatum</i> , <i>Eriophorum angustifolium</i> , <i>Hypnum jutlandicum</i>	
71	Cutover Bog (PB4)	10	<i>Juncus effusus</i> , <i>Agrostis</i> sp.	<i>Polytrichum commune</i> , <i>Calluna vulgaris</i> , <i>Pinus contorta</i> , <i>Hypnum jutlandicum</i> , <i>Molinia caerulea</i>	
72	Cutover Bog (PB4)	70	<i>Eriophorum angustifolium</i> , <i>Agrostis</i> sp.	<i>Juncus effusus</i> , <i>Campylopus introflexus</i> , <i>Pinus contorta</i> , <i>Carex viridula</i> subsp. <i>oedocarpa</i>	Bog remnant close
73	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i> , <i>Pinus contorta</i>		
74	Cutover Bog (PB4)	30	<i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i>	<i>Calluna vulgaris</i> , <i>Juncus squarrosus</i> , <i>Molinia caerulea</i> , <i>Trichophorum cespitosum</i>	
75	Cutover Bog (PB4)	95	<i>Eriophorum angustifolium</i> , <i>Molinia caerulea</i>	<i>Juncus bulbosus</i> , <i>Calluna vulgaris</i> , <i>Campylopus introflexus</i> , <i>Potentilla erecta</i>	
76	Cutover Bog (PB4)	95	<i>Eriophorum angustifolium</i>	<i>Juncus bulbosus</i> , <i>Campylopus introflexus</i> ,	

Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
77	Cutover Bog (PB4)	98	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> <i>Juncus bulbosus</i>	Bog remnant close
78	Cutover Bog (PB4)	80	<i>Juncus articulatus</i> , <i>Juncus effusus</i>	<i>Triglochin palustris</i> , <i>Eriophorum angustifolium</i> , <i>Juncus bulbosus</i>	
79	Cutover Bog (PB4)	98	<i>Eriophorum angustifolium</i>	<i>Juncus bulbosus</i> , <i>Molinia caerulea</i>	Bog remnant close
80	Cutover Bog (PB4)	60	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Juncus bulbosus</i> , <i>Campylopus introflexus</i> , <i>Calluna vulgaris</i> , <i>Polytrichum commune</i>	
81	Cutover Bog (PB4)	75	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Eriophorum angustifolium</i> , <i>Pinus contorta</i> , <i>Dryopteris dilatata</i> , <i>Calluna vulgaris</i> , <i>Epilobium angustifolium</i>	
82	Cutover Bog (PB4)	<3	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Polytrichum commune</i> , <i>Dryopteris dilatata</i> , <i>Campylopus introflexus</i> , <i>Holcus lanatus</i> , <i>Juncus bulbosus</i>	
83	Cutover Bog (PB4)	30	<i>Eriophorum angustifolium</i>	<i>Juncus effusus</i> , <i>Calluna vulgaris</i> , <i>Pinus contorta</i> , <i>Polytrichum commune</i> , <i>Sphagnum subnitens</i> , <i>Hypnum jutlandicum</i>	
84	Cutover Bog (PB4)	5	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Eriophorum angustifolium</i> , <i>Rubus fruticosus</i> , <i>Agrostis sp.</i> , <i>Calluna vulgaris</i> , <i>Pinus contorta</i>	
85	Cutover Bog (PB4)	98	<i>Juncus bulbosus</i>	<i>Eriophorum angustifolium</i> , <i>Campylopus atrovirens</i>	
86	Cutover Bog (PB4)	80	<i>Juncus bulbosus</i>	<i>Molinia caerulea</i> , <i>Juncus effusus</i> , <i>Calluna vulgaris</i> , <i>Eriophorum angustifolium</i>	
87	Cutover Bog (PB4)	90	<i>Juncus effusus</i>	<i>Juncus bulbosus</i> , <i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i> , <i>Polytrichum commune</i>	
88	Cutover Bog (PB4)	20	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Calluna vulgaris</i> , <i>Campylopus introflexus</i> , <i>Juncus squarrosus</i> , <i>Polytrichum commune</i> , <i>Dryopteris dilatata</i>	
89	Cutover Bog (PB4)	20	<i>Juncus effusus</i> , <i>Sphagnum cuspidatum</i>	<i>Eriophorum angustifolium</i> , <i>Campylopus atrovirens</i> , <i>Calluna vulgaris</i> , <i>Juncus bulbosus</i>	
90	Cutover Bog (PB4)	90	<i>Calluna vulgaris</i>	<i>Eriophorum angustifolium</i> , <i>Molinia caerulea</i>	

Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
91	Cutover Bog (PB4)	60	<i>Juncus effusus</i> , <i>Polytrichum commune</i>	<i>Juncus bulbosus</i> , <i>Eriophorum angustifolium</i> , <i>Campylopus introflexus</i> , <i>Dryopteris dilatata</i>	
92	Cutover Bog (PB4)	60	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Campylopus introflexus</i> , <i>Juncus bulbosus</i> , <i>Polytrichum commune</i>	
93	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i> , <i>Pinus contorta</i>	<i>Molinia caerulea</i> , <i>Calluna vulgaris</i> , <i>Potentilla erecta</i> , <i>Sphagnum capillifolium</i> , <i>Cladonia portentosa</i>	
94	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i>		
95	Cutover Bog (PB4)	10	<i>Juncus effusus</i>	<i>Polytrichum commune</i> , <i>Salix aurita</i> , <i>Pinus contorta</i> , <i>Aulocomium palustris</i> , <i>Carex panicea</i>	Brown moss veg in wet cutaway drains to the east
96	Cutover Bog (PB4)	99	<i>Campylopus introflexus</i>	<i>Juncus bulbosus</i>	
97	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i> , <i>Pinus contorta</i>		
98	Wet grassland (GS4)	0	<i>Juncus effusus</i> , <i>Molinia caerulea</i>	<i>Juncus articulatus</i> , <i>Carex viridula</i> subsp. <i>oedocarpa</i> , <i>Calliergonella cuspidata</i> , <i>Salix aurita</i> , <i>Cirsium palustre</i>	
99	Cutover Bog (PB4)	20	<i>Calluna vulgaris</i>	<i>Molinia caerulea</i> , <i>Pinus contorta</i> , <i>Potentilla erecta</i> , <i>Juncus squarrosus</i> , <i>Hypnum jutlandicum</i>	
100	Cutover Bog (PB4)	40	<i>Calluna vulgaris</i> , <i>Juncus effusus</i>	<i>Pinus contorta</i> , <i>Molinia caerulea</i> , <i>Polytrichum commune</i> , <i>Agrostis</i> sp., <i>Eriophorum angustifolium</i>	Bog remnant close
101	Cutover Bog (PB4)	5	<i>Molinia caerulea</i>	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i> , <i>Juncus bulbosus</i> , <i>Carex echinata</i> , <i>Calluna vulgaris</i> , <i>Sphagnum palustre</i>	Petrifying spring to the south-east
102	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i> , <i>Pinus contorta</i>		
103	Conifer plantation (WD4)	<5	<i>Picea sitchensis</i> , <i>Pinus contorta</i>		
104	Cutover Bog (PB4)	50	<i>Juncus effusus</i> , <i>Eriophorum angustifolium</i>	<i>Juncus bulbosus</i> , <i>Juncus articulatus</i> , <i>Anthoxanthum odoratum</i> , <i>Agrostis</i> sp., <i>Cirsium palustre</i> , <i>Leontodon autumnalis</i>	
105	Cutover Bog (PB4)	70	<i>Juncus effusus</i>	<i>Calluna vulgaris</i> , <i>Agrostis</i> sp., <i>Rubus fruticosus</i> agg.	
106	Cutover Bog (PB4)	60	<i>Juncus effusus</i> , <i>Agrostis</i> sp.	<i>Calluna vulgaris</i> , <i>Carex panicea</i> , <i>Eriophorum angustifolium</i> , <i>Juncus</i>	

Turbine No.	Dominant habitat	% Bare peat cover	Main species in vegetation	Additional species present	Comments
				<i>bulbosus, Campylopus introflexus</i>	
107	Cutover Bog (PB4)	20	<i>Juncus effusus, Polytrichum commune</i>	<i>Salix aurita, Potentilla erecta Agrostis sp., Rubus fruticosus agg., Eriophorum angustifolium, Dryopteris dilatata</i>	
108	Conifer plantation (WD4)	<5	<i>Picea sitchensis, Pinus contorta</i>		
109	Cutover Bog (PB4)	99	<i>Juncus effusus</i>	<i>Eriophorum angustifolium</i>	
110	Cutover Bog (PB4)	90	<i>Eriophorum angustifolium</i>	<i>Molinia caerulea, Juncus effusus, Juncus bulbosus, Eriophorum vaginatum</i>	
111	Cutover Bog (PB4)	30	<i>Juncus effusus, Polytrichum commune</i>	<i>Agrostis sp., Pinus contorta, Juncus squarrosus</i>	
112	Conifer plantation (WD4)	<5	<i>Picea sitchensis, Pinus contorta</i>		
Substation 1	Cutover Bog (PB4)	10	<i>Juncus effusus, Polytrichum commune</i>	<i>Eriophorum angustifolium, Calluna vulgaris, Juncus bulbosus, Agrostis sp., Juncus squarrosus, Holcus lanatus</i>	Area generally dominated by surface gravels
Substation 2	Cutover Bog (PB4)	15	<i>Juncus effusus, Polytrichum commune</i>	<i>Campylopus introflexus, Holcus lanatus, Aira praecox, Dryopteris dilatata</i>	Area generally dominated by surface gravels
Substation. 3	Cutover Bog (PB4)	30	<i>Juncus effusus, Eriophorum angustifolium</i>	<i>Calluna vulgaris, Campylopus introflexus, Pinus contorta, Polytrichum commune, Agrostis sp., Juncus bulbosus</i>	
Substation 4	Cutover Bog (PB4)	95	<i>Calluna vulgaris, Molinia caerulea</i>	<i>Agrostis sp., Carex viridula subsp. oedocarpa, Holcus lanatus, Juncus articulatus</i>	
Visitor centre	Cutover Bog (PB4)	20	<i>Juncus effusus, Eriophorum angustifolium</i>	<i>Polytrichum commune, Sphagnum cuspidatum, Juncus bulbosus, Pinus contorta</i>	
O & M building	Cutover Bog (PB4)	20	<i>Juncus effusus, Polytrichum commune</i>	<i>Eriophorum angustifolium, Calluna vulgaris, Juncus squarrosus, Agrostis sp., Rumex acetosella</i>	
Borrow pit	Cutover Bog (PB4)				
Peat storage area	Cutover Bog (PB4)				

## **APPENDIX B. ECOLOGICAL DESCRIPTIONS/RANKINGS OF REMNANT BOG AREAS AT OWENINNY**

### **Introduction**

The Oweninny site contains a number of remnant blanket bog areas scattered throughout the cutover bog. Most of these remnants are dominated by lowland blanket bog habitat though small areas of heath, fen and grassland also occur occasionally within them. The size and ecological quality/value of these areas varies greatly and many were drained in recent decades. Most of the drainage networks in these areas have been recently blocked (as part of site restoration plan) with wide peat dams in order to restore their hydrology.

A walkover survey of most of the remnant bog areas was conducted in October 2012 to assess their ecological quality and condition. In addition, all of the areas have been ranked in accordance with a five-point scale outlined by the National Roads Authority (2009), i.e. International, National, County, Local (High value), Local (Lower value) importance.

In the following section the main habitat/vegetation features of each surveyed remnant area is briefly outlined. The remnant areas are numbered from 1 to 46 and their locations are indicated in Figure 9.2. A summary table is presented below.

The majority of the remnant areas described are considered to be of Local Importance, however there are a number which are of County and International Importance.



Remnant Area	Description	Approximate area	Ecological Importance
1	A large area of lowland blanket bog to the north of the Oweninny river which is of high ecological value. Known locally as O'Boyle's Bog. The bog vegetation is generally dominated by <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> and <i>Erica tetralix</i> with numerous pool areas/small dystrophic lake systems present, in the centre of the area. Much of the marginal bog in this area has been drained in the past however most of the drains have been recently blocked with peat dams. The overall quality of this area will improve in the future as drain-blocking improves the hydrology of the area. The Knockmoyle Nature Reserve adjoins along the eastern edge of the remnant.	317 ha	County Importance
2	This narrow fringe of remnant blanket bog lies on the southern banks of the Oweninny river. Most of the area is less than 70 metres wide with <i>Juncus effusus</i> wet grassland occurring along the river margins. To the south there is extensive Bord na Móna cutaway. Vegetation is generally dominated by <i>Molinia caerulea</i> with occasional small pool areas.	10.8 ha	Local (Lower value) importance
3	This remnant comprises a narrow fringe of bog which lies along the northern banks of the Oweninny river. Drained bog lies to the north of the remnant. Much of the area was subject to peat-cutting in the past and now the area is generally dried out with <i>Molinia caerulea</i> the dominant species present.	2.7 ha	Local (Lower value) importance
4	This small remnant area is completely surrounded by cutaway blanket bog (to the south and east) and coniferous plantation (to the north and west). Vegetation is generally dominated by <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> with a low Sphagnum cover. The drains have been blocked recently.	2.6 ha	Local (Lower value) importance
5	A small remnant area which is completely surrounded by cutaway blanket bog and coniferous plantation. Vegetation is generally dominated by <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> with a low Sphagnum cover. The drains have been blocked recently. Very similar in size and composition to remnant area No. 4.	2.7 ha	Local (Lower value) importance
6	This long and very narrow strip of remnant blanket bog habitat lies between a road and extensive cutaway blanket bog. Vegetation is generally dominated by <i>Molinia caerulea</i> , <i>Calluna vulgaris</i> and <i>Eriophorum angustifolium</i> with a low Sphagnum cover. Some parts of the remnant have been cut for peat in the past.	1.3 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
7	This long and relatively narrow strip of remnant blanket bog lies between a rough track and extensive cutaway blanket bog to the north. Vegetation is generally dominated by <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> and with a low Sphagnum cover. As a result of the narrow width the remnant bog habitat is very dry.	1.2 ha	Local (Lower value) importance
8	A bog stream runs through the centre of this remnant area. Along the stream banks there are extensive areas dominated by tall <i>Juncus effusus</i> wet grassland with the western half dominated by undifferentiated blanket bog on a slight slope. The bog vegetation of the western half is dominated by species such as <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> and <i>Narthecium ossifragum</i> with pools generally absent. Much of this bog has been subject to sausage machine cutting of peat in recent years. Towards the northern end of the remnant area the blanket bog habitat has been severely disturbed by past industrial peat-cutting.	22.1 ha	Local (Lower value) importance
9	A large, L-shaped bog remnant which is approximately 33 hectares in size. The area has been extensively drained in the past with some areas in the north of the remnant also stripped of surface vegetation. In these stripped areas there is a high cover of bare peat with <i>Eriophorum angustifolium</i> the main recolonizing species. The drains have been blocked with peat dams in recent years and this should improve the hydrology of the remnant over time.	33.1 ha	Local (Lower value) importance
10	This medium-sized remnant blanket bog area is dominated by deep peat and contains well developed large pool systems. The bog vegetation is dominated by <i>Schoenus nigricans</i> , <i>Calluna vulgaris</i> , <i>Cladonia portentosa</i> and <i>Molinia caerulea</i> , with an abundant Sphagnum layer generally present. The pools are in good condition, often contain deep water and tend to be colonized by sparse <i>Menyanthes trifoliata</i> and <i>Eriophorum angustifolium</i> . The unusual aquatic species <i>Eriocaulon aquaticum</i> was noted in one of the pools. A number of well established bog tracks cut through the remnant however the hydrology of the adjoining bog areas appears to be remarkably good.	29.1 ha	Local (Higher value) importance
11	This medium-sized remnant blanket bog area supports good examples of blanket bog vegetation. The south-western lobe of the remnant, though relatively long and narrow, is dominated by good intact bog vegetation in which <i>Schoenus nigricans</i> , <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> dominate with a high (40 to 70%) Sphagnum cover. The larger north-eastern portion of the remnant is more fragmented by tracks and a recently constructed gas	33.4 ha	Local (Higher value) importance



Remnant Area	Description	Approximate area	Ecological Importance
	pipeline and thus tends to be veering towards heath, with areas of species-poor <i>Molinia caerulea/Calluna vulgaris</i> wet heath frequent along the margins. In the northern half of the north-eastern portion a system of shallow pools occurs.		
12	These two small remnant bog areas are separated by a very deep drain which is between 4 and 6 metres deep. Both areas are very dry and tend to be dominated by a heathy bog vegetation in which <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> are dominant. The cover of other vascular plant species is low due to the dominance of <i>Calluna</i> and <i>Molinia</i> and the cover of Sphagnum is typically <30, as a result of drying out.	5.2 ha	Local (Lower value) importance
13	This long and relatively narrow bog remnant lies to the north of the N59. The vegetation is uniform and, in the more intact areas, dominated by <i>Calluna vulgaris</i> , <i>Molinia caerulea</i> , <i>Erica tetralix</i> and <i>Schoenus nigricans</i> . Although the area was not drained by industrial peat-cutting in the past, approximately 50% of the remnant was subject to hand-cutting of peat and in these areas <i>Calluna</i> and <i>Molinia</i> tend to dominate in a species-poor vegetation. Pool areas are absent, as a result of past disturbance and drying out.	11.1 ha	Local (Lower value) importance
14	A long and relatively narrow bog remnant which lies alongside the N59 road. In terms of overall structure and composition the area is very similar to Remnant No. 13, being dominated by old cutover bog which shows signs of drying out. <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> are the dominant plant species with small areas dominated by <i>Juncus effusus</i> also present.	3.8 ha	Local (Lower value) importance
15	A narrow (c. 50 metres) and small strip of dry blanket bog located between a road and Bord na Móna cutaway. As a result of its location the peat is dry and <i>Molinia caerulea</i> dominates the vegetation. Sphagnum cover is generally low, i.e. <30%.	1.8 ha	Local (Lower value) importance
16	A narrow (c. 50 metres) strip of dry blanket bog located between a road and Bord na Móna cutaway, just to the north of Area 15. The area is similarly dry and <i>Molinia caerulea</i> dominates the vegetation. Sphagnum cover is generally low, i.e. <30%.	2.4 ha	Local (Lower value) importance
17	The eastern half of this relatively small area of blanket bog has been previously drained. Most of the area is dominated by <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> with <i>Cladonia portentosa</i> also frequent. A few small pools occur however the water level is low due to	3.3 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
	drainage. The quality of this area would increase if the drains were blocked.		
18	This relatively small area of remnant blanket bog has been previously drained and the drains have been recently blocked with peat dams. Much of the area is dominated by <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> with <i>Cladonia portentosa</i> , <i>Eriophorum angustifolium</i> and <i>Erica tetralix</i> frequent. A low heathy hillock occurs at the northern end of the area. The north western arm of the remnant is very narrow and disturbed by past peat harvesting activities.	8.2 ha	Local (Lower value) importance
19	A medium-sized area of rather disturbed remnant blanket bog which contains a small oligotrophic lake and acidic grassland on a gravelly knoll. To the west of the lake the bog is rather shallow and has been disturbed by past peat harvesting however areas of deeper, more intact blanket bog occur in the eastern half of the remnant. An old railway embankment runs through the remnant and it is proposed that a new wind farm road will be constructed along this.	19.0 ha	Local (Lower value) importance
20	This long and rather narrow remnant bog area is generally dominated by <i>Molinia caerulea</i> , with <i>Calluna vulgaris</i> , <i>Eriophorum angustifolium</i> and <i>Narthecium ossifragum</i> also conspicuous. Much of the bog in the western half of the remnant has been damaged by past peat-cutting and drained in the past. These drains have been blocked in recent years. A small oligotrophic lake also occurs in the middle of the remnant.	22.9 ha	Local (Lower value) importance
21	This remnant comprises a long and narrow strip of bog which lies along the southern banks of the Oweninny river. <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> are the dominant species on the dried out surface of the bog with <i>Juncus effusus</i> frequent along the areas where the river waters flood. A number of silt ponds occur within this remnant area.	11.1 ha	Local (Lower value) importance
22	This is a medium-sized, good quality bog remnant with a high degree of habitat variation. In most of the area the vegetation is dominated by <i>Calluna vulgaris</i> , <i>Erica tetralix</i> , <i>Narthecium ossifragum</i> , <i>Tricophorum cespitosum</i> and <i>Cladonia portentosa</i> with a high cover of <i>Sphagnum</i> throughout. A large dystrophic lake occurs in the south-western half of the area and the surrounding bog supports numerous smaller pools. In the centre there is a low hillock dominated by <i>Molinia caerulea/Calluna vulgaris</i> heath on shallow peat. The majority of the remnant has never been drained.	21.2 ha	Local (Higher value) importance

Remnant Area	Description	Approximate area	Ecological Importance
23	The blanket bog habitat within this relatively large remnant area is of variable quality. In the eastern half of the area the peat is firm with numerous deep drains and with a species-poor vegetation which is generally dominated by <i>Molinia caerulea</i> . In the middle of the remnant area the habitat is more intact with <i>Calluna vulgaris</i> , <i>Molinia caerulea</i> , <i>Tricophorum cespitosum</i> and <i>Cladonia portentosa</i> providing the bulk of the vegetation cover. Along the western margins there has been extensive disturbance, resulting in the presence of substantial areas of bare peat and exposed subsoil.	33.0 ha	Local (Higher value) importance
24	Most of this remnant area is dominated by a large dried out dystrophic lake bed surrounded by blanket bog. The blanket bog vegetation is generally dominated by <i>Molinia caerulea</i> , <i>Calluna vulgaris</i> and <i>Cladonia portentosa</i> with a low Sphagnum cover generally. A wide and deep drain has severely affected the hydrology of the eastern half of the remnant area.	9.2 ha	Local (Lower value) importance
25	An area of relatively flat blanket bog which is largely intact and dominated by typical bog species such as <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> , <i>Calluna vulgaris</i> , <i>Erica tetralix</i> and <i>Narthecium ossifragum</i> . <i>Cladonia portentosa</i> and <i>Sphagnum capillifolium</i> are generally prominent. Pool areas are rare though two small dystrophic lakes occur. The condition of the habitat is good and a stream separates the area from extensively hand-cut peat banks to the south.	28.6 ha	Local (High value) importance
26	This large remnant area is dominated by a low hill with extensive development of <i>Calluna vulgaris</i> dry heath. Areas dominated by <i>Molinia caerulea</i> also occur with patches of <i>Pteridium aquilinum</i> colonizing the driest areas. Additional species in the vegetation include <i>Erica cinerea</i> and the mosses <i>Pleurozium schreberi</i> , <i>Hylocomium splendens</i> , <i>Sphagnum capillifolium</i> and <i>Rhytidiadelphus loreus</i> . A small oligotrophic lake fringed by stunted willows ( <i>Salix</i> sp.) is located along the northern margins of the area.	49.6 ha	Local (High value) importance
27	This remnant area comprises a mixture of <i>Calluna vulgaris</i> dry heath and areas of blanket bog on deeper peats dominated by <i>Molinia caerulea</i> , <i>Erica tetralix</i> , <i>Narthecium ossifragum</i> and <i>Sphagnum capillifolium</i> . A small pool area also occurs in the centre of the remnant. A good range of peatland habitats are present in a relatively small area.	16.2 ha	Local (High value) importance
28	The majority of this remnant area has been drained in the past and this has resulted in the drying out of the habitat. In the southern half of the remnant there is a high cover of bare	22.8 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
	peat with a good cover of the re-colonizing species <i>Eriophorum angustifolium</i> . In the northern half most of the drains have been recently blocked by machine and there is a small undrained central area of bog with a few small pools present.		
28a	In this small area the blanket bog is relatively intact in the centre however there are a number of deep drains in the peripheral areas of the remnant. The bog vegetation tends to be dominated by <i>Calluna vulgaris</i> , <i>Molinia caerulea</i> , <i>Narthecium ossifragum</i> and <i>Sphagnum capillifolium</i> . A small area of shallow bog pools occurs in the middle of the remnant however these contain little open water.	3.4 ha	Local (Lower value) importance
29	This is a large and elongate blanket bog remnant which is located along the eastern margin of the Oweninny site. A well-developed blanket bog flora is present throughout with a high cover of bog pools and Sphagnum in places. Although much of the remnant has been drained in the past, most of these drains have been blocked with peat dams in recent years. A low hill occurs at the southern end of the remnant and this is dominated by <i>Calluna vulgaris</i> / <i>Molinia caerulea</i> heath. High quality, open blanket bog of the Bellacorick Bog Complex SAC adjoins along the eastern margin of the remnant.	112.5ha	County importance
30	The main habitat within this remnant is wet heath on a relatively shallow peat. <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> are the main species in the vegetation. There is a high cover of Sphagnum in areas where the peat depth is slightly deeper. The area lies between cutover bog and young forestry.	8.2ha	Local (Lower value) importance
31	Most of the area within this small remnant comprises wet grassland on shallow, dried-out peat dominated by <i>Molinia caerulea</i> and <i>Juncus effusus</i> , which occurs along the sloping margins of a narrow stream. Small areas of marsh vegetation dominated by <i>Phragmites australis</i> and <i>Carex paniculata</i> also occur.	2.7ha	Local (Lower value) importance
32	In this remnant area the blanket bog habitat has been drained in the past and the drains have been subsequently blocked. As a result of drainage effects <i>Molinia caerulea</i> is the dominant plant species. In the northern half of the remnant there are numerous pools which are now devoid of water.	10.7ha	Local (Lower value) importance
33	This small bog remnant has been extensively drained in the past. The bog surface is generally dominated by bare peat, however recolonization by bog species such as	3.8ha	Local (Lower value)

Remnant Area	Description	Approximate area	Ecological Importance
	<i>Eriophorum angustifolium</i> , <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> , is well advanced. The drains have been blocked recently.		importance
34	Within this relatively large remnant blanket bog area there are numerous unblocked drains. The bog vegetation is typically dominated by <i>Molinia caerulea</i> , <i>Calluna vulgaris</i> , <i>Narthecium ossifragum</i> and <i>Eriophorum angustifolium</i> . A well developed system of bog pools occurs in an un-drained central bog area in the north of the site. Occasional low heathery knolls occur in the southern half of the site. The ecological value of this site would increase substantially if the drains were blocked. High quality, open blanket bog of the Bellacorick Bog Complex SAC adjoins along the eastern margin of the remnant.	77.1ha	Local (Higher value) importance
35	This area is not a blanket bog remnant but consists of flushed slopes dominated by grassy fen vegetation. The majority of the area is dominated by species-poor <i>Molinia caerulea</i> fen/grassland with occasional flushed soakways dominated by <i>Phragmites australis</i> throughout. Other species frequent in the vegetation include <i>Angelica sylvestris</i> , <i>Juncus subnodulosus</i> , <i>Potentilla erecta</i> , <i>Succisa pratensis</i> and <i>Myrica gale</i> . A small group of low-growing willow ( <i>Salix</i> sp.) occur at the bottom of the slope and a small stream flows out of the area in an easterly direction.	8.1ha	Local (Lower value) importance
36	This small blanket bog remnant lies between a low afforested hill and cutaway bog. Due to a general lack of drainage the condition of the bog habitat is good with <i>Narthecium ossifragum</i> , <i>Tricophorum cespitosum</i> , <i>Erica tetralix</i> and <i>Schoenus nigricans</i> typically dominating. The Sphagnum cover is locally high with <i>S. papillosum</i> and <i>S. capillifolium</i> the main species present. No bog pool areas occur within this remnant area.	9.1ha	Local (Lower value) importance
37a	Although small in area this blanket bog remnant supports a nice example of intact bog habitat with a small system of shallow bog pools in the centre. The vegetation is generally dominated by <i>Calluna vulgaris</i> , <i>Narthecium ossifragum</i> and <i>Molinia caerulea</i> . The south-western end of the area supports wet heath vegetation on a low rise with <i>Molinia caerulea</i> and/or <i>Calluna vulgaris</i> dominating the vegetation.	7.2 ha	Local (Lower value) importance
37b	In this small and previously drained bog remnant the blanket bog habitat has dried out to a considerable extent. As a result, tall and species-poor vegetation dominated by <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> has developed. Pool areas are absent. The quality of the	6.2 ha	Local (Lower value) importance



## **APPENDIX B. ECOLOGICAL DESCRIPTIONS/RANKINGS OF REMNANT BOG AREAS AT OWENINNY**

### **Introduction**

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In the following section the main habitat/vegetation features of each surveyed remnant area is briefly outlined. The remnant areas are numbered from 1 to 46 and their locations are indicated in Figure 9.2. A summary table is presented below.

The majority of the remnant areas described are considered to be of Local Importance, however there are a number which are of County and International Importance.





Remnant Area	Description	Approximate area	Ecological Importance
1	A large area of lowland blanket bog to the north of the Oweninny river which is of high ecological value. Known locally as O'Boyle's Bog. The bog vegetation is generally dominated by <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> and <i>Erica tetralix</i> with numerous pool areas/small dystrophic lake systems present, in the centre of the area. Much of the marginal bog in this area has been drained in the past however most of the drains have been recently blocked with peat dams. The overall quality of this area will improve in the future as drain-blocking improves the hydrology of the area. The Knockmoyle Nature Reserve adjoins along the eastern edge of the remnant.	317 ha	County Importance
2	This narrow fringe of remnant blanket bog lies on the southern banks of the Oweninny river. Most of the area is less than 70 metres wide with <i>Juncus effusus</i> wet grassland occurring along the river margins. To the south there is extensive Bord na Móna cutaway. Vegetation is generally dominated by <i>Molinia caerulea</i> with occasional small pool areas.	10.8 ha	Local (Lower value) importance
3	This remnant comprises a narrow fringe of bog which lies along the northern banks of the Oweninny river. Drained bog lies to the north of the remnant. Much of the area was subject to peat-cutting in the past and now the area is generally dried out with <i>Molinia caerulea</i> the dominant species present.	2.7 ha	Local (Lower value) importance
4	This small remnant area is completely surrounded by cutaway blanket bog (to the south and east) and coniferous plantation (to the north and west). Vegetation is generally dominated by <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> with a low Sphagnum cover. The drains have been blocked recently.	2.6 ha	Local (Lower value) importance
5	A small remnant area which is completely surrounded by cutaway blanket bog and coniferous plantation. Vegetation is generally dominated by <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> with a low Sphagnum cover. The drains have been blocked recently. Very similar in size and composition to remnant area No. 4.	2.7 ha	Local (Lower value) importance
6	This long and very narrow strip of remnant blanket bog habitat lies between a road and extensive cutaway blanket bog. Vegetation is generally dominated by <i>Molinia caerulea</i> , <i>Calluna vulgaris</i> and <i>Eriophorum angustifolium</i> with a low Sphagnum cover. Some parts of the remnant have been cut for peat in the past.	1.3 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
7	This long and relatively narrow strip of remnant blanket bog lies between a rough track and extensive cutaway blanket bog to the north. Vegetation is generally dominated by <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> and with a low Sphagnum cover. As a result of the narrow width the remnant bog habitat is very dry.	1.2 ha	Local (Lower value) importance
8	A bog stream runs through the centre of this remnant area. Along the stream banks there are extensive areas dominated by tall <i>Juncus effusus</i> wet grassland with the western half dominated by undifferentiated blanket bog on a slight slope. The bog vegetation of the western half is dominated by species such as <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> and <i>Narthecium ossifragum</i> with pools generally absent. Much of this bog has been subject to sausage machine cutting of peat in recent years. Towards the northern end of the remnant area the blanket bog habitat has been severely disturbed by past industrial peat-cutting.	22.1 ha	Local (Lower value) importance
9	A large, L-shaped bog remnant which is approximately 33 hectares in size. The area has been extensively drained in the past with some areas in the north of the remnant also stripped of surface vegetation. In these stripped areas there is a high cover of bare peat with <i>Eriophorum angustifolium</i> the main recolonizing species. The drains have been blocked with peat dams in recent years and this should improve the hydrology of the remnant over time.	33.1 ha	Local (Lower value) importance
10	This medium-sized remnant blanket bog area is dominated by deep peat and contains well developed large pool systems. The bog vegetation is dominated by <i>Schoenus nigricans</i> , <i>Calluna vulgaris</i> , <i>Cladonia portentosa</i> and <i>Molinia caerulea</i> , with an abundant Sphagnum layer generally present. The pools are in good condition, often contain deep water and tend to be colonized by sparse <i>Menyanthes trifoliata</i> and <i>Eriophorum angustifolium</i> . The unusual aquatic species <i>Eriocaulon aquaticum</i> was noted in one of the pools. A number of well established bog tracks cut through the remnant however the hydrology of the adjoining bog areas appears to be remarkably good.	29.1 ha	Local (Higher value) importance
11	This medium-sized remnant blanket bog area supports good examples of blanket bog vegetation. The south-western lobe of the remnant, though relatively long and narrow, is dominated by good intact bog vegetation in which <i>Schoenus nigricans</i> , <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> dominate with a high (40 to 70%) Sphagnum cover. The larger north-eastern portion of the remnant is more fragmented by tracks and a recently constructed gas	33.4 ha	Local (Higher value) importance

Remnant Area	Description	Approximate area	Ecological Importance
	pipeline and thus tends to be veering towards heath, with areas of species-poor <i>Molinia caerulea/Calluna vulgaris</i> wet heath frequent along the margins. In the northern half of the north-eastern portion a system of shallow pools occurs.		
12	These two small remnant bog areas are separated by a very deep drain which is between 4 and 6 metres deep. Both areas are very dry and tend to be dominated by a heathy bog vegetation in which <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> are dominant. The cover of other vascular plant species is low due to the dominance of <i>Calluna</i> and <i>Molinia</i> and the cover of Sphagnum is typically <30, as a result of drying out.	5.2 ha	Local (Lower value) importance
13	This long and relatively narrow bog remnant lies to the north of the N59. The vegetation is uniform and, in the more intact areas, dominated by <i>Calluna vulgaris</i> , <i>Molinia caerulea</i> , <i>Erica tetralix</i> and <i>Schoenus nigricans</i> . Although the area was not drained by industrial peat-cutting in the past, approximately 50% of the remnant was subject to hand-cutting of peat and in these areas <i>Calluna</i> and <i>Molinia</i> tend to dominate in a species-poor vegetation. Pool areas are absent, as a result of past disturbance and drying out.	11.1 ha	Local (Lower value) importance
14	A long and relatively narrow bog remnant which lies alongside the N59 road. In terms of overall structure and composition the area is very similar to Remnant No. 13, being dominated by old cutover bog which shows signs of drying out. <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> are the dominant plant species with small areas dominated by <i>Juncus effusus</i> also present.	3.8 ha	Local (Lower value) importance
15	A narrow (c. 50 metres) and small strip of dry blanket bog located between a road and Bord na Móna cutaway. As a result of its location the peat is dry and <i>Molinia caerulea</i> dominates the vegetation. Sphagnum cover is generally low, i.e. <30%.	1.8 ha	Local (Lower value) importance
16	A narrow (c. 50 metres) strip of dry blanket bog located between a road and Bord na Móna cutaway, just to the north of Area 15. The area is similarly dry and <i>Molinia caerulea</i> dominates the vegetation. Sphagnum cover is generally low, i.e. <30%.	2.4 ha	Local (Lower value) importance
17	The eastern half of this relatively small area of blanket bog has been previously drained. Most of the area is dominated by <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> with <i>Cladonia portentosa</i> also frequent. A few small pools occur however the water level is low due to	3.3 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
	drainage. The quality of this area would increase if the drains were blocked.		
18	This relatively small area of remnant blanket bog has been previously drained and the drains have been recently blocked with peat dams. Much of the area is dominated by <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> with <i>Cladonia portentosa</i> , <i>Eriophorum angustifolium</i> and <i>Erica tetralix</i> frequent. A low heathy hillock occurs at the northern end of the area. The north western arm of the remnant is very narrow and disturbed by past peat harvesting activities.	8.2 ha	Local (Lower value) importance
19	A medium-sized area of rather disturbed remnant blanket bog which contains a small oligotrophic lake and acidic grassland on a gravelly knoll. To the west of the lake the bog is rather shallow and has been disturbed by past peat harvesting however areas of deeper, more intact blanket bog occur in the eastern half of the remnant. An old railway embankment runs through the remnant and it is proposed that a new wind farm road will be constructed along this.	19.0 ha	Local (Lower value) importance
20	This long and rather narrow remnant bog area is generally dominated by <i>Molinia caerulea</i> , with <i>Calluna vulgaris</i> , <i>Eriophorum angustifolium</i> and <i>Narthecium ossifragum</i> also conspicuous. Much of the bog in the western half of the remnant has been damaged by past peat-cutting and drained in the past. These drains have been blocked in recent years. A small oligotrophic lake also occurs in the middle of the remnant.	22.9 ha	Local (Lower value) importance
21	This remnant comprises a long and narrow strip of bog which lies along the southern banks of the Oweninny river. <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> are the dominant species on the dried out surface of the bog with <i>Juncus effusus</i> frequent along the areas where the river waters flood. A number of silt ponds occur within this remnant area.	11.1 ha	Local (Lower value) importance
22	This is a medium-sized, good quality bog remnant with a high degree of habitat variation. In most of the area the vegetation is dominated by <i>Calluna vulgaris</i> , <i>Erica tetralix</i> , <i>Narthecium ossifragum</i> , <i>Tricophorum cespitosum</i> and <i>Cladonia portentosa</i> with a high cover of <i>Sphagnum</i> throughout. A large dystrophic lake occurs in the south-western half of the area and the surrounding bog supports numerous smaller pools. In the centre there is a low hillock dominated by <i>Molinia caerulea/Calluna vulgaris</i> heath on shallow peat. The majority of the remnant has never been drained.	21.2 ha	Local (Higher value) importance

Remnant Area	Description	Approximate area	Ecological Importance
23	The blanket bog habitat within this relatively large remnant area is of variable quality. In the eastern half of the area the peat is firm with numerous deep drains and with a species-poor vegetation which is generally dominated by <i>Molinia caerulea</i> . In the middle of the remnant area the habitat is more intact with <i>Calluna vulgaris</i> , <i>Molinia caerulea</i> , <i>Tricophorum cespitosum</i> and <i>Cladonia portentosa</i> providing the bulk of the vegetation cover. Along the western margins there has been extensive disturbance, resulting in the presence of substantial areas of bare peat and exposed subsoil.	33.0 ha	Local (Higher value) importance
24	Most of this remnant area is dominated by a large dried out dystrophic lake bed surrounded by blanket bog. The blanket bog vegetation is generally dominated by <i>Molinia caerulea</i> , <i>Calluna vulgaris</i> and <i>Cladonia portentosa</i> with a low Sphagnum cover generally. A wide and deep drain has severely affected the hydrology of the eastern half of the remnant area.	9.2 ha	Local (Lower value) importance
25	An area of relatively flat blanket bog which is largely intact and dominated by typical bog species such as <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> , <i>Calluna vulgaris</i> , <i>Erica tetralix</i> and <i>Narthecium ossifragum</i> . <i>Cladonia portentosa</i> and <i>Sphagnum capillifolium</i> are generally prominent. Pool areas are rare though two small dystrophic lakes occur. The condition of the habitat is good and a stream separates the area from extensively hand-cut peat banks to the south.	28.6 ha	Local (High value) importance
26	This large remnant area is dominated by a low hill with extensive development of <i>Calluna vulgaris</i> dry heath. Areas dominated by <i>Molinia caerulea</i> also occur with patches of <i>Pteridium aquilinum</i> colonizing the driest areas. Additional species in the vegetation include <i>Erica cinerea</i> and the mosses <i>Pleurozium schreberi</i> , <i>Hylocomium splendens</i> , <i>Sphagnum capillifolium</i> and <i>Rhytidiadelphus loreus</i> . A small oligotrophic lake fringed by stunted willows ( <i>Salix</i> sp.) is located along the northern margins of the area.	49.6 ha	Local (High value) importance
27	This remnant area comprises a mixture of <i>Calluna vulgaris</i> dry heath and areas of blanket bog on deeper peats dominated by <i>Molinia caerulea</i> , <i>Erica tetralix</i> , <i>Narthecium ossifragum</i> and <i>Sphagnum capillifolium</i> . A small pool area also occurs in the centre of the remnant. A good range of peatland habitats are present in a relatively small area.	16.2 ha	Local (High value) importance
28	The majority of this remnant area has been drained in the past and this has resulted in the drying out of the habitat. In the southern half of the remnant there is a high cover of bare	22.8 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
	peat with a good cover of the re-colonizing species <i>Eriophorum angustifolium</i> . In the northern half most of the drains have been recently blocked by machine and there is a small undrained central area of bog with a few small pools present.		
28a	In this small area the blanket bog is relatively intact in the centre however there are a number of deep drains in the peripheral areas of the remnant. The bog vegetation tends to be dominated by <i>Calluna vulgaris</i> , <i>Molinia caerulea</i> , <i>Narthecium ossifragum</i> and <i>Sphagnum capillifolium</i> . A small area of shallow bog pools occurs in the middle of the remnant however these contain little open water.	3.4 ha	Local (Lower value) importance
29	This is a large and elongate blanket bog remnant which is located along the eastern margin of the Oweninny site. A well-developed blanket bog flora is present throughout with a high cover of bog pools and Sphagnum in places. Although much of the remnant has been drained in the past, most of these drains have been blocked with peat dams in recent years. A low hill occurs at the southern end of the remnant and this is dominated by <i>Calluna vulgaris</i> / <i>Molinia caerulea</i> heath. High quality, open blanket bog of the Bellacorick Bog Complex SAC adjoins along the eastern margin of the remnant.	112.5ha	County importance
30	The main habitat within this remnant is wet heath on a relatively shallow peat. <i>Molinia caerulea</i> and <i>Calluna vulgaris</i> are the main species in the vegetation. There is a high cover of Sphagnum in areas where the peat depth is slightly deeper. The area lies between cutover bog and young forestry.	8.2ha	Local (Lower value) importance
31	Most of the area within this small remnant comprises wet grassland on shallow, dried-out peat dominated by <i>Molinia caerulea</i> and <i>Juncus effusus</i> , which occurs along the sloping margins of a narrow stream. Small areas of marsh vegetation dominated by <i>Phragmites australis</i> and <i>Carex paniculata</i> also occur.	2.7ha	Local (Lower value) importance
32	In this remnant area the blanket bog habitat has been drained in the past and the drains have been subsequently blocked. As a result of drainage effects <i>Molinia caerulea</i> is the dominant plant species. In the northern half of the remnant there are numerous pools which are now devoid of water.	10.7ha	Local (Lower value) importance
33	This small bog remnant has been extensively drained in the past. The bog surface is generally dominated by bare peat, however recolonization by bog species such as	3.8ha	Local (Lower value)

Remnant Area	Description	Approximate area	Ecological Importance
	<i>Eriophorum angustifolium</i> , <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> , is well advanced. The drains have been blocked recently.		importance
34	Within this relatively large remnant blanket bog area there are numerous unblocked drains. The bog vegetation is typically dominated by <i>Molinia caerulea</i> , <i>Calluna vulgaris</i> , <i>Narthecium ossifragum</i> and <i>Eriophorum angustifolium</i> . A well developed system of bog pools occurs in an un-drained central bog area in the north of the site. Occasional low heathery knolls occur in the southern half of the site. The ecological value of this site would increase substantially if the drains were blocked. High quality, open blanket bog of the Bellacorick Bog Complex SAC adjoins along the eastern margin of the remnant.	77.1ha	Local (Higher value) importance
35	This area is not a blanket bog remnant but consists of flushed slopes dominated by grassy fen vegetation. The majority of the area is dominated by species-poor <i>Molinia caerulea</i> fen/grassland with occasional flushed soakways dominated by <i>Phragmites australis</i> throughout. Other species frequent in the vegetation include <i>Angelica sylvestris</i> , <i>Juncus subnodulosus</i> , <i>Potentilla erecta</i> , <i>Succisa pratensis</i> and <i>Myrica gale</i> . A small group of low-growing willow ( <i>Salix</i> sp.) occur at the bottom of the slope and a small stream flows out of the area in an easterly direction.	8.1ha	Local (Lower value) importance
36	This small blanket bog remnant lies between a low afforested hill and cutaway bog. Due to a general lack of drainage the condition of the bog habitat is good with <i>Narthecium ossifragum</i> , <i>Tricophorum cespitosum</i> , <i>Erica tetralix</i> and <i>Schoenus nigricans</i> typically dominating. The Sphagnum cover is locally high with <i>S. papillosum</i> and <i>S. capillifolium</i> the main species present. No bog pool areas occur within this remnant area.	9.1ha	Local (Lower value) importance
37a	Although small in area this blanket bog remnant supports a nice example of intact bog habitat with a small system of shallow bog pools in the centre. The vegetation is generally dominated by <i>Calluna vulgaris</i> , <i>Narthecium ossifragum</i> and <i>Molinia caerulea</i> . The south-western end of the area supports wet heath vegetation on a low rise with <i>Molinia caerulea</i> and/or <i>Calluna vulgaris</i> dominating the vegetation.	7.2 ha	Local (Lower value) importance
37b	In this small and previously drained bog remnant the blanket bog habitat has dried out to a considerable extent. As a result, tall and species-poor vegetation dominated by <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> has developed. Pool areas are absent. The quality of the	6.2 ha	Local (Lower value) importance



Remnant Area	Description	Approximate area	Ecological Importance
	habitat will improve if these drains are blocked.		
36	This moderately sized blanket bog remnant is quite fragmented by a deep drain, which occurs in the north of the area, and by past peat-cutting in its southern half. The vegetation is generally dominated by <i>Molinia caerulea</i> which indicates drying out of the habitat. Bog pools are rare but a small system occurs in the western half of the area. Many of these have partially dried out as a result of drainage effects.	14.4 ha	Local (Lower value) importance
39	This relatively small area of blanket bog supports an exceptionally good example of large dystrophic pools. The area forms part of the Bellacorick Iron Flush Special Area of Conservation which supports a well-developed flush flora including a number of nationally rare plant species. In the eastern half of the area shallow blanket bog has developed on a low hill above the flush.	9.3 ha	International importance
40	The narrow nature of this bog remnant has resulted in the drying out of the blanket bog habitat. As a result the bog vegetation is generally dominated by <i>Molinia caerulea</i> with <i>Calluna vulgaris</i> frequent on the higher banks. Bog pools are absent.	3.8 ha	Local (Lower value) importance
41	This blanket bog remnant is located on the southern banks of a tributary of the Oweninny river. The bog vegetation is well developed with <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> and <i>Erica tetralix</i> the main species present. The most notable feature of the area is the presence of numerous bog pools, some of which are large.	10.6 ha	Local (Lower value) importance
42	This very narrow blanket bog remnant is located on the southern banks of a tributary of the Oweninny river. Most of the remnant is less than 20 metres in width. As a result of drainage effects the bog vegetation is dominated by <i>Molinia caerulea</i> . Along the river banks where flooding occurs <i>Juncus effusus</i> wet grassland is prominent.	5.0 ha	Local (Lower value) importance
43	This long and narrow blanket bog remnant is located on the southern banks of a tributary of the Oweninny river. Extensive cutaway bog surface lies to the east of the remnant. Most of the remnant is less than 20 metres in width. As a result of drainage effects the bog vegetation is dominated by <i>Molinia caerulea</i> with <i>Juncus effusus</i> frequent along the river banks.	12.1 ha	Local (Lower value) importance



Remnant Area	Description	Approximate area	Ecological Importance
	habitat will improve if these drains are blocked.		
36	This moderately sized blanket bog remnant is quite fragmented by a deep drain, which occurs in the north of the area, and by past peat-cutting in its southern half. The vegetation is generally dominated by <i>Molinia caerulea</i> which indicates drying out of the habitat. Bog pools are rare but a small system occurs in the western half of the area. Many of these have partially dried out as a result of drainage effects.	14.4 ha	Local (Lower value) importance
39	This relatively small area of blanket bog supports an exceptionally good example of large dystrophic pools. The area forms part of the Bellacorick Iron Flush Special Area of Conservation which supports a well-developed flush flora including a number of nationally rare plant species. In the eastern half of the area shallow blanket bog has developed on a low hill above the flush.	9.3 ha	International importance
40	The narrow nature of this bog remnant has resulted in the drying out of the blanket bog habitat. As a result the bog vegetation is generally dominated by <i>Molinia caerulea</i> with <i>Calluna vulgaris</i> frequent on the higher banks. Bog pools are absent.	3.8 ha	Local (Lower value) importance
41	This blanket bog remnant is located on the southern banks of a tributary of the Oweninny river. The bog vegetation is well developed with <i>Molinia caerulea</i> , <i>Schoenus nigricans</i> and <i>Erica tetralix</i> the main species present. The most notable feature of the area is the presence of numerous bog pools, some of which are large.	10.6 ha	Local (Lower value) importance
42	This very narrow blanket bog remnant is located on the southern banks of a tributary of the Oweninny river. Most of the remnant is less than 20 metres in width. As a result of drainage effects the bog vegetation is dominated by <i>Molinia caerulea</i> . Along the river banks where flooding occurs <i>Juncus effusus</i> wet grassland is prominent.	5.0 ha	Local (Lower value) importance
43	This long and narrow blanket bog remnant is located on the southern banks of a tributary of the Oweninny river. Extensive cutaway bog surface lies to the east of the remnant. Most of the remnant is less than 20 metres in width. As a result of drainage effects the bog vegetation is dominated by <i>Molinia caerulea</i> with <i>Juncus effusus</i> frequent along the river banks.	12.1 ha	Local (Lower value) importance

Remnant Area	Description	Approximate area	Ecological Importance
44	A small bog remnant with deep peat which supports a typical blanket bog flora. <i>Calluna vulgaris</i> , <i>Narthecium ossifragum</i> , <i>Trichophorum cespitosum</i> and <i>Erica tetralix</i> are the dominant species with a high Sphagnum cover (including <i>Sphagnum fuscum</i> ). A number of shallow bog pools occur throughout.	1.8 ha	Local (Lower value) importance
45	Coniferous forestry and Lough Dahybaun surround this relatively large bog remnant. Much of this remnant area is characterised by a high cover of <i>Calluna vulgaris</i> and <i>Molinia caerulea</i> which indicates the presence of shallow peat and/or drainage. A good-sized oligotrophic lake occurs along the western edge of the area. An old bog railway embankment runs along the eastern edge of the area and this has led to drying out of the adjacent peatland habitat.	18.1 ha	Local (Lower value) importance
46	This bog remnant has been disturbed by track construction in the past. Small areas of wet bog dominated by <i>Molinia caerulea</i> , <i>Erica tetralix</i> and <i>Eriophorum angustifolium</i> still occur in the areas between the various tracks however their hydrology has been compromised by drainage due to the track network. <i>Calluna vulgaris</i> heath is prominent along the drier margins of the area.	10.2 ha	Local (Lower value) importance

## APPENDIX C

DESCRIPTION OF BIRD SURVEY TRANSECT SECTIONS  
(taken from Copland, 2010)

Each transect section starts at the waypoint of that number (i.e. section 1 starts at waypoint 1 and finishes at waypoint 2, etc.) marked on the accompanying map (Figure 9.3). The location of the sections are designed to aid repetition of the survey, rather than reflect habitats on the route (which may change over time as the results of the rehabilitation work progresses). As a result, the start and end of each section is often at junctions or bends in the route used.

Section length (given in metres) is estimated from the GPS data as a straight line between the start and end points – the actual lengths are likely to be slightly longer.

## Oweninny Transect Sections

No.	Start Point Grid. Ref.	Section Length	Transect description
1	F942239	575	Transect starts on public road; head east-south-east on Bord na Móna track
2	F947236	413	Continue on track as it turns north-north-east
3	F950239	356	Continue on track as it turns east-south-east
4	F953237	966	Continue on track as it turns north-north-east
5	F959245	1493	Continue on track as it turns east-south-east
6	F972239	687	Continue on track as it turns south-south-east
7	F974232	425	Continue on track as it turns south-south-west
8	F972228	297	Continue on track as it turns south-west
9	F969227	874	Continue on track as it turns south-south-east
10	F973219	287	Continue on track as it turns south-south-west
11	F971216	969	At junction, join track coming from west; head south-east the east-south-east under concrete road bridge, then over wooden bridge crossing river
12	F979211	200	Continue on track as it turns north-north-east
13	F981213	474	Continue on track as it turns south-east
14	F985210	587	At junction, join road heading west-north-east
15	F990213	614	Continue on road as it turns north-east
16	F994217	1375	Leave road at junction, following grassy track heading north-north-east

No.	Start Point Grid. Ref.	Section Length	Transect description
17	G001229	568	Continue on track as it turns east-north-east
18	G006232	327	At 'T' junction, turn right onto track heading south-south-east
19	G008229	350	Continue on track as it turns south-south west and passes between buildings
20	G011228	589	Continue on track as it turns south-south-east
21	G011222	808	At junction, turn sharp left onto track heading east along the edge of conifer plantation
22	G019224	1578	As track starts to bear right heading uphill, turn right (south) out onto cutaway peatland, keeping fence on left; follow fence on left until gate and open ride through trees; head north-west through ride and out onto open peatland again; turn right (keeping fence on right), and follow peatland/plantation edge south-west until track
23	G030212	637	Turn right onto track heading south
24	G029206	1233	At junction, turn right on track heading south-west
25	G020198	545	At junction, follow track to right heading south-west
26	G015195	647	At junction, follow track heading south-east (then south)
<b>END</b>	G014188	<b>17,874</b>	Transect finishes at gate at 'T' junction on road.

**APPENDIX 9 D.**

**Birds Recorded by Transect Sections**

**at**

**Oweninny Cutaway Bog**



APPENDIX 9D-1

Birds recorded by transect sections at Oweninny Cutaway Bog, Summer 2010.

Species	Transect																										Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Grey Heron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2
Teal	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	5
Mallard	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Moorhen	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Ringed Plover	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	7
Snipe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3	4
Common Sandpiper	-	-	-	1	2	-	-	-	-	1	-	1	-	-	2	-	-	-	-	-	-	-	2	1	4	-	14
Common Gull	-	-	-	-	-	-	-	-	-	13	-	-	-	-	8	-	-	-	-	-	-	-	-	1	-	-	22
Cuckoo	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Skylark	1	2	1	6	9	1	2	1	5	2	3	2	2	-	-	5	1	1	3	1	1	-	2	5	-	3	59
Sand Martin	-	-	1	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	7
Swallow	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	2	-	-	-	-	2	2	-	1	10
Meadow Pipit	3	2	1	-	7	2	1	1	3	-	4	1	1	-	-	3	2	1	-	-	1	1	-	8	-	-	42
Wren	2	1	-	-	3	-	-	-	-	1	-	-	1	1	1	-	-	-	-	1	6	2	-	-	1	20	
Dunnock	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2
Robin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2
Blackbird	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	3
Song Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Mistle Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Grasshopper W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sedge Warbler	1	-	-	-	-	-	-	-	1	-	2	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	7

Species	Transect																										Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Willow Warbler	-	-	-	-	2	4	-	-	-	-	1	-	-	2	2	1	-	1	-	2	3	8	2	-	-	3	31
Blue Tit	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Coal Tit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	-	3	-	1	18
Magpie	-	-	-	-	-	6	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Hooded Crow	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	3
Raven	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	2	-	-	-	6
Chaffinch	-	-	-	-	1	-	-	-	-	-	2	-	-	2	1	-	-	-	-	2	5	6	-	-	1	1	21
Siskin	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4	-	-	-	-	7
Lesser Redpoll	-	-	-	-	1	1	-	-	1	-	2	-	1	1	-	1	1	1	-	-	2	1	-	1	-	-	14
Reed Bunting	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	2	-	5
<b>Species</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>11</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>14</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>12</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>8</b>	<b>9</b>	<b>6</b>	<b>10</b>	<b>7</b>	<b>10</b>	<b>31</b>
<b>Numbers</b>	<b>7</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>31</b>	<b>19</b>	<b>3</b>	<b>5</b>	<b>9</b>	<b>2</b>	<b>36</b>	<b>7</b>	<b>5</b>	<b>9</b>	<b>4</b>	<b>30</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>7</b>	<b>21</b>	<b>36</b>	<b>12</b>	<b>25</b>	<b>12</b>	<b>16</b>	<b>331</b>

NOTE: **Amber** colour denotes species of Moderate Conservation Concern in Ireland (after Lynas *et al.*, 2007)



APPENDIX 9D-2

Birds recorded by transect sections at Oweninny Cutaway Bog, Summer 2011.

Species	Transect																										Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Little Grebe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Grey Heron	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	3
Teal	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Mallard	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Kestrel	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Pheasant	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Moorhen	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ringed Plover	-	-	-	1	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	1	-	6
Snipe	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	2	-	-	6
Common Sandpiper	-	-	-	-	3	-	1	2	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	10
Common Gull	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	6	-	14
Cuckoo	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Skylark	1	1	-	3	12	-	2	4	3	2	3	1	4	-	-	6	3	1	-	-	-	-	2	2	-	-	50
Sand Martin	-	-	-	-	2	2	-	4	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	14
Swallow	-	-	-	-	-	2	2	-	-	-	4	-	-	-	-	-	1	2	-	-	-	1	-	-	-	-	12
Meadow Pipit	5	2	1	2	8	2	2	1	2	3	8	2	1	-	-	9	5	2	-	-	1	7	3	4	1	2	73
Pied Wagtail	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Wren	-	1	-	1	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	3	-	-	-	9
Robin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	-	5
Wheatear	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Blackbird	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Species	Transect																										Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Mistle Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
<b>Grasshopper Warbler</b>	-	-	-	-	<b>3</b>	-	-	-	-	-	<b>1</b>	-	-	-	-	-	<b>3</b>	<b>1</b>	<b>1</b>	-	-	-	<b>1</b>	-	-	-	<b>10</b>
Sedge Warbler	1	1	-	1	-	1	1	-	2	2	5	-	-	-	-	1	1	-	-	-	-	-	-	1	1	2	20
Blackcap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2
Willow Warbler	-	-	-	-	-	2	-	-	-	-	3	-	-	2	2	-	2	-	1	3	5	11	1	1	1	2	36
Blue Tit	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	6
Coal Tit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	-	-	-	-	8
Magpie	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Hooded Crow	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	3
Raven	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
<b>Starling</b>	-	-	-	-	-	-	-	-	-	-	<b>30</b>	-	-	-	-	-	-	-	-	-	-	-	<b>1</b>	-	-	-	<b>31</b>
Chaffinch	-	-	-	-	-	1	-	-	-	-	2	1	-	1	2	-	-	-	1	3	7	9	2	-	-	29	
Goldfinch	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Siskin	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1	1	-	1	-	6
Lesser Redpoll	-	1	1	-	1	1	-	-	-	-	106	-	1	1	1	1	-	1	1	-	-	4	1	1	8	-	130
Crossbill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	4	-	1	-	-	10
Bullfinch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	2
Reed Bunting	1	1	-	1	1	-	1	1	2	-	2	-	1	-	-	2	1	-	1	-	-	-	1	1	2	3	22
<b>Species</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>6</b>	<b>12</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>5</b>	<b>20</b>	<b>3</b>	<b>6</b>	<b>7</b>	<b>4</b>	<b>7</b>	<b>9</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>11</b>	<b>12</b>	<b>10</b>	<b>11</b>	<b>10</b>	<b>5</b>	<b>39</b>
<b>Numbers</b>	<b>8</b>	<b>7</b>	<b>5</b>	<b>9</b>	<b>35</b>	<b>15</b>	<b>9</b>	<b>14</b>	<b>16</b>	<b>10</b>	<b>178</b>	<b>4</b>	<b>10</b>	<b>9</b>	<b>7</b>	<b>25</b>	<b>18</b>	<b>8</b>	<b>5</b>	<b>12</b>	<b>25</b>	<b>47</b>	<b>14</b>	<b>16</b>	<b>23</b>	<b>10</b>	<b>539</b>

NOTE: **Amber** colour denotes species of Moderate Conservation Concern in Ireland (after Lynas *et al.*, 2007)

APPENDIX 9D-3.

Birds recorded by transect sections at Oweninny Cutaway Bog, Summer 2012.

Species	Transect																										Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Little Grebe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	2
Grey Heron	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1
Teal	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	2
Mallard	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	4
Pheasant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Moorhen	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Ringed Plover	-	1	-	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	2	-	9
Snipe	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	2	3	-	-	-	-	-	-	1	-	-	8
Common Sandpiper	-	-	-	1	1	2	2	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	1	3	-	13
Common Gull	-	-	-	-	-	-	-	-	2	-	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Cuckoo	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2
Skylark	2	-	-	4	10	1	6	4	5	2	4	-	4	-	-	6	2	1	2	-	1	3	3	5	-	3	68
Sand Martin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
Swallow	-	-	-	-	-	1	1	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Meadow Pipit	4	4	2	6	8	1	7	3	17	4	23	1	1	1	-	12	2	1	2	-	2	6	-	16	5	5	133
Pied Wagtail	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Wren	1	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	8	2	1	2	20
Duncock	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Robin	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	4	-	-	-	8
Stonechat	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	7
Wheatear	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Blackbird	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	3
Song Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	-	-	4
Sedge Warbler	-	-	-	1	-	-	-	-	1	1	1	-	-	-	-	1	-	1	-	1	-	-	-	-	1	2	9
Blackcap	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	1	-	-	-	-	6
Willow Warbler	-	1	-	-	-	3	-	1	1	-	-	-	-	3	4	4	1	1	1	1	7	8	1	3	1	4	45
Goldcrest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	-	-	-	-	10
Great Tit	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Species	Transect																										Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Coal Tit	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	6	2	-	-	-	20
Maggie	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Hooded Crow	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3
Raven	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Starling	-	-	-	-	-	-	4	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
Chaffinch	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	2	7	11	2	-	-	-	25
Siskin	-	-	-	-	-	-	-	-	-	-	1	-	-	3	2	-	-	-	-	1	2	2	1	-	-	1	13
Lesser Redpoll	1	3	2	1	2	2	-	1	-	-	20	-	-	4	-	1	1	4	-	-	3	4	1	-	1	2	53
Crossbill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Bullfinch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Reed Bunting	-	1	-	1	1	-	-	1	1	1	2	-	1	-	-	4	-	-	-	-	2	1	-	1	1	3	21
<b>Species</b>	<b>5</b>	<b>6</b>	<b>2</b>	<b>9</b>	<b>8</b>	<b>11</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>5</b>	<b>14</b>	<b>4</b>	<b>5</b>	<b>9</b>	<b>4</b>	<b>10</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>7</b>	<b>12</b>	<b>9</b>	<b>10</b>	<b>39</b>
<b>Numbers</b>	<b>9</b>	<b>11</b>	<b>4</b>	<b>18</b>	<b>25</b>	<b>20</b>	<b>21</b>	<b>50</b>	<b>28</b>	<b>9</b>	<b>61</b>	<b>7</b>	<b>13</b>	<b>18</b>	<b>9</b>	<b>34</b>	<b>10</b>	<b>9</b>	<b>7</b>	<b>6</b>	<b>44</b>	<b>64</b>	<b>12</b>	<b>34</b>	<b>19</b>	<b>24</b>	<b>565</b>

NOTE: Amber colour denotes species of Moderate Conservation Concern in Ireland (after Lynas *et al.*, 2007)

## **APPENDIX 9E.**

### **DETAILS OF OWENINNY VANTAGE POINT SURVEYS**



APPENDIX 9E.  
DETAILS OF OWENINNY SUMMER VANTAGE POINT SURVEYS, 2010, 2011 & 2012

MAY - JUNE 2010 Oweninny Vantage Point Watches

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
2	BM	24 May	7:00-9:30	Mallard – 3 flew low from east into Dahybaun Kestrel – 1 hovering along edge of Corvoderry forest Raven – 2 high overhead moving north Common Gull – several heard at Dahybaun but not seen later	Dry Wind: SW F2-3 Visibility: good
3	JL	24 May	7.15-9.30	Grouse heard from nearby bog Kestrel – 1 over Corvoderry forest	Dry Wind: SW F2-3 Visibility: good
6	BM	24 May	16.00-19.00	Snipe heard chipping in distance Cuckoo calling in distance	Occ. shower Wind: SW F2 Visibility: good
8	JL	24 May	16.00-19:00	Grasshopper Warbler reeling near VP Sedge Warblers singing Snipe heard near Knockmoyle Kestrel c. 1 km to east	Occ. shower Wind: SW F2 Visibility: good
10	BM	25 May	16:30-19:30	Grasshopper Warbler reeling from bog to south 2 Wheatears along track Cuckoo calling from west Teal (male) flew from O'Boyle's Bog	Dry Wind: S F2 Visibility: good
12	JL	25 May	16:45-19:45	Raven – 2 over Sheskin forest Crossbill – 3-4 heard in Sheskin forest	Dry Wind: S F2-3 Visibility: good
7	BM	26 May	07:00-10:00	Snipe heard chipping to east of VP Kestrel over Furnought Siskins calling from Furnought forest	Light drizzle at first Wind: SW F3 Visibility:

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
					moderate
9	JL	26 May	06.50-10:00	3 Mallard flew into settling ponds Cuckoo calling Grey Heron flew overhead northwards 2 Wheatears on track	Light drizzle at first Wind: SW F3 Visibility: moderate
1	BM	26 May	15.30-18.30	Up to 5 Mallard on Dahybaun 3 Common Gulls land on Dahybaun for a while, fly north Snipe chipping on bog	Occ showers Wind: SW F2-3 Visibility: good
3	JL	26 May	16.00-19.00	Kestrel over Corvoderry forest	Occ showers Wind: SW F2-3 Visibility: good
2	BM	20 June	16.30-19.30	Grey Heron flies low to Dahybaun Mallard and young on Dahybaun	Dry Wind: S F2-3 Visibility: good
3	JL	21 June	07.00-10.00	3 Ravens on site near edge of wood – possible carcass 20+ Swallows	Dry Wind: SW F3+ Visibility: good
6	BM	21 June	07.15-10.15	Kestrel in distance near Furnought	Dry Wind: SW F3+ Visibility: good
8	BM	21 June	16.30-19.30	Snipe chipping west of VP Grasshopper Warbler reeling 4 Common Gulls in area	Drizzle at times Wind: SW F2 Visibility: moderate
7	JL	21 June	16.15-19.30	3 Crossbills along edge of Furnought wood	Drizzle at times Wind: SW F2 Visibility:



VP ID	Observer	Date	Watch Period	Target Species Details	Weather
10	BM	22 June	07.00-10.00	2 Mallard and 1 Teal rise from river	moderate Dry Wind: SE F3 Visibility: good
12	BM	22 June	15.00-18.00	Kestrel hovering along edge of wood Flock of c.15 Redpolls fly over Grey Heron flies south	Occ. showers Wind: S F2 Visibility: good
1	BM	23 June	07.30-10.30	1 Teal and 5 Mallard on Dahybaun 15 Sand Martins fly through area	Dry Wind: S F3-4 Visibility: good
5	JL	23 June	07.20-10.30	6 Crossbills in woods	Dry Wind: S F3-4 Visibility: good

APRIL - JULY 2011 Oweninny Vantage Point Watches

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
1	BM	15 April	7:00-10:00	Mallard – 6 on Dahybaun Common Gull – 4 on Dahybaun but later flew westwards	Dry Wind: W F2-3 Visibility: good
2	BM	15 April	15.30-18.30	Pair of Teal on Dahybaun Kestrel hovering over ridge, drifted north towards Corvoderry Common Gull – 3 on Dahybaun	Dry (1 shower) Wind: W F3 Visibility: good
3	BM	29 April	16.00-19.00	2 Kestrel (pr) flew west over Corvoderry forest Cuckoo calling to east of site Grasshopper Warbler reeling between VP and forest Red Grouse flushed on way to VP	Dry Wind: SW F2-3 Visibility: good
8	JL	29 April	16.30-19:15	Grasshopper Warbler reeling near VP Snipe drumming west of VP Male Kestrel hunting actively 4 Mallard flew into Knockmoyle	Occ. shower Wind: SW F2 Visibility: good
6	BM	30 April	07:00-10.00	Cuckoo calling from north-west of VP 2 Mallard flew overhead N direction	Dry Wind: SE F3 Visibility: good
7	JL	30 April	16.30-19.30	Snipe chipping near VP Kestrel hunting actively NW of VP Cuckoo calling in distance Grasshopper Warbler reeling near VP	Dry Wind: S F3 Visibility: good
10	BM	30 April	17:00-19:30	Teal (pr) flew towards bog lake Kestrel male active in area, joined briefly by female 3 Ravens over Sheskin forest Cuckoo calling from Sheskin direction	Dry Wind: S F3 Visibility: good

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
9	BM	1 May	07.15-10:15	Snipe flew into nearby bog 4 Mallard passed west Several Common Gulls on ponds	Drizzle at first Wind: W F2-3 Visibility: moderate
1	JL	1 May	07.00-10.00	3 Mallard on Dahybaun 2 Common Gulls on Dahybaun	Drizzle at first Wind: W F2-3 Visibility: moderate
5	BM	1 May	15.45-18.45	4 Crossbills over forests Kestrel hunting to north	Occ showers Wind: W F3 Visibility: good
JUNE					
1	BM	1 June	15.30-18.30	Kestrel passes northwards 1 Teal on Dahybaun	Dry Wind: W F3 Visibility: good
3	JL	1 June	16.00-19.00	Kestrel over Furnought	Dry Wind: W F3 Visibility: good
8	BM	2 June	07.10-10.15	Red Grouse heard from west (Knockmoyle ?) 2 Ravens fly north high over site	Occ. Showers Wind: W F3+ Visibility: moderate
6	BM	2 June	16.00-19.00	Grey Heron flies north Grasshopper Warbler reeling	Dry Wind: W F3 Visibility: good
7	JL	2 June	16.30-19.00	Snipe chipping nearby	Dry Wind: W F3 Visibility: good

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
11	BM	3 June	07.00-10.00	4 Mallard fly SE Kestrel - pair in area	Dry Wind: SW F3-4 Visibility: good
12	JL	3 June	07.00-10.00	Crossbills heard from woods 1 Kestrel along edge of wood	Dry Wind: SW F3-4 Visibility: good
2	BM	3 June	15.30-18.30	3 Ravens in area of Corvoderry Woods	Dry Wind: SW F3 Visibility: good
6	BM	27 June	16.15-19.15	20+ flock Swallows & Sand Martins Kestrel male in area	Showers Wind: SW F3 Visibility: mod-good
8	JL	27 June	16.30-19.30	2 Common Gulls to west (bred ?) 2 Grey Herons over Knockmoyle Kestrel female passes west	Showers Wind: SW F3 Visibility: mod-good
1	BM	28 June	07.00-10.00	6 Mallard on Dahybaun 1 Little Grebe on Dahybaun	Dry Wind: W F2-3 Visibility: good
3	JL	28 June	07.20-10.20	2 Wheatears near VP	Dry Wind: W F2-3 Visibility: good
10	BM	28 June	16.15-19.00	2, possibly 3, Kestrels in area 2 Mallard 1 Grey Heron	Dry Wind: W F3 Visibility: good

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
9	JL	28 June	16.00-19.00	3 Common Gull on ponds 5 Mallard (bred on ponds)	Dry Wind: W F3 Visibility: good
2	BM	25 July	09.00-12.00	4 Mallard on Dahybaun 2 Grey Herons on Dahybaun c.30 Swallows overhead	Light rain clearing Wind: SW F3 Visibility: moderate
3	JL	25 July	09.15-12.00	Kestrel over Corvoderry forest 4 Ravens flew overhead high 2 Mallard & 1 Teal on local bog ponds	Light rain clearing Wind: SW F3 Visibility: moderate
7	BM	25 July	16.30-19.00	Several Crossbills in Furnought woods Grey Heron flew north	Dry Wind: S F3+ Visibility: good
8	JL	25 July	16.30-19.00	Snipe flew up from west 2 Common Gulls on western ponds	Dry Wind: S F3+ Visibility: good
10	BM	26 July	07.00-10.00	Up to 3 Kestrels in area 3 Teal flew from bog 4 Mallard flew from river	Dry Wind: SW F3 Visibility: good
9	JL	26 July	07.00-10.00	20+ Swallows & a few Sand Martins 2 Grey Herons on ponds 5 Mallard	Dry Wind: SW F3 Visibility: good

## APRIL - JULY 2012 Oweninny Vantage Point Watches

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
1	BM	12 April	07:10-10:10	Mallard – 2 on Dahybaun Common Gull – 2 on Dahybaun	Dry Wind: SW F3 Visibility: good
3	JL	12 April	07.15-10.15	2 Ravens landed in Corvoderry Woods 1 Grey Heron flew over woods	Dry Wind: SW F3 Visibility: good
6	BM	12 April	16.00-19.00	1 Kestrel to north Snipe flushed near VP	Dry Wind: SW F2 Visibility: good
8	JL	12 April	16.15-19:15	Male Kestrel in area 3 Mallard flew over	Dry Wind: SW F2 Visibility: good
1	BM	29 April	07:00-10.00	Cuckoo calling from west 2 Common Gulls on small lake east of Dahybaun	Dry (occ shower) Wind: S F3 Visibility: good
2	BM	29 April	15.45-18.45	Pair Teal flew west towards pond Cuckoo calling from Corvoderry Grasshopper Warbler reeling north of VP 6+ Wheatears on bog near VP	Dry Wind: S F3 Visibility: good
8	JL	30 April	07:15-10:15	Pair Mallard flew over towards Knockmoyle Grasshopper Warbler reeling Snipe chipping west of VP Wheatears widespread (10+)	Dry Wind: SW F3 Visibility: good
6	BM	30 April	07.00-10:00	Snipe drumming nearby Cuckoo calling from woods Wheatears – at least 15 in area	Dry Wind: SW F3 Visibility: good
5	BM	30 April	16.30-18.30	2 Grey Herons flew east over woods Wheatears – several near VP	Occ showers Wind: W F3+ Visibility: good

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
1	JL	30 April	16.00-19.00	Common Gulls on small lake Kestrel past west over ridge  Kestrel male in area	Occ showers Wind: W F3+ Visibility: good
11	BM	1 May	07.00-10.00	Cuckoo calling from east Male Teal flew north to bog ponds Wheatears – up to 10 near VP 6 Swallows passed north	Dry Wind: W F2 Visibility: good
9	JL	1 May	07.00-10.00	Grasshopper Warbler reeling to west 5 Wheatears near VP Common Gulls calling from ponds 2 Teal flew from ponds	Dry Wind: W F2 Visibility: good
3	BM	2 May	07.30-10.30	2 Red Grouse flushed from VP area Merlin female flew low (<10 m) over bog & landed on stumps 2 Mallard passed west Cuckoo calling from Corvoderry 8 Wheatears in VP area	Dry Wind: W F1-2 Visibility: good
1	JL	2 May	17.00-10.00	Snipe chipping from bog Grey Heron on Dahybaun Male Teal on Dahybaun Common Gulls on nest on pond	Dry Wind: W F1-2 Visibility: good
2	BM	27 May	16.30-19.30	Kestrel along edge of Corvoderry Wood 3 Ravens overhead flying north	Showers Wind: SW F3+ Visibility: good
3	JL	27 May	16.30-19.30	Kestrel over woods	Showers Wind: SW F3+ Visibility: good
1	BM	28 May	07.00-10.00	5 Mallard on Dahybaun Common Gulls still on nest on pond	Dry Wind: SE F2-

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
5	JL	28 May	07.00-10.00	4 Crossbills in woods Wheatear – 1 along track	3 Visibility: good Dry Wind: SE F2-3 Visibility: good
8	BM	28 May	16.00-19.00	Snipe chipping to west of VP Kestrel female in area 2 Common Gulls to west of VP	Dry - haze Wind: S F3 Visibility: mod-good
6	JL	28 May	16.15-19.30	Grasshopper Warbler reeling 2 Mallard fly west	Dry – haze Wind: S F3 Visibility: mod-good
10	BM	29 May	07.30-10.30	Red Grouse heard on bog in distance 2 Mallard fly onto bog Flock of c.10 Sand Martins pass west	Dry Wind: W F2-3 Visibility: good
12	JL	29 May	07.30-10.30	1 Wheatear on track Male Kestrel along forest edge	Dry Wind: W F2-3 Visibility: good
1	BM	19 June	16.00-19.00	Pair Teal on Dahybaun Flock of c.20 Swallows overhead Common Gulls on active nest	Dry, 1 shower Wind: NW F3 Visibility: good
3	JL	19 June	16.00-19.00	5 Ravens along edge of Corvoderry Forest	Dry, 1 shower Wind: NW F3 Visibility: good
8	BM	20 June	08.00-11.00	1 Kestrel flew south c.15 Sand Martins in area	Light rain clearing Wind: S F3 Visibility: moderate



VP ID	Observer	Date	Watch Period	Target Species Details	Weather
6	JL	20 June	08.00-11.00	Red Grouse flushed from near VP	Light rain clearing Wind: S F3 Visibility: moderate Dry
1	BM	25 June	07.30-10.30	Kestrel male passed over ridge north 7 Mallard on Dahybaun	Wind: SE F2-3 Visibility: good Dry
8	JL	25 June	07.30-10.30	Male Hen Harrier flew SW over bog hunting (<10 m) 2 Common Gulls with 1 grown chick on western ponds	Wind: SE F2-3 Visibility: good Dry
11	BM	25 June	16.00-19.00	3 Teal flew north onto bog	Wind: S F3 Visibility: good Dry
9	JL	25 June	16.00-19.00	Mixed flock (30+) of Swallows & Sand Martins Grey Heron on ponds Mallard heard from ponds	Wind: SW F3 Visibility: good Dry
1	BM	2 July	08.00-11.00	Male Kestrel hunting along ridge 2 Grey Herons fly to Dahybaun	Wind: E F2 Visibility: good Dry
3	JL	2 July	08.15-11.15	Male Kestrel over Corvoderry 20+ Sand Martins overhead	Wind: E F2 Visibility: good Dry
2	BM	3 July	07.00-10.00	4 Ravens flying west 1 Teal on bog lake	Wind: S F3 Visibility: good Dry
8	JL	3 July	07.30-10.30	20 Swallows & 4 Sand Martins overhead	Wind: S F3 Visibility: good Dry
1	BM	15 July	07.00-	7 Mallard on Dahybaun	Drizzle

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VP ID	Observer	Date	Watch Period	Target Species Details	Weather
		July	10.00	3 Teal on Dahybaun	Wind: W F3 Visibility: moderate

**APPENDIX 9F.**

**DETAILS OF OWENINNY WINTER VANTAGE POINT SURVEYS - 2010/11, 2011/12 & 2012/13**

**WINTER 2010/2011 Oweninny Vantage Point Watches**

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
6	BM	1 Feb	15.30-18.20	Mallard – 2 flew north to Knockmoyle Raven – 3 along Owenmore valley	Dry Wind: W F3-4 Visibility: good
10	BM	2 Feb	7.05-9.30	Grouse heard from O'Boyle's Bog Kestrel – 1 flew south Mallard – 3 flew up from O'Boyle's Bog	Dry (1 shower) Wind: W F2-3 Visibility: good
8	JL	2 Feb	15.45-18.15	2 Snipe flushed at VP area Raven – 2 flew north	Occ. shower Wind: SW F3-4 Visibility: good
3	BM	3 Feb	07.00-09:00	Kestrel - 1 over Corvoderry forest Red Grouse heard nearby	Dry Wind: SW F3 Visibility: good
6	JL	3 Feb	07.10-09:10	Raven – 2 in area all morning Kestrel – male hunting close to VP	Dry Wind: SW F3 Visibility: good

**WINTER 2011/2012 Oweninny Vantage Point Watches**

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
2	BM	14 Nov	15.40-17:10	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F3-4 Visibility: good
1	JL	14 Nov	15.30-17.10	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F3-4 Visibility: good
2	BM	15 Nov	08.30-09.45	Hen Harrier roost watch – see Table 15 in main text for details	Mist at first Wind: SE F2-3 Visibility: poor - mod
1	JL	15 Nov	08.10-09:45	Hen Harrier roost watch – see Table 15 in main text for details	Mist at first Wind: SE F2-3 Visibility: poor – mod
8	BM	15 Nov	11:00-	3 Mallard flew overhead S direction	Dry

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
			14.00	1 Grey Heron on ponds 2 Ravens in area 1 Kestrel hunting	Wind: SE F3 Visibility: good
1	JL	15 Nov	16.00-17.20	Hen Harrier roost watch – see Table 15 in main text for details	Dry- light mist at dusk Wind: SE F3 Visibility: mod-good
2	BM	15 Nov	16:15-17:20	Hen Harrier roost watch – see Table 15 in main text for details	Dry- light mist at dusk Wind: SE F3 Visibility: mod-good
1	JL	16 Nov	08.00-09:30	Hen Harrier roost watch – see Table 15 in main text for details	Mist at first Wind: SSE F2-3 Visibility: moderate
8	BM	16 Nov	07.30-10.30	2 White-fronted Geese flew up from pond – flew SW 4 Whooper Swans on pond 2 Grey Herons flew eastwards 3 Mallard flew north Snipe at VP	Mist at first Wind: SSE F2-3 Visibility: moderate
2	BM	12 Jan	15.15-17.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: W F1 Visibility: good
1	JL	12 Jan	15.15-17.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: W F1 Visibility: good
2	BM	13 Jan	09.00-12.20	Hen Harrier roost watch – see Table 15 in main text for details	Heavy mist up to 11.00 hrs Wind: W F1 Visibility: poor - mod
1	JL	13 Jan	09.00-11.30	Hen Harrier roost watch – see Table 15 in main text for details	Heavy mist up to 11.00 hrs Wind: SW F2 Visibility: poor- mod
10	BM	13 Jan	14.00-15.30	4 Mallard O'Boyle's Bog 1 Kestrel female	Dry, faint mist Wind: SW F3+ Visibility: mod-good
8	BM	13 Jan	16.10-17.15	2 Snipe flushed near VP 4 Ravens in area	Dry Wind: SW F3 Visibility: good
1	JL	13 Jan	15.30-	Hen Harrier roost watch – see Table	Dry

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
			17.15	15 in main text for details	Wind: SW F3 Visibility: good
1	JL	14 Jan	08.00-10.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F1-2 Visibility: good
2	BM	6 Feb	16.00-18.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F1-2 Visibility: good
1	JL	6 Feb	16.00-18.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F1-2 Visibility: good
2	BM	7 Feb	08.30-11.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F2 Visibility: mod-good
1	JL	7 Feb	08.30-11.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F2 Visibility: mod-good
8	BM	7 Feb	13.00-14.30	Red Grouse along track 2 Kestrels in area	Dry Wind: SW F2-3 Visibility: good
2	BM	7 Feb	15.30 - 17.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: W F3 Visibility: good
1	JL	7 Feb	15.30-17.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: W F3 Visibility: good
1	JL	8 Feb	08.15-10.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: W F3 Visibility: good
2	BM	28 Feb	15.15-18.20	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F3 Visibility: moderate
3	JL	28 Feb	15.00-18.20	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F3 Visibility: moderate
2	BM	29 Feb	08.30-10.30	Hen Harrier roost watch – see Table 15 in main text for details	Drizzle clearing Wind: SW F2-3 Visibility: good
1	JL	29 Feb	08.30-10.30	Hen Harrier roost watch – see Table 15 in main text for details	Drizzle clearing Wind: SW F2-3

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
8	BM	29 Feb	11.30-13.30	2 Golden Plover flew west to Knockmoyle (<50 m high) 2 Teal (pair) flew onto pond	Visibility: good Dry Wind: SW F3 Visibility: good
10	JL	29 Feb	11.30-13.45	2 Grey Herons flew north 4 Mallard along river Red Grouse heard from bog	Dry Wind: SW F3 Visibility: good
2	BM	29 Feb	15.45-18.15	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: S F3 Visibility: good
1	JL	29 Feb	15.40-18.15	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: S F3 Visibility: good
1	JL	1 March	08.00-10.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: WSW F3 Visibility: good

#### WINTER 2012/2013 Oweninny Vantage Point Watches

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
1	BM	11 Nov	16.00-19.00	Hen Harrier roost watch – see Table 15 in main text for details	Showers Wind: W F3 Visibility: good
2	BM	12 Nov	07.00-09:00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F3 Visibility: good
1	JL	17 Dec	15:00-17.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: WNW F1-2 Visibility: good
2	BM	17 Dec	15.00-17.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: WNW F1-2 Visibility: good
1	JL	18 Dec	08:00-11:30	Hen Harrier roost watch – see Table 15 in main text for details	Dense fog Wind: SW F1 Visibility: v. poor
2	BM	18 Dec	08.00-11:30	Hen Harrier roost watch – see Table 15 in main text for details	Dense fog Wind: SW F1 Visibility: v. poor

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
2	BM	18 Dec	15.00-16.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F2 Visibility: moderate
1	JL	18 Dec	15.00-16.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F2 Visibility: moderate
8	BM	19 Dec	08.00-10.00	4 Teal flew onto ponds near VP 3 Ravens in area	Dry Wind: W F3 Visibility: good
10	JL	19 Dec	08.15-10.15	3 Mallard along river 1 Kestrel in area	Dry Wind: W F2 Visibility: good
2	BM	23 Jan	15.15-17.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F1-2 Visibility: good
1	JL	23 Jan	15.00-17.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F1-2 Visibility: good
2	BM	24 Jan	08.15-10.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F1-2 Visibility: good
1	JL	24 Jan	08.00-10.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F1-2 Visibility: good
8	BM	24 Jan	12.00-14.30	Grey Heron – 2 flew west Kestrel – male in area	Dry Wind: SE F2-3 Visibility: good
1	JL	24 Jan	16.00-18.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F2-3 Visibility: good
2	BM	24 Jan	16.00-18.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F2-3 Visibility: good
1	JL	20 Feb	16.15-18.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: ESE F2-4 Visibility: good
2	BM	20 Feb	16.15-18.30	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: ESE F2-4 Visibility: good

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
1	JL	21 Feb	08.00-10.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: ESE F3 Visibility: good
2	BM	21 Feb	08.00-10.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: ESE F3 Visibility: good
10	JL	21 Feb	11.30-13.30	3 Ravens flew west 1 Kestrel in area 4 Crossbills flew over west	Dry Wind: ESE F3 Visibility: good
6	BM	21 Feb	11.15-13.30	2 Snipe flew up from bog near VP 1 Kestrel to NW	Dry Wind: ESE F3 Visibility: good
2	BM	21 Feb	16.15-18.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F3-4 Visibility: good
1	JL	21 Feb	16.30-18.45	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SE F3-4 Visibility: good
1	JL	13 March	16.30-19.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: N F3 Visibility: good
2	BM	13 March	16.30-19.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: N F3 Visibility: good
1	JL	14 March	06.45-09.00	Hen Harrier roost watch – see Table 15 in main text for details	Heavy showers Wind: SW F3 Visibility: good
2	BM	14 March	06.45-09.00	Hen Harrier roost watch – see Table 15 in main text for details	Heavy showers Wind: SW F3 Visibility: good
3	BM	14 March	11.00-13.30	Red Grouse calling near VP 2 Kestrels over Corvoderry forest	Showers Wind: SW F3 Visibility: good
10	JL	14 March	11.30-14.00	4 Mallard on O'Boyle's Bog 1 Teal on O'Boyle's Bog 1 Raven flew west	Showers Wind: SW F3 Visibility: good
1	JL	14 March	16.00-19.00	Hen Harrier roost watch – see Table 15 in main text for details	Dry Wind: SW F2-3 Visibility: good
2	BM	14	16.00-	Hen Harrier roost watch – see Table 15	Dry



VP ID	Observer	Date	Watch Period	Target Species Details	Weather
		March	19.00	in main text for detail	Wind: SW F2-3 Visibility: good

## APPENDIX 9G.

## DETAILS OF OWENINNY AUTUMN VANTAGE POINT SURVEYS – 2011 &amp; 2012

## OCTOBER 2011 Oweninny Vantage Point Watches

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
1	JL	13 Oct	09.00-11.00	Lapwing – 14 flew SE, approx 100 m high. Mallard – 2 on Dahybaun Little Grebe - 2 on Dahybaun	Dry Wind: SW F2-3 Visibility: good
3	BM	13 Oct	09.15-11.15	Kestrel – 1 along edge of Corvoderry Wood Raven – 1 on bog near wood	Dry Wind: SW F2-3 Visibility: good
8	JL	13 Oct	17.00-20.00	2 Snipe flushed at VP area Raven – 2 flew north Grey Heron – 2 flew west	Dry Wind: SW F3 Visibility: good
6	BM	13 Oct	17.00-20.00	c.20 Starlings to west 1 Grey Heron	Dry Wind: SW F3 Visibility: good
10	BM	14 Oct	07.30-09.30	Mallard – 4 flew south Kestrel – 1 in area	Dry Wind: SW F3 Visibility: good
9	JL	14 Oct	07.15-09.30	Starling – c.40 in fields along river Cormorant on river	Dry Wind: SW F3 Visibility: good

## AUTUMN 2012 Oweninny Vantage Point Watches

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
2	BM	20 Aug	10.00-12:00	Swallows – c.20 overhead Swift – 4 with swallows Kestrel – 2 at Corvoderry	Dry, occ. shower Wind: SSW F3-4 Visibility: good
6	JL	20 Aug	09.30-12.00	Kestrel – 1 to east Wheatear – 2 near VP	Dry, occ. shower Wind: SSW F3-4 Visibility: good
1	BM	20 Aug	16.30 -19.30	5 Mallard on Dahybaun 3 Teal on Dahybaun Swallows – 8 overhead	Dry Wind: SSW F3 Visibility: good
8	JL	20 Aug	16.30-19:30	2 Snipe got up near VP 1 Kestrel 2 Grey Herons	Dry Wind: SSW F3 Visibility: good
10	BM	21 Aug	07:00-10.00	4 Mallard on bog 1 Grey Heron 3 Ravens in area 1 Kestrel hunting	Heavy showers Wind: SW F3-4 Visibility: good

VP ID	Observer	Date	Watch Period	Target Species Details	Weather
9	JL	21 Aug	07.00-10.00	4 Common Gulls c.60 Starlings 20+ Swallows	Heavy showers Wind: SW F3-4 Visibility: good
1	BM	18 Sept	10:00-12:30	3 Mallard on Dahybaun 2 Little Grebes on Dahybaun 3 Common Gulls on Dahybaun	Showers Wind: NW F3-4 Visibility: good
3	JL	18 Sept	10.15-12:30	1 Kestrel over Corvoderry	Showers Wind: NW F3-4 Visibility: good
8	BM	18 Sept	16.00-19.00	1 Wheatear along track at VP 1 Snipe heard	Showers Wind: NW F3 Visibility: good
6	JL	18 Sept	16.00-19.00	1 Grey Heron flew low westwards 4 Swallows flew south	Showers Wind: NW F3 Visibility: good
10	JL	19 Sept	07.15-10.15	2 Mallard up from bog 1 Grey Heron	Dry Wind: SW F1-2 Visibility: good
9	BM	19 Sept	07.00-10.00	Male Kestrel hunting c.40 Starlings in fields	Dry Wind: SW F1-2 Visibility: good
1	JL	17 Oct	17.00-20.00	Mallard - 5 on Dahybaun Little Grebe - 1 on Dahybaun Teal – 3 on Dahybaun 1 Grey Heron flew into Dahybaun	Dry - a few showers Wind: SW F2-3 Visibility: good
6	BM	17 Oct	17.00-20.00	Kestrel male in area 2 Ravens passed over VP	Dry - a few showers Wind: SW F2-3 Visibility: good
2	BM	18 Oct	07.00-10.00	Kestrel female towards Corvoderry	Dry Wind: SW F3 Visibility: good
8	JL	18 Oct	07.00-10.00	Wheatear along track near VP 2 Grey Herons on ponds	Dry Wind: SW F3 Visibility: good
9	JL	18 Oct	15.00-18.00	3 Mallard at ponds c.60 Starlings	Dry Wind: SW F2-3 Visibility: good
10	BM	18 Oct	15.15-18.00	1 Mallard & Teal flew up from river 2-3 Ravens over forests to west	Dry Wind: SW F2-3 Visibility: good

**APPENDIX 9H****Scientific Names of Bird Species**

Little Grebe	<i>Tachybaptus ruficollis</i>
Cormorant	<i>Phalacrocorax carbo</i>
Grey Heron	<i>Ardea cinerea</i>
Whooper Swan	<i>Cygnus cygnus</i>
Greenland White-fronted Goose	<i>Anser albifrons flavirostris</i>
Greylag Goose	<i>Anser anser</i>
Teal	<i>Anas crecca</i>
Mallard	<i>Anas platyrhynchos</i>
Tufted Duck	<i>Aythya fuligula</i>
Hen Harrier	<i>Circus cyaneus</i>
Sparrowhawk	<i>Accipiter nisus</i>
Kestrel	<i>Falco tinnunculus</i>
Merlin	<i>Falco columbarius</i>
Red Grouse	<i>Lagopus lagopus</i>
Moorhen	<i>Gallinula chloropus</i>
Pheasant	<i>Phasianus colchicus</i>
Water Rail	<i>Rallus aquaticus</i>
Ringed Plover	<i>Charadrius hiaticula</i>
Golden Plover	<i>Pluvialis apricaria</i>
Lapwing	<i>Vanellus vanellus</i>
Dunlin	<i>Calidris alpina</i>
Snipe	<i>Gallinago gallinago</i>
Woodcock	<i>Scolopax rusticola</i>
Greenshank	<i>Tringa nebularia</i>
Common Sandpiper	<i>Actitis hypoleucos</i>
Black-headed Gull	<i>Chroicocephalus ridibundus</i>
Common Gull	<i>Larus canus</i>
Woodpigeon	<i>Columba palumbus</i>
Cuckoo	<i>Cuculus canorus</i>
Snowy Owl	<i>Nyctea scandiaca</i>
Swift	<i>Apus apus</i>
Kingfisher	<i>Alcedo atthis</i>
Skylark	<i>Alauda arvensis</i>

Sand Martin	<i>Riparia riparia</i>
Swallow	<i>Hirundo rustica</i>
Meadow Pipit	<i>Anthus pratensis</i>
Pied Wagtail	<i>Motacilla alba</i>
Wren	<i>Troglodytes troglodytes</i>
Robin	<i>Erithacus rubecula</i>
Stonechat	<i>Saxicola torquata</i>
Wheatear	<i>Oenanthe oenanthe</i>
Blackbird	<i>Turdus merula</i>
Fieldfare	<i>Turdus pilaris</i>
Song Thrush	<i>Turdus philomelos</i>
Mistle Thrush	<i>Turdus viscivorus</i>
Grasshopper Warbler	<i>Locustella naevia</i>
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>
Blackcap	<i>Sylvia atricapilla</i>
Willow Warbler	<i>Phylloscopus trochilus</i>
Goldcrest	<i>Regulus regulus</i>
Coal Tit	<i>Parus ater</i>
Blue Tit	<i>Parus caeruleus</i>
Great Tit	<i>Parus major</i>
Magpie	<i>Pica pica</i>
Hooded Crow	<i>Corvus corone</i>
Raven	<i>Corvus corax</i>
Starling	<i>Sturnus vulgaris</i>
Chaffinch	<i>Fringilla coelebs</i>
Goldfinch	<i>Carduelis carduelis</i>
Siskin	<i>Carduelis spinus</i>
Linnet	<i>Carduelis cannabina</i>
Twite	<i>Carduelis flavirostris</i>
Lesser Redpoll	<i>Carduelis flammea</i>
Crossbill	<i>Loxia curvirostra</i>
Bullfinch	<i>Pyrrhula pyrrhula</i>
Snow Bunting	<i>Plectrophenax nivalis</i>
Reed Bunting	<i>Emberiza schoeniclus</i>