

Species	Scientific Name	BoCC Red or Amber List	Schedule 1 Species	Rare Breeding Birds	NERC S41 Species	Listed on SSSI citation <sup>1</sup>	Annex 1 Species	Visit Number & Date					Recorded Within SSSI (river/canal corridor) Y = Yes	Recorded Outside SSSI (arable farmland to N & S) Y = Yes	Breeding Status (Confirmed, Probable, Possible, Not Breeding)	Territories/breeding pairs within SSSI	Territories /breeding pairs outside SSSI
								1 31st March 2021	2 14th April 2021	3 24th April 2021	4 3rd May 2021	5 5th June 2021					
<b>Tree Sparrow</b>	<i>Passer montanus</i>	Red			S41						1	Y		Probable			
<b>Treecreeper</b>	<i>Certhia familiaris</i>							1	1			1	Y		Confirmed		
<b>Tufted Duck</b>	<i>Aythya fuligula</i>							1		14	8	5	Y		Probable		
<b>Whitethroat</b>	<i>Curruca communis</i>									1	4	1	Y	Y	Confirmed		
<b>Whooper Swan</b>	<i>Cygnus cygnus</i>	Amber	1	R			A1	7							Not Breeding - in flight over site (migrants)		
<b>Willow Warbler</b>	<i>Phylloscopus trochilus</i>	Amber							3	5	3	3	Y		Confirmed		
<b>Woodpigeon</b>	<i>Columba palumbus</i>							9	7	16	20	12	Y	Y	Confirmed		
<b>Wren</b>	<i>Troglodytes troglodytes</i>							14	26	20	19	17	Y	Y	Confirmed		
<b>Yellow Wagtail</b>	<i>Motacilla flava</i>	Red			S41	Y					1	1		Y	Probable		
<b>Yellowhammer</b>	<i>Emberiza citrinella</i>	Red			S41			4	2	3	4	1		Y	Confirmed		1

## Annex 9: Wintering Bird Survey Metadata

**Table I1: Wintering Bird Survey Details – Drax Bird Survey Area**

Survey Date	Time	Weather and Approximate Sunrise/Sunset Time
19 <sup>th</sup> January 2021	11:20-13:20	Overcast (8/8 cloud cover); 8°C; calm; mostly dry – heavy rain in morning and overnight. Sunrise/sunset time: 08:08/16:21.
15 <sup>th</sup> February 2021	11:30-13:30	Broken clouds (5/8 cloud cover); 8°C; light breeze (S); dry. Sunrise/sunset time: 07:22/17:14.
26 <sup>th</sup> March 2021	10:45-14:16	Cloudy (7/8 cloud cover); 19°C; moderate breeze (WSW); dry. Sunrise/sunset time: 05:51/18:28.
11 <sup>th</sup> October 2021	09:45-12:10	Sunny (2/8 cloud cover); 15°C; calm; dry. Sunrise/sunset time: 07:24/18:16.
9 <sup>th</sup> November 2021	10:05- 12.10	Cloudy (7/8 cloud cover); 14°C; light breeze (S); dry. Sunrise/sunset time: 07:21/16:17.
10 <sup>th</sup> December 2021	09.30-12.15	Clear (1/8 cloud cover); 3°C; moderate breeze (NE); dry. Sunrise/sunset time: 08:10/15:43.

**Table I2: Wintering Bird Survey Details - Landfall Survey Area**

Survey Date	Time	Weather and Approximate Sunrise/Sunset time	Tidal Information (HT= High Tide, LT= Low Tide. m = Metres)
30 <sup>th</sup> October 2020	14:55-15:55	Overcast (8/8 cloud cover); 13°C; light breeze (S); dry. Sunrise/sunset time: 06:58/16:29.	LT 09:52 (1.6m), HT 15:53 (5.8m)
12 <sup>th</sup> November 2020	13:30-16:00	Partly cloudy (4/8 cloud cover); 11°C; gentle-moderate breeze (SW); dry. Sunrise/sunset time: 07:23/16:05.	LT 07:48 (1.4m), HT 14:07 (5.7m)
14 <sup>th</sup> December 2020	13:30-16:00	Scattered clouds (2/8 cloud cover); 6°C; gentle-moderate breeze (SW); dry. Sunrise/sunset time: 08:13/15:37.	LT 10:00 (0.9m), HT 16:02 (6m)
11 <sup>th</sup> January 2021	14:30-15:45	Overcast (8/8 cloud cover); 7°C; moderate breeze (SW); light rain/sunny at end. Sunrise/sunset time: 08:15/16:02.	LT 08:50 (1.5m), HT 15:02 (5.6m)
23 <sup>rd</sup> February 2021	12:30-15:00	Few clouds (1/8 cloud cover); 4°C, moderate breeze; dry. Sunrise/sunset time: 07:02/17:26.	LT 07:21 (2.7m), HT 13:41 (4.7m)
11 <sup>th</sup> March 2021	14:30-16:00	Overcast (8/8 cloud cover); 7°C, moderate-fresh breeze; slight rain during survey. Sunrise/sunset time: 06:25/17:57.	LT 09:28 (1.7m), HT 15:24 (5.6m)

## Annex 10: Wintering Bird Survey Results and Analysis

Table J1: Drax Wintering Bird Survey Area – Results Summary

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Blackbird	<i>Turdus merula</i>		100%	9 (Dec)	5	Widespread
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	Amber	50%	34 (Dec)	6	Widespread. Sixteen recorded within the proposed converter station site (Dec).
Blue Tit	<i>Cyanistes caeruleus</i>		100%	8 (Feb)	4.83	Widespread
Bullfinch	<i>Pyrrhula pyrrhula</i>	S41, Amber	66.66%	3 (Dec)	1.33	Two pairs recorded (Feb & March) in woodland in north of survey area.
Buzzard	<i>Buteo buteo</i>		83.33%	6 (Mar)	2	Recorded in woodland next to Carr Lane and Wren Hall Lane, with two displaying pairs recorded above New Close Wood in March
Canada Goose	<i>Branta canadensis</i>		16.66%	8 (Oct)	1.33	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Carrion Crow	<i>Corvus corone</i>		100%	41 (Oct)	12	Widespread
Chaffinch	<i>Fringilla coelebs</i>		83.33%	8 (Dec)	4	Widespread
Chiffchaff	<i>Phylloscopus collybita</i>		16.66%	4 (Mar)	0.66	Recorded in woodland across survey area
Coal Tit	<i>Periparus ater</i>		50%	2 (Jan & Nov)	0.83	Recorded in woodland across survey area
Coot	<i>Fulica atra</i>		100%	34 (Feb)	16.5	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Cormorant	<i>Phalacrocorax carbo</i>		33.33%	2 (Jan & Oct)	0.66	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Dunnock	<i>Prunella modularis</i>	S41, Amber	66.66%	6 (Feb)	1.83	Widespread. Three individuals recorded within the proposed converter station site (1 March & 2 Nov).
Gadwall	<i>Mareca strepera</i>	Amber	83.33%	69 (Nov)	27.16	Waterbody to the south of Wren Hall Lane in the southern part of the survey area

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Goldcrest	<i>Regulus regulus</i>		50%	2 (Feb & Nov)	0.83	Recorded in woodland and hedgerows across survey area
Goldeneye	<i>Bucephala clangula</i>	Red	16.66%	2 (Dec)	0.33	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Goldfinch	<i>Carduelis carduelis</i>		50%	3 (Jan)	0.83	Recorded in woodland and hedgerows across survey area
Great Spotted Woodpecker	<i>Dendrocopos major</i>		33.33%	1 (Oct & Nov)	0.33	Recorded in same area in south east of the survey area in October and November
Great Tit	<i>Parus major</i>		100%	11 (Feb)	4.83	Widespread
Greenfinch	<i>Chloris chloris</i>	Red	16.66%	1 (Dec)	0.16	One individual recorded in December
Jackdaw	<i>Coloeus monedula</i>		33.33%	10 (Jan)	2	Recorded in arable fields across survey area in January, October, and December.
Jay	<i>Garrulus glandarius</i>		16.66%	3 (Dec)	0.5	Three individuals recorded in woodland in December
Kestrel	<i>Falco tinnunculus</i>	Amber	50%	3 (incl 1 pair, Feb)	0.833	Mainly recorded in the south west of the survey area
Linnet	<i>Linaria cannabina</i>	S41, Red	50%	31 (Mar)	5.66	All individuals recorded in arable fields in the south part of the survey area
Little egret	<i>Egretta garzetta</i>	Annex 1	16.66%	1 (Jan)	0.16	Recorded in the drain south of the Old Nursery (Jan)
Little grebe	<i>Tachybaptus ruficollis</i>		33.33%	1 (Nov & Dec)	0.33	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Long-tailed Tit	<i>Aegithalos caudatus</i>		100%	15 (Oct)	8.33	Widespread
Magpie	<i>Pica pica</i>		33.33%	2 (Nov)	0.5	Two individuals recorded in November and one individual recorded in December within the survey area
Mallard	<i>Anas platyrhynchos</i>	Amber	100%	37 (Feb)	16.66	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Mistle Thrush	<i>Turdus viscivorus</i>	Red	50%	2 (Feb)	0.66	Three out of the four individuals were recorded within the proposed converter station site

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Moorhen	<i>Gallinula chloropus</i>	Amber	83.33%	5 (Oct)	2.33	Single bird recorded within proposed converter station site (Feb). Otherwise recorded from the waterbody to the south of Wren Hall Lane in the southern part of the survey area
Mute Swan	<i>Cygnus olor</i>		50%	4 (Jan & Feb)	1.83	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Peregrine	<i>Falco peregrinus</i>	Sch 1, Annex 1	33.33%	1 (Mar & Nov)	0.33	Single bird landed on pylon north of Carr Lane (March) and a single bird seen in field north of Carr Lane (Nov).
Pheasant	<i>Phasianus colchicus</i>		66.66%	1 (Jan, Mar, Nov & Dec)	0.66	Recorded in arable fields throughout the survey area
Pied Wagtail	<i>Motacilla alba</i>		66.66%	17 (Dec)	3.66	Widespread including five recorded foraging within the proposed converter station site (Dec)
Red-legged Partridge	<i>Alectoris rufa</i>		33.33%	4 (Oct)	0.83	Recorded in small numbers in arable field across survey area
Redwing	<i>Turdus iliacus</i>	Amber, Sch 1	50%	3 (Jan)	1.16	Seven birds recorded in total; no individuals recorded within the proposed converter station site
Reed Bunting	<i>Emberiza schoeniclus</i>	S41, Amber	16.66%	1 (Oct)	0.16	One individual recorded on Drain in south east of the survey area
Robin	<i>Erithacus rubecula</i>		100%	9 (Nov)	5.5	Widespread
Rook	<i>Corvus frugilegus</i>	Amber	50%	35 (Jan)	8.33	22 (Jan) & 11 (Feb)
Shoveler	<i>Anas clypeata</i>	Amber	50%	5 (Nov)	1.5	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Siskin	<i>Carduelis spinus</i>		16.66%	6 (Nov)	1	Recorded in woodland throughout the survey area in November
Skylark	<i>Alauda arvensis</i>	Red, S41	50%	1 (Feb, Oct, Nov)	0.5	Single birds recorded within the proposed converter station site (Feb & Nov) and one individual recorded in arable field in south-west of survey area (Oct)
Sparrowhawk	<i>Accipiter nisus</i>	Amber	16.66%	1 (Nov)	0.16	One female recorded in horse pasture within the survey area
Song Thrush	<i>Turdus philomelos</i>	S41, Amber	16.66%	2 (Oct)	0.33	In hedgerow next to Wren Hall Lane

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Starling	<i>Sturnus vulgaris</i>	S41, Red	16.66%	4 (Dec)	0.66	Four individuals recorded in woodland in south of the survey area
Teal	<i>Anas crecca</i>	Amber	16.66%	4 (Feb)	0.66	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Tufted Duck	<i>Aythya fuligula</i>		83.33%	9 (Mar)	3.66	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Wigeon	<i>Mareca penelope</i>	Amber	66.66%	80 (Jan)	16.5	Waterbody to the south of Wren Hall Lane in the southern part of the survey area
Woodpigeon	<i>Columba palumbus</i>	Amber	100%	120 (Feb)	42	Widespread
Wren	<i>Troglodytes troglodytes</i>	Amber	100%	4 (Oct & Nov)	2.66	Widespread
Yellowhammer	<i>Emberiza citrinella</i>	S41, Red	16.66%	1 (Nov)	0.16	One female recorded in arable field in western side of the survey area

Sch1 Species specially protected under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended).

Annex 1 Species listed on Annex 1 of the EC Birds Directive.

Red Bird species on the Red List of Birds of Conservation Concern 5 (Ref 9).

Amber Bird species on the Amber List of Birds of Conservation Concern 5 (Ref 9)

S41 Species of Principal Importance in England (NERC Act, 2006)

Frequency of occurrence for each species is expressed as a percentage of the number of surveys undertaken for each respective survey.

**Table J2: Landfall Wintering Bird Survey Area – Results Summary**

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	Amber	100%	200+ (Nov)	101+	Mainly recorded foraging/loafing in arable land within windfarm/north of windfarm. Also recorded at grassland north of Auburn Farm
Buzzard	<i>Buteo buteo</i>		33.33%	2 (Oct)	0.5	Single bird recorded in copse within (Nov)
Carrion Crow	<i>Corvus corone</i>		33.33%	35 (Oct)	6.66	Five birds recorded in March
Common Gull	<i>Larus canus</i>	Amber	66.66%	50+ (Dec)	22.5	Mainly recorded foraging/loafing in arable land within windfarm/north of windfarm. Also recorded at grassland north of Auburn Farm
Curlew	<i>Numenius arquata</i>	S41, Red	16.66%	1 (Mar)	0.16	Single bird foraging on grassland north of Auburn Farm
Great Black-backed Gull	<i>Larus marinus</i>	Amber	16.66%	1 (Jan)	0.16	Single bird loafing in windfarm

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Great Crested Grebe	<i>Podiceps cristatus</i>		16.66%	1 (Feb)	0.16	Single bird on sea
Greylag Goose	<i>Anser anser</i>	Amber	33.33%	500 (Dec)	91.66	Two skeins recorded in total (all overflying)
Herring Gull	<i>Larus argentatus</i>	S41, Red	66.66%	250+ (Dec)	99.83+	Mainly recorded foraging/loafing in arable land within windfarm/north of windfarm/north of Auburn Beck. Also recorded at grassland north of Auburn Farm
House Sparrow	<i>Passer domesticus</i>	Red	16.66%	20+ (Nov)	3.33+	Recorded from clifftop (flew from direction of Stockyard Farm)
Jackdaw	<i>Coloeus monedula</i>		16.66%	20 (Dec)	3.33	Recorded from arable and near windfarm
Lesser Black-backed Gull	<i>Larus fuscus</i>	Amber	33.33%	10 (Dec)	1.83	Ten recorded from windfarm (Oct) and a single bird recorded from the grassland north of Auburn Farm
Meadow Pipit	<i>Anthus pratensis</i>	Amber	33.33%	4 (Nov)	1	Four birds (Nov)
Oystercatcher	<i>Haematopus ostralegus</i>	Amber	50%	37 (Oct)	9.83	Recorded foraging/loafing in grassland north of Auburn Farm. A single overflying bird recorded.
Pied Wagtail	<i>Motacilla alba</i>		33.33%	1 (Nov & Dec)	0.33	Single bird recorded (Dec)
Pink-footed Goose	<i>Anser brachyrhynchus</i>	Amber	16.66%	205+	34.16+	Five birds flew from Bridlington Bay and landed immediately outside the western boundary of the Survey Area (Oct). A skein of 200+ overflowed the western boundary of the Survey Area in a southerly direction (Oct)
Red-breasted Merganser	<i>Mergus serrator</i>	Amber	16.66%	4 (Feb)	0.66	Flock of four birds flying south over sea
Rook	<i>Corvus frugilegus</i>	Amber	66.66%	50+ (Dec, Feb & Mar)	30.33+	Foraging arable land
Sanderling	<i>Calidris alba</i>	Amber	83.33%	22 (Dec)	13.33	Recorded on the intertidal habitat (beach) within the Landfall Wintering Bird Survey Area.)
Skylark	<i>Alauda arvensis</i>	S41, Red	16.66%	1 (Nov)	0.16	Single bird recorded from arable habitat (Nov)
Starling	<i>Sturnus vulgaris</i>	S41, Red	66.66%	200+ (Nov & Dec)	76.66	Twenty recorded in March. Otherwise recorded near Stackyard Farm, NW of Auburn Beck and grassland north of Auburn Farm
Stock Dove	<i>Columba oenas</i>	Amber	16.66%	4 (Nov)	0.66	Foraging arable land near Auburn Beck
Stonechat	<i>Saxicola rubicola</i>		16.66%	1 (Dec)	0.16	Single bird recorded from cliff
Woodpigeon	<i>Columba palumbus</i>	Amber	16.66%	500+ (Nov)	83.33+	Recorded from arable habitat within windfarm

Sch1 Species specially protected under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended).

Annex 1 Species listed on Annex 1 of the EC Birds Directive.

Species	Latin Names	Conservation Status	Frequency of Occurrences (n=6)	Peak Count	Mean Count	Comments
Red Amber NERC S41	Bird species on the Red List of Birds of Conservation Concern 5 (Ref 9). Bird species on the Amber List of Birds of Conservation Concern 5 (Ref 9). Species of Principal Importance in England					<i>Frequency of occurrence for each species is expressed as a percentage of the number of surveys undertaken for each respective survey.</i>

**Table J3: Incidental AECOM Records of Wintering Waders at Bridlington Bay intertidal habitat between Barmston (NGR: TA 16886 61405) and Bridlington Pier (NGR: TA 18260 66427) [11th January 2021]**

Species	Number	Total No. of Birds (Barmston-Bridlington)	Location	Grid Reference	Relationship to planning application boundary	
					Within	Outside
Sanderling	6	10	Beach adjacent to Wilsthorpe	TA 17447 64567	No	Yes (>900 m)
Sanderling	4		Beach at Bridlington	TA 18145 66071	No	Yes (>2.5 km)
Turnstone	5	7	Sea wall adjacent to Wilsthorpe	TA 17436 65086	No	Yes (>1.5 km)
Turnstone	2		Bridlington Pier	TA 18260 66427	No	Yes (>2.5 km)
<b>Survey Details</b>						
Date: 11/01/21; Time: 11:30-12:30; Tide: Rising tide (LT at 08:56 [1.44m] &HT at 15:01 [5.56m]); Weather: F4 SW wind, dry, 100% cloud, 7°C, >3km visibility						



## Annex 11: Confidential Barn Owl Records

All incidental sightings of barn owl were recorded during the extended Phase 1 walkover ecology surveys conducted by AECOM throughout 2021, the methodologies for which can be found within the **Appendix 7A: Preliminary Ecological Appraisal Report (PEAR)**. The records provided by NEYEDC are also included; and cover the Desk Study Area (other than BTO).

**Table K1. Incidental records of barn owl recorded during AECOM 2021 Extended Phase 1 Surveys and returned from NEYEDC desk study**

Record description				Data point source		Record Location	
Record type	Grid reference	Breeding status	Year of Record	Data search	AECOM ecological surveys*	Within Onshore Planning Application Boundary	EIA Route Section Break
Unknown	TA0654	Unknown	2012	NEYEDC		x	1
Individual observed	SE975501	Unknown. One barn owl observed	2015	NEYEDC		x	1
Individuals observed	TA060580	Possible. Two barn owls observed	2016	NEYEDC		x	1
Individual observed	TA1354604	Unknown. One barn owl flushed out of semi mature ash.	2021		✓	✓	1
Individual observed	TA132607	Unknown. One barn owl flushed out of semi mature sycamore.	2021		✓	✓	1
Individual observed	SE882408	Unknown. One barn owl observed	2018	NEYEDC		x	2
Individual observed	SE914434	Unknown. One barn owl observed	2018	NEYEDC		✓	2
Individual observed	SE863367	Unknown. One barn owl observed	2019	NEYEDC		x	2
Unknown	SE790345	Unknown	2014	NEYEDC		x	3
Anecdotal record	SE850369	Unknown. Anecdotal record of barn owls residing in barns.	2021		✓	✓	3
Individual observed	SE711282	Unknown. Barn owl flushed from ask during survey	2021		✓	✓	3
Individual observed	SE664286	Unknown. One barn owl observed.	2011	NEYEDC		x	4
Unknown	SE658284	Unknown	2017	NEYEDC		x	4
* Barn owl records from AECOM surveys were recorded as incidental records during Phase 1 Habitat surveys.							

