

Document Reference: NCC/EX/84

# The Norfolk County Council (Norwich Northern Distributor Road (A1067 to A47(T))) Order

# Breydon Water, The Broads and Broadland - Habitat Regulations Assessment

Planning Act 2008

Infrastructure Planning

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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#### Norwich Northern Distributor Road Application for Development Consent Order

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#### Norwich Northern Distributor Road Application for Development Consent Order

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This document is submitted in relation to the application for a proposed development by Norfolk County Council to the Planning Inspectorate, under the Planning Act 2008.

The application is for the Norfolk County Council (Norwich Northern Distributor Road (A1067 to A47(T))) Order, to grant development consent for the construction of a new highway running west-east between the A1067 Fakenham Road and the A47 Trunk Road at Postwick, including improvements to the existing highway network to the north and north east of Norwich.



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#### 1. Introduction

#### 1.1 Background

- 1.1.1 Mott MacDonald Ltd was appointed by Norfolk County Council to undertake a Habitats Regulations Assessment, in support of the development consent application for the Norwich Northern Distributor Road (NDR) Project in Norfolk ('the project'). The findings of this assessment are presented in this document which constitutes a Habitats Regulations Report in accordance with the requirements of the Highways Agency's Design Manual for Roads and Bridges Volume 11 Section 4 Part 1 (HD 44/09) and Interim Advice Note 141/11.
- 1.1.2 The NDR is a project of national significance which requires a DCO under the Planning Act 2008. In accordance with Regulation 5(2)(g) of The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended) (The APFP Regulations) the development consent application must be accompanied by a report identifying any Natura 2000 site ('European site') or any Ramsar site, which may be affected by the proposed development, together with sufficient information that will enable the Competent Authority if required to make an appropriate assessment of the implications for the site.

#### 1.2 Purpose of the Habitats Regulations Assessment

- 1.2.1 In accordance with Article 6(3) of the Habitats Directive 'Article 6 Assessments' are required where a plan or project not directly connected with or necessary to the management of a Natura 2000 site(s), may give rise to significant effects upon a Natura 2000 site(s). The requirement for Article 6 Assessments has been transposed into UK law under Regulation 61(2) of the Conservation of Habitats and Species Regulations 2010 ('Habitats Regulations') (S.I. 2010/490) (as amended) and is commonly referred to as a 'Habitats Regulations Assessment' (HRA) or an 'Appropriate Assessment' (AA). 'Appropriate Assessment' is taken to mean an assessment which is "appropriate to its purpose under the Habitats Directive and Habitats Regulations" and is not to be confused with the second of the Article 6 Assessments with the same name (Department for Communities and Local Government (DCLG), 2006).
- 1.2.2 Natura 2000 sites include Special Protection Areas (SPAs), Special Areas for Conservation (SACs), candidate SACs and proposed SPAs, as well as Sites of Community Importance (SCIs) which have been adopted by the EC, but not



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yet formally designated by the government of Member State. In the UK, Ramsar sites are also required to undergo an assessment when a plan or project is considered likely to have a significant effect upon a site (Department for Environment, Food and Rural Affairs (Defra), 2006). Herein Ramsar sites are also referred to as Natura 2000 sites.

- 1.2.3 Before deciding to undertake a plan or project that may give rise to significant effects upon a Natura 2000 site, and that is not directly connected with or necessary to the management of a Natura 2000 site, a Competent Authority must make an assessment of the implications for that site in view of that site's conservation objectives. In the context of a DCO application under the Planning Act 2008 the Secretary of State is considered to be the Competent Authority with regard to Regulation 7(1) of the Habitats Regulations (The Planning Inspectorate, 2012). The Competent Authority must also consult with the Statutory Nature Conservation Body (SNCB), in this case Natural England (NE), and have regard to any representations made by that body. If other regulatory regimes require an HRA the applicant should also consult with the relevant competent authorities to determine if they are likely to adopt the outcomes of the HRA carried out by the Competent Authority under the Planning Act 2008.
- 1.2.4 The HRA is undertaken in a series of stages in the case of the assessment of projects (DCLG, 2006). These stages correspond with the Article 6 Assessments prescribed by the Habitats Directive (Figure 1.1). Each stage determines whether further stages in the process are required. The first stage identifies likely significant effects by identifying the presence or absence of significance indicators. If the conclusion of Stage 1 is that there will be no significant impacts on the Natura 2000 site, there is no requirement to undertake further stages.

#### 1.3 Methodology

1.3.1 This Screening Assessment has been undertaken in accordance with Design Manual for Roads and Bridges (DMRB) Volume 11 Section 4 Part 1 (HD 44/09) and supporting guidance contained in IAN 141/11 Assessment of Implications (of Highways and/or Roads Projects) on European Sites (Including Appropriate Assessment) and the Planning Act 2008. These documents provide guidance for assessment of the implications of highway construction or improvement projects, including technology or maintenance projects on 'European Sites', where such sites are designated for their nature conservation interests.



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1.3.2 Decommissioning has not been considered as there is sufficient uncertainty with regards to whether the road would be decommissioned at any time in the future. Such a plan would be subjected to a Habitats Regulations Assessment, taking into account the baseline conditions at such a time in the future that may differ markedly from the current baseline condition.

#### 1.4 Area of Interest

- 1.4.1 The locations of the designated sites under consideration in this report are in Appendix B the following sites were considered:
  - Breydon Water SPA 15.2km from the Scheme
  - Breydon Water Ramsar 15.2km from the Scheme
  - Broadland SPA 1.7km from the Scheme
  - Broadland Ramsar 1.7km from the Scheme
  - Broads SAC 1.7km from the Scheme
- 1.4.2 These sites are not directly affected by the works but are predicted to experience an increase in traffic flows on adjacent roads as a result of the NDR. Consultation with Natural England (NE) and the Environment Agency (EA) has been undertaken (Appendix A).

#### Wensum SAC

1.4.3 It should be noted that an Appropriate Assessment has been undertaken for the Wensum SAC and can be found in Volume 2 Chapter 17 of the Environmental Statement (Doc Ref 6.2) a subsequent addendum to the HRA has been produced and been submitted to NE and the EA. This has resulted in production of a Mitigation Management Action Plan (MMAP) that seeks to prevent silt from entering the Wensum SAC and to provide for betterment. The MMAP will be agreed by NE and the EA and be secured through the DCO Requirement 25.



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#### 2. Screening Information Checklist

#### 2.1 Checklist

2.1.1 The following checklist DMRB Vol 11 Part 1 Section 4 Annex B determines if the appropriate level of information is available in order to undertake the assessment.

Table 2.1: Screening Information Checklist

Screening	
Project reference: NDR	
Date of completion: July 2014	
Author: J Fookes	
Verified: M Frith	
Have those features of the project been identified?	
Have these features of the project been identified?	
Size, scale, area, land-take, etc.	Yes
Physical and Biological characteristics of area affected by the project	Yes
Physical changes that will flow from the project (from excavation, piling, dredging, etc.)	Yes
Resource requirements (water abstraction etc.)	Yes
Emissions and waste (disposal to land, water or air)	Yes
Transportation requirements	Yes
Duration of construction, operation, etc.	Yes
Project programme	Yes
Distance from European Site	Yes



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Information on qualifying interests of the European Site	Yes
Cumulative impacts with other projects or plans (with indication of assumptions)	Yes
Sources of information:	
Environmental Statement for the NDR (Doc Ref 6.1 and 6.2)	
Natura 2000 Standard Data form for the Site	
Are the following known:	
Are the following known:	
Full characteristics of the project which may affect the site	Yes
Size and other specifications of the project	Yes
The characteristics of existing, proposed or other approved projects or plans which may cause interactive or cumulative impacts with the probeing assessed and which may affect the site	
Planned or contemplated nature conservation initiatives likely to affect status of the site in the future	t the Yes
The relationship (e.g. key distances, etc.) between the project and the European Site	Yes
The information requirements (e.g. EIA/SEA) of the Competent Autho	rity Yes
The reasons for the designation of the European Site	Yes
The conservation objectives of the site and the factors that contribute the conservation value of the site	to Yes
The conservation status of the site (favourable or otherwise)	Yes
The existing baseline condition of the site	Yes
The key attributes of any Annex I habitats or Annex II species on the	site Yes
The physical and chemical composition of the site	Yes
The dynamics of the habitats, species and their ecology	Yes



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Those aspects of the site that are sensitive to change	Yes
The key structural and functional relationships that create and maintain the site's integrity	Yes
The seasonal influences on the key Annex I habitats or Annex II species on the site	Yes
Other conservation issues relevant to the site, including likely future natural changes taking place	Yes



#### 3. Screening Matrices

#### 3.1 Breydon Water Ramsar



Name of European Site:	Breydo	n Water Ramsa	r.						
The Scheme: The Norw road, to be classified as Road (T) at Postwick. The	the A127	70 Principal Roa	d, which wo	uld link th	e A1067 Faken	_		•	
Distance to Proposed Sc	cheme: 1	5.215km							
European site features		Likely Effects on Scheme							
	Effect	1: Traffic Noise		Effect 2	: Air Quality		In Combina	tion Effects	
	С	0	D	С	0	D	С	0	D
Tundra swan , Cygnus columbianus bewickii	None	None	N/A	None	None	N/A	None	None	N/A
171 individuals, representing an average of 2.1%		Increases of traffic flows along the			Increases of traffic flows along the				
of the GB population (5 year peak mean		Acle Straight of 4% in 2017 and 8% in			Acle Straight of 4% in 2017				



1998/9-	2032. For	and 8% in	
0000(0)	noise the rise	2032.	
2002/3)	in traffic flows	Could give	
	equates to a	rise to	
	less than 1db	increases in	
Northern lapwing ,	increase in	No <sub>x</sub>	
Vanellus vanellus	noise levels.	emissions.	
20142 individuals,	This would be	NOx: no	
representing an	imperceptible	effects are	
average of	to bird	predicted	
	populations	with the	
1.3% of the GB	either	exception of	
population (5 year peak	adjacent to or	where NOx	
mean	at a distance	increases	
1998/9-2002/3)	from traffic	are above	
1000/0 2002/0/	using the A47.	2ug/m3. this	
	A47.	level	
This site is an inland		reduces to	
		below these	
tidal estuary at the mouth of the River Yare		limits within	
and its confluence with		10m of the	
the Rivers		adjacent	
nie iziveis		road, which	
Bure and Waveney and		takes in the	



an adjacent area of	verges and
drained floodplain. It	margins.
has extensive areas of	Therefore
mudflats that	there are no
	predicted
are exposed at low tide	effects on
and these form the only	the site local
tidal flats on the east	area or on
coast of Norfolk. It	the
contains a	designated
large area of lowland	site as a
wet grassland. Breydon	whole.
Water is internationally	
important for wintering	
important for wintering	
waterfowl.	
-	



#### 3.2 Breydon Water SPA



The Scheme: The Norwich Northern Distributor Road, known as "the NDR" is a dual carriageway all-purpose strategic distributor road, to be classified as the A1270 Principal Road, which would link the A1067 Fakenham Road, near Attlebridge, to the A47 Trunk Road (T) at Postwick. This will be over a length of approximately 20.4 km

Likely Effects on Scheme

Distance to Proposed Scheme: 15.215km

European site features

Laropour one reatares				Linoi	y 2110010 011 <b>0</b> 0				
	Effect	1: Traffic Noise		Effect 2	2: Air Quality		In Combin	ation Effects	5
	С	0	D	С	0	D	С	О	D
Common Tern Sterna hirundo,	None	None	N/A	None	None	N/A	None	None	N/A
Avocet Recurvirostra avosetta,		Increases of traffic flows			Increases of traffic flows				
Bewick's Swan <i>Cygnus</i> columbianus bewickii,		along the Acle Straight			along the Acle				
Golden Plover Pluvialis		of 4% in 2017 and 8% in		10	Straight of 4% in 2017				



apricaria,  Breydon Water is located at the extreme east of England on the coast of Norfolk. The site is an inland tidal estuary at the mouth of the River Yare and its confluence with the Rivers Bure and Waveney. It has extensive areas of mudflats that are exposed at low tide and these form the only tidal flats on the east coast of Norfolk. There are also extensive areas of floodplain grassland adjacent to the intertidal areas. Breydon Water is internationally important for wintering waterbirds, some of which feed in	2032. For noise the rise in traffic flows equates to a less than 1db increase in noise levels. This would be imperceptible to bird populations either adjacent to or at a distance from traffic using the A47.	and 8% in 2032. Could give rise to increases in No <sub>x</sub> emissions.  NOx: no effects are predicted with the exception of where NOx increases are above 2ug/m3. this level reduces to below these limits within 10m of the adjacent road, which takes in the	
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--



the Broadland SPA that	verges and
adjoins this site at	margins.
Halvergate Marshes.	Therefore
	there are no
	predicted
	effects on
	the site local
	area or on
	the
	designated
	site as a
	whole.



#### 3.3 The Broads SAC



Natural eutrophic

lakes with

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Name of European Site:	The B	roads SAC							
The Scheme: The Norv						_		_	
road, to be classified as Road (T) at Postwick. The		•				ınam Ro	ad, near Attie	ebriage, to th	3 A47 Trunk
rtoda (1) at 1 ostwick. 11	iio wiii be	over a lenç	giri or approxii	natcry 20.4	Kill				
Distance to Proposed Sc	heme: 1	.7km							
Europoon sito footuros				Liko	ly Efforts on So	homo			
European site features				LIKE	ly Effects on Sc	neme			
	Effect	1: Traffic No	oise	Effect 2	2: Air Quality		In Combi	nation Effect	S
	С	0	D	С	O D		С	0	D
		U							
<ul> <li>Hard oligo-</li> </ul>	None	None	N/A	None	None	N/A	None	None	N/A
mesotrophic									
waters with benthic					1.				
vegetation of					Increases of				
Chara spp.					traffic flows along the				
					Acle				
<ul> <li>Natural eutrophic</li> </ul>					1				

Straight of

4% in 2017



Magnopotamion	and 8% in
or Hydrocharition	2032.
- type vegetation	Could give
yr o regermen	rise to
Transition mires	increases in
and quaking	No <sub>x</sub>
bogs	emissions.
Calcareous fens	NOx: no
with <i>Cladium</i>	effects are
mariscus and	predicted
species of the	with the
Caricion	exception of
davallianae *	where NOx
Priority feature	increases
Alkaline Fens	are above
• Alkaline rens	2ug/m3. this
Desmoulin`s	level
whorl snail	reduces to
Vertigo	below these
moulinsiana.	limits within
	10m of the
Fen orchid	adjacent
Liparis loeselii	road, which
	takes in the



Ramshorn snail Anisus	verges and
vorticulus	margins.
	Therefore
	there are no
	predicted
	effects on
	the site local
	area or on
	the
	designated
	site as a
	whole.



#### 3.4 Broadland SPA



The Scheme: The Norwich Northern Distributor Road, known as "the NDR" is a dual carriageway all-purpose strategic distributor road, to be classified as the A1270 Principal Road, which would link the A1067 Fakenham Road, near Attlebridge, to the A47 Trunk Road (T) at Postwick. This will be over a length of approximately 20.4 km

Likely Effects on Scheme

Distance to Proposed Scheme: 1.7 km

European site features

Ediopodii olio iodidioo				LINO	iy 2110010 011 <b>0</b> 0				
	Effect	1: Traffic Noise		Effect 2	2: Air Quality		In Combination Effects		
	С	0	D	С	0	D	С	0	D
Bittern Botaurus stellaris, 3 individuals representing up to 15.0% of the breeding population in Great Britain (Count as at 1998)	None	None Increases of traffic flows along the Acle Straight	N/A	None	None Increases of traffic flows along the Acle	N/A	None	None	N/A
Marsh Harrier Circus		of 4% in 2017 and 8% in			Straight of 4% in 2017				





cyaneus, 22 individuals	verges and
representing up to 2.9%	margins.
of the wintering	Therefore
population in Great	there are no
Britain (5 year peak	predicted
mean 1987/8-1991/2)	effects on
	the site local
Ruff Philomachus	area or on
pugnax, 96 individuals	the
representing up to	designated
13.7% of the wintering	site as a
population in Great	whole.
Britain (5 yr peak mean	
87/8-91/2)	
Whooper Swan	
Cygnus cygnus, 133	
individuals representing	
up to 2.4% of the	
wintering population in	
Great Britain (5 yr peak	
mean 93/4-97/8)	
mean 30/4-31/0)	
This site also qualifies	
under Article 4.2 of the	



Directive (79/409/EEC)				 	
by supporting					
populations of					
European importance of					
the following migratory					
species:					
Over winter;					
Gadwall Anas strepera,					
605 individuals					
representing up to 2.0%					
of the wintering					
Northwestern Europe					
population (RSPB:					
Count 99/00)					
Pink-footed Goose					
Anser brachyrhynchus,					
3,290 individuals					
representing up to 1.5%					
of the wintering Eastern					
Greenland/Iceland/UK					
population (5 yr peak					
mean 94/5-98/9)					



Shoveler Anas					
clypeata, 401					
individuals representing					
up to 1.0% of the					
wintering					
Northwestern/Central					
Europe population					
(RSPB: Count 99/00)					
A co comble ve					
Assemblage					
qualification: A wetland of international					
importance.					
The area qualifies					
under Article 4.2 of the					
Directive (79/409/EEC)					
by regularly supporting					
at least 20,000					
waterfowl					
Over winter, the area					
regularly supports					
22,603 individual					
waterfowl (RSPB,					
wateriowi (INSFD,					



Count 99/00) including:					
Cormorant					
Phalacrocorax carbo,					
Bewick's Swan Cygnus					
columbianus bewickii,					
Whooper Swan Cygnus					
cygnus, Ruff					
Philomachus pugnax,					
Pink-footed Goose					
Anser brachyrhynchus,					
Gadwall Anas strepera,					
Bittern Botaurus					
stellaris, Great Crested					
Grebe Podiceps					
cristatus, Coot Fulica					
atra, Bean Goose Anser					
fabalis, White-fronted					
Goose Anser albifrons					
albifrons, Wigeon Anas					
penelope, Teal Anas					
crecca, Pochard Aythya					
ferina, Tufted Duck					
Aythya fuligula,					
Shoveler Anas					



		1			
clypeata.					
Broadland is a low-lying					
wetland complex					
straddling the					
boundaries between					
east Norfolk and					
northern Suffolk in					
eastern England. The					
Broads are a series of					
flooded medieval peat					
cuttings. They lie within					
the floodplains of five					
principal river systems,					
known as Broadland.					
The area includes the					
river valley systems of					
the Bure, Yare and					
Waveney and their					
major tributaries. The					
distinctive open					
landscape comprises a					
complex and interlinked					
mosaic of wetland					
habitats including open					



water, reedbeds, carr					
woodland, grazing					
marsh and fen meadow,					
forming one of the finest					
marshland complexes					
in the UK. The differing					
types of management of					
the vegetation for reed,					
sedge and marsh hay,					
coupled with variations					
in hydrology and					
substrate, support an					
extremely diverse range					
of plant communities.					
The area is of					
international importance					
for a variety of wintering					
and breeding raptors					
and waterbirds					
associated with					
extensive lowland					
marshes. The estuary					
at the mouth of					
Broadland is Breydon					



Water SPA, and the two					
sites adjoin each other					
at Halvergate Marshes.					
Breeding and wintering					
raptors, and wintering					
waterbirds spend time					
on feeding areas					
outside the SPA					
boundary.					



#### 3.5 The Broadland Ramsar



Name of European Site: The Roadland Ramsar										
The Scheme: The Norw road, to be classified as t Road (T) at Postwick. The	he A127	0 Principal Road	d, which wou	uld link the	e A1067 Faker	_		<del>-</del>		
Distance to Proposed Sci	heme: 1	.7 km								
European site features	Likely Effects on Scheme									
	Effect 1: Traffic Noise			Effect 2	Effect 2: Air Quality			In Combination Effects		
	С	0	D	С	0	D	С	0	D	
Tundra swan , Cygnus columbianus bewickii,	None	None	N/A	None	None	N/A	None	None	N/A	
Eurasian wigeon , Anas penelope,		Increases of traffic flows			Increases of traffic flows					
Gadwall , Anas strepera strepera,		along the Acle Straight			along the Acle					
Northern shoveler,		of 4% in 2017 and 8% in			Straight of 4% in 2017					



Anas clypeata,	2032. For	and 8% in	
	noise the rise	2032.	
Broadland is a low-lying	in traffic flows	Could give	
wetland complex	equates to a	rise to	
straddling the	less than 1db	increases in	
boundaries between	increase in	No <sub>x</sub>	
east Norfolk and	noise levels.	emissions.	
northern Suffolk. The area includes the river valley systems of the Bure, Yare and Waveney and their major tributaries. The open distinctive landscape comprises a complex and interlinked mosaic of wetland habitats including open water, reedbeds, carr woodland, grazing marsh and fen meadow.	This would be imperceptible to bird populations either adjacent to or at a distance from traffic using the A47.	NOx: no effects are predicted with the exception of where NOx increases are above 2ug/m3. this level reduces to below these limits within 10m of the adjacent road, which	



region is important for recreation, tourism, agriculture and wildlife.	verges and margins. Therefore there are no predicted effects on the site local area or on the designated site as a whole.	



**Appendix A: Natural England** 



**Appendix B: Location of Designated Sites**