



# **Norwich Western Link**

## **Environmental Statement**

### **Chapter 12: Road Drainage and the Water Environment**

#### **Appendix 12.7: Road Drainage and the Water Environment In- Combination Assessment**

Author: WSP UK Limited

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## 1 In-Combination Assessment

- 1.1.1 This Appendix assesses the in-combination effects of the Proposed Scheme in relation to Road Drainage and the Water Environment.
- 1.1.2 In-combination effects are defined as: the combined effects of a number of different projects in the vicinity of the Proposed Scheme (in combination with the Proposed Scheme) on a common sensitive receptor category and / or a single receptor / resource.
- 1.1.3 The following table presents the committed developments deemed to have the potential for significant effects in combination with the Proposed Scheme, and assesses the likelihood of any significant effects in regards to Road Drainage and the Water Environment. Information on the assessment methodology can be found in **Chapter 20: Cumulative Assessment** (Document Reference: 3.20.00).
- 1.1.4 The conclusions of this appendix are used to inform the assessment within **Chapter 20: Cumulative Assessment** (Document Reference: 3.20.00).

**Table 1.1 – In-Combination Assessment of Committed Development Short List**

<b>ID</b>	<b>Application Name and Reference</b>	<b>Applicant for 'Other development' and brief description</b>	<b>Distance from project</b>	<b>Status</b>	<b>Easting</b>	<b>Northing</b>	<b>Topic Assessment</b>
S1	20201769	Retention of 42m x 42m concrete hardstanding, building and bagging machinery; proposed increase of existing hardstanding area for bark processing / storage and erection of storage building.	1.72km	Full Approval 08/01/2021	609150	315276	It is unlikely that significant cumulative effects on road drainage and water environment receptors would occur due to the minor nature of the development, the distance to the Proposed Scheme and no hydraulic connectivity to the Proposed Scheme.
S2	20211831	Change of use of existing land to a campsite with associated toilet and shower block and reception / office space.	990m	Full Approval 14/12/2021	614953	314234	It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the minor nature of the development and the distance to the Proposed Scheme. It is assumed that appropriate mitigation has been included within the development to ensure no impacts on groundwater resources or the River Wensum.

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S3	20172148	Residential Development of up to 93 Dwellings with Associated Access, Parking & Open Space (Outline).	900m	Outline Approval 28/09/2018	615325	314396	It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the distance to the Proposed Scheme. It is assumed that appropriate mitigation has been included within the development to ensure no impacts on groundwater resources or the River Wensum. Some increase in sediment and pollution loading may occur during the construction of this development. If construction were to occur at the same time as the Proposed Scheme this could pose cumulative risk. However given the distance of this scheme to the River Wensum it is assumed that no adverse effect to the Wensum would occur and therefore no cumulative effect with the Proposed Scheme.
S4	20201332	Earth Bund directly north of the Northern Distributor Road (A1270), land that lies between the Fakenham Road and Fir Covert Road junctions.	845m	Full Approval 07/09/2020	615546	316118	It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the distance to the Proposed Scheme. It is also assumed that appropriate mitigation has been included within the development to ensure no impacts on groundwater resources or the River Wensum.

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S5	20171782	Hybrid planning application (part outline, part detailed), made up of: 1. An application for outline planning permission for the erection of a Class A1 retail unit; a Class A3 / A4 public house / restaurant; Class A3 / A5 fast food restaurant; and a Class A1 / A3 / B1 lifestyle leisure unit. 2. An application for full planning permission for the construction of a supermarket (Class A1), together with associated access, car parking and landscaping. The supermarket will comprise a total of 2,206 square metres, gross external footprint, and will be served by a total of 129 car parking spaces (of which 7 would be disabled spaces, and 8 parent and child spaces).	900m	Approval 12/02/2018	615728	315228	It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the distance to the Proposed Scheme. It is also assumed that appropriate mitigation has been included within the development to ensure no impacts on groundwater resources or the River Wensum.

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S6	DCO	Proposed dual carriageway A47 North Tuddenham to Easton. Also PINS application (row 568) - Dualling of the single carriageway section of the A47 between Norwich and Dereham, linking together two existing sections of dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to be determined.	0m	Granted	Not applicable	Not applicable	<p><b>Appendix 12.1 Drainage Network Water Quality Assessment</b> (Document Reference: 3.12.01) has included the A47 North Tuddenham to Easton scheme within the assessment as NWL Basin 6 discharges into the surface water drainage system of the scheme. The cumulative discharge from the outfall has been assessed in the assessment of routine runoff during operation. The assessment concluded that appropriate mitigation is included within the design of the Proposed Scheme.</p> <p>Some increase in sediment and pollution loading in the River Tud may occur during the construction of this scheme. If sections of the Proposed Scheme in the catchment of the River Tud are constructed at the same time as the A47 North Tuddenham to Easton scheme there may be a cumulative increase in sediment and pollution risk. However, assuming robust mitigation is implemented by the contractor it is not considered likely that this would result in significant effect beyond that assessed in the EIA for the Proposed Scheme.</p>

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S7	DCO	Hornsea Project Three Offshore Wind Farm	0m	Granted 31/12/20	Not applicable	Not applicable	<p>It is assumed that appropriate mitigation has been included within the development to ensure no impacts on the River Wensum or to the quality or quantity of groundwater receptors. As a result, it is unlikely that significant cumulative effects on flood risk receptors would occur due to the distance between the two schemes.</p> <p>Some increase in sediment and pollution loading during construction if physical works are undertaken within the floodplain or the river channel of the River Wensum at the same time as the Proposed Scheme. There is also a risk that there could be cumulative WFD effect if there are any modifications to any riparian habitats or the watercourse channel are undertaken. However, assuming robust mitigation is implemented by the contractor it is not considered likely that this would result in significant effect beyond that assessed in the EIA for the Proposed Scheme.</p>
S8	20190021	Part Change of Use from C3 to D2 for the Use of the Site as a Wedding Venue for up to 20 Weddings per Year & Use of Buildings and Marquee in Association with Wedding Venue (Retrospective).	800m	Approved 21/03/19	612994	314662	<p>It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the minor nature of the development.</p>



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S9	2022/0509	Ground mounted solar photovoltaic (PV) farm with battery storage; along with continued agricultural use, ancillary infrastructure and security fencing, landscaping provision, ecological enhancements and associated works including underground cabling.	1.6km	Approval with Conditions 30/06/2022	609476	309832	It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the distance to the Proposed Scheme and no hydraulic connectivity to the Proposed Scheme.
S10	DCO	Norfolk Boreas Offshore Wind Farm - onshore cable route.	6.3km	Granted	Not applicable	Not applicable	It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the distance to the Proposed Scheme, assuming the implementation of standard mitigation to manage potential effects on the River Wensum during construction.
S11	DCO	Equinor Sheringham Shoal & Dudgeon Wind Farm Extension Project.	0m	Not yet approved	Not applicable	Not applicable	It is assumed that appropriate mitigation has been included within the development to ensure no impacts on the River Wensum or to the quality or quantity of groundwater receptors. As a result, it is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur.

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S12	GNLP0337R	<p>Allocation: This is a strategic-scale site well-related to the existing edge of Thorpe Marriott with no major constraints to make the site unsuitable for development. The site will need to be masterplanned to provide a local centre, community and recreation facilities including a school and medical care facility. Highway improvements will be needed including provision of roundabout access at Fir Covert Road, priority access at Reepham Road and traffic signals at the A1067 Fakenham Road / Fir Covert Road.</p>	1.3km	Allocation detailed in the Greater Norwich Local Plan	615968	315466	<p>It is unlikely that significant cumulative effects on flood risk receptors would occur due to the distance to the Proposed Scheme. It is assumed that appropriate mitigation would be included regarding the surface water drainage system.</p> <p>Some increase in sediment and pollution loading during construction if physical works are undertaken within the floodplain or the river channel of the River Wensum at the same time as the Proposed Scheme. There is also a risk that there could be cumulative WFD effect if there are any modifications to any riparian habitats or the watercourse channel are undertaken. However, assuming robust mitigation is implemented by the contractor it is not considered likely that this would result in significant effect beyond that assessed in the EIA for the Proposed Scheme.</p>

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S13	GNLP0159R	Allocation: This site off Beech Avenue is allocated with access via the adjacent site with planning permission (20191065) under the same land ownership. The total area allocated reflects the mature trees on site as well as other buildings shown on the site map below.	1.1km	Allocation detailed in the Greater Norwich Local Plan	615139	314276	<p>It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the distance to the Proposed Scheme. It is assumed that appropriate mitigation would be included within the development to ensure no impacts on groundwater resources or the River Wensum.</p> <p>Some increase in sediment and pollution loading may occur during the construction of this development. If construction were to occur at the same time as the Proposed Scheme this could pose cumulative risk. However given the distance of this scheme to the River Wensum it is assumed that no adverse effect to the Wensum would occur and therefore no cumulative effect with the Proposed Scheme.</p>
S14	Complementary Sustainable Transport Measures (described in the <b>Sustainable Transport Strategy</b> (Document Reference: 4.02.00))	Cycle friendly improvements within the highway boundary.	0m	Potential Application	612493	315136	<p>It is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur due to the minor nature of the development.</p>

ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S15	2023/2200	Excavation of soils to construct an irrigation reservoir at Wensum Valley Golf and Country Club.	150m	Approved 15/01/24	615320	314395	Some increase in sediment and pollution loading in the River Wensum may occur during the construction of this scheme. If sections of the Proposed Scheme in the catchment of the River Wensum are constructed at the same time as the Wensum Valley Hotel scheme there may be a cumulative increase in sediment and pollution risk. However, assuming robust mitigation is implemented by the contractor it is not considered likely that this would result in significant effect beyond that assessed in the EIA for the Proposed Scheme.
S16	2023/2575	Installation of pre construction field drainage to support the operation of the Hornsea Project Three onshore export cable route (EIA Development)	0m	Pending Consideration	612225	314262	It is assumed that appropriate mitigation has been included within the development to ensure no changes to local sources of flood risk. As a result, it is unlikely that significant cumulative effects on the road drainage and the water environment receptors would occur.