

Daventry Part 2a Local Plan: note relating to water and water recycling infrastructure capacity (November 2017)

Anglian Water has made an initial assessment of the available capacity of existing water and water recycling infrastructure to serve the proposed allocations sites included in the Part 2a Local Plan. The findings of this assessment are set out in the table on page 5.

In addition Anglian Water has provided an explanation of the methodology used as part of this assessment and how the table should be interpreted as set out below.

Supporting Infrastructure	Comments
(Water) Resource	<p>Anglian Water’s Water Resource Management Plan (WRMP) 2015 outlines the projected supply-demand balance for each of the water resource zones (WRZs) within our statutory water supply area to 2040 including Daventry District.</p> <p>We have a statutory obligation under the Water Industry Act 1991 to propose appropriate supply and demand measures to ensure that we can continue to supply our existing and new customers. Consideration is given to reducing the potential demand for water before proposing supply measures in our WRMP.</p> <p>Water resource planning is undertaken on a much large scale than individual local authorities – it is undertaken on a sub-regional scale. For example the Ruthamford North WRZ includes the water supply systems for March, Peterborough, Corby, Kettering, Wellingborough, Northampton and Daventry.</p> <p>Therefore the availability of water resources within the Anglian Water region is unlikely to have any impact on the delivery of individual sites in Daventry District.</p> <p>To ensure that all opportunities are taken to reduce demand we are keen to promote measures to encourage improved water efficiency as part of new development including the inclusion of the optional higher water efficiency standard for residential development (110 litres/per person/per day) in Local Plans and innovation in water efficiency/re-use to contribute long term water resilience within</p>

Supporting Infrastructure	Comments		
	the Anglian Water region.		
Water supply (network)	Green: Capacity available within existing water supply network to serve the development without the need for reinforcement of existing water mains or contributions to strategic mains.	Amber: Improvements to existing water supply network which could include reinforcement of existing water mains and/or contributions to strategic mains expected subject to further assessment.	Red: Improvements required within the existing water supply network – likely to involve significant off-site reinforcement of existing water mains. Recommendation for site promoter to contact Anglian Water at earliest opportunity as modelling and solution development will be required
Water Recycling Centre (WRC) capacity¹	Green: Hydraulic and/or permitted capacity available at receiving WRC to serve anticipated foul flows based upon scale of proposed development. Assessment is time limited as it not possible to reserve capacity for specific developments. It is based	Amber: Hydraulic and/or permitted environmental capacity may not be available at receiving WRC to serve anticipated foul flows based upon scale of proposed development. Improvements within the WRC catchment e.g. infiltration reduction or at WRC site likely to be required. ²	Red: Hydraulic and/or permitted capacity not currently available at receiving WRC to serve anticipated foul flows based upon scale of proposed development. Improvements within the WRC catchment e.g. infiltration reduction or at WRC site expected to be required. ³ Assessment is time limited as it not possible to reserve capacity for specific developments. It is based upon the

¹ The scale of development for individual sites is compared against the requirements of the existing permit issued by the Environment Agency for the relevant WRC. This normally includes a flow and standards requirements relating to water quality unless it is a descriptive consent (normally very small sites). This assessment is based upon dry weather flow only.

² Anglian Water is responsible for any upgrade or similar at existing water recycling centres which are identified and funded through our business plan. The necessary improvements may include options such as removal or surface water flows, or optimisation of the works and will depend on individual circumstances and environmental drivers.

³ As above

Supporting Infrastructure	Comments		
	upon the scale and timing of development (if provided) and estimated foul flows.	Assessment is time limited as it not possible to reserve capacity for specific developments. It is based upon the scale and timing of development (if provided) and estimated foul flows.	scale and timing of development (if provided) and estimated foul flows.
Foul sewerage network capacity	Green: Capacity available within existing foul sewerage network to serve the estimated foul flows from the development without the need for reinforcement of existing foul sewers. (Based upon information provided at the time – would be re-assessed at planning application stage).	Amber: Improvements to existing foul sewerage network to serve foul flows from the development required to avoid increased risk of flooding – subject to further assessment	Red: Improvements required within the existing foul sewerage network required to avoid increased risk of flooding – likely to involve significant off-site reinforcement of existing sewers. Normally for schemes of a significant scale e.g. sustainable urban extensions or where a significant distance from existing foul sewerage network. Recommendation for site promoter to contact Anglian Water at earliest opportunity as modelling and solution development will be required.
Surface water network capacity	<p>Anglian Water strongly support the use of Sustainable Drainage Systems (SuDS) as it would help to reduce the risk of surface water and sewer flooding within our area of responsibility.</p> <p>Where it proposed to discharge surface water into the public sewerage network we expect applicants to have demonstrated that there are no feasible alternatives –having worked with the LLFA and followed the surface water hierarchy outlined in Part H of Building Regulations. This includes providing appropriate evidence e.g. percolation tests.</p>		

Supporting Infrastructure	Comments
Asset encroachment	<p>Where there are sewers or water mains crossing the site, the site layout should be designed to take these into account; this existing infrastructure is protected by easements and should not be built over or located in private gardens where access for maintenance and repair could be restricted. The sewers or mains should be located in highways or public open space. If it is not possible to accommodate the existing sewers or mains within the design then diversion may be possible under section 185 of the Water Industry Act 1991 or entering into a build over/near agreement may be considered.</p> <p>Further information can be found on our website at the following link http://www.anglianwater.co.uk/developers/encroachment.aspx;</p>

Site Ref	Parish	Site Address	Site Area (Ha)	Housing Nos.	Proposed Site Use	Assets Affected	Assets Affected Comments	Water			Used Water			Overall RAG rating	
								Resource	Supply Network	Water Comments	Water Recycling Centre (WRC)	WRC capacity	Used Water Network capacity		Used Water Comments
Apex Park (proposed extension)	Abbey Nth	Nasmyth Rd, Daventry	14	Employment	Employment	Green		Green	Amber	This development may require off-site works and the anticipated timescale to deliver these off-site works could be up to 12 months.	WHILTON STW	Green	Amber		Amber
Central Daventry	Abbey Sth	Various town centre (see 'overall map')	7.09	300 (upper range, not fixed)	Mixed use	Amber	Water mains, foul and surface water sewers	Green	Amber	This development may require off-site works and the anticipated timescale to deliver these off-site works could be up to 12 months.	WHILTON STW	Green	Amber		Amber
South East Gateway	Newnham	London Road, Daventry	45	1000 (upper range, further work underway)	Housing	Amber	Water mains	Green	Amber	This development may require off-site works and the anticipated timescale to deliver these off-site works could be up to 18 months.	WHILTON STW	Green	Amber		Amber
Heartlands Ind Est	Abbey Nth	Newham Dr, Daventry	1.95	Employment	Employment	Green		Green	Amber	This development may require off-site works and the anticipated timescale to deliver these off-site works could be up to 12 months.	WHILTON STW	Green	Amber		Amber
Micklewell Pk (proposed extension)	Welton	Ashby Rd, Daventry	8.8	180 (upper range)	Housing	Green		Green	Amber	This development may require off-site works and the anticipated timescale to deliver these off-site works could be up to 12 months.	WHILTON STW	Green	Amber		Amber

The Knoll, Marches Ind Est	Abbey Nth	South March, Daventry	0.88	Employment	Employment	Amber	Foul and surface water sewers in highway	Green	Amber	This development may require off-site works and the anticipated timescale to deliver these off-site works could be up to 12 months.	WHILTON STW	Green	Amber		Amber
Malabar Fm, Daventry SW		Sth of A45 and A425, Daventry	40	800 (approx)	Housing	Amber	Water mains and sewers cross through the site	Green	Amber	Significant off-site works are required to supply this development that once requisitioned by the developer could take 12 to 18 month to construct.	WHILTON STW	Green	Red	Substantial off-site network reinforcement required	Red
N of Middlemore, Daventry N		W of A361/Ashby Rd, Daventry	30	600 (approx)	Housing	Amber	Water mains and sewers cross through the site	Green	Amber	Significant off-site works are required to supply this development that once requisitioned by the developer could take 12 to 18 month to construct.	WHILTON STW	Green	Red	Substantial off-site network reinforcement required	Red