

Sewer Capacity Assessment: Market Drayton NDP

Potential Impact of proposed developments on sewerage infrastructure assets

Date: 20 July 2018

NOTE: The purpose of these desktop based assessments are to indicate where proposed developments **MAY** have a detrimental impact on the performance of the existing public sewerage network taking into account the size of the development proposals.

For most new development provided the surface water is managed sustainably through use of SuDS the additional foul only flows will have a negligible impact on existing sewer performance but where there are pre-existing capacity constraints additional capacity improvements may be required.

Where subsequent detailed modelling indicates capacity improvements are required such work will be phased to align with development occupancy with capacity improvement works will be funded by Severn Trent Water. However, whilst Severn Trent have a duty to provide additional capacity to accommodate planned development, we also have a requirement to manage our assets efficiently to minimise our customers' bills. Consequently to avoid potential inefficient investment we generally do not provide additional capacity until there is certainty that the development is due to commence. Where development proposals are likely to require additional capacity upgrades to accommodate new development flows it is highly recommended that potential developers contact Severn Trent as early as possible to confirm flow rates and intended connection points. This will ensure provision of additional capacity can be planned into our investment programme to ensure development is not delayed.

Note: These are desktop assessments using readily available information and have not been subjected to detailed hydraulic modelling

STW Ref	LPA	LPA Ref	Site Name	Settlement	Size	Units	Estimated number of dwellings based on H _u	Assumed flows from the site (l/s)	Sewage Treatment Works Catchment	SMP Consultant	Date of assessment	Sewerage Comment		Potential impact on sewerage infrastructure	Surface water Comment		Potential impact of surface water sewerage infrastructure	
												Known network constraints	Assumed connectivity		Outfall assumption	Surface water disposal		
Market Drayton																		
Shropshire Council	MD030	MD030	Land off Rush Lane (West) MD030 (part)		110	Dwellings		0.51	Market Drayton	Atkins	2007/2018	There is a known hydraulic flooding property at the junction of Longlow Rd and Alexandra Rd. There is also limited capacity in the parallel sewers down Alexandra Rd where surcharge is predicted in a 1 in 1 year event.	It has been assumed that foul flows will be collected on site in a new pumping station, operated by United Utilities and then discharged into the Severn Trent Market Drayton catchment area, at the junction of Longlow Rd and Alexandra Rd (S.86345102).	Medium - High Further hydraulic analysis will be required to assess the impact of this development on sewer capacity. Depending on the discharge location, flows from the site could impact on the existing hydraulic loading of the junction of Longlow Rd and Alexandra Rd. Discharge from the site is also likely to impact on the limited capacity down Alexandra Road.	The outfall location like similar recent developments is assumed to be via a surface water outfall to an unnamed stream running east to west across the north of Market Drayton. The stream is possibly an overflow from the Shropshire Union Canal.	Surface water is expected to be controlled on site and discharges limited to green field run off. No known flooding issues associated with the discharge stream downstream of Market Drayton. However it is noted that flood mitigation is required as part of plans for MD030.	Low Subject to hydraulic modelling confirmation	
Shropshire Council	MD030	MD030	Land off Rush Lane (East) MD030 (part)		214	Dwellings		0.99	Market Drayton	Atkins	2007/2018							
Shropshire Council	MD030	MD030	Land at Greenfields		8	ha	280	1.30	Market Drayton	Atkins	2007/2018	Several existing hydraulic flooding locations and pollution incidents are known around the junction of Kirtbank Road and Walnut Road.	It has been assumed that foul flows will be collected on site in a new pumping station (or utilise an existing PWS in the case of Siph Farm) operated by United Utilities.	Medium - High Further hydraulic analysis will be required to assess the impact of this development on sewer capacity and the capacity of the treatment works. Due to the size of the developments in relation to the existing sewerage system it is envisaged that capacity improvements will be required to the existing sewerage system to ensure additional flows from these developments do not adversely increase sewer flood risk at Kirtbank Road.				
Shropshire Council	MD019 and MD028	MD019 and MD028	Land between Croft Way and Greenfields Lane		76	Dwellings		0.35	Market Drayton	Atkins	2007/2018							
Shropshire Council	ELR0238 and ELR024	ELR0238 and ELR024	Siph Farm Phase 2 (ELR0238) Phase 2 (ELR024)		16	ha	560	2.59	Market Drayton	Atkins	2007/2018							
Shropshire Council	MD034	MD034	Land off Meer Lane		8.7	ha	305	1.41	Market Drayton	Atkins	2007/2018							
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