

Policy 3.8 – Wollaton Road:

ID	Organisation
Duty to Co-operate / Interest Groups	
222	Severn Trent
6276	Nottingham West Clinical Commissioning Group

Broxtowe Borough Council

Potential impact of proposed developments on sewerage infrastructure assets

Date: 17/10/2017

NOTE: The purpose of these desktop based assessments are to indicate where proposed development **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 a 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

Site Ref	Site Name	Size	Units	Sewage Treatment Works Catchment	Sewerage Comment	Potential impact on sewerage infrastructure
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Toton, Stapleford and Bramcote

3.1	Chetwynd Barracks	91.5 ha	500	Toton STW	Sewer records do not exist for Chetwynd Barracks. Therefore the current drainage at the site is unknown. It is assumed the majority of flows will join the 300 dia combined sewer on Chetwynd Road. RPA predicts flooding in a 30 year storm. D/S of Chetwynd Road there is a large flooding cluster on Crofton Road. An FA scheme has been delivered which protects properties internally up to 40 year storm and externally up to a 20 year storm. There are no pollution incidents recorded D/S at the Attenborough Lane PS. Surface Water flows can be drained to local brook running through Chetwynd barracks.	Low
	Toton	UNK	500	Stapleford STW	It is likely that a capital scheme would be required for a new gravity sewer to take foul flow from the development to Stapleford STW in the North West. There are numerous hydraulic flood incidents on incoming pipes to the STW. If foul flows were to be discharged to the south the topography suggests a pumping station would be required. Pipes on Stapleford Lane where it would be expected to discharge to are predicted to flood in low RPs. There are foul flooding incidents recorded to the south off Stapleford Lane. Surface water will be able to drain to pre-existing surface water systems in the vicinity of the development.	High
	Bramcote	UNK	300	Stoke Bardolph STW	It is expected that foul flows will be connected to 225mm dia pipe on Latimer Drive. RPA does not predict flooding in storm events up to 40 yrs. Flows from the east of the site may have to be pumped due to the topography of the site.	Low
	Stapleford	UNK	240	Stapleford STW	It is likely that a capital scheme would be required for a new gravity sewer to take foul flow from the development to Stapleford STW in the North West. There are numerous hydraulic flood incidents on incoming pipes to the STW. If foul flows were to be discharged to the south the topography suggests a pumping station would be required. Pipes on Stapleford Lane where it would be expected to discharge to are predicted to flood in low RPs. There are foul flooding incidents recorded to the south off Stapleford Lane. Surface water will be able to drain to pre-existing surface water systems in the vicinity of the development.	Med

3.6	Beeston Maltings	1.3 ha	56	Lilac Grove STW	Based on topographic levels it is likely the development will connect to the sewage system on Cartwright Way to a 150 mm dia pipe. Surface water would also drain to the existing system on this road. The model does predict flooding on low RPs D/S on Ireland Avenue. However there are no incidents of flooding reported.	Low
	Beeston Cement Depot	UNK	21		Sewage from the development is likely to join the network on Station Road into a 375 mm dia combined sewer. Surface Water will be able to be connected to local surface water network. There are no reports of flooding in the area and flooding is not predicted in low return periods.	Low
	Wollaton Road Beeston	UNK	12		The building adjacent to the proposed development site has experienced repeat floodings recently. Return period analysis predicts flooding in a storm with a two year return period. The development is unlikely to have a noticeable impact to Severn Trent's sewerage infrastructure, however, the development is likely to flood.	Low

	Awsworth	UNK	350	Newthorpe STW	Surface Water from the development will be able to drain to a local watercourse. Foul water from the development will join a 225mm dia combined sewer running across the development site. Flooding in a low return period is predicted downstream and there are pollutions recorded at Awsworth - A610 TPS. There are also a large number of flooding incidents upstream of the development in the south of Awsworth.	Med
4.1	Awsworth	UNK	250	Newthorpe STW	Surface Water from the development will be able to drain to a local watercourse. Foul water from the development will join a 225mm dia combined sewer running across the development site. Flooding in a low return period is predicted downstream and there are pollutions recorded at Awsworth - A610 TPS. There are also a large number of flooding incidents upstream of the development in the south of Awsworth.	Med

	Brinsley	UNK	150	Newthorpe STW	Foul flows from the development will join a 225 mm dia combined sewer running adjacent to the development site. Surface water from the development will be able to drain to Brinsley Brook. Flooding is not predicted in low return periods locally and there are no reported flooding incidents near the development	Low
			110	Newthorpe STW	Foul flows from the development will join a 225 mm dia combined sewer running adjacent to the development site. Surface water from the development will be able to drain to Brinsley Brook. Flooding is not predicted in low return periods locally and there are no reported flooding incidents near the development	Low

6.1	Walker Street	9	230	Newthorpe STW	Foul and surface water flows will join pipes on Greenhills Avenue. Flooding is not predicted in low periods downstream of the development. However there are a number of recorded flooding incidents that additional flow could exacerbate.	Low
	Kimberley	UNK	600	Newthorpe STW	Foul flows from the development will join the 750 mm dia existing combined sewer which runs through the site. Surface Water from the development can join the existing surface water network which runs through the proposed development site. Flooding is predicted in a low return period storm on the combined system close to the development site. There is a repeat internal flooding caused by the combined sewer. The development is likely to exacerbate the flooding at this property.	Med

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30 October 2017

Dear Steffan

Broxtowe Local Plan Part 2 Consultation

Thank you for allowing us the opportunity to respond to your consultation document. New treatments and an aging population mean that pressures on services are greater than they have ever been, as people are living longer, often with very complex conditions. An increase in local population as a result of new housing developments compounds that pressure particularly on primary care - family doctor services. Having the right infrastructure in place in primary and community settings is crucial for the successful delivery of the Sustainability and Transformation Plan (STP) ambitions and the GP Forward View (GPFV). The ability to transform care and keep services sustainable will only be possible if efficient, fit-for-purpose, high quality facilities underpin the delivery of services.

Workforce recruitment for GPs in particular is paramount for sustaining quality general practice provision. Good quality fit for purpose primary care facilities are a key part of attracting the necessary workforce to support the existing and new population as a result of these housing developments.

In recent years there have been a number of developments approved which have had a major impact on our ability to provide primary care services. As a consequence we would like to work with the Borough Council to explore a better way of planning for care homes and retirement living facilities. We are often the last public sector organisation to find out that a care home is opening; a building has a change of use or that retirement facilities are being developed. 65% of the NHS budget is spent on the over 65s and understandably the elderly are the predominant users of health and social care services so the impact of such changes on the health and social care system are huge for a relatively small part of the population.

In terms of this consultation document, we have taken each of your options in turn and outlined our current position with regards to primary care facilities, indicating where we have areas of risk.

Potential Site Allocations Sites Adjacent to the Main Urban Area

<p>Policy: 3.1 Chetwynd Barracks 500 homes with potential for 800+ overall</p> <p>Land for Medical Centre required in order to make plan effective and therefore sound</p>	<p>The potential for 800+ dwellings (with a maximum of 1,500) presents significant concern with respect to local health service provision. The nearest facilities for this development, and where patients are likely to register, is Chilwell Valley & Meadows Surgeries which comprise a main surgery (Valley) which has no development potential; and a branch surgery (Meadows) which has some expansion potential.</p> <p>Based on 2.3 residents per dwelling we would anticipate an increased patient population of up to 3,500 patients if the total of 1,500 dwellings was achieved, which would require 2 full-time General Practitioners, over and above the current service provision.</p> <p>Given the size of this development and the potential for further development at Toton, together with the limited / non-existent expansion potential of the current facilities, we are to consider the option of a new Primary Care Centre for the Chilwell / Toton area subject to funding being made available. Therefore, in order for the plan for Chetwynd Barracks to be effective and sound, we request a reserved site within this development to provide primary care services to the residents of this area.</p> <p>We are not in a position to confirm the size of site required at this stage; however based on similar size developments it would be no more than 1 acre to serve a potential population of around 18,000 patients. Funding contributions should be sought through Section 106.</p>
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<p>Policy: 3.2 Toton – 500+ homes</p>	<p>We understand that we have missed the opportunity to comment on this proposal as it stands currently at 500 homes. However, we consider that there may be further development in this area and would like to offer the following comments:</p> <p>The nearest facilities for this development is Chilwell Valley & Meadows Surgeries which comprise a main surgery (Valley) which has no development potential; and a branch surgery (Meadows) which has some expansion potential.</p> <p>We would like to consider any expansion to the Toton development over and above the original 500 houses alongside the Chetwynd Barracks development which</p>
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	affects the same GP practice.
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<p>Policy: 3.3 & 3.4</p> <p>Bramcote, East of Coventry Lane 300 homes</p> <p>Stapleford, West of Coventry Lane 240 homes</p>	<p>The nearest facilities to these developments are Bramcote Surgery and Hickings Lane Medical Centre.</p> <p>Hickings Lane Medical Centre has recently extended the surgery to take account of the new resident population generated by 450 dwellings (a potential of 1,035 residents based on 2.3 residents per dwelling) at Field Farm. There is potential to further expand this facility.</p> <p>Bramcote Surgery is a purpose built facility with some potential for small scale development which could assist with the expansion of patient population from these two developments.</p> <p>We are also aware of discussions regarding the development of the old Bramcote Hills Golf Course for retirement / continuing care privately owned units. This will, if it goes ahead, compound capacity issues within the existing practices.</p> <p>We ask the Borough Council to request on our behalf a Section 106 contribution to support the expansion to the physical capacity of these existing facilities in order to provide health services to the additional 1,242 residents these developments will attract.</p>
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<p>Beeston (339 homes / 780 residents)</p> <p>Policy: 3.5 Seven Trent (Lilac Grove), Beeston 150 homes</p> <p>Policy: 3.6 Beeson Maltings, 56 homes</p> <p>Policy: 3.7 Cement Depot Beeston, 21 homes</p> <p>Policy: 3.8 Wollaton Road, Beeston, 12 homes</p> <p>Policy: 11 Beeston Square, 100 homes (minimum)</p>	<p>There are four GP practices providing healthcare to the residents of Beeston; Abbey Medical Centre, The Manor Surgery, The Oaks Medical Centre and West End Surgery.</p> <p>The Oaks Medical Centre is currently undergoing an extension to their purpose built facility in response to the planned housing developments underway in Beeston. However, the future developments as outlined in the Local Plan Part 2 whilst not significant when considered alone, need to be considered in its entirety together with what is underway and will have significant impact upon the physical capacity of practices to provide health services. There is some potential for small scale developments to assist with this further expansion of the patient population in particular from the Seven Trent and Beeston Square developments.</p> <p>We would ask for a Section 106 contribution to be</p>
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	<p>available to this locality to increase the physical clinical space required to meet the needs of this increase in population over and above that already underway as part of The Oaks Medical Centre expansion.</p>
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<p>Policy: 4.1 Awworth West of Awworth (inside the bypass) 250 homes</p> <p>Policy: 5.1 Brinsley East of Church Lane 110 homes</p>	<p>The nearest facilities to this development and where patients are likely to register are Church St Medical Centre and Church Walk Surgery in Eastwood. See below for details of the Eastwood joint public services proposed development to meet the needs of this increase in population.</p>
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<p>Policy: 6.1</p> <p>Eastwood 200 homes + 30 Extra Care Units Walker Street, Eastwood (Map 24)</p> <p>Land for Medical Centre required in order to make plan effective and therefore sound</p>	<p>A new health centre for Eastwood is the CCG's top priority within its Strategic Estates Plan. The old Eastwood Health Centre was considered no longer fit for purpose and has been recently disposed of resulting in there being no local facilities for extended, community based health services in Eastwood.</p> <p>Both GP practices in Eastwood are in separate facilities which can no longer be extended. They are intending to merge into one practice as of April 2018 to provide GP services to 20,000 local residents.</p> <p>We have been working with Nottinghamshire County Council, the land owners, on the preferred solution which would be a One Public Estate public services hub incorporating a new health facility on the Walker Street site (Map 24). Alongside library services and third sector organisations this new facility would also house the two merged GP practices (Church Street Medical Centre and Church Walk Surgery in Eastwood) plus supporting community health service provision.</p> <p>In order that the plan for Eastwood is effective and therefore sound, part of the Walker Street site must be allocated for a new, purpose built health facility to sit behind the existing library with direct access to the main road with its public transport links ensuring it is easily accessible to the community. A one acre site is required (GIA 2000m2 of two or three storeys dependent upon meeting planning requirements). Direct vehicular access would be required to Walker Street if the site is also identified as the preferred site for a co-</p>
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	located blue light service base. Funding contributions should be sought for this development through Section 106.
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<p>Kimberley (167 homes / 385 residents)</p> <p>Policy: 7.1 Kimberley Depot 105 homes</p> <p>Policy: 7.2 South of Eastwood Road 40 homes</p> <p>Policy: 7.3 Eastwood Road Builders Yard 22 homes</p>	<p>The nearest facility to these developments is Hama Medical Centre, Kimberley. This is a purpose built facility with potential to expand through internal re-organisation of rooms changing their use from clinical to non-clinical physical space.</p> <p>We would ask for a Section 106 contribution to be requested in order to increase the physical clinical space required to meet the demands of the increase in population brought about by the housing developments.</p>
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In summary, we have considered the impact on our existing facilities for each of the potential developments detailed in the Local Plan Part 2. Our main challenges are:

- **Policy: 6.1 Eastwood** where we have had extended discussions with Nottinghamshire County Council regarding a public sector hub and require a site of 1 acre to be reserved on the Walker Street site for this;
- **Policy: 3.1 Chetwynd Barracks / Policy: 3.2 Toton** where we will do more work on a potential hub servicing this area but would ask for a reserved site on the Barracks site to be identified for a potential health facility;
- The impacts of other developments in the plan are of a smaller scale and could be resolved by relatively modest extensions and/or internal re-design. For these we ask for Section 106 contributions to fund the necessary works to meet the health needs of the increase in population.

I hope you find this of use in your considerations. Please let me know if you need any further information.

Yours sincerely

[Redacted signature]

[Redacted name]
[Redacted address]

NHS Nottingham West CCG