

09 April 2021

Our ref: Rearsby 3

Dear Sir/Madam

## Rearsby Neighbourhood Plan Submission Version

Thank you for the opportunity to comment on your consultation, Severn Trent are supportive of the general Principles outlined within the plan, however there are a few area that we feel could be enhanced to support the delivery of the Neighbourhood Plan objectives and delivery wider benefits.

### Policy E1: Design

Severn Trent would Recommend that this policy highlights key design considerations about the performance of development sites, in such that they are built to manage surface water sustainably and utilise resources sustainably during use. To this effect we would recommend that Policy R1 highlights the need for development to incorporate:

- 1) Sustainable Drainage systems (SuDS)
- 2) Implement the principles of the Drainage Hierarchy
- 3) Incorporate water efficient design and technology

### Drainage Hierarchy

The drainage hierarchy outlined the principles of where surface water should be discharged, the hierarchy is outlined within Planning Practice Guidance paragraph 80 (Reference ID: 7-080-20150323). Severn Trent request evidence that the drainage hierarchy has been followed by developers in our conversations, however by raising the expectation at the Neighbourhood Plan stage it consideration can be incorporated into the initial a site designs resulting it better continuity of surface water through development.

To aid in the interpretation of this request we would recommend that the following wording is incorporated into Policy R1:

***All applications for new development shall demonstrate that all surface water discharges have been carried out in accordance with the principles laid out within the drainage hierarchy, in such that a discharge to the public sewerage systems are avoided, where possible.***

### SuDS (Sustainable Drainage Systems)

Severn Trent note that Planning Policy already requires major development to incorporate SuDS through the written Ministerial Statement for Sustainable Drainage (HCWS 161) and NPPF. However current policy is very flexible on how SuDS can be incorporated into development, by incorporating appropriate references to SuDS in Policy R1, the need for developers to deliver high quality SuDS can be secured. Current Industry Best Practice for SuDS (The SuDS Manual CIRIA C753) highlights the need to consider SuDS from the outset of the design process and not to fit

SuDS to the development site post layout. To aid in the delivery of this recommendation we would recommend wording to the effect of:

***All major developments shall ensure that Sustainable Drainage Systems (SuDS) for the management of surface water run-off are put in place unless demonstrated to be inappropriate.***

***All schemes for the inclusions of SuDS should demonstrate they have considered all four aspects of good SuDS design, Quantity, Quality, Amenity and Biodiversity, and the SuDS and development will fit into the existing landscape.***

***The completed SuDS schemes should be accompanied by a maintenance schedule detailing maintenance boundaries, responsible parties and arrangements to ensure that the SuDS are maintained in perpetuity.***

***Where possible, all non-major development should look to incorporate these same SuDS principles into their designs.***

The supporting text for the policy should also include:

*Sustainable Drainage Systems (SuDS) should be designed in accordance with current industry best practice, The SuDS Manual, CIRIA (C753), to ensure that the systems deliver both the surface water quantity and the wider benefits, without significantly increasing costs. Good SuDS design can be key for creating a strong sense of place and pride in the community for where they live, work and visit, making the surface water management features as much a part of the development as the buildings and roads.*

We would also note that as the Lead Local Flood Authority (LLFA) are the statutory consultee for the planning process in relation to surface water management that they should also be consulted on any wording regarding SuDS.

## **Water Efficiency**

Water efficient design and technology is important for ensuring the sustainability of the water supply system for the future, both supporting existing customers and future development. NPPF supports the delivery of sustainable development and the Humber River Basin Management Plan promotes the use of the tighter Water Efficiency Target within Building Regulations Part G. We would recommend that this detailed with Policy R1 so that developers are aware of what is expected of them from the outset of the design process.

To aid with the implementation for the recommendation we have provided some example wording below:

***All development should demonstrate that they are water efficiency, where possible incorporating innovative water efficiency and water re-use measures, demonstrating that the estimated consumption of wholesome water per dwelling is calculated in accordance with the methodology in the water efficiency calculator, should not exceed 110 litres/person/day.***

## **Policy R3: Promoting effective use of Land – Limits to Development**

Severn Trent note that Policy R3 details the need to retain where possible streams, we would support this position, as detailed in our comments to Policy R1, the management of surface water and the connectivity of surface water to sustainable outfalls is vital to mitigate increases in Flood risk, By retaining and protecting watercourses such as streams, ditches and rivers etc, development can allow water to follow it's natural path through the site. Removal of these features can result in water needing to find alternate routes to the low points often resulting in flooding or ponding of water where it is not wanted.

### **Policy R6A: local Green Spaces**

Severn Trent understand the need for Local Green Space and the need for it to be protected, however local green spaces can provide suitable locations for schemes such as flood alleviation to be delivered without adversely impacting on the primary function of the open space. If the correct scheme is chosen, the flood alleviation schemes can result in additional benefits to the local green space in the form of biodiversity or amenity improvements. We would therefore recommend that the following point is added to Policy R6A to support the delivery of flood alleviation projects where required within green spaces..

*Development of flood resilience schemes within local green spaces will be supported provided the schemes do not adversely impact the primary function of the green space.*

### **Policy R6B: local Green Spaces**

Severn Trent understand the need for Important Open Space and the need for it to be protected, however open spaces can provide suitable locations for schemes such as flood alleviation to be delivered without adversely impacting on the primary function of the open space. If the correct scheme is chosen, the flood alleviation schemes can result in additional benefits to the local green space in the form of biodiversity or amenity improvements. We would therefore recommend that the following point is added to Policy R6B to support the delivery of flood alleviation projects where required within green spaces..

*Development of flood resilience schemes within local green spaces will be supported provided the schemes do not adversely impact the primary function of the green space.*

### **Policy R9: Flood Risk**

Severn Trent are supportive of the approach to highlight SuDS within Policy R9, we would as detailed under our response to Policy R1 recommend that reference to the Drainage Hierarchy is also made and that SuDS are design in accordance with the principles of current Industry Best Practice (CIRIA C753 The SuDS Manual).

Please keep us informed when your plans are further developed when we will be able to offer more detailed comments and advice.

For your information we have set out some general guidelines that may be useful to you.

### **Position Statement**

As a water company we have an obligation to provide water supplies and sewage treatment capacity for future development. It is important for us to work collaboratively with Local Planning Authorities to provide relevant assessments of the impacts of future developments. For outline proposals we are able to provide general comments. Once detailed developments and site specific locations are confirmed by local councils, we are able to provide more specific comments and modelling of the network if required. For most developments we do not foresee any particular issues. Where we consider there may be an issue we would discuss in further detail with the Local Planning Authority. We will complete any necessary improvements to provide additional capacity once we have sufficient confidence that a development will go ahead. We do this to avoid making investments on speculative developments to minimise customer bills.

## **Sewage Strategy**

Once detailed plans are available and we have modelled the additional capacity, in areas where sufficient capacity is not currently available and we have sufficient confidence that developments will be built, we will complete necessary improvements to provide the capacity. We will ensure that our assets have no adverse effect on the environment and that we provide appropriate levels of treatment at each of our sewage treatment works.

## **Surface Water and Sewer Flooding**

We expect surface water to be managed in line with the Government's Water Strategy, Future Water. The strategy sets out a vision for more effective management of surface water to deal with the dual pressures of climate change and housing development. Surface water needs to be managed sustainably. For new developments we would not expect surface water to be conveyed to our foul or combined sewer system and, where practicable, we support the removal of surface water already connected to foul or combined sewer.

We believe that greater emphasis needs to be paid to consequences of extreme rainfall. In the past, even outside of the flood plain, some properties have been built in natural drainage paths. We request that developers providing sewers on new developments should safely accommodate floods which exceed the design capacity of the sewers.

To encourage developers to consider sustainable drainage, Severn Trent currently offer a 100% discount on the sewerage infrastructure charge if there is no surface water connection and a 75% discount if there is a surface water connection via a sustainable drainage system. More details can be found on our website

<https://www.stwater.co.uk/building-and-developing/regulations-and-forms/application-forms-and-guidance/infrastructure-charges/>

## **Water Quality**

Good quality river water and groundwater is vital for provision of good quality drinking water. We work closely with the Environment Agency and local farmers to ensure that water quality of supplies are not impacted by our or others operations. The Environment Agency's Source Protection Zone (SPZ) and Safe Guarding Zone policy should provide guidance on development. Any proposals should take into account the principles of the Water Framework Directive and River Basin Management Plan for the Severn River basin unit as prepared by the Environment Agency.

## **Water Supply**

When specific detail of planned development location and sizes are available a site specific assessment of the capacity of our water supply network could be made. Any assessment will involve carrying out a network analysis exercise to investigate any potential impacts.

We would not anticipate capacity problems within the urban areas of our network, any issues can be addressed through reinforcing our network. However, the ability to support significant development in the rural areas is likely to have a greater impact and require greater reinforcement to accommodate greater demands.

## **Water Efficiency**

Part G of Building Regulations specify that new homes must consume no more than 125 litres of water per person per day. We recommend that you consider taking an approach of installing

specifically designed water efficient fittings in all areas of the property rather than focus on the overall consumption of the property. This should help to achieve a lower overall consumption than the maximum volume specified in the Building Regulations.

We recommend that in all cases you consider:

- Single flush siphon toilet cistern and those with a flush volume of 4 litres.
- Showers designed to operate efficiently and with a maximum flow rate of 8 litres per minute.
- Hand wash basin taps with low flow rates of 4 litres per minute or less.
- Water butts for external use in properties with gardens.

To further encourage developers to act sustainably Severn Trent currently offer a 100% discount on the clean water infrastructure charge if properties are built so consumption per person is 110 litres per person per day or less. More details can be found on our website

<https://www.stwater.co.uk/building-and-developing/regulations-and-forms/application-forms-and-guidance/infrastructure-charges/>

We would encourage you to impose the expectation on developers that properties are built to the optional requirement in Building Regulations of 110 litres of water per person per day.

We would also encourage the use of rainwater harvesting on larger developments, either residential or commercial. This helps to reduce the demand on public supply, associated carbon impact of supply and also reduced site run off and sewer flows. Rainwater Harvesting as a development rather than on a property by property basis is more cost efficient and can produce greater benefits.

Both the [River Severn River Basin Management Plan](#) (Page 52) and the [Humber River Basin Management Plan](#) (page 46) recommend that Local Plan set out policies requiring homes to meet the tighter water efficiency standard of 110 litres per person per day *as described in Part G of Schedule 1 to the Building Regulations 2010*. As such Severn Trent's recommendation is consistent with wider objectives within our water supply regions.

We hope this information has been useful to you and we look forward in hearing from you in the near future.

Yours sincerely

Chris Bramley

Strategic Catchment Planner

[growth.development@severntrent.co.uk](mailto:growth.development@severntrent.co.uk)