



Willow Cottage, Herne Lane, Rustington, West Sussex BN16 3EE

Castle Property Developments
1 & 2 The Barn
West Stoke Road
Lavant
Chichester
West Sussex
PO18 9AA

Our Ref: 1772/RTFC

Your Ref:

2 February 2019

Dear Sirs

Springfield House, Springfield Close, East Preston

I write with regard to proposals to connect foul drainage from your proposed development to the existing foul lateral serving The Spires.

I attach a plan of the proposals, Drawing No. 1772/F/SK2, from which you will see that the invert level of the lateral at the proposed connection manhole is 5.914m AOD.

If the pipe has a straight gradient from here to the sewer, the gradient would be 1 in 29 but these pipes are often laid flatter and ramped down to the sewer, so for robustness, we have assumed a gradient of 1 in 80. We have also assumed a high roughness factor of 3.0mm, which provides us with a full-bore capacity of 5.119 litres/second for the 100mm diameter pipe.

British Water suggests water usage for design of 150 litres/person/day (l/p/d) but for robustness, we have used 200 l/p/d plus 20% for groundwater infiltration and a peaking factor of 12 to give us a flow of 0.0333 litres/person/second (l/p/s).

On the above very conservative figures, the existing lateral has capacity for 154 persons and can therefore easily accept additional flow from your proposed development.

Kind regards

Robert Clark Associates Ltd