



SNG Architecture Ltd
Greengate Business Centre
Oldham
OL4 1FN

FAO – Mr S Fretwell

Our Ref. – 0010121

Date – 18th November 2021

By email

Dear Spencer

Ref. – Dentholme, Cleator Moor, CA25 5PR

With reference to your email dated 11th October 2021 regarding the above site, I can provide the following information on the proposed surface water drainage disposal options.

1.0 – Ground Infiltration

I have attached a copy of the Site Investigation Report prepared by GeoInvestigate in May 2021. As part of their site investigation, GeoInvestigate carried out infiltration tests at one borehole location. The sub-soil conditions were consistent across the site.

Section No. 3.3 and 4.4 within their report concluded that the sub-soil would not provide adequate infiltration for soakaways to be viable.

2.0 – Surface Waterbody

As noted in the United Utilities email, the nearest waterbody to the site is a culverted watercourse some 113m from the site.

To connect to this watercourse would involve crossing public land, a public road and at least three private properties.

It is considered that this option would not be economically viable.

3.0 – Highway Drain

The present Dentholme surface water drainage appears to discharge into a combined sewer at the entrance to the site off Cragg Road.

The remodelling of the car park areas means that the surface water could be separated and discharge into a highway drain. The flow can be attenuated, if needed, by providing storage areas beneath the car park bays.

4.0 – Combined Sewer

As noted in Section 3.0 above, the drainage from the site appears to be via. a combined sewer in Cragg Road. The surface water flow from the site can be attenuated, if needed, by providing storage areas beneath the car park bays.

5.0 – Conclusions

Based on Section No.'s 1 to 4 above, it is considered that the most viable option would be to discharge the surface water to either the highway or combined sewer drainage.

If flow rates are restricted, sufficient storage can be provided by crates positioned beneath car parking bays.

I trust the above answers your queries.

Yours Faithfully

Mark Vaudeau C.Build.E FCABE

Encl. – GeoInvestigate Report – May 2021