

Addendum Drainage Note

Land off Holt Road, Rossett

Waterco Consultants have been instructed to prepare an addendum drainage note which sets out the rationale for the inclusion and siting of a foul pumping station for a proposed development at land off Holt Road, Rossett.

This addendum drainage note should be read in conjunction with the Waterco Consultants Flood Consequences Assessment and Drainage Strategy report dated June 2018 (report reference: w10685-180619-FCA&Drainage_Strategy).

A foul pumping station is proposed in the northern extent of the northern land parcel. This equates to the lowest point of the site and downstream of all properties. The foul pumping station is required as Dwr Cymru Welsh Water (DCWW) have stipulated a connection point for foul flows at manhole SJ37572301 in Holt Road. The invert level of manhole SJ37572301 is identified as 11.45m AOD. Site levels in the northern parcel fall by 2.25m from south to north. Levels in the northern extent of the northern land parcel are similar to the invert level of manhole SJ37572301 (11.45m AOD). Therefore, to achieve a connection from properties in the northern land parcel to manhole SJ37572301, a pumped solution is necessary.

The pumping station is sited in the lower northern extent of the site to facilitate gravity flow from all properties to the pumping station. It is also noted that the pumping station is located off a turning head. This is to provide easy maintenance access for DCWW and tanker access for DCWW should foul flows need to be removed by tanker in an emergency situation.

In accordance with Sewers for Adoption 7th Edition, a 15m stand-off is provided from the wet-well of the pumping station to habitable dwellings.

The foul pumping station will be built to adoptable standards and adopted by DCWW who will then be responsible for maintenance. Foul pumping stations include storage within the wet well (160 litres per dwelling) to minimise the risk of flooding should plant or power failure occur. The pumping station will include a telemetry system which will alert DCWW of any failures.

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