

#### 4.4 Foul Effluent Volume

The anticipated foul effluent load that will be produced by the Site during an event has been calculated using the British Water Code of Practice "*Flows and Loads – 4 Sizing Criteria, Treatment Capacity for sewage treatment systems*" (2013). This guidance document gives a table of predicted loadings for sewage treatment plants specific to purpose.

The proposed events at the Site will be limited to a maximum number of 80no. guests, with 20no. staff present for each event. The guidance document indicates that for drinkers a flow of 12 litres per person per day should be assumed and for full time day staff a flow of 90 litres per person per day should be assumed. Using these figures, a flow volume of 2,760 litres per event has been calculated.

Although the events will be catered, this is done by an outside company. All food preparation occurs off-Site, crockery is supplied by the catering company and the cleaning of crockery occurs off-Site. As such, no waste water will be produced by the catering.

There will be a glass cleaning machine to clean glasses from the bar located within the marquee. The estimated maximum volume of water this glass cleaning machine will produce is 300 litres, based on previous events. Phosphate free detergents will be used within this glass washing machine to ensure minimal impact on the local environment.

Therefore, the total effluent volume from the Site is 3,060 litres (3.06m<sup>3</sup>) per event. A package treatment plant (PTP) which is capable of treating this anticipated volume of foul discharge as a minimum is required for the system. The selected PTP should conform to and meet the standards outlined in BS EN 12566-3.