

Drainage Hierarchy Statement

Garden Cottage, Pentre-Poeth Rd, Rhiwderin, Newport NP10 8RT

The foul drainage strategy for the replacement dwelling at Garden Cottage proposes replacing the existing septic tank with the installation of a Kingspan BioDisc package treatment plant, discharging to the adjacent on-site watercourse via a pumped outlet.

Connection to the mains sewer is not feasible due to the property's rural location and the significant distance to existing public infrastructure. In accordance with the hierarchy, a drainage field was next considered. However, this has been discounted due to limited space within the residential curtilage, which is required for other drainage infrastructure associated with SuDS.

The proposed package treatment plant is a compact, energy-efficient system that provides a high standard of effluent treatment. The pumped outlet ensures the discharge is conveyed safely and directly to the on-site watercourse, minimising any risk to groundwater or surrounding land. An exemption for this discharge has been applied for with NRW.

Full product specifications and layout are provided in the submitted foul drainage plan and accompanying BioDisc documentation.