

RURAL LOCATIONS AT HOME WITH MONO[®]

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Mono has solved a problem for Maldon District Council in Essex by replacing an old pump house with a Mono Packaged Pumping Station. The new installation brings the system up to a standard suitable for adoption by Anglian Water.

The upgrade in a rural location is one in which Mono is widely experienced, having completed a large number of installations of this type in recent years as part of the Sewers for Adoption Scheme.

Housed in a new GRP kiosk in a domestic front garden, the pumping station consists of two Monobloc B Range pumps and two macerators, operating as duty/standby, together with all the associated pipe work and controls needed to serve the seven houses in the hamlet of Perryfields. The station handles the raw domestic sewage at a capacity of 4 cubic metres per hour and a pressure of 3 bar.

The positive displacement action of the progressing cavity pump lifts the wastewater out of the collection sump into the cutting chamber of the macerator. The wastewater and any textile or fibrous matter is macerated and then pumped away to the main gravity sewer. The sump is fitted with level controllers so that when the sewage reaches a certain point it is automatically emptied by the pump, and once emptied the system cuts out, thus ensuring low energy consumption and reliable, cost effective operation.

The Mono pumps offer the benefits of blockage free operation and smooth transfer of the sewage through small bore pipes into the main sewage system for further treatment. Being a positive displacement pump, head is independent of speed. This combined with correct pump selection leads to low wear rates, minimal spares usage, lower running costs, less downtime and hence Least Whole Life Costs.

Demolition of the existing structure as well as installation and commissioning were carried out by Mono's Project Management Team in October 2004 to create minimum disruption in the lives of local residents. Quiet operation and compactness of the plant were major considerations, given that it is sited so close to residential property.



Product Type:	2 off CB041 Monobloc B Range Pumps 2 off M18C5N Macerators
Product:	Raw domestic sewage
Capacity:	4 m ³ /h
Pressure:	3 bar
Pump Speed:	272 rpm
Drive:	1.1 kW motor

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