

WASTEWATER COLLECTION SYSTEM

THE CHALLENGE

The Customer was looking to drastically increase the population of their mobile home site. They were using a conventional sewage lagoon and the increase in population would have overwhelmed the current system. Expanding the lagoon size would take up valuable property and increase the park's operational expenses and regulatory responsibilities. A possible solution was to install a wastewater collection system designed around a single pump station that would deliver the wastewater to a treatment plant about 1 km away.

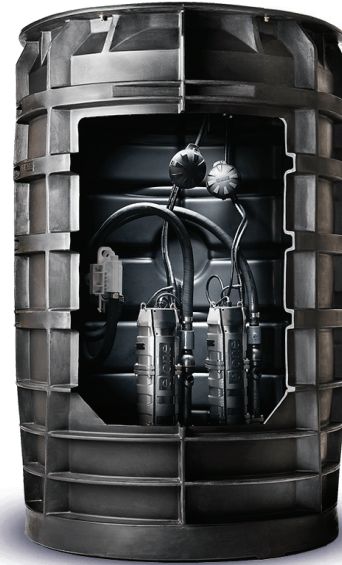
THE SOLUTION

Our Application Expert knew that the solution would require a pump that could deliver a low flow at a relatively high head while pumping a solids laden wastewater - not an easy application for most pumps. They selected a four-pump E/One pre-packaged submersible pump station - a semi-positive displacement grinder pump that would develop a relatively consistent flowrate at high heads.

THE RESULTS

- ▶ Reduced Service & Maintenance Costs
- ▶ Installation Savings

For more information on this solution or if you have a fluid handling challenge of your own - Contact a John Brooks Company Application Expert today!






MUNICIPAL | WASTEWATER COLLECTION WASTEWATER COLLECTION SYSTEM

TECHNOLOGY UTILIZED

Environment/One's Four-Pump Pre-Packaged Submersible Pump Station - Model WH484 consists of four Extreme Series Grinder Pumps inside an open wet-well tank. The Grinder Pumps, Motor Controls and Level-Sensing are integrated into a compact unit, easily removed for service.

HOW IT WORKS

-  Solids are ground into fine particles that pass easily through the pump, check valve and small-diameter pipe lines - even objects that are not normally found in sewage, such as plastic, rubber, fibre, wood, etc.
-  The 1/4" discharge connection can be adapted to any piping materials that meet local code requirements. The internal check valve assembly, located in the grinder pump is custom designed for non-clog, trouble-free operation.
-  The grinder pump is automatically activated and runs for very short periods. Electrical consumption of the grinder pump is low and will vary with actual water consumption.