



SEWER GRINDER PUMP SYSTEMS

GENERAL:

The type of sewage systems the Lost Lake Community uses is both septic and a (pressured) central (public) system. Most of the houses on the west side of the lake use a pressured central system that goes to a wastewater plant for processing. If the central system is available to a lot, the owner must utilize it.

Central sewer systems can generally be divided as a gravity flow or a pressure flow system. A gravity flow system uses large concrete pipes that are placed under ground and waste naturally drains to the sewage plant. A pressure flow system uses a grinder pump in a basin that chops waste up and pumps the slurry through small diameter pipes to the wastewater treatment plant.

Initial costs in a gravity drain system are substantially higher than a pressure flow system. The downside of a pressurized system is the cost of the grinder pump and basin, and the eventual cost of repair and replacement of the grinder pump.

If a home has sewage generated in the basement level from a restroom or other source, a grinder pump is usually needed even in a gravity drain or septic system.

The Lost Lake Community uses an EOne pressurized system. All the homes that attach to it has indoor or outdoor EOne grinder pump stations. It includes the grinder pump in a basin with a switch and control panel and a failure alarm. <https://eone.com/sewer-systems/products/grinder-pump-systems>. **The Lost Lake Utility District allows ANY pump which meets the criteria standard in the Ordinance to pump to the wastewater treatment facility.**

NEW CONSTRUCTION:

For all new construction, any number of grinder pump systems are allowed to hookup to the Lost Lake Utility District wastewater treatment facility. EOne, Gould Pumps, Little Giant, Zoeller, Liberty Pumps, and Hydromatic Pumps to name a few offer grinder pump package systems to fit the requirements of the Lost Lake Utility District System. These systems can be chosen by anticipated sewage generation, power available, perceived reliability, and repair service availability, and other characteristics that the owner may desire.

One of the most significant options of the grinder pump package is if the system is a simplex or a duplex configuration. Simplex systems offer one sewage pump. If it fails, the entire house wastewater system is not functional until it can be fixed. This can lead to difficulties during weekend and holidays at getting service or premium time expenses. The other option is a duplex system, though it costs more initially, it has two pumps with a pump in standby in the case one fails. This allows for a more economical ability of getting the failed pump repaired and eliminates the anxiety of no ability to shower, flush, or use a sink.

Lost Lake Utility District **recommends** a duplex system on any new construction.

EXISTING SYSTEMS:

If your grinder pump fails, you will generally be notified by an alarm that usually is a loud buzzing sound coming from the control panel. This is activated by the high-level alarm from the basin. The alarm is notifying you that the pump is not pumping, and the basin is filling up. Anymore activity of the home sewerage system could lead to the basin filling with wastewater and backing up into your home.

If you have an EOne system, you have some options. After the warranty period, any licensed plumber can work on the E One system if they feel they are qualified. The housing may be modified to for another brand grinder pump or replace the entire basin with another competitive system.

Little Giant and Liberty Pumps make a pump that are 100 percent compatible with the EOne System. They are basically a pump unit that can be lowered into the basin and plugged into the EOne power unit. Lost Lake Utility District does not guarantee this. We do know of residents that have used other pumps in their existing basin with success.

If you use this option, call the pump manufacturer with your existing pump specifications; and they can confirm compatibility. Keep in mind the voltage available and the tight working conditions in the basin. Pumps are quite heavy and requires a lifting tripod system to safely get it in out of the basin.