

EffluaSTEP™

Collection Systems



Effluent-only collection systems provide an affordable and sustainable sewer option for communities. Moving solids within a wastewater collection system is very costly. The EffluaSTEP collection system is a low-intensity solution for budgeting, installation, and operation.

EffluaSTEP™

The EffluaSTEP collection system utilizes shallow buried, small diameter main lines along contour. Capital costs are deferred at the pace of development. The EffluaSTEP pretreatment options assure a smaller and simpler central treatment plant. The overall life-cycle costs are lower compared to gravity sewer with large central treatment works. Operation and maintenance is less complex. The packages come as a kit that may also be preassembled in a tank. The EffluaSTEP collection system offers two options for on-lot collection and treatment:

PuraSys SBR Series is a sequencing batch reactor that provides secondary treatment, nitrogen reduction, and turbine pump discharge in an all-in-one tank configuration. An added benefit of the PuraSys SBR Series is that the aerobic effluent will not corrode collection infrastructure.

Quanics Series uses a septic tank with dosing chamber. The process is outlined below.

The EffluaSTEP Process with Quanics Series

1. Sewage flows from the home or facility into a watertight septic tank. Solids separate by floating or settling.
2. Effluent flows by gravity to the dosing chamber or tank. An optional effluent filter with 1/32" filtration may be incorporated.
3. The effluent then moves into a dosing chamber or tank where a high head turbine pump is housed within a filtered pump vault (FPV). The FPV is available in different heights and will fit into any tank. The pump is activated by a float switch and control panel.
4. The primary treated effluent (no solids) is dosed to the small diameter pressure sewer main. The effluent is conveyed to a central point for further treatment.



PuraSys SBR Series



Quanics Series

