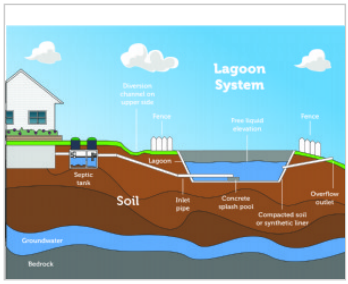
treatment train

Site-specific combination of components in a specified order that constitute a wastewater treatment system; a simple example of a treatment train is a septic tank and a soil treatment area.

treatment train images/graphics:

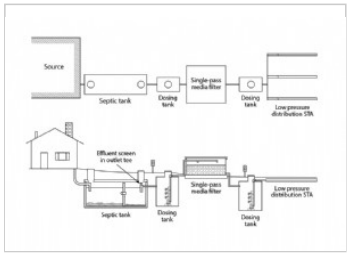
Conventional system

Residential OWTS: gravity septic tank, distribution box, gravity distribution STA, 3D color



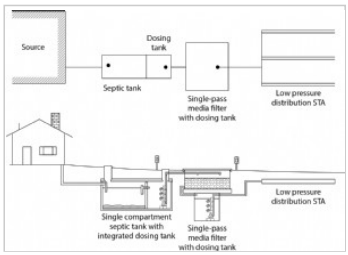
Lagoon system

Residential OWTS: gravity septic tank, lagoon, profile view, color



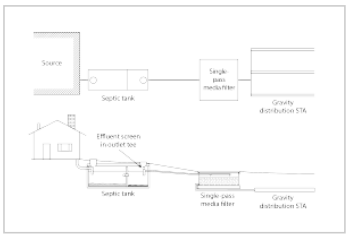
Single pass media filter to low pressure distribution STA

Residential OWTS: gravity septic tank, dosing tank, single pass media filter, dosing tank, LPD, plan and profile view



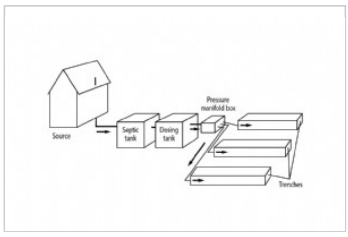
Septic tank single pass media filter to LPD

Residential OWTS: gravity septic tank with integrated dosing tank, single pass media filter with dosing tank, low pressure distribution STA, profile view



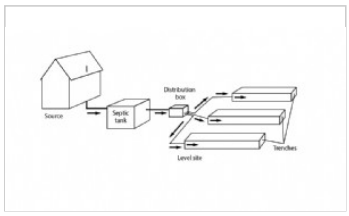
Single pass media filter gravity distribution STA

Residential OWTS: gravity septic tank, single pass media filter, gravity distribution STA, plan and profile view



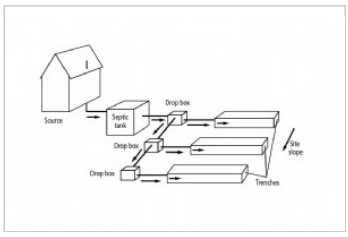
Pressure manifold to pressure distribution

Septic tank, dosing tank, pressure manifold box, pressure dosed gravity distribution STA



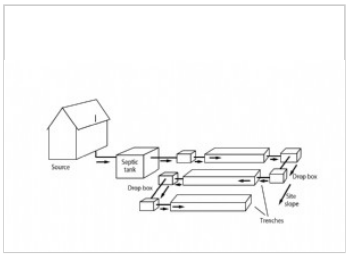
Gravity parallel trenches

Septic tank, distribution box, gravity distribution, parallel trenches STA



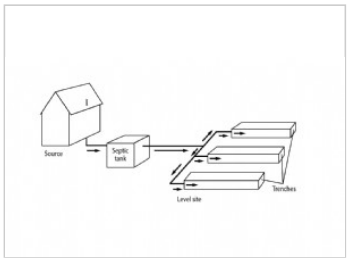
Gravity sequential trenches

Septic tank, drop box, gravity distribution, sequential trenches STA, sloping site



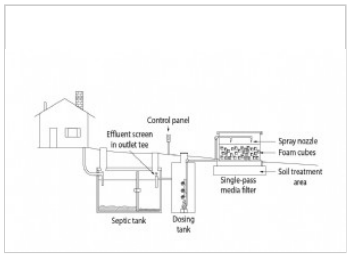
Gravity serial trenches

Septic tank, drop box, gravity distribution, serial trenches STA, sloping site



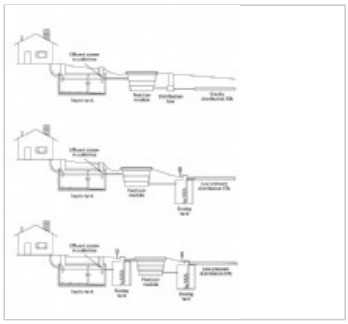
Gravity parallel trenches with manifold

Septic tank, header pipe, gravity distribution, parallel trenches STA, level site



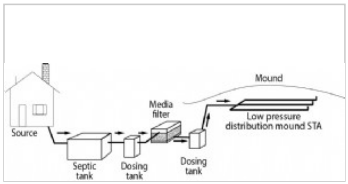
Single pass bottomless foam media filter

Residential OWTS: gravity septic tank, dosing tank, single pass bottomless media (foam) filter, profile view



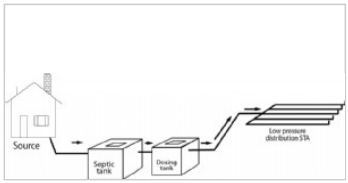
Peat and Coir media filter treatment train configurations

Residential OWTS: 3 configurations for systems using peat or coir media filters using gravity and pressure dosing to treatment and STA, profile view



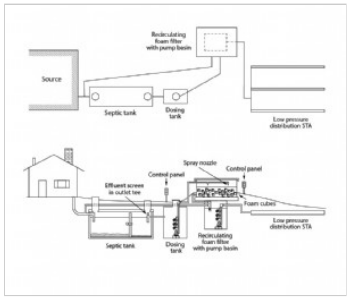
Example OWTS ST, SP media filter, LPD distribution

OWTS with advanced treatment (single pass media filter) and a low pressure distribution (LPD) soil treatment area (STA)



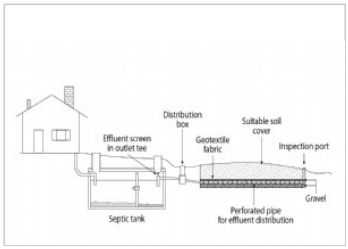
Example OWTS ST, dosing tank, LPD distribution

OWTS with septic tank, dosing tank and a low pressure distribution (LPD) soil treatment area (STA)



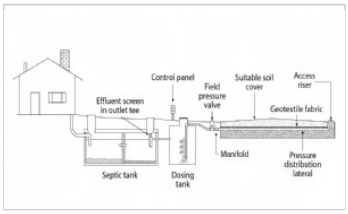
Recirculating foam filter treatment train

Residential OWTS: gravity septic tank, dosing tank, recirculating media (foam) filter, pump basin, LPD, plan and profile view



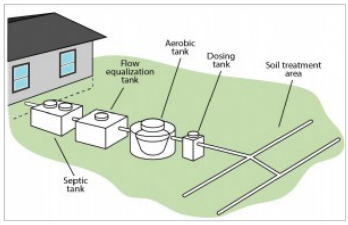
Gravity distribution system

Residential OWTS: gravity septic tank, distribution box, gravity trench STA, profile view



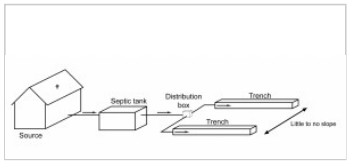
Low pressure distribution STA

Residential OWTS: gravity septic tank, dosing tank, low pressure distribution STA, profile view

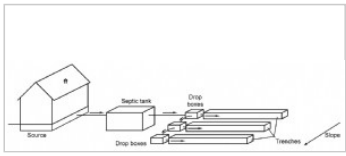


ATU with flow equalization tank, LPD

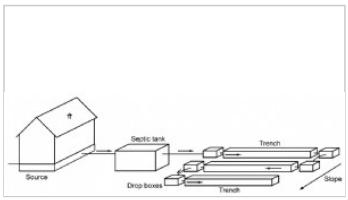
Residential OWTS: septic tank, flow equalization tank, ATU, dosing tank, LPD STA, 3D view



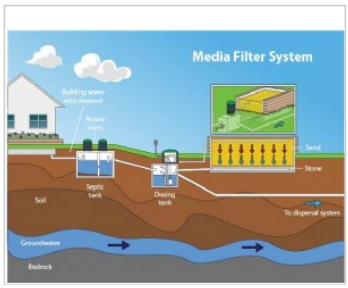
Distribution, parallel



Distribution, sequential

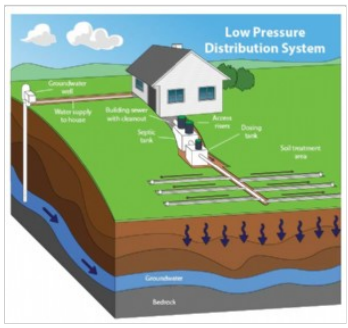


Distribution, serial



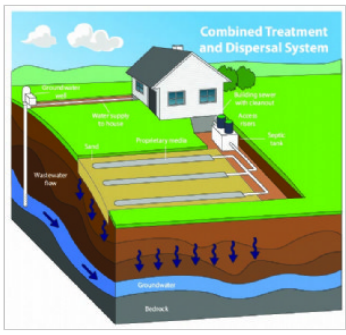
Recirculating media filter system

Residential OWTS: gravity septic tank, dosing tank, recirculating sand media filter, LPD STA, 3D color



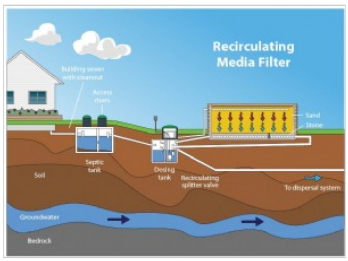
Low pressure distribution system

Residential OWTS: gravity septic tank, dosing tank, LPD STA, 3D color



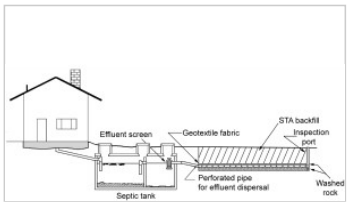
Combined treatment and dispersal system

Residential OWTS: gravity septic tank, combined treatment and dispersal STA, 3D color

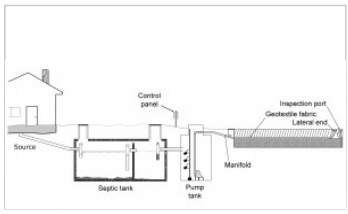


Recirculating media filter, split base

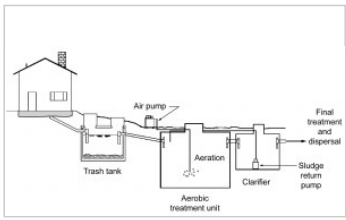
Residential OWTS: gravity septic tank, dosing tank, recirculating media filter with split base, recirculating splitter valve, profile view, color



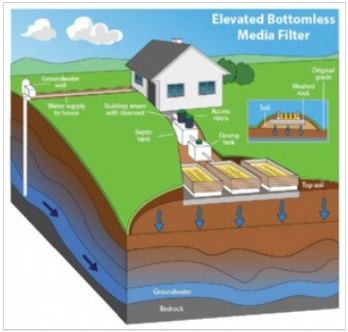
Gravity distribution sytem, profile



Low pressure distribution (LPD)

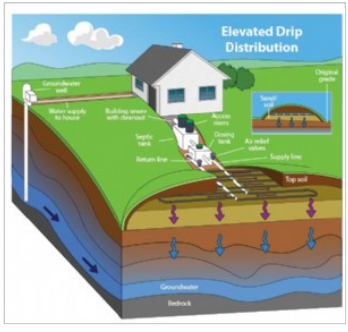


General schematic of an aerobic treatment unit train, profile



Elevated bottomless media filter

Residential OWTS: gravity septic tank, dosing tank, bottomless media filter, 3D color

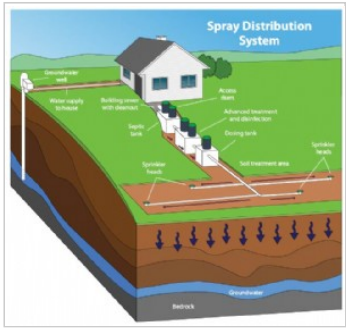


Elevated drip distribution

Residential OWTS: gravity septic tank, dosing tank, elevated drip distribution STA, 3D color

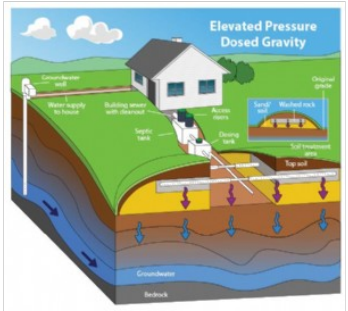
Drip distribution

Residential OWTS: gravity septic tank, dosing tank, drip distribution STA, 3D color



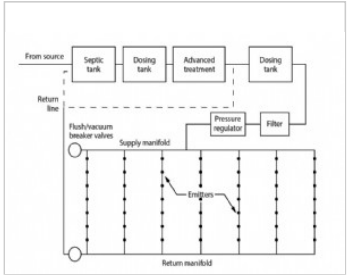
Spray distribution

Residential OWTS: gravity septic tank, dosing tank, spray distribution STA, 3D color



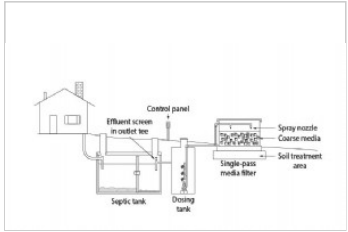
Elevated pressure dosed gravity

Residential OWTS: gravity septic tank, dosing tank, elevated pressure dosed gravity distribution STA, 3D color



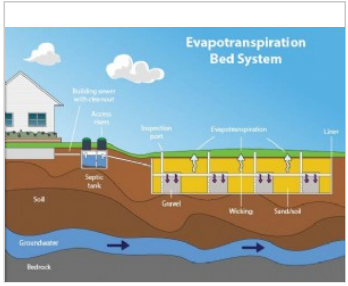
Drip distribution generic treatment train

OWTS: septic tank, flow equalization, advanced treatment, drip distribution STA, plan view



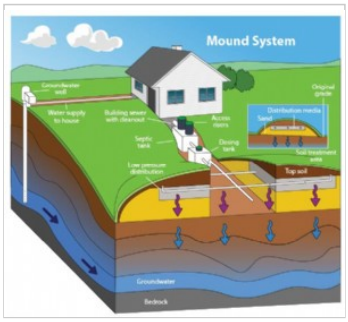
Single pass bottomless coarse media filter

Residential OWTS: gravity septic tank, dosing tank, single pass bottomless coarse media filter, profile view



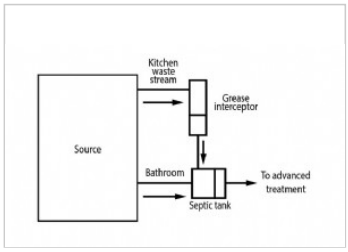
Evapotranspiration bed

Residential OWTS: gravity septic tank, gravity Evapotranspiration bed STA, profile view color



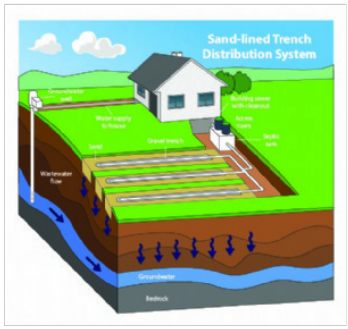
Mound with low pressure distribution

Residential OWTS: gravity septic tank, dosing tank, mound with low pressure distribution STA, 3D color



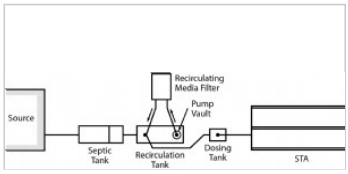
Grease interceptor treatment train

Food service pretreatment with grease interceptor and septic tank, plan view



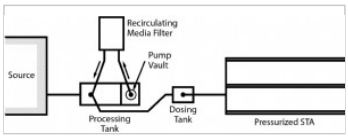
Sand lined trench gravity distribution

Residential OWTS: gravity septic tank, sand lined trench with gravity distribution STA, 3D color



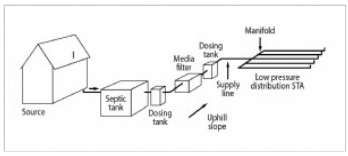
Recirc media filter, recirc tank and pump vault

Recirculating media filter, recirculation tank, pump vault, recirculating splitter valve, dosing tank, STA, plan view



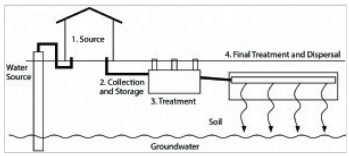
Recirc media filter, proc tank and pump vault

Recirculating media filter, processing tank, pump vault, recirculating splitter valve, dosing tank, STA, plan view



Septic tank, SP media filter, LPD distribution

Residential OWTS: septic tank, dosing tank, single pass media filter, dosing tank, low pressure distribution STA



Four part generic treatment train

Illustration of the four parts of a typical OWTS: Source, Collection, Treatment and Final Treatment and Dispersal