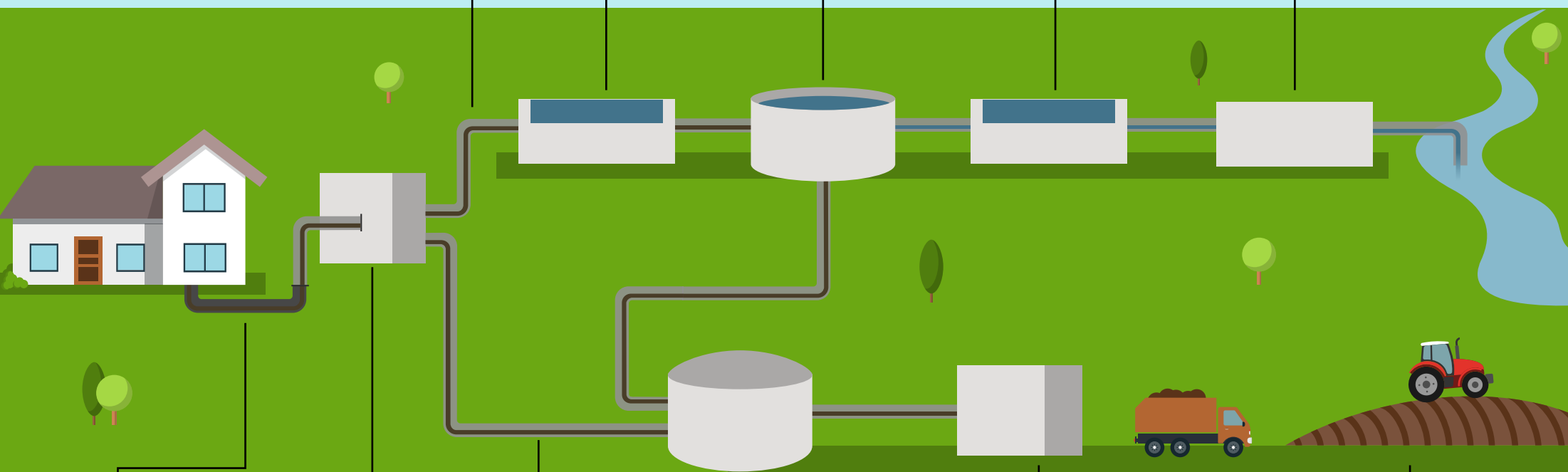


Wastewater

Wastewater Treatment



Liquid and small particles

Biological Nutrient Removal Basins
Air is circulated and bacteria remove dissolved pollutants, phosphorus and nitrates.

Secondary Clarifier
Additional biosolids are separated from the liquid and piped back to the digester.

Effluent Filtration
Liquid is filtered to remove any remaining small particles.

Disinfection
Effluent is disinfected with either ultraviolet light or chlorine before being discharged to a stream or river.

Wastewater from home or business enters sanitary sewer

Primary Treatment
– Grit removal: gravity pulls larger particles to the bottom
– Primary clarifier: solids are separated from water by settling to the bottom of the clarifier

Sludge (biosolids) sent to the digester

Digester
A biological process that reduces the volume of organic materials and destroys pathogenic bacteria to convert the sludge to recyclable biosolids. Also produces methane gas for energy recovery.

Dewatering
Water is removed from the digested biosolids to produce a semi-solid byproduct that is loaded into trucks.

Biosolids
Biosolids are used as a soil amendment and fertilizer for crops not destined for human consumption.