




Bacpac® onsite wastewater system

featuring algaewheel® technology

Oldcastle Precast® and Algaewheel®

- Complete onsite system design
- Simple, single pass, flow through system
- Treats high-strength waste
- Advanced (secondary) treatment
- Incorporates solar energy
- Successfully used to gain LEED points 
- Produces oxygen, reduces greenhouse gases
- Virtually maintenance free



Onsite wastewater

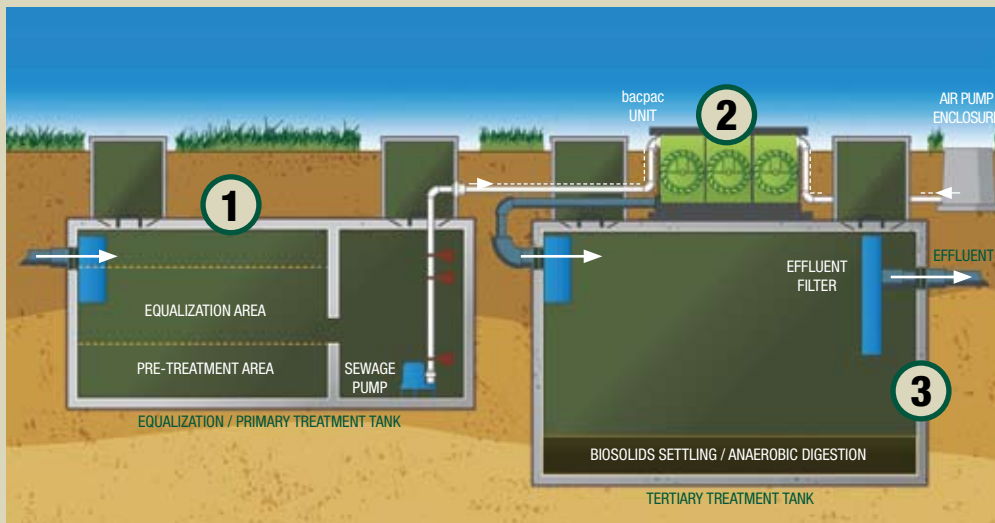
Oldcastle Precast® provides solutions for decentralized and onsite wastewater treatment applications. Our clients consist of cluster communities, commercial facilities, and industrial facilities.

the Oldcastle Precast® Onsite Wastewater System

The Oldcastle Precast Onsite Wastewater System is a complete package including: design of the onsite system, primary and secondary tanks sized to meet specific project requirements, the Algaewheel® bacpac® system, onsite construction oversight, and operation & maintenance.

“Simple and Dependable, Naturally.”

How does the Oldcastle Precast® Onsite System work?



1. Primary Treatment

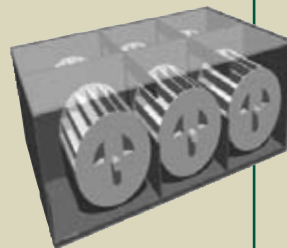
The primary treatment tank removes large inert solids from the wastewater stream and provides an equalized flow to the bacpac® treatment system utilizing timer controlled raw sewage pumps.

What is an Algae wheel®?

The Algae wheel® consists of a single vessel in which biological and ecological treatment and filtration occur to effectively “eco-treat” wastewater. Bacterial colonies maintained in the aerobic, anoxic, and anaerobic portions of the unit provide traditional biological treatment. The systems algal colonies provide an expanded treatment realized only in an ecologically diverse and dynamic process like the Algae wheel®.

What is a bacpac®?

The bacpac® tank houses multiple Algae wheels® that are rotated using linear piston air pumps. The unique patented Algae wheel® design regulates wheel rotation while allowing consistent aeration of the wastewater. The Algae wheels® are operated in series providing a single pass, flow through treatment process.



2. Secondary Treatment

The bacpac® tank provides secondary treatment and phosphorous removal utilizing the Algae wheel® technology.

3. Tertiary Treatment

Tertiary treatment occurs in a standard settling tank where converted nitrates are removed from the water in the form of nitrogen gas leaving clean water to be released to a drainage field.



Oldcastle Precast[®]

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www.oldcastleprecast.com/wastewater