



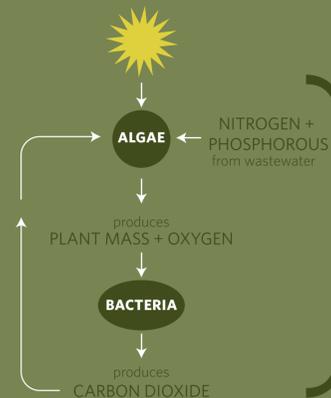
## Environmentally friendly wastewater treatment at Cincinnati Nature Center



The innovative Oldcastle Precast AlgaePac™ system features AlgaeWheel® technology. Primary treatment is performed by algae, a green plant grown through solar energy, in a symbiotic relationship with bacteria, thus yielding an unique eco-friendly and sustainable wastewater design.

During the Site Master Planning process in 2009, CNC began exploring alternative wastewater treatment solutions to replace two outdated facilities serving the Rowe Woods Visitor Center and Krippendorf Lodge. CNC selected an environmentally friendly system called AlgaePac, featuring AlgaeWheel® technology. It combines multiple natural processes for a more diverse, dynamic and expanded treatment system.

- AlgaeWheel systems require 50 to 75 percent less energy to operate than conventional wastewater treatment systems.
- AlgaeWheel systems typically generate 95 percent less solids that would otherwise require energy intensive handling and disposal transportation costs.
- Unlike conventional wastewater systems that emit enormous amounts of CO<sub>2</sub> (carbon dioxide), the AlgaeWheel system enables a wastewater treatment plant to become carbon neutral or even carbon negative.

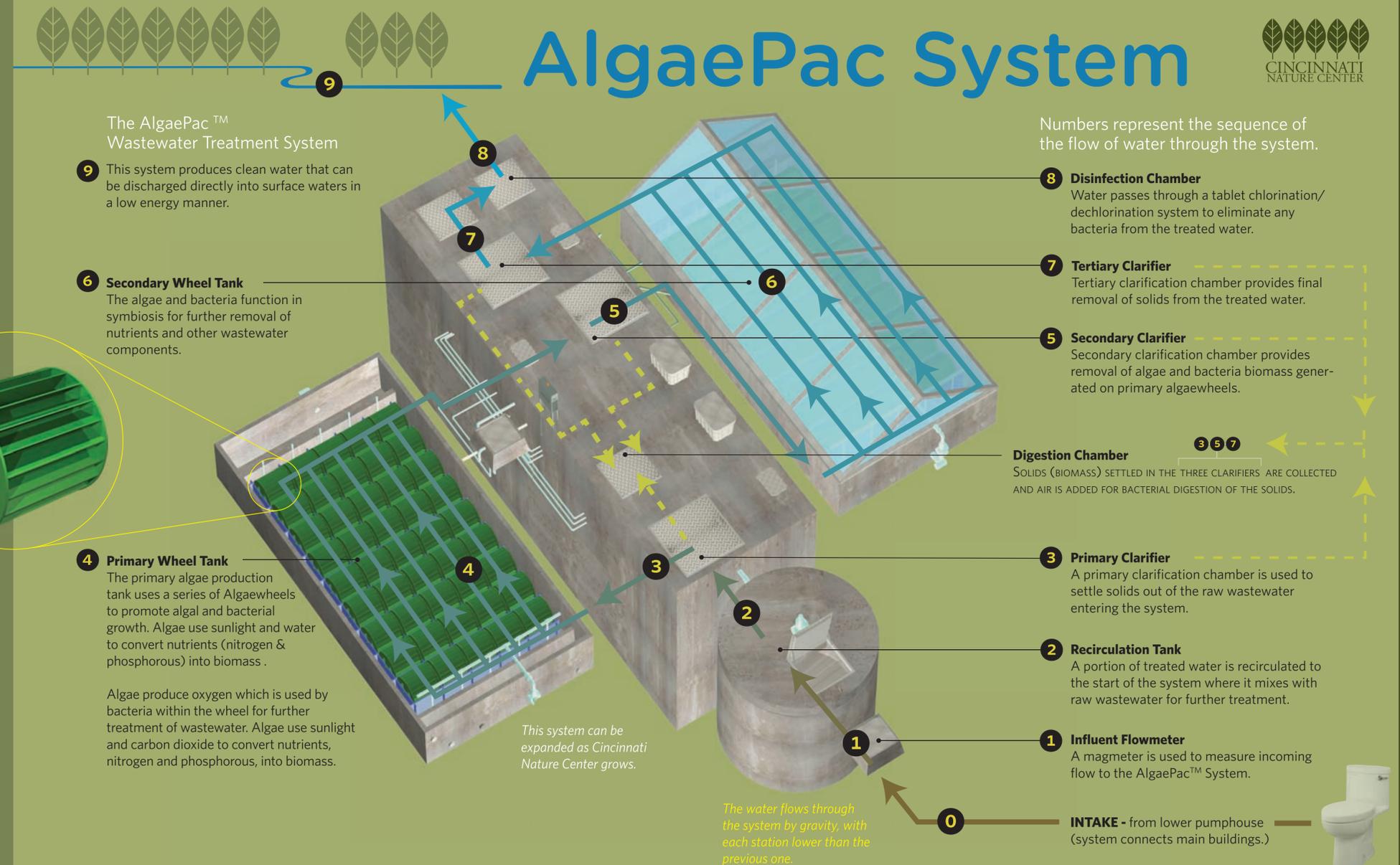


The AlgaePac™ system uses a unique treatment process that combines algae, a plant that grows through photosynthesis, with bacteria.

Algae convert carbon dioxide from the air and nitrogen and phosphorous from the wastewater into healthy plant mass and oxygen.

The oxygen is then used by bacteria in the system instead of high energy blowers to convert organics from the wastewater into carbon dioxide for the algae.

So the algae and the bacteria feed each other.



41 3/4" x 16"