



Aqua Nova Engineering, PLC

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New Water Solutions for Wastewater · Stormwater · Rainwater

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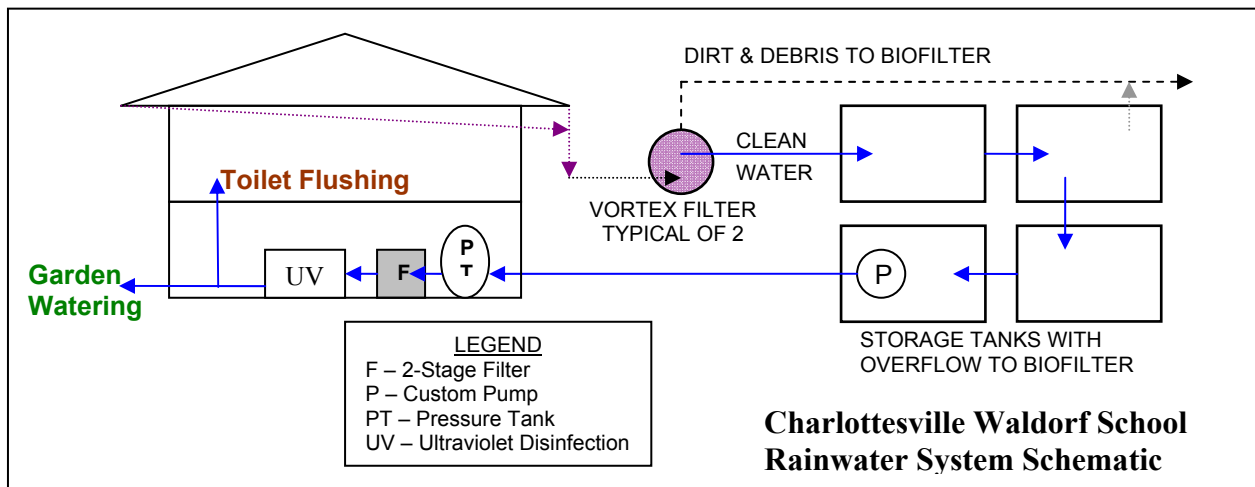
Example Rainwater Harvesting Project

Charlottesville Waldorf School, Charlottesville, VA



The Charlottesville Waldorf School constructed a new Library-Arts building and pavilion in 2010. Among the many sustainable features of this project was collection of rainwater from 9,500 sq. ft of new roof area. Collected water is treated and stored for garden watering and toilet flushing in the new building.

- Vortex filters take out dirt /debris while capturing more than 90% of the water.
- Clean water is stored in a battery of concrete tanks with 8,000gallons working volume.
- Filtration and UV disinfection system ensure optimum water quality.



Aqua Nova Engineering, PLC, worked with Source Architects, the general contractor, Abrahamse & Company Builders, Inc. and the site work contractor, Donalson Construction Co. to integrate the rainwater system into the project. Aqua Nova consulted with Albemarle County to ensure the design would be acceptable from public health and plumbing perspectives. Design

started in June 2010 with construction beginning in July. The outdoor aspects of construction were completed in December 2010 with the system commissioned in May 2011.

Aqua Nova designed the system and obtained approval from County Health Department. To minimize construction costs, special tanks were designed along with custom pump basins and

other components. A specially selected pump and pressure tank system supply toilet flushing and garden watering with a minimal amount of energy.

Aqua Nova provided construction oversight and component procurement services. After completion Aqua Nova staff tested and commissioned the system.

