



ECOVIE Residential Rainwater Collection System

Application:
In Home Potable System

Project Location:
Residence; Virginia Highlands, Atlanta

This fully potable system for a home in City of Atlanta is the result of the home owner wanting to solve a flooding and drainage problem. Being located downhill from large new construction with a lot of impervious surface created an issue with storm water runoff, resulting in flooding problems. As part of the solution, a retaining wall, pervious driveway and an ECOVIE 3,400-gallon underground rainwater collection system with potable treatment was installed.



Project Summary:

Roof Square Footage: 2,200-square feet
Tank Capacity: 3,400-gallon
Projected Annual Water Supply:
49,000-gallons



ECOVIE's system saves 49,000-gallons of water annually; meeting 84 percent of water needs within the household and 75 percent reduction in storm water runoff from the roof.

The system collects rainwater from the 2,200-square foot roof and keeps it from flooding the property.

The system follows the Atlanta requirements for potable residential rainwater systems. From screening and first flush before the tank to a full treatment system for the whole home, this system was a model for development of the Atlanta ordinance.

Water quality tests show that the treated rainwater meets EPA water quality standards and surpasses results for City of Atlanta water on many parameters.