



ECOVIE Residential Rainwater Collection System

Application:

Cost effective water management

Project Location:

Residential: Candler Park Area, Atlanta.

The City of Atlanta has some of the most expensive water rates in the nation. Thus one of the largest issues with this residential site was how effectively minimize monthly water and sewer fees. This Ecovie client had very high water bills in the summer due to water demand for outdoor irrigation and a swimming pool as well as topping off the Koi Pond.

To combat this problem, Ecovie designed a 2,500 gallon above ground system to collect water from the 2,200 square foot roof and also to optimize the irrigation system. As part of the optimization, we uncovered a number of system leaks and over watering problems. We installed an evapotranspiration gauge to make sure watering only occurs when the landscape needs it. This is done by monitoring rainfall and sunlight to gauge when watering is needed.



Koi Pond



Above Ground Collection System



Outdoor Swimming Pool

Project Summary:

Roof Square Footage: 2,200

Tank Capacity: 2,500 Gallons

Projected Annual Water Supply: 35,000

Now that the system is up and running, water bills have dropped by precipitously. While the rainwater system will supply around 35,000 gallons a year, the irrigation upgrades will save around 20,000 additional gallons per year for an overall annual savings of over \$1,600. The project has been such a success that the homeowner is now considering up-grading to a full on potable system. This potable system will collect rainwater and treat it to drinking and showering standards for indoor usage according to the Atlanta potable rainwater ordinance.