



Table Rock Lake Campbell Point Residence

Presented as part of an extensive study and works project undertaken from 2001 to 2005 by Table Rock Lake Water Quality

PROJECT OVERVIEW

Table Rock Lake is located in the Upper White River Basin watershed, in the heart of the Ozarks.

The second largest of five reservoirs in the Upper White River, covering over 43,000 acres, the reservoir's drainage basin covers over 5,000 square miles in both Missouri and Arkansas. The lake, which is widely considered to have the best water quality of any in Missouri, is quite clear and supports a variety of fish species including bass, crappie and sunfish.

Table Rock's excellent water quality has led to a booming recreation and tourism business, with many resorts catering to fishing, boating and swimming activities, principally during the summer months. The U.S. Army Corps of Engineers estimates that the recreational use at Table Rock Lake ranges between 30 and 40 million visitor hours annually. Along with the Branson tourism industry, Table Rock Lake and other reservoirs on the White River are responsible for the hundreds of millions of dollars annually pumped into the local economy. This growth has benefited the local economy, but has not come without costs. The large numbers of visitors, an increase in confined animal production in the basin, and population growth present the greatest challenges to the water quality in Table Rock Lake.

To learn more about the Table Rock Water Quality Onsite Wastewater Demonstration Project, please visit <http://www.trlwq.org/onsiteDemoproj.html>

ISSUES FACED

The Missouri Department of Natural Resources identified three probable sources of excessive nutrient loading in the lake: municipal sewage discharge from wastewater treatment plants, residential on-site wastewater treatment systems associated with increasing populations, and livestock and poultry wastes.

CAMPBELL POINT RESIDENCE STATS

LOCATION

Table Rock Lake, Upper White River Basin
Missouri

PROPERTY TYPE

Single family residence

SITE CONDITIONS

- Numerous rock out-croppings
- Very little existing soil

ISSUES TO ADDRESS

- Homeowner cut sewer line to allow raw sewage to flow overland.

TYPE OF TREATMENT SYSTEM

- BioMicrobics FAST system with Netafim Bioline in imported soil

DESIGN FLOW (GPD)

360



Prior to system renovation, the sewer line was dumping raw sewage directly on the ground.

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**Campbell Point
Residence**



A lack of existing soil required that additional fill be brought in before the Netafim Bioline could be laid out. Notice the use of flex PVC to transition from the supply and return headers up to the dripperline laterals. This helps to protect the dripperline from damage in poor soils as well as preventing drippers from being placed outside the boundary of the drip field.



Once the dripperline was laid out, the contractor used a loader to add topsoil over the dripperline. This technique allowed the operator to keep heavy equipment from rolling over the dripperline.



Once the installation was complete, grass seed was spread across the dispersal field, resulting in an excellent lawn area for the homeowner.



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