

## SEPTIC TANK GRAVITY SYSTEM

**STATE PROGRAM:** West Virginia Department of Environmental Protection

**ASSISTANCE RECIPIENT:** New Haven - Winona

**ASSISTANCE AMOUNT:** \$487,544



### PROJECT DESCRIPTION

The community of Winona is a former coal camp of 99 homes and commercial buildings located in Fayette County, West Virginia. Current wastewater disposal practices in Winona consist of direct discharges and failing septic systems that release raw or partially treated wastewater into local ditches, ravines, and streams. Because of this, Keeney Creek, which flows through the center of the community, has the highest frequency of bacteria violations in the New River watershed. This project creates a state-of-the-art decentralized sewer system through a series of distributed high capacity septic systems. The project will treat wastewater using Orenco Advantex technology, which recirculates effluent through sheets of textile filters that last longer and require less maintenance than alternatives. The project combines principal forgiveness from the CWSRF with grant funding from two state agencies to keep the project affordable (under \$60 per month) for this low-income community. The flexibility of the CWSRF to provide funding for pre-bid engineering, legal, accounting, and administrative costs was key to making this project a reality.

To read more about this case study, please visit [epa.gov/sites/default/files/2017-11/documents/pisces\\_compendium\\_final2.pdf](https://www.epa.gov/sites/default/files/2017-11/documents/pisces_compendium_final2.pdf).