Charles County, MD – Water Project

**Project Location:** Charles County, MD

**Team Members Needed:** We are seeking engineers with PE licensure in the State of Maryland and a background in drinking water.

**Project Background:** A small HOA community in Maryland installed a water system nearly 50 years ago, and sources its drinking water from a single well. The system is aging, but the community only has the financial capacity for reactive maintenance, with repairs serving only as short-term solutions. The entire community is reliant on this single well and aging, inadequate distribution pipes. The system’s piping is believed to be all 4”, and piping material is unknown. The submersible pump that runs the well has no backup, and it has been lowered twice in the last 15 years, indicating a drop in the water level.

This project is a revisiting of a previous Community Engineering Corps project that resulted in the development of a Preliminary Engineering Report (PER) in 2020. Unfortunately, the community was unable to secure funding following the completion of the 2020 Community Engineering Corps project. Significant inflation has occurred since 2020, rendering the cost estimate published in the 2020 PER inadequate to address the community’s needs. Community Engineering Corps is now revisiting this project and seeking engineering assistance to review the existing PER, re-evaluate the well size recommended in the 2020 PER, and update cost estimates to reflect current material prices and market rates.

**Description of the Community:** The water system serves a small, disadvantaged HOA community consisting of 24 homes with a population of approximately 60 individuals.

**Project Scope of Work:** An engineer with a MD PE license and experience with drinking water is needed to review the existing PER, and reevaluate key components, including the recommended well size and cost estimates. The objective of this project is to update a previously developed PER. It is anticipated that the revised PER will be included in an application for Drinking Water State Revolving Loan funds to be submitted in January 2025.

**Timeline:** This project is time-sensitive, as the community hopes to apply for grant funding in January, 2025. It is anticipated that the revised PER must be completed no later than December 2024.

**Contact:** Please direct all project inquiries to CECinfo@ewb-usa.org.