



Guadalupe County, TX – Sanitation Project

Project Location: Guadalupe County, TX – Sanitation

Team Members Needed: This project is open to PROFESSIONALS ONLY. Preference will be given to individuals with at least four years of professional experience working in wastewater in Texas and individuals that are fluent in Spanish. Please see description and responsibilities of team members needed (at a minimum):

1. Responsible Engineer in Charge (REIC) - *Four years of professional experience and must have a TX PE license*
2. Quality Assurance Manager (QAM) - *Four years of experience*
3. Project Lead

Full descriptions and roles/responsibilities are linked and can be found on our website. Outside of those listed above, additional general project team members are welcome.

Project Background: An underserved community in Guadalupe County, TX, has experienced significant challenges associated with their decentralized wastewater (septic) systems. It is believed that the in situ soil conditions are not suitable to septic, leading to widespread failure throughout the community and untreated sewage contaminating soil and ponding on the ground surface. This has led to numerous residents becoming infected with gastrointestinal parasites thought long eradicated in the US. Additionally, the area is prone to flooding, which the community suspects has enabled untreated sewage to spread. The community is looking to address their wastewater challenges by either regionalizing with the nearby City of San Marcos utility, or developing a centralized solution for their community.

Description of the Community: The community is a neighborhood outside the City of San Marcos, Texas. The community consists of approximately 430 half-acre lots (approximately 600 residents - primarily spanish-speaking). The majority of the residents are lower-income, and cannot afford to address their decades-long wastewater challenges without assistance.

Project Scope of Work: The scope of work that Community Engineering Corps is looking for support with the development of a Preliminary Engineering Report , including an alternatives analysis that assesses regionalization, a centralized community system, and other alternatives deemed feasible by the project team. This report will then be included in applications for funding for improved wastewater infrastructure. Additionally, this scope includes the development of immediate solutions to address several septic systems in the community that are failing and require immediate attention. It is anticipated that this interim deliverable will be developed by the project team concurrent with the development of the PER. A separate but related Community Engineering Corps team is being recruited to support the community and project-partners with data collection. It is anticipated that this team will be composed of students from a local university and will work in conjunction with the PER team, providing support with collecting any data determined to be required.

Timeline: This project does not have a concrete timeline, but the community expressed the urgency of the project due to the health risks that come with inadequate sanitation.

Contact: Please submit all inquiries to CECorpsinfo.org