



## Amanda Raab

*Engineer II*

*5 Years at TCE*

### Education

B.S. Civil Engineering '13  
*University of Vermont*  
A.S. Civil Engineering '10  
*Vermont Technical College*

### Certifications

Licensed Designer, Class B  
*State of Vermont #603*  
Confined Space Certified  
*OSHA 29 CFR 1910.146*

### Work History

Ruggiano Engineering  
*St. Albans, VT 2014-2015*

J&A Pump and Motor Service  
*Vice President*  
*Williston, VT 2005-Present*

### Volunteer Work

Passion 4 Paws  
*Dog Foster 2018*  
Jim's House  
*Maintenance Volunteer 2016-17*

Amanda is an Engineer responsible for designing and managing projects with a focus on water, wastewater and stormwater design and permitting. Amanda specializes in sanitary layouts with a focus on pump selection and pump station design keeping functionality and serviceability in the forefront of the design. Amanda takes projects from start to finish and works diligently to achieve project goals with an appreciation for each client's schedule and budget. With 5+ years of design experience and over a decade of field experience, she takes great pride in her work as a civil engineer.

Amanda was born and raised in Vermont and currently resides in Williston. She grew up working at her parent's septic service and electric motor repair shop and excels as a sanitary designer due to her many years of hands on experience. When Amanda isn't at the office she enjoys working with her family to improve the homestead, helping her father with pump station repairs and learning about investments.

### *Recent Project Experience*

**St. George Mobile Home Park, St. George, Vermont** Amanda was involved during the transition of the community from a private owner to a cooperative. Amanda focused on sanitary investigation, testing, diagnostics, design, permitting and construction for multiple sanitary systems throughout the Park. Amanda and her colleagues oversaw construction for the disconnection and reconnection of units to their permitted disposal systems, installation two new duplex pump stations, installation of a directionally drilled force main, and collaborated with service providers on disposal field jetting, cameraing and general functionality of the two largest systems which collectively serve nearly half of the 120 unit community.

**Windy Hollow Mobile Home Park, Castleton, Vermont** Windy Hollow is a 44 unit community with public water and individual on-site sewer systems for each lot. Amanda designed a new sanitary system to immediately serve three units with failed septic systems and was strategically designed with a total capacity for five units. The economical and unique design consists of an eight trench stepped pressurized mound system on a sloped site with a seven foot elevation drop from the top trench to the bottom trench. The system was successfully pressurized equally top to bottom, end to end, and construction was completed in the winter of 2019.

**Beaver Creek, Shelburne, Vermont** Amanda and Colen collaborated to observe, test and report on the sanitary infrastructure serving the 28 lot residential community. Each home has its own pump station discharging to the community's shared forcemain which discharges to the Town's sewer system. Information collected in the field was reported to the community including the system's integrity, maintenance history, maintenance required and ongoing proper operation and use. The report included a service chart outlining over a decade of repairs and a service map identifying future maintenance.

### *Additional Projects*

- Apex Self Storage, Hartford
- Westbury Mobile Home Park, Colchester
- Sharrow Circle, Colchester
- Southern Vermont Arts Center, Manchester
- Cold Springs Camp, Milton

### *Key Skills*

- Remediation of Failed Septic Systems
- Commercial & Industrial Sanitary Design
- Stormwater Design & Site Grading
- Multi-Pump Shared Forcemain Design
- Management & Client Communication