



Emily Martinez, EIT Environmental Scientist

Emily Martinez is an environmental scientist with six years of combined educational and professional experience in research and environmental consulting. Her education focused heavily on Water Resources and Environmental Quality including many projects on the hydrology of South Dakota and the water quality challenges faced in the West Dakota District.

Experience

- Provides environmental consulting services for air quality, storm water, and spill prevention.
- Investigated a novel biological approach to dust suppression optimization through the combination of presoaked biodegradable fiber reinforcement and microbiologically-induced calcite precipitation.
- Designed and implemented individualized protocol and experiments.
- Proficient in aseptic techniques, analytic methods and bacteria culturing.
- Studied Uranium bioremediation in groundwater and the reoxidation of the insoluble Uranium (IV) to Uranium (VI).
- Proficient with sample collection and the isolation of bacteria from multiple types of media.
- Determined the phylogenetic categorization of unknown bacteria using genetic analysis.
- Publication: Martinez, E., 2014, The Impact of Biodegradable Fibers as Reinforcement in Sand Subject to Biocalcification to Reduce Wind

Erosion Potential: South Dakota School of Mines and Technology.

Education

South Dakota School of Mines and Technology - Rapid City, SD
Master's Degree: Civil and Environmental Engineering

South Dakota School of Mines and Technology - Rapid City, SD
Bachelor's Degree: Environmental Engineering

