

Municipal Wastewater Management and Treatment

CEC provides technical, regulatory and consulting assistance to address wet weather program issues and nutrient compliance requirements for existing wastewater treatment systems.



CEC has completed a broad range of wastewater management, collection and treatment projects for municipal clients, including:

- Wastewater Collection System, Pump Station and Forcemain Design and Engineering
- Wastewater Treatment, Retention and Discharge
- Surveying
- Nutrient Removal
- Wetlands Management and Surface Water Resource Engineering
- Water Quality Management
- Process Treatment Assessment
- Construction Phase Services
- Geotechnical Engineering
- Solid and Hazardous Waste Management

Municipal wastewater is often complex, and successful treatment systems often involve more than one technology or approach. CEC assists clients with determining appropriate technologies by conducting bench-scale and pilot-scale tests in our laboratories or on site.

CEC employs biologic wastewater treatment solutions, including:

- Extended Aeration
- Activated Sludge
- Sequenced Batch Reactors
- Package Plants
- Lagoon/Aeration
- Nitrification/Denitrification Systems
- Biological Nutrient Removal/Enhanced Nutrient Removal
- Recalcitrant Dissolved Organic Nitrogen (RDON)
- Pharmaceutical and Personal Care Products (PPCP) Endocrine Disruption Removal Technology
- Acid Mine Drainage Treatment