

# Wastewater Treatability Labs

**Wastewater treatability labs in Charlotte and Nashville include comprehensive lab space for bench-scale treatability testing with additional high-bay warehouse space for large pilot-scale studies.**

Wastewater treatability labs in both locations have dedicated space for smaller bench-scale testing to meet specific client needs and provide close examination for each treatment process under laboratory conditions. Labs are equipped with fume hoods, which expand the ability to test hazardous chemicals and materials. CEC can simulate a range of processes including ion exchange, membranes, coagulation/filtration, oxidation, chemical softening, absorption, pressure filtration, ozonation, chlorination, and aerobic/anaerobic systems among others.

With two locations and multiple labs, CEC can perform multiple projects simultaneously while producing assessments on a variety of processes. With experience in both small and large treatability studies, CEC provides innovative solutions to challenging wastewater, permitting and other compliance issues.

With contiguous warehouse space, CEC is able to perform large off-site bench- and pilot-scale testing, a significant advantage to test the efficacy and efficiency of bench-scaled results and assumptions. CEC has constructed a membrane bioreactor (MBR) that included reaction tanks, membrane modules, instruments for monitoring performance and a clean-in-place unit addressing complex manufacturing processes and their wastewaters.

CEC's bench- and pilot-scale testing systems can provide:

- Detailed process design data
- Simulated effluent quality data
- Comparisons between similar but competing technologies
- Pricing information on treatment, ancillary equipment (CAPEX) and chemicals, man-hours and power (OPEX) for a system or technology approach

