

## Water and Wastewater

The design and operation of sustainable water and wastewater systems in today's competitive, bottom line driven economy is a challenge. The design process requires attention to specific needs including ease of operation, energy conservation, and overall design value. Design projects commonly face a variety of challenges ranging from space constraints, to over-aggressive compliance schedules, to difficult-to-treat waste streams.

CAPACCIO's engineering team understands these challenges and takes pride in developing creative design solutions while offering value-added alternatives to recycle water, reduce waste, and improve energy efficiency.

CAPACCIO offers a full range of services and provides cost-effective solutions to meet all of your project needs. Whether it is a wastewater characterization, pilot test, system design, construction or operational optimization project, our team will involve and guide you through the process so there is a vested interest at the end of the project. We are also a leader in wastewater treatment (WWT) operator training. Through our self-paced wastewater treatment operator exam preparatory course and innovative training contact hour (TCH) training courses, we have provided WWT operators with nearly 6,000 TCH's over the past 5 years!

### BENEFITS

- Cost-effective design solutions
- Improved energy efficiency resulting in overall cost savings
- Additional water conservation resulting in reduced water and sewer costs

### SERVICES

#### Engineering Design

- Conceptual design
- Feasibility studies
- Preliminary design
- Pilot system testing
- Final design and specifications
- Process and instrumentation diagrams

#### Engineering Evaluations

- Existing system evaluations
- Peer review
- System optimization studies
- Pipeline studies and investigations
- Existing conditions plans

#### Bidding Assistance

- Invitation for bid
- Bid form preparation
- Opinion of probable cost

- Bid review
- Reference checks
- Recommendation of award

### Construction Services

- Construction scheduling
- Shop drawing review
- Construction meetings
- Project scheduling
- Regulatory agency interaction
- Start-up

### Permitting and Regulatory Assistance

- Permit application preparation
- Regulatory agency interaction
- Engineering reports
- Notice Of Intent (NOI) for stormwater permits (industrial activity and municipal separate storm sewer systems (MS4))
- Stormwater Pollution Prevention Plans (SWPPP) for industrial activity
- Stormwater Management Plans for MS4s
- Spill, Prevention, Control and Countermeasures (SPCC) plans
- Staffing plans
- System grading reports

### Operational Assistance

- Operation and maintenance manuals
- Inspection checklists
- Licensed operator assistance
- System troubleshooting
- Compliance evaluations

### Training

- MassDEP-approved wastewater treatment operator TCH courses
- Oil SPCC
- Stormwater pollution prevention
- Operation and maintenance

### QUALIFICATIONS

CAPACCIO takes pride in our experienced engineering staff, our work, and most importantly, our relationships with our clients. Our professionals are highly trained and educated with work experience in the commercial, industrial and public sectors and are:

- Registered Professional Engineers (PE)
- Licensed Wastewater Treatment Operators
- Licensed Drinking Water Operators
- Board Certified Environmental Engineers



293 Boston Post Road West  
Marlborough, MA 01752  
T: 508-970-0033 o F: 508-970-0028