



Industrial Water Management



Integrated, multidisciplinary services
for water treatment and environmental compliance

complex world | CLEAR SOLUTIONS™

Tetra Tech helps convert risk to return on investment

Regulations are becoming more stringent and global competition puts pressure on margins. Industrial clients can rely on Tetra Tech to provide proven solutions to their most complex water treatment and environmental compliance challenges.

For more than 40 years, Tetra Tech has offered full-service, multidisciplinary, consulting and engineering services to industrial clients. Our integrated, turnkey approach and nationally recognized experts ensure successful industrial water treatment solutions from concept inception through start-up and commissioning of each treatment facility. The result is reduced risk and maximum value.



With our in-house pilot demonstration capabilities, broad technology experience, and process optimization expertise, Tetra Tech's team delivers the most effective options for treating industrial wastewater.

Mine Water Management

Tetra Tech is highly experienced in providing designs for removing common mine water contaminants as well as more unusual suspended and dissolved solids. Our strength is in our ability to develop simultaneous multiple-contaminant-removal process treatment solutions. Whether there is excess water or limited flows through the mine site, our economical, practical water treatment solutions address ever changing conditions.

Oil and Gas

Our expertise spans the entire hydrocarbon value chain, from upstream production to the midstream and downstream sectors. In the upstream sector, our oil and gas experts understand that produced-water disposal and treatment are a considerable constraint on production growth. Midstream and downstream sectors must also manage risks related to water treatment and corrosion control.

Iron and Steel

The coke manufacturing and steel-making industries have specific environmental challenges with wastewater treatment. Coke oven by-products contain organic and nitrogenous compounds, including polyaromatic hydrocarbons. In the steelmaking industries, oils and metals are released from acid pickling, alkaline cleaning, casting, and coating operations. Our experts understand the complexity of treating these wastewaters and provide technically sound and cost-effective solutions. Tetra Tech has successfully provided design-build services for the coke manufacturing industry. The implementation of the immersed membrane bioreactor process provides high quality treated effluent with a significant reuse potential. This innovative technology also helps to reduce the facility's environmental footprint.



no. **1** in
water treatment and
desalination
as ranked by
Engineering News-Record

Proven industrial water treatment expertise

Tetra Tech offers robust interdisciplinary technical capabilities to address the most challenging wastewater treatment concerns. Our planning services include permitting, wastewater surveys, water quality criteria negotiations, treatability studies, and process development. Science and operator expertise inform our design solutions.

Our team designs and constructs both conventional and innovative wastewater treatment technologies that align with our client's priorities and constraints, including a variety of primary, secondary, tertiary, and disinfection treatment methods. Tetra Tech's integrated approach ensures a smooth start-up and optimal operations so industrial clients may focus on production goals.

Steam Electric Power Generation

The U.S. Environmental Protection Agency's new Effluent Limitation Guidelines focus on the removal of selenium, mercury, arsenic, nitrates, and total dissolved solids from flue-gas desulfurization and gasification wastewater. These proposed rule changes are a significant regulatory and financial risk for power generators. Yet, electricity continues to drive the global economic growth and prosperity.

Food and Beverage

Water is used in every aspect of food and beverage production, from sanitizing process equipment to washing floors to the product itself. Many facilities are located in areas where water shortages are growing, discharge limits are becoming more stringent, or wastewater discharge costs are climbing. Tetra Tech helps our food and beverage clients meet their water challenges by developing water conservation programs, engineering water reuse systems, and designing new treatment plants. We have expertise in the systems used in the food and beverage industry. With our in-house chemists, laboratory assets, and pilot testing capabilities, Tetra Tech provides our clients scientifically based, cost-effective solutions.

Automotive, Aerospace, and Manufacturing

With dwindling clean water supplies and continued population growth, there is pressure to manage water resources more efficiently. Sustainable water management in manufacturing offers strategic competitive advantages that lower costs and increase profit margins.

Safety Culture at Tetra Tech

Safety is the most important aspect of every project we undertake—from the planning phases to project kick-off, and every day on the site. Tetra Tech has developed a culture of sustainability in safety and a long-term commitment from our top management through to each field technician. Our reduction of workplace injuries and lost-time accidents is part of our pursuit of zero incident performance across our projects.



TETRA TECH

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Tetra Tech's innovative, sustainable solutions help our clients address their water, environment, infrastructure, resource management, energy, and international development challenges. We are proud to be home to leading technical experts in every sector and to use that expertise throughout the project life cycle. Our commitment to safety is ingrained in our culture and at the forefront of every project. We combine the resources of a global, multibillion dollar company with local, client-focused delivery. [tetrattech.com](https://www.tetrattech.com)