Industrial Water Testing

Enhancing Water Stewardship Across Industry

Water is critical in the processing, washing, diluting, cooling, and transportation of most manufactured products. According to the Water Resources Group, the rapidly increasing water demand is expected to exceed the current supply by 40% by 2030. Industry realizes that water-wasting production methods jeopardize long-range operation plans and production costs. Consequently, over 90% of businesses in water-intensive industries and over 60% of business in non-water-intensive industries have developed a formal water strategy[1].

We support these companies as they enhance stewardship of water and troubleshoot water treatment processes. We provide application-specific testing that goes beyond what is typically provided by environmental laboratories, with more than 200 scientists, engineers, and technicians. Their diverse technical backgrounds and experience are available to provide laboratory and technical problem-solving support throughout your manufacturing and production processes. Our broad range of specialized services include:

Water Analysis – Water chemistry utilizing certified Standard Method and EPA methods of analysis

Particle Characterization – Particle size distribution, composition, morphology, identification, and imaging of particulate in industrial waters. Particle size distribution by particle type/composition via SEM. Membrane fouling assessment

Scales and Deposit Characterization – Identification, cause assessment, and inhibition of scales/deposits formed during water use, processing and treatment

Filters and Membranes – Cause of blinding/fouling, porosity and integrity assessment, efficiency evaluation, membrane autopsy

Solids Handling – Sludge properties, floc size and characteristics, settling issues, evaluation of dewatering process

Chemical Treatment and Water Processing Strategies – Independent bench scale evaluation of water treatment chemicals and processes

Failure Analysis –Failure assessments of metals, polymers, concrete and other materials in aging infrastructures used to process and transport water

Corrosion Assessment – Potential for corrosion, corrosion root-cause evaluation

Contact us today for more information!