

U.S. Environmental Testing Market Size, Share & Trends Analysis Report By Technology (Rapid, Conventional), By Sample (Soil, Air), By Target Tested, By End-use, And Segment Forecasts, 2024 - 2030

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Abstracts

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U.S. Environmental Testing Market Growth & Trends

The U.S. environmental testing market size is anticipated to reach USD 3.65 billion by 2030 and is growing at a CAGR of 7.6% from 2024 to 2030, according to a new report by Grand View Research, Inc. Wastewater treatment has emerged as a significant driver for the market, primarily due to the increasing emphasis on water quality and sustainability.

The surge in industrial activities and the growth of urban populations have increased the volume of wastewater produced, underscoring the need for rigorous testing to guarantee that the water discharged into the environment complies with safety norms. This situation has boosted the need for environmental testing services, which involve examining water, soil, air, and waste materials to identify pollutants, toxins, pathogens, and ensure adherence to environmental laws. Environmental testing is carried out at Effluent treatment plants (FTP) to determine the presence of harmful contaminants in wastewater being discharged into the environment. Hence, with the growing industrialization and urbanization, the market demand is anticipated to grow over the forecast period.

Moreover, the growing concern over microplastics in the environment is further driving

the market. These tiny particles are found everywhere, from oceans and rivers to soil, making it crucial to monitor and test them to understand their effects on ecosystems and human health. The federal government enacted the Microbead-Free Waters Act of 2015 to prohibit manufacturing, packaging, and distribution of rinse-off cosmetics containing plastic microbeads and over-the-counter (OTC) drugs. As a result, there is an increasing need for advanced environmental testing services and technologies to identify, measure, and study microplastics, aiming to reduce their impact on aquatic ecosystems.

In addition, the strict environmental laws and regulations, as well as the active involvement of numerous governments such as the Environmental Protection Agency (EPA) to monitor the level of hazardous contaminants being discharged by companies, further necessitates the companies to adopt environmental testing. For instance, the State of New York passed Bill A07063A to modify Section 37-0121 of the Environmental Conservation Law, thereby prohibiting the intentional addition of per- and polyfluoroalkyl substances (PFAS) chemicals in apparel products, starting from December 31st, 2023.

Environmental testing helps the facilities identify pollutants such as heavy metals, PFAS, and chemicals being discharged from facilities, thereby ensuring that processes in the facilities are effective, helping them maintain sustainability and adhere to the strict environmental pollution standards in the U.S.

U.S. Environmental Testing Market Report Highlights

Rapid technology dominated the market and accounted for a share of 67.46% in 2023 and is expected to witness the highest CAGR of 7.9% over the forecast period owing to a number of advantages, including the fact that rapid methods provide tangible benefits such as greater accuracy, precision, sensitivity, and reproducibility

Wastewater/Effluent sample accounted for the largest market revenue share of 31.45% in 2023 as wastewater treatment is required to preserve public health and the environment, as well as to keep industrial processes running smoothly

The air sample segment is expected to register the fastest CAGR of 8.4% during the forecast period. With the growing industrialization, the level of air pollution has been increasing, and there is a need to monitor the harmful contaminants present in the air

Chemical target-tested segment dominated the market in 2023 with a market share of 24.60%. , owing to growing awareness to reduce chemical pollution in water, air, and soil is expected to fuel the demand for environmental testing in the U.S. in the coming years

The government end-use segment of the environmental testing market accounted for 26.4% of the U.S. market revenue in 2023, owing to the rise in government programs promoting a green & sustainable environment and increased public-private investments for implementing environmental testing systems

In March 2024, ALS announced strategic acquisitions of York Analytical Laboratories in the Northeast USA and Wessling Holding GmbH & Co. KG in Western Europe as a part of ALS's efforts to support its strategic growth agenda in the Life Sciences portfolio, specifically in the Environmental business. This acquisition is expected to reinforce ALS's expansion in the USA environmental market, particularly in the rapidly developing northeast region, where investments in infrastructure and addressing problems, such as PFAS contamination, are expected to have a positive long-term impact

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