

# Drone-Assisted River Pollution Mapping Market Size Worth \$3.02 Billion by 2029 - Exclusive Report By TBRC

*The Business Research Company's Drone-Assisted River Pollution Mapping Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034*

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/EINPresswire.com/ -- How Much Is [The Drone-Assisted River Pollution Mapping Market Worth?](#)

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In recent times, the market size for drone-assisted river pollution mapping has seen rapid growth. The expansion is projected to go from \$1.32 billion in 2024 to \$1.56 billion in 2025, with a compound annual growth rate (CAGR) of 18.3%. Factors contributing to this historic growth

include an increase in drone usage, a heightened need for immediate water quality assessment, a surge in industrial wastewater discharge, development of government initiated river conservation projects, and an increased necessity for affordable pollution mapping techniques.



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In the coming years, the market size for drone-supported river pollution mapping is projected to witness significant growth, reaching \$3.02 billion in 2029 with a compound annual growth rate (CAGR) of 17.9%. Several factors will contribute to the growth during this forecast period,

including the increasing demand for instantaneous environmental data, the need for superior quality spatial mapping, a rise in the occurrences of diseases spread through water, the expansion of environmental regulations, and heightened water pollution awareness among the public and government. Key trends set to shape this period are the advancements in AI and sensor integration technology, breakthroughs in autonomous drone navigation, the evolution of real-time data analysis platforms, a surge in investments for multispectral and hyperspectral imaging research and development, and new developments in drone swarms for extensive environmental monitoring.

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### What Are The Factors Driving [The Drone-Assisted River Pollution Mapping Market?](#)

The escalating need for maintaining environmental stability is projected to catalyze the expansion of the drone-aided river pollution charting market. Environmental sustainability involves conscious interactions with the environment to preserve and maintain natural resources for present and future generations. This raised awareness regarding environmental sustainability arises from stringent governmental rules and guidelines enforcing obligatory recycling standards and green industrial practices. The utility of drone-aided river pollution mapping in promoting environmental sustainability is evidenced in its provision of real-time water quality and pollutant monitoring, simplifying the process of locating pollutant sources. It minimizes manual labor by swiftly and precisely surveying vast areas, thus boosting efficiency in managing the environment. For example, in October 2024, the United States Environmental Protection Agency, a U.S. government entity, reported a rise in greenhouse gas emissions to 322 million metric tons in 2023, marking a 1.4% growth compared to 2022. Therefore, the escalating demand for environmental stability is fuelling the expansion of the drone-assisted river pollution mapping market.

### Who Are The Major Players In The Drone-Assisted River Pollution Mapping Market?

Major players in the Drone-Assisted River Pollution Mapping Global Market Report 2025 include:

- SZ DJI Technology Co. Ltd.
- Autel Robotics Co. Ltd.
- Saildrone Inc.
- Microdrones GmbH
- OceanAlpha Co. Ltd.
- Delair SAS
- AgEagle Aerial Systems Inc.
- IG Drones
- Soarability Technology Co. Ltd.
- Blueye Robotics AS

### What Are The Key Trends Shaping The Drone-Assisted River Pollution Mapping Industry?

Prominent businesses in the drone-assisted river pollution mapping industry are emphasizing on the development of technologically advanced methods like winch technology for precise and real-time water sampling in challenging terrains. Winch technology in drones is a technology that remotely moves up or down sensors or equipment during flight, facilitating accurate water sampling in rivers or coastal regions for pollution mapping. For instance, in January 2024, Skyports Ltd., a UK-based state-of-the-art aerial mobility company, collaborated with Makutu, a UK water data analysis company. Together, they introduced a drone-aided water quality

monitoring service with Northumbrian Water. The project employs electric drones integrated with specialized winch technology to drop water sensors into rivers and coastal zones, which allow for real-time data gathering on water purity. This unique strategy aids in quicker, safer, and more effective surveillance of hard-to-access regions, diminishes the necessity for manual sampling, and gives crucial insights to aid swift environmental management and pollution reduction. The drones are equipped for beyond visual line of sight (BVLOS) tasks, enabling them to survey large territories in a single journey without needing to return to the base, drastically enhancing operational productivity.

Which Segment Accounted For The Largest Drone-Assisted River Pollution Mapping Market Share?

The drone-assisted river pollution mapping market covered in this report is segmented

- 1) By Solution: Hardware, Software, Services
- 2) By Sensor Type: Optical, Thermal, Light Detection And Ranging (LiDAR), Multispectral, Other Sensor Types
- 3) By Application: Water Quality Monitoring, Waste Detection, Sediment Analysis, Algal Bloom Detection, Other Applications
- 4) By End-User: Government Agencies, Environmental Organizations, Research Institutes, Industrial Facilities, Other End-Users

Subsegments:

- 1) By Hardware: Sensors, Drones, Imaging Devices, Global Positioning System (GPS) Modules, Communication Systems
- 2) By Software: Data Analytics Platforms, Mapping Software, Remote Monitoring Tools, Artificial Intelligence (AI) Algorithms, Simulation Models
- 3) By Services: Data Collection, Surveying and Monitoring, Maintenance and Support, Consulting Services, Training and Integration

View the full drone-assisted river pollution mapping market report:

<https://www.thebusinessresearchcompany.com/report/drone-assisted-river-pollution-mapping-global-market-report>

What Are The Regional Trends In The Drone-Assisted River Pollution Mapping Market?

In 2024, the Asia-Pacific led the global market for drone-assisted river pollution mapping. The forecast for its growth remains positive. The report includes various regions such as the Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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