



Introducing

March 2027

Global Wastewater Day



A global initiative to capture the first simultaneous snapshot of public health through wastewater, to take place on the 31st March 2027.

On a single coordinated day, participating sites will collect a wastewater sample and send it to Bangor University for centralised analysis. Together, this will generate a unique global dataset providing insight into antimicrobial resistance, pathogens, pharmaceuticals, and wider health indicators.

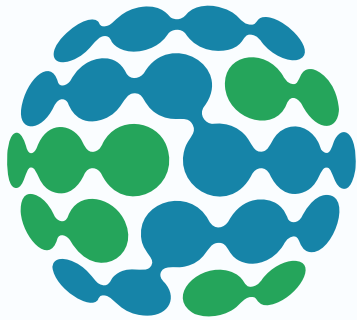
[CLICK HERE TO GET INVOLVED](#)

We are now inviting organisations and researchers to register their interest in taking part in Global Wastewater Day. Sign up now to stay updated. Get early access to resources, and be the first to hear about how you can take part, whether actively sampling or simply following the project's progress.

A dedicated Global Wastewater Day website is currently in development and will be launched soon. All registered contacts will be kept updated as further details, resources, and timelines are released.

We'd love for you to be part of this global effort and welcome you to share this with colleagues or networks who may be interested.

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Global Sample Collection

From wastewater treatment plants



On-site Preparation

Samples processed and preserved



Co-ordinated Analysis

Via global partner laboratories



Global Data Integration

Shared data, collaborative outputs,
and training





Global Wastewater Day

A global initiative to capture the first simultaneous snapshot of public health through wastewater.

On one coordinated day, countries worldwide will collect wastewater samples, providing unprecedented insight into global health, antimicrobial resistance, and environmental trends.

Held annually, Global Wastewater Day will build a long-term international observatory to track human and environmental health, provide training, strengthen collaboration, and advance wastewater-based epidemiology (WBE).



Scientific Rationale

Wastewater-based epidemiology (WBE) is a powerful tool for monitoring community and environmental health, yet a coordinated global survey has never been conducted on a single day. Global Wastewater Day aims to change this by bringing together communities, local partners and researchers to collect wastewater samples worldwide to create the first unified snapshot of global public health. Using advanced techniques, like metagenomics, qPCR, mass spectrometry and other established methods, the initiative will detect indicators of AMR, pathogen prevalence, pharmaceuticals, and human health indicators, to generate insights that benefit both national and global health efforts.



Tangible Outcomes

Public Health Portal: Development of an open access, interactive global health platform that visualises global wastewater data to support policymakers researchers and communities.

High-Impact Publications: Collaborative scientific papers in leading journals, translating biological and chemical signals into global public health insights, with a dedicated annual session at the World Water Congress meetings, strengthening global engagement and inclusion.

WHO Technical Report: A formal report to the World Health Organization (WHO) outlining international standards, governance, and recommendations for future Global Wastewater Day activities.

Early Warning System: Foundational data to support a global early warning system for emerging health threats and antimicrobial resistance trends, pathogen prevalence, as well as non-communicable disease risk factors.

Key Scientific Aims

Collaborative Infrastructure: Prioritise equity and inclusivity by supporting low- and middle-income countries to develop wastewater monitoring and analytical capacity, ensuring all communities can participate in and benefit from this global effort.

Establish Baseline Metrics: Create a global dataset of health indicators by sampling diverse geographical, climatic, and socioeconomic contexts.

Build Methodological Capacity: Shared training and use of cutting-edge technologies and standardised protocols to compare analytical platforms, validate emerging techniques and upskill the community.



Taking place on the 31st March 2027

For more information, visit:
globalwastewaterday.org