

Why water quality monitoring matters?

Development of Tajik Surface Water Monitoring
through Quality Management and Collaboration
(TJK Water Quality II project 2021–2025)



**IMPROVED
EXPERTISE**



**BETTER
KNOWLEDGE**



**SAFER
WATERS**



Waters in Tajikistan

Tajikistan possesses abundant freshwater resources. The estimated yearly water availability from its rivers, lakes and glaciers is 981,5 km³; almost 60 % are concentrated in glaciers and snow fields. Tajikistan's 1300 natural lakes account for approximately 20 km³ of the country's freshwater resources. Its 947 rivers and seasonal rivers make up almost 64 km³ of total annual water flow into the Central Asian region's two largest river systems, 98 % to the Amu Darya River Basin and 2 % to the Syr Darya River Basin.

Water quality monitoring matters

Water quality monitoring identifies water contaminants that may cause significant health hazards. It also provides data that can be used to plan and manage water resources effectively and to maintain the ecological balance of aquatic ecosystems.

Aims of the TJK Water Quality II project

The work of the project is focusing on four different and interconnected outputs:

- 1. Complying with ISO 17025:** Partner laboratories in Tajikistan will produce water monitoring data on selected water parameters.
- 2. Improving ecological monitoring through management and collaboration:** The surface water laboratories will increase cooperation for sharing and strengthening their expertise.





Early detection of water quality problems allows prompt actions preventing further deterioration which could lead to expensive cleanup efforts.

Open access to water quality information helps raise public awareness of the importance of protecting water resources and encourages responsible behavior among individuals and organizations.

3. Producing data in electronic form: Laboratories will provide surface water quality data through an electronic database.

4. Providing access to environmental information: Information on surface water quality is available for stakeholders and the public.



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Project partners from Tajikistan and Finland

- **The Committee of Environmental Protection (CEP)** under the Government of the Republic of Tajikistan is the central executive authority on environmental protection. The two main participating laboratories are part of the governance structure of the CEP:
 - **The Laboratory of the Centre for Analytical Control and analysis of CEP** which monitors quality and impacts of industrial and municipal waste waters.
 - **The Surface Water Laboratory of the State Agency for Hydrometeorology** which monitors the quality of national and transboundary surface waters.
- **The Finnish Environment Institute (Syke)** provides expertise in environmental policymaking, administration, and advanced monitoring techniques. Syke is the national reference laboratory in Finland. Syke administrates the TJK Water Quality II project.

The Project is implemented under the Institutional Cooperation Instrument (ICI) of the Ministry for Foreign Affairs of Finland.



syke.fi/projects/TJKWaterQuality2



Ministry for Foreign
Affairs of Finland



Suomen ympäristökeskus
Finlands miljöcentral
Finnish Environment Institute