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Integration of Fragmented Water Information... The First Step in the Integrated Information Platform Project for the Environmental Sector

- National Integrated Water Management Information Platform ‘Mulmoa’ launched to check nine water management information systems in one place
- Starting with water quality and water resources, the goal is to establish nine water management information systems by 2028, while completing the National Climate Crisis Adaptation Information Integrated Platform at the same time

The ‘National Integrated Water Management Information Platform,’ which allows users to check information from nine water management information systems in one place, has taken its first step. Starting with this, the ‘National Climate Crisis Adaptation Information Integrated Platform’ project is also set to be completed by 2028.

The Ministry of Environment (Minister Kim Wansup) and the National Institute of Environmental Research (NIER, President Kum Hanseung) announced that the National Integrated Water Management Information Platform, ‘Mulmoa’ (mulmoa.go.kr), built to integrate nine water management information systems scattered across various agencies, will be made public starting April 1.

The Mulmoa website is characterized by its ability to display nine water management information systems divided by the Ministry and its affiliated organizations, covering aspects such as water quality, water resources, and

rivers, all in one place.

*** < Information Systems by Nine Water Management Agencies >**

Water Quality	Water Resources		Rivers	Water Supply and Sewage Systems		Groundwater	Disasters	
Water Environment Information System (NIER)	Water Resources Management Information System (Flood Control Office)	Water Information Portal (K-water)	River Management Geographic Information System (Ministry of Environment)	National Water Supply Information System (Entrusted to K-water)	National Sewage Information System (Entrusted to Korea Environment Corporation)	National Groundwater Information System (Entrusted to K-water)	Drought Information System (Entrusted to K-water)	Flood Control Office Website (Flood Control Office)

In order to integrate water information provided in a fragmented manner by various agencies, the Ministry established an information strategy plan for the construction of the ‘National Integrated Water Management Information Platform’ from November 2021 to October 2022.

In 2024, standardization was carried out to align display units*, and a system was established to allow various water information to be viewed at a glance based on Geographic Information System (GIS) spatial data.

* The water level measurement units written in centimeters (cm) or meters (m) according to different agencies were standardized to meters (m).

In 2025, the Mulmoa website will be made available for use starting April 1, and it is planned to provide information (71 types) from the NIER Water Environment Information System and the Water Resources Management Information System of the Flood Control Office by the first half of 2026.

In particular, starting from the launch date of the Mulmoa website (April 1), some basic information (36 types) from the existing nine water management information systems will be provided in one place, allowing users to comprehensively check basic water environment information such as river water levels, flow rates, and water quality around their location based on GIS spatial data.

The Ministry plans to integrate the remaining seven water management information systems into the Mulmoa website by 2028, providing users with a smart dashboard that connects at least 278 types of water management information. In addition, it will either abolish the existing information systems or adjust the functions of overlapping information.

For example, when searching for the word “Gumi,” a variety of measurement information such as water resources, water quality, and groundwater in the Gumi area, as well as a list of information including river names and descriptions of river facilities that contain the searched term, will be displayed on the map.

Meanwhile, the Ministry plans to establish the ‘National Climate Crisis Adaptation Information Integrated Platform’ by 2028, selecting water management information from the National Integrated Water Management Information Platform (Mulmoa) for use as adaptation information in response to the climate crisis.

This platform will consolidate climate crisis adaptation information from various sectors, including water, agriculture, forestry, ecology, and marine fisheries, providing it in a comprehensive manner for easy access by all citizens.

Kim Hyo-jung, Director General of Water Use Policy Bureau, stated, “With the increasing frequency of floods and droughts due to the climate crisis, the demand for rapid and accurate integrated information in the environmental sector is higher than ever.” She emphasized, “Starting with this integrated water information provision, we will do our best to complete the system so that citizens can conveniently access various environmental information in their daily lives, and that public officials and experts can use it as a reference for efficient policy decision-making.”