



LEVERAGING SDG 6 FOR ACCELERATED WATER INVESTMENTS IN CARIBBEAN SIDS WORKSHOP

MINI ACTION PLAN

PREPARED BY : **BARBADOS**



ACTION 1: GROUNDWATER MONITORING PROGRAMME EXTENSION AND AUTOMATION

Establish an early warning system to protect public water supply wells from pollution sources. This will involve the installation of monitoring boreholes and include telemetry for real time monitoring of physicochemical and selected pollution indicators.



STRATEGIC OBJECTIVE

Establish an enhanced monitoring programme to track the effects of landuse changes within five years on groundwater aquifers through real-time tracking of critical human health and environment water quality parameters.

RATIONALE

The demand for land to support social and economic development is resulting in pollution from wastewater disposal, which is resulting in the redistribution of pollution from the coast to inland groundwater resources. There are delays in the distribution of results from groundwater samples within a time for the appropriate corrective action to be taken to protection the public from hazards in drinking water. Installation of monitoring boreholes and monitoring equipment with telemetry could allow for advance warning in the changes of physicochemical parameters such as REDOX potential, DO, pH temperature and other pollution indicators.

Name Of Action	Groundwater Monitoring Programme Extension and Automation
Leading Entity	BWA/EPD
Key Coordinators/Collaborators	BWA EPD MET, Agriculture, CIMH
Geographical Scale	National
Estimated Cost	Installation of monitoring boreholes, Procurement of Equipment, Maintenance of equipment, development of information management system, training of relevant personnel,
Potential Sources Of Financing	3 Million US\$
Timeline	GOB, GCF, GEF, DCFO
IWRM Dimension	4 Years
Related SDG Target	Institutions and Participation and Management Instrument

ACTION 2: DEVELOPMENT OF WASTEWATER REUSE REGULATIONS

Support the implementation of the Water Reuse Act 2023 through the development and implementation of Regulations. Specific standard for agriculture, urban, groundwater recharge, and domestic use.

STRATEGIC OBJECTIVE

Work collaboratively with stakeholders to provide clarity within three years on the requirements for the use of treated wastewater at the national scale.

RATIONALE

To safely operationalize the use of reclaimed water and to ensure that critical stakeholders understanding and appreciate the risk of wastewater reuse. The use of treated wastewater is currently used without any reference to standards across the various dimension from wastewater treatment plant performance to plumbing standards. Regulations will set the stage for investment in the area of wastewater reuse. Insert why this action is important, what challenge it is tackling, and what benefits it would bring.

Name Of Action	Development of Wastewater Reuse Regulations
Leading Entity	Ministry of Health and Wellness
Key Coordinators/Collaborators	EPD, BNSI, BWA
Geographical Scale	National
Estimated Cost	Risk Assessment and Literature Review, Best Practice Assessment, Preparation of drafting Instruction, Drafting of proposed Regulations, Stakeholder Consultations, Preparation of Draft Final Regulations US \$200,000.
Potential Sources Of Financing	Government, GCF, GEF
Timeline	1 year
IWRM Dimension	Enabling Environment
Related SDG Target	SDG 1, 2, 6, 12, 14