MINISTRY OF WATER AND ENVIRONMENT

JOINT SECTOR REVIEW 2018

Funding Requirements for Water Quality Management

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18th -20th September 2018



Introduction

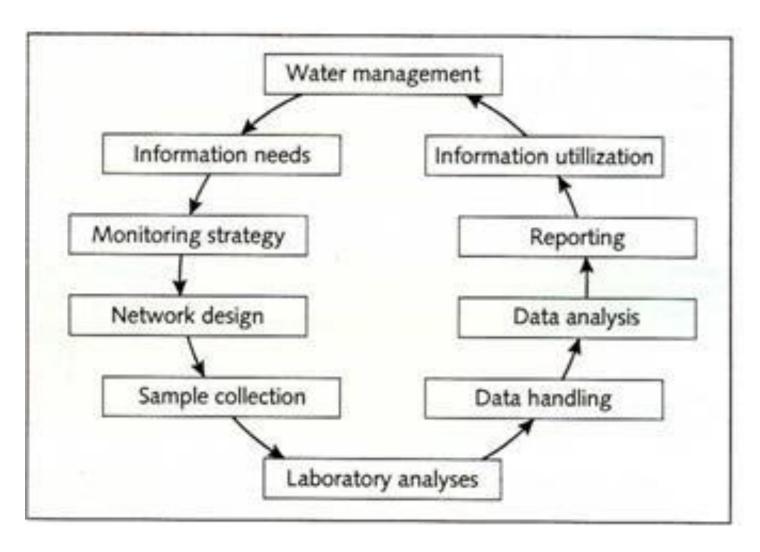
Mandate

The mandate of Water Quality Management Department as derived from the Water Act Cap 152 is: to investigate the quality of water in order to promote provision of adequate quality of water for all uses and sustainable management of water resources.

Water quality investigations performed through

- Water quality assessments and
- Water quality monitoring

The Water Quality Monitoring Cycle



Chapman, 1996

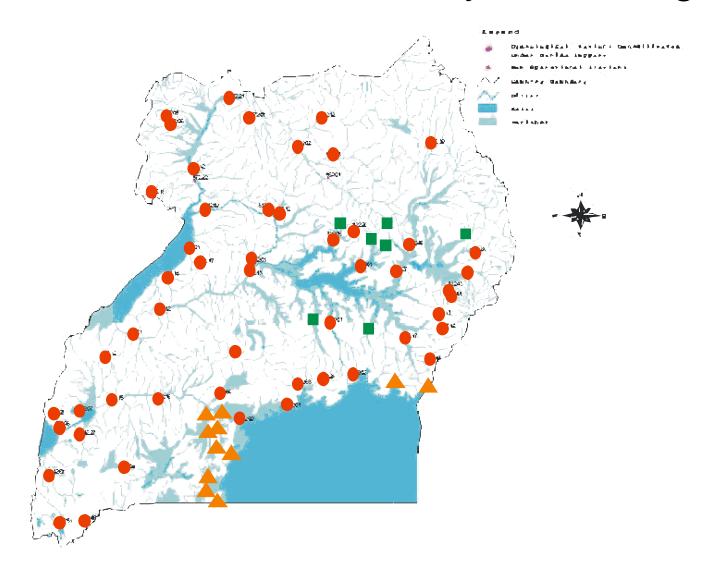
Water Quality Monitoring Network



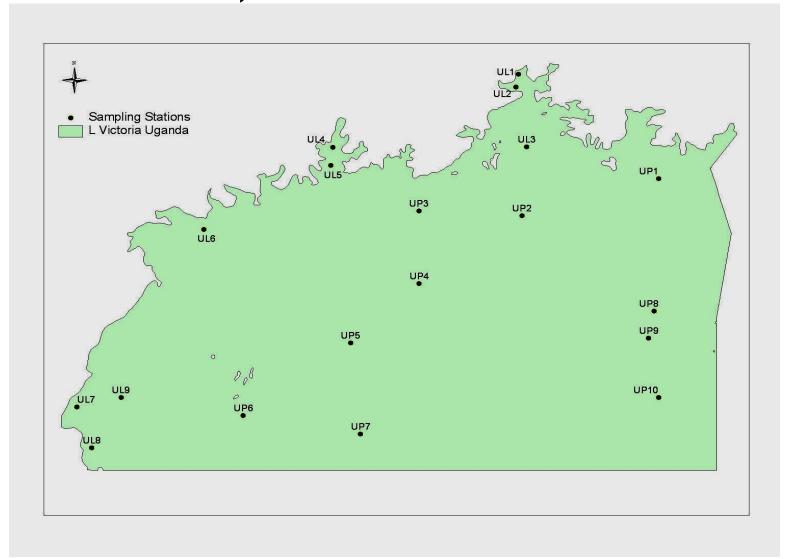
Туре	No	Monitoring Objectives
Ambient monitoring • Surface - Rivers - Lakes - L. Victoria - Transboundary stations • Groundwater	56 19 19 10 8	 Status and trend detection in rivers, lakes Testing of water quality standards Calculation of loads
 Effluent monitoring Industrial effluents Municipal wastewater 	<mark>66</mark> 5	 Calculation and control of discharge standards Monitoring of plant performance
Early warning Operational monitoring	0 12	 Warning for calamities Protection of downstream functions Monitoring for operational uses such as water treatment works Monitoring of drinking water

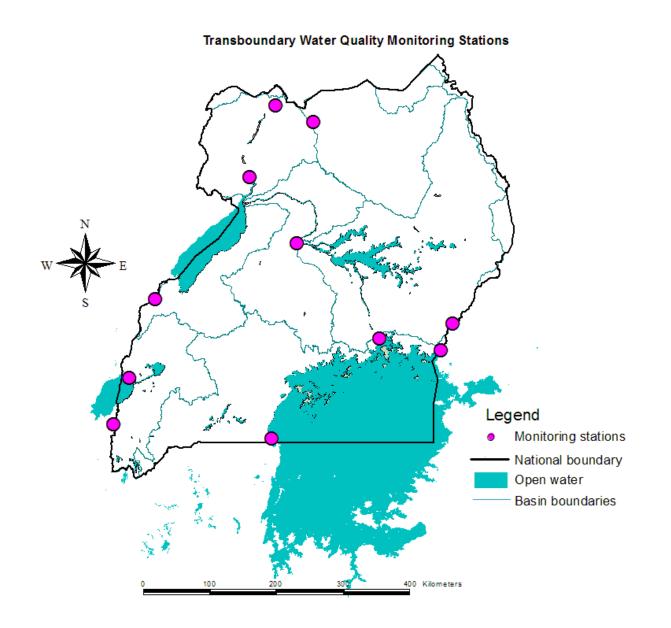
- Currently only 119 are monitored
- Additional 76 not included on national network yet due to financial constraints
- Network is under review

119 National Water Quality Monitoring Stations

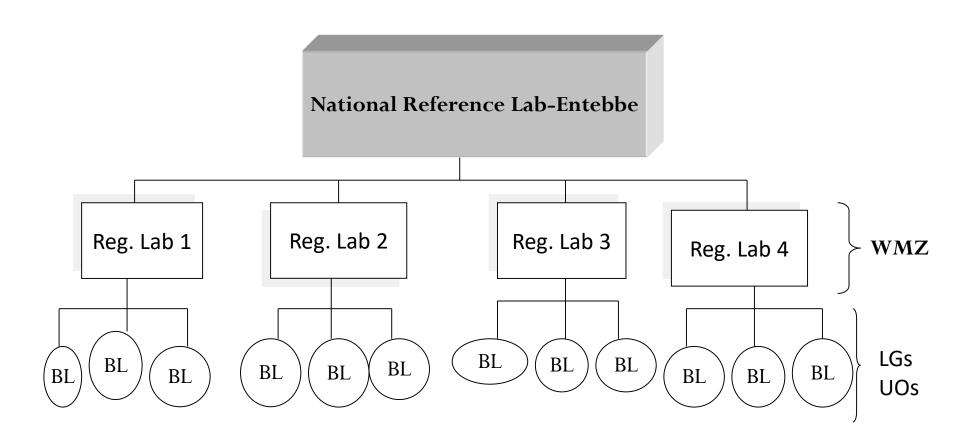


Regional Water Quality Monitoring on L. Victoria, 19 stations





Water quality testing Laboratories 3- Tier Structure





Data Generation

Laboratory Accreditation required









Data Handling and Storage

- Web-based database and information system
 - ✓ Data turned into information
 - ✓ Generation of products
 - ✓ Feeding into the WIS
 - ✓ Decision making





Funding Gap

Investment Required

Item		Funds required UGX, billion
NWQRL (Cor	nstruction)	20
Mbarara WC	Regional Lab & furnishing & equipping others	10
• Lab. accredit	tation	3.84
National Fra	mework for WQM & Regulation	32
Project for n	nanagement of pollution in IMB	50
• SDG 6.3.2 (e	conomic study)	US\$ 1.8 billion

Funding Gap

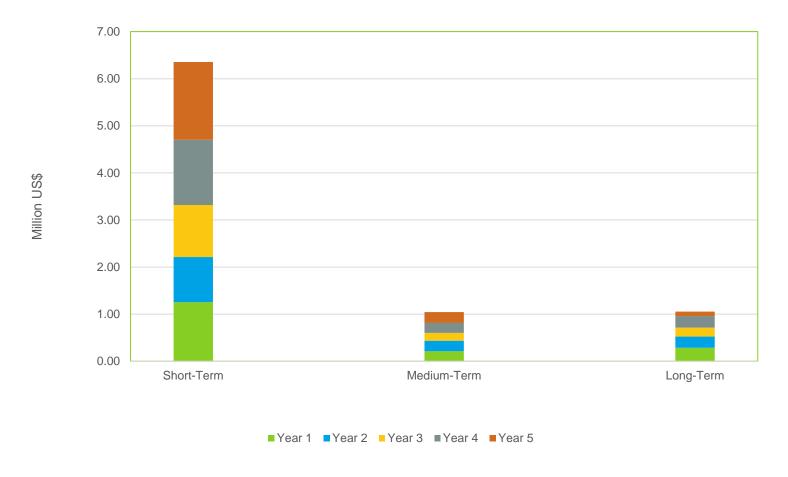
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Network & Lab. O & M

Item		Required Funds UGX, million	2018/19 GoU UGX, million	Funding gap UGX, million
Netv	vork			
•	Ambient	304		
•	Lake Victoria	608		
•	Operational	152		
•	Regional WQ Labs	240		
Labo	pratory			
•	Reagents & Consumables	382		
•	Equipment (annual service)	58		
•	Equipment (spare parts)	477		
•	Lab. QS	70		
		2,291	676 million	1,615

- Annual JPF budget for Water Quality Management was approx..0.9 1.4 bn (closed)
- GoU Dev (2018/19) of 576 million is shared under SWRM (closing this financial year)
- Recurrent Non-wage is 100 million (Administration & management, staff welfare etc)

Funding Gap Implementation of National Framework



Total = US\$ 8,441,604.00



Implication of Inadequate Funding

- i. Increased pollution of water resources.
- ii. Increasing cost of water treatment due to increased pollution.
- iii. Continuous outbreak of water borne diseases & other water related illnesses.
- iv. Decreased fisheries & loss of other biodiversity.
- v. Inadequate enforcement of policy, laws, and regulations.
- vi. Failure to achieve accreditation implies loss of trade opportunities.
- vii. Slowing achievement of middle income status.

Thank you

For Your

Attention