

DETERMINATION OF WATER RESOURCE CLASSES AND ASSOCIATED RESOURCE QUALITY OBJECTIVES IN THE INKOMATI WMA

PROJECT STEERING COMMITTEE MEETING

Date: 20 August 2013 Time: 09:30 Venue: Bundu Country Lodge, Nelspruit







PRESENTATION CONTENT

- > The Water Resource Classification System (WRCS)
- Resource Quality Objectives (RQOS)
- Study Area
- Process for the classification of water resources and determination of the Resource Quality Objectives in the Inkomati WMA







LEGAL MANDATE

- The classification of South African water resources is required by the National Water Act (NWA) (No. 36 of 1998) (Chapter 3 regarding the protection of water resources)
 - Class
 - Reserve (Preliminary)
 - Resource Quality Objectives

(RDM–Set objectives for the desired condition of water resources)

- Regulation 810 published in Government Gazette No. 33541 dated 17 September 2010 defined water resource management classes and the procedure to determine a Class
- According to the NWA, once the WRCS has been gazetted all significant water resources must be classified







INTEGRATED WATER RESOURCE MANAGEMENT



THREE MANAGEMENT CLASSES (MC)

Classes	Description of use	Ecological categories
Class I	Minimally used	A-B
Class II	Moderately used	C
Class III	Heavily used	D

Ecological Category (EC) - means the assigned ecological condition to a water resource in terms of the deviation of its biophysical components from a predevelopment condition.



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CLASSIFICATION SYSTEM

- The WRCS provide guidelines and procedures for setting different MC (MCs);
- MC describes what state the water resources need to be in to satisfy beneficial use;
- MC facilitates the balance between protection and use of the water resources;
- MC is defined by taking into account the social, economic & ecological landscape;
- Process requires co-operation & transparency with all stakeholders.







RESOURCE QUALITY OBJECTIVES (RQOS)

- RQOs are numeric or descriptive statements of conditions which should be met in the receiving water resource;
- RQOs represent the requirements for water quantity, quality, and habitat and biotic integrity to be maintained in aquatic ecosystems.
- They are targets that can be measured/audited, and can be used as benchmarks to monitor a combined resource that may have several licensed users.
- RQOs provide measurable goals that give direction as to how the resources need to be managed.







THE LINK OF RQOS WITH WATER RESOURCE CLASSIFICATION





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Classification and RQOs Determination

- The determination of classes and RQOs is a step-wise process consisting of:
- Assessment of the study area and delineate the IUAs
- Identify and evaluate the scenarios
- > Setting of the class, userspecs and ecospecs
- Stakeholder engagement







WHY CLASSIFYING INKOMATI WMA?

- > Agricultural and mining runoff impacting on water quality salts
- > AMD Impacting on water quality
- Further exacerbated by over-abstraction & unlawful water use (Surface and groundwater)
- > Degradation of natural resources
- > International obligation towards neighboring countries







THE PURPOSE OF WATER RESOURCE CLASSIFICATION

- > Ensure long term sustainable use of the water resources
 - Quality and quantity
- Provide framework in which goals (resource quality objectives) can be set to measure regulatory performance and compliance
 - Water Quality
 - Water Quantity
 - River and wetland habitat and biota







HOW WILL CLASSES AND RQOS ASSIST IN THE MANAGEMENT OF THE CATCHMENT?

- The catchment vision requires a desired state of the water resources
- RQOs will give effect to the implementation of the MCs
- There will be management framework describing the following:

The extent to which every significant water resource can be used, andThe level of protection every significant water resource will be afforded.

Develop plan of action for implementation of recommended classes and RQOs which must include a monitoring programme.







DETERMINATION OF CLASSES AND RQOS IN THE INKOMATI WMA





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DETERMINATION OF CLASSES AND RQOS IN THE INKOMATI WMA

- > The study was initiated in April 2013: still in the inception phase
- Timeframe: 24 months
- IWR Water Resources was appointed to assist DWA
- The objective of the study is to determine classes and RQOs in the Inkomati WMA









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GUIDING PRINCIPLES ON THE PROJECT

- > Alignment with the existing work and current studies
- > Transparency and Stakeholder engagement
- Consultation and collaboration
- The classification and determination of the RQOs are step-wise processes







STUDY PROCESS

In accordance with the classification and RQOs guidelines: 7 step process applies



STAKEHOLDER ENGAGEMENT





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PURPOSE OF THE STAKEHOLDER ENGAGEMENT PLAN

- To engage with stakeholders on the determination of the Management Classes & RQOs in the Water Management Area
- To extend stakeholder engagement to all the key stakeholders
- To have one-on-one meetings with the key stakeholders who could not attend the workshops
- To communicate Communication Plan for the study







OBJECTIVES OF THE STAKEHOLDER ENGAGEMENT PLAN

- To improve the management process of this project.
- •To reduce the potential for future conflict.
- •To enable the Department and stakeholders to share knowledge and expertise.
- •To inform and educate stakeholders about the Department's function and responsibilities.





TARGETED STAKEHOLDERS

- > Agriculture Agri SA, NAFU, Irrigation boards, Tvl Agric Union of SA
- Emerging Farmers
- Mining COM and mining houses
- Industries Eskom, SAPPI, TSB Sugar, etc
- Local government local and district municipalities in WMA
- > Conservation SANBI, Sanparks, WESSA, Bird Life Africa
- > NGOs AWARD, Federation of Sustainable Environment
- Regulators DWA & DEA (regional and national), DMR, Department of Agriculture, Land Affairs
- Water Service Authorities/Providers- SembCorp, BCT Water, etc.



TARGETED STAKEHOLDERS [Cont.]

- > Information/Academic institutions libraries, universities
- > Unions & House of Traditional leaders
- Catchment Forums & WUA
- Civil society and the environment representatives
- Community members (public at large)



COMMUNICATION METHODS/ APPROACH

- Direct –PSC, TTG meetings & Stakeholder engagement workshops
 Distribution of documents and presentations for comments
- Interviews One-on-One meetings
- Printed Documents BID, Newsletters & Brochures
- Electronic media DWA website: <u>www.dwa.gov.za/rdm/WRCS/default.aspx</u>

ICMA website: www.inkomaticma.co.za

E-mail (database list)







Platform	Group	Frequency	Purpose
PSC	Sector reps important to the study	Once in 6 months	•Delineation of IUAs •Status quo •Visioning exercise •FWBs
			•Select & define operational scenarios
			Scenarios ConsequencesRecommended classes, RQOs
TTG		Twice in 24 months	 Obtain advice on methodology Input on possible data gaps Comments and input on technical milestones Prioritisation of RUs for RQOs determination







Platform	Group	Frequency	Purpose
Public Participation	Broader public	Twice in 24 months	 Announce project Overview of classification process Integrating classification into other IWRM processes
			•Recommended classes, RQOs
Existing Fora	Croc River	Once per 1/4	Information sharing
	Croc operational		Project status
	Sabie River		
	Sabie operational		
	Komati		
	Komati Joint Operations		
	Inkomati Irrigation		
	Olifants Letaba Limpopo Inkomati		
	Mpumalanga Wetlands		
	REMCO		



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Platform	Group	Frequency	Purpose
Sectors (one-on- one)	Domestic: Municipalities Ward councillors Traditional leaders communities	Twice in 24 months	 Info sharing Engage on scenarios developed Recommended classes, RQOs
	Mining & Industries, e.g. Chamber of mines ESKOM	Twice in 24 months	 Obtain input on possible data gaps & verify the appropriateness of data/info collected Engage on scenarios developed Recommended classes, RQOs







Platform	Group	Frequency	Purpose
Sectors (one-on- one)	Agric: AGRISA NAFU Individual Farmers	Twice in 24 months	 Obtain input on possible data gaps Engage on scenarios developed Recommended classes, RQOs
	Conservation/Enviro nment: SANPARKS SANBI WESSA FSE MTPA AWARD	Twice in 24 months	 Obtain input on possible data gaps Engage on scenarios developed Recommended classes, RQOs







THE ROLE OF PROJECT STEERING COMMITTEE (PSC)

- > Non-statutory, voluntary body.
- Oversight body for water resource management within WMAs
- > To guide the project in all stages as it unfolds
- > To provide inputs on behalf of the sector it represents







THE OBJECTIVES (1)

- Provide strategic direction and guidance on the study process and tasks;
- Guide the study team on the desired state of water resources within the study area;
- Provide technical input and support to the process







THE OBJECTIVES (2)

- Provide direction on the significant water resources to be classified;
- Provide input to the technical process;
- Serve as representatives of the stakeholder bodies and organisations and report back to them on an ongoing basis regarding the study decisions and results.







FUTURE MEETINGS

- The PSC meeting will be held when the study team has reached milestones.
- It is anticipated that the PSC will not meet more than three times over the two-year period.
- > The meetings will be facilitated by the DWA.
- Proposed timeframes for the meetings are
 - August 2013
 - February/March 2014
 - September/October 2014



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WAY-FORWARD

- > The Finalisation TOR for the PSC
- > Collation of information arising from catchment visioning exercise
- > Distribution of newsletter and reports for comments
- > Updating the Issues & Responses Register
- > To engage with identified stakeholders
- > Updating the Stakeholder Engagement Plan







THANK YOU





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