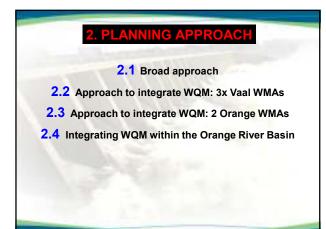


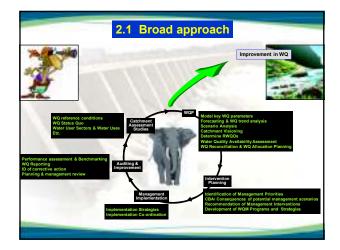


1.1 Strategy Aim

- Maintaining or improving the WQ of the water resources within the System for the benefit of all recognized water users and beneficial water uses in order to assist in securing ecologically sustainable development, while also promoting justifiable social and economic development;
- Managing the water resources of the System in order to comply with the determined integrated RWQOs;
- Controlling the salinity, eutrophication and microbiological contamination levels in the System, and major tributaries, as the key WQ issues identified;
- Improving source management controls and measures as a means to limit and control point and diffuse sources that significantly impact on the water resources of the System; and
- Improving management of the water resources of the System by more effective monitoring, assessment, reporting and management participation.







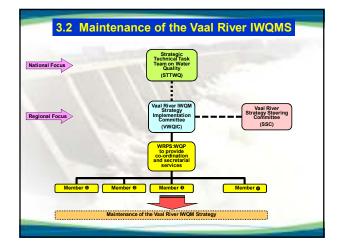


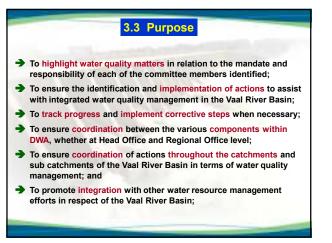


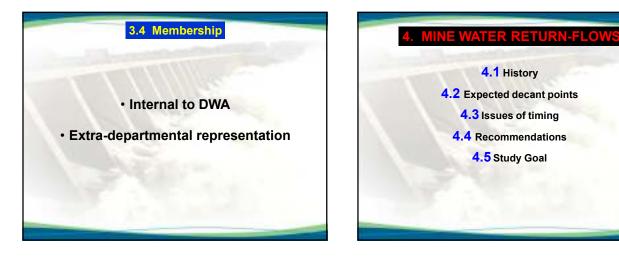






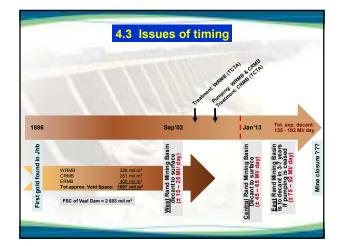


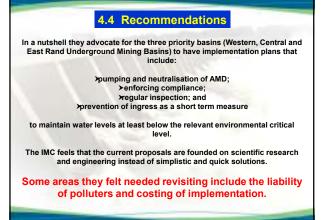


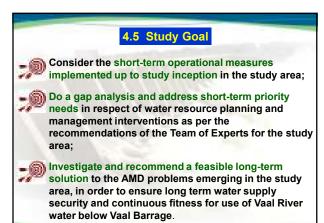














5.1 PROGRESS ON SELECTED ACTIONS

→ Waste Discharge Charge System → Waste Discharge Standards

- → Mine Water Management
- → General Authorizations
 - → Agriculture
- → Waste Water Treatment

5.2 STRATEGY MATRIX (1)

	and the second se			
	MANAGEMENT ACTION	RESPONSIBILITY	STATUS	
1. STRATEGY FOCUS AREA: SALINITY				
1.1.1	Planning Study: Coal Mining in the Upper Vaal WMA	WRPS:WQP	Busy	
1.1.2	Implementation of to-be-established "coal mining strategy"	Gauteng RO	No Strategy	
1.2.1	Implement the 600 mg/l dilution-rule	Gauteng RO	Ongoing	
1.2.2	Piloting of the WDCS	RPW	Busy	
1.2.3	WDCS roll-out	Regions	Awaiting WDCS	
1.3.1	Reconnaissance investigation to determine best use of return-flows	NWRP	Completed	
1.3.2	Treatment of AMD	WRPS:WQP	Busy	
1.4.1	Catchment Forums to accept RWQOs	Regions	Ongoing	
1.4.2	SDC to continue	Regions	Ongoing	
1.5	Implementation of monitoring programs	Regions & RQS	Ongoing	
1.6	Finalization and implementation of next augmentation options	OA	Busy	

5.2 STRATEGY MATRIX (2)				
	MANAGEMENT ACTION	RESPONSIBILITY	STATUS	
1.7.1	Calibration of WQT and integration with the WRPM for the Orange River	WRPS:WQP	Busy	
1.7.2	Construction and commissioning of AMD desalination facilities	OA	Not yet initiated	
	2. STRATEGY FOCUS AREA: NUTRIENTS			
2.1	Implementation of Waterval CMS	Gauteng RO	Busy	
2.2	Flow manipulation Study to control algal blooms	WRPS:WQP	ToR was no approved (2010-02-10	
2.3	SDC to continue	Regions	Ongoing	
2.4.1	Id of WWTWs that don't comply to licence conditions	Regions	Ongoing	
2.4.2	Retrofitting & upgrading of WWTWs	Local Government	Ongoing	
2.5.1	Nutrient modeling and the establishment of a Thematic Strategy	WRPS:WQP	Funding not approv	
2.5.2	Study to assess the feasibility of installing further phosphorus removal treatment steps at selected works	WRPS:WQP	Not yet	

5.2 STRATEGY MATRIX (3)				
	MANAGEMENT ACTION	RESPONSIBILITY	STATUS	
2.6	A perspective is needed on the extent and costs of the measures needed (such as banning phosphorus containing detergents) to reduce the phosphorus loads received at the wastewater treatment works.	WRPS:WQP	Not yet initiated	
	3. STRATEGY FOCUS AREA: MICROBIOLOGY			
3.1	The actions are similar to the nutrient strategy	Regions	Ongoing	
	4. STRATEGY FOCUS AREA: INSTITUTIONAL			
4.1	Institutional alignment	Regions	Ongoing	
4.2	Consideration of the role of catchment committees/ organizations and the extent to which they can take responsibility and accountability for specifications.	Regions	Ongoing	
4.3	The role of local government is critical to the success of this strategy. This relates primarily to the management of the discharges of wastewater treatment works. A specific agreement or institutional arrangement has to be entered into between the Department and local government regarding this issue.	Local Government	Ongoing	
4.4	Strategy Steering Committee	NWRP	Ongoing	

	MANAGEMENT ACTION	RESPONSIBILITY	STATUS
	5. STRATEGY FOCUS AREA: CROSS-CUTTING		
5.1	Further Catchment Studies: Sub-catchments need to be prioritized for catchment studies to determine Level 3 RWQOs in support of the Level 1 and 2 RWQOs.	Regions	Ongoing
5.2	Management integration: Sub-catchments need to be prioritized and modeled to integrate end-of-pipe requirements with the determined RWQOs.	WRPS:WQP	Not yet initiated
5.3	Compliance Monitoring and Enforcement strategy	CME	Not yet initiated

6. CONCLUSION

 Reasonable progress had been made with some studies that had been initiated to address facets of the Vaal River IWQM Strategy;

- However, limited capacity hampers swift progress;
- Maintenance and improvement of resource quality remains the ultimate goal;

 The establishment of the VWQIC should assist, and provide more impetus and momentum to WQM efforts in the Vaal River Basin.

