

# Business Case for the Breede-Olifants Catchment Management Agency

---



January 2021

## Contents

Tables .....	<b>Error! Bookmark not defined.</b>
1 Introduction .....	6
2 Description of Breede-Olifants Water Management Area .....	7
2.1 Location .....	7
2.2 Topography.....	9
2.3 Climate .....	10
2.3.1 Rainfall.....	10
2.4 Socio-Economic Dynamics .....	10
2.4.1 Population.....	10
2.4.2 Economic Activity.....	10
2.4.3 Labour .....	11
2.5 Water Availability and Requirements.....	11
2.5.1 Availability.....	11
2.5.2 Current Requirements.....	12
2.5.3 Water Requirements vs. Availability .....	15
2.6 Key Water Challenges .....	16
2.6.1 Reallocation of water .....	16
2.6.2 Water Quality .....	16
2.6.3 Declining Ecosystems.....	17
2.6.4 Stressed Water Resources .....	17
2.6.5 Costly Infrastructure.....	17
2.6.6 Alien vegetation .....	18
2.6.7 Protection of estuaries .....	18
3 Strategic motivation.....	18
3.1 Water as a finite resource. ....	18
3.1.1 Integrated water resource management in the South African context .....	19
3.1.2 Management according to hydrological boundaries .....	19
3.1.3 Principle of subsidiarity .....	19
3.1.4 Developmental / empowerment role.....	19
3.1.5 Financial viability of the CMA .....	20
3.2 Framework for CMA Establishment.....	20
3.2.1 Principles .....	20
3.2.2 Legal basis .....	21
3.3 Evolution of the CMA .....	21
3.3.1 Status of CMAs in the Breede-Olifants Water Management Area .....	23
4 Corporate Form.....	23
4.1 Legal nature of CMA .....	23

---

4.2	A case for devolution .....	24
4.2.1	Stakeholder participation .....	24
4.2.2	Ring-fencing risk .....	24
4.2.3	Access to professional, specialist skills .....	25
4.2.4	Public confidence in decision-making .....	25
4.3	Appropriate corporate form .....	25
4.3.1	Departmental programme or dedicated business unit .....	25
4.3.2	Public Entity vs. Business Enterprise .....	25
4.3.3	Associated Attributes of the Public Entity .....	26
5	Legal process .....	28
5.1	Introduction .....	28
5.2	Legal requirements .....	28
6	Functions of CMA .....	28
6.1	Introduction .....	29
6.2	Delegation vs. assignment .....	29
6.3	Delegation of functions .....	29
6.3.1	Develop Policy & Strategy .....	30
6.3.2	Regulate Water Use .....	30
6.3.3	Establish, Support and Regulate Institutions .....	31
6.3.4	Monitoring and planning .....	31
6.3.5	Infrastructure .....	31
6.4	Transfer of functions to the Breede-Olifants CMA .....	32
6.4.1	Developing relationships and legitimacy .....	32
6.4.2	Build capacity and consolidate .....	32
6.4.3	Fully functional and responsible authority .....	33
6.5	Considerations for the delegation process .....	34
6.5.1	Outsourcing or development a technical support pool .....	34
6.6	Implications for DWS structure and functions .....	34
7	Organisational arrangements .....	35
7.1	Proposed functional structure of the Breede-Olifants CMA .....	35
7.1.1	Water resource management .....	36
7.1.2	Institutional and Stakeholder Coordination .....	37
7.1.3	Data Management .....	37
7.1.4	Corporate Services, Finance and Support .....	38
8	Organisational requirements .....	38
8.1	Staffing requirements .....	41
8.1.1	Strategic Support - Office of the CEO .....	41
8.1.2	Water Resource Management .....	41

---

8.1.2.1	Water Resources Planning.....	41
8.1.2.2	Water Use Regulation .....	41
8.1.2.3	Institutional and Stakeholder Coordination.....	41
8.1.2.4	Data Management .....	42
8.2	Finance and Administration .....	42
8.3	Human Resources .....	42
8.3.1	Organisational Development.....	42
8.3.2	Transfer of staff.....	42
8.3.3	Grading and remuneration .....	42
8.3.4	Board remuneration .....	43
8.3.5	Remunerating of staff.....	43
8.3.6	Performance management.....	43
8.3.7	Organisational systems and policies .....	44
8.3.8	Organisational policies .....	44
9	Financial Arrangements.....	44
9.1	Sources of Finance .....	44
9.1.1	Water Use Charges and the Pricing Strategy .....	45
9.1.2	Financial support .....	46
9.2	Flow of capital.....	46
9.3	Financial systems arrangements.....	47
9.4	Financial analysis .....	48
9.4.1	CMA Expenditure.....	48
9.4.2	Projected revenue.....	49
9.4.3	Financial support to the CMA.....	50
9.4.4	Asset transfers.....	51
10	Institutional and governance arrangements .....	51
10.1	Corporate Governance Principles.....	51
10.2	CMA Governing Board .....	52
10.2.1	Role of the CMA Board .....	52
10.3	Board membership .....	52
10.4	Process for appointment of board.....	53
10.5	Governance Committee Structures.....	54
10.5.1	Finance and Audit & Risk Committee .....	54
10.5.2	HR and Remuneration Committee.....	54
10.5.3	Technical Committee.....	55
10.6	Appointment of CEO .....	55
11	Mechanisms for Regulation and Oversight .....	55
11.1	CMA Business Planning .....	55

11.2	Financial Control .....	56
12	Change management.....	56
12.1	Internal change management.....	56
12.2	Rebranding and stakeholder engagement strategy .....	57
13	Risk.....	58
13.1	Implementation Risks .....	58
13.1.1	Complexity of the project.....	58
13.1.2	Spheres of Government .....	58
13.1.3	Stakeholder acceptability.....	58
13.1.4	Delegation of powers and functions.....	59
13.1.5	Financial management .....	59
13.1.6	Climate change and natural disasters.....	59
13.1.7	Human Resources.....	59
13.1.8	Organisational Technologies .....	59
13.2	Risk management .....	60
14	Annexure A .....	61

---

## List of Figures and Tables

---

Figure 2.1	Map of Breede-Olifants WMA
Table 2.2	Water Availability
Table 2.3	Water Requirements
Table 2.4	Yield Balance
Table 7.1	Breede-Olifants CMA Functional Structure
Table 9.4.1	Budget of the Breede-Olifants CMA
Table 9.4.2	Projected Revenue
Table 9.4.3	Water Use Charges 2021/22

## **1 Introduction**

The National Water Act (1998) mandates the Minister of Human Settlements, Water and Sanitation to establish catchment management agencies (CMAs) for the management of water resources at the catchment level.

In the Western Cape, the Breede-Gouritz CMA was established, Government Gazette Number 37677 of 23 May 2014, to manage the water resources in this amalgamated water management area.

Since the establishment of these CMAs, the Department of Water and Sanitation (DWS) has reviewed the appropriateness of having 9 CMAs across the country, and has proposed a reduction in the number of water management areas, and by implication the number of CMAs to six. In this reduction, new boundaries for the nine water management areas will be demarcated through the National Water Resources Strategy (NWRS3) as is required under the National Water Act.

In October 2020, Minister of Human Settlements, Water and Sanitation requested public comment for the amendment of the Breede-Gouritz Water Management Area (WMA) through extending the boundary and area of operation to include the Berg-Olifants WMA in terms of section 78(4) of the National Water Act, 1998 (Act no. 36 of 1998), and name of the Breede-Gouritz CMA be changed the Breede-Olifants CMA.

This document sets out the Business Case for the establishment of the Breede-Olifants Catchment Management Agency. The Business Case has been developed to facilitate approval by National Treasury for approval of the new public entity and it also sets out the processes to be followed by the Minister to achieve the required changes.

The report is structured as follows:

- Section 2 provides a description of the new water management area and the key water resource management challenges in the WMA;
- Section 3 deals with the strategic motivation for the establishment of CMAs, while section 4 deals with the appropriate corporate form for CMAs;
- Section 5 deals with the legal process to be followed to achieve the necessary changes;
- Section 6 deals with the functions to be performed by the CMA while section 7 addresses the organisational requirements to perform these functions;
- Section 8 deals with the financial issues of viability and cost comparison;
- Section 9 deals with institutional and governance issues;
- Section 10 deals with regulation and oversight issues;
- Section 11 deals with the need for change management to ensure a smooth and effective transition;
- Section 12 deals with risk and
- Section 13 deals with implementation considerations and actions.

## 2 Description of Breede-Olifants Water Management Area

### 2.1 Location

The Breede-Olifants water management area (WMA) is the result of the amalgamation of the Breede-Gouritz WMA and the Berg-Olifants WMA. The new WMA will be bounded by the Atlantic Ocean to the southwest, the Orange WMA to the north and the Mzimvubu-Tsitsikama WMA to the East. It will largely fall within the Western Cape Province, with small portions of the upper catchment of the Olifants River falling in the Eastern Cape Province, and portions of the Northern section falling within the Northern Cape Province.



Figure 2.1 Breede-Olifants WMA Map

There are four large rivers within the WMA, the Breede, Berg, Gouritz and Olifants Rivers. The Olifants River is highly impacted by abstraction for irrigation in the upper reaches. A Preliminary Comprehensive Reserve has been determined for the Olifants River with the recommendation that it is impractical to try and restore the river to a more natural system, and that water should not be taken back from existing lawful users for this purpose, due to the negative impact this will have on the area's economy. The protection of the Doring River is aimed at securing the ecological integrity of the lower reaches and estuary of the Olifants River, the latter being a major permanently open estuary and fish breeding area.

The Table Mountain Group (TMG) Aquifer holds significant potential and has been investigated and developed by the Overstrand Municipality, the Koo WUA and potential by Oudtshoorn as an option to augment their existing sources of bulk supply. The TMG aquifer situated within the Hottentots-Holland, Franschoek and Du Toit's mountain ranges are also being evaluated to augment the bulk supply for the Western Cape Water Supply System (Greater Cape Town).

In the Little Karoo poor quality brackish groundwater (generally unfit for human consumption but supportive of livestock) is associated with Bokkeveld and Cretaceous (Uitenhage Group) aquifers, whilst the quality of water in the primary alluvial aquifers is variable. The regional flow regime, storage capacity, recharge and discharge patterns of the Peninsula and Skurweberg (Nardouw) aquifers in a north-south corridor between the Outeniqua and Swartberg ranges, centred around the town of Oudtshoorn in the Olifants River valley are being evaluated. In the Great Karoo, around the towns of Prince Albert and Beaufort West, the exploration and potential extraction of deep lain earth gasses through a process of fracking are investigated.

The 30 local municipalities that fall within the Breede-Olifants WMA are as follows:

**1 Metropolitan Municipality – City of Cape Town**

<b>5 District Municipalities</b>	<b>24 Local Municipalities</b>
Cape Winelands	<ul style="list-style-type: none"> <li>• Breede Valley</li> <li>• Drakenstein</li> <li>• Langeberg</li> <li>• Stellenbosch</li> <li>• Witzenberg</li> </ul>
Central Karoo	<ul style="list-style-type: none"> <li>• Beaufort West</li> <li>• Laingsburg</li> <li>• Prince Albert</li> </ul>
Garden Route	<ul style="list-style-type: none"> <li>• Bitou</li> <li>• George</li> <li>• Hessequa</li> <li>• Kannaland</li> <li>• Knysna</li> <li>• Mosselbay</li> <li>• Oudtshoorn</li> </ul>
Overberg	<ul style="list-style-type: none"> <li>• Cape Agulhas</li> <li>• Overstrand</li> <li>• Swellendam</li> <li>• Theewaterskloof</li> </ul>
West Coast	<ul style="list-style-type: none"> <li>• Bergriver</li> <li>• Cederberg</li> <li>• Matzikama</li> <li>• Saldanabay</li> </ul>



---

	• Swartland
--	-------------

## 2.2 Topography

The variation in topography results in a climate which varies considerably within the region. The water resources of the Breede-Olifants WMA occur in four distinctly different zones:

### **Gouritz area:**

This area is characterised by the flat open plains of the Great and Klein (Little) Karoo, interrupted by steep mountain ranges orientated in an east-west direction which give it three distinct zones of the semi-arid Great Karoo, the Olifants River and the Coastal Belt.

### **Breede area:**

This area is characterised by the rolling hills of the Overberg, the Hex River Mountains to the north, the Langeberg Mountains in the east and the Franschoek and Du Toit's Mountains in the west, which flank the wide Breede River valley.

### **Berg area:**

The Berg area is topographical influenced by the high mountain ranges in the Cape Peninsula and on the eastern side of the area, introduces a large spatial variability in the mean annual precipitation (MAP). Intensive irrigation takes place in the Upper and Lower Berg River valleys, its tributaries and from private dams, as well as in the Eastern region of the Greater Cape Town subarea (along the Eerste and Lourens Rivers), with small pockets of irrigated land mainly for vegetable crops on the Cape Flats. Dry land cultivation of wheat is dominant in both the Upper Berg and Lower Berg sub-areas (including the Diep River), with some dry land vineyards and olive orchards on the hills.

### **Olifants area:**

The topography of the Olifants area is of three distinct types, namely rolling hills and sand dunes in the west along the coastal strip, rugged mountains with peaks rising to about 2 000 m above sea level in the southern area, and plains and rocky hills in the north-eastern area that are typical of the Western Karoo.

The Olifants River rises in the mountains in the south-east of the area and flows north-west. Its deep narrow valley widens and flattens downstream of Clanwilliam until the river flows through a wide floodplain downstream of Klawer. The Doring River is a fan shaped catchment. The main river rises in the south and flows in a northerly direction. It is first joined by the Groot River and then by the Tra-Tra River flowing from the west and the Tankwa River from the east, before flowing in a westerly direction to its confluence with the Olifants River just upstream of Klawer.

The north of the area is flatter and much of the basin lies between 500 and 900 m above sea level. In the east there are significant mountain ranges, the Hantam near Calvinia and the Roggeveld to the south, which rise to about 1 500 m above sea level. West of Nieuwoudtsville lies the Bokkeveld Mountains escarpment where the plateau elevation of about 700 m drops to about 300 m. The rolling hills and plains of the 30 to 40 km wide strip

along the coast from the southern boundary of the WMA to the estuary of the Olifants River are known as the Sandveld. The deep sandy deposits overlaying the bedrock in this area are "primary" aquifers which provide a significant ground water resource.

## **2.3 Climate**

### **2.3.1 Rainfall**

The Breede-Olifants WMA has widely varying precipitation levels. The precipitation ranges from 160mm in the northern, more inland parts of the WMA to more than 3 000mm in the high mountainous regions.

The Great Karoo and Olifants River catchment regions are classified as a very late summer rainfall region, with a large proportion of annual precipitation falling between March and May and October through storm events, whereas most of the rain in the Breede, Olifants and Berg areas fall between the months of May and September.

## **2.4 Socio-Economic Dynamics**

### **2.4.1 Population**

The total population of the Breede-Olifants WMA is estimated at 7 262 734. The majority of the population resides in the areas where the most economic activity occurs, which is in the urban centres and major coastal towns within the WMA. It is estimated that 95% of the total WMA population resides in urban areas, with 89% concentrated in the Greater Cape Town sub-area, where they are attracted by employment opportunities. Future population trends are likely to be influenced by economic opportunities and job creation. Projections therefore are for continued relatively strong population growth in the urban areas and a decline in rural population, attributable to the lack of economic stimulus in small towns and villages, but for the seasonal migration in harvesting time for major fruit producing agri-industry. Other factors influencing the population dynamics is the general trend towards urbanisation in the country and the impacts of HIV/AIDS. Little change is, however, expected in the overall population of the water management area.

### **2.4.2 Economic Activity**

The Gross Geographic Product (GGP) of the Breede-Olifants Water Management Areas is estimated at around R520 billion per annum and makes up 13% of South Africa's Gross Domestic Product (GDP). The economy of the area is dependent on export fruit, PetroSA, uranium mining, renewable energy, ostrich farming and tourism.

The largest sector in the Breede, Olifants and Gouritz areas are the agriculture and processing sector which contributes 23.2% to the GGP. The region is quite significantly dependant on the agricultural economy which provides 58% of jobs to the rural poor. Once the associated manufacturing, construction and services are considered, an even larger proportion of the economy appears to be dependent on the agricultural sector. Trade and

accommodation are the second largest sector of the economy in these areas, related to coastal residential retirement and tourism.

A strong and diversified economy exists in the Berg area, which is dominated by the commercial trade and industrial activities in the Cape Town Metropolitan area, the towns of Stellenbosch, Paarl and Wellington and in the developing West Coast area of Saldanha Bay. Agriculture, although one of the smallest sectors in terms of its contribution to the Gross Geographical Product ( $\pm 2,5\%$ ), has strong linkages to other sectors of the regional economy and provides livelihood to a large proportion of the rural population.

The economy of the Breede-Olifants WMA is closely dependent upon the availability and health of water resources in the water management area because of its heavy dependence on agriculture, petroleum production (including by-products), inter-basin transfers of bulk water resources to Western Cape Water Supply System and tourism. Irrigated agriculture, wheat cultivation and associated activities such as processing and packaging are the primary economic activities in the Breede-Olifants WMA. As a reflection of this, growth in the agricultural, forestry, and fisheries in the Western Cape economy was 2.7% per year and the residential-tourism economy has grown at a brisker 3.4% per year over the decade leading up to December 2010.

### **2.4.3 Labour**

Of the total labour force, 64.2% is formally employed and 18.9% are considered informally employed. The 16.8% unemployment rate that is prevalent in the Breede-Olifants WMA is lower than the national average unemployment rate which is currently measured at 25%. Of those who are in formal employment, 28.2% work in the agricultural sector.

The West Coast District Municipality regional economy's competitive strengths reside in its agro-processing, tourism and building and construction value chains. The development of the Saldanha IDZ and other infrastructure projects (e.g. the Clanwilliam Dam Raising) will boost growth. The CWDM's economy has firm agricultural origins, the importance of which continues today and is reflected in the fact that one fifth of the region's work force is employed in this sector.

There is a great need to employ, train, retrain and up-skill workers as the agricultural, manufacturing and construction sectors have shed semi and unskilled labour on a large scale, not fully compensated for by the net job creation in the skills-intensive services industries. These growth patterns lead to distorted socio-economic outcomes.

## **2.5 Water Availability and Requirements**

### **2.5.1 Availability**

The water availability estimates for the Breede-Olifants WMA component, at a 98% assurance (1:50 Year Yield) of supply is shown in **Error! Reference source not found.2**

Region	Yield (1:50 Year)									
	Natural Resources		Useable Flows		Return	Impact on Yield				
	Surface Water	Ground Water	Irrigation	Urban	Bulk Industry	Desktop Reserve estimate	Invasive Alien Plants	Total Local Yield	Net Transfers In	Grand Total
<b>Gouritz</b>	263	64	7	11	6	40	36	275	0	<b>275</b>
<b>Breede</b>	873	107	110			23	78	989	18	<b>1007</b>
<b>Berg</b>	425	57	8	37		23	0	482	194	<b>676</b>
<b>Olifants</b>	257	62	15	2	0	189	9	336	3	<b>339</b>
<b>Breede - Olifants</b>	<b>1818</b>	<b>290</b>	<b>140</b>	<b>50</b>	<b>6</b>	<b>275</b>	<b>123</b>	<b>2082</b>	<b>215</b>	<b>2297</b>

Table 2.2: Breede Olifants Water Availability (million m<sup>3</sup> per annum) (figures taken from ISPs)

The figures in **Error! Reference source not found.** are estimates based on fairly accurate data that has been collected. However, there are some uncertainties that affect these estimates. These include:

- The fact that the riverine and estuarine reserve estimates are desktop estimates that are preliminary in nature,
- Rain gauging in the high rainfall regions is not adequate which impacts on the reliability of hydrology, and
- The impact of climate change on rainfall patterns and their influence on the estimates of water availability is yet unknown and will need to be considered in future.

## 2.5.2 Current Requirements

Irrigation is by far the dominant water use sector in the water management area, representing around 85% of the local requirements for water. Urban and rural water use make up 9.4% and 2.3% respectively, while water use for afforestation makes up 2.2% of total local requirements. A summary of the sectoral water requirements in each of the sub-areas is given in

<b>Koue Bokkeveld</b>	65	0	1	0	0	<b>66</b>	0	<b>66</b>
<b>Doring</b>	13	1	1	0	0	<b>15</b>	0	<b>15</b>
<b>Knersvlakte</b>	3	0	1	3	0	<b>7</b>	0	<b>7</b>

<b>Lower Olifants</b>	140	3	1	0	0	<b>144</b>	4	<b>148</b>
<b>Sandveld</b>	35	2	1	0	0	<b>38</b>	0	<b>38</b>
<b>Greater Cape Town</b>	46	343	5	0	0	<b>394</b>	0	<b>394</b>
<b>Upper Berg</b>	202	23	4	0	0	<b>229</b>	125	<b>354</b>
<b>Lower Berg</b>	53	23	5	0	0	<b>81</b>	0	<b>81</b>
<b>Total Requirements</b>	<b>1633</b>	<b>484</b>	<b>42</b>	<b>9</b>	<b>22</b>	<b>2190</b>	<b>437</b>	<b>2627</b>

Table 2.3.

In

<b>Koue Bokkeveld</b>	65	0	1	0	0	<b>66</b>	0	<b>66</b>
<b>Doring</b>	13	1	1	0	0	<b>15</b>	0	<b>15</b>
<b>Knersvlakte</b>	3	0	1	3	0	<b>7</b>	0	<b>7</b>
<b>Lower Olifants</b>	140	3	1	0	0	<b>144</b>	4	<b>148</b>
<b>Sandveld</b>	35	2	1	0	0	<b>38</b>	0	<b>38</b>
<b>Greater Cape Town</b>	46	343	5	0	0	<b>394</b>	0	<b>394</b>
<b>Upper Berg</b>	202	23	4	0	0	<b>229</b>	125	<b>354</b>
<b>Lower Berg</b>	53	23	5	0	0	<b>81</b>	0	<b>81</b>
<b>Total Requirements</b>	<b>1633</b>	<b>484</b>	<b>42</b>	<b>9</b>	<b>22</b>	<b>2190</b>	<b>437</b>	<b>2627</b>

Table 2.3, urban and rural water use includes the component of the reserve for basic human needs, water use for mining and bulk industrial includes mining and bulk industrial water uses which are not part of urban systems, and the quantities given for afforestation refer to impact on yield only.

**Water Requirements (million m<sup>3</sup>/annum)**

<b>Sub-area</b>	<b>Irriga- tion</b>	<b>Urban</b>	<b>Rural</b>	<b>Bulk Indus- try</b>	<b>Affore- station</b>	<b>Total Local Requir- ements</b>	<b>Trans- fers Out</b>	<b>Grand Total</b>
<b>Upper Breede</b>	495	23	4	0	0	<b>522</b>	22	<b>544</b>
<b>Rivierson- derend</b>	91	2	2	0	1	<b>96</b>	168	<b>264</b>
<b>Lower Breede</b>	72	1	1	0	0	<b>74</b>	0	<b>74</b>
<b>Overberg East</b>	0	2	2	0	0	<b>4</b>	0	<b>4</b>
<b>Overberg West</b>	64	8	2	0	5	<b>79</b>	23	<b>102</b>
<b>Gamka</b>	49	5	1	0	0	<b>55</b>	0	<b>55</b>
<b>Touws / Buffels / Groot</b>	49	2	2	0	0	<b>53</b>	0	<b>53</b>
<b>Olifants</b>	62	10	2	0	0	<b>74</b>	0	<b>74</b>
<b>Gouritz / Goukou</b>	51	3	3	0	1	<b>58</b>	1	<b>59</b>
<b>Coastal</b>	43	32	3	6	14	<b>98</b>	0	<b>98</b>
<b>Upper Olifants</b>	100	1	1	0	1	<b>103</b>	94	<b>197</b>
<b>Koue Bokkeveld</b>	65	0	1	0	0	<b>66</b>	0	<b>66</b>
<b>Doring</b>	13	1	1	0	0	<b>15</b>	0	<b>15</b>
<b>Knersvlak te</b>	3	0	1	3	0	<b>7</b>	0	<b>7</b>
<b>Lower Olifants</b>	140	3	1	0	0	<b>144</b>	4	<b>148</b>
<b>Sandveld</b>	35	2	1	0	0	<b>38</b>	0	<b>38</b>
<b>Greater Cape Town</b>	46	343	5	0	0	<b>394</b>	0	<b>394</b>
<b>Upper Berg</b>	202	23	4	0	0	<b>229</b>	125	<b>354</b>
<b>Lower Berg</b>	53	23	5	0	0	<b>81</b>	0	<b>81</b>

<b>Total Requirements</b>	<b>1633</b>	<b>484</b>	<b>42</b>	<b>9</b>	<b>22</b>	<b>2190</b>	<b>437</b>	<b>2627</b>
---------------------------	-------------	------------	-----------	----------	-----------	-------------	------------	-------------

Table 2.3: Water Requirements (million m<sup>3</sup>/annum) (DWS 2000)

A large proportion of the local water requirements are consumed in the Upper Breede sub-area (about 47%) which has 28% of the total population of the Breede and Gouritz WMA. The Coastal sub-area uses the second largest amount of water with about 9% of total local requirements being used in this sub-area.

Most of the water that is transferred out of the Breede area goes to the Berg area and specifically to the City of Cape Town (170 Mm<sup>3</sup>) where a large proportion of the urban population of the Western Cape resides, and to agriculture (50Mm<sup>3</sup>). Consideration of how much water will be directed to the city, depending on economic and population growth, from the Breede area will have to be given in future. This might have a significant impact on the water available for local use within the Breede area and all the economic activities that depend on water availability. Equally, meeting the environmental water requirements may impact on water availability in some sub-areas.

The current water requirement estimates are also marred by uncertainties. A lot of the uncertainty about water requirements arises from the fact that a significant proportion of the total current irrigation activity lies outside of government-controlled schemes and Water User Associations (WUAs), and figures for irrigation water use from different sources vary considerably.

There are also some future considerations that will impact water use:

- The irrigation water requirement estimates are based on water use registration and not on actual current water use – there are some unexercised allocations, but equally there appears to be an increase in water use by other farmers. The trends in water use will need to be better understood and monitored,
- The impact of climate change,
- The impact of changes in land use resulting from the transformation of the agriculture industry to better reflect the racial demographics of South Africa, and
- The impact of water conservation and demand management, particularly in the urban areas.

### **2.5.2.1 Saldanha Bay Economic Growth**

The South African government expects significant economic growth to come from infrastructure investment and creation of Industrial Development Zones (IDZs) where concentrated manufacturing and industrial processing facilities will increase local and national economic output and in return improve the social conditions of local communities. In the Western Cape, Saldanha Bay owing to its important natural assets (mineral and fish resources) as well as its infrastructural advantage of a deep-sea harbour has been identified and was proclaimed as an IDZ.

An analysis of planned economic developments (Including those in EIA stage) including those in the IDZ has revealed a possible future complex mixture of industries in the Saldanha Bay development scenario. These developments will increase pressure on various resources, including water for the region. Currently industrial activities consume approximately twice the volume of water as domestic use.

### 2.5.3 Water Requirements vs. Availability

The current yield balance within the Breede-Olifants WMA, given the water availability and water requirements estimates, is estimated a 99 million m<sup>3</sup>/annum deficit. The breakdown of the yield balance can be seen in **Error! Reference source not found.4**.

The Breede area has a yield surplus of 19 million m<sup>3</sup>/annum which can be used for reallocation to emerging farmers. Though not all this surplus water is available in government owned dams/schemes, DWS can endeavour to influence the owners into making any long-term surpluses available for use by resource poor farmers.

Description		WMA Sub-Areas				Total Breede-Olifants
		Breede	Gouritz	Berg	Olifants	
Available Water	Local Yield	989	275	482	336	2082
	Transfers In	18	0	194	3	215
	<b>Total</b>	<b>1007</b>	<b>275</b>	<b>676</b>	<b>339</b>	<b>2297</b>
Water requirements	Local Requirements	775	338	704	373	2190
	Transfers Out	213	1	0	0	214
	<b>Total</b>	<b>988</b>	<b>339</b>	<b>704</b>	<b>373</b>	<b>2404</b>
<b>Balance</b>		<b>19</b>	<b>-64</b>	<b>-28</b>	<b>-34</b>	<b>-99</b>

Table 2.4: Breede-Olifants Yield Balance (million m<sup>3</sup>/annum)

There are a number of interventions that can be put in place that could help increase the amount of water available for local use in the Breede-Olifants WMA. The additional water returned to the system as a result of these interventions can be used to better support resource poor farmers. The list of potential interventions includes the following:

- Verification of existing lawful use – once this is done some water could be returned to the system
- Water reallocation through compulsory licensing to meet the Reserve and/or equity requirements.
- Water conservation and demand management – it is estimated that savings of between 30% and 40% are available in the urban sector and water savings could be made in the agricultural sector if water conveyance and distribution systems were better maintained and upgraded



- Water reuse - the use of treated effluent from WWTWs offers potential for re-use, particularly in the larger towns. Exchange with nearby irrigation users is one option, as is the irrigation of local sports fields and parks
- Clearing of invasive alien plants could also save a lot of water – although it is unlikely that all invasive plants could be cleared, some success can be achieved in this regard that could free up some water for better and more productive use
- Improved management of groundwater resources
- Development of the groundwater resources, particularly those of the very deep confined Peninsula aquifer of the TMG. The TMG potential is currently being investigated by the CCT with the intention of developing a pilot well field.
- Aquifer Storage Recovery offers a zero-evaporation storage option by injecting surplus surface water (in times of surplus) into an aquifer for subsequent abstraction (in times of deficit).
- Improved management of the WCWSS, notably the releases from the Voëlvlei Dam to the Misverstand Weir.
- Development of new water resources – it has been estimated that there is in excess of 300 million m<sup>3</sup>/annum of additional groundwater that could theoretically be abstracted on an environmentally sustainable basis and between 90 and 140 million m<sup>3</sup>/a of additional surface water yield can be developed in an economically viable way. Further investigation is needed, however, on the feasibility of using the groundwater potential.
- Improved scheduling and measurement, compliance monitoring and regulation of abstraction of irrigation
- The use of improved salinity management techniques

## **2.6 Key Water Challenges**

### **2.6.1 Reallocation of water**

One of the key water challenges in the water management area is the need to reallocate water to redress historical imbalances in access to water for productive purposes and to address issues of inequality and poverty in the area. This challenge will need to be addressed through compulsory licencing and through voluntary actions by current water users in the area to surrender water for reallocation purposes.

### **2.6.2 Water Quality**

Due to naturally saline geology of and the diffuse return flows from the irrigated farmlands that wash-off fertilisers and leach natural salts in the area, surface water is affected by salinity. Elevated salinity occurs naturally over the inland catchments of the Great and Little Karoo as a result of the geology of the area and high evaporation rates. This is a historical situation and one to which the ecology and the farmers have adapted.

Point source pollution such as the discharge of inadequately treated wastewater effluent from wastewater treatment works (WWTWs), and irrigation with treated, partial and/or untreated winery, dairy farming, piggery, cheese production and other industrial effluent are

further concerns that have an impact of the water quality in the Breede-Olifants WMA. In the developed urban areas, particularly the more densely populated coastal towns, man-made interventions result in problems commonly associated with urban water use. These include discharge of water containing waste, WWTW not meeting their required water quality standards for discharge and point discharge through storm water and/or diffuse pollution from informal settlements.

### **2.6.3 Declining Ecosystems**

Over the past decade there has been a decline in ecosystem health in many parts of the main rivers in the Breede-Olifants WMA, indicated by comparative river health surveys in 1999 and 2010. The causes of this decline are varied and complex, being a combination of mechanical disturbance of these rivers, over-abstraction with on-farm storage, and in some cases water quality deterioration. The estuaries have also been under general pressure from development encroachment and reduced flows. The brackish water mixing zone in the Breede estuary for example has been shrinking over the past decade, which has profound implications for breeding of marine fish species.

The coastal catchments of the WMA are ecologically sensitive, which places a greater demand on leaving water in the system to maintain the aquatic ecology in that region.

### **2.6.4 Stressed Water Resources**

The current demands on the catchment are approaching and, in some cases, exceeding the average available water resources. This is exacerbated by being in a predominantly winter rainfall region, where the availability of water during winter storms does not coincide with the needs for summer irrigation and supply to the tourist influx to coastal towns. This significant seasonal variability implies that only about half of the total average annual stream flow can reliably be used. Abstraction during summer low flow periods already exceeds what is available in many of these catchments, while winter demand also exceeds what is available during drier years.

The WMA is in deficit (either through over registration and/or calculated crop water demand versus actual water used), which means that effective water conservation and demand management, and reconciliation actions are critical. The inland catchments of the WMA do not receive sufficient rainfall to sustain reliable supplies from surface water resources. As such there will be an increasing reliance placed on the groundwater resource throughout this WMA.

### **2.6.5 Costly Infrastructure**

Assured supply is provided by a number of publicly owned dams, as well as private farm dams, which in total can store a little over half the average annual streamflow in the system. Opportunities to expand this storage infrastructure have been proposed, particularly the raising some of the existing dams, the building of new larger schemes, or the construction of small on-farm off-channel impoundments. However, this additional water comes at a high

cost, because it requires storage of only larger winter floods for use in late summer and there are a limited number of feasible dam sites. These supply constraints, costs and the value of water are reflected in the range in the trading price for agricultural water.

### **2.6.6 Alien vegetation**

Invasive alien plants species are invading rivers and depleting groundwater resources. The removal of alien vegetation will assist in rehabilitation and protection of wetlands for ecological functioning and tourism appeal. Alien vegetation account for a reduction in yield of more than 31 million m<sup>3</sup>/a. Clearing could offer significant benefit towards meeting the requirements of the Reserve and augment the depleted summer low flows.

### **2.6.7 Protection of estuaries**

Functional estuaries are essential from both an environmental and a socio-economic perspective. There are a number of estuaries in the WMA which require protection in terms of sufficient water, proper water quality and public safety (health) management.

## **3 Strategic motivation**

The National Water Policy for South Africa and the National Water Act were developed based on extensive public participation and considerable international expertise and advice. This gave rise to the recommendation to follow international good practice in the decentralisation of water management, and the establishment of water management institutions based on hydrological rather than political boundaries. In the development of the National Water Resources Strategy (2004), a process which included extensive public participation, 19 water management areas were defined for the country, in each of which, it was envisaged, a Catchment Management Agency (CMA) would be established.

To date, there are two functional CMAs, one in the Inkomati-Usuthu Water Management Area, and one in the Breede-Overberg-Gouritz WMA. Further development of CMAs was halted as the Department reconsidered the appropriateness of establishing nineteen CMAs and the possibility of redefining the water management area boundaries in order to create a smaller number of CMAs each with a larger area of jurisdiction. A smaller number of CMAs was seen as enabling better economies of scale with regard to utilising scarce technical skills and reducing the regulatory and oversight requirements on the Minister and Department. The current decision of DWS is to establish six (6) CMAs that cover the whole country.

As has been mentioned in the introduction, the intention is to amend the boundaries and name of the Breede-Gouritz CMA to meet the new requirements for 6 CMAs. The following sections set out some of the reasoning behind the need to establish a CMA to manage water resources in the Breede-Olifants water management area.

### **3.1 Water as a finite resource.**

South Africa is a water scarce country, with less than 1700 m<sup>3</sup> per capita water available per annum. Even in areas where water is relatively bountiful, there is serious inequity in distribution and availability. Some of the particular challenges facing water management in the Breede-Olifants water management area have been highlighted in the previous section.

### **3.1.1 Integrated Water Resource Management in the South African context**

Integrated Water Resource Management (IWRM) has been internationally recognised as the most appropriate paradigm for managing water. The principles of IWRM are enshrined in the White Paper on a National Water Policy of 1997 and the National Water Act of 1998. Some of these aspects are highlighted below.

### **3.1.2 Management according to hydrological boundaries**

Water is best managed in an integrated manner, taking cognisance of the linkages between land and water, between groundwater and surface water, and between the social and natural environment. Water is most easily managed within the natural boundaries of catchments (within which water drains into one river system) allowing for integrated management of that system. The establishment of a CMA allows for the management of scarce water resources according to hydrological rather than political boundaries, as is best practice internationally.

The National Water Policy also recognises the protection of aquatic ecosystems as critical to ensuring sustainable delivery of resource-related goods and services. Management of water resources according to hydrological boundaries will enable more effective and integrated protection of river systems.

### **3.1.3 Principle of subsidiarity**

As a social and economic good, water is critical to peoples' lives and livelihoods. Accordingly, to ensure equity and sustainability water resource management must be based on the principle of subsidiarity (i.e. taking decisions at the lowest appropriate level) such that all relevant stakeholder groups are actively involved in the decision-making process. This is also important in the effective functioning of a democratic developmental state.

### **3.1.4 Developmental / empowerment role**

International best practice shows that decentralised institutions often have a greater developmental and empowerment role than centralized institutions. Decentralised institutions have a greater ability to respond to developmental needs and opportunities on the ground as a result of reduced bureaucracy and smaller, more effective organizations. Additionally, by involving stakeholders in the decision-making process and the management of the resource, decentralized water resource management will contribute significantly to the redress of historical inequities and support the equitable allocation and effective management of this limited resource.

Part of the empowerment deliverable should include the education of society/communities in both the rights and responsibilities commensurate with water usage and protection. This will require extensive institutional capacity and a structured plan and approach to where and how the responsibilities are established.

### **3.1.5 Financial viability of the CMA**

This issue will be discussed in much greater detail later in this document, but effective water resources management is premised on efficient and effective institutions with the appropriate resources to deliver. The financial viability of institutions is crucial to ensure adequate resources in the delivery and sustainability of these functions over the longer term. Ensuring financial viability and good governance requires strong financial systems and controls, linked to the requirements of the Public Finance Management Act (Act 1 of 1999) and Treasury Regulations, amongst others.

## **3.2 Framework for CMA Establishment**

### **3.2.1 Principles**

Reform of the South African public service following the new dispensation to i) service delivery and adoption of the principles of Batho Pele and ii) transformation of the public sector to ensure employment equity and redress of historical inequality, informs an institutional, organisational and cultural transformation from the way in which water resources were managed in the past. Chapter 1 of the National Water Act (Act 36 of 1998) sets out *equity, sustainability, efficiency and representivity* as guiding principles in the protection, use, development, conservation, management and control of water resources in South Africa, as captured in the slogan of the White Paper<sup>1</sup>: “*some, for all, forever*”.

This implies a shift in water resource management to an approach based on *integrated water resource management (IWRM), stakeholder involvement/ participation* in decision-making (empowerment of citizens), and *cooperative governance*. Moreover, institutional change is indicated; water management institutions must develop a *service delivery orientation*, which must reflect a *customer approach* to the business of water resources management.

These principles of institutional reform, sustainability and equality, in conjunction with the philosophy of *social and economic development* and *poverty eradication*, are reflected in the National Water Act (NWA) as a process of decentralisation and subsidiarity. This implies an organisational and institutional change process within the Department of Water Affairs (DWS), resulting in the formation of catchment-based water management institutions. Associated with, and inherent to, this process is the significant transfer of roles, responsibilities and functions from central government (DWS) to the Catchment Management Agencies (CMAs) as catchment-based organs of state.

---

<sup>1</sup> DWA. 1997. *White Paper on a National Water Policy for South Africa*. Department of Water Affairs and Forestry, Pretoria, South Africa.

### 3.2.2 Legal basis

Chapter 7 of the National Water Act makes provision for the progressive establishment of CMAs and states the *purpose* of the CMA is to delegate Water Resource Management to the regional or catchment level and to involve local communities in the decision-making processes. The intention is for water resource management to:-

- meet the basic human needs of present and future generations,
- promote equitable access to water,
- redress the results of past racial and gender discrimination, and
- facilitate social and economic development.

Broadly, the initial role of a CMA is articulated in the Act as:

- i) managing water resources in a WMA,
- ii) co-ordinating the functions of other institutions involved in water related matters and
- iii) involving local communities in water resource management.

The Act requires the progressive development of a national water resource strategy<sup>2</sup> (NWRS) that provides the framework for water resource management for the country as a whole and guides the establishment of CMA institutions to manage water resources at a regional or catchment scale<sup>3</sup> in defined Water Management Areas<sup>4</sup> (WMA). In addition, the Act requires for the progressive development of a catchment management strategy (CMS) for each WMA by each CMA. This CMS must be in harmony with the NWRS<sup>5</sup>. Both the NWRS and CMS must engage stakeholders and ensure participation<sup>6</sup>.

### 3.3 Evolution of the CMA

The principles guiding reform and transformation in resource management, and the legal requirements of decentralisation and subsidiarity contained with the NWA, imply a process of institutional change in the management of water resources. This process moves the responsibility for resource management from DWS to the CMA as the catchment-based organ of state. A number of stages can be identified that describe this process of shifting responsibilities and the evolution of the CMA.

The first stage following the *establishment of the CMA* is about creating **legitimacy** within the WMA, during which relationships are developed between the CMA, other water management institutions (WMIs) and stakeholders in the WMA. The CMA undertakes the critical role of advising on, and coordinating water resource management, and developing the catchment management strategy (CMS). This stage is about building relationships and establishing credibility and legitimacy within the WMA. The CMA assumes a number of initial functions, as defined in Section 80 of the NWA:

---

<sup>2</sup> Section 5(1) of the NWA

<sup>3</sup> Section 6(1)(j), (k) and (l) of the NWA

<sup>4</sup> Section 6(1)(c) of the NWA

<sup>5</sup> Section 9(b) of the NWA

<sup>6</sup> Section 5(5)(b) and (c) and Section 8(5)(b) and (c) of the NWA

- to investigate and advise interested persons on the protection, use, development, conservation, management and control of the water resources in its water management area;
- to develop a catchment management strategy;
- to co-ordinate the related activities of water users and of the water management institutions within its water management area;
- to promote the co-ordination of its implementation with the implementation of any applicable development plan established in terms of the Water Services Act, 1997 (Act No. 108 of 1997); and
- to promote community participation in the protection, use, development, conservation, management and control of the water resources in its water management area.

In order to perform these functions, the CMA has some inherent powers under the NWA:- i) the powers of a natural person of full capacity (Section 79(1)), ii) a range of powers related to planning and conducting the routine administrative and organisational business of the CMA (Schedule 4) and iii) powers to make and recover charges in terms of the Minister's pricing strategy for water use charges to cover their costs (Section 84(1)).

Following legitimisation of the CMA, a phase of **consolidation** is entered during which the CMA is focused on building capacity and strengthening the organisation to undertake its water resource management functions. This implies strengthening of systems within the organisation, including fiduciary management and governance of the CMA, and the establishment of stable information and implementation systems. Additional water use management functions are delegated to the CMA. DWS staff, possibly seconded to the CMA during the legitimisation phase, are now transferred to the CMA as a coherent business unit, with the requisite infrastructure and budget. The CMA (led by the Governing Board and CEO) compiles a comprehensive business plan. This must also link to the DWS timeframes for establishing water use charges (under the Pricing Strategy).

The final phase during the evolution of the CMA is the progression to a fully functional CMA and the delegation of **responsible authority** functions<sup>7</sup>. The majority of water resource management and implementation roles and responsibilities are now seated in the CMA, which assumes the role of Responsible Authority. The relationship between the CMA and DWS is well established, and the systems and processes within and between these institutions are stable. Under Section 73(1)(a) of the NWA, the Minister can assign the powers and duties of a responsible authority to a CMA. The most significant of these are the powers and duties related to authorisation of water use and the issuing, review and amendment of licences. In Section 63 of the NWA, there is a further provision for the delegation of powers and duties vested in the Minister<sup>8</sup>, rather than assignment. However,

---

<sup>7</sup> The powers and duties of a responsible authority are described as:- i) issue general authorisations and licences in respect of water use subject to conditions, ii) extend the licence period under certain conditions, iii) review licences at periods stated in the licence and make amendments to its conditions or renew it, iv) waive the need for a licence if the water use is authorised under another law, v) promote "one-stop shop" licensing, vi) require license applicants to provide security for licence obligations, vii) require registration of existing lawful water uses, viii) require an existing water user to apply to verify its water use, ix) undertake compulsory licensing where there is water stress, x) suspend or withdraw entitlements to use water and xi) enforce licence conditions.

<sup>8</sup> Some additional powers and duties may be delegated to the fully-functional CMA, as described in Schedule 3 of the NWA:- i) power to manage, monitor, conserve and protect water resources and to implement the CMS, ii) establishment of water-use rules, iii)

the Minister is prohibited from delegating certain powers under Section 63(2)<sup>9</sup>. In addition to providing the legal basis to the CMA performing its functions in its WMA, the NWA also allows the CMA to perform functions outside its WMA, under the condition that this does not impinge on the execution of its functions or detrimentally affect other water management institutions.

### **3.3.1 Status of CMAs in the Breede-Olifants Water Management Area**

In the Western Cape, the Breede-Gouritz CMA was established, Government Gazette Number 37677 of 23 May 2014, to manage the water resources in this amalgamated WMA.

In October 2020, Minister of Human Settlements, Water and Sanitation requested public comment for the amendment of the Breede-Gouritz WMA through extending the boundary and area of operation to include the Berg-Olifants WMA in terms of section 78(4) of the National Water Act, 1998 (Act no. 36 of 1998), and the name of the Breede-Gouritz CMA be changed to the Breede-Olifants CMA. The Breede-Gouritz CMA has been established as a schedule 3A Public Entity. The section below outlines the reasoning behind this decision and the recommendation that a similar corporate form be adopted for the Breede-Olifants CMA.

## **4 Corporate Form**

### **4.1 Legal nature of CMA**

The Policy Framework for the Governance and Administration of Public Sector Institutions (October 2005) sets out the following possible corporate forms for public institutions:

*Public Service including:*

- National Government Agencies
- Provincial Government Agencies

*Public Entities including:*

- Stewardship and Research Entities
- Service Delivery Entities
- Regulatory and Statutory Advisory Entities

*Government Enterprises including:*

- Statutory Corporations and Financial Intermediaries
- State Owned Companies
- Subsidiary Companies of public entities
- State Interest Companies

*Public Interest Institutions including:*

---

establishment of management systems, iv) require alterations to waterworks and may direct users to terminate illegal use and v) temporarily control, limit or prohibit the use of water during periods of water shortage.

<sup>9</sup> i) the power to make a regulation, ii) the power to authorise a water management institution to expropriate under Section 64(1) of the NWA, iii) the power to appoint a member of the Governing Board of a CMA and iv) the power to appoint a member of the Water Tribunal.



- Education, Welfare, Recreation Institutions and Professional Bodies

The appropriate corporate form must be informed by the purpose of the entity, and specifically by the risks, powers and functions of the CMA. A distinction should be drawn between delegation of functions between DWS and the CMA. Establishment of agencies such as CMAs is an integral part of strengthening and improving governance, by assigning responsibility and accountability to the institution best placed to ensure efficient use of resources and effective service delivery. It is appropriate only where there are good reasons for independent governance and control.

An added requirement is that once public sector institutions are legally established, the National Treasury, through the Accountant General, lists them in Part A, Schedule 3 of the PFMA to enable effective financial management and accountability.

The drivers for devolution and various corporate forms for the Breede-Olifants CMA were considered. These are discussed briefly below.

## **4.2 A case for devolution**

The National Treasury/DPSA Governance Framework highlights several reasons for devolution of government functions. A number of these reasons are relevant here:

### **4.2.1 Stakeholder participation**

As has been mentioned above, stakeholder participation in water resources management is required by South African policy and legislation, but also by international best practice. Participation of stakeholders is necessary to find appropriate and acceptable solutions to a number of the complex issues facing water managers in the Breede-Olifants water management area.

Both public confidence and stakeholder participation are mutually reinforcing objectives where one strengthens the other to create a synergistic relationship. Stakeholder participation will ensure that the needs for use of water resources are provided as best expressed by the stakeholders. Mechanisms put in place must promote ongoing and continuous engagement with stakeholders and between stakeholders, and particularly with historically disadvantaged communities.

### **4.2.2 Ring-fencing risk**

The establishment of a public entity allows for a coherent, integrated approach to managing risk through tight controls and good governance. One of the key risks that is best managed outside government is the financial risk associated with effective tariffing, billing and revenue collection. Since the CMA will be dependent on income from water use charges, there will be a much greater incentive for effective revenue management than is the case in the Department.

### **4.2.3 Access to professional, specialist skills**

Access to specialist skills is particularly important for the operational management of the CMA, including financial management, contract management, and specialist water resource management skills (hydrology, geohydrology, water quality, engineering, aquatic ecology, toxicology, etc). Accessing such skills will require moving outside government remuneration structures and developing the CMA as an employer of choice by creating an innovative, stimulating and conducive work environment.

### **4.2.4 Public confidence in decision-making**

The NWA recognizes that the ultimate aim of water resources management is to achieve the beneficial use of water in the public interest. In doing this it is important to build confidence amongst users that water as a resource is a public good and must be managed in such a manner that all must benefit.

Given the complexity of water management in the Breede-Olifants water management area, and the importance of this area to the economy, public confidence will be improved by demonstrating good governance through appropriate accountability and governance structures. Separation of functions will allow DWS to act as a regulator (visibly), particularly with regard to the regulation of tariffs, but also through setting of national norms and standards (e.g. for water quality).

## **4.3 Appropriate corporate form**

Based on the assessment above, various corporate forms were considered. These are discussed briefly below.

### **4.3.1 Departmental programme or dedicated business unit**

Based on the assessment of the rationale for the CMA, a programme within the Department or a departmental agency are not considered appropriate. A programme is limited in its ability to ring-fence risk and to manage relationships with stakeholders effectively and accountably. While a departmental agency can overcome some of these problems, it also presents challenges in terms of its legitimacy with stakeholders and other spheres of government, and a ring-fencing risk. Moreover, managing complex risk within a departmental agency is difficult, particularly as access to specialist skills in managing entity risk may be limited by departmental systems and process.

### **4.3.2 Public Entity vs. Business Enterprise**

The public entity corporate form is suitable for functions that require the involvement of stakeholders and experts to ensure effective and efficient delivery and where a moderate degree of autonomy in decision-making is desirable, or functions where it is necessary to assign decision-making to an independent juristic person in order to enhance public

confidence in the implementation of a policy framework or the provision of policy advice or research. A business enterprise, on the other hand, is primarily focused on the provision of goods and services in a market environment.

There are four key reasons why creation of a public entity is preferred for the CMA:

- The Breede-Gouritz CMA already exists in the water management area as an effective public entity on which to build the extended responsibilities of the amalgamated Breede-Olifants CMA
- The CMA is a service-delivery entity performing a function of government
- The CMA does not directly provide goods and services in a market environment but it is dependent on revenue from water users for the delivery of the services
- The CMA needs to involve stakeholders in the management of water resources and to build public confidence in its implementation of water resources policy.

It is therefore proposed that the Breede-Olifants CMA be established as a national public entity and listed under Schedule 3 (a) of the PFMA because it:

- would be established in terms of National legislation
- may be partially funded from the National Revenue Fund
- would be accountable to Parliament
- would not be authorized to carry out on a business activity providing goods and services in a market environment.

### **4.3.3 Associated Attributes of the Public Entity**

Following the Governance Framework, the attributes of a public entity (for service delivery) are presented below, and form the basis for the CMA, particularly in terms of governance, organisational and financial arrangements.

#### **4.3.3.1 Legal issues**

- *Legal status:* the CMA is a separate juristic person in terms of the NWA.
- *Establishment:* created in terms of the National Water Act (s78(1)) by the Minister of Environmental and Water Affairs
- *Dissolution:* dissolved in terms of the National Water Act (s88(1)) by the Minister of Environmental and Water Affairs.

#### **4.3.3.2 4.3.3.2 Accountability relationships**

- *Political accountability:* The Minister, as the Executive Authority, is accountable to Parliament and represents government's policy and shareholder interests. The Governing Board is accountable to the Minister, and the Minister should develop a service level agreement with the Board.
- *PFMA statutory accountability:* The Governing Board is the Accounting Authority in terms of the PFMA.

- *Reporting arrangements:* the CMA prepares a separate annual report and annual financial statements, which are sent to Minister via the accounting officer of DWS. The Minister tables these documents in Parliament.

#### **4.3.3.3 Governance arrangements**

- *Appointment of Board:* The Governing Board is appointed by the Minister, taking cognizance of the recommendations of the Advisory Committee (s81(1) of NWA). The Minister determines performance criteria for the Board.
- *Dissolution of the Board:* The Minister as the Executive Authority
- *Replacement of Board members:* The Minister as Executive Authority appoints alternative members to the Board where Board members resign or are removed before completion of their term of office. Board members are removed by the Minister under s83(1) of the National Water Act. Alternatives are appointed for the remainder of the term of office.
- *Appointment of CEO:* The Governing Board appoints the Chief Executive Officer (with the approval of the Minister) and determines performance criteria and assesses performance of the CEO. The Minister is empowered to remove the CEO after consultation with the Board.

#### **4.3.3.4 Financial arrangements**

- *Tabling of plans:* The Governing Board must approve and submit a strategic plan to the Minister.
- *Submission and approval of budgets:* The Governing Board approves the budget and submits it to Minister.
- *Funding/ Budget:* cost recovery (water charges), grants-in-aid, donations and DWS subsidies / financial aid.
- *Spending autonomy:* The Entity is autonomous within the limits of relevant legislation and agreements.
- *Pricing:* By the Entity, in line with the national Pricing Strategy on Raw Water.
- *Borrowing powers:* the CMA will need specific approval from the Minister of Finance for borrowing, but should only require overdraft facilities for working capital.
- *Surpluses/dividends:* The Entity may not make a profit.
- *Accounting basis:* accrual-based GAAP.

#### **4.3.3.5 HR arrangements**

- *Human resource regime:* The CMA will develop its own HR regime within DWS CMA Guidelines and aligned to the framework prescribed by DPSA. It will be responsible for determining positions, job evaluations and for appointing and dismissing staff.
- *Wage determination:* The CMA will determine salaries within the DWS CMA Guidelines and aligned to the framework prescribed by DPSA.

#### 4.3.3.6 Powers of the entity

- *Procurement.* Procurement will be done within the PPPFA and the CMA's own governance rules.

### 5 Legal process

#### 5.1 Introduction

The establishment of the Breede-Olifants CMA requires some consideration of the appropriate legal process to be followed amalgamating the Berg and Olifants WMAs with the established and fully functional Breede-Gouritz CMA. An examination of the National Water Act has been done, and the legal issues pertaining to the process are set out below, as well as the appropriate process to be followed to establish the Breede-Olifants CMA.

#### 5.2 Legal requirements

The overriding imperative of the NWRS2 is that the nation's water resources are an **indivisible national asset** to be **managed** in an equitable, sustainable, socially, economically and environmentally **optimal** manner for the **benefit** of society. Furthermore, The Minister, DG, organs and WMI, **must** give effect to the NWRS2 when exercising any power or duty under the Act. There are 19 water management areas designated in terms of the NWRS2.

A review is currently being undertaken, to revise the proposed WMA boundaries and as a result, it is necessary to re-organise the WMAs/CMAs by way of amalgamation and /or re-delimitation. This necessitates a change in the number and geographical definition of WMAs/CMAs.

To enable the process for the Breede-Gouritz WMA and the Berg-Olifants WMA to become one WMA, the change in the number of WMAs will be reflected in the NWRS3. The boundaries of the existing Breede-Gouritz Catchment Management Agency should be changed to include the Berg-Olifants WMA.

The recommended approach is therefore as follows:

- The National Water Resources Strategy<sup>2</sup> must be amended to change the boundaries of the water management areas according to the six new proposed areas; and then
- The provisions of section 78(1)(b) and (4) and section 89(1) should be applied to realign the existing Breede-Gouritz CMA with the newly proclaimed WMA, rename the CMA, and transfer any assets and liabilities accordingly.
- Olifants-Doorn CMA should be disestablished in terms of the section 88(1) and (2) of the National Water Act, 1998 (Act No 36 of 1998) for the realignment of the WMA of Breede-Gouritz CMA to include the Berg-Olifants WMA.

### 6 Functions of CMA

## 6.1 Introduction

The Breede-Gouritz CMA is an established corporate entity with the powers of a juristic person and full capacity (s 79(1)). The Breede-Gouritz CMA is fully functional with a governing board, staff and offices, and delegated functions. The intention of this Business Case is to expand the scope of functions performed by the functional CMA by extending the boundary and area of operation of the Breede-Gouritz CMA to include the Berg-Olifants WMA.

The functions that the Breede-Olifants CMA will perform are informed by the National Water Act, and fall into three categories:

- Initial functions as described under the National Water Act (S80),
- Inherent functions conferred on a CMA under the National Water Act, and
- Other functions that may be delegated or assigned to the CMA by the Minister.

In addition to these functions, there are a number of functions not specified in the Act which are required for the CMA to achieve its objectives, such as human resource management, which do not require delegation, but are functions that must be performed by any organisation.

Some functions, such as water resources planning and monitoring, are split between DWS and the CMA.

## 6.2 Delegation vs. assignment

The NWA enables the Minister either to delegate or to assign functions to a CMA. It is important to understand clearly the differences between these two actions.

Delegation refers to the transfer of powers to another functionary or body to enable that body to exercise those powers. Delegation is 'a revocable act by which an organ of state transfers a power or function, vested in it by legislation, to another organ of state.'<sup>10</sup> Section 238 of the Constitution provides that an organ of state may delegate a power or function to any other executive organ of state. The important element of delegation is that a delegated function can be withdrawn by the delegatee, and the delegatee retains the right to exercise the delegated function as well. Thus, it is not a permanent transfer of the power or function.

Assignment of a power or function, on the other hand, constitutes the **permanent** transfer of that power or function to another body or person.

In this regard, DWS will carefully consider what functions are to be assigned and what functions are to be delegated to a CMA.

## 6.3 Delegation of functions

There are some functions on which the Minister has discretion with regards to delegation, and there are certain functions which the Act prohibits the Minister from delegating. For

---

example, the Minister may not delegate the power to make regulations, authorise a water management institution (WMI) to expropriate land, appoint a member of the Water Tribunal or the governing board of a CMA.

The policy position underpinning this functional analysis is that CMAs will, in due course, perform most of water resources management functions, and that DWS will only retain those strategic and national level functions. Thus, in determining whether a function should be delegated to a CMA, the following issues should be considered:

- The spatial scale at which the function must be performed, in particular national or regional multi-WMA functions should not be delegated, while WMA or local functions should be.
- The significance of the potential impact of the function;
- The capacity to perform the function, which would include a plan to build that capacity for the delegation, rather than the need to demonstrate existing capacity; and
- The principle that a WMI cannot regulate or audit itself.

Based on these principles, and the identification of those functions that a CMA would not perform, the water resources management functions may be delegated and performed by a fully functional CMA are outlined below.

### **6.3.1 Develop Policy & Strategy**

The formulation of policy and legislation will remain a DWS function, to which a CMA would provide input. At the strategy level, a CMA is responsible for the development of a catchment management strategy, as well as financial and business planning for the organisation.

DWS will continue to:

- Develop legislation, methodology and guidelines to enable WRM.
- Develop the national water resources strategy, the pricing strategy and the institutional roles and responsibilities.
- Determine the water resources class, as well as the Reserve and RQOs in resources of national significance<sup>11</sup>.

In some cases, DWS may delegate the determination of the Reserve and resource quality objectives (RQOs) to the CMA for those resources that are not considered to be of national significance.

### **6.3.2 Regulate Water Use**

A fully functional CMA will perform most of the responsible authority functions in relation to authorising and enforcing water use and setting and collecting water use charges. However,

---

<sup>11</sup> This concept has not been defined, and must be defined in order to be able to distinguish between what will be done by DWA and what by the CMA

DWS will retain authorisation and allocation of water for strategic purposes, inter-WMA transfers and where the CMA is the proposed water user.

Water use registration, validation and verification will be done by the CMA. DWS will, however, maintain the national WARMS database and CMAs will have to provide the information to DWS for this.

### **6.3.3 Establish, Support and Regulate Institutions**

DWS will remain responsible for the establishment, support and regulation of CMAs, Water User Associations that manage government waterworks or have government guaranteed loans, and any national level bodies such as the TCTA and WRC. DWS will also be responsible for inter-WMA coordination and conflict resolution.

A CMA may establish, regulate and support water management institutions that have been specified in its catchment management strategy, such as water user associations, as long as these do not manage government water schemes or have government guaranteed loans. The CMA is obliged to coordinate water related activities of institutions and ensure community participation in WRM within the WMA.

### **6.3.4 Monitoring and planning**

DWS will remain responsible for the development of the national information monitoring system, and for monitoring of water resources at those points defined as part of a national monitoring system. This is necessary to maintain national level monitoring and assessment of the state of water resources. The actual monitoring may be outsourced or delegated to a CMA.

Each CMA will be responsible for any additional monitoring of water resources that is necessary for the implementation of the catchment management strategy in their water management area and for assessment and evaluation based on this monitoring.

DWS will remain responsible for national water resources planning, including the determination of allocable water per water management area and the determination of allocations for international purposes. The CMA will plan for the allocation and management of water within the allocable water determined by DWS. The CMA may prepare reconciliation scenarios for its area of jurisdiction but will need to co-ordinate this carefully with DWS to avoid duplication.

The CMA will be responsible for water resource rehabilitation, emergency interventions and disaster management. The CMA will be responsible for issuing flood warnings within the WMA, with DWS issuing flood warnings with inter-WMA impacts or implications. Drought rules will be determined and implemented by the CMA.

### **6.3.5 Infrastructure**



The funding, development, refurbishment, operation and maintenance of national water resources infrastructure will remain a function of DWS and the TCTA. The CMA will be empowered to develop infrastructure in the service of its core functions, such as monitoring infrastructure.

DWS will remain responsible for dam safety regulation across the country.

## **6.4 Transfer of functions to the Breede-Olifants CMA**

The Breede-Olifants CMA is in a unique position because the Breede-Gouritz CMA is a fully functional CMA which in this case is just expanding the boundaries to include the Berg-Olifants WMA. This means that the Breede-Olifants CMA will continue carrying out their *initial and inherent functions* as well as functions already delegated or assigned to the CMA.

### **6.4.1 Developing relationships and legitimacy**

As a “new” public entity the Breede-Olifants CMA will initially have to focus developing a catchment management strategy, building relationships and building its profile amongst stakeholders in the WMA.

### **6.4.2 Build capacity and consolidate**

Functions to be performed and delegated are outlined below:

#### **(i) Resource Directed Measures**

The NWA prescribes in chapter 3 that for all significant water resources, the class, reserve and resource quality objectives have to be determined as soon as reasonably practicable. S14 requires that all water management institutions give effect to these while executing their functions. During this phase, the CMA should be in a position to determine these factors for water resources within the WMA that are not considered to be of national significance, and the relevant powers must be delegated to the CMA. All reserve determinations that are inter-WMA or have strategic importance will be undertaken by DWS.

#### **(ii) Water Resources Monitoring**

Water resources monitoring includes both water quality and quantity monitoring of surface and ground water. The monitoring required for the national information monitoring system must be kept under the control of DWS. However, the CMA will be delegated the power to monitor water resources as necessary for the implementation of the CMS and the management of water at the WMA level. Since this monitoring will have to feed into the national systems, the CMA must comply with monitoring standards and protocols determined by DWS.

In the delegation of this function, DWS must set conditions for the provision of information and data to DWS and the necessary protocols and standards for such.

#### **(iii) Disaster Management**

During this phase 2, the CMA will be delegated the authority to assess and manage droughts, floods and water quality disasters in the WMA. The CMA should have developed a disaster management plan (DMP) as part of the CMS, which it should now implement.

**(iv) Water Conservation and Demand Management**

The implementation of WC/WDM is the encouragement of water users to conserve water, thus lowering the overall demand for water. During this phase, the CMA should be involved in assisting to implement WC/WDM strategies. This does not, however, require the delegation of specific powers or functions.

**(v) Operating of Waterworks**

Under specific circumstances CMAs may be required to either develop or operate waterworks. During this phase this function may be delegated if necessary.

**(vi) Issuing of general authorisations and limited authorisation functions**

During this phase the issuing of general authorisations can be delegated to the CMA, as well as authorisation of water use with limited impacts, along the lines of the powers currently delegated to regional offices.

**(vii) Institutional Oversight**

The CMA will, from establishment, be responsible for institutional oversight within the WMA, which includes co-ordinating with institutions, establishing stakeholder forums and providing support to other water management and water services institutions.

During this phase, the CMA should be delegated the power to establish Water User Associations (WUAs) that do not manage government waterworks and do not have government guaranteed loans.

**6.4.3 Fully functional and responsible authority**

During the third phase the following powers and functions will be delegated to the CMA:

**(i) Water Use Authorisation and Licensing**

Water use authorisation and licensing are continued from phase 1, at which stage the CMA would have been involved with processing applications and advising DWS on issues related to license applications, and phase 2 where general authorisations and limited licensing powers were delegated to the CMA.

During the final phase, the CMA will be delegated the power to authorise water use and issue licenses. These functions will be delegated to the CMA for non-strategic water use as authorizing strategic water uses will remain a function of DWS.

**(ii) Compulsory Licensing**

In areas with water stress (demand exceeds availability) or inequitable access to water resources, compulsory licensing is undertaken to assess the volume and quality of water available and allocating that available resource in an equitable and sustainable way. In phase 3, the CMA will be delegated the power to undertake compulsory licensing.

**(iii) Issuing of Directives<sup>12</sup>**

As the responsible authority, the CMA should be delegated the power to issue directives (over and above the inherent powers in this regard conferred by the NWA). The directives could include, but will not be limited to:

- Requesting alterations to waterworks
- Determining operating rules for systems
- Controlling, limiting, and prohibiting water use.

---

<sup>12</sup> Refer to Appendix 1 for additional information

## **6.5 Considerations for the delegation process**

Both the Governing Board of a CMA and the Minister will have its own view of what functions should be delegated to the CMA at what point in time, and these outline offered above should be seen as a guideline only, not a proscriptive list.

The rate and order of the powers and functions to be delegated may be influenced by:

- Water resources management priorities of the CMA as outlined in the CMS
- Functions in the WMA that are not performed adequately by the regional office
- The ability of DWS to reconfigure current information systems in order to accommodate the WMA geographical demarcation
- WRM initiatives of other institutions
- Whether the CMA has adequate capacity and resources to perform the proposed functions, or has a clear plan to address possible capacity limitations
- Whether the regional office staff are available for secondment and/or transfer as a critical mass with the functions, and the implications for the remaining functions performed by DWS and
- The status of support functions such as finance and corporate services within the CMA.

The division of functions under the National Water Act into initial functions of a CMA, inherent functions implicit in the NWA, functions to be delegated to CMAs, and functions to remain the responsibility of DWS and/or the Minister are captured in detail in Annexure A.

### **6.5.1 Outsourcing or development a technical support pool**

It is not necessary for the CMA to perform all of its functions in-house. Certain functions could be out-sourced to other water management institutions, consulting firms or technical contractors. The possibility also exists, in due course, for a number of CMAs to develop a shared technical pool which can bring together scarce technical resources to serve more than one CMAs.

However, it must be noted that in this case, the CMA does not relinquish any powers or duties but simply hires in skills and resources as may be required from time to time.

## **6.6 Implications for DWS structure and functions**

Once all CMAs have been established as responsible authorities, the functions to be performed by DWS will be significantly reduced, with implications for the structure and budget of DWS as well. It is envisaged that the water resources management staff in the regional offices will be very small, with a limited number of functions. There will also be an impact on the staff in the national office, with some or part of the functions currently performed in the national office being taken over by CMAs as well.

The functions that will be retained by DWS in the long term are:

- Development, revision and amendment of policy and legislation
- National water resources planning and reconciliation of supply and demand, ensuring that CMAs operate within such planning parameters, and ensuring that South Africa operates with an appropriate level of water security at the national level;
- Development, operation and maintenance of national monitoring and information systems
- Authorisation of strategic water use, national infrastructure development and operation, and determination of inter-basin transfers
- Regulation and oversight of CMAs, and WUAs managing government waterworks or with government guaranteed loans

- Determination of classification, reserves and resource quality objectives for water resources of national significance or with significant inter-water management area implications and ensuring that CMAs implement such requirements
- Developing and ensuring the implementation of the National Water Resource Strategy, including the raw water pricing strategy
- Determination of monitoring and information protocols and standards
- Flood monitoring and management in national systems
- Development, operation and maintenance of national water resources infrastructure
- Determination of guidelines and regulations for establishment of institutions
- Ensuring water use authorisations are in line with national policy, procedures and guidelines, including policies on redress and equity
- Providing technical support to CMAs
- Negotiating and overseeing agreements in transboundary basins.

## 7 Organisational arrangements

### 7.1 Proposed functional structure of the Breede-Olifants CMA

The Breede-Olifants CMA's functional structure must, in addition to providing for implementation of the initial functions, provide a systematic response to its water resource management challenges. A possible high level functional organisation of the Breede-Olifants CMA consists of functional areas captured in the diagram below and briefly described in the subsequent sections.

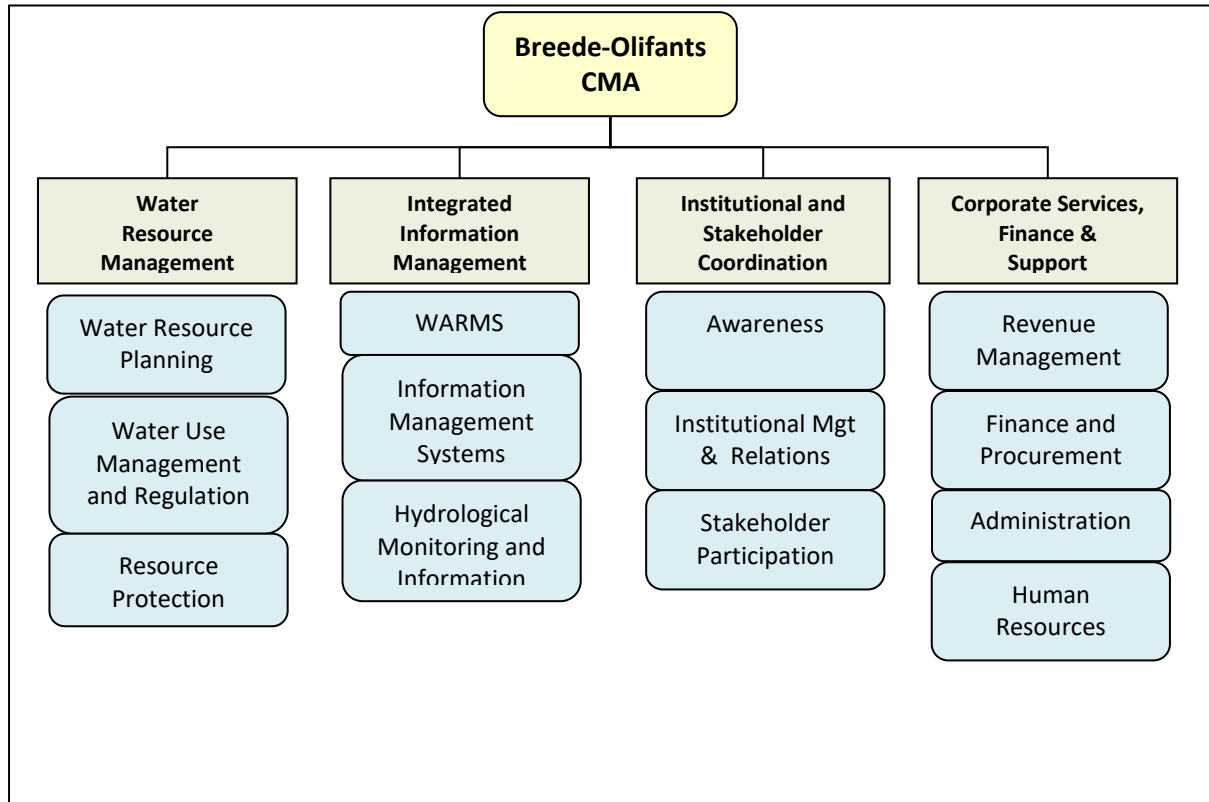


Figure 7.1: Breede-Olifants CMA functional structure

### 7.1.1 Water Resource Management

The water resource management functional area is responsible for coordinating and managing all water resource related functions including water resource planning, water use management and related responsibilities such as water resource protection and regulation, and water allocation reform.

A summary list of activities per sub-function are presented below.

- Water Resource Planning is responsible for planning the development, allocation and utilisation of water resources (including water quality aspects) to meet resource quality objectives (RQO), and to reconcile supply and demand, including the operation of water resources infrastructure. This division will be responsible for performing the following functions:
  - Conducting and commissioning water resources studies and investigations on water resources, advising DWS and interested parties on the matter and providing support to integrated water resources planning through:
    - Developing a catchment management strategy (CMS) in accordance with the national water resources strategy. This function includes:
      - Conducting, commissioning and participating in investigations and studies to gather information to support management decisions for strategy development
      - Developing management strategies, including WRM/ reconciliation, allocation and water quality management plans
      - Investigating and providing advice to DWS on WMA planning to inform the NWRS and other national processes
      - Advising users/institutions on implications of CMS/ NWRS for water resource development
    - Investigating and providing advice on disaster management to DWS and other institutions on the management of floods, droughts, and pollution incidents, putting in place early warning systems and supporting municipalities in preventing development within floodplains.
- *Water Use Management and Regulation:* The water use management and regulation programme includes activities such as licensing, registration of water users, pollution control and ensuring water use compliance and enforcement for the 11 prescribed water uses. The water quality management priority includes the registration of waste discharge and developing measures for effective resource protection and compliance.

While the CMA will initially focus on making recommendations to DWS regarding water use authorisations, promoting and implementing demand management interventions and issuing directives and restrictions on water use during emergencies, ultimately it will take over the licensing function, including compulsory licencing.

- *Resource Protection* includes determining reserves and resource quality objectives, managing the river health programme, and protecting the state of water resources.

### 7.1.2 Institutional and Stakeholder Coordination

The institutional and stakeholder coordination functional area will focus on

- establishing and fostering credibility within the water management area
- establishing, overseeing and providing support to water user associations,
- ensuring co-ordination between water management institutions and relevant government departments and organs of state in the water management area, and
- establishing and maintaining stakeholder consultation fora and mechanisms, with a particular focus on ensuring the participation of poor and marginalised communities.

Due to the different contexts of the four water management areas under the jurisdiction of the Breede-Olifants CMA, it may be necessary to split this unit in four, with one focusing on the Breede, one on the Gouritz, one on the Berg and one on the Olifants.

The initial focus, after expanding the Breede-Gouritz CMA's WMA to include the Berg-Olifants WMA, should be on coordination and mobilisation of stakeholders, including focusing on building legitimacy and strategic relationships with key partner institutions, and establish and supporting consultative bodies such as forums.

### 7.1.3 Data Management

Data and information acquisition, management and sharing/dissemination is a key to fulfilling the role of the Breede-Olifants CMA. The information management functional area will focus on providing comprehensive and consistent information at all levels, expand the current information systems to ensure effectiveness, including establishing strategic interfaces with DWS information systems where necessary to improve access to information by stakeholders. The key aspects of this function are set out below:

- *Monitoring systems:* the CMA must expand on the existing monitoring of water use and resource status that they need to perform their functions, over and above the national monitoring conducted by DWS.
- *Data and information systems:* the CMA must put in place the necessary databases and information systems to capture the relevant data to be provided by DWS from the national information system and from their own monitoring systems. These must cover water use (registration and authorisation), and resource status (water quality and quantity). These systems must interface effectively with the DWS systems and with other related CMA systems. DWS will need to put in place appropriate protocols to ensure that this is possible.
- *Information assessment:* The CMA must be in a position to analyse the information to provide trends and evaluation assessment to the planning and management sections so that they are able to respond appropriately to ensuring effective use and management of water resources.

The information manager must be an integrator, facilitating the integration of water resource information to corporate and strategic information systems, in particular keeping up to date

information on registrations and water use to support revenue collection and strategic planning process at WMA and National level.

#### **7.1.4 Corporate Services, Finance and Support**

The corporate service, finance and support functional area will be responsible for collection and administration of water resource management charges, corporate financial management, corporate strategic planning, human resource management, and general administration of the organisation. Some of its key areas of focus include:

- *Billing, revenue collection and management:* focusing primarily on the billing and collection of water resource management charges, and the administration of all activities related to revenue collection, including issuing of invoices and managing debt associated with non-payment.
- *Finance:* to ensure general financial sustainability and viability of the CMA through effective financial planning and budgeting and management of accounts for the CMA, including ensuring that financial controls and reporting systems are in place.
- *Administration:* to manage and ensure effective office administration and general logistic / office support is in place, including effective records management
- *Human resource management:* The human resource development and performance management will be oriented towards the broader human capital management and to ensure employee well-being through processes such as:
  - Development and implementation of human resource systems and policies
  - Recruitment and retention of staff
  - Managing staff performance
  - Managing the internal Breede-Olifants CMA change management and transformation process
  - Employee assistance programmes
  - Managing employee occupational safety
  - Awareness and capacity building programmes
  - Coordinated training and skills development interventions

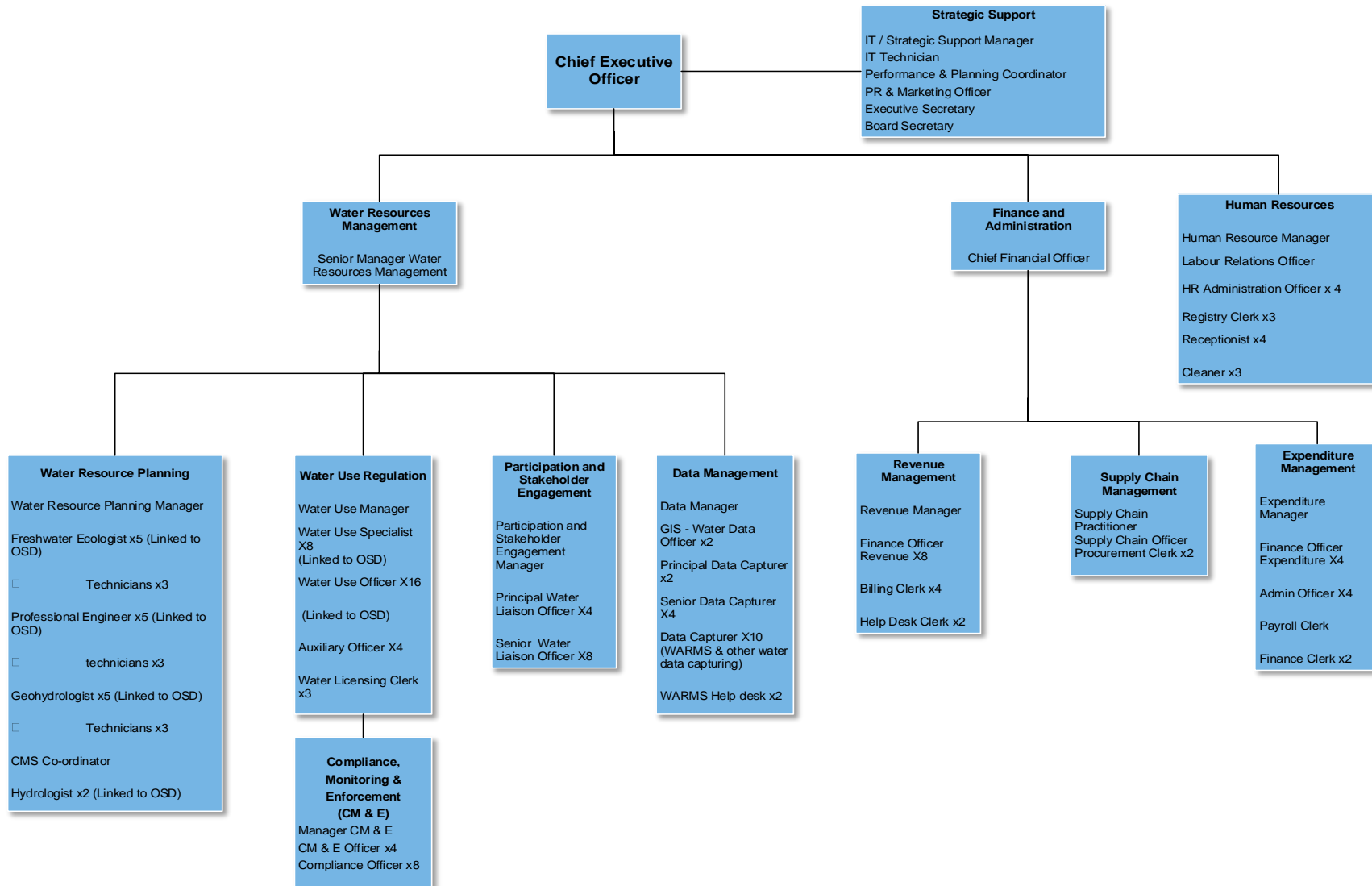
### **8 Organisational requirements**

Given the functional analysis and description of key areas of focus discussed above, the proposed organisational structure is discussed below. The organisation is led by a Chief Executive Officer supported by two Executive Managers namely the Senior Manager Water Resources Management and the Chief Financial Officer. The Breede-Olifants CMA Water Resource Management Division requires four management positions consisting of Water Resource Planning Manager, Water Use Regulation Manager, Institutional and Stakeholder Relations Manager and Data Manager, Finance and Administration will be led by the Chief Financial Officer with two managers: Revenue Manager and Expenditure Manager. Human Resources will be led by the Human Resources Manager.

The Board Secretary located in the office of the CEO will perform legal management and administration of the business of the Breede-Olifants CMA. The CEO reports directly to the Board who will also provide support to the CEO and executive management. Below a proposed organisational structure is discussed, together with high level description of posts of senior managers, and a description of responsibilities to be performed by the CEO of the CMA. In addition, this chapter considers remuneration, performance management, conditions of employment, human resource management systems and policies.

The diagram below represents a high-level organisational design indicating the relationship between the Board, the CEO, senior managers and operational personnel responsible for the functional areas. Further unpacking of the organisational structures and detailed descriptions of posts in each functional area will form part of the business planning process to be spearheaded by the CEO as part of the establishment process.





## **8.1 Staffing requirements**

### **8.1.1 Strategic Support - Office of the CEO**

Implementation of the strategy and business plan of the Breede-Olifants CMA will be driven by an executive management team lead by the CEO. The executive management team will consist of the CEO, Company Secretary, and all Executive Managers. The Office of the CEO is the strategic hub – providing strategic guidance and shaping the direction of the Breede-Olifants CMA. Strategic branding and marketing, Performance Planning of the CMA, the Executive Secretary and IT/Strategic Support all fall within the CEO's office. The Board Secretary will play a dual role. The first role is that of providing strategic legal support to the Board. The second role is providing support to the executive management team of the CMA and managing the legal affairs of the CMA. Whilst the Board Secretary reports directly to the Board, he/she will operate at the same grade/ post level as executive managers that report directly to the CEO.

### **8.1.2 Water Resource Management**

The Senior Manager Water Resources Management will lead the following divisions, each division with its own managers and supporting staff/officials. These divisions include: Water Resource Planning; Water Use Regulation including Compliance Monitoring & Enforcement ; Institutional and Stakeholder Relations and Data Management.

#### **8.1.2.1 Water Resources Planning**

The Water Resource Planning Manager will lead the water resources planning division of the CMA, who will be supported by Freshwater Ecologists, Professional Engineers, Geohydrologists, Hydrologists and a CMS Coordinator.

#### **8.1.2.2 Water Use Regulation**

This is a highly technical division of the CMA led by a Water Use Manager with supporting staff responsible for resource protection and water utilisation. The supporting staff will consist of Water Use Specialists, Water Use Officers and a Compliance, Monitoring and Enforcement Team who have experience relating to water utilisation by various water users and must understand the role of water in socio-economic development and poverty alleviation in the WMA. This technical team with industrial water use, legal /enforcement and environmental acumen will provide operational support to the executive manager.

#### **8.1.2.3 Institutional and Stakeholder Coordination**

This division is critical for developing trust, building legitimacy, and publicising the institution as a champion for water resource management in the WMA. This division will be led by an Institutional and Stakeholder Relations Manager who is a water sector institutional coordinator with extensive knowledge of the water sector and related institutional arrangements and their impact must therefore lead the function on water resource

management in the WMA. An operational team of coordinators managing localised stakeholder engagement and mobilisation activities in the four sub-areas will support the institutional specialist.

#### **8.1.2.4 Data Management**

This is a highly specialised division with technical specialists in GIS and WARMS, led by a Data Manager. The Data Capturers are responsible for managing the WARMS database as well as other water data capturing., Minimum requirements for the GIS Water Data Officer include BSc degree or formal education in GIS; or degree in geography, natural resources, computer science or related field; including professional experience as an advance GIS user will also be considered.

### **8.2 Finance and Administration**

The Finance and Administration component is a support function of the CMA. An executive manager who is a Chief Financial Officer leads the management and staff complement. The senior management team of the unit will consist of a Revenue Manager and Expenditure Manager supported by various administrative/financial clerks. The Revenue Manager and Expenditure Manager will report directly to the CFO with the Revenue Manager responsible for the function of administering the collection and management of activities related to the water use charges. The Expenditure Manager's focus will be on managing and administering the general finances of the CMA.

### **8.3 Human Resources**

#### **8.3.1 Organisational Development**

Organisational development, staffing and general human capital management will be the responsibility of the Human Resource Manager, supported by a Labour Relations Officer, HR Administration Officers and supporting staff that include the Registry Clerks, Receptionists and Cleaners.

#### **8.3.2 Transfer of staff**

Section 197 of the Labour Relations Act (LRA) allows for staff to be transferred as part of "a going concern" to another organisation provided that the conditions of service are "substantively the same".

#### **8.3.3 Grading and remuneration**

The topic on remuneration of staff is a vexed one as it affects the organisation's capacity to attract and build its internal capacity and staff motivation. Clearly, the Breede-Olifants CMA is a technical institution, with a requirement to enable government meets its national obligations while also building a reputable international presence through acceptable IWRM practices. This means that it will depend largely on the availability of high level technical and

coordination skills to perform its functions effectively. Such technical skills are required for both strategic and operational management. With these issues in mind, we propose two remuneration models, one for the Board and another for staff of the CMA. Each of these systems has a sound basis and is defensible.

#### **8.3.4 Board remuneration**

Where a board consists of members from the public and private sectors the following principles may be applied:

*Public Sector Board Members:* As these individuals will be employed and paid through public sector funds, the principle is that they do not earn fees for sitting on the Board. In essence, they should spend part of their working day on the Board in an official capacity and, as a result, should not accrue additional fees. Obviously, expenses would need to be reimbursed at cost. In addition, the risks incurred in terms of fiduciary accountability would not necessarily reflect directly on the individual in his/her personal capacity. Should a breach occur, it is unlikely that the Public Sector Board Members would face direct repercussions from their host Department. The provision would naturally be that the individual would need to act in good faith in terms of the mandate given by their employer. The net effect is that the risk for the individual is minimised directly by the nature of their employment.

*Private Sector Board Members:* In contrast, those individuals serving in a personal professional capacity on the Board would do so in their own time. As a result, there is a good case for remunerating them for their contribution. In addition, as full members of the Board, their risk exposure is greater than their public sector counterparts are. The rationale is that breaches in governance would have a direct effect on the future employment prospects of such individuals or their credibility to serve on other boards of directors.

For both their time as well as reward for exposure to risk we propose to remunerate these individuals on the basis of a grading system as stipulated by National Treasury.

#### **8.3.5 Remunerating of staff**

The CMA is already in operation; therefore, it makes sense to continue implementing the current grading and remuneration system with provision that it has clear links to external benchmarks and salary surveys, particularly DPSA salary scales. Effective implementation of any remuneration system requires a clear definition of job descriptions in preparation for benchmarking and grading.

#### **8.3.6 Performance management**

Performance management is a two-way process integrating both the organisation and the individual. This is based on the understanding that the success of both the individual and the organisation are interdependent. However, it is not the scope of this document to suggest a specific approach to performance management by the CMA. That responsibility is vested in the Board.

### **8.3.7 Organisational systems and policies**

Information management systems are critical from a water resource management point of view. Since the CMA is required to collect and manage revenue to ensure its sustainability, a standardised revenue management system has been generated coupled with water resource management systems to capture and management of data. Key among these are:

- Geographical Information Systems
- Hydrological Information Systems
- Standardised Billing System
- WARMS
- Waste Discharge Charge System

### **8.3.8 Organisational policies**

It is important to ensure marketability and stability from the early stage of CMA establishment. From a human capital management perspective, organisational policies are critical. A table of contents for a typical set of policies would include sections on:

- Employment practices
- Performance management
- Salary administration
- Leave
- Employee benefits
- Labour relations
- Discipline and rules
- Training and development

It is our understanding that best practice policies currently utilised within the CMA may continue to be used.

## **9 Financial Arrangements**

The viability of any institution is dependent on a number of aspects that go beyond the purely financial. Whilst very important, some of these aspects can be addressed and developed over time, whereas financial viability has a very direct impact from early on in the institutional development process and remains a key factor in the longer term. It is equally important to note that these financial aspects are not static and shift over time, and this is particularly the case in the establishment and development of new institutions or where there are functional, and financial, transitions from a certain management regime to another.

The CMA's financial arrangements need to support the performance of water resource management functions in the Breede-Olifants WMA.

### **9.1 Sources of Finance**

Principally, the establishment costs of the Breede-Olifants CMA are to be funded by the department, from its parliamentary appropriation. Water use charges are to be ring-fenced

for implementation of water resources management in the catchment, not for the establishment of new institutional arrangements.

While the intention is that the operations of the CMA should be funded from water use charges, some operational funding from the DWS may be required where subsidy arrangements exist.

Section 84 of the National Water Act (NWA) gives the CMA full authority to raise funds for the purpose of exercising its powers and duties as an original function from the time of establishment. The Act details the possible sources of funding for the CMA as:

- Parliamentary appropriation
- Water use charges
- Money obtained from any other lawful source, including:
  - i. recreational concessions,
  - ii. license application fees,
  - iii. donor support and sponsorship,
  - iv. contractual payments,
  - v. return on Investment, and
  - vi. in-kind contributions.

### **9.1.1 Water Use Charges and the Pricing Strategy**

The primary source of finance for the CMA will come from water use charges. Water uses as defined in the NWA can be broadly grouped under three categories:

- Abstraction related uses
- Waste discharge related uses
- Non-consumptive uses

Over time, the Pricing Strategy, established under the NWA, will allow DWS/CMA to levy charges for most of the water uses defined above, after consultations with stakeholders. Charges are already in place for abstraction related uses and are currently collected by DWS and the CMA. The Waste Discharge Charge, on the other hand, will be piloted in three catchments around the country over the next two years and rolled out more broadly after that. While assumptions can be made about the implication of implementing waste discharge charges, the pilot testing will reveal the real implications of the system.

Lastly, a strategy has been developed for charging for recreational use, as a non-consumptive water use, however, there is some institutional clarity required as to roles and responsibilities in this regard. These will be clarified by DWSs Institutional Reform and Realignment process.

To be clear, there are also a number of water uses that are not subject to charges under the Pricing Strategy. These include:

- water use under Schedule 1 of the NWA,
- basic human needs (Reserve),

- ecological sustainability (Reserve), and
- international obligations.

### **9.1.2 Financial support**

Although the objective is to have water users pay for water resources management, DWS will also need to financially support the CMA for the performance of certain functions, particularly those with national significance. There are a number of reasons that serve as motivation for this financial support, at least in the short-term:

- The Breede-Olifants CMA will be performing water resource management functions that are in the national strategic interest. For example, a large inter-basin transfer between the Breede-Gouritz and the Berg-Olifants is of national and strategic importance, and there are significant responsibilities attached to ensuring this water remains available.
- A need exists for water allocation reform and redress within the WMA, as a national and regional priority, and therefore issues of affordability and equity require careful consideration.
- Although the long-term financial viability of the Breede-Olifants CMA is not a cause for concern, financial support may be required to ensure short to medium term viability until there is adequate cost recovery and the issue of the capping of water use charges has been addressed. Issues of ability-to-pay and willingness-to-pay are anticipated in the WMA in the short-term and for a young institution these can be challenging to deal with and hence the DWS support both financially and technically will prove critical.
- The Pricing Strategy introduces a cap on water use charges for agriculture (1.5c/kl plus CPI annual increase) and forestry (R10/ha plus CPI annual increase). Where water resource management costs are in excess of this cap, that portion of the charge in excess of the cap should be provided as a subsidy transfer from DWS.

## **9.2 Flow of capital**

Funds flow into the Breede-Olifants CMA from water use charges, and from DWS establishment and operational support grants, in the first instance. As described above, other sources of finance may be identified, but these are unlikely to represent long-term sustainable sources of funding.

Funds from the WRM charge will ultimately flow into the CMA on a regular basis, with some water users billed monthly (characteristically large users) and other users billed six-monthly (characteristically smaller users). The CMA will, in due course, also collect these charges in the Berg-Olifants WMA.

As the establishment of the Breede-Olifants CMA is building on an already functional institution, the establishment grant from DWS will cover any gap for establishment/expansion costs within the Berg and Olifants sub-areas. These funds should be transferred into the CMA account as a lump sum early in the expansion of the institution, to enable it to continue the establishment/expansion process without encountering cash-flow constraints.

A 3 year budgetary cycle needs to be put in place for ongoing operational support grants required by the CMA to make effective planning and execution possible. This can be transferred at the beginning of each financial year as a lump sum deposit, after the necessary adjustments for incorrect assumptions about key determinants of the budget e.g. inflation. A lump sum transfer is justified, as the funds are relatively small and interest accruing over the financial cycle will be limited. Significantly, lump-sum transfers will enable the CMA to conduct its operations and undertake its functions without encountering cash-flow constraints.

During the initial institutional expansion period capacity may well be stretched and the use of service providers will be required to assist with key operational matters, particularly within the Berg and Olifants areas. Payments from the Breede-Olifants CMA will be based on contracts between it and service providers.

### **9.3 Financial systems arrangements**

The Breede-Gouritz CMA has demonstrated sound governance and financial management in the process of decentralisation of billing and its financial management system. The Breede-Olifants CMA will therefore:

- collect revenue and allocate funds within the CMA
- Following the expansion of the current Breede-Gouritz CMA to include the Berg-Olifants WMA, the CMA will need to be focused on stakeholder buy-in and becoming a credible, customer-oriented organization within the Berg-Olifants sub-areas as well as continuing to work towards the revision and implementation of the Catchment Management Strategy within the Breede-Olifants WMA. The CMA must seek to cement its credibility and legitimacy around its role in the new WMA and must be able to respond to queries on water use authorisation and associated billing soon after establishment/expansion. Concurrently, the CMA will encounter a range of establishment costs within the Berg and Olifant sub-areas as area office premises are secured and information systems are developed. At this stage of development of the CMA the billing and collection cycle will be split between the CMA and DWS as follows:
  - the CMA will take over the customer relations responsibility, begin to set water use charges and undertake revenue collection.
  - DWS will ensure that the CMA has access to key systems such as WARMS that assist the CMA with issues regarding registration of water use
  - The centralised DWS SAP system will be used for billing, debt management and financial accounting, with WRM charges submitted to DWS by the CMA. Transfers from the trading account and the DWS main account will be made to the CMA account according to the arrangements agreed to in the CMA business plan. These transfers will include funds generated through WRM charges, establishment support funds from DWS and any requisite operational support.
- During consolidation of the CMA, the financial information and HR systems will have been strengthened and the CMA will have assumed its fiduciary and governance



responsibilities, and the billing and debt management function will be decentralised to the CMA:

- Account payments would be directly to the CMA account and relevant entries would be made by the CMA onto SAP.
- Limited or no payments would be due to DWS for WRM functions (as these would largely have been taken up by the CMA as legally mandated), but there may be payments for WRC levy and/or Working for Water (WfW) projects if these are included in this invoice.
- Operational financial support from DWS may be required where a subsidy has been introduced for the agricultural/forestry sectors (i.e. capping of the WRM charge at 1.5c/ kl escalated at CPI per annum) or where the CMA is not able to recover the costs of delivering efficient and effective WRM services through user charges, due to low affordability of charges following redress and allocation reform.
- Accordingly, risk is shared between the CMA and DWS, with the business plan as the key reference for the financial and governance audit.
- After the CMA takes up the responsible authority functions, it assumes full responsibility for cost recovery and is largely financially self-sufficient.
  - DWS will remain responsible for financial support necessary to make the CMA financially viable where reasonable costs of the CMA cannot be covered by water resource management charges.

## **9.4 Financial analysis**

The financial analysis presented below is based on a financial model for the CMA for the 5 years 2021/22 to 2025/2026. It is based on calculated expenditure, differentiating salary, overheads, outsourcing and capital repayment costs, with recovery through a combination of water use charges and financial support. It takes account of a number of issues, including possible non-payment by some users. As the expansion of the Breede-Olifants CMA effectively develops from an already operational CMA, the five-year strategic plan developed by the Breede Gouritz CMA is an important starting point for this analysis, noting that this institution is already moving towards a higher level of functionality, with the Minister having delegated a suite of powers and functions.

### **9.4.1 CMA Expenditure**

Based on the assumption that the Breede-Olifants CMA would be fully functional after 5 years, **Error! Reference source not found.** there will be an increase in costs over the five years, based on an extrapolation of the expenditure estimates contained within the Breede-Gouritz CMA annual reports, strategic plan and business plans.

Unlike a newly established institution where one would experience a delay between establishing the governance structures and the development of operating expenditure, the Breede-Olifants CMA will continue to perform functions in the Breede-Gouritz area whilst establishing itself in the Berg-Olifants area. During this period, considerable effort will be applied in engaging stakeholders and some service provider support will be required.

In addition to routine operating expenditure, the process of amending the boundaries of the CMA will incur various once-off costs, to be funded by DWS. These may distinguish between those that are necessary for the CMA organisational establishment and initial WRM costs associated with functions that may also be funded through water use charges (and therefore may not require DWS support after the first few years).

Organisational establishment costs include:

- appointing a governing board and initially building its capacity (additional to the cost of the Board operations and administration covered in the CMA expenditure) as well as including change management processes;
- developing the first revised business plan; and
- initial capital expenditure on communications, computers and obtaining/remodelling premises.

Initial WRM costs (depending upon available funding) may include:

- extending stakeholder participation, initial empowerment/capacity building of disadvantaged communities, and awareness creation around WRM and the CMA establishment; and
- developing the first catchment management strategy for the entire WMA (an initial function of the CMA), bearing in mind that a CMS for the Breede-Gouritz area has already been developed.

BUDGET FOR THE NEW BREEDE-OLIFANTS CMA	BUDGET 2021/22
General Expenses	6,977,023
Hiring and Rentals	8,141,250
Furniture & Office Equipment	166,835
Staff Salaries & Allowances	106,273,662
Staff Training and Developments	1,076,657
Professional Fees	9,462,084
It Equipment – Breede-Olifants CMA	1,017,901
Travelling Agency - Accommodation and Travel - Staff	5,440,821
Public Participation and Engagements	11,040,844
Vehicles and Fuel	714,860
Sub - Committee Meetings	783,022
Projects	24,934,495
Total Operating Expenses	176,029,454
Capital Expenditure – Set Up Costs	4,063,339
<b>Total Expenses</b>	<b>180,092,793</b>

Table 9.4.1: Budget for the Breede-Olifants CMA

#### **9.4.2 Projected revenue**

### Water use charges

The registered water uses for domestic-industrial, irrigation and forestry (streamflow reduction activities) totals 2 880 773 260 billion m<sup>3</sup>/ annum.

<b>POTENTIAL INCOME BERG</b>					
	<b>DOMESTIC &amp; INDUSTRIAL</b>	<b>AGRICULTURE</b>	<b>FORESTRY</b>	<b>TOTAL</b>	<b>AUGUMENTATION</b>
<b>Volumes</b>	541,401,324.4	819,871,933.5	4,249,076	1,365,522,334	
<b>Tariffs</b>	5.79	2.34	2.59		
<b>Income</b>	31,347,136.69	19,185,003.24	110,051.0684	50,642,191	48,725,127.11
<b>65% Collection Income</b>	20,375,638.85	12,470,252.11	71,533.19	32,917,424.15	66,449,893.96
<b>POTENTIAL INCOME BGCMA</b>					
	<b>DOMESTIC &amp; INDUSTRIAL</b>	<b>AGRICULTURE</b>	<b>FORESTRY</b>	<b>TOTAL</b>	<b>AUGUMENTATION</b>
<b>Volumes</b>	165,865,961	1,333,520,674	15,864,292	1,515,250,927	
<b>Tariffs</b>	5.48	2.49	1.27		
<b>Income</b>	9,089,454.66	33,204,664.78	201,476.51	42,495,595.95	34,166,539.99
<b>65% Collection Income</b>	5,908,145.53	21,583,032.11	130,959.73	27,622,137.37	49,039,998.57
<b>TOTAL BGCMA AND BERG</b>					
	<b>DOMESTIC &amp; INDUSTRIAL</b>	<b>AGRICULTURE</b>	<b>FORESTRY</b>	<b>TOTAL</b>	<b>AUGUMENTATION</b>
<b>INCOME</b>	40,436,591.35	52,389,668.03	311,527.5768	93,137,786.95	82,891,667.10
<b>65% COLLECTION</b>	26,283,784.38	34,053,284.22	202,492.92	60,539,561.52	115,489,892.50

Table 9.4.2: Projected Revenue

### 9.4.3 Financial support to the CMA

In addition to the establishment and commissioning grants implied there will be a need for operational support to the CMA based on capping of the agriculture/ forestry charge as well as due to the current under-recovery of charges. PPI (%) related increases have not been considered in calculating the operational support.

What is apparent from the above analysis is that the establishment costs will need to be supported by DWS.

Critically, due to the cap on the irrigation charges, operating support will be required until such time as the water use charges can be adjusted to meet the operating expenditure of the CMA. An increase in charges to full cost recovery and improved collection can close the funding gap within five years. This increase, in addition to annual CPI increase, is within the financial viability of users in the catchment to pay. The Breede Olifants CMA will require extensive and prolonged financial support from DWS until such time as full cost recovery can be collected.

<b>APPROVED WATER USE CHARGES – 2021/2022</b>			
<b>Description</b>	<b>Domestic &amp; Industrial</b>	<b>Irrigation</b>	<b>Forestry</b>
Breede-Gouritz	5.48	2.49	1.27
Berg-Olifants	5.79	2.34	2.59

Table 9.4.3 Water Use Charges

#### **9.4.4 Asset transfers**

There is unlikely to be much in the way of asset transfers from DWS to the CMA, other than the possibility of the transfer of some monitoring assets in due course, if it is deemed that they are not part of the national monitoring system to be operated and maintained by DWS. Such assets have not yet been identified or their value calculated.

## **10 Institutional and governance arrangements**

### **10.1 Corporate Governance Principles**

Although targeted at private sector institutions, the King II and III reports on corporate governance are increasingly recognised as important guides to the good governance of public entities. The King II report lists seven characteristics that constitute good corporate governance: discipline, transparency, independence, accountability, responsibility, fairness and social responsibility. Further the report refers to triple-bottom-line accounting which embraces the economic, environmental and social aspects of a corporation's activities. These are elements that are critical for good corporate governance, and are characteristics and elements that should, broadly, be reflected in the governance of the Breede-Olifants CMA.

While corporate governance in the public sector must reflect these broad principles and good corporate governance, it is also required that public sector institutions in the water sector:

- Contribute to achieving government's objectives as outlined in the twelve outcomes, the State of the Nation Address (SONA) and the Minister's performance agreement with the President.
- Achieve government's transformation objectives, relating to service delivery (Batho Pele), employment equity and preferential procurement.

The CMA as a service delivery entity must reflect and achieve the principles and elements indicated above.

## **10.2 CMA Governing Board**

### **10.2.1 Role of the CMA Board**

Based on the nature of the CMA as a public entity with service delivery and stakeholder participation elements, the board will have to have strong integrated management, financial management, legal, human resource and participatory management capabilities.

The role of CMA board will be as set out in the Act as well as the service level agreement between the Executive Authority (Minister and Department) and the Accounting Authority (CMA Board). The agreement will require a board charter that will outline the roles, functions and conduct for board members. The charter will be tailored to meet conditions in the Breede-Olifants CMA. Among a number of roles for the board the following will be included:

- Ensure that CMA contributes to the achievement of national development objectives and the strategic objectives of DWS;
- Provide financial management oversight on the CMA
- Review and monitor the CMA's performance and service delivery objectives.
- Review the performance of the CEO and senior management.
- Ensure effective stakeholder participation.
- Ensure internal systems and controls that will ensure effective decision making within the CMA.

### **10.3 Board membership**

The National Water Act sets out certain provisions regarding the membership of the governing board of a CMA:

S81(1) states that: "The members of a governing board of a catchment management agency must be appointed by the Minister who, in making such appointment, must do so with the object of achieving a balance among the interests of water users, potential water users, local and provincial government and environmental interest groups."

Two issues need to be addressed in the appointment of the new Board for the Breede-Olifants CMA. To reflect the larger WMA boundaries, a new board should be considered keeping in mind that the size of the board should be financially feasible. The issue of size of the Board should thus be addressed. The DWS guideline is that the Board should consist of between 9 and 14 members.

The second issue is that the current board is strong on stakeholder representation but weak on some of the critical skills required for exercising proper fiduciary responsibility. This is a critical matter to address to ensure the board is able to carry out its fiduciary responsibilities appropriately.

It is therefore recommended that the advisory committee, in considering the membership of the Board, should take into account:

- The DWS guideline on the proposed size of the Board and the intention to appoint a small and efficient Board; and
- The need to have specific legal, financial and human resources skills represented on the Board, in addition to the “object of achieving a balance among the interests of water users, potential water users, local and provincial government and environmental interest groups”.

#### **10.4 Process for appointment of board**

While the Act specifies the process to be followed in terms of the establishment of a CMA board, the appointment of a Board for the Breede-Olifants CMA must engage with the fact that there is an existing Breede-Gouritz CMA Board already in place. The question then becomes how to move from this existing Board to the appointment of a Board that is appropriate to the larger WMA boundaries.

The process set out in the National Water Act for the appointment of the Board is that the Minister must establish an advisory committee to advise her on “which organs of state and bodies representing different sectors and other interests within the water management area of the catchment management agency should be represented or reflected on the governing board; and the number of persons which each of them should be invited to nominate”.

The Minister may also then appoint additional members selected by herself in order to-

- represent or reflect the interests identified by the advisory committee;
- achieve sufficient gender representation;
- achieve sufficient demographic representation;
- achieve representation of the Department;
- achieve representation of disadvantaged persons or communities which have been prejudiced by past racial and gender discrimination in relation to access to water; and
- obtain the expertise necessary for the efficient exercise of the board's, powers and performance of its duties.

Under the provisions of the National Water Act, the existing BGCMA Board may continue to function until such time as a new Board has its first meeting. It is therefore recommended that:

- The current Board is allowed to continue to function until such time as the amendments to the name and boundaries of the CMA have been completed, at which time a new Board should be appointed;
- In order to ensure a smooth and swift transition, the process to nominate and appoint the new Board should begin as soon as the new WMA boundaries have been gazetted for comment, so that the new Board can be appointed as soon as the required legal procedures have been completed to amend the boundaries of the WMA and to change the name of the CMA;
- The Minister appoint one national Advisory Committee to advise on the Board membership of all nine CMAs to be established.

### **10.5 Governance Committee Structures**

As a new institution the BGCMA will have a number of institutional development tasks that may require professional support to the board, although the experience of the BOCMA will provide an excellent platform for these institutional development tasks.

It is proposed that the CMA board establish the necessary committees to support its effective functioning, in line with corporate good practice. The committees will not have powers to make decisions but to make recommendations to the board for decision making, unless they have been granted powers to make decisions in writing, by the Board. The following Board committees are recommended:

#### **10.5.1 Finance and Audit & Risk Committee**

Sometimes these are separate committees, however since the CMA is in its infant stage it is recommended that these committee be combined. The Board can decide in due course if it is appropriate to separate them. This committee will be chaired by a professional to be appointed to support the Board or by a Board member with the appropriate training and skills. The role of the audit commit will be to ensure the integrity of financial recording, management, policies and reporting of the CMA. In performing its functions, it will work closely with internal and external auditors (possibly DWS) on how best to manage auditing related challenges of the CMA.

The finance committee will be responsible for the overall financial management and financial performance of the CMA. It will be the role of the committee to provide support that will ensure CMA is in a sound financial footing. This will be done by ensuring that financial challenges are identified, measured and rectified, secondly helping in developing financial strategies that will ensure the CMA's financial viability.

#### **10.5.2 HR and Remuneration Committee**

The Human Resources Committee will provide support on organisational structure issues, conditions of employment, employment equity and staff transfer from DWS. It will help develop appropriate policies and procedures that will govern human resource related issues. Sub committees may be established to look at specific issues, such as staff contracts, job grading, remuneration, if necessary.

### **10.5.3 Technical Committee**

The Technical Committee will be tasked with supporting the CMA Board to address technical issues relating to water resource management. The WMA is made up of a number of sub-catchments; a catchment management (CMC) for each sub-catchment with at least one Board member, will be established to assist the Technical Committee to consult with and involve the stakeholders on strategic and water resources related issues.

### **10.6 Appointment of CEO**

With the increase in the size of the area falling under the CMA, the Board will need to consider the current salary level and job description of the CEO, as well as the administrative, technical and financial support provided to the CEO. The BGCMA does not currently have an appointed CEO. The Board will need to consider advertising the post of CEO in line with the expanded mandate of the CMA

It is proposed that the remuneration of the CEO should not exceed that of a Chief Director in the government service, except with the express written permission of the Minister of Water and Environmental Affairs.

## **11 Mechanisms for Regulation and Oversight**

Regulation and oversight of the CMA will be facilitated through a number of mechanisms which include the following:

- Ministerial and DWS oversight based on the legislation, policy as well as a service level agreement that will be entered into between the Minister and the CMA Board.
- The Board will be subject to an annual audit of performance, including a review of individual members' performance against clear criteria.
- Accordance with the requirements of the PFMA
- Approval of annual tariffs and the catchment management strategy as being in line with the Raw Water Pricing Strategy and the National Water Resources Strategy;
- Regulation of tariffs by an economic regulator to be established within DWS
- Approval of annual business plans by the Minister

### **11.1 CMA Business Planning**

In terms of the NWA, section 21 schedule 3, the CMA Governing Board must prepare its first business plan for not less three years within a period of 6 months of its establishment. While this has already been done by the Breede-Gouritz CMA, the development of a new business plan will need to be done for the Breede-Olifants CMA. In doing so, the new CMA can build on the experience and work done by BGCMA in this regard.



Schedule 4 section 22 of the NWA indicates the contents of the business plan (in addition to the requirements of the PFMA). The business plan must:

- set out the objectives of the institution;
- outline the overall strategies and policies that the institution is to follow to achieve the objectives;
- include a statement of the services which the institution expects to provide and the standards expected to be achieved in providing those services;
- include the financial and performance indicators and targets considered by the board to be appropriate;
- may include any other information which the board considers appropriate;
- may include any other information determined by the Minister.

In relation to financial matters the business plan must:

- outline the overall financial strategies for the institution including the setting of charges, borrowing, investment and purchasing and disposal strategies;
- include a forecast of the revenue and expenditure of the institution, including a forecast of capital expenditure and borrowings;
- provide for capacity building amongst its board members and officials;
- include any other financial information which the board considers appropriate; and
- include any other financial information determined by the Minister.

## **11.2 Financial Control**

The CMA as a public entity under schedule 3 of the PFMA will, 6 months before the start of the financial year, submit to the Executive Authority (Minister) through the DG a budget of estimated revenue and expenditure for approval. The Minister, through the department, will ensure that the submitted budget for the CMA is appropriate. DWS will be responsible for submitting the information to the Auditor General or National Treasury as and when required.

## **12 Change management**

Change management can be described as a structured approach to moving individuals or an organisation from a current state to some desired future state. Very importantly, it is process that aims to help staff to understand, accept and engage with changes in the organisational environment.

In the establishment of the Breede-Olifants CMA, the change management issues pertain particularly to the internal aspects of the organisation, but also relate to the perceptions of stakeholders of the organisation.

### **12.1 Internal change management**

In terms of internal change management, the key challenge is that the BGCMA has already been in existence for some years and has built an identity and internal culture of its own. The

structure and staffing of the organisation will now change in order to incorporate staff and responsibilities relating to the Berg-Olifants water management area.

While the staff of BGCMA have been operating in an agency environment for some time, the staff from the Western Cape DWS Regional Office who are responsible for the Berg-Olifants will bring with them the experience and habits of working in government.

The challenge to the new Board and management of the Breede-Olifants CMA will be to:

- Ensure the building of a common identity and culture amongst staff of the Breede-Olifants CMA, and that, within this, all staff feel a commitment to and identify with the new institution. It will be important to ensure that no invisible lines exist between the original BGCMA staff and the new staff from the DWS regional office that join the new entity;
- Ensure equal commitment to and attention to the different sub-catchments within the Breede-Olifants water management area, not only within business plans and budgets, with through implementation as well;
- Manage staff concerns and fears regarding change and possible resistance to change.

To achieve this, the Breede-Olifants CMA Board and management will need to develop and ensure the implementation of a proper change management strategy. Key elements of this strategy might include:

- Understanding the assumptions, risks, dependencies, and organisational cultural issues that might affect the change, and how best to address these;
- Effective communication with staff on the need for the change, the nature of the change, and the benefits of successful implementation. Such communication should also contain information on the details of the change, such as timeframes, activities, who will be involved and how it will affect them. The communication should enable a two-way communication process so that employees are able to contribute suggestions and ask questions about the process. The people affected by the change need to agree with, or at least understand, the need for change, and have a chance to influence how the change will be implemented. Face-to-face communications for sensitive elements of the change process, particularly those affecting employees' careers should be used. Email and written reports written are very poor tools in the context of major organisational change.
- A training or capacity building programme for relevant staff so that they can benefit from the change and see it in a positive light;
- Identification and countering of resistance from staff and the alignment of the staff with the new mandate of the organization;
- The provision of personal counselling (where required) to reduce and manage any change related fears;
- Monitoring of implementation and adjustment of the strategy as needed.

## **12.2 Rebranding and stakeholder engagement strategy**

It will be important to ensure that stakeholders in the water management area are fully informed about the proposed changes and about the establishment, purpose and functions of the Breede-Olifants CMA. This will require a good communication and rebranding strategy

which reaches all stakeholders, particularly the marginalised and disadvantaged. Amongst other things, the rebranding strategy should ensure that stakeholders understand the functions of the CMA, the purpose of the CMA, and how to contact the CMA.

In this process, there is an opportunity to engage with stakeholders about how they view the existing and future CMAs, what services they are expecting, what their requirements are etc so that the new CMA and the rebranding strategy can address these needs and expectations.

## **13 Risk**

### **13.1 Implementation Risks**

Given an understanding of the nature of the initiative and the purpose of establishment of the Breede-Olifants CMA, it is useful to articulate some of the key implementation risks. Managing these risks becomes a central function of the CMA and of DWS in its oversight and regulatory role.

#### **13.1.1 Complexity of the project**

This water management area is complex and is already under water stress. Management of the area will require balancing the needs of highly vocal and well-resourced sectors with poor, marginalized and water deprived communities. Management will require a high level of technical skills and understanding, as well as social and economic analysis capacity, and the ability to drive transformation in the water sector in the catchment with a particular focus on redress and meeting the needs of poor communities. The issue of capacity is dealt with below.

#### **13.1.2 Spheres of Government**

Both Local and Provincial Government have a key role to play in ensuring effective water management in the water management area. The boundaries of the water management area do not coincide with the political boundaries of provincial and local government, and the CMA will need to expend considerable effort to ensure effective relationships with relevant local authorities and provincial departments, and to ensure a proper understanding of the role, boundaries and purpose of the CMA. Buy-in, coordination and cooperation between the three spheres of government are pre-requisites for achieving optimal water management in the area. This has already been achieved to quite a large extent in the Breede-Gouritz area but will need to be addressed in the Berg-Olifants area.

#### **13.1.3 Stakeholder acceptability**

The CMA establishment puts forward a new “business model” based on a public entity for water resources management in the Berg-Olifants area, while building on the success of this model in the Breede-Gouritz area. In addition to government, it is key that this new model is accepted by stakeholders, both current water users and would-be water users across the area of jurisdiction.

#### **13.1.4 Delegation of powers and functions**

The service delivery relates to the rate at which water resources management functions are delegated to the CMA. A number of functions have already been delegated to the BGCMA. Once the boundaries of BGCMA are changed and the institution is transformed into the Breede-Olifants CMA, these delegations will automatically apply across the entire new WMA. The risk is that the capacity may not be in place to implement these delegations across the whole WMA, and so the transfer and recruitment of staff and building of capacity must be done in a way that aligns with the need to implement these delegations.

However, there is a further risk that the delegation of the final functions to the CMA may take too long, particularly the delegation of the power to authorise water use and for billing and revenue collection. An agreement should be put in place between DWS and the Breede-Olifants CMA regarding the timeframes and requirements for the final delegation of functions to the Breede-Olifants CMA.

#### **13.1.5 Financial management**

There are a number of dimensions associated with the financial viability risk. The most critical include the inability to collect water use charges as a result of either poor legitimacy of the CMA, inadequate systems and capability on the part of DWS prior to this function being delegated, or the CMA after delegation. The willingness to pay by stakeholders is a critical risk. The issue of affordability is also pertinent, in relation to user groups such as resource poor farmers. Poor revenue collection will mean that the operating costs of the CMA will need to be recovered from a small base of users and as such there is the potential for higher charges that could worsen the cycle of affordability and debt collection.

#### **13.1.6 Climate change and natural disasters**

Climate change and disasters such as droughts and floods are significant risks that could impact on the water availability and safety within the WMA. In particular the effect of climate change could lead to changing water use patterns, reduced availability and allocation of the resource, and lower ability-to-pay amongst users as enterprises become marginal. Mitigation of this risk through augmentation is limited and accordingly this risk should be quantified and considered carefully in the strategic planning of the Agency.

#### **13.1.7 Human Resources**

The human resources risk is fairly critical and has a major impact on the CMA's ability to undertake its functions effectively. A key concern is that the market for appropriately skilled WRM staff will become more competitive as other CMAs are established.

#### **13.1.8 Organisational Technologies**

The technology risks relate to the integrity of the data to be handed over by DWS. Data of poor integrity may impact on the CMA's ability to undertake its WRM functions effectively, on its financial viability and on the credibility of the CMA. Other concerns around organisational technology relate to the adoption of DWS systems, by the CMA, and the suitability or appropriateness of this technology to the CMA, given its smaller scale.

### **13.2 Risk management**

It is critical that the Breede-Olifants CMA builds its relationship with relevant institutions and stakeholder bodies in the WMA, particularly in the Berg-Olifants area where there has not been an active CMA to date. Strong stakeholder relationships, participatory planning and management, and strong governance will go a long way to reducing a number of the risks raised above.

The complex nature of the work of the CMA, including managing complex financial arrangements, requires good strategic, organisational and financial management. Such management will be achieved through appropriate staffing of the CMA and may require moving beyond the human resource and remuneration policies and approaches of government.

Ultimately, the management of risk will be dependent on strong governance arrangements for the CMA. The role of DWS in regulating and overseeing the performance of the CMA will also be important in this regard. DWS has considerable experience in the oversight of 15 Water Boards, the WRC and the TCTA, and will draw on this experience to ensure effective oversight and regulation of the CMA.

#### 14 Annexure A

Powers and functions under the National Water Act to be performed by CMAs as initial, inherent or delegated/assigned functions, and functions to remain with DWS. Functions highlighted in yellow are likely to be transferred to the CMA within phase 1 of its existence, highlighted in orange for phase 2, and in red for phase 3.

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
<b>Chapter 2: Water Management Strategies</b>			
Part 2: Establishment of a Catchment Management Strategy			Part 1: National water resource strategy Development of the National Water Resource Strategy
<b>Chapter 3: Protection of Water Resources</b>			
<b>Part 1: Classification system for water resources</b>			
			12. Prescription of classification system
<b>Part 2: Classification of water resources and resource quality objectives</b>			
		13. Determination of reserve and resource quality objectives for those resources that do not have a high protection class or are not of national significance	13 Determination of water resources and resource quality objectives
			14. Preliminary determination of class or resource quality objectives
	15. Giving effect to any determination of a class of a water resources and the		

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	resource quality objectives <i>This is premised on the CMA having the powers to take any action that will impact on the class of a resource</i>		
<b>Part 3: The Reserve</b>			
		16. In some cases, DWS may delegate the determination of the Reserve in those resources that do not have a high protection class (eg. Class I).	
			17. Preliminary determinations of Reserve
	18. A CMA must give effect to the Reserve as determined in terms of this Part when exercising any power or performing any duty in terms of this Act <i>This is premised on the CMA having the powers to take any action that will impact on the class of a reserve</i>		
	19. Prevention and remedying effects of pollution		
<b>Part 5: Emergency incidents</b>			

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	S20(4)(d) The CMA may give verbal or written instructions to a responsible person on measures to be taken regarding an emergency incident. A verbal directive must be confirmed in writing within 14 days.		
	S20(6) – (9): The CMA may take remedial action and claim for the costs of that remedial action.		
<b>Chapter 4: Use of Water</b>			
		S22(3) Once the CMA has been delegated the responsible authority functions in relation to authorising water use it may use S22(3) to dispense with the requirement for a licence if it is satisfied that the purpose of this Act will be met by the grant of a licence, permit or other authorisation under any other law. <i>This function does not need to be delegated to a CMA but is automatic along with the</i>	



Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<i>delegation of the water use authorisation function</i>	
		S22(3) Once the CMA is the responsible authority it may choose to combine licence requirements into a single licence requirement with other government departments. <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	
		S22(4): a responsible authority may promote arrangements with other organs of state to combine their respective licence requirements into a single licence requirement <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	
		S22(5): A responsible authority may,	

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<p>subject to section 17, authorise the use of water before -</p> <ul style="list-style-type: none"> <li>(a) a national water resource strategy has been established;</li> <li>(b) a catchment management strategy in respect of the water resource in question has been established;</li> <li>(c) a classification system for water resources has been established;</li> <li>(d) the class and resource quality objectives for the water resource in question have been determined; or</li> <li>(e) the Reserve for the water resource in question has been finally determined.</li> </ul> <p><i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	
			S(23): Determination of quantity of water which may be

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			allocated by responsible authority
		S24: Licences for use of water found underground on property of another person	
		S(25): Transfer of water use authorisations <i>On condition that the transfer takes place within national regulations and within the boundaries of the CMA</i>	S(25): Transfer of water use authorisations <i>Where the transfer occurs between WMAs</i>
	S25(3): Preparation of an annual report containing details of transfers of water entitlements under S25 (1) or (2)		
		S30: A responsible authority may, if it is necessary for the protection of the water resource or property, require the applicant to give security in respect of any obligation or potential obligation arising from a licence to be issued under this Act. <i>This function does not need to be delegated to a CMA but is</i>	S26: Making of regulations on use of water

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<i>automatic along with the delegation of the water use authorisation function</i>	
			S33: Declaration of water use as an existing lawful use <i>It is recommended that this clause should not be delegated and should not be utilised in future as it was intended as a transitional clause which is now out of date.</i>
		S35: Verification of existing water uses <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	
<b>Part 4: Stream flow reduction activities</b>			
		S36(2): The Minister may, by notice in the Gazette, in relation to a particular area specified in that notice, declare any activity (including the cultivation of any particular crop or other vegetation) to be a stream flow	

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		reduction activity if that activity is likely to reduce the availability of water in a watercourse to the Reserve, to meet international obligations, or to other water users significantly.	
<b>Part 5: Controlled activities</b>			
		S38: Declaration of certain activities as controlled activities <i>Within the boundaries of the WMA only</i>	S38: Declaration of certain activities as controlled activities <i>At a national level where appropriate</i>
<b>Part 6: General Authorisations</b>			
		S39: General authorisations to use water <i>Within the WMA boundaries only</i>	S39: General authorisations to use water <i>At a national level</i>
<b>Part 7: Individual applications for licences</b>			
		S40(3): A responsible authority may charge a reasonable fee for processing a license application which may be waived in deserving cases <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	S40(3): A responsible authority may charge a reasonable fee for processing a license application which may be waived in deserving cases <i>For strategic water use only</i>

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<p>S40(4): A responsible authority may decline to consider a licence application for the use of water to which the applicant is already entitled by way of an existing lawful water use or under a general authorisation. <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	<p>S40(4): A responsible authority may decline to consider a licence application for the use of water to which the applicant is already entitled by way of an existing lawful water use or under a general authorisation. <i>For strategic water use only</i></p>
		<p>S41 Procedure for licence applications: <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	
		<p>S42: Reasons for decisions <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	
<p><b>Part 8: Compulsory licences for water use in respect of specific users</b></p>			

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<p>S43: Compulsory licence applications <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	
		<p>S44: Late applications <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	
		<p>S45: Proposed allocation schedules <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i></p>	
		<p>S46: Preliminary allocation schedules <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use</i></p>	

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<i>authorisation function</i>	
		S47: Final allocation schedule <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	
<b>Part 9: Review and renewal of licences, and amendment and substitution of conditions of licences</b>			
		S49: Review and amendment of licences <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	S49: Review and amendment of licences <i>For strategic water use only</i>
		S50: Formal amendment of licences <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	S50: Formal amendment of licences <i>For strategic water use only</i>
		S51(1): Successors in title <i>This function does not need to be delegated to a CMA but is automatic along with the</i>	S51(1): Successors in title <i>For strategic water use only</i>



Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<i>delegation of the water use authorisation function</i>	
		S52 (2), (3), (4): Procedure for earlier renewal or amendment of licences <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	S52 (2), (3), (4): Procedure for earlier renewal or amendment of licences <i>For strategic water use only</i>
<b>Part 10: Contravention of or failure to comply with authorisations</b>			
		S52: Rectification of contraventions <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	S52: Rectification of contraventions <i>For strategic water use only</i>
		S54: Suspension or withdrawal of entitlements to use water <i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	S54: Suspension or withdrawal of entitlements to use water <i>For strategic water use only</i>
		S55: Surrender of licence	S55: Surrender of licence

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<i>This function does not need to be delegated to a CMA but is automatic along with the delegation of the water use authorisation function</i>	<i>For strategic water use only</i>
<b>Chapter 5: Financial provisions</b>			
			S56: Pricing strategy for water use charges
	S57(2): Application of pricing strategy: making of charges within a specific water management area and payable directly to the CMA		
			S57(3) Charges made on a national or regional basis and payable to DWS
			S58 (1): Recovery of water use charges – directive to a WMI to recover charges made by the Minister under S57(1)
			S59(3)(a): Determination of interest rate on unpaid water use charges, with the concurrence of the Minister of Finance
		S59(3)(b): Restriction of the	S59(3)(b): Restriction of the

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		supply of water to the water user from a waterwork or the restriction or suspension of the authorisation to use water until charges have been paid <i>For charges made under S57(2)</i>	supply of water to the water user from a waterwork or the restriction or suspension of the authorisation to use water until charges have been paid <i>For charges made under S57(3)</i>
		S60(2): issuing of a certificate stating the amount of unpaid water charges and any interest due <i>For charges made under S57(2)</i>	S60(2): issuing of a certificate stating the amount of unpaid water charges and any interest due <i>For charges made under S57(3)</i>
<b>Part 2: Financial assistance</b>			
		S61: Financial assistance	
			S62: Regulations on financial assistance
<b>Chapter 6: General powers and duties of Minister and Director General</b>			
<b>Part 1: Delegations, directives, expropriation, condonation and additional powers</b>			
		S63(3) Delegation of a delegated power and function to another person where the delegation by the Minister allows this	S63: Delegation of powers and functions by Minister
		S64: Expropriation of property <i>Where authorised by the Minister in writing</i>	S64: Expropriation of property
		S65: Expropriation for rehabilitation and other remedial	S65: Expropriation for rehabilitation and other remedial

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		work <i>For functions that fall under the CMA</i>	work <i>For functions that remain with DWS</i>
		S66: Condonation of failure to comply with time period <i>For functions falling under the CMA</i>	S66: Condonation of failure to comply with time period <i>For functions that remain with DWS</i>
		S67: Dispensing with certain requirements of the Act <i>Where this has been authorised under S67(1)(c)</i>	S67: Dispensing with certain requirements of the Act
		S68: Intervention in litigation	
<b>Part 2: General provisions regarding regulations</b>			
			S69: Making of regulations
			S70: Consideration of regulations
			S71(1): Rejected regulations
<b>Part 3: Powers relating to catchment management agencies</b>			
			S72: Powers and duties of catchment management agencies vest in Minister in certain circumstances
			S73: Assignment of powers and duties to catchment management agencies
			S74: Directives to water

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			management institutions
<b>Part 4: Powers of Director-General</b>			
			S75: Delegation of powers by Director-General
<b>Chapter 7: Catchment Management Agencies</b>			
			S76: Appointment of persons on contract
			S78 Procedure for the establishment of CMAs
	S79: General powers and duties of CMAs		
S80: Initial functions of CMAs (a) to investigate and advise interested persons on the protection, use, development, conservation, management and control of the water resources in its water management area; (b) to develop a catchment management strategy; (c) to co-ordinate the related activities of water users			

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
<p>and of the water management institutions within its water management area;</p> <p>(d) to promote the co-ordination of its implementation with the implementation of any applicable development plan established in terms of the Water Services Act, 1997 (Act No. 108 of 1997); and</p> <p>(e) to promote community participation in the protection, use, development, conservation, management and control of the water resources in its water management area.</p>			
			S81: Appointment of governing board of CMA
			S82(1) Convening of the first meeting of the CMA

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	S82(2): Recommendation by members of the governing board of members to be appointed as chairperson and deputy chairperson		
			S82(3): Appointment of the Chairperson and deputy Chairperson
	S82(5): Establishment of committees, including an executive committee and consultative bodies		
			S83: Removal of members from the governing board
<b>Part 3: Operation of CMAs</b>			
	S84(1): Funding of CMAs: A CMA may raise any funds required by it for the purpose of exercising any of its powers and carrying out any of its duties in terms of this Act.		
	S85: Documents relating to litigation: A CMA must provide to the Director General copies of all pleadings, affidavits and other documents in possession		

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	of the CMA relating to any proceedings instituted against the CMA		
	S86: Delegation of powers by CMA		
<b>Part 4: Intervention, disestablishment or change of water management areas of catchment management agencies</b>			
			S87: Intervention by Minister
			S88: Disestablishment of CMA
			S89: Transfer of assets and liabilities after change of water management area or disestablishment
			S90: Regulations on CMAs
<b>Chapter 8: Water User Associations</b>			
		S92: Procedure for establishment of water user associations <i>Where the WUA does not have government owned infrastructure or government guaranteed loans</i>	S92: Procedure for establishment of water use associations <i>Where the WUA has government owned infrastructure or government guaranteed loans</i>
		S95: Directives to water user associations <i>Where the WUA does not have government owned infrastructure or government guaranteed loans</i>	S95: Directives to water user associations <i>Where the WUA has government owned infrastructure or government</i>



Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			<i>guaranteed loans</i>
		Section 96: Disestablishment of water user association <i>Where the WUA does not have government owned infrastructure or government guaranteed loans</i>	Section 96: Disestablishment of water user association <i>Where the WUA has government owned infrastructure or government guaranteed loans</i>
		S97(1)(b); (4) Winding up affairs of disestablishment water user association <i>Where the WUA does not have government owned infrastructure or government guaranteed loans</i>	S97(1)(b); (4) Winding up affairs of disestablishment water user association <i>Where the WUA has government owned infrastructure or government guaranteed loans</i>
			S98 (5), (6), Transitional provisions for certain existing organisations – acceptance of proposal to transform an irrigation board into a water user association and declaration of such water user association
<b>Chapter 9: Advisory Committees</b>			
			S99: Establishment of advisory committees
			S100: Regulations regarding advisory committees

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
<b>Chapter 10: International Water Management</b>			
			S102: Establishment of bodies to implement international agreements
			S103: Governance and functions of bodies
			S106(4) The Director General must send a copy of the report to the Secretary to Parliament
			S107: Investigation of affairs or financial position of bodies
<b>Chapter 11: Government Water Works</b>			
		S109: Acquisition, construction, alteration, repair, operation and control of government waterworks <i>In relation to government waterworks pertaining to monitoring infrastructure for CMA requirements only</i>	S109: Acquisition, construction, alteration, repair, operation and control of government waterworks <i>For all government waterworks excluding CMA waterworks for monitoring purposes</i>
		S110: Consultation and environmental impact assessment <i>In relation to government waterworks pertaining to monitoring infrastructure for CMA requirements only</i>	S110: Consultation and environmental impact assessment <i>For all government waterworks excluding CMA waterworks for monitoring purposes</i>
		S111: Financing of government	S111: Financing of government

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		waterworks <i>In relation to government waterworks pertaining to monitoring infrastructure for CMA requirements only</i>	waterworks <i>For all government waterworks excluding CMA waterworks for monitoring purposes</i>
		S112: Water from government waterworks <i>For all water use other than strategic water use within the WMA</i>	S112: Water from government waterworks <i>For strategic water use, and transfers between WMAs</i>
			S113: Access to and use of government waterworks for recreational purposes
		S115: Disposal of government waterworks <i>In relation to government waterworks pertaining to monitoring infrastructure for CMA requirements only</i>	S115: Disposal of government waterworks <i>For all government waterworks excluding CMA waterworks for monitoring purposes</i>
			S116: Regulations regarding government waterworks
<b>Chapter 12: Safety of dams</b>			
			S118(2), (3), (4), (5): Declaration of a dams to be dams with a safety risk, issuing of directives and intervention

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			where directive is not complied with
			S122: Exemptions from compliance with provisions of this chapter or regulations made under this chapter
			S123: Making of regulations regarding dam safety
<b>Chapter 13: Access to and rights over land</b>			
<b>Part 1: Entry and inspection</b>			
	S124: Appointment of authorised person		S124: Appointment of authorised person
<b>Part 2: Servitudes</b>			
	S135: Ownership of waterworks on land belonging to another		S135: Ownership of waterworks on land belonging to another
	S136: Transfer of personal servitudes		S136: Transfer of personal servitudes
<b>Chapter 14: Monitoring, assessment and information</b>			
<b>Part 1: National monitoring systems</b>			
			S137: Establishment of national monitoring systems
			S138: Establishment of mechanisms to co-ordinate monitoring of water resources
<b>Part 2: National information systems on water resources</b>			

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			S139: Establishment of national information systems
		S141(b): Provision of information	S141: Provision of information
			S142: Access to information
			S143: Making of regulations for monitoring, assessment and information
<b>Part 3: Information on floodlines, floods and droughts</b>			
	S145(1): Duty to make information available to the public		S145(1): Duty to make information available to the public
		S145(2) Establishment of an early warning system <i>In relation to issue pertaining within the WMA only</i>	S145(2) Establishment of an early warning system <i>In relation to issues with an impact or cause spanning two or more WMAs.</i>
<b>Chapter 15: Appeals and dispute resolution</b>			
			S146: Appointment of members of the Tribunal, determination of conditions of employment of members of Tribunal and termination of membership of Tribunal
			S147: Operation of Tribunal – provision of support to the Tribunal by the Department

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			S150: Mediation: directives by the Minister for persons to settle disputes by mediation
<b>Chapter 16: Offences and remedies</b>			
	S155: Interdict or other order by High Court – CMA may apply to the High Court for an interdict against a person who has contravened the Act		S155: Interdict or other order by High Court – the Minister may apply to the High Court for an interdict against a person who has contravened the Act
<b>Chapter 17: General and transitional provisions</b>			
	S159: Effect of delegation: Delegation of a power does not prevent the exercise of that power by the person who made the delegation; delegation may be made subject to conditions;		S159: Effect of delegation: Delegation of a power does not prevent the exercise of that power by the person who made the delegation; delegation may be made subject to conditions;
<b>Schedule 3: Powers which may be exercised and duties to be performed by CMAs on assignment or delegation (Sections 72, 73 and 151(1)(l))</b>			
		Schedule 3(2): Power to manage, monitor, conserve and protect water resources and to implement catchment management strategies. A catchment management agency may	

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		<ul style="list-style-type: none"> <li>(a) manage and monitor permitted water use within its water management area;</li> <li>(b) conserve and protect the water resources and resource quality within its water management area;</li> <li>(c) subject to the provisions of the Act, develop and operate a waterwork in furtherance of its catchment management strategy;</li> <li>(d) do anything necessary to implement catchment management strategies within its water management area; and</li> <li>(e) by notice to a person taking water, and after having given that person a reasonable opportunity to be heard, limit the taking of water in terms of Schedule 1.</li> </ul>	
		Schedule 3(3): Catchment management agencies may make rules to regulate water use	

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
		Schedule 3(4): CMA may require establishment of management systems	
		Schedule 3(5): CMA may require alterations to waterworks	
		Schedule 3(6): CMA may temporarily control, limit or prohibit use of water during periods of water shortage	
<b>Schedule 4: Management and planning of water management institutions</b>			
<b>Part 1: Governing Board</b>			
	Schedule 4(1): Functions and powers of governing board		
	Schedule 4(3): Appointment of CEO by Board		
	Schedule 4(3): Removal of CEO by Board		Schedule 4(3): Directive to Board to remove CEO
			Schedule 4(8): Recovery of improper profits
	Schedule 4(9): Convening meetings of the Board		
	Schedule 4(10): Notices of meetings.		
	Schedule 4(15): Minutes of Board meetings		



Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	Schedule 4(16) Participation in meetings		
	Schedule 4(17): Resolutions without meetings		
	Schedule 4(18): Execution of documents		
	Schedule 4(19): Appointment of committees by the Board		
	Schedule 4(20): Power to regulate its own proceedings subject to Part 3 of Schedule 4		
<b>Part 4: Institutional Planning</b>			
	Schedule 4(21): Preparation of business plans by the Board		
			Schedule 4(21): Power of Minister to issue directive to Board to review and revise a business plan
			Schedule 4(22): Determination of form of the business plan of a CMA
	Schedule 4(25): Submission of business plan to Minister		
			Schedule 4(25): Minister may make comments on the business plan

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	Schedule 4(25)(3): Board to consult with Minister and revise business plan according to changes agreed between it and the Minister		
			Schedule 4(25)(4): Minister may direct the Board to include or omit any matter from a business plan
	Schedule 4(26): Board to inform Minister of significant events that might prevent or materially affect achievement of the objectives of the institution		
			Schedule 4(28): Minister may require information from the Board
<b>Part 5: Monitoring and Intervention</b>			
			Schedule 4(29)(2): Minister may appoint a person to investigate the affairs or financial position of an institution
			Schedule 4(30): The Minister or a person authorised by the Minister may enter premises of

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
			an institution and take any book, record or asset of the institution where this is necessary to obtain information
<b>Part 6: Records and reporting</b>			
	Schedule 4(32): Board must ensure proper financial records and accountability		
	Schedule 4(33): Preparation and submission of annual report to Minister and tabling in Parliament		
<b>Schedule 6: Water Tribunal</b>			
<b>Part 1: Water Tribunal Members</b>			
			Schedule 6(3): Nominations for appointment to the Water Tribunal
<b>Part 2: Lodging and hearing of appeals and applications</b>			
	Schedule 6(5)(3): A CMA against whose decision or offer an appeal or application is lodged must within a reasonable time - (a) send to the Tribunal all documents relating to the matter, together with the		Schedule 6(5)(3): A responsible authority against whose decision or offer an appeal or application is lodged must within a reasonable time - (a) send to the Tribunal all documents relating to the matter, together with the

Initial Function of CMA	Inherent function of CMA under the NWA	Function of CMA to be assigned or delegated by Minister	Ongoing Function of DWS
	<p>reasons for its decision; and (b) allow the appellant or applicant and every party opposing the appeal or application to make copies of the documents and reasons.</p>		<p>reasons for its decision; and (b) allow the appellant or applicant and every party opposing the appeal or application to make copies of the documents and reasons.</p>

