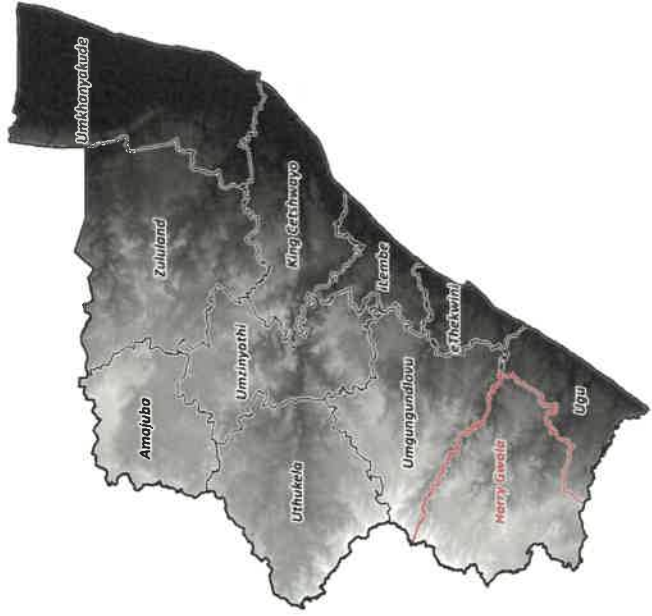
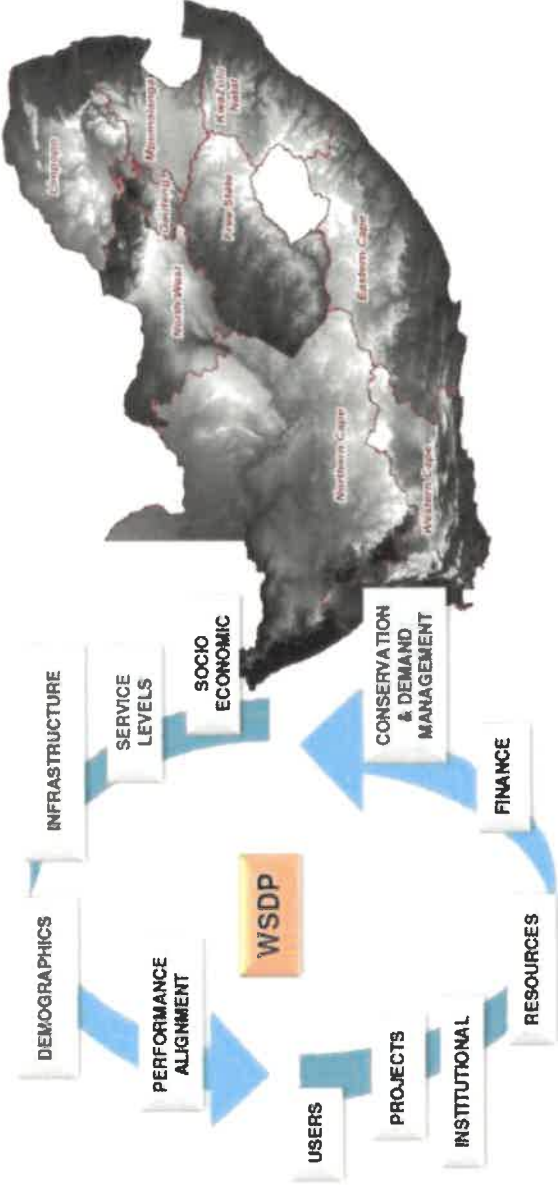


# Water Services Development Plan Audit Report



## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA



## Harry Gwala Municipality

Structure Document:  
August, 2024

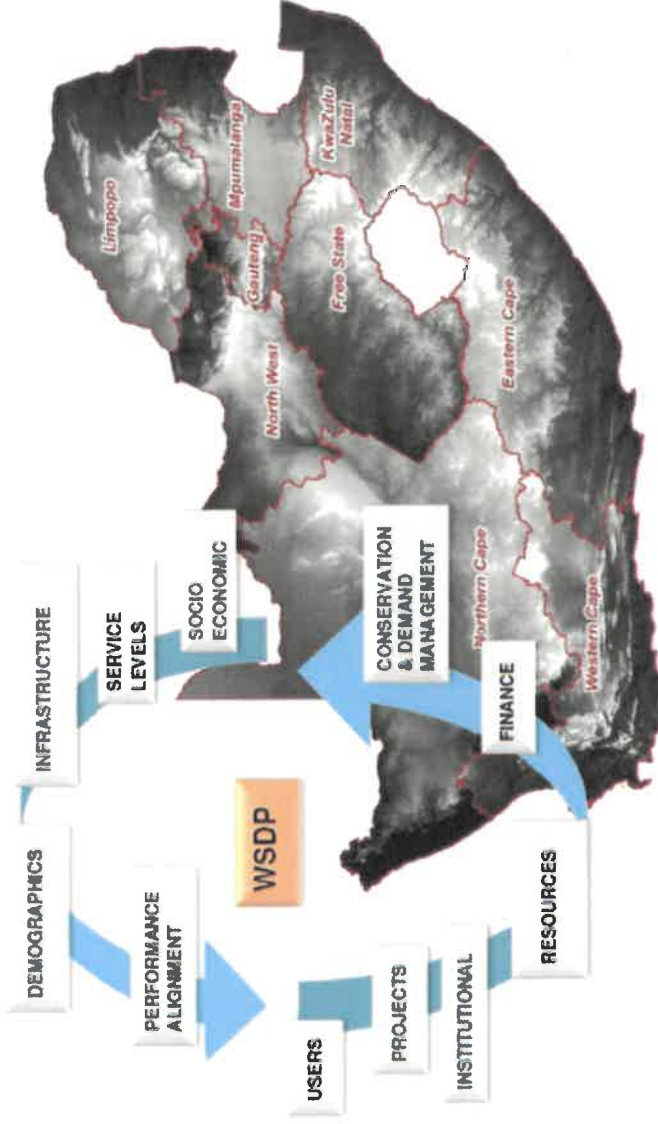


# Water Services Development Plan Audit Report



## water & sanitation

Department:  
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REPUBLIC OF SOUTH AFRICA



## AUDIT CATEGORY

1 Water Services Status:  
Total Water Services Profile

2 Institutional Vulnerability Assessment on Ability to Supply Reliable Services

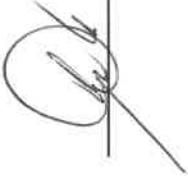
3 Planned versus Implemented

4 Service Reliability Progress


5 Regulatory Compliance

6 Planning Maturity Status


**WSDP Compiled and submitted for approval**

Municipal WSDP Coordinator: Name: LINDUMUSA GWALA Signature:  Date: 29/08/2024

**WSDP Recommended for approval**

Municipal Manager Recommended: Name: G.M. SINECE Signature:  Date: 29/08/2024

**Final Council approval**

Capacity: DISTRICT SPEAKER Name: MSD MDUNGC Signature:  Date: 30/08/2024

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Executive Summary

## Harry Gwala Municipality

Population: 532,137  
 Households: 123,239  
 Average household size: 4.30

### i Infrastructure Status

Households	%
Served with Infrastructure	50.2
Under-Served	11.65
Served	49.82
% People experiencing Functionality problems	0.00
% People experiencing Source problems	6.28
% Reliable Service : Water	48.94
% Reliable Service : Sanitation	93.72
<b>Facilities Adequate (water)</b>	%
Health Facilities:	43.28
Education Facilities:	29.74

### ii Regulation Compliancy

	%
Facilities with Blue Drop Status (WWTW):	100
Facilities with Green Drop Status (WWTW):	92



### iii Institutional ability to Supply Reliable Services

Overall Institutional Reliability (MUSSA Vulnerability): 71.56 %  
 Institutional Planning Ability (WSDP Compliancy): 83.49 %

### iv Financial

Project Implementation Financial Status	Water (RM)	Sanitation (RM)	Total (RM)	Operation and Maintenance/Revenue	Value (RM)
Total Grant Funding Received	R335.7	R14.1	R349.8	Actual O&M Budget Requirement based on Infrastructure Components Value	TBC
Value of projects listed	R335.7	R14.1	R349.8	O&M Budget	TBC
				Actual O&M Expenditure	TBC
<b>INCOME</b>					
				Population Indigent %	22
				Non-revenue water %	26.26
				Potential Loss of Income due to Non-revenue water	R33,069,000

# 1. Water Services Status

## Total Water Services Profile

Population:	532,137
Households:	123,239
Average household size	4.30
Reliable Service	48.94

## Settlements

Settlement Type	Settlements	Population	Households	Served	Un Served	Underserved	% People experiencing Functionality Problems (Households)	% People experiencing Source Problems (Households)
Rural - Small Village <= 5000	483	299,354	70,529	40.69	59.31	16.11	0.00	7.89
Rural - Dense Village > 5000	2	16,013	3,270	85.84	14.16	6.15	0.00	5.78
Rural Scattered	159	86,771	20,670	24.33	75.67	6.76	0.00	5.22
Urban - Former Township	4	2,643	639	35.21	64.79	4.23	0.00	0.00
Farming	28	35,837	8,124	73.20	26.80	6.30	0.00	1.92
Urban - Formal Town	148	91,519	20,007	88.01	11.99	4.82	0.00	3.76
<b>Total</b>	<b>824</b>	<b>532,137</b>	<b>123,239</b>					

## Associated Services

Main Fac Type	Fac Type	Total	Served	% Served	% Underserved
Health Facilities	Clinics	35	7	20.00	80.00
Health Facilities	Health Centers	24	14	58.33	41.67
Health Facilities	Hospitals	8	8	100.00	0.00
Educational facilities	Combined	66	21	31.82	68.18
Educational facilities	Primary School	206	94	45.63	54.37
Educational facilities	Secondary School	44	27	61.36	38.64
Educational facilities	Special Needs	2	2	100.00	0.00
Educational facilities	Tertiary	1	0	0.00	100.00

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Total ·

386

173

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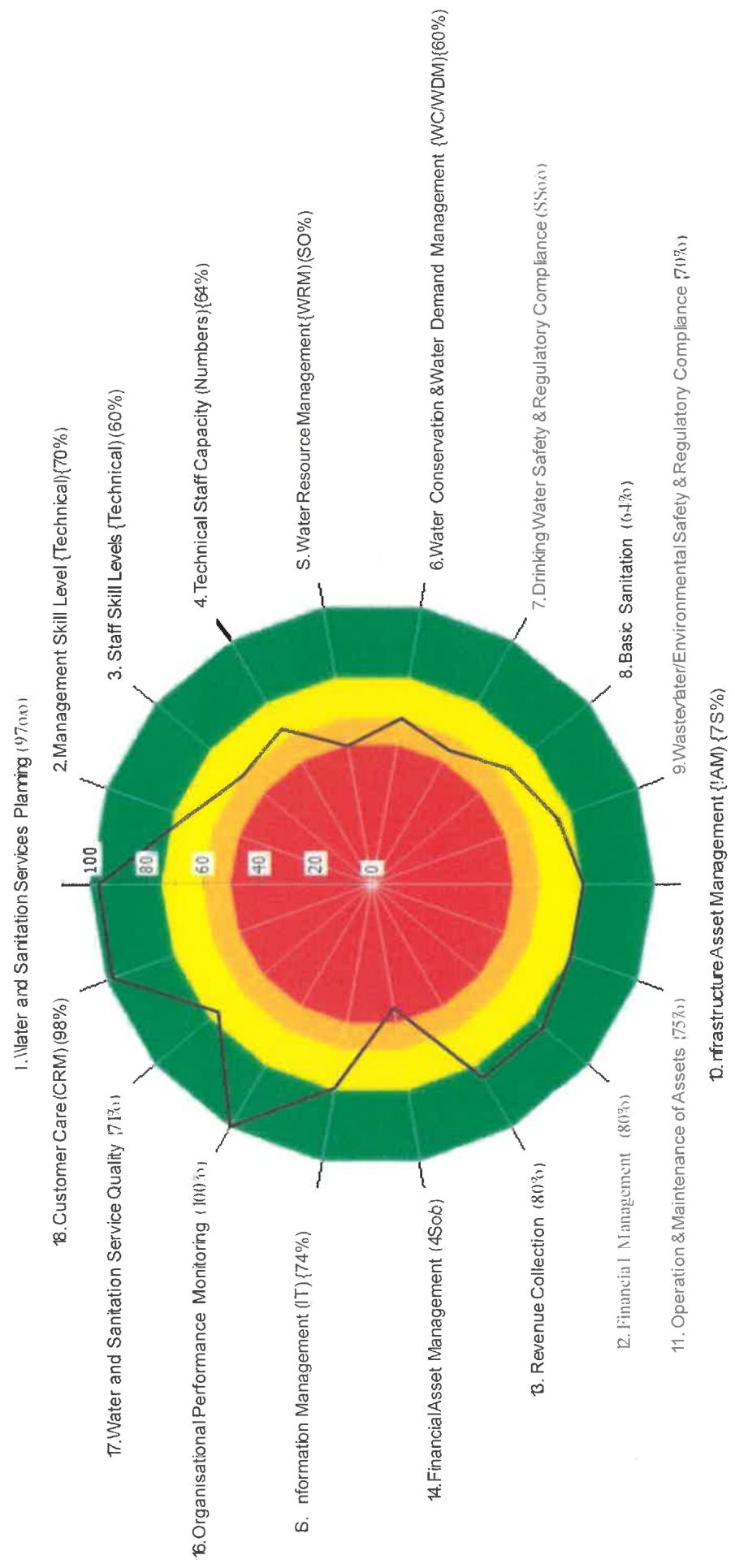
# 2. Institutional Vulnerability Assessment on ability to Supply Reliable Services

Overall Vulnerability Index

0.54 for Year: 2023

Municipal Strategic Self-Assessment of Water Services (MuSSA)

A: 75 - 100% (Low Vulnerability) B: 60 - 75% (Moderate Vulnerability) C: 50 - 60% (High Vulnerability) D: 0 - 50% (Extreme Vulnerability)



# 3. Planned Projects Versus Implemented Projects & Expenditure Audit

## Implementation Activity Chart of current MTEF Projects (MIG)

Project Title	Local Municipality	Project Type (Water, Sanitation, Roads, Sportsfields Community Halls, Creches, Public Lighting, Other)	Authorisation EA, WULA, DSR, Wayleaves and Sector Endorsements (Y/N) List as applicable	Project Status (Initiation, Prefeasibility, Feasibility, Design, Tender, Site Handover, Construction <=25%, <=50%, <=75%, <=89%, Completed, Retention, Closeout)	Total planned expenditure on MIG funds for 2024/25	Total planned expenditure on MIG funds for 2025/26	Total planned expenditure on MIG funds for 2026/27
<b>Municipal Infrastructure Grant (MIG)</b>							
<b>Ubuhebezwe LM</b>					<b>13 340 432.90</b>	<b>17 890 765.90</b>	<b>0.00</b>
Mahele Water Scheme	UBU	Water	N	Feasibility	13 340 432.90	17 890 765.90	0.00
<b>Urmzimkhulu LM</b>							
Greater Summerfield Water Supply Scheme Phase 2 (Ward 15)	NMZ	Water	Y	Construction	53 943 443.80	224 337.49	0.00
Greater Summerfield Water Supply Scheme Phase 3 (Ward 17, 19 and 20)	NMZ	Water	N	Feasibility	10 726 401.00	1 376 890.80	33 000 000.00
Greater Mngweni Water Supply Scheme Phase 5 and 6 : Rising Main to Gugwini	NMZ	Water	Y	Feasibility	13 326 775.90	10 000 000.00	22 300 000.00
<b>Greater Kokstad LM</b>							
Raising of Kempstale Dam Wall Project (Phase 1)	GKM	Water	Y	Tender	60 827 372.36	44 365 010.55	64 365 010.55
Mahhagu Sanitation Project	GKM	Sanitation	N	Feasibility	10 639 321.00	0.00	0.00
<b>Dr Nkosazana Dlamini-Zuma LM</b>							
Creighton Water Supply Scheme Phase 2	NDZ	Water	Y	Construction	49 133 322.47	70 694 748.80	0.00
Sub Regional Scheme: Khukhula: Portion 3, Rising Main (Ward 05)	NDZ	Water	N	Design	24 392 335.00	38 607 685.00	0.00
Underberg-Himmeville Sewer Upgrade	NDZ	Sewer	Y	Initiation	3 500 000.00	10 000 000.00	29 800 000.00
<b>ALL</b>							
PMU2024/25	ALL	N/A	N	Not registered	13 455 895.57	72 054 561.46	129 051 889.45
Operations and Maintenance Allocation	ALL	Water & Sewerage	N	Initiation	6 332 125.00	6 631 350.00	6 962 917.50
Infrastructure Asset Management Allocation	ALL	Water & Sewerage	N	Initiation	1 000 000.00	23 634 634.10	27 851 670.00
Harry Gwala DM Water Conservation and Water Demand Management Project	ALL	Water	N	Initiation	823 470.57	24 384 172.75	24 339 728.79
Harry Gwala District Municipality VIP	ALL	Sanitation	N	Initiation	1 450 000.00	5 000 000.00	35 928 014.86
<b>Totals</b>					<b>253 285 000.00</b>	<b>265 254 000.00</b>	<b>278 516 700.00</b>



## Implementation Activity Chart of current MTEF Projects (RBIG)

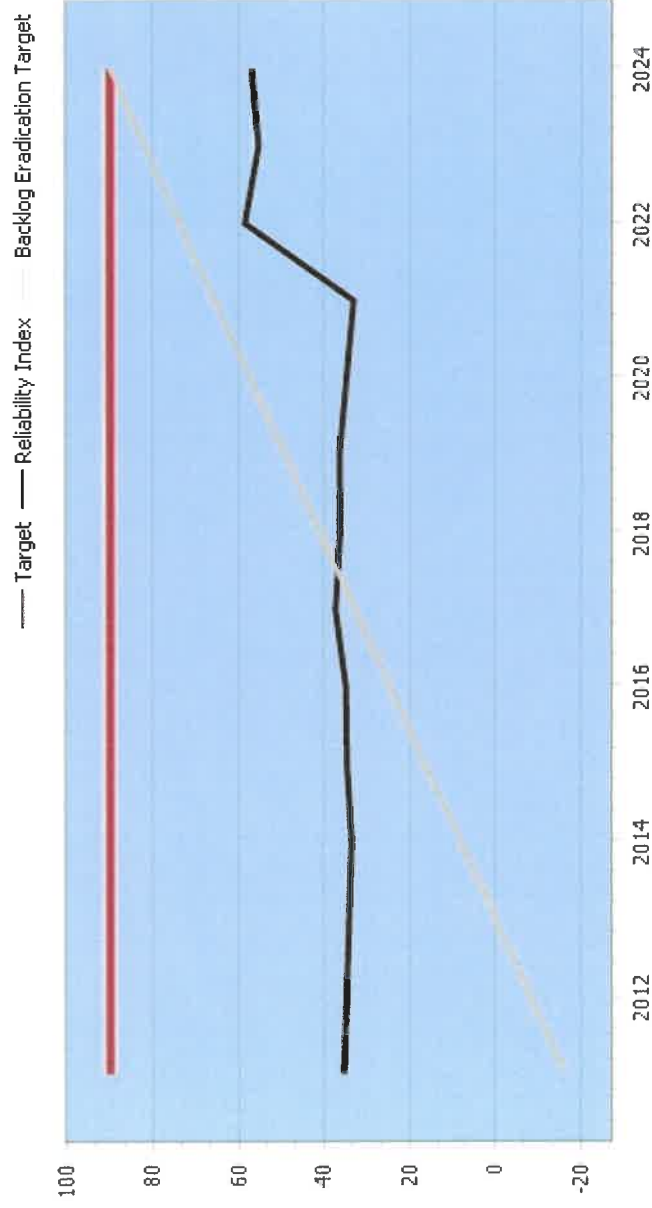
Project Title	Local Municipality	Project Type (Water, Sanitation, Roads, Sportsfields, Community Halls, Creches, Public Lighting, Other)	Authorisation EIA, WULA, DSR, Wayleaves and Sector Endorsements (Y/N) List as applicable	Project Status (Initiation, Prefeasibility, Feasibility, Design, Tender, Site Handover, Construction <=25%, <=50%, <=75%, <=99%, Completed, Retention, Closeout)	Total planned expenditure on MIG funds for 2024/25	Total planned expenditure on MIG funds for 2025/26	Total planned expenditure on MIG funds for 2026/27
<b>Water Services Infrastructure Grant (WSIG)</b>							
<b>Ubuthebezwe LM</b>							
Emazizini Water Supply	UBU	Water	N	Construction	1 386 860.00	1 454 816.00	1 526 102.00
Refurbishment of Bhayi - Gudlucingo Water Supply Scheme	UBU	Water	N	Construction	821 040.00	861 271.00	903 473.00
Nokweja/Mashumi Community Water Supply Scheme	UBU	Water	N	Construction	867 631.00	910 145.00	954 742.00
<b>Umsimkhulu LM</b>							
Corinth Nyanisweni Water Supply Scheme	UMZ	Water	Y	Planning	434 782.00	456 086.00	478 425.00
Machunwini Water Supply Scheme	UMZ	Water	Y	Planning	9 304 347.00	9 760 260.00	10 238 513.00
Hostela-Mincweba Water Supply Scheme	UMZ	Water	Y	Construction	1 292 573.00	1 355 909.00	1 422 349.00
Dulathi-Marhewini Water Supply Scheme	UMZ	Water	N	Design	434 782.00	456 086.00	478 435.00
KwaNjunge/Raloti Refurbishment/Upgrade	UMZ	Water	N	Design	434 782.00	456 086.00	478 435.00
Nazareth-Mfulamhle Water Supply Scheme	UMZ	Water	N	Design	434 782.00	456 086.00	478 435.00
<b>Greater Kokstad LM</b>							
Refurb / Upgrade of Bhongweni Infrastructure	GKM	Water	N	Design	28 237 747.00	29 621 396.00	31 072 845.00
Refurb / Upgrade of Shayamoya Infrastructure	GKM	Water	N	Design	35 481 102.00	32 958 807.00	43 356 397.00
<b>Dr Nkosazana Dlamini-Zuma LM</b>							
Mkhohlwa-Mdayane Water Supply Scheme	NDZ	Water	Y	Design	7 826 086.00	8 209 565.00	8 611 833.00
<b>Totals</b>					<b>86 956 514.00</b>	<b>86 956 513.00</b>	<b>99 999 984.00</b>

**Implementation Activity Chart of current MTEF Projects (WSIG)**

Project Title	Local Municipality	Project Type (Water, Sanitation, Roads, Sportsfields Community Halls, Creches, Public Lighting, Other)	Authorisation EIA, WJLA, DSR, Wayleaves and Sector Endorsements (Y/N) List as applicable	Project Status (Initiation, Prefeasability, Feasibility, Design, Tender, Site Handover, Construction <=25%, <=50%, <=75%, <=99%, Completed, Retention, Closeout)	Total planned expenditure on MIG funds for 2024/25	Total planned expenditure on MIG funds for 2025/26	Total planned expenditure on MIG funds for 2026/27
Regional Bulk Infrastructure Grant (RBIG)							
Dr Nkosazana Dlamini-Zuma LM							
Grater Bulwer-Donnybrook Water Supply Scheme	NDZ	Water	Y	Planning	9 603 940.24	10 004 279.88	10 004 276.88
<b>Totals</b>					<b>9 603 940.24</b>	<b>10 004 279.88</b>	<b>10 004 276.88</b>

# 4. Water Services Reliability Provision

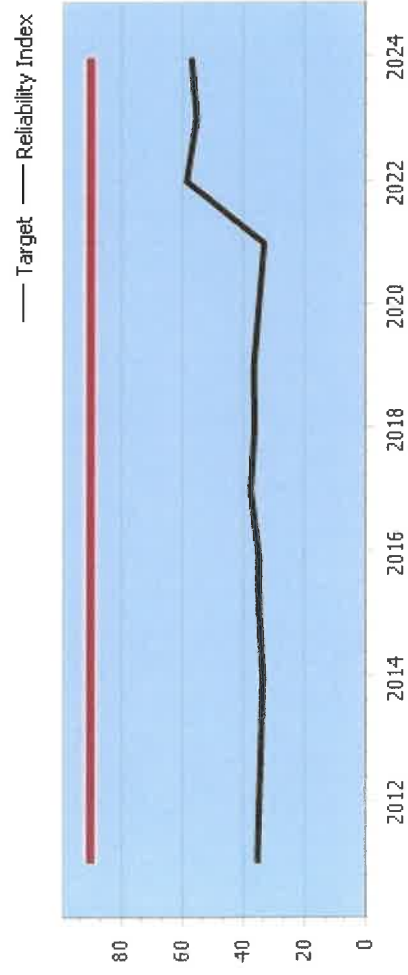
Actual Progress versus Required Achievements



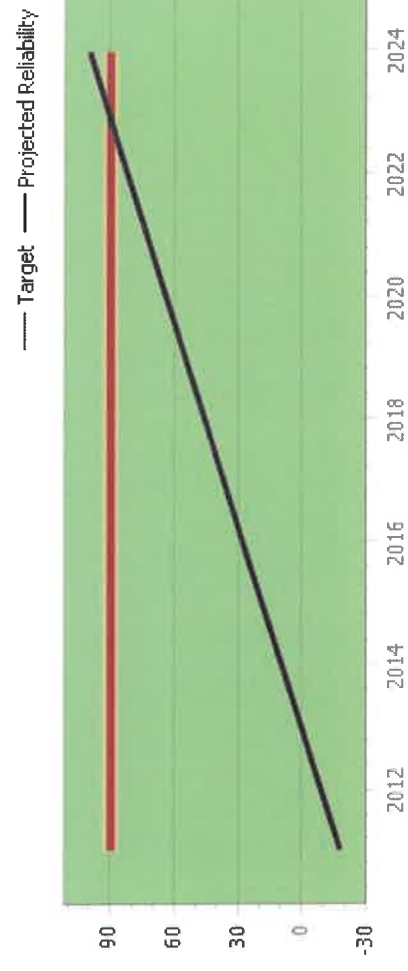
Water	2011	2016	2021	2022
Water	35.26	34.79	32.99	58.39

Sanitation	2011	2016	2021	2022
Sanitation	40.00	27.20	72.70	81.80

## Water



## Sanitation



# 5. Regulatory Compliance

## Audit Service Standard compliance against DWS Regulation Standards

Legend: % Score  
100%  
80 - 90%  
<80

Component	Total Number	Assessed	Compliant (Blue Drop/Green Drop/ Status)	Status
WTW	22	22	66.18%	<80
WWTW	12	11	65.8%	<80

# 6. Planning Maturity Status

## 6.1. Water Services Service Levels (Needs)

Business Element Report/Items	% Score	Intervention Required	%	Solution description as defined by topic situation/assessment	%	Is there an Existing project addressing this problem	%	Does this current listed project address the problem totally?	%	Project Approved by Council as part of WSDP Database?	%	Approved by council, in project database and part of 5 yr IDP cycle projects	%	Project listed in 3 yr MTEF - cycle	%	Total Points	Current Demand Overall Scoring%
Direct Backlog Water	95	Yes	100	Masterplan to assess backlog areas needs to be completed and regional supply needs to be developed and implemented. Areas that are below RDP level water supply needs to be supplied via new schemes or regional schemes	100	Yes	100	No	0		0		0		0	300	42.86
Water Services Infrastructure Supply Level Profile	90.5	Yes	100	Areas that are below RDP level water supply needs to be supplied via new schemes or regional schemes	100	Yes	100	No	0		0		0		0	300	42.86
Sanitation Service Infrastructure Supply Level Profile	92.8 5714 2857 1429	Yes	100	Areas that are below RDP level sanitation supply (VIP) needs to be serviced with either VIPs or waterborne sanitation.	100	Yes	100	No	0		0		0		0	300	42.86
Water Services: Education	95	Yes	100	The service levels of each of the facilities need to be investigated and assessed. Facilities with backlogs need to be properly serviced.	100	Yes	100	No	0		0		0		0	300	42.86
Sanitation Services: Education	95	Yes	100	The service levels of each of the facilities need to be investigated and assessed. Facilities with backlogs need to be properly serviced.	100	Yes	100	No	0		0		0		0	300	42.86
Health and Educational Facilities	97.5	Yes	100	The service levels of each of the facilities need to be investigated and assessed. Facilities with backlogs need to be properly serviced.	100	Yes	100	No	0		0		0		0	300	42.86
Direct Backlog Sanitation	95	Yes	100	Proper investigation needs to be completed regarding sanitation provision and backlog reduction. Areas that are below RDP level sanitation supply (VIP) needs to be serviced with either VIPs or waterborne sanitation.	100	Yes	100	No	0		0		0		0	300	42.86

Water Reliability Profile	88.8 4615 3846 1538	Yes	100	100	Yes	100	No	0	0	0	0	0	0	300	42.86
Sanitation Reliability Profile	85.4 5454 5454 5455	Yes	100	100	Yes	100	No	0	0	0	0	0	0	300	42.86
Water Services: Health	95	Yes	100	100	Yes	100	No	0	0	0	0	0	0	300	42.86
Sanitation Services: Health	95	Yes	100	100	Yes	100	No	0	0	0	0	0	0	300	42.86

# 6. Planning Maturity Status

## 6.2. Water Services Infrastructure Management

Business Element Report Items	% Score	Intervention Required	%	Solution description as defined by topic situation assessment	%	Is there an Existing project addressing this problem	%	Does this current listed project address the problem totally?	%	Project Approved by Council as part of WSDP Database?	%	Approved by council, in project database and part of 5 yr IDP cycle projects	%	Project listed in 3 yr MTEF - cycle	%	Total Points	Current Demand Overall Scoring %
3.1 General Information	0	Yes	100	The WSA should improve the asset management plan and develop a plan to manage untreated effluent.	100	Yes	100	Yes	100	Yes	100	No	0	No	0	500	71.43
3.2 Operation	0	Yes	100	The WSA to do proper assessment of security incidents and safety inspections performed	100	Yes	100	No	0	No	0	No	0	No	0	300	42.86
3.3 Functionality Observation	71.81 81818 18181 8	Yes	100	Proper replacement, refurbishment and new development costs needs to be determined for all the water and sanitation infrastructure in Harry Gwala. There is also a need to determine the general physical condition of the infrastructure.	100	Yes	100	Yes	100	Yes	100	No	0	No	0	500	71.43
3.4 Asset Assessment Spectrum	0	Yes	100	The expected lifespan on the infrastructure should be determined based on the age and the condition of the infrastructure.	100	Yes	100	Yes	100	Yes	100	No	0	No	0	500	71.43
3.5 Water and Sanitation schemes	8	Yes	100	Investigate and implement more regional water and sanitation schemes. Blue and green drop reports should be done for outstanding treatment works	100	No	0	No	0	No	0	No	0	No	0	200	28.57

# 6. Planning Maturity Status

## 6.3.(a). Conservation & Demand Management - Water Balance

Business Element/Report Items	% Score	Intervention Required	%	Solution description as defined by topic situation assessment	%	Is there an Existing project addressing this problem	%	Does this current listed project address the problem totally?	%	Project/Approved by Council as part of WSDP Database?	%	Approved by council, in project database and part of 5 yr IDP cycle projects	%	Project listed in 3 yr MTEF cycle	%	Total Points	Current Demand Overall Scoring %
5.1 Reducing unaccounted water and water inefficiencies	42	Yes	100	WC&DM Programmes and interventions (Reducing unaccounted water and water inefficiencies) to be implemented to ensure compliance by the WSA.	100	No	0	No	0	No	0	No	0	No	0	200	28.57
5.2 Leak and meter repair programmes.	0	Yes	100	WC&DM Programmes and interventions (Leak and meter repair programmes.) to be implemented to ensure compliance by the WSA.	100	No	0	No	0	No	0	No	0	No	0	200	28.57
5.3 Consumer/end-use demand management: Public Information & Education Programmes	67.5	Yes	100	WC&DM Programmes and interventions (more public awareness and education programmes) to be implemented to ensure compliance by the WSA.	100	No	0	No	0	No	0	No	0	No	0	200	28.57
5.4: Conjunctive use of surface - and groundwater	0	Yes	100	WC&DM Programmes and interventions to be implemented (artificial recharge and rainwater harvesting investigation and monitoring) to ensure compliance by the WSA.	100	No	0	No	0	No	0	No	0	No	0	200	28.57
5.5 Working for Water	80	Yes	100	WC&DM Programmes and interventions (alien vegetation removing programs) to be implemented to ensure compliance by the WSA.	100	No	0	No	0	No	0	No	0	No	0	200	28.57
5.2 Water Balance	0	Yes	100	Implement strategies as contained in NRW report compiled by JOAT. Especially regarding metering of sources and consumers (metering of standpipes etc.)	100	No	0	No	0	No	0	No	0	No	0	200	28.57

## 6.3.(b). Conservation & Demand Management - Water Balance



5.2.1 Amount of surface water purchased.	
5.2.2 Amount of surface water abstracted.	
5.2.3 Amount of ground water abstracted.	
5.2.4 Amount of raw water supplied.	
5.2.5 Total influent of water to water treatment plants.	100
5.2.6 Total water treated at water treatment plants.	
5.2.6A Potable water sent to neighbours.	
5.2.7 Total amount of treated water purchased.	
5.2.7A Amount of untreated water pumped directly into reticulation system.	
5.2.8.1 Amount of billed and metered water consumed.	100
5.2.8.2 Amount of billed, but not metered, water consumed.	
5.2.8.3 Amount of unbilled metered water consumed.	
5.2.8.4 Amount of unbilled and unmetered water consumed.	100
5.2.8.5 Apparent loss of water.	100
5.2.8.6 Real loss of water.	100
5.2.8.2.1 Water is billed for based on a flat rate tariff (i.e. not based on a meter reading).	
5.2.8.2.2 Free basic water used through unbilled unmetered stand pipes or yard connections.	
5.2.8.5.1 Water used through illegal connections.	
5.2.8.5.2 Water used but not billed for because of inaccurate meters.	
5.2.8.5.3 Water used but not billed for because of data transfer errors, low estimated readings or any administrative errors.	
5.2.9 Total amount of water received at waste water treatment works.	
5.2.11 Total amount of water discharged from waste water treatment works.	
5.2.12 Other	
5.2.13 Amount of water returned to the environment.	
5.2.14 Amount of recycled water supplied.	