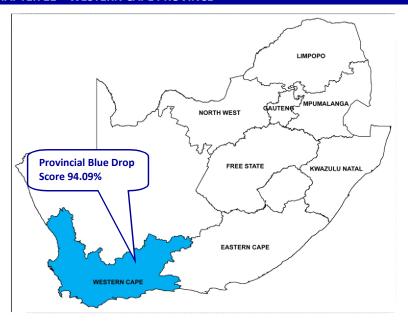
CHAPTER 11 – WESTERN CAPE PROVINCE



Provincial Best Performer

City of Cape Town Metropolitan Municipality is the best performing municipality in Western Cape Province:

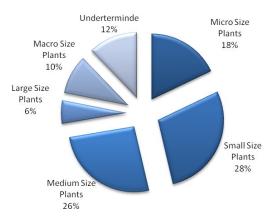
✓ 97.61% Municipal Blue Drop Score

WESTERN CAPE
 Page 1

Introduction

W der services de Ivery is perform edby t wenty nine (29) W der Services Authorities in W etern Cape via 123 drinking water supply system s The respective municipalities and the Overberg W der Board are the min W der Services Provider in W etern Cape.

Distribution of Water Supply Systems in Western Cape



A totald esign capacity of 2663 is available for drinking water supply in Western Cape Province, distributed over 123 supply system is Operationald at a is not available for all system is however the existing data indicates operating capacities between 13 and 111% This result in an average output volume (final water) of approximately 1646 M / day.

	M ICRO SI ZE <0. 5 M ∜day	SIZE 0.5-2 M. ∜day	M ED N SIZE 2-10 M ∜day	SIZE <10-25 M ∜day	M ACRO SIZE >25 M & day	Undet er- m hed	Total
Supp i Systen s	22	35	32	7	12	15	123
Vo bn e(M €/day)	4. 19	35. 5	138.7	101. 4	2383. 7	N	2663. 4
Operating Capacity (%)	64. 8	74. 1	68. 7	50. 4	50. 9	N	61.8
(M ∜day)	2.7	26. 3	95. 3	51.1	1213. 3	N	1646

N/A = Not Applicable NI = No Information

Provincial Blue Drop Analysis

Analysis of the Blue Drop assessments and site inspection results indicate that performe accevary from excellent too good. A totabf 100% municipalities were assessed during the 2010/11 Blue Drop Certification.

BLUE DE	ROP COMPARA	TIVE ANALYSIS		
Performance Category	2009	2010	2011	Performance trend
Inc	centive-based in		E7 (O. E7)	
Number of municipalities assessed		(100%)	(100%)	→
Number of water systems assessed	87	109	123	↑
Number of Blue Drop scores ≥50%	(65. 5%)	(80.7%)	(77. 2%)	↑
Number of Blue Drop scores <50%	(34.5%)	(19.3%)	(22.8%)	→
Number of Blue Drop awards	11	14	29	1
PROVINCIAL BLUE DROP SCORE	60. 32%	92. 45%	94. 09%	N/ A

N/A = Not applied

 \uparrow = improvement, \downarrow = digress, \rightarrow = no change

A tota bf 123 systen swere assessed in 2011 cm pared to the 109 systen sin 2010. Readers need to be mindfulh o wever, that large systen sm ay have subdivided to form severals m der systen s whist

sn der systen s m ay have collapsed to form one larger supply systen .

The 100% assesm ent coverage serves to aff in the continued con m to et by Western Cape municipalities to provide reliable and un interrupted water supply to conson es. Through the Dr op process, m unicipalties are renewing their operationabase hes and reprortise their plans with the prim ary objective of the ra is ing current

perform ance status in term s

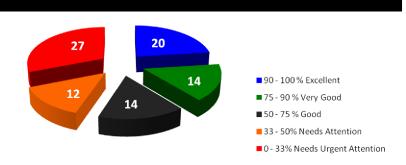
Trend Analysis: Provincial Blue Drop Score – Years 2009 to 2011

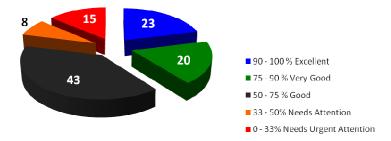
of munitipal trinking water quality management. The incentive-based regulatory approach succeeds to act as a positive stimulus to facilitate in proved performance and publical countability, whilst establishing essential system sand processes to <u>sustain</u> and <u>messure</u> gradual improvement. The trends analysis indicate that Western Cape munitipalities are succeeding in its strive to improve and maintain the Provincia Blue Drop score over a period of three years. The provincial scores increased from 60.3 (2009) to 92.5 (2010) to 94.1% in 2011. This trend gives the province the well deserved the of the most progressive improvement over 3 operationally ears, raising the 2009 status by a remarkable 34%. The most marked achievement is possibly the 29 Blue Drop scores in the Province, which is confiming that the Province is moving into a position of strength.

Whereas only 88 system sobtained B lue Drop scores $\S0\%$ in 2010, 95 system sobtained >50% in the 2011 B lue Drop cycle. In addition, the number of system sscoring between 90 – 100% increased from 43 (2010) to 65 (2011) system \S as indicated in the pie chart hereunder. However, the most significant statistic is the Provincial B lue Drop Score of 94.09% which place Wostern Cape as one of the top national performores.

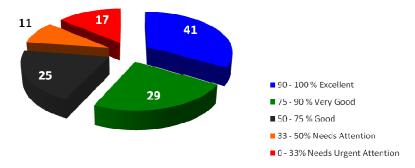
WESTERN CAPE
Page 3

Blue Drop Assessment Resutls 2009





Blue Drop Assessment Results 2011



W hencon paring 2011 B Lie Drop results with 2009 and 2010, the following trends are observed:

- ✓ 123 systen sare assessed in 2011 cm pare to 87 (2009) and 107 (2010)
- ✓ 29 systen sach eved B Lie Drop Cert fication, con pared to 14 (2010) and 11 (2009)
- √ 57% of a lk ystem sare now in excellent and very good state (2011) cm pared to 40.2% of system sin 2010 and 39% (2009)
- x 17 system sscored between 0-33% in 2011, as opposed to 15 system sin 2010— this marks a sight digress in system sthat need attent ion.

Readers need to be mindfut hat Blue Drop Certification follows a regulation strategy that facilitates gradual and sustainable improvement... Thereby, Blue Drop requiren ets becom em orestringent with every assessment cycle. Munitipalities who merely 'maintained' their water ons an elevels year in and out, is likely to achieve reduced Blue Drop scores, whist munitipalities that drive 'continuous' improvement, are likely to be a warded with improved Blue Drop scores with each assessment cycle.

Conclusion

The B Lie Drop results for 2011 indicate that munitipal drinking water quality managen et in Western Cape vary fron excellent to unsatisfactory, with 17 system sthat need urgent attention, as indicated in the Provincia Perform arceLog. The overallous hess of drinking water supply and quality managen et is satisfactory, however areas of concernare raised where in proven et is required. Western Cape is taking the second place of best performing province in the country in term softhe Provincia Blue Drop score. However, Western Cape accomplished the highest non ber of Blue Drop system is South Africa.

Twenty-nine Blue Drop Certificates are a war ded in West erin Cape:

1 Blue Drop : Beaufort W est Loca IM unicpality

• 3 Blue Drops : B tou Loca IM unic pa lty

• 1 Blue Drop : C ty of Cape To wn M etropo It an M unic palty

• 3 Blue Drops : Drakenstein Loca IM unit pality / City of Cape Town and West Coast

District M unic ipa lity

2 Blue Drops : George Loca IM unit palty
 2 Blue Drops : M ase Bay Loca IM unit palty
 3 Blue Drops : Overstrand Loca IM unit palty

3 Blue Drops : Stellenbosch Loca IM unit pality / City of Cape Town

3 Blue Drops : Wet Coast District Municipality
 5 Blue Drops : Witzenberg Loca IM unicipality

City of Cape Town Metropolitan Witzenberg Local Municipality George Local Municipality Bitou Local Municipality Local Municipality Swartland Local Municipality Knysna Local Municipality Breede Valley Local Municipality Bergrivier Local Municip 라 Prince Albert

WESTERN CAPE Page 5 • WESTERN CAPE Page 6

Water Services Authority: Beaufort West Local Municipality
Water Services Providers: Beaufort West Local Municipality

Municipal Blue Drop Score 2011: 92.01%

Performance Area	S	Beaufort West	Merweville	Nelspoort
	Systems	blue drop GSSP40 DGCLIOT Coda plans before brownerd		
Water Safety Planning Process & Incident Response Management		96	72	76
Process Control, Maintenance & Management Skills		84	90	94
Monitoring Programme		93	63	59
Credibility of Sample Analyses		93	75	75
Submission of Results		100	100	100
Drinking Water Quality Compliance		100	85	20
Performance Publication		100	100	100
Asset Management		82	63	66
Bonus Scores		1.3	0	0
Penalties		1.5	1.5	1.2
Blue Drop Score (2011)		95.44%(↑)	79.71% (↓)	61.21% (↓)
Blue Drop Score (2010)		95.00%	86.25%	70.13%
System Design Supply Capacity (MI/d)	1	4.32	0.4	0.32
System Operational Capacity		105%	68%	103%
Population Served by System		37 200	1 233	1 758
Ave. Daily Consumption per Capita (I)		122	220	155
Microbiological Compliance(12 months	5)	99.29%	100.00%	76.92%
Chemical Compliance(12 months)		100.00%	100.00% (9 months)	100.00%

Regulatory Impression:

It is a we lknown fact that Beaufort West has been challenged severely due to water shortages (droughts) but this has not prevented conmitted officials to be dedicated to consistently supply water of safe quality. The Blue Drop bgo can now again be proudly associated with this town in the heart land of the Karoo.

It is however required that the municipality in prove on the consistent in plan entation of an effective munitoring program muleSamuling points should be set according to the critical controlopints, informulation by the risk assessmulation of the critical controlopints and the critical controlopints and the critical controlopints and the critical controlopints are controlopints.

A worry ing fact though would be that the inspectors only found two chibr ine tanks on site while the plant uses 4 a month. This finding points to the fact that the procurene et and ordering process poses a risk to the continued supply of safe water. This mount be given prior ty attention.

♦ WESTERN CAPE Page 7

Water Services Authority: Bergrivier Local Municipality
Water Services Providers: Bergrivier Local Municipality

Municipal Blue Drop Score 2011: 85.20%

Chemical Compliance(12 months)

Performance Area	S	Aurora	Eendekuil	Piketberg
	Systems			
Water Safety Planning Process &		69	61	67
Incident Response Management Process Control, Maintenance &				
Management Skills		93	73	39
Monitoring Programme		66	57	80
Credibility of Sample Analyses		100	93	96
Submission of Results		100	85	100
Drinking Water Quality Compliance	е	67	82	52
Performance Publication		100	100	100
Asset Management		78	70	76
Bonus Scores		0	0	0
Penalties		1.5	1.5	1.5
Blue Drop Score (2011)		77.88% (↑)	76.15% (↑)	68.78% (↑)
Blue Drop Score (2010)		58.69%	57.81%	62.19%
System Design Supply Capacity (MI/	′d)	0.22	0.09	3
System Operational Capacity		59%	22%	80%
Population Served by System		650	600	9 900
Ave. Daily Consumption per Capita		199	<50	242
Minnehialaniaal Campalianaa (40	the)	400.000/	400.000/	100.00%
Microbiological Compliance(12 mont	1115)	100.00%	100.00%	
Chemical Compliance(12 months)	1115)	96.97% (6 months)	96.67% (6 months)	84.85% (6 months)
	Systems			
Chemical Compliance(12 months)		96.97% (6 months)	96.67% (6 months)	84.85% (6 months)
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance &		96.97% (6 months) Poterville	96.67% (6 months) Redelinghuys	84.85% (6 months) Veldrift
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management		96.97% (6 months) Poterville 69	96.67% (6 months) Redelinghuys 67	84.85% (6 months) Veldrift 75
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills		96.97% (6 months) Poterville 69 93	96.67% (6 months) Redelinghuys 67 29	84.85% (6 months) Veldrift 75 100
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme		96.97% (6 months) Poterville 69 93 66	96.67% (6 months) Redelinghuys 67 29 63	84.85% (6 months) Veldrift 75 100 100
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results	Systems	96.97% (6 months) Poterville 69 93 66 100	96.67% (6 months) Redelinghuys 67 29 63 93	84.85% (6 months) Veldrift 75 100 100 100
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67	96.67% (6 months) Redelinghuys 67 29 63 93 100 80	84.85% (6 months) Veldrift 75 100 100 100 80
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100	84.85% (6 months) Veldrift 75 100 100 100 100 100 100
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63	84.85% (6 months) Veldrift 75 100 100 100 100 100 100 100
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76 0	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0	84.85% (6 months) Veldrift 75 100 100 100 100 100 2.2
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0 1.5	84.85% (6 months) Veldrift 75 100 100 100 100 100 2.2 0.3
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76 0 1.5	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0	84.85% (6 months) Veldrift 75 100 100 100 100 100 2.2
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76 0 1.5 78.21% (↑)	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0 1.5 52.69%(↑)	84.85% (6 months) Veldrift 75 100 100 100 100 100 2.2 0.3 93.15% (↑)
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76 0 1.5 78.21% (↑) 62.19%	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0 1.5 52.69%(↑) 54.19%	84.85% (6 months) Veldrift 75 100 100 100 100 2.2 0.3 93.15% (↑) 67.38%
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/	Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76 0 1.5 78.21% (↑) 62.19% 0.22	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0 1.5 52.69%(↑) 54.19% 0.19	84.85% (6 months) Veldrift 75 100 100 100 100 2.2 0.3 93.15% (↑) 67.38% 5.5
Chemical Compliance (12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/System Operational Capacity	(p) Systems	96.97% (6 months) Poterville 69 93 66 100 100 67 100 76 0 1.5 78.21% (↑) 62.19% 0.22 59%	96.67% (6 months) Redelinghuys 67 29 63 93 100 80 100 63 0 1.5 52.69%(↑) 54.19% 0.19 95%	84.85% (6 months) Veldrift 75 100 100 100 100 2.2 0.3 93.15% (↑) 67.38% 5.5 20%

WESTERN CAPE Page 8

100.00% (6 months)

100.00%

100.00%

Bergriver Loca M unitipality did very welld uring the last Blue Drop assessment to the extent where they (together with West Coast M) can eextrem ely close to obtaining a Blue Drop for the Velbrift water supply system. The trend of good perform ance is evident throughout the 6 system swhich is the reason for optimism with the Blue Drop inspectors on future perform ances of this water services authority.

Unfortunately the contract on plance in P ketberg and Rede high huys is not up to standard. It is expected that this wilble im proved soonest. During the technical bin-site verification and that the P ketberg plant, the inspectors found this works currently being refurbished which holds promise of improved drinking water quality. In spite of the construction work, the state of plant was rather in pressive. (So too was the Portervile works)

Findings

- The process controlling team at P ketberg was unaware of the whereabouts of the m easurem et device. This was identified as a shortcon ing that will affect effective asset m anagem et at the p lant.
- The fitration system at P ketberg did not appear to be in the most acceptable condition. There were signs of mouth bailing and uneven backwashing. (The Departmort entire that this will be rectified with commissioning of new plant)
- 3. The municipality is required to perform a full ANS 241 as part of its risk assessment to inform an effective munitoring program me

WESTERN CAPE
Page 9

Water Services Authority: Bitou Local Municipality
Water Services Providers: Bitou Local Municipality

Municipal Blue Drop Score 2011: 96.12%

Performance Area	S	Plettenberg Bay	Kurland	Nature Valley
	Systems	blue drop Gassier DEGLET Cells pans bely largered	blue drop CASPAGE DOCUMENT Casta para labely designed	blue drop GASP4E DECQUET Coats a rem bely program
Water Safety Planning Process & Incident Response Management		79	79	79
Process Control, Maintenance & Management Skills		100	80	80
Monitoring Programme		100	93	93
Credibility of Sample Analyses		100	98	94
Submission of Results		100	100	100
Drinking Water Quality Compliance		100	100	100
Performance Publication		100	100	100
Asset Management		85	93	93
Bonus Scores		1.6	2.1	2.2
Penalties		0.3	0.3	0.3
Blue Drop Score (2011)		96.19%(↓)	95.00%(↓)	95.00%(↓)
Blue Drop Score (2010)		97.85%	96.55%	96.35%
System Design Supply Capacity (MI/d))	27	0.6	1
System Operational Capacity		31%	50%	200%
Population Served by System		40 000	2 500	40
Ave. Daily Consumption per Capita (I)		209	120	>500
Microbiological Compliance(12 months	5)	100.00%	100.00%	100.00%
Chemical Compliance(12 months)		100.00%	100.00%	100.00%

Regulatory Impression:

In spite of Bue Drop crtera becoming increasingly in plan entation-focussed, Btou Loca Municipality once again in pressed with a phenon enaber from ance, just fying the albeation of the prestigious certification for the 3 system s

The inspectors conducted an on-stever fixation and tat the P bettenberg Bay water treath of p bint and found to in an impeccable state. An anound of the chorine sand ping point might be required to ensure optim on readings are obtained. The current point (sond p) is not a favourable due to zero f bw we bot ty noted in this part of the p bint. The B bushop propriet or swere rather in pressed with the operations of the P bettenberg Bay: "The WTW is well managed and still operating under the design

capacity. The process Controllers from this plant are well skilled, enthusiastic and passionate about their

The capacity challenges in Nature's Valley are noted. The plans to increase the capacity to balance the peak (holiday) season den and will be montored to ensure that the risk of compromised treatment is mitigated.

Nevertheless an exceptional perform ance once again, leaving the Department with complete confidence in the meanner drinking water quality is being mean anged within the Bitou Local Municipality.

Water Services Authority: Breede Valley Local Municipality
Water Services Providers: Breede Valley Local Municipality

Worcester

Rawsonville

Touwsrivier /

Municipal Blue Drop Score 2011: 85.93%

Performance Area

Systems Systems	worcester	Kawsonville	Bokrivier /
Water Safety Planning Process &			
Incident Response Management	94	92	70
Process Control, Maintenance & Management Skills	50	40	40
Monitoring Programme	69	71	66
Credibility of Sample Analyses	70	57	57
Submission of Results	100	100	100
Drinking Water Quality Compliance	90	90	90
Performance Publication	100	100	100
Asset Management	88	82	60
Bonus Scores	2.1	0	0
Penalties	0.1	0.1	0.1
Blue Drop Score (2011)	86.55% (↑)	81.84%(↑)	74.69% (↑)
Blue Drop Score (2010)	82.90%	75.56%	70.38%
System Design Supply Capacity (MI/d)	52	0.8	3
System Operational Capacity	68%	35%	110%
Population Served by System	100 000	15 000	10 000
Ave. Daily Consumption per Capita (I)	354	<50	330
Microbiological Compliance(12 months) Chemical Compliance(12 months)	100.00% 100.00%	100.00% 100.00%	100.00% 100.00%
Chemical Compilance(12 months)	100.00%	100.00%	100.00%
Performance Area	De Doorns	De Ko	ppen / Fairy Glen
Water Safety Planning Process & Incident Response Management	91		91
Process Control, Maintenance & Management Skills	80		40
Monitoring Programme	85		86
Credibility of Sample Analyses	74		73
Submission of Results	100		50
Drinking Water Quality Compliance	90		90
Performance Publication	100		100
Asset Management	97		67
Bonus Scores	0		2.5
Penalties	0.1		0.1
Blue Drop Score (2011)	90.27%(↑)	82.03% (↑)
Blue Drop Score (2010)	67.38%		NA
System Design Supply Capacity (MI/d)	4.8		9
System Operational Capacity	26%		NI
Population Served by System	40 000		6 000
Ave. Daily Consumption per Capita (I)	-		-
Microbiological Compliance(12 months) Chemical Compliance(12 months)	100.00% 100.00%		100.00% 100.00%
	100 00%		

WESTERN CAPE
Page 11

Regulatory Impression:

Breede Valley Loca Municipality can be satisfied with a commendable performence. The improvement since the previous assessment cycle indicates that this authority is on track towards the goal of Blue Drop certification. The DeDoorns system can ecosest to achieving this buts ince the montoring program moneonly consisted of one chemical determinant the Blue Drop certification was unfortunately not just field. (The fitration challenges were also noted)

The municipality is advised to take courage out of this perform are and continue with the commitment portrayed during the assessment. The current water safety planning process is noted. This is a step in the right direction; another step towards excelence.

Findings

- 1. The Risk Assessment process needs to be refined to confirm the absence of protozoa in the raw water resources. Fitration as a controlmessure would becomessent as hould the risk assessment confirm the possibility of protozoa presence.
- Attent on m ust be given to the skills and qualification of those responsible for process controlling.
- 3. The risk of inadequate treath of at the Touwsrivier plant should be addressed It is noted that this plant is operating we labove to design capacity. Capital investment is required to ensure the safe supply of water to this constituency.

Water Services Authority: Cape Agulhus Local Municipality
Water Services Providers: Cape Agulhus LM; Overberg Water

Municipal Blue Drop Score 2011: 73.01%

Performance Area	Aniston ^a	BredasdorpTown	Elim Fontein
Systems	(Waenhuiskrans)	·	Water
Syst			310.00
Water Safety Planning Process &		_	_
Incident Response Management	77	67	67
Process Control, Maintenance &	100	60	30
Management Skills			
Monitoring Programme	93	87	51
Credibility of Sample Analyses	75	82	91
Submission of Results	100	20	100
Drinking Water Quality Compliance	70	24	93
Performance Publication	75	80	80
Asset Management	66	69	70
Bonus Scores	5	8.7	4.0
Penalties	0.2	1.7	1.6
Blue Drop Score (2011)	82.93%(↑)	63.97% (4)	77.87% (↑)
Blue Drop Score (2010)	78.13%	78.13%	N/A
System Design Supply Capacity (MI/d)	4.3	8	NI
System Operational Capacity	65%	50%	NI
Population Served by System	1 831 (8000)	16 811	1 666
Ave. Daily Consumption per Capita (I)	350	237	-
Microbiological Compliance(12 months)	98.26%	93.94% (10 months)	100.00%
Chemical Compliance(12 months)	86.06%	100.00% (9 months)	100.00%
Performance Area	L'Agulhus	Napier	Stuisbaai
Performance Area	L'Agulhus	Napier	Stuisbaai
Performance Area	L'Agulhus	Napier	Stuisbaai
Performance Area		•	
Water Safety Planning Process & Incident Response Management	L'Agulhus 67	Napier 67	Stuisbaai 67
Water Safety Planning Process & Incident Response Management Process Control, Maintenance &	67	•	67
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	67	67	67
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	67 30 67	67 70 57	67 30 42
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	67	67	67
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	67 30 67	67 70 57	67 30 42
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses	67 30 67 70	67 70 57 77	67 30 42 74
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results	67 30 67 70 100	67 70 57 77 100	67 30 42 74 100
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance	67 30 67 70 100	67 70 57 77 100 100	67 30 42 74 100 15
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication	67 30 67 70 100 100 80	67 70 57 77 100 100	67 30 42 74 100 15 80
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management	67 30 67 70 100 100 80 70	67 70 57 77 100 100 80 40	67 30 42 74 100 15 80 70
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties	67 30 67 70 100 100 80 70 5.7 1.4	67 70 57 77 100 100 80 40 4.3 1.5	67 30 42 74 100 15 80 70 12.2 1.4
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)	67 30 67 70 100 100 80 70 5.7 1.4 82.35% (↑)	67 70 57 77 100 100 80 40 4.3 1.5 79.86% (↑)	67 30 42 74 100 15 80 70 12.2 1.4 61.10% (\$\sqrt{\sin}}}}}}}\signtarinftita}\sqrt{\sint\sint\sint\sintitita\sintitita\sinti\sinti\sinti\sinti\sinti\sinti\sintititit{\sinti\sinti\sinti\sinti\sinti\sinti\sinti\sinti\sinti\sintititit{\sinti\sinti\sinti\sinti\sinti\sinitititi\sinti\sinititititi\sintitititititi\sintiit\sinititit\sinititititit{\sinitititit{\sinitititi\
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties	67 30 67 70 100 100 80 70 5.7 1.4	67 70 57 77 100 100 80 40 4.3 1.5	67 30 42 74 100 15 80 70 12.2 1.4
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	67 30 67 70 100 100 80 70 5.7 1.4 82.35% (↑)	67 70 57 77 100 100 80 40 4.3 1.5 79.86% (↑)	67 30 42 74 100 15 80 70 12.2 1.4 61.10% (\(\psi\)) 76.38%
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/d)	67 30 67 70 100 100 80 70 5.7 1.4 82.35% (↑) 76.13% NI	67 70 57 77 100 100 80 40 4.3 1.5 79.86% (↑) 75.50%	67 30 42 74 100 15 80 70 12.2 1.4 61.10% (↓) 76.38% NI
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/d) System Operational Capacity	67 30 67 70 100 100 80 70 5.7 1.4 82.35% (↑) 76.13% NI	67 70 57 77 100 100 80 40 4.3 1.5 79.86% (↑) 75.50% 2 90%	67 30 42 74 100 15 80 70 12.2 1.4 61.10% (↓) 76.38% NI
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/d) System Operational Capacity Population Served by System	67 30 67 70 100 100 80 70 5.7 1.4 82.35% (↑) 76.13% NI	67 70 57 77 100 100 80 40 4.3 1.5 79.86% (↑) 75.50% 2 90% 4 663	67 30 42 74 100 15 80 70 12.2 1.4 61.10% (↓) 76.38% NI

WESTERN CAPE
Page 13

Performance Area	Suiderstrand	Protem ^a	Klipdale ^a
Water Safety Planning Process & Incident Response Management	67	77	77
Process Control, Maintenance & Management Skills	25	100	75
Monitoring Programme	49	68	68
Credibility of Sample Analyses	70	68	68
Submission of Results	100	100	0
Drinking Water Quality Compliance	55	55	85
Performance Publication	80	80	80
Asset Management	70	88	96
Bonus Scores	9.5	11.3	11.3
Penalties	1.4	0	0
Blue Drop Score (2011)	70.40% (↓)	80.27% (↓)	81.95% (↓)
Blue Drop Score (2010)	77.00%	94.80%	94.80%
System Design Supply Capacity (MI/d)	NI	NI	NI
System Operational Capacity	NI	NI	NI
Population Served by System	1 000	300	300
Ave. Daily Consumption per Capita (I)	-	-	-
Microbiological Compliance(12 months)	94.44% (11 months)	100.00% (5 months)	100.00% (5 months)
Chemical Compliance(12 months)	100.00% (5 months)	77.93% (5 months)	100.00% (5 months)

Regulatory Impression:

While a reasonably good perform ance was recorded during this Blue Drop assessment, it is unfortunate that an overable ine of 5% is noted. This is mentally due to the Weater Safety Planning process which was not implaned according to expectations. Nevertheless there is sufficient reason to be optimistic that both Cape Aguihas and Overberg Weater will impove implaned at a proach soon.

The biggest disappoint of two ublibe the performance of the Proton and Kipda bisystem is that dropped from Bile Drop content on Yet are these system is stated as excellent performors. The erration onto ring together with sub-standard chemical to might not be the areas that require attention.

Findings

- 1. Data subn is not up to standard and this com pron is the actual perform arce of system sBoth W ater Services Authority and Provider are encouraged to ensure punctua (at least morthly) subn is son of analyses to the Department.
- 2. Process Opt in Bat on Brequired to in prove chen ical con plance soonest on the Ruensveld East water treath entrystem. This is a sacrosanct requiren ert.
- 3. The lack of information on treatment capacity and operational tatus portrays a less impressive picture on the asset management performance of both institutions. In addition, the daily consumption projections are rather high which raises concern on unaccounted for water.

Water Services Authority: Cederberg Local Municipality
Water Services Providers: Cederberg Local Municipality

Municipal Blue Drop Score 2011: 51.05%

Performance Area		Clanwilliam	Citrusdal	LambertsBay
	Systems			
	Syst			
Water Safety Planning Process &		19	19	19
Incident Response Management		19	19	19
Process Control, Maintenance &		55	33	25
Management Skills Monitoring Programme		43	58	70
		63		65
Credibility of Sample Analyses			66	
Submission of Results		100	100	100
Drinking Water Quality Compliance	e	20	78	78
Performance Publication		25	25	25
Asset Management		73	55	63
Bonus Scores		0	0	0
Penalties		1.6	1.3	1.6
Blue Drop Score (2011)		40.22% (↓)	55.76% (↓)	55.76% (↓)
Blue Drop Score (2010)		60.56%	61.25%	66.81%
System Design Supply Capacity (MI/	/d)	2.1	2	2
System Operational Capacity		76%	65%	70%
Population Served by System		7 481	7 014	5 864
Ave. Daily Consumption per Capita (213	185	238
			92.31%	100.00%
Microbiological Compliance(12 mont	tns)	84.62%		
Microbiological Compliance(12 mont Chemical Compliance(12 months)	tns)	No data	No data	No data
Chemical Compliance(12 months)	Systems	No data	No data	No data
Chemical Compliance(12 months)		No data	No data	No data
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance &		No data ElandsBay	No data Graafwater	No data Leipoldtsville
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management		No data ElandsBay 19	No data Graafwater 19	No data Leipoldtsville 19
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills		No data ElandsBay 19 35	No data Graafwater 19 51	Leipoldtsville 19 28
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme		No data ElandsBay 19 35 48	No data Graafwater 19 51 75	Leipoldtsville 19 28 59
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results	Systems	19 35 48 66 75	No data Graafwater 19 51 75 65 20	19 28 59 65
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance	Systems	19 35 48 66 75 78	19 51 75 65 20 66	19 28 59 65 100 78
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication	Systems	19 35 48 66 75 78	19 51 75 65 20 66 25	19 28 59 65 100 78
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance	Systems	19 35 48 66 75 78	19 51 75 65 20 66	19 28 59 65 100 78
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management	Systems	19 35 48 66 75 78 25 63	19 51 75 65 20 66 25 63	No data Leipoldtsville 19 28 59 65 100 78 25 63
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties	Systems	19 35 48 66 75 78 25 63 0 1.6	19 51 75 65 20 66 25 63 0 1.8	No data Leipoldtsville 19 28 59 65 100 78 25 63 0 0.9
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores	Systems	19 35 48 66 75 78 25 63 0	No data Graafwater 19 51 75 65 20 66 25 63 0	No data Leipoldtsville 19 28 59 65 100 78 25 63 0
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	Systems	No data ElandsBay 19 35 48 66 75 78 25 63 0 1.6 53.33% (↓)	No data Graafwater 19 51 75 65 20 66 25 63 0 1.8 51.49% (↓)	No data Leipoldtsville 19 28 59 65 100 78 25 63 0 0.9 54.89% (↓)
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)	Systems	No data ElandsBay 19 35 48 66 75 78 25 63 0 1.6 53.33% (↓) 58.06%	No data Graafwater 19 51 75 65 20 66 25 63 0 1.8 51.49% (↓) 66.06%	No data Leipoldtsville 19 28 59 65 100 78 25 63 0 0.9 54.89% (↓) 67.19%
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/	Systems	No data ElandsBay 19 35 48 66 75 78 25 63 0 1.6 53.33% (↓) 58.06% 1	No data Graafwater 19 51 75 65 20 66 25 63 0 1.8 51.49% (↓) 66.06% 1.5	No data Leipoldtsville 19 28 59 65 100 78 25 63 0 0.9 54.89% (↓) 67.19% NI
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/ System Operational Capacity	e Systems	No data ElandsBay 19 35 48 66 75 78 25 63 0 1.6 53.33% (↓) 58.06% 1 70%	No data Graafwater 19 51 75 65 20 66 25 63 0 1.8 51.49% (↓) 66.06% 1.5 67%	No data Leipoldtsville 19 28 59 65 100 78 25 63 0 0.9 54.89% (↓) 67.19% NI
Chemical Compliance(12 months) Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/ System Operational Capacity Population Served by System	e e	No data ElandsBay 19 35 48 66 75 78 25 63 0 1.6 53.33% (↓) 58.06% 1 70% 3 641	No data Graafwater 19 51 75 65 20 66 25 63 0 1.8 51.49% (↓) 66.06% 1.5 67% 2 423	No data Leipoldtsville 19 28 59 65 100 78 25 63 0 0.9 54.89% (↓) 67.19% NI

♦ WESTERN CAPE Page 15

Regulatory Impression:

The perform arce of Cederberg Loca M unit pality is less in pressive with an all round decline in Blue Drop Perform arce since 2010. This decline is mostly due to the lack of a proper water safety planning process. The inspectors found the water safety plan and risk assessment to have been compled without the necessary care and thoroughness required to ensure that the process fulfit he purpose of it's intend. Nevertheless there remains sufficient reason to remain encouraged since the municipal representative at the confimation assessment portrayed the promise of being committed to manage drinking water quality according to expectations. It is evident though that the promise will only materials eshould this commitment be support internally.

It is also encouraging to note that the microbiological quality of most waters upplies in proved but unfortunately Clanwillian and Ctrusdalequies urgent attention. Records suggest that the mouncipality was unable to continuously provide drinking water that compled with the national standard in these two systems.

There is a need for in proven ettriggered by a proper risk assessmet as part of the water safety planning process that is to inform both water treatment and montoring. Currently the lack of montoring for chenical teterminands, should be regarded as significant risk to effective drinking water quality management.

Findings

The aquifer used as source for Leipo bits ville is not managed adequately since a bstraction occurs without any base information on the geo-hydrobgicaly is did fithe borehole. Without this information the risk exists that over-abstraction patterns could be followed which may cause permanent dan age to the aquifer.

Water Services Authority: Central Karoo District Municipality
Water Services Providers: Central Karoo District Municipality

Municipal Blue Drop Score 2011: 11.50%

Performance Area	Murraysburg
Water Safety Planning Process & Incident Response Management	0
Process Control, Maintenance & Management Skills	0
Monitoring Programme	0
Credibility of Sample Analyses	40
Submission of Results	100
Drinking Water Quality Compliance	15
Performance Publication	0
Asset Management	0
Bonus Scores	0
Penalties	0
Blue Drop Score (2011)	11.50%(↓)
Blue Drop Score (2010)	45.63%
System Design Supply Capacity (MI/d)	NI
System Operational Capacity	NI
Population Served by System	6 682
Ave. Daily Consumption per Capita (I)	-
Microbiological Compliance(12 months)	83.33%
Chemical Compliance(12 months)	No data

Regulatory Impression:

It is with great regret noted that mossive decime in Blue Drop perform ance was mossured during the recent assessmonets for Centra Karoo Mossice the previous reporting cycle. The Departmont is not indifferent towards the challenges faced by this water services authority but expects a better performone ance to get on par with neighbouring monitipalities that shares similar circum stances. The monitipality should note that to is in the best interest of public health in Murraysburg that serious attention is given to drinking water quality morangement. An overall improvement is required.

♦ WESTERN CAPE Page 17

Water Services Authority: City of Cape Town Metropolitan Municipality
Water Services Providers: City of Cape Town Metropolitan Municipality

Municipal Blue Drop Score 2011: 97.61%

Performance Area	Systems	City of Cape Metropolitan
Water Safety Planning Process & Incident Response Management		95
Process Control, Maintenance & Management Skills		90
Monitoring Programme		100
Credibility of Sample Analyses		100
Submission of Results		100
Drinking Water Quality Compliance		100
Performance Publication		100
Asset Management		90
Bonus Scores		1.1
Penalties		0
Blue Drop Score (2011)		97.61% (↓)
Blue Drop Score (2010)		98.18%
System Design Supply Capacity (MI/o	(t	1711 (combined)
System Operational Capacity		53% (combined)
Population Served by System		3 500 000
Ave. Daily Consumption per Capita (I)	259
Microbiological Compliance(12 month	ns)	99.50%
Chemical Compliance(12 months)		99.48%

Regulatory Impression:

Office s and m anagen et a keed sp byed exen pary dedication to drinking water quality m anagen et during the latest B Lie Dropassessm et. The inspectors were encouraged by the cooperative manner in which the assessm et was conducted; this was also evident in the willingness shown to an end processes and program meround to be out of sync with national requirements.

The Department wish to congratuate the City for achieving Blue Drop certification for the third year in a row This in itself is a renealable achieven et.

The Lead Inspect or not ed:" Cape Town has again impressed with their commitment to water quality.

The systems presented for assessment has generally improved since the last certification cycle and promises to show further improvement in years to come. Some issues were raised in the assessment which should receive priority attention. These include improved incident register management with a periodical dedicated review of recurring incidents with a view on addressing those incidents, further development of operational guidance manuals, improved management of problematic sample points in informal settlements, and a review and resolution of the interface issues between the Metro's LIMS system and the Department's BD system. The Metro's current ongoing technical review programme for its treatment plants is acknowledged and encouraged. The Metro's plants and laboratories are first rate and its management team is providing clear evidence of their commitment to improving overall performance."

Water Services Authority: Drakenstein Local Municipality
Water Services Providers: Drakenstein LM; City of Cape Town ; West Coast DM

Municipal Blue Drop Score 2011: 95.72%

Water Safety Planning Process & Incident Response Management 95 95 91	
Incident Response Management	
Management Skills 90 80 80 Monitoring Programme 93 93 100 Credibility of Sample Analyses 83 93 75 Submission of Results 100 100 100 Drinking Water Quality Compliance 100 100 100 Performance Publication 100 100 100 Asset Management 93 85 93 Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Credibility of Sample Analyses 83 93 75 Submission of Results 100 100 100 Drinking Water Quality Compliance 100 100 100 Performance Publication 100 100 100 Asset Management 93 85 93 Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Submission of Results 100 100 100 Drinking Water Quality Compliance 100 100 100 Performance Publication 100 100 100 Asset Management 93 85 93 Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Drinking Water Quality Compliance 100 100 100 Performance Publication 100 100 100 Asset Management 93 85 93 Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Performance Publication 100 100 100 Asset Management 93 85 93 Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Asset Management 93 85 93 Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Bonus Scores 1.4 1.8 1.7 Penalties 0 0 0	
Penalties 0 0 0	
Plus Drop Score (2011) 95 909/(a) 95 719/(b) 95 979/ (c)	
	М
Blue Drop Score (2010) 72% 95% 95.25%	' /
System Design Supply Capacity (MI/d) 0.4 270 (combined) 29.1	
System Operational Capacity 32.5% 73% 58%	
Population Served by System 77 188 918 3 082	
Ave. Daily Consumption per Capita (I) >500 >500 >500	
Microbiological Compliance(12 months) 100.00% 99.63%; WSP: 99.50% 100.00%; WSP: 9	7.78%
Chemical Compliance(12 months) 97.61% 99.93%; WSP: 99.48% 96.91%; WSP: 98.48%	.21%
Performance Area Hermon a Saron	
Water Safety Planning Process & 94 94 Incident Response Management	
Process Control, Maintenance & 50 80	
Monitoring Programme 89 81	
Credibility of Sample Analyses 41 75	
Submission of Possiba	
Submission of Results 100 100	
Drinking Water Quality Compliance 85 85	
200	
Drinking Water Quality Compliance 85 85	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93 Bonus Scores 5.0 3.5 Penalties 0.3 0.3 Blue Drop Score (2011) 88.25% (↓) 91.79% (↓)	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93 Bonus Scores 5.0 3.5 Penalties 0.3 0.3 Blue Drop Score (2011) 88.25% (↓) 91.79% (↓) Blue Drop Score (2010) 90.5% 97.25%	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93 Bonus Scores 5.0 3.5 Penalties 0.3 0.3 Blue Drop Score (2011) 88.25% (↓) 91.79% (↓) Blue Drop Score (2010) 90.5% 97.25% System Design Supply Capacity (MI/d) 0.4 1.5	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93 Bonus Scores 5.0 3.5 Penalties 0.3 0.3 Blue Drop Score (2011) 88.25% (↓) 91.79% (↓) Blue Drop Score (2010) 90.5% 97.25% System Design Supply Capacity (MI/d) 0.4 1.5 System Operational Capacity 33% 111%	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93 Bonus Scores 5.0 3.5 Penalties 0.3 0.3 Blue Drop Score (2011) 88.25% (↓) 91.79% (↓) Blue Drop Score (2010) 90.5% 97.25% System Design Supply Capacity (MI/d) 0.4 1.5 System Operational Capacity 33% 111% Population Served by System 478 7 419	
Drinking Water Quality Compliance 85 85 Performance Publication 100 100 Asset Management 85 93 Bonus Scores 5.0 3.5 Penalties 0.3 0.3 Blue Drop Score (2011) 88.25% (↓) 91.79% (↓) Blue Drop Score (2010) 90.5% 97.25% System Design Supply Capacity (MI/d) 0.4 1.5 System Operational Capacity 33% 111%	

WESTERN CAPE
Page 19

Regulatory Impression:

Together with bulk providers, City of Cape Townaind Wilest Coast Mill, the Loca Mill unit pality of Drakenstein once again impressed with an excellent Blue Drop perform ance. Whilst 3 system sobtained the coveted certification status the renil aing 2 were also found to be performing extremedy well.

In the words of the Lead Inspector: "Dakenstein LM showed extraordinary commitment to respond to

the deficiencies identified during the assessment. They showcased all the characteristics of a team fully committed to ensuring compliance with the provision of the Blue Drop Certification. The Municipality has implemented in a high risk area with

There is concern for the operations of the Saron works which is operating we libeyond its design capacity. Nevertheless the Departn entinotes the capitalex pansion program mewhich includes additional tapacity. It should be noted that water bases in this area is calculated as 28% Unfortunately this system also but its Blue Drop status, mostly due to inconsistent chemical motoring.

Water Services Authority: Eden District Municipality
Water Services Providers: Eden District Municipality

Municipal Blue Drop Score 2011: 18.67%

Performance Area	Systems	Haarlem	Uniondale
	Sy		
Water Safety Planning Process & Incident Response Management		12	9
Process Control, Maintenance & Management Skills		13	5
Monitoring Programme		28	42
Credibility of Sample Analyses		28	29
Submission of Results		0	0
Drinking Water Quality Compliance		10	34
Performance Publication		0	0
Asset Management		0	0
Bonus Scores		4.5	4.5
Penalties		0	0
Blue Drop Score (2011)		14.81%(↓)	22.18%(↓)
Blue Drop Score (2010)		23.53%	23.53%
System Design Supply Capacity (MI/c	i)	1	1.1
System Operational Capacity		NI	100%
Population Served by System		2 500	3 500
Ave. Daily Consumption per Capita (I)	-	314
Microbiological Compliance(12 month	ıs)	80.00% (8 months)	94.44% (8 months)
Chemical Compliance(12 months)		No data	No data

Regulatory Impression:

It is rather clear that Eden District M unit palty is not prior thing the m anagement of drinking water quality as one of its core responsibilities. Howeverthe m unit palty is adding great value within its overallar ear of jurisdiction by ensuring good environmentaheath. The Blue Drop inspectors were left unimpressed with the general lack of information which conpromised any chance of a good performance.

The reported perform are suggests that an overall in proven et is required to ensure that the residents of Haar en and Un binda e are not at risk. Evidently the skills are in place to realise this expectation.

The municipality is encouraged to ensure that the BDS registered munitoring program music aligned to the realisticism plans program music aligned to the realisticism.

♦ WESTERN CAPE Page 21 ♦ WESTERN CAPE

Water Services Authority: George Local Municipality
Water Services Providers: George Local Municipality

Municipal Blue Drop Score 2011: 96.26%

Performance Area	George	Wilderness
Cuctome	blue drop BOILDS DOCUMENT STREET BOILDS	blue drop ORANGE Coat year but by the symmet
Water Safety Planning Process & Incident Response Management	100	100
Process Control, Maintenance & Management Skills	100	80
Monitoring Programme	100	93
Credibility of Sample Analyses	66	71
Submission of Results	100	100
Drinking Water Quality Compliance	100	100
Performance Publication	100	100
Asset Management	78	81
Bonus Scores	1.4	2.2
Penalties	0	0
Blue Drop Score (2011)	96.32%(↓)	95.00% (↑)
Blue Drop Score (2010)	97.38%	89.69%
System Design Supply Capacity (MI/d)	45	1.8
System Operational Capacity	54%	57%
Population Served by System	161 088	18 500
Ave. Daily Consumption per Capita (I)	151	55
Microbiological Compliance(12 months)	99.68%	97.06%
Chemical Compliance(12 months)	99.42%	98.05%

Regulatory Impression:

George Loca M unit paltyonce again did except boally welld uring the assessmets; in the process retaining Blue Drop Certification for the George system, but also lifting Wilderness towards the coveted achievement.

In the words of the Lead Inspector: " The WSA was well prepared and is committed to the Blue Drop

pregrammeasstasythame competent people looking after the plant and distribution system. It was a

The M unit palty is encouraged to proceed on this new path of excelences nice this achieven et is not guaranteed but willon by be m antained. The m unit palty m ust also ensure that the data submission to the Departm et is con byw th BDS requiren ets, Failure to do somight leadt o deterioration of this inspirational lexperience.

Page 22

Water Services Authority: Hessequa Local Municipality
Water Services Providers: Hessequa Local Municipality

Municipal Blue Drop Score 2011: 14.10%

Performance Area		Albertina	Gouritsmond	Heidelberg	Jongens-
	Systems				fontein
	Ş				
Water Safety Planning Process &	•	14	0	0	0
Incident Response Management		14	•	0	0
Process Control, Maintenance &		14	0	0	0
Management Skills Monitoring Programme		4	4	4	4
Credibility of Sample Analyses		10	0	0	0
Submission of Results		0	0	0	0
			_		
Drinking Water Quality Compliance	е	0	0	0	0
Performance Publication		0	0	50	0
Asset Management		32	0	0	0
Bonus Scores		0	0	0	0
Penalties		0.3	0.3	0.3	0.3
Blue Drop Score (2011)		09.21% (↓)	00.40% (↓)	15.40% (↓)	00.40% (4)
Blue Drop Score (2010)		41.25%	24.75%	92.88%	25.75%
System Design Supply Capacity (MI)	/d)	NI	NI	NI	NI
System Operational Capacity		NI	NI	NI	NI
Population Served by System	(1)	0	0	0	0
Ave. Daily Consumption per Capita Microbiological Compliance(12 mon		4000//5	4000/ /5)	4000/ (4)	4000/ /5)
Chemical Compliance(12 months)	tris)	100 % (2 months) 100% (2 months)	100% (2 months) 100% (2 months)	100% (1 month) 66.67% (2 months)	100% (2 months) 100% (3 months)
		100/0 (2 1110111113)			
				(2)	
Performance Area	Systems	Riversdale	Slangrivier	Stillbaai	Witsand
Performance Area Water Safety Planning Process &	Systems	Riversdale	, ,	· · · · ·	Witsand 8
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance &	Systems		Slangrivier	Stillbaai	
Performance Area Water Safety Planning Process & Incident Response Management	Systems	14	Slangrivier 0	Stillbaai 8	8
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	Systems	14 55	Slangrivier 0	Stillbaai 8 34	8
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	Systems	14 55 1	Slangrivier 0 0 4	Stillbaai 8 34 4	8 0 2
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses		14 55 1 2	Slangrivier 0 0 4 0	Stillbaai 8 34 4	8 0 2 14
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		14 55 1 2 0 50	0 0 4 0 0 50	8 34 4 4 0 65	8 0 2 14 0 50
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results		14 55 1 2 0 50	0 0 4 0 0 50	8 34 4 4 0 65	8 0 2 14 0 50
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication		14 55 1 2 0 50	0 0 4 0 0 50	8 34 4 4 0 65	8 0 2 14 0 50
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management		14 55 1 2 0 50 0 28	0 0 4 0 0 50 0	8 34 4 0 65 0 18	8 0 2 14 0 50 0
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores		14 55 1 2 0 50 0 28 0	0 0 4 0 0 0 50 0 0 0 0 0 0 0 0 0 0 0 0 0	8 34 4 0 65 0 18	8 0 2 14 0 50 0 0
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties		14 55 1 2 0 50 0 28 0 0.6	Slangrivier 0 0 4 0 0 50 0 0 0 0 0 0 0 0 0 0 0	8 34 4 0 65 0 18 0 0.5	8 0 2 14 0 50 0 0 0
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mil.	e	14 55 1 2 0 50 0 28 0 0.6 26.90% (↓)	Slangrivier 0 0 4 0 50 0 0 0 15.43% (↓)	8 34 4 4 0 65 0 18 0 0.5	8 0 2 14 0 50 0 0 0 0.6 17.08% (\$\psi\$)
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mizystem Operational Capacity	e	14 55 1 2 0 50 0 28 0 0.6 26.90% () 53.38% NI	Slangrivier 0 0 4 0 50 0 0 0 15.43% (↓) 92.88%	8 34 4 4 0 65 0 18 0 0.5 27.28% (\psi) 32.13% NII NII	8 0 2 14 0 50 0 0 0 17.08% (\psi) 92.88% NI
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mil/System Operational Capacity Population Served by System	e e	14 55 1 2 0 50 0 28 0 0.6 26.90% (↓) 53.38%	Slangrivier 0 0 4 0 0 50 0 0 0 0 15.43% (↓) 92.88%	8 34 4 0 65 0 18 0 0.5 27.28% (\psi) 32.13% NI	8 0 2 14 0 50 0 0 0 17.08% (\psi) 92.88%
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mix System Operational Capacity Population Served by System Ave. Daily Consumption per Capita	e e ((i)	14 55 1 2 0 50 0 28 0 0.6 26.90% (↓) 53.38% NI NI 51568	Slangrivier 0 4 0 0 50 0 0 0 15.43% (↓) 92.88% NI NI 0	8 34 4 4 0 65 0 18 0 0.5 27.28% (↓) 32.13% NI NI 0	8 0 2 14 0 50 0 0 0 0 17.08% () 92.88% NI NI 0
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mil/System Operational Capacity Population Served by System	e e ((i)	14 55 1 2 0 50 0 28 0 0.6 26.90% () 53.38% NI	Slangrivier 0 0 4 0 50 0 0 0 15.43% (↓) 92.88%	8 34 4 4 0 65 0 18 0 0.5 27.28% (\psi) 32.13% NII NII	8 0 2 14 0 50 0 0 0 17.08% () 92.88% NI NI

WESTERN CAPE
Page 23

Regulatory Impression:

The non-comm to et of Hessequa Loca Municipa It yofficials to adhere to regulatory requirencets set by the Department to safeguard public heath is almestable; hence the poor Bue Drop performance. The municipality is required to ensure that performance agreements of these officials include crucial elements such as continuous drinking water quality montoring, and to take the necessary disciplinary steps once public heath is at risk due to non-performance. It might be that workover bad could prevent that sufficient time is given to drinking water quality management but unfortunately to cannot be just field when such action could lead to public heath being conpromised.

According to records this municipality only montored drinking water quality trice in 2010 (April May and July). Due to this erration onto ring pattern to is unfortunate that both municipality and conmunities won't have access to information to verify the quality of the water supplied.

Water Services Authority: Kannaland Local Municipality
Water Services Providers: Kannaland Local Municipality

Municipal Blue Drop Score 2011: 55.50%

Performance Area	Calitzdorp	Ladismith	Van Wyksdorp	Zoar
Water Safety Planning Process & Incident Response Management	64	66	66	66
Process Control, Maintenance & Management Skills	19	55	39	59
Monitoring Programme	66	64	24	32
Credibility of Sample Analyses	100	100	100	100
Submission of Results	20	100	0	0
Drinking Water Quality Compliance	82	93	0	5
Performance Publication	25	25	25	25
Asset Management	55	55	52	52
Bonus Scores	0	0	0	0
Penalties	1.9	1.7	1.6	1.9
Blue Drop Score (2011)	60.33%(↑)	70.28% (↑)	31.53%(↑)	35.75%(↑)
Blue Drop Score (2010)	13.65%	32.38%	09.73%	21.88%
System Design Supply Capacity (MI/d)	42	3.6	0.15	1.4
System Operational Capacity	NI	NI	NI	NI
Population Served by System	9 000	10 000	1 000	7 000
Ave. Daily Consumption per Capita (I)	-	-	-0	-
Microbiological Compliance(12 months)	100.00%	100% (9 months)	66.67% (9 months)	87.50% (7months)
Chemical Compliance(12 months)	100% (9 months)	100% (11 months)	No data	100% (8 months)

Regulatory Impression:

The in proven et recorded since the 2010 assessments is certainly praiseworthy. As with the Green Drop this on alm unicipality evidently committed the foodhere to the regulatory criteria in spite of limited resources but with in pressive commitment. However there remains specificareas (Vanwyksvei i and Zoar) den anding urgent attention though. Compliance records in these areas are certainly not favourable.

The inspectors found that there was a significant improven et in the perform ance subsequent to the Confirm ation session. This is we ton edand serves as test in ony that the consultative audits of the Blue Drop program eare adding value.

Findings

- The poor con plance record noted in Van W yksdorp is based on a limited set of data, which suggest that this param count that same plant is increased and that disinfection be considered.
- The Beigian donated plant in Van W yksdorp requires to be subjected to process optimisation to ensure that the final water quality is improved.

WESTERN CAPE
Page 25

Water Services Authority: Knysna Local Municipality
Water Services Providers: Knysna Local Municipality

Municipal Blue Drop Score 2011: 89.76%

Chemical Compliance(12 months)

Performance Area	ν	BuffaloBay	Karatara	Knysna
	Systems			
Water Safety Planning Process &		66	71	67
Incident Response Management		00	/1	07
Process Control, Maintenance & Management Skills		76	80	96
Monitoring Programme		81	81	81
Credibility of Sample Analyses		100	100	100
Submission of Results		100	100	100
Drinking Water Quality Compliand	ce	70	100	90
Performance Publication		100	100	100
Asset Management		70	85	78
Bonus Scores		6.8	3.1	4.1
Penalties		1.8	1.5	1.5
Blue Drop Score (2011)		84.01% (1)	92.62% (↓)	90.38% (1)
Blue Drop Score (2010)		63.73%	96.62%	82.73%
System Design Supply Capacity (MI	l/d)	0.95	0.79	33.5
System Operational Capacity		13%	19%	27%
Population Served by System		1 000	4 000	42 125
Ave. Daily Consumption per Capita		124	<50	215
Microbiological Compliance(12 mor	nths)	100.00%	100.00%	97.14%
Chemical Compliance(12 months)		80.00%	94.55%	94.40%
Performance Area	Systems	Rheenenda	al	Sedgefield
Water Safety Planning Process &	Systems	Rheenenda 72	al entremental	Sedgefield 75
Water Safety Planning Process & Incident Response Management Process Control, Maintenance &	Systems		al entremental ent	
Water Safety Planning Process & Incident Response Management	Systems	72	al entre ent	75
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	Systems	72 78	al entremental ent	75 86
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	Systems	72 78 81	al entre ent	75 86 81
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses		72 78 81 100	al entre ent	75 86 81 100
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results		72 78 81 100 100	al entre ent	75 86 81 100 50
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		72 78 81 100 100 70		75 86 81 100 50 95
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication		72 78 81 100 100 70 100 70 6.5		75 86 81 100 50 95 100 78 5.2
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management		72 78 81 100 100 70 100 70		75 86 81 100 50 95 100 78
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores		72 78 81 100 100 70 100 70 6.5		75 86 81 100 50 95 100 78 5.2
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	ce	72 78 81 100 100 70 100 70 6.5 1.8		75 86 81 100 50 95 100 78 5.2 1.9
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mi	ce	72 78 81 100 100 70 100 70 6.5 1.8 84.67% (75 86 81 100 50 95 100 78 5.2 1.9 89.87% (\(\psi\))
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI System Operational Capacity	ce	72 78 81 100 100 70 100 70 6.5 1.8 84.67% (92.98% 0.648 39%		75 86 81 100 50 95 100 78 5.2 1.9 89.87% (\(\ \ \ \) 91.85% 4 70%
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI System Operational Capacity Population Served by System	ce l/d)	72 78 81 100 100 70 100 70 6.5 1.8 84.67% (92.98% 0.648 39% 3 500		75 86 81 100 50 95 100 78 5.2 1.9 89.87% (↓) 91.85% 4 70% 10 000
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI System Operational Capacity Population Served by System Ave. Daily Consumption per Capita	:ce	72 78 81 100 100 70 100 70 6.5 1.8 84.67% (92.98% 0.648 39% 3 500 72		75 86 81 100 50 95 100 78 5.2 1.9 89.87% (\$\sqrt{\psi}\$) 91.85% 4 70% 10000 280
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Misystem Operational Capacity Population Served by System	:ce	72 78 81 100 100 70 100 70 6.5 1.8 84.67% (92.98% 0.648 39% 3 500		75 86 81 100 50 95 100 78 5.2 1.9 89.87% (↓) 91.85% 4 70% 10 000

WESTERN CAPE Page 26

77.78%

96.77%

The B ue Drop perform arce of the Knysna Loca M uit palty is noted once again as rather in pressive and has perform edbetter than m out m unit palt is not bin by. Once again the scores serves as pron is of overall B ue Drop status being imminent.

However a sight overalld ecine caused the Karatarasysten to be to be to be to be taken. This decine could be accounted to the status of the water safety planning that rene and unchanged since this previous assessment in 2010. In spite of high commitment evels portrayed by officials, it is with regret that the Department of the status of the water safety planning that rene and unchanged since this previous assessment in 2010. In spite of high commitment evels portrayed by officials, it is with regret that the Department of the status of the water safety Plan process was not acted upon. This detriment is affected the scores that could have been even more in pressive than what it currently is.

It is hereby repeated that the water safety planning process is to inform an end end ent of the montoring program at onclude elements found problem at in the risk assessment. Even though not yet what it is supposed to be, the significant in provement in Albin in in is noted.

Findings

- Son eproblen aticelen ets that surfaced during the year must be investigated as part of a detailed risk assessin et toe insure that adequate controlm essures are put in place.
- 2. The inspectors found that the Mercury results (even though within acceptable in ts) were on the differing BDS submission. A penalty was not applied for this but it is being reterated that the submission of all analyses results are compulsory.

WESTERN CAPE
Page 27

Water Services Authority: Laingsburg Local Municipality
Water Services Providers: Laingsburg Local Municipality

Municipal Blue Drop Score 2011: 80.54%

Performance Area	S	Laingsburg Reservoir	Matjiesfontein Reservoir
	Systems		
Water Safety Planning Process & Incident Response Management		90	90
Process Control, Maintenance & Management Skills		90	90
Monitoring Programme		81	81
Credibility of Sample Analyses		73	76
Submission of Results		100	50
Drinking Water Quality Compliance		85	20
Performance Publication		25	25
Asset Management		93	93
Bonus Scores		2.5	5.5
Penalties		0.4	0.1
Blue Drop Score (2011)		83.69% (↑)	64.78% _(→)
Blue Drop Score (2010)		63.13%	64.63%
System Design Supply Capacity (MI/o	d)	0.5	0.5
System Operational Capacity		NI	NI
Population Served by System		6 500	500
Ave. Daily Consumption per Capita (I)	-	-
Microbiological Compliance(12 mont	hs)	97.53%	90.91% (11 months)
Chemical Compliance(12 months)		100.00% (1 month)	100.00% (1 month)

Regulatory Impression:

The Laingsburg Loca M urit palty continues to in press with its different quest towards in proven et. The Blue Drop scores achieved confines that current perform ance is definitely on the incline towards excellence which is conimined able is inceith is would be in spite of the challenges faced.

The inspectors were in pressed with the ren arkable effort to develop and in plan ential water safety planning process. The multipality is encouraged to not to rest on its laure is in this regard since the implanementation of this risk based process is all important and will have wide-spread benefits is implanementation.

Findings

1. The bw evebricon plance in the Matjesfontein system ssuggest that disinfection should be prior tised to ensure that acceptable microbiological con plance is obtained. The fibating chibr hators in the reservoirs might not be sufficient.

Water Services Authority: Langeberg Local Municipality
Water Services Providers: Langeberg Local Municipality

Ashton

Bonnievale

Montague

Municipal Blue Drop Score 2011: 32.39%

Performance Area

r orrormance / troa	710111011	Dominevale	Montague	
Systems	,			
Water Safety Planning Process &	5	5	9	
Incident Response Management	5	5	9	
Process Control, Maintenance &	23	23	23	
Management Skills Monitoring Programme	70	70	66	
Credibility of Sample Analyses	60	60	60	
Submission of Results	100	100	100	
	20	20	20	
Drinking Water Quality Compliance				
Performance Publication	0	0	0	
Asset Management	52	52	52	
Bonus Scores	1.7	1.7	1.7	
Penalties	0	0	0	
Blue Drop Score (2011)	33.50% (->)	33.50% (→)	33.58% (→)	
Blue Drop Score (2010)	NA	NA	NA	
System Design Supply Capacity (MI/d)	2.5	2.5	7.5	
System Operational Capacity	NI	NI	NI	
Population Served by System	10 000	10 000	30 000	
Ave. Daily Consumption per Capita (I)	-	-	-	
Microbiological Compliance(12 months)	93.10%	83.33%	89.47%	
Chemical Compliance(12 months)	95.45%	76.39%	9% 97.50%	
Performance Area	McGregor	McGregor Roberts		
Systems				
Water Safety Planning Process &	9		5	
Incident Response Management	,			
Process Control, Maintenance & Management Skills	25		3	
Monitoring Programme	66		66	
Credibility of Sample Analyses	60		62	
Submission of Results	100		100	
Drinking Water Quality Compliance	65		20	
Performance Publication	0		0	
Asset Management	60		52	
Bonus Scores	1.7		0	
Penalties	0		0	
Blue Drop Score (2011)	48.50% (-)	2	29.48% (->)	
Blue Drop Score (2010)	NA		NA	
System Design Supply Capacity (MI/d)	0.5		6.6	
System Operational Capacity	NI		NI	
Population Served by System	1 000		35 000	
Ave. Daily Consumption per Capita (I)	-		-	
Microbiological Compliance(12 months)	97.14%		87.50%	
Chemical Compliance(12 months)	97.30%		88.75%	

WESTERN CAPE
Page 29

Regulatory Impression:

Evidently there is sufficient reason to be leve that the M unitipality is striving towards in proven let however the scores indicates that whatever efforts are deployed, is not adequate as yet. The hadequate preparation for the Blue Drop assessment further compromised the perform large.

The bebw standard com plance evels recorded also raises concern. The developm et and im plan etation of a water safety planning process is paran ount to ensure that all isks (especially bacter big it a) are mitigated. Continuous disinfection should be sufficient to ensure the required drastic in proven et.

However recognition must be given to the in pressive approach to asset managen et. The inspectors were in pressed with the condeteness of the asset register and the planning to for refurbishment. The municipality is encouraged to subject all treatment system sto a process optimisation and twhich is a cruciale in entfor Bue Drop certification.

Findings

WESTERN CAPE

- Special attention should be given to both chenical and microbiological quality of water supply of Bonnievale.
- 2. The classification and registration of treath art facilities and process controllers are legislated requirements. The municipality is found lacking in this regard.

Page 30

Water Services Authority: Matzikama Local Municipality
Water Services Providers: Matzikama Local Municipality

Municipal Blue Drop Score 2011: 32.98%

Performance Area	(0	Ebenhaezer	Klawer	Koekenaap
	Systems			
	Sys			
Water Safety Planning Process &		23	23	23
Incident Response Management		23	25	23
Process Control, Maintenance &		27	31	13
Management Skills		45	45	45
Monitoring Programme		45		
Credibility of Sample Analyses		100	100	100
Submission of Results		20	20	50
Drinking Water Quality Compliance	9	5	78	5
Performance Publication		100	100	100
Asset Management		26	20	35
Bonus Scores		0	0	0
Penalties		2.1	2.1	1.8
Blue Drop Score (2011)		31.96% (↑)	53.21% (↑)	33.41% (>)
Blue Drop Score (2010)		30.88%	30.88%	NA
System Design Supply Capacity (MI/	'd)	NI	NI	NI
System Operational Capacity		NI	NI	NI
Population Served by System		4 288	6 137	1 347
Ave. Daily Consumption per Capita (-	-	-
Microbiological Compliance(12 mont	ths)	67.86% (4 months)	100.00% (4 months)	33.33% (3 months)
Chemical Compliance(12 months)		99.65% (10 months)	99.65% (10 months)	95.12% (11 months)
Porformanco Aroa		Lutavillo	Lutzvillo Wost	Vrodondal
Performance Area	ms	Lutzville	Lutzville West	Vredendal
Performance Area	stems	Lutzville	Lutzville West	Vredendal
	Systems	Lutzville	Lutzville West	Vredendal
Water Safety Planning Process &	Systems			
Water Safety Planning Process & Incident Response Management	Systems	Lutzville 51	Lutzville West	Vredendal 23
Water Safety Planning Process & Incident Response Management Process Control, Maintenance &	Systems			
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	Systems	51 14	29	23
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	Systems	51 14 45	29 13 45	23 13 34
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses	Systems	51 14 45 100	29 13 45 100	23 13 34 100
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results		51 14 45 100 20	29 13 45 100 0	23 13 34 100 20
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		51 14 45 100 20 5	29 13 45 100 0 5	23 13 34 100 20 5
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication		51 14 45 100 20 5	29 13 45 100 0 5	23 13 34 100 20 5
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management		51 14 45 100 20 5 100 20	29 13 45 100 0 5 100 20	23 13 34 100 20 5 100 20
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores		51 14 45 100 20 5 100 20 0	29 13 45 100 0 5 100 20	23 13 34 100 20 5 100 20 0
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties		51 14 45 100 20 5 100 20 0 21	29 13 45 100 0 5 100 20 0 2.1	23 13 34 100 20 5 100 20 0 21
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)		51 14 45 100 20 5 100 20 0 2.1 33.96% (↑)	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑)	23 13 34 100 20 5 100 20 0 21 28.54% (↑)
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	2	51 14 45 100 20 5 100 20 0 2.1 33.96% (↑) 30.38%	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑)	23 13 34 100 20 5 100 20 0 2.1 28.54% (↑) 28.08%
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/	2	51 14 45 100 20 5 100 20 0 21 33.96% (↑)	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑) N/A NI	23 13 34 100 20 5 100 20 0 2.1 28.54% (↑) 28.08% 2
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/System Operational Capacity	2	51 14 45 100 20 5 100 20 0 2.1 33.96% (↑) 30.38% NI	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑) N/A NI	23 13 34 100 20 5 100 20 0 2.1 28.54% (↑) 28.08% 2 75%
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/ System Operational Capacity Population Served by System	e e	51 14 45 100 20 5 100 20 0 21 33.96% (↑)	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑) N/A NI	23 13 34 100 20 5 100 20 0 2.1 28.54% (↑) 28.08% 2 75% 23 000
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/System Operational Capacity Population Served by System Ave. Daily Consumption per Capita (e e e e e e e e e e e e e e e e e e e	51 14 45 100 20 5 100 20 0 2.1 33.96% (↑) 30.38% NI NI 5 856	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑) N/A NI NI 1200	23 13 34 100 20 5 100 20 0 2.1 28.54% (↑) 28.08% 2 75% 23.000 65
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/ System Operational Capacity Population Served by System	e e e e e e e e e e e e e e e e e e e	51 14 45 100 20 5 100 20 0 2.1 33.96% (↑) 30.38% NI	29 13 45 100 0 5 100 20 0 2.1 29.56% (↑) N/A NI	23 13 34 100 20 5 100 20 0 2.1 28.54% (↑) 28.08% 2 75% 23 000

WESTERN CAPE
Page 31

Regulatory Impression:

The B Lie Drop Inspectors expressed concern about the milangen et of drinking water quality within the water supply system sof Milazken aloca Milazken incipality. In spite of a valiant effort of the official representing the authority, he was a lways going to be challenged to ensure a good B Lie Drop perform ances ince limited access to resources and assistance was clearly exposed. Additional tapacity is urgently required.

Extrem ely poor water quaty con plance records in Ebenhaezer and Koekenaapra is the concern that the imm uno-con promised in these two comm unties will a ways be at risk. Process optimisation is therefore an urgent requirem ent. Untils uch tim ethe Departm ent cannot have any confidence in the quality of tap water in these two towns. This dire stuation might be exaggerated due to limited montoring that took place.

Findings

- The fact that no design capacities are doom ented con promises the municipaty's ability
 to in plan enterfective asset management and relevant planning.
- 2. It is preferable that additional process controlling staff is sourced and that currently en ployed is invested in (training) to ensure that process an endn ents can time ously be implemented in order to maintain supply of water of acceptable quality.

Water Services Authority: Mossel Bay Local Municipality
Water Services Providers: Mossel Bay Local Municipality

Municipal Blue Drop Score 2011: 95.27%

Performance Area	2	Mossel Bay	Frieme	rsheim	Ruiterbos
	Systems	blue drop OURSELL Discussif Colory Reso South Programed			blue drop GASSIGE DOCUMENT Colding more shortly droggrant
Water Safety Planning Process & Incident Response Management		9	94	4	94
Process Control, Maintenance & Management Skills		94	90	0	96
Monitoring Programme		93	10	0	100
Credibility of Sample Analyses		100	10	0	100
Submission of Results		100	10	0	100
Drinking Water Quality Compliance	е	93	7(0	100
Performance Publication		100	10	0	80
Asset Management		85	9	9	85
Bonus Scores		2	3.	4	0.5
Penalties		0.1	0.	3	0
Blue Drop Score (2011)		95.33% (↑)	92.21	% (↑)	95.00% (1)
Blue Drop Score (2010)		86.09%	80.2	5%	69.25%
System Design Supply Capacity (MI/	′d)	55.5 (combined)	0.8	36	0.115
System Operational Capacity		31%	93		100%
Population Served by System		98 000	1 2		300
Ave. Daily Consumption per Capita		175 99.01%	>50		383
Chemical Compliance(12 months)	Microbiological Compliance(12 months)		100.00% 87.50%		100.00% 100.00%
chemical compliance(12 months)		100.00%	87.3	U70	100.00%
Performance Area	Systems	Hebertsdal	9	Lodewy	ykstenk(Buisplaas)
	Syst				
Water Safety Planning Process & Incident Response Management	Syst	94			94
	Syst	94			94
Incident Response Management Process Control, Maintenance &	Syst				
Incident Response Management Process Control, Maintenance & Management Skills	Syst	94			86
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	Syst	94			86
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses		94 100 100			86 58 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results		94 100 100 100			86 58 100 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		94 100 100 100 100			86 58 100 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication		94 100 100 100 100 100 80			86 58 100 100 100 80
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management		94 100 100 100 100 80 64			86 58 100 100 100 80 90
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)		94 100 100 100 100 80 64 0.8)		86 58 100 100 100 80 90 0.9
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	e	94 100 100 100 100 80 64 0.8)		86 58 100 100 100 80 90 0.9 0
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/	e	94 100 100 100 100 80 64 0.8 0)		86 58 100 100 100 80 90 0.9 0 90.83% (↑) 44.94% 0.12 (yield)
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/System Operational Capacity	e	94 100 100 100 100 80 64 0.8 0 91.90% (↑ 56.44% 1.1664 (yield))		86 58 100 100 100 80 90 0.9 0 90.83% (↑) 44.94% 0.12 (yield) 50%
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/ System Operational Capacity Population Served by System	e e	94 100 100 100 100 80 64 0.8 0 91.90% (↑)		86 58 100 100 100 100 80 90 0.9 0 90.83% (↑) 44.94% 0.12 (yield) 50% 155
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Miz System Operational Capacity Population Served by System Ave. Daily Consumption per Capital	e e	94 100 100 100 100 80 64 0.8 0 91.90% (↑ 56.44% 1.1664 (yield))		86 58 100 100 100 80 90 0.9 0 90.83% (↑) 44.94% 0.12 (yield) 50% 155 387
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/ System Operational Capacity Population Served by System	e e	94 100 100 100 100 80 64 0.8 0 91.90% (↑ 56.44% 1.1664 (yield))		86 58 100 100 100 100 80 90 0.9 0 90.83% (↑) 44.94% 0.12 (yield) 50% 155

♦ WESTERN CAPE Page 33

Regulatory Impression:

M case B ay Loca M unit palty is certainly one of the B ue Drop success stories. A water services author by that was inspired by this incentive-based regulation approach to in the et all stringent crteria with the conim edable dedication required. The Department saltes all the officials, m anagement and decision where state contributed to this remarkable enhancement in drinking water quality management. They certainly deserve the B lue Drop status for Microse libay and Ruterbos.

This municipality was seriously challenged by water shortages but this did not prevent then from continuing ensuring that the water complex with the South African Nationa Standard. This is a remarkable feat. The introduction of desaination technology as we last ground water augmentation eased the demand constraints but also introduced a new dimension for quality management.

The Ken Brak and Sandhoogte water treatment plants were subjected to a verification and t and both impressed with efficient functionality. There would be a few issues to be noted though as mentioned be by

Findings

WESTERN CAPE

- 1. The high-end techno bgy (advanced) created the limitation of visual blecking offior dosing and flash mixing efficiency. This is a risk for which a controllm easure is to be developed.
- 2. Different to expectations, the Operation and M antenance M and was not on-stellt is expected that job descriptions for plant operations be informed by the O&I m and to ensure that plant technology is operated and maintained as per the manual
- 3. The third B ue Drop certification for Frien eache in evaded this coveted status due to bw chenication plance. Process optimisation to address the Albnin in issue is urgently required.
- 4. The Water Safety Planning process is to be revised to ensure that risk ratings arean ended. It cannot be acceptable that all risk are categorised as bw priority.

Page 34

Water Services Authority: Oudtshoorn Local Municipality
Water Services Providers: Oudtshoorn Local Municipality

Municipal Blue Drop Score 2011: 36.88%

Performance Area	S	Dysselsdorp	Oudtshoorn	De Rust
	Systems			
Water Safety Planning Process & Incident Response Management		26	61	62
Process Control, Maintenance & Management Skills		15	13	3
Monitoring Programme		2 6	27	18
Credibility of Sample Analyses		100	100	100
Submission of Results		0	100	0
Drinking Water Quality Compliance		45	45	10
Performance Publication		0	10	10
Asset Management		0	0	0
Bonus Scores		0	0	0
Penalties		1.8	1.8	1.5
Blue Drop Score (2011)		26.56% (->)	37.61% (↓)	20.24% (↓)
Blue Drop Score (2010)		NA	44.13%	45.38%
System Design Supply Capacity (MI/d))	10.5	30	0.4
System Operational Capacity		NI	57%	100%
Population Served by System		15 000	97 403	2 500
Ave. Daily Consumption per Capita (I)		-	176	160
Microbiological Compliance(12 months	s)	100.00% (2 months)	86.96%	84.62% (6 months)
Chemical Compliance(12 months)		No data	100.00% (3 months)	No data

Regulatory Impression:

As host of the Ke in Karoo Nationa Arts Festiva lwhich draws big crowds of people twould be expected that the municipality would be more vigilant towards drinking water quality meagen et in its quest to protect public health Unfortunately an overall decine was recorded since the last Blue Drop assessin etc.

The Inspectors Pane hot edt he following: "The BDS was poorly populated for the virtual assessment. The

Municipality was well represented at the Confirmation Assessment, but one of the representatives had a hostile attitude and in some cases was reluctant to divulge information. The other representatives were accommodating and attempted to answer all questions posed. Unfortunately we did not receive all the information we were promised at the Confirmation Assessment and so the Blue Drop scores have remained fairly low."

Findings

- 1. The poor microbibing cation plane has becon eatrend that requires drastic measures to ensure that the health of all residents and victors are protected. Disinfection optimisation is to be done as a priority.
- 2 The municipality is encouraged to develop a portfolio of evidence during the year to ensure that all information is available for assessment. This shortcoming compromised the Blue Drop performance this as well

WESTERN CAPE Page 35 ♦ WESTERN CAPE Page 36

Water Services Authority: Overstrand Local Municipality
Water Services Providers: Overstrand Local Municipality

Municipal Blue Drop Score 2011: 90.56%

Performance Area	"	Greater	Buffelsrivier	Kleinmond	Stanford Oog
	Systems	Hermanus	blue drop 0.83940 DOCUMT Coding New Solely Surgreet		blue drop Coloration Consider State Consider Stat
Water Safety Planning Process & Incident Response Management		88	90	90	89
Process Control, Maintenance & Management Skills		80	70	80	90
Monitoring Programme		96	93	93	69
Credibility of Sample Analyses		100	100	100	100
Submission of Results		100	100	100	100
Drinking Water Quality Compliance	е	70	100	85	100
Performance Publication		100	100	100	100
Asset Management		67	88	93	93
Bonus Scores		5.5	2.1	3.0	2.1
Penalties		0.3	0	0.2	0
Blue Drop Score (2011)		87.23 %(↑)	95.07 %(↑)	93.09% (↑)	95.15% (-)
Blue Drop Score (2010)		75.31%	63.83%	60.06%	NA
System Design Supply Capacity (MIA	/d)	24	5.5	5.8	1.3
System Operational Capacity		54%	58%	43%	88%
Population Served by System		42 800	3 000	9 800	5 300
Ave. Daily Consumption per Capita		302	>500	254	215
Microbiological Compliance(12 mon	ths)	100.00%	100.00%	100.00%	100.00%
Chemical Compliance(12 months)		84.03%	96.91%	91.80%	100.00%
Performance Area	Systems	Greater Gans Bay	96.91% Buffeljagsbaai	91.80% Baardskeer- dersbos	Pearly Beach
•	Systems	Greater Gans Bay		Baardskeer-	
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance &	Systems	Greater Gans Bay blue drop section in the section of the section	Buffeljagsbaai	Baardskeer- dersbos	Pearly Beach
Performance Area Water Safety Planning Process & Incident Response Management	Systems	Greater Gans Bay blue drop COLUMN STATE OF THE PROPERTY OF	Buffeljagsbaai 88	Baardskeer- dersbos	Pearly Beach
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	Systems	Greater Gans Bay blue drop construction 90 89	Buffeljagsbaai 88 90	Baardskeer- dersbos 90 89	Pearly Beach 90 90
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	Systems	Greater Gans Bay blue drop cross of the control o	Buffeljagsbaai 88 90 70	Baardskeer- dersbos 90 89 70	90 90 100
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results		90 89 85 100 100	88 90 70 100	90 89 70 100	90 90 100 100 85
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		90 89 85 100 100	88 90 70 100 100	90 89 70 100 100	90 90 100 100 85 100
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Complianc Performance Publication		90 89 85 100 100 100	88 90 70 100 100 20	90 89 70 100 100 100	90 90 100 100 85 100
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		90 89 85 100 100	88 90 70 100 100 20 100 85	90 89 70 100 100 100 100 78	90 90 100 100 85 100
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management		90 89 85 100 100 100 81	88 90 70 100 100 20	90 89 70 100 100 100	90 90 100 100 85 100 100 93
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores		90 89 85 100 100 100 201 201 201 201 201 201 201	88 90 70 100 100 20 100 85 7.5	90 89 70 100 100 100 78 2.7	90 90 100 100 85 100 100 93 2.4
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties		90 89 85 100 100 100 2.1 0	88 90 70 100 100 20 100 85 7.5 0	90 89 70 100 100 100 78 2.7 0	90 90 100 100 85 100 100 93 2.4 0.2
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)	e	90 89 85 100 100 100 81 2.1 0 95.10% (↑)	88 90 70 100 100 20 100 85 7.5 0 75.37% (→)	Baardskeer-dersbos 90 89 70 100 100 100 78 2.7 0 93.68% (→)	90 90 100 100 85 100 100 93 2.4 0.2 94.31% (→)
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	e	90 89 85 100 100 100 2.1 0 95.10% (↑) 63.81%	88 90 70 100 100 20 100 85 7.5 0 75.37% (→)	Baardskeer- dersbos 90 89 70 100 100 100 78 2.7 0 93.68% (→)	90 90 100 100 85 100 100 93 2.4 0.2 94.31% (->)
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mil.	e	Greater Gans Bay	88 90 70 100 100 20 100 85 7.5 0 75.37% (>) NA 0.08	Baardskeer- dersbos 90 89 70 100 100 100 78 2.7 0 93.68% (→) NA 0.15	90 90 100 100 85 100 100 93 2.4 0.2 94.31% (-) NA 1.5
Performance Area Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (Mi. System Operational Capacity	e e	90 89 85 100 100 100 81 2.1 0 95.10% (↑) 63.81% 6.5 62%	88 90 70 100 100 20 100 85 7.5 0 75.37% (→) NA 0.08 100%	Baardskeer- dersbos 90 89 70 100 100 100 78 2.7 0 93.68% (→) NA 0.15 17%	90 90 100 100 85 100 100 93 2.4 0.2 94.31% (>) NA 1.5 24%

100.00%

100.00%

100.00%

100.00%

Chemical Compliance(12 months)

The in proven et of Overstrand Loca M unit palty's Blue Drop perforn arce is most renarkable, since obtaining the recognition in term sof certification for 3 system stakes commerciable commitment. This dedication evidently goes beyond the objective of regulatory recognition for excellent drinking water quality management, but has been adopted as the norm for business henceforth. The Department with to applied this approach

There however ren and so room for in proven ext. It is required that attention is given to treath ext optimisation in Greater Hem and so and Kleim on ond one ensure that the chemical on plance trend in provestowards the national standard expectation.

The techn calver fication (Preekstoe) revealed the following findings:

- 1. A good bgbook systen is being in the ented but unfortunately selective recordings are made it was found that equipnent failure and other events were not captured in this book. The same egoes for the expensive in line montoring devices of which not a lineadings are captured. Also no recordings on regular operations, such as desiding which is required to ensure effective treatment.
- The efficacy of the sand-filtration is questioned since Back-up b bwers not being in working order and filter miledianot being up to standard either.

WESTERN CAPE
Page 37

Water Services Authority: Prince Albert Local Municipality
Water Services Providers: Prince Albert Local Municipality

Municipal Blue Drop Score 2011: 70.72%

Performance Area	Klaarstroom	Leeugamka	Prince Albert
Water Safety Planning Process & Incident Response Management	88	80	88
Process Control, Maintenance & Management Skills	69	35	75
Monitoring Programme	81	81	81
Credibility of Sample Analyses	66	67	65
Submission of Results	100	100	100
Drinking Water Quality Compliance	20	65	65
Performance Publication	75	75	75
Asset Management	32	32	32
Bonus Scores	6.1	4.7	3.9
Penalties	0	0.2	0.1
Blue Drop Score (2011)	60.86%(↓)	69.65%(↑)	73.00% (↑)
Blue Drop Score (2010)	62.75%	55.25%	47.00%
System Design Supply Capacity (MI/d)	NI	0.5	2.5
System Operational Capacity	NI	NI	NI
Population Served by System	3 000	3 000	9 000
Ave. Daily Consumption per Capita (I)	-	-	-
Microbiological Compliance(12 months)	88.46% (11 months)	96.15% (11 months)	96.46% (11 months)
Chemical Compliance(12 months)	100.00% (11 months)	93.06% (11 months)	100.00% (4 months)

Regulatory Impression:

The perform arce in provem et of Prince A bert Loca M unit palty is ren arkable, even more so when considering the fact that this is a sm alm unit palty with limited resources and economic investment. The Department salutes the dedication of the officials responsible for the treatment and morangement of drinking water.

There ren i and space for improven i et according to the following findings:

Findings

- 1. The microbiologication plance of the Kharstroon system is we libe bw the expected standard. The minicipality is required to in proved is infection.
- 2. The water safety p anning process still equires a full SANS 241 to inform on a it he poss b be risks, which needs to be included as part of the monitoring program me
- Asset m anagen entim ust be in proved; commerce by ensuring that a linequired information necessary for planning and managen entiare sourced and used to ensure effective use of infrastructure.

Water Services Authority: Saldanha Bay Local Municipality

Water Services Providers: West Coast DM *

Municipal Blue Drop Score 2011: 87.69%

Performance Area	Saldanha Bay ^a
Systems	
Water Safety Planning Process & Incident Response Management	74
Process Control, Maintenance & Management Skills	95
Monitoring Programme	89
Credibility of Sample Analyses	80
Submission of Results	100
Drinking Water Quality Compliance	80
Performance Publication	75
Asset Management	88
Bonus Scores	4.4
Penalties	0
Blue Drop Score (2011)	87.69% (↑)
Blue Drop Score (2010)	80.84%
System Design Supply Capacity (MI/d)	72
System Operational Capacity	72%
Population Served by System	83 323
Ave. Daily Consumption per Capita (I)	>500
Microbiological Compliance(12 months)	93.75%; WSP: 98.36%
Chemical Compliance(12 months)	100.00%; WSP: 98.31%

Regulatory Impression:

Sa danha Bay Loca M unit palty together with great support of the W est CoastD istrict M unit palty is performing rather well in con plying with the stringent criteria set by this regulation program meWith slight intensification of current process, the coveted Blue Drop status is imminent.

Findings

1. The Microbio bgication plance in the reticulation system requires further improven et. The Loca M unitipality is required to do a proper risk assessment (as per water safety plan requiren ets), and to implen et controlm easures that will ensure in proven et in quality. The con prehensive monitoring program est found to be in pressive.

WESTERN CAPE
 Page 39

Water Services Authority: Stellenbosch Local Municipality
Water Services Providers: Stellenbosch LM; City of Cape Town

Municipal Blue Drop Score 2011: 95.74%

Chemical Compliance(12 months)

Performance Area	Stellenbosch	Franschoek	Blackheath ^a	
	blue drop GASSELE GOALD TO BEAUTH		blue drop 0.53 FEE DECLIDIT Column to skyl flywgrant	
Water Safety Planning Process &	100	100	92	
Incident Response Management Process Control, Maintenance &				
Management Skills	70	70	90	
Monitoring Programme	100	100	100	
Credibility of Sample Analyses	100	100	100	
Submission of Results	100	100	100	
Drinking Water Quality Compliance	100	0	98	
Performance Publication	100	100	100	
Asset Management	93	82	85	
Bonus Scores	1.2	10.8	1.5	
Penalties	0	0.2		
Blue Drop Score (2011)	97.11% (1)	75.02% (↓)	96.34% (1)	
Blue Drop Score (2010)	95.02%	94.11%	NA	
System Design Supply Capacity (MI/d)	38 (combined)	2	430	
System Operational Capacity	71%	100%	44%	
Population Served by System	85 000	12 000	5 000	
Ave. Daily Consumption per Capita (I)	317	166	>500	
Microbiological Compliance(12 months		86.57%	100.00%	
Chemical Compliance(12 months)	95.45%	84.21% (4 months)	99.48%	
Performance Area	Faure a blue drop control of the con		Wemmershoek ^a	
Water Safety Planning Process & Incident Response Management	100		95	
Process Control, Maintenance &	90		94	
Management Skills	89		78	
Monitoring Programme Credibility of Sample Analyses	100		100	
Submission of Results	100		100	
Drinking Water Quality Compliance	100		88	
Performance Publication	100		100	
Periormance Publication	100		88	
Asset Management	85		88	
			88 2.4	
Asset Management	85			
Asset Management Bonus Scores	85 1.2)	2.4	
Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	85 1.2 0)	2.4 0	
Asset Management Bonus Scores Penalties	85 1.2 0 96.79% (↑)	2.4 0 93.40% (↑)	
Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	85 1.2 0 96.79% (↑)	2.4 0 93.40% (↑)	
Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/d)	85 1.2 0 96.79% (↑ NA 450)	2.4 0 93.40% (↑) NA 250	
Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/d) System Operational Capacity	85 1.2 0 96.79% (↑ NA 450 51% 2 5 40 > 500)	2.4 0 93.40% (↑) NA 250 78%	

WESTERN CAPE Page 40

100.00%

99.48%

Stellenbosch, together with the City of Cape Town (bulk provider in 3 system), was found to mild anged rinking water quality in excellent fash on. This ensured the allocation of Blue Drop certification in 3 of the 5 water supply system is The Department wish to congratulate these minimizes on this prestigious achievem etc.

The water quality con plance in Franschoek is however sub-standard; records in ply both chen icaland microbiological on plance to be we lout of range. It is required that this matter is prioritised for urgent in proven et.

♦ WESTERN CAPE Page 41

Water Services Authority: Swartland Local Municipality
Water Services Providers: West Coast DM

Municipal Blue Drop Score 2011: 92.89%

Performance Area	Malmesbury ^a	Moorreesburg / Koringberg a
Systems		
Water Safety Planning Process & Incident Response Management	76	64
Process Control, Maintenance & Management Skills	89	89
Monitoring Programme	94	94
Credibility of Sample Analyses	93	93
Submission of Results	100	100
Drinking Water Quality Compliance	85	93
Performance Publication	100	100
Asset Management	100	97
Bonus Scores	3.1	3.0
Penalties	3.1	1.2
Blue Drop Score (2011)	92.88% (个)	92.90% (↑)
Blue Drop Score (2010)	71.94%	71.94%
System Design Supply Capacity (MI/d)	72	72
System Operational Capacity	72%	72%
Population Served by System	23 650	4 950
Ave. Daily Consumption per Capita (I)	-	-
Microbiological Compliance(12 months)	100.00%; WSP: 97.78%	100.00% (11 months); WSP: 97.78%
Chemical Compliance(12 months)	98.21%	97.21%

Regulatory Impression:

A massive in proven entwas recorded since the last B lue Drop assessment; this can be accounted to the enhanced commit ent of officials from both Swartland and West Coast multipalties. Both these system sare on verge of being certified with the coveted B lue Drop status. The Department wish to congratulate these multipalties with this excellent performance and would encourage then to proceed in the similar fashion.

Another comm endable issue would be the approacht of asset management. The Wilder Services Audit report together with a detailed asset register impressed since it contained all echnical information as required by the Blue Drop requirements.

It however very unfort unate that the inspectors detected that at least one failure (result) was selectively on the from being submitted onto the BDS. This prevented the M am asburys ystem from an even better score under the TaV Q. Com plance Requirem et.

Findings

- The Swart and Loca M uit palty is encouraged to expand to m ontoring of chenical determinands at critical control points within the reticulation system. Currently no chenical montoring is recorded within the reticulation system. Those results reported stenisfron the Wiest Coast District Minicipality's montoring program mile.
- The finding of data subn is on was discussed. It is reterated that alt on plance analyses
 results should be subn. tted to the Departn. et.

Water Services Authority: Swellendam Local Municipality
Water Services Providers: Swellendam Local Municipality

Municipal Blue Drop Score 2011: 80.50%

Performance Area	Swellendam	Buffeljags- rivier	Suurbrak	Barrydale
Ś				
Water Safety Planning Process & Incident Response Management	86	81	89	81
Process Control, Maintenance & Management Skills	79	70	50	80
Monitoring Programme	89	74	46	50
Credibility of Sample Analyses	100	100	100	100
Submission of Results	100	100	100	100
Drinking Water Quality Compliance	90	20	0	3
Performance Publication	100	100	100	80
Asset Management	85	51	61	45
Bonus Scores	1.4	0	6.5	6.7
Penalties	0.3	0.3	0.6	0.5
Blue Drop Score (2011)	90.94% (1)	60.14% (↓)	58.48% (↓)	57.33% (↓)
Blue Drop Score (2010)	67.00%	71.00%	60.55%	65.50%
System Design Supply Capacity (MI/d)	4.8	0.24	0.5	1.4
System Operational Capacity	65%	58%	40%	64%
Population Served by System	30 000	2 500	10 000	10 000
Ave. Daily Consumption per Capita (I)	104	56	<50	90
Microbiological Compliance(12 months)	97.78%	93.33%	88.89% (8 months)	91.67% (9 months)
Chemical Compliance(12 months)	100% (11 months)	100% (10 months)	100.00%	100.00%

Regulatory Impression:

The municipality managest he Swellendan system with the required excellence but unfortunately similar performance is not duplicated in the other 3 system is Even though reasonably good scores were achieved recorded microbiological conplances are not according to expectations.

The inspectors were verym with in pressed with anexceptional effort to getwater safety planning process in place. The more pality is reminded that the continuation of this risk-based approach is paramount. The quality of drinking water supplied by the system sof Buffeljagsrivier, Suurbark and Barrydale will be neft from effective water safety planning in plan entation. Will have in pressive this certainly not perfect as yet.

Findings

- The montoring programme is yet to be in proved according to the risk based water safety planning process. A full ANS 241 is to be done during the season of highest risk (e.g. after fistrains) to inform riske in erts that should be included in the montoring programme.
- The inspectors were not convinced that site-specific operations and minimum ance minimum are in place at a lof the treatment facilities. The municipality is to ensure that process controllers are conversant with the content of these minimum as.

WESTERN CAPE
Page 43

Water Services Authority: Theewaterskloof Local Municipality
Water Services Providers: Theewaterskloof LM; Overberg Water

Municipal Blue Drop Score 2011: 75.41%

Chemical Compliance(12 months)

Performance Area	Botrivier	Genadendal	Genadendal
	Systems	(Voorstede)	
	Sys	, i	
Water Safety Planning Process &	55	53	53
Incident Response Management	- 55		33
Process Control, Maintenance & Management Skills	73	35	35
Monitoring Programme	55	44	44
Credibility of Sample Analyses	83	100	82
Submission of Results	100	100	100
Drinking Water Quality Compliance		20	100
Performance Publication	80	80	80
Asset Management	23	35	55
Bonus Scores	4.7	7.7	4.2
Penalties	1.1	0.2	0.2
Blue Drop Score (2011)	76.39% (↑)	52.31% (↑)	75.33% (↑)
Blue Drop Score (2010)	59.94%	30.94%	35.94%
System Design Supply Capacity (MI/	d) 1.6	0.4	1.84
System Operational Capacity	106%	50%	NI
Population Served by System	4 952	2 105	8 515
Ave. Daily Consumption per Capita (95	164
Microbiological Compliance(12 mont		91.67%	96.77%
Chemical Compliance(12 months)	100.00%	100.00%	100.00%
Performance Area			
PELITIMIANCE ALEX	Grahouw	Greyton	Riversonderend a
Performance Area	Grabouw	Greyton	Riversonderend ^a
	Grabouw	Greyton	Riversonderend ^a
Water Safety Planning Process &	Grabouw 53	Greyton 53	Riversonderend ^a
Water Safety Planning Process & Incident Response Management	Systems 53	53	53
Water Safety Planning Process & Incident Response Management Process Control, Maintenance &	Systems	·	
Water Safety Planning Process & Incident Response Management	Systems 53	53	53
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills	53 33	53	53 35
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	53 33 66	53 75 55	53 35 51
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses	53 33 66 80 100	53 75 55 66	53 35 51 81
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results	53 33 66 80 100	53 75 55 66 100	53 35 51 81 100
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance	53 33 66 80 100 70	53 75 55 66 100 100	53 35 51 81 100 70
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication	53 33 66 80 100 70 80	53 75 55 66 100 100 80	53 35 51 81 100 70 80
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management	53 33 66 80 100 70 80 15	53 75 55 66 100 100 80 55	53 35 51 81 100 70 80 43
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties	53 33 66 80 100 70 80 15 6.1 1.1	53 75 55 66 100 100 80 55 4.1 0.9	53 35 51 81 100 70 80 43 6.6
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011)	\$ 53 \$ 33 \$ 66 \$ 80 \$ 100 \$ 70 \$ 80 \$ 15 \$ 6.1 \$ 1.1 \$ 64.10% (↑)	53 75 55 66 100 100 80 55 4.1 0.9 79.58% (↑)	53 35 51 81 100 70 80 43 6.6 1.1 67.52% (↑)
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	53 33 66 80 100 70 80 15 6.1 1.1 64.10% (↑) 51.94%	53 75 55 66 100 100 80 55 4.1 0.9	53 35 51 81 100 70 80 43 6.6
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/	53 33 66 80 100 70 80 15 6.1 1.1 64.10% (↑) 51.94%	53 75 55 66 100 100 80 55 4.1 0.9 79.58% (↑) 35.94%	53 35 51 81 100 70 80 43 6.6 1.1 67.52% (↑) 55.44%
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)	53 53 33 66 80 100 70 80 15 6.1 1.1 64.10% (↑) 51.94% d) 6	53 75 55 66 100 100 80 55 4.1 0.9 79.58% (↑) 35.94% 2.9	53 35 51 81 100 70 80 43 6.6 1.1 67.52% (个) 55.44% 2.4
Water Safety Planning Process & Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI// System Operational Capacity	53 33 66 80 100 70 80 15 6.1 1.1 64.10% (↑) 51.94% d) 6 87% 56 244	53 75 55 66 100 100 80 55 4.1 0.9 79.58% (↑) 35.94% 2.9 NI	53 35 51 81 100 70 80 43 6.6 1.1 67.52% (↑) 55.44% 2.4 142%

WESTERN CAPE Page 44

97.30%

89.53%

73.40%

Performance Area	Systems	Tesselaarsdal	Villiersdorp	Caledon ^a (Overberg)
Water Safety Planning Process & Incident Response Management		53	53	63
Process Control, Maintenance & Management Skills		73	38	98
Monitoring Programme		44	51	93
Credibility of Sample Analyses		76	73	75
Submission of Results		100	100	90
Drinking Water Quality Compliance	:	100	44	78
Performance Publication		80	80	80
Asset Management		35	35	97
Bonus Scores		4.8	7.0	3.6
Penalties		0.9	1.1	1.1
Blue Drop Score (2011)		76.36% (↑)	58.90% (↓)	88.62% (1)
Blue Drop Score (2010)		59.94%	66.69%	86.63%
System Design Supply Capacity (MI/	d)	0.12	2.9	9.5
System Operational Capacity		100%	100%	63%
Population Served by System		1 151	11 123	18 024
Ave. Daily Consumption per Capita (I)	104	261	332
Microbiological Compliance(12 mont	hs)	100.00%	94.44%	97.20%
Chemical Compliance(12 months)		100.00%	100.00%	99.35%

Overalt he Bue Drop perform are of Thee watersk bof Loca M unit palty in poved significantly. The Department therefore wishes to salute this commendable dedication which makes enhancement of this kind possible.

However there ren in is room for considerable in-roads to be made in the various areas of the stringent crteria set. This will n y be possible for a concerted effort of both officials (no aragen et and practitioners) and decisioner aloes generate mon etton towards the target of excellence. It is noted that the joint effort between Thee watersk bof and Overberg Worder once again ensured for a reasonable good showing under the Caledon water supply system.

Findings

- 1. The water safety plan tabled at the assessment was found to be pronising, a ining in the right direction, but with various elengers still to be included or in proved. The montoring program is should be informed by the identified risks and critical control points identified through this process.
- 2. The naming of water supply system sare recommended to be revised to rather describe the area supplied with water instead of the water treatment plant descriptor. This is a mere recommendation.
- 3. The montoring of free ch brine evels in all system six required
- 4. The operations at the Grabou witreath et plant are far from desirable. The condition of the plant requires urgent attent on and investorer. It does not bode we like the facility treating drinking water to be in such a state.
- 5. A non ber of system sareoperating at or over design capacity. This is an unsustainable situation that requires planning for significant capital investing et to continuously secure the supply of safedrinking water.

WESTERN CAPE
Page 45

Water Services Authority: West Coast District Municipality
Water Services Providers: West Coast District Municipality

Municipal Blue Drop Score 2011: 97.08%

Chemical Compliance(12 months)

Performance Area	S	Algeria	Bitterf	ontein	Kliprand
	Systems			ue drop	
Water Safety Planning Process & Incident Response Management		98	10	00	100
Process Control, Maintenance & Management Skills		74	9	8	13
Monitoring Programme		0	10	100 15	
Credibility of Sample Analyses		100	10	100 100	
Submission of Results		0	10	100 0	
Drinking Water Quality Compliance		5	10	00	63
Performance Publication		25	10		100
Asset Management		48	7		40
Bonus Scores		0	0.		3.2
Penalties		0.3	(0.5
Blue Drop Score (2011)		38.15% (>)	95.61	% (↑)	60.69% (↑)
Blue Drop Score (2010)	,	NA	60.4	13%	NA
System Design Supply Capacity (MI/c	d)	0.12	0.6 (\	rield)	0.12 (yield)
System Operational Capacity		NI	37		NI
Population Served by System		100	7 1		490
Ave. Daily Consumption per Capita (I		-	30		-
Microbiological Compliance(12 month	hs)	41.67% (3 months) 97.69%			100.00% (3 months)
Chemical Compliance(12 months)		100.00% (1 month)	95.0	00%	93.33% (1 month)
Performance Area		Swartland			Withoogte
	S	(Bulk System)			(Bulk System)
	Systems	A			A
		blue drop			blue drop
	Ş	blue drop GERRED SCHOOL DOT Doing Date Costs Mesupered			blue drop USS-UD DOCUMENT Code by Broy droy droy and
Water Safety Planning Process & Incident Response Management	Ś				
	S	SCENED SCELLON Conting their Costs) disruptives			CASS-UP DEGLIGHT Coding New Zerly Paragrand
Incident Response Management Process Control, Maintenance &	S	TENED TO THE PROPERTY OF THE P			TANKE CALL THE PROPERTY CONTRACTOR OF THE PROPER
Incident Response Management Process Control, Maintenance & Management Skills	S	93 95			100 98
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme	S	93 95 100			100 98 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses		93 95 100 100			100 98 100 100 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results		93 95 100 100 100			100 98 100 100 100 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance		93 95 100 100 100 96			100 98 100 100 100 100 88
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication		93 95 100 100 100 96			100 98 100 100 100 100 100 88 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management		93 95 100 100 100 96 100 100			100 98 100 100 100 100 100 88 100 100 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores		93 95 100 100 100 100 100 100 00 100 00 100 100 100 100			100 98 100 100 100 100 100 100 100 0.8
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010)		93 95 100 100 100 100 96 100 0.4 0 97.42% (↑			100 98 100 100 100 100 100 100 1
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/o		93 95 100 100 100 100 100 96 100 0.4 0 97.42% (↑			100 98 100 100 100 100 100 100 0.8 0 96.96% (↑) NA 72
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/c) System Operational Capacity		93 95 100 100 100 100 100 96 100 0.4 0 97.42% (↑ NA 29.1 60%			100 98 100 100 100 100 88 100 100
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/O System Operational Capacity Population Served by System	14)	93 95 100 100 100 100 96 100 0.4 0 97.42% (↑ NA 29.1 60% 77.524			100 98 100 100 100 100 100 100 0.8 0 96.96% (↑) NA 72 72% 124 000
Incident Response Management Process Control, Maintenance & Management Skills Monitoring Programme Credibility of Sample Analyses Submission of Results Drinking Water Quality Compliance Performance Publication Asset Management Bonus Scores Penalties Blue Drop Score (2011) Blue Drop Score (2010) System Design Supply Capacity (MI/c) System Operational Capacity	dd)	93 95 100 100 100 100 100 96 100 0.4 0 97.42% (↑ NA 29.1 60%			100 98 100 100 100 100 88 100 100

WESTERN CAPE Page 46

98.21%

98.31%

West Coast District Mouncipality seriously in pressed with its dedicated perform ance as a Buk Water Services Provider. This renearkable perform ance translated into a non ber of system she higher certified with Blue Drop status. The Department wishes to salute the attitude that served as catalyst for this significant improvements ince the last assessments.

The regaining of Bue Drop status for Btterfontein (where W et Coast DM is both authority and provider) serves as further evidence of the discussed leve by dedication. The inspectors were in pressed by the recept iveness of theofficial storecon mendations made by the regulator. E.g. an end ets were swiftly made on the Bue Drop System (BDS) to ensure a dherence to regulatory expectations.

On the municipality's request the Department partook in the endeavour to improve the complance stuation in Algiers. The Municipality's intervention included community consultation which has been conducted in commendable fashion. The introduction of disinfection wills urely ensure massive improven ents within the next reporting cycle. The same eleve by commin entiex pected for the water supply of Kiprand.

WESTERN CAPE
Page 47

Water Services Authority: Witzenberg Local Municipality
Water Services Providers: Witzenberg Local Municipality

Municipal Blue Drop Score 2011: 97.56%

Chemical Compliance(12 months)

Performance Area	္ထ Ceres	Wolsle	Tulbagh	
	blue drop CASSILLE DECLORATION COLORATION COLORATI	blue drop OSSURE CROUNT CROUNT CROUNT Progress	blue drop QUESTIFUE DOCUMENT Coding Name backy brongered	
Water Safety Planning Process & Incident Response Management	91	100	100	
Process Control, Maintenance & Management Skills	100	80	80	
Monitoring Programme	100	100	100	
Credibility of Sample Analyses	98	98	99	
Submission of Results	100	100	100	
Drinking Water Quality Compliance	100	100	90	
Performance Publication	100	100	100	
Asset Management	100	82	100	
Bonus Scores	0.1	1.4	0.9	
Penalties	1.8	1.8	1.9	
Blue Drop Score (2011)	98.75%(↑)	96.55%(↑)	95.68%(↑)	
Blue Drop Score (2010)	96.15%	89.75%	92.00%	
System Design Supply Capacity (MI/d)		7	2.76	
System Operational Capacity	99%	34%	64%	
Population Served by System	41 339	10 132	64	
Ave. Daily Consumption per Capita (I)	251	235	-	
Microbiological Compliance(12 months	100.00%	100.00%	100.00%	
Chemical Compliance(12 months)	100.00%	100.00%	100.00%	
Performance Area	Op Die Be	rg Pri	blue drop	
Water Safety Planning Process &	Cooking Date Cooking Watergree		100	
Incident Response Management	100		100	
Process Control, Maintenance & Management Skills	90		80	
Monitoring Programme	100		100	
Credibility of Sample Analyses	97		97	
Submission of Results	100		100	
Drinking Water Quality Compliance	80		100	
Performance Publication	100		100	
Asset Management	100		100	
Bonus Scores	2.1			
Penalties	2.1		1.9	
Blue Drop Score (2011)	95.00%(1	^)	98.19%(↑)	
Blue Drop Score (2010)	93.50%		95.00%	
System Design Supply Capacity (MI/d)	0.61		2	
System Operational Capacity	52%		90%	
Population Served by System	3 122		6 457	
Ave. Daily Consumption per Capita (I)	102		279	
Microbiological Compliance(12 months	96 30%	96.30%		
iviici obiologicai compliance(12 months	50.50%		100.00%	

WESTERN CAPE
 Page 48

100.00%

100.00%

Once again an impressive perform are by Witzenberg Loca Municipality. The Department wish to congratuate this water services authority (Wilself) which has proven that the size of a municipality is not to be the determining factor of the success within the Blue Drop Certification program medium rather the dedication to diligently adhere to the stringent or teriaset.

In the words of the Lead Inspector: "The WSA has shown high level of commitment throughout the

whole process. The officials have put more effort in the preparation for the 2010/11 assessment; this was proven based on the availability and the quality of the information presented during the on-site assessment and the information on the Blue Drop System. The level of commitment from the management of the contributed for while the management which can be used as a case study

This perform ance just fies a place in the National Top 10 Blue Drop perform es.