

RUSTENBURG WATER SERVICES TRUST



QUARTERLY PERFORMANCE REPORT 1 JULY TO 25 SEPTEMBER 2020

Prepared for:



Contact Person:

Mr Pet Maas
Cell: 083 445 7287
E-mail: pet.maas@Tigros.co.za

Prepared by:



Contact Person:

Mr R Fowler
Tel: 012 842 8700
Cell: 083 407 4588
E-mail: Reinhart.Fowler@bigengroup.com

LIST OF CONTENTS

1.	TERMS OF REFERENCE FOR THE RUSTENBURG WATER SERVICES TRUST (RWST).....	3
2.	PERFORMANCE PLAN SCORECARD FOR THE RWST.....	4
2.1	Key Performance Area (KPA 5): Basic Services and Infrastructure Development.....	4
	Signatures.....	7
2.2	KPI 1: NUMBER OF SEWER PURIFICATION PLANTS OPERATED IN TERMS OF AGREED STANDARDS.....	8
2.3	KPI 2: PLANT AVAILABILITY: NUMBER OF SEWER PURIFICATION PLANTS MAINTAINED IN TERMS OF AGREED STANDARDS.	8
2.4	KPI 3: PERCENTAGE COMPLETION OF SEWER PURIFICATION PLANTS UPGRADING PROJECTS (BOITEKONG).....	9
2.5	KPI 4: VOLUME OF TREATED WASTE WATER SUPPLIED TO THE INDUSTRIAL WATER OFF-TAKERS IN TERMS OF THE OFF-TAKE AGREEMENT.....	10
2.6	KPI 5: PERCENTAGE COMPLIANCE IN THE TREATMENT OF SEWERAGE AT WASTE WATER TREATMENT WORKS IN TERMS OF DWS LICENSE AGREEMENT.....	11
2.7	KPI 6: NUMBER OF WATER TREATMENT WORKS OPERATED.....	17
2.8	KPI 7: NUMBER OF WATER TREATMENT WORKS MAINTAINED	18
2.9	KPI 8: PERCENTAGE COMPLETION OF WATER TREATMENT PLANTS - CIVIL WORKS.....	19
2.10	KPI 9: VOLUME OF POTABLE WATER SUPPLIED TO RLM IN ACCORDANCE WITH THE WATER SUPPLY AGREEMENT	19
2.11	KPI 10: PERCENTAGE COMPLIANCE IN THE TREATMENT OF WATER FOR POTABLE USE IN TERMS OF DWS STANDARDS	20
3.	FINANCIAL PERFORMANCE.....	23

PERFORMANCE REPORT FOR RUSTENBURG LOCAL MUNICIPALITY ON THE RUSTENBURG WATER SERVICES TRUST FOR THE PERIOD 1 JULY 2020 TO 25 SEPTEMBER 2020.

1. TERMS OF REFERENCE FOR THE RUSTENBURG WATER SERVICES TRUST (RWST).

The following report is the result of a performance assessment of the Rustenburg Water Services Trust, for the 3-month period from 1 July 2020 to 25 September 2020. The report takes into account Treasury Guidelines dated May 2007 (ISBN: - 978-0-621-37152-9) entitled, "Framework for Managing Programme Performance Information." The Trust is committed to adhering to these guidelines.

The five purposes/objectives of the Trust is captured in the Business Plan, the Strategic plan and Trust Deed and as such is as follows:

1. To procure the design for the required plant extension;
2. To procure the construction and oversee implementation;
3. To Operate and Maintain the following treatment plants:
 - Rustenburg waste water treatment works,
 - Boitekong waste water treatment works,
 - Monakato waste water treatment works,
 - Lethabong waste water treatment works,
 - Bospoort water treatment works,
 - Kloof water treatment works,

In the most cost effective manner and for the purposes of maximizing the Trust Income to be distributed to the Beneficiary;

4. To provide potable water to RLM in accordance with the Water Services Agreement; and
5. To Supply treated water to the industrial water off-takers in terms of the Off Take agreements.

2. PERFORMANCE PLAN SCORECARD FOR THE RWST

2.1 Key Performance Area (KPA 5): Basic Services and Infrastructure Development

Key Focus Area/Goal	Strategies	Area/Ward Serviced	KPI No:	IDP Ref	Weight	Key Performance Indicator (KPI)	Baseline 2020/21	Portfolio of Evidence	2020 / 21 Annual Target	Annual Budget 2020 / 21 R'000	Period	Target	Performance	Score	Reasons for Variance (if any)	Remedial Measures
1. MUNICIPAL STRATEGIC PRIORITY: Develop and sustain a spatial, natural and built environment																
1.1. Municipal Strategic Objective: Accelerated delivery and maintenance of quality basic and essential services to all Communities																
WATER SERVICES																
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Sewer Purification	14, 15, 16 , 20, 21, 25, 27, 28	1	OBJ 3	5	Number of functional sewer purification plants operated in terms of Trust Deed	4	4 x log sheets of volumes of purification plants for Boitekong, Lethabong, Rustenburg and Monakato.	4	R74.2	Q1	4	4	3	N/A	N/A
											Q2					
											Mid-Year					
											Q3					
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Sewer Purification	14, 15, 16 , 20, 21, 25, 27, 28	2.1	OBJ 3	5	Number of sewer purification plants maintained in terms of the Trust Deed	4	Maintenance history for Boitekong, Lethabong, Rustenburg and Monakato.	4	R13.3	Q1	4	4	3	N/A	N/A
											Q2					
											Mid-Year					
											Q3					
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Sewer Purification	14, 15, 16 , 20, 21, 25, 27, 28	2.2	OBJ 3	5	Plant availability of sewer purification plants maintained in terms of agreed standards	85%	Reports of 4 plants, assessing 10 selected items	85%	R13.3	Q1	85%	96.2%	3	N/A	N/A
											Q2					
											Mid-Year					
											Q3					
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Sewer Purification	20, 21	3	OBJ 2	10	Boitekong upgrade, completed 2019/2020	100% completed 2019/2020	Engineer's Completion Certificate	N/A - 100% completed 2019/2020	-	Q1	N/A	N/A	N/A	Project completed 2019/2020	N/A
											Q2					
											Mid-Year					
											Q3					

Key Focus Area/Goal	Strategies	Area/Ward Serviced	KPI No:	IDP Ref	Weight	Key Performance Indicator (KPI)	Baseline 2020/21	Portfolio of Evidence	2020 / 21 Annual Target	Annual Budget 2020 / 21 R'000	Period	Target	Performance	Score	Reasons for Variance (if any)	Remedial Measures	
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Waste Water Supply	14,15,16	4	OBJ 5	10	Volume of treated waste water supplied to the industrial water off-takers in terms of the Off-take Agreement	Average 25Ml/day	Anglo & Impala log sheets	Average 25Ml/day	R66.2	Q1	25 Ml/day	23.84 Ml/d	3	N/A	N/A	
											Q2						
											Mid-Year						
											Q3						
											Q4						
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Waste Water Supply	All	5	OBJ 3	10	Percentage compliance in the treatment of sewerage at Waste Water Treatment Works in terms of Anglo/DWS license agreement	90%	4 tables on water quality + lab certificates	90%	R61.5	Q1	90%	76.9%	2	Operational challenges	Improved Operations and management	
											Q2						
											Mid-Year						
											Q3						
											Q4						
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Water Purification	All	6	OBJ 3 + 4	5	Number of water treatment works operated	2	2 x log sheets of volumes for Bospoort and Kloof	2	R43.5	Q1	2	2	3	N/A	N/A	
											Q2						
											Mid-Year						
											Q3						
											Q4						
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Water Purification	All	7.1	OBJ 3 + 4	5	Plant availability: Number of water treatment works maintained	85%	2 reports for Bospoort and Kloof assessing 10 selected items	85%	R13.3	Q1	85%	100%	3	N/A	N/A	
											Q2						
											Mid-Year						
											Q3						
											Q4						
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Water Purification	All	7.2	OBJ 3 + 4	5	Plant maintenance of water treatment works maintained	2	Maintenance history for Bospoort and Kloof	2	R13.3	Q1	2	2	3	N/A	N/A	
											Q2						
											Mid-Year						
											Q3						
											Q4						

Key Focus Area/Goal	Strategies	Area/Ward Serviced	KPI No:	IDP Ref	Weight	Key Performance Indicator (KPI)	Baseline 2020/21	Portfolio of Evidence	2020 / 21 Annual Target	Annual Budget 2020 / 21 R'000	Period	Target	Performance	Score	Reasons for Variance (if any)	Remedial Measures
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Water Purification	All	8	OBJ 2	10	Percentage completion of water treatment plants - civil works upgrading project (Bospoort)	100%	Engineers take over certificate	Target is remaining 3% to completion.	R7.7	Q1	3%	0%	0	Covid-19 related, labour issues	N/A
											Q2					
											Mid-Year					
											Q3					
											Q4					
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Water Supply	All	9	OBJ 4	10	Volume of potable water supplied to RLM in accordance with the Water Supply Agreement	Average 12.6 MI/day	2 x log sheets for Bospoort and Kloof	Average 12.6 MI/day	R43.5	Q1	Average 12.6 MI/day	Average 11.29 MI/day	3	No production at Kloof due to no water in supply dam	N/A
											Q2					
											Mid-Year					
											Q3					
											Q4					
Service Delivery: Sustainable Livelihoods and resilient Infrastructure	Water Supply	All	10	OBJ 4	10	Percentage compliance in the treatment of water at Water Treatment Works in terms of SANS standards	95%	2 x water quality reports and lab certificates	95%	R18.4	Q1	95%	97.2%	3	N/A	N/A
											Q2					
											Mid-Year					
											Q3					
											Q4					
Financial	Financial	All	11	OBJ 3	10	Maintain a debt service ratio covenant - to ensure cost effectiveness.	1.5	Quarterly financial statement, refer to DSCR	1,5 times	1,5 times	Q1	>1,5	>1,5	5	N/A	N/A
											Q2					
											Mid-Year					
											Q3					
											Q4					
TOTAL					100						Q1					
						Q2										
						Mid-Year										
						Q3										
						Q4										

Key Performance Areas (KPAs)	KPI No.	KPA Weightings	KPI Score	Assess Weightings	Weighted Score	Panel Score
Number of functional sewer purification plants operated in terms of Trust Deed	1	3	3/3	100%	3	
Number of sewer purification plants maintained in terms of agreed standards	2.1	3	3/3	100%	3	
Plant availability of sewer purification plants maintained in terms of agreed standards	2.2	3	3/3	96.2%	3	
Percentage completion of sewer purification plants upgrading projects (Boitekong). Project completed 2019 / 2020.	3	N/A	N/A	N/A	N/A	
Volume of treated waste water supplied to the industrial water off-takers in terms of the Off-take Agreement	4	3	3/3	95.4%	3	
Percentage compliance in the treatment of sewerage at Waste Water Treatment Works in terms of DWS license agreement	5	3	2/3	76.9%	2	
Number of water treatment works operated in terms of agreed standards	6	3	3/3	100%	3	
Plant availability: Number of water treatment works maintained	7.1	3	3/3	100%	3	
Plant maintenance of water treatment works maintained	7.2	3	3/3	100%	3	
Percentage completion of water treatment plants - civil works upgrading project (Bospoort)	8	3	0/3	0%	0	
Volume of potable water supplied to RLM in accordance with the Water Supply Agreement	9	3	3/3	89.6%	3	
Percentage compliance in the treatment of water at Water Treatment Works in terms of DWS license	10	3	3/3	95%	3	
Debt Service Cover Ratio >1,5 times	11	3	5/3	100%	5	
Total KPA		36	34/36		34	

Signatures

SIGNED AND ACCEPTED ON BEHALF OF COUNCIL	SIGNED AND ACCEPTED BY THE TRUST ACCOUNTING OFFICER
NAME: MR EDWARD KOMANE	NAME: MR PETER MAAS
SIGNATURE:	SIGNATURE:
DATE:	DATE:

2.1 KPI 1: NUMBER OF SEWER PURIFICATION PLANTS OPERATED IN TERMS OF AGREED STANDARDS.

RWST is responsible for the operation and management of the four waste water treatment works, namely -

Rustenburg Waste Water Treatment Works	(42 Ml/d design capacity)
Boitekong Waste Water Treatment Works	(24 Ml/d design capacity)
Monakato Waste Water Treatment Works	(1 Ml/d design capacity)
Lethabong Waste Water Treatment Works	(2 Ml/d design capacity)

Water and Sanitation Services South Africa (Pty) Ltd, trading as Water Solutions Southern Africa (WSSA) has been contracted by the Rustenburg Water Services Trust (RWST) for the operation these plants.

The volumes treated by each plant for the period under review are captured below:

Table: 1 Waste Water Volumes Treated

PLANT	CAPACITY	APRIL - JUNE 2020	JULY - SEPT 2020
Rustenburg WWTW	42 Ml/d	45.37 Ml/d	40.03 Ml/d
Boitekong WWTW	24 Ml/d	10.79 Ml/d	9.54 Ml/d
Monakato WWTW	1 Ml/d	2.422 Ml/d	1.541 Ml/d
Lethabong WWTW	2 Ml/d	3.147 Ml/d	0.644 Ml/d

Performance review: all four plants operated in terms of the agreement.

2.2 KPI 2: PLANT AVAILABILITY: NUMBER OF SEWER PURIFICATION PLANTS MAINTAINED IN TERMS OF AGREED STANDARDS.

There are 4 (four) waste water treatment works maintained in terms of agreed standards, namely: Rustenburg, Boitekong, Monakato, Lethabong Waste Water Treatment Works.

The successful operation of a Waste Water Treatment Works is largely dependent on the installed machinery and equipment to ensure that the waste water can be treated according to the process the plant was designed for.

It is thus vital that all machinery and equipment be kept in good working condition and available for use when required.

Regular servicing and preventative maintenance however requires that equipment be taken out of service for a certain period. It will thus not always be possible to obtain a 100% of all equipment availability and the target of 85% availability is set.

RWST has contracted WSSA to operate and maintain the four waste water treatment plants under its control.

WSSA is required to complete a daily availability report, reporting on all the major mechanical items on the plant. From this, a monthly availability report is compiled.

Regular spot checks are performed by RWST to verify the accuracy. The availability of the four waste water treatment works is indicated below:

Table: 2 Plant availability

PLANT	CAPACITY	AVAILABILITY	
		Target	JULY - SEPT 2020
Rustenburg WWTW	42 Ml/d	85%	94.6%
Boitekong WWTW	24 Ml/d*	85%	100%
Monakato WWTW	1 Ml/d	85%	96.7%
Lethabong WWTW	2 Ml/d	85%	93.3%
Overall plant availability			96.2%

Performance review

All 4 plants exceeded the target availability of 85%.

2.3 KPI 3: PERCENTAGE COMPLETION OF SEWER PURIFICATION PLANTS UPGRADING PROJECTS (BOITEKONG).

Boitekong WWTW was the only Waste Water Treatment Works that recently underwent upgrading under the contract of the RWST. The plant was upgraded from 8 Ml/d to 24 Ml/d.

The work was completed during the 2019 / 2020 financial year and as such, there is no progress to report during this period.

Table 3: Boitekong Construction Progress

BOITEKONG WWTW CONSTRUCTION PROGRESS			
CONTRACT	PROGRESS		PROGRESS FOR PERIOD
	30 June 2020	25 September 2020	
Civil	100%	100%	-
M&E	100%	100%	-
Overall	100%	100%	-

2.4 KPI 4: VOLUME OF TREATED WASTE WATER SUPPLIED TO THE INDUSTRIAL WATER OFF-TAKERS IN TERMS OF THE OFF-TAKE AGREEMENT.

As per off-take agreement between the RWST and the mines, a total of 25 Mℓ/d treated effluent water from the Rustenburg WWTW is to be made available for use as processed water. Of this 10 Mℓ/d is allocated to Impala and 15 Mℓ/d to Anglo Platinum.

The average supplied volume is detailed in the table below.

Table 4: Average daily supply of treated effluent

Mine Name	Average for the period
Anglo Platinum	14.585 Mℓ/d
Impala	9.252 Mℓ/d
Total	23.837 Mℓ/d

2.5 KPI 5: PERCENTAGE COMPLIANCE IN THE TREATMENT OF SEWERAGE AT WASTE WATER TREATMENT WORKS IN TERMS OF DWS LICENSE AGREEMENT.

Water discharged from the waste water treatment works needs to comply with the Department of Water and Sanitation (DWS) Water Use License required of the specific plant.

2.6.1 BOITEKONG WASTE WATER TREATMENT WORKS

Table 5: DWS License conditions for Boitekong WWTW

Determinant	Performance standard
pH	6.5 - 8.5
Elec. Conductivity	< 150 mS/m
COD	< 75 mg/l
Ammonia	< 1 mg/l
Nitrate	< 15 mg/l
Suspended Solids	< 25 mg/l
Faecal Coliform	< 0/100 ml
Free Chlorine	< 0.25 mg/l
Ortho-phosphate	< 1.0 mg/l

Table 6: Quality performance of Boitekong WWTW for the period under review.

Determinant	Performance standard (DWS)	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
pH	6.5 - 8.5	7.51 - 7.82	100%	6.62 - 7.95	100%
Elec. Conductivity	< 150 mS/m	97 - 108 mS/m	100%	105 - 118 mS/m	100%
COD	< 75 mg/l	15 - 20 mg/l	100%	15 - 27 mg/l	100%
Ammonia	< 1 mg/l	0.10 - 3.34 mg/l	67%	0.10 - 0.10 mg/l	100%
Nitrate	< 15 mg/l	4.87 - 6.50 mg/l	100%	4.01 - 6.54 mg/l	100%
Suspended Solids	< 25 mg/l	2 - 3 mg/l	100%	2 - 12 mg/l	100%
Faecal Coliform	< 0 / 100 ml	0 - 230 /100 ml	67%	0 - 72 / 100 ml	67%
Free Chlorine	< 0.25 mg/l	0.24 - 0.30 mg/l	33%	0.24 - 0.40 mg/l	33%
Ortho-Phosphate	< 1.0 mg/l	0.52 - 5.01 mg/l	33%	0.42 - 1.41 mg/l	67%
OVERALL COMPLIANCE			77.8%		85.2%

2.6.2 LETHABONG SEWAGE TREATMENT PLANT

Table 7: DWS License conditions for Lethabong WWTW

Determinant	Performance standard
pH	6.5 - 8.5
Elec. Conductivity	< 150 mS/m
COD	< 75 mg/l
Ammonia	< 1 mg/l
Nitrate	< 15 mg/l
Suspended Solids	< 25 mg/l
Faecal Coliform	< 0 / 100 ml
Free Chlorine	< 0.25 mg/l
Ortho-phosphate	< 1.0 mg/l

Table 8: Quality performance of Lethabong WWTW for the period under review.

Determinant	Performance standard (DWS)	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
pH	6.5 - 8.5	7.88 - 8.11	100%	7.85 – 7.97	100%
Elec. Conductivity	< 150 mS/m	83 - 103 mS/m	100%	89 - 90 mS/m	100%
COD	< 75 mg/l	15.0 - 15.0 mg/l	100%	14.6 - 15.0 mg/l	100%
Ammonia	< 1 mg/l	0.10 - 0.21 mg/l	100%	0.10 - 1.48 mg/l	67%
Nitrate	< 15 mg/l	6.42 - 9.82 mg/l	100%	7.51 - 8.90 mg/l	100%
Suspended Solids	< 25 mg/l	2 - 3 mg/l	100%	2 - 19 mg/l	100%
Faecal Coliform	< 0 / 100 ml	0 - 0 / 100 ml	100%	0 - 0 / 100 ml	100%
Free Chlorine	< 0.25 mg/l	0.26 - 0.32 mg/l	Non-Compliant	0.22 - 0.30 mg/l	33%
Ortho-Phosphate	< 1.0 mg/l	0.76 - 1.23 mg/l	33%	1.23 - 1.92 mg/l	Non-Compliant
OVERALL COMPLIANCE			81.4%		77.8%

2.6.3 MONAKATO SEWAGE TREATMENT PLANT

Table 9: DWS License conditions for Monakato WWTW

Determinant	Performance standard
pH	6.5 - 8.5
Elec. Conductivity	< 150 mS/m
COD	< 75 mg/l
Ammonia	< 1 mg/l
Nitrate	< 15 mg/l
Suspended Solids	< 25 mg/l
Faecal Coliform	< 0 / 100 m ^l
Free Chlorine	< 0.25 mg/l
Ortho-phosphate	< 1.0 mg/l

Table 10: Quality performance of Monakato WWTW for the period of review.

Determinant	Performance standard (DWS)	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
pH	6.5 - 8.5	8.40 - 8.44	100%	8.32 - 8.45	100%
Elec. Conductivity	< 150 mS/m	83 - 108 mS/m	100%	113 - 117 mS/m	100%
COD	< 75 mg/l	92 - 142 mg/l	Non-Compliant	97 - 119 mg/l	Non-Compliant
Ammonia	< 1 mg/l	8.76 - 15.10 mg/l	Non-Compliant	24.4 - 24.8 mg/l	Non-Compliant
Nitrate	< 15 mg/l	0.56 - 3.40 mg/l	100%	0.5 - 1.35 mg/l	100%
Suspended Solids	< 25 mg/l	24 - 53 mg/l	33%	3 - 30 mg/l	67%
Faecal Coliform	< 0 / 100 m ^l	0 - 0 / 100 m ^l	100%	0 - 0 / 100 m ^l	100%
Free Chlorine	< 0.25 mg/l	0.25 - 0.26 mg/l	67%	0.2 - 0.4 mg/l	33%
Ortho-Phosphate	< 1.0 mg/l	1.84 - 3.75 mg/l	Non-Compliant	2.52 - 2.86 mg/l	Non-Compliant
OVERALL COMPLIANCE			55.6%		55.6%

2.6.4 RUSTENBURG SEWAGE TREATMENT PLANT

Table 11: DWS License conditions for Rustenburg WWTW

Determinant	Performance standard
pH	6.5 - 8.5
Elec. Conductivity	< 150 mS/m
COD	< 75 mg/l
Ammonia	< 1 mg/l
Nitrate	< 6 mg/l
Suspended Solids	< 10 mg/l
Faecal Coliform	< 0 / 100 ml
Free Chlorine	< 0.20 mg/l
Ortho-phosphate	< 1.0 mg/l

Table 12: Quality performance of Rustenburg WWTW for the period of review

Determinant	Performance standard	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
pH	6.5 - 8.5	7.72 - 8.45	100%	7.49 - 8.07	100%
Elec. Conductivity	< 150 mS/m	66.3 - 108.0 mS/m	100%	86.1 - 100.0 mS/m	100%
COD	< 75 mg/l	20.0 - 67.0 mg/l	100%	31.0 - 43.0 mg/l	100%
Ammonia	< 1 mg/l	5.67 - 13.0 mg/l	Non-Compliant	0.1 - 0.1 mg/l	100%
Nitrate	< 6 mg/l	0.41 - 1.74 mg/l	100%	1.05 - 4.73 mg/l	100%
Suspended Solids	< 10 mg/l	2 - 25 mg/l	67%	3 - 8 mg/l	100%
Faecal Coliform	< 0 / 100 ml	0 - 0 / 100 ml	100%	0 - 85 / 100 ml	67%
Free Chlorine	< 0.20 mg/l	0.01 - 0.08 mg/l	100%	0.01 - 0.04 mg/l	100%
Ortho-Phosphate	< 1.0 mg/l	0.89 - 2.45 mg/l	33%	0.76 - 2.62 mg/l	33%
OVERALL COMPLIANCE			77.8%		88.9%

Table 13: Summary of the quality performance achieved by the 4 WWTW for the period of review, is tabled below

PLANT	CAPACITY	PERFORMANCE	
		TARGET	JULY - SEPT 2020
Rustenburg WWTW	42 Ml/d	90%	88.9%
Boitekong WWTW	24 Ml/d	90%	85.2%
Monakato WWTW	1 Ml/d	90%	55.6%
Lethabong WWTW	2 Ml/d	90%	77.8%
Overall performance			76.9%

2.6.5 Effluent Quality (Anglo Platinum standards)

In terms of an amended agreement with the Anglo Platinum, the 15 M³/d treated effluent supplied is further treated in the dissolved air flotation (DAF) unit to meet the following standards:

Table 14: Anglo Platinum Quality Standards

PARAMETER	UNIT	CONTRACTED QUALITY	
		MAXIMUM	REJECT
pH	pH Units	7.5 Min - 7.8 Max	6.8 Min - 8.2 Max
TOC	mg/l	20	> 25
COD	mg/l	60	> 75
TSS	mg/l	8	> 10
Alkalinity	mg/l	300	> 350
Ammonia	mg/l	5	> 10
Nitrate	mg/l	10	> 15
O-Phosphate	mg/l	9	> 10
Fats	mg/l	4	> 5
TDS	mg/l	1800 (150 μ S/m)	> 2000 (200 μ S/m)
Ca	mg/l	350	> 400
Mg	mg/l	75	> 100
Na	mg/l	150	> 400
SO ₄	mg/l	200	> 300
Cl	mg/l	450	> 500
Turbidity	NTU	10	> 15
E. coli	CFU/100ml	0	> 1000
Total Plate Count	CFU/100ml	1000	> 10000

The water quality is monitored on a daily basis.

Table 14 below gives an indication of the performance of the DAF plant during the period under review, 1 July to 25 September 2020, and includes the performance of the previous period.

Table 15: Quality Measurement at Rustenburg Waste Water Treatment Works (Anglo Standards)

Determinant	Performance standard (ANGLO)	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
pH	7.5 Min - 7.8 Max	7.30 – 8.13 pH-Units	70.1% ¹	7.35 – 7.97 pH-Units	76.7% ¹
TOC	20 mg/l	6.78 – 13.9 mg/l	100%	12.0 – 19.4 mg/l	100%
COD	60 mg/l	14.6 - 50.0 mg/l	100%	20.0 - 74.0 mg/l	98.8%
TSS	8 mg/l	2.0 – 21.0 mg/l	80%	2.0 – 20.0 mg/l	87.2%
Alkalinity	300 mg/l	106 - 220 mg/l	100% ¹	100 - 198 mg/l	100% ¹
Ammonia	5 mg/l	1.0 – 18.8 mg/l	53.6%	0.43 – 7.8 mg/l	94.2%
Nitrate	10 mg/l	1.1 – 12.1 mg/l	94.8%	3.0 – 15.8 mg/l	53.5%
O-Phosphate	9 mg/l	0.3 – 5.2 mg/l	100%	0.9 – 6.3 mg/l	100%
Fats	4 mg/l	0.5 - 0.5 mg/l	100%	0.5 – 7.1 mg/l	92.3%
TDS	1800 (150 µS/m)	325 – 633 (100 µS/m)	100% ¹	585 – 627 (100 µS/m)	100% ¹
Ca	350 mg/l	29.3 - 37.1 mg/l	100% ¹	28.9 - 37.0 mg/l	100% ¹
Mg	75 mg/l	20.1 – 26.0 mg/l	100% ¹	21.9 – 25.7 mg/l	100% ¹
Na	150 mg/l	56.6 – 78.6 mg/l	100% ¹	76.7 – 87.4 mg/l	100% ¹
SO ₄	200 mg/l	73.4 – 85.2 mg/l	100% ¹	89.4 – 119.0 mg/l	100% ¹
Cl	450 mg/l	88.9 – 106.0 mg/l	100%	111.0 – 128.0 mg/l	100%
Turbidity	10 NTU	1.04 – 10.2 NTU	99%	1.38 – 7.05 NTU	100%
E. coli	0 CFU/100m ^l	0 - 1940 CFU/100m ^l	50%	0 – 264.0 CFU/100m ^l	84.6%
Total Plate Count	1000 CFU/100m ^l	0 - 1000 CFU/100m ^l	100%	0 - 1000 CFU/100m ^l	100%
Flow (Average)	15M ^l /d (Min)	0.0 – 16.8 M ^l /d (10.41) M ^l /d	25.8% ²	7.96 – 16.33 M ^l /d (14.58) M ^l /d	51.7% ²
OVERALL COMPLIANCE			88.1%		91.53%

Notes:

1. The current plant is not equipped to make adjustments to these parameters.
2. Average flow is currently not in the Business Plan but will be included in the future.

2.6 KPI 6: NUMBER OF WATER TREATMENT WORKS OPERATED

RWST is responsible for the operation and maintenance of the following two water treatment plants:

Kloof Water Treatment Works (2 Ml/d design capacity)
 Bospoort Water Treatment Works (12 Ml/d design capacity)

Water and Sanitation Services South Africa (Pty) Ltd, trading as Water Solutions Southern Africa (WSSA) has been contracted by the Rustenburg Water Services Trust (RWST) for the operation these plants.

The volumes treated by each plant for the period under review are captured below.

Table 16: Volumes treated by each plant for the period under review are captured below:

PLANT	CAPACITY	APRIL - JUNE 2020	JULY - SEPT 2020
Bospoort WTW	12 Ml/d	9.79 Ml/d	10.209 Ml/d
Kloof WTW	2 Ml/d	1.003 Ml/d	1.085 Ml/d

2.7 KPI 7: NUMBER OF WATER TREATMENT WORKS MAINTAINED

There are 2 (two) water purification plants maintained in terms of agreed standards, namely Bospoort and Kloof Water Purification Works.

The successful operation of a Water Treatment Works is largely dependent on the installed machinery and equipment to ensure that the water can be treated according to the process the plant was designed for.

It is thus vital that all machinery and equipment be kept in good working condition and available for use when required.

Regular servicing and preventative maintenance however requires that equipment be taken out of services for a certain period. It will thus not always be possible to obtain a 100% of all equipment availability and the target of 85% availability is set.

RWST has contracted WSSA to operate and maintain the two water treatment plants under its control.

WSSA is required to complete a daily availability report, reporting on all the major mechanical items on the plant. From this, a monthly availability report is compiled. Regular spot checks are performed by RWST to verify the accuracy.

Table 17: Availability of the 2 Water Treatment Plants

PLANT	CAPACITY	AVAILABILITY	
		TARGET	JULY - SEPT 2020
Bospoort WTW	12 Ml/d	85%	100%
Kloof WTW	2 Ml/d	85%	100%

2.8 KPI 8: PERCENTAGE COMPLETION OF WATER TREATMENT PLANTS - CIVIL WORKS UPGRADING PROJECT (BOSPOORT WTW)

Bospoort Water Treatment Works is the only Water Treatment Works undergoing upgrading under the contract of the RWST. The plant is being upgraded from 12 Ml/d to 24 Ml/d.

The Civil component of the work was to be completed in January 2019 but was delayed mainly due to community unrest and the recent lockdown due to Covid-19 and subsequent labour issues emanating from Covid-19 lockdown. This has resulted in a revised completion date of the end of December 2020.

The Civil portion of the works therefore remained at 97% complete with no progress occurring during the period under review.

Table 18: Bospoort WTW Construction Progress

BOSPOORT WTW CONSTRUCTION PROGRESS			
CONTRACT	PROGRESS		PROGRESS FOR PERIOD
	30 June 2020	25 September 2020	
Civil	97%	97%	0%
M&E	-	-	-
OVERALL CONSTRUCTION PROGRESS	-	-	0%

The Mechanical and Electrical component of the work has not yet been procured.

2.9 KPI 9: VOLUME OF POTABLE WATER SUPPLIED TO RLM IN ACCORDANCE WITH THE WATER SUPPLY AGREEMENT

Bospoort Water Treatment Works has a design capacity of 12 Ml/d and Kloof Water Treatment Works a capacity of 2 Ml/d. WSSA has been contracted by the RWST for the operation of the these plants.

The average volumes of water supplied to RLM is in accordance with the water supply agreement for the period under review, is table below.

Table 19: Average volumes of water supplied to RLM

PLANT	CAPACITY	PERFORMANCE	
		Target @ 90% capacity	JULY - SEPT 2020
Bospoort WTW	12 Ml/d	10.8 Ml/d	10.209 Ml/d (85.1%)
Kloof WTW	2 Ml/d	1.8 Ml/d	1.085 Ml/d (54.2%)

2.10 KPI 10: PERCENTAGE COMPLIANCE IN THE TREATMENT OF WATER FOR POTABLE USE IN TERMS OF DWS STANDARDS

The required standard for both Bospoort Water Treatment Works as well as Kloof Water Treatment Works is regulated by SANS 241.

According to the water supply agreement, RWST must supply potable water to RLM, which fully comply with SANS 241, as reflected in the table 20 below from the Bospoort and Kloof Water Treatment Works.

Table 20: SANS 241 Standards

SANS 241 Determinant	Performance standard
Colour Pt-Co	< 15
Treated Conductivity (mS/m)	< 170 mS/m
TDS	< 1200 mg/l
pH	> 5.0 < 9.7 pH Units
Turbidity NTU	< 1 NTU
Calcium (mg/l)	< 150 mg/l
Faecal Coliform	< 0 /100m ^l
Chloride (mg/l)	< 300 mg/l
Fluoride (mg/l)	< 1.5 mg/l
Magnesium (mg/l)	< 70 mg/l
Sulphate (mg/l)	< 250 mg/l
Heterotrophic Plate Count cfu/m ^l	< 1000 /m ^l
Total Coliform cfu/100m ^l	< 10 cfu/100m ^l
Free Chlorine (mg/l)	< 5 mg/l

Table 21: The quality performance achieved by Bospoort WTW for the period of review is in the table below.

Determinant	Performance standard (SANS 241)	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
Colour Pt-Co	< 15	10-10	100%	10-10	100%
Treated Conductivity (mS/m)	< 170 mS/m	95 - 117 mS/m	100%	115.8 - 128 mS/m	100%
TDS	< 1200 mg/l	717 - 772 mg/l	100%	799 - 841 mg/l	100%
pH (pH units)	> 5.0 < 9.7 pH units	7.57 - 7.64 pH units	100%	7.42 - 7.95 pH units	100%
Turbidity NTU	< 1 NTU	0.51 - 1.80 mg/l	33%	0.21 - 0.52 mg/l	100%
Calcium (mg/l)	< 150 mg/l	57.6 - 79.4 mg/l	100%	74.0 – 84.7 mg/l	100%
Faecal Coliform	< 0 cfu/100m ^l	0 - 0 cfu/100m ^l	100%	0 - 0 cfu/100m ^l	100%
Chloride (mg/l)	< 300 mg/l	172 - 187 mg/l	100%	196 - 206 mg/l	100%
Fluoride (mg/l)	< 1.5 mg/l	0.08 - 0.15 mg/l	100%	0.15 - 0.22 mg/l	100%
Magnesium (mg/l)	< 70 mg/l	31.4 – 35.2 mg/l	100%	33.0 - 40.4 mg/l	100%
Sulphate (mg/l)	< 250 mg/l	92 - 138 mg/l	100%	144 - 154 mg/l	100%
Heterotrophic Plate Count cfu/m ^l	< 1000 /m ^l	3 - 11 cfu/m ^l	100%	0 - 16 cfu/m ^l	100%
Total Coliform cfu/100m ^l	< 10 cfu/100m ^l	0 - 2 cfu/100m ^l	100%	0 - 0 cfu/100m ^l	100%
Free Chlorine (mg/l)	< 5 mg/l	0.90 - 1.85 mg/l	100%	0.57 – 2.2 mg/l	100%
WATER QUALITY OVERALL COMPLIANCE:			95.2%		100%
PLANT CAPACITY = 12 M^l/d: PRODUCTION PERFORMANCE TARGET > 90% of plant capacity					

Performance review: the plant exceeded its performance target of 95%.

KLOOF WTW

The Kloof Water Treatment Works is a small, very old facility that used to be one of the first sources of potable water to Rustenburg. It is fed from the Dorpspruit, which originates in the Magalies mountain range from springs, and the water quality is normally of a very high standard. Average production for the period under review is at 1.003 Mℓ/d.

Table 22: The quality performance achieved by Kloof WTW for the period of review is tabled below.

Determinant	Performance standard (SANS 241)	Previous Performance 26 March – 30 June 2020		Current Performance 01 July – 25 September 2020	
		Performance achieved	% Compliance	Performance achieved	% Compliance
Colour Pt-Co	< 15	10 - 10	100%	10 - 10	100%
Treated Conductivity (mS/m)	< 170 mS/m	7.78 – 8.72 mS/m	100%	6.61 - 10.9 mS/m	100%
TDS	< 1200 mg/l	52.0 - 58.5 mg/l	100%	44.0 – 73.0 mg/l	100%
pH (pH units)	> 5.0 < 9.7 pH units	7.09 - 7.22 pH Units	100%	7.14 - 7.75 pH Units	100%
Turbidity NTU	< 1 NTU	0.50 - 0.74 mg/l	100%	0.50 - 1.59 mg/l	82%
Calcium (mg/l)	< 150 mg/l	3.35 – 4.07 mg/l	100%	3.76 - 7.43 mg/l	100%
Faecal Coliform	< 0 cfu/100mℓ	0 - 0 cfu/100mℓ	100%	0 - 0 cfu/100mℓ	100%
Chloride (mg/l)	< 300 mg/l	4.32 - 7.34 mg/l	100%	5.13 - 15.5 mg/l	100%
Fluoride (mg/l)	< 1.5 mg/l	0.05 - 0.09 mg/l	100%	0.05 - 0.17 mg/l	100%
Magnesium (mg/l)	< 70 mg/l	2.36 - 3.23 mg/l	100%	2.46 - 3.92 mg/l	100%
Sulphate (mg/l)	< 250 mg/l	1.77 – 3.12 mg/l	100%	1.86 - 3.24 mg/l	100%
Heterotrophic Plate Count cfu/mℓ	< 1000 /mℓ	0 - 9 cfu/mℓ	100%	0 - 26 cfu/mℓ	100%
Total Coliform cfu/100mℓ	< 10 cfu/100mℓ	0 - 0 cfu/mℓ	100%	0 - 0 cfu/mℓ	100%
Free Chlorine (mg/l)	< 5 mg/l	0.04 - 0.32 mg/l	100%	0.3 - 0.9 mg/l	100%
WATER QUALITY OVERALL COMPLIANCE:			100%		98.7%
PLANT CAPACITY = 2 Mℓ/d. PRODUCTION PERFORMANCE TARGET > 90% of plant capacity					

Performance review: the plant exceeded its performance target of 95%.

Table 23: Summary of the quality performance achieved by the 2 WTW for the period of review, is tabled below.

PLANT	CAPACITY	PERFORMANCE	
		Target @ 90% capacity	JULY - SEPT 2020
Bospoort WTW	12 Mℓ/d	95%	100%
Kloof WTW	2 Mℓ/d	95%	98.7%
Overall performance			99.4%

3. FINANCIAL PERFORMANCE

In terms of the loan agreement entered with the financiers, the financial health of the RWST is enforced through a KPI called a "debt service ratio covenant".

This is a criterion that is well defined in the agreement, is easily measurable, and measures the profitability and the ability to repay all outstanding long-term debt.

The ratio is defined in terms of the loan agreement as "earnings before interest, tax and depreciation + cash reserves, expressed as a percentage of annual debt repayment".

The ratio is set at 1.5 times and we achieved 11.78 times including cash. The ratio excluding cash, we achieved 1.5 times for the period ending 30 September 2020. This essentially means that the Trust is in a healthy financial position with earnings of 1.5 times higher than the annual commitments. No provision for bad debts has been made to date and there are none currently under consideration. The bad debt provision would drastically weaken the financial position as stated.

Attached is the financial statement for the period ending 30 September 2020.