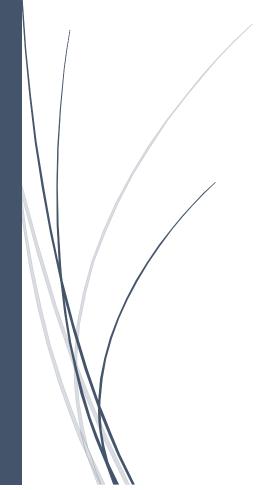
10/10/2018

INFRASTRUCTURE DIRECTORATE

MONTHLY REPORT – SEPTEMBER 2018



MATJHABENG MUNICIPALITY

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EXECUTIVE SUMMARY

The Civil Engineering Department is responsible for maintenance of Water, Sewer, Roads, Storm Water and Municipal Buildings in all the Units of the Municipality. This includes operation and maintenance of 11 Waste Water Treatment Works and 47 Sewer and Purified Effluent Pump Stations.

The above responsibility is undertaken through the following branches that are under Civil Engineering Department:

• Water and Effluent Water (Central)

Responsible for maintenance of water and sewer network in central unit through preventative and reactive maintenance. The branch is also responsible for operation and maintenance of all waste water treatment works and sewer and purified effluent pump stations in all units. Laboratory Services also fall under this branch.

• Roads, Storm Water and Building Maintenance

Responsible for maintenance of roads and storm water in central unit through preventative maintenance. The branch is also responsible for maintenance of Municipal Buildings in all the units

• Water Demand Management

This branch is responsible for protection of revenue through implementation of water conservation and demand management strategies and maintenance of all water meters in all units.

• Infrastructure – East Unit

This branch is responsible for maintenance of water, sewer, roads and storm water infrastructure in Virginia, Meloding, Henneman, Phomolong, Whites, Ventersburg and Mmamahabane.

• Infrastructure – West Unit

This branch is responsible for maintenance of water, sewer, roads and storm water infrastructure in Odendaalsrus, Kutlwanong, Alanridge and Nyakallong.

The Electrical Engineering Department is responsible for the following:

- Electrical networks:
 - Low Voltage Distribution Networks 400V
 - Medium Voltage Distribution Networks in, 6.6 kV, 11kV
 - High Voltage Networks, 132 kV
- Streetlights and High Mast Lights
- Design, Planning and Technical support
- Mini substations, Kiosks and Substations

The Project Management Unit is responsible for the implementation and monitoring of Infrastructure Capital projects, mainly those funded from the Municipal Infrastructure Grant (MIG) which is a conditional Grant guided by the Division of Revenue Act (DORA).

1. IMPLEMENTATION OF MAYORAL COMMITTEE AND COUNCIL RESOLUTIONS

The progress report on the implementation of Mayoral Committee (MAYCO) and Council resolutions from May 2017 to March 2018 is attached in Annexure A of this report but summarized as follows:

RESOLUTIONS	TOTAL	IMPLEMENTED	IN PROGRESS	OUTSTANDING
MAYORAL COMMITTEE	23	7	14	2
COUNCIL	9	1	8	0

2. PROJECT MANAGEMENT UNIT (PMU)

2.1 Overview of Performance

There are various projects currently being implemented and are on various stages as follows:

Project Description	Budget for 2018/2019	Current Expenditure	Current Progress	Contractual Completion Date	Challenges	Intervention/ Remedial Action	Other Comments
Nyakalong:WWTP Upgrade	R8 284 673,05	R586 258,63 (7%)	Construction Stage Phase 2 (84% overall progress including phase1	30/11/2018	None to report	N/A	Phase 2 is progressing well
Upgrade and Create New Sports and Recreational Facilities Phase 3 Thabong Stadium, Zuka Baloi Stadium & Kopano Indoor Centre	R531 318,20	R 0.00 (0%)	Retention Stage	30/07/2017	None to report	N/A	Project is in retention stage.
Whites: Septic Tank System	R714 136,95	R 0.00 (0%)	Consultant submitted the technical report	No contractor	None to report	N/A	Technical report sent to Provincial COGTA for advise on the way forward
Virginia: WWTP Sludge Management (Phase 1)	R1 481 978,19	R0,00 (0%)	Completed	30/04/2018	None to report	N/A	None
Thabong: Upgrading of the far-east hall indoor sports and recreational facility	R8 061 579,13	R0.00 (0%)	Construction Stage (78 % to completion)	30/08/2018	Project is still on stand still due to Joint Venture unresolved issues.	N/A	The PMU has engaged with Legal Services to start with the termination process of the Contractor
Nyakallong: Construction of storm water system – phase 1	R825 379,45	R986 053.00 (119%)	Construction (88%)	31/07/2018	No progress on site Contractor has cash flow problems	N/A	Consultant submitted request for extension of time on the 07 September 2018 PMU still processing the request
Welkom Regional Taxi Centres	R2 235 292,97	R 0.00 (0%)	Design Stage	15/08/2019	A letter was sent to COGTA to request full funding of the project from MIG	N/A	No response has been received fromCOGTA
Construction of Dr Mngoma road in Thabong	R411 423,52	R0.00 (0%)	Retention	10/10/2017	None	N/A	None

Project Description	Budget for 2018/2019	Current Expenditure	Current Progress	Contractual Completion Date	Challenges	Intervention/ Remedial Action	Other Comments
Mmamahabane: Installation of water reticulation to 53 stands	R36 256,07	R 0.00 (0%)	Retention Stage	30/10/2017	None	N/A	None
Mmamahabane: Upgrading of waste water treatment works	R647 689,50	R0.00 (0%)	Construction Stage (100% to completion)	22/07/2018	None	N/A	None
Thabong: Installation of bulk zonal water meters and valves (MIS:250932)	R2 064 491,28	R205 850,00 (10%)	Tender Stage	no contractor	None	N/A	Tender was advertised and closed on the 01 June 2018. Awaiting evaluation committee.
Phomolong: Upgrading of sewage pumping station outfall and rising main (MIS:253902)	R2 283 794,19	R1 550 646.42 (68%)	Construction Stage (100% to completion)	25/07/2018	None	N/A	None
Mmamahabane (Ventersburg): Development of a new cemetery	R13 375 597,68	R158 827,88 (1.2%)	Design Stage	No contractor	None	N/A	Consultants has submitted bid document and it is awaiting the bid specification committee.
Thabong: Upgrading of 2km old gravel roads to concrete paving blocks and storm water drainage (ward 28)	R6 321 353,03	R2 527 117.61 (40%)	Construction Stage (82% to completion)	28/09/2018	None	N/A	An extension of time application has been submitted and the PMU is still busy processing it.
Virginia/Meloding: New indoor sports and recreational facility – phase 1	R22 891 169,74	R998 789.06 (4.36%)	Construction Stage (17% to completion)	31/01/2020	None	N/A	None
Kutlwanong: Upgrading of waste water treatment works phase 2 (MIS:271406)	R9 757 460,39	R0.00 (100%)	Design	No contractor	Consultant is progressing very slow in completing the designs	N/A	None
Allanridge/Nyakallong: Replacement of old galvanized steel with pvc pipes (Vuk'uphile Learnership)	R5 319 075,02	R0,00 (0%)	Tender	No contractor	None	N/A	Tender advertised and closed on the 01 June 2018. Project awaiting evaluation committee

Project Description	Budget for 2018/2019	Current Expenditure	Current Progress	Contractual Completion Date	Challenges	Intervention/ Remedial Action	Other Comments
Virginia: Upgrading of Waste Water Treatment Works – Phase 2	R4 667 281,65	R2 699 903.75 (58%)	Construction (37%)	31/05/2019	None	N/A	Phase 2 progressing well
Thabong Extension 20 (Hani Park): Extension of water network, house connections and meters for 180 stands (Vuk'uphile Learnership)	R1 489 361,88	R0.00 (0%)	Tender	No contractor	None	N/A	Tender advertised and closed on the 01 June 2018. Project awaiting evaluation committee
Welkom:Upgrading of Landfill Site	R2 796 560,58	R 0.00 (0%)	Design and Tender	No contractor	None	N/A	Consultants has submitted bid document and it is awaiting the bid specification committee.
Allanridge: Provision of water, sanitation and high mast lights at the cemetery	R1 472 474,10	R 0.00 (0%)	Design and Tender	Awaiting appointment of a consultant			
Upgrading & Refurbish T8 sewer pumpstation to address new developments	R 8 265 023,72	R1 545 288.27 (19%)	Construction Stage (47% to completion)	15/11/2018	Project on standstill due to the dissatisfaction of the community in Ward 14	N/A	Community in the Ward alleges that the labours employed in the project are not from Ward 14
Kutlwanong upgrading of outfall sewer	R4 499 172,72	R314 548,12 (7%)	Design & tender	No contractor			
Meloding upgrading of gravel roads Phase 2	R3 757 201,18	R2 011 822.66 (54%)	Design	Consultant submitted designs			
TOTAL	R 116 581 000,00	R14 070 849 .84 (12%)					

2.2 Human Resources

The Staff complement of PMU is currently as follows:

Department/Branch	Approved	Filled	Vacant	Acting	Comments
PMU	16	6	10	0	

2.3 MIG Expenditure

The overall current expenditure is summarized as follows:

ALLOCATION	PLANNED EXPENDITURE	CURRENT CUMULATIVE EXPENDITURE	BALANCE TO BE SPENT
R 116 581 000,00	R23 316 200.00 (20%)	R13 989 720.00 (7%)	R102 591 280.00(88%)

2.4 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
PMU MIG budget is not	Service provider must conclude the signing of	E'tsho
registered.	their SLA in time for the 2018/19 financial year	
	so that the Municipality cannot be at risk of	
	forfeiting the portion of the 5% budget from the	
	MIG allocation	

3. <u>DEPARTMENT CIVIL ENGINEERING</u>

3.1 ROADS AND STORM WATER MAINTENANCE (CENTRAL)

3.1.1 Overview of Performance

Despite shortages of material, vehicles and equipment that we encountered, the roads and storm water maintenance section has managed with the resources at hand to attend to crucial maintenance and complaints received

3.1.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** respectively of the monthly report, however the following was achieved for **September** 2018 by the Roads & Stormwater Maintenance:

- Repair of potholes target was 417m² but the section managed to achieve 218m².
- Maintenance of gravel roads target was 1250m but the section managed to achieve 0m.
- Cleaning of lined stormwater channels target was 833m but the section managed to achieve 265m.
- Cleaning of unlined stormwater channels target was 583m but the section managed to achieve 55m.
- Cleaning and maintenance of stormwater drainage catchpits target was 66 but the section managed to achieve 3. Repair 4 catchpits.
- Cleaning of streets target was 2500 m but the section managed to achieve 300m.
- Cleaning of Sand river channel target is 6000m for the year but the section managed to achieve 0m.(no excavator)

• Cleaning of Storm-water pipes is 500m for the year but the section managed to achieve 0m.

3.1.3 Resources

• Human resources

Department/Branch	Approved	Filled	Vacant	Acting	Comments
Roads & Stormwater Central	158	67	91	8	There is serious shortage of personnel especially operators and drivers and supervisors

• Plant and equipment

Type of vehicle /	Quantity	Days Available	Comments
Equipment			
Grader	5	0	Workshop
Excavator	1	30	No Operator
Front-end Loader	1	0	Workshop
TLB	2	2	Workshop
Roller	2	0	Workshop
Grab trucks	5	0	Workshop
Medium Truck	1	15	Workshop
Water tankers	2	0	Workshop
Tipper truck	1	0	Workshop
Tipper truck Medium	7	0	Workshop
Low-bed	1	0	Workshop
Medium Truck	1	0	Workshop
Tipper truck	3	30	Operational
Tipper truck	1	0	Workshop
LDV	4	0	Workshop
Sedan	1	0	Workshop

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
4	0	

3.1.4 Theft and Vandalism

None

3.1.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Availability of material, vehicles and equipment remains a challenge.	·	

Challenge	Proposed intervention	Responsibility
Orders are not done in time.	The issuing of orders must be done faster to obtain	
	material and equipment.	
No Roads Forman	The position must be filled.	
Payment of Service Providers	Service Providers must be paid in time.	
Health and Safety	People do not want to drove with the material and	
	equipment on the same truck – 2 trucks are being used	
	for one team – must get trailers.	

3.1.6 Occupational Health and Safety meetings

None was held due to a lack of nominations and training of health and safety representatives.

3.2 **BUILDING MAINTENANCE**

3.2.1 Overview of Performance

Refer to achievements in 3.2.2

3.2.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 by the Building Section:

- Replaced four (4) door locks.
- Replaced one (1) internal wooden door at Nyakallong Community Hall.
- Replaced one (1) external wooden door at Nyakallong Community Hall.
- Opened locked doors for two offices at Welkom main building.
- Replaced one (1) pressure control valve for geyser.
- Replaced/repaired two (2) toilet pans with cisterns, one (1) cistern, three (3) cistern mechanisms, one (1) hand wash basin and two (2) taps.
- Repaired twenty three (23) leaking/burst water pipes.
- Repaired/opened eighteen (18) blocked sewer pipes.
- Replaced/repaired loose suspended ceiling boards in boardroom 427 main building.
- Replaced thirty seven (37) broken window panes.

3.2.3 Resources

• Human resources

Department/Branch	Approved	Filled	Vacant	Acting	Comments
Branch: Buildings	55	25	30	1	Serious shortage of personnel

• Plant and equipment

Type of vehicle / Equipment	Quantity	Days Available	Comments
Medium Truck	1	0 days	- CCT 691 FS, is in workshop for repairs to oil leaking from the engine.
LDV's	1	30 days	- DWT 905 FS, in operation
LDV's	1	30days	-DWL 044 FS, In operation, borrowed by water section.
LDV's	1	0 days	- DWT 902 FS, Written off after accident on 10/11/14 & insurance paid settlement.
LDV's	1	0 days	BHZ 326 FS, In workshop after accident on 22/05/2014, pending panelbeating after insurance repudiated the claim.
LDV's	1	0 days	- CBR 284 FS, in workshop for repairs, needs new engine.
LDV's	1	0 days	- CBR 289 FS, In workshop for repairs since 15/07/11, needs clutch, battery & tyres
LDV's	1	0 days	- CBP 689 FS, In workshop for repairs since 15/07/11, needs clutch, battery & tyres

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
2	5 from previous month	2

3.2.4 Theft and Vandalism

None

3.2.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Turn-around time for processing of	A list of all outstanding orders for materials	
orders by Supply Chain Management	will be compiled and sent to Supply Chain	
needs to be improved.	Man for them to source materials from	
	appointed service providers.	
The appointed service providers are not	Regular follow up for outstanding orders is	
always delivering the correct materials	made to Supply Chain Management.	
required as per official orders and at the		
same time; they claim that delivery		
depends on availability of materials, this		
result in delays before execution of		
maintenance.		
Shortage of vehicles due to breakdowns	Finance dept should negotiate new payment	
and aging of current fleet.	agreements with building materials suppliers	
	to avoid accounts being suspended and or	
	closed.	
	Re-opening of stores in 4 th Street for the safe	
	keeping of materials in large quantities.	
	Vacant posts of Artisans that are budgeted for	
	should be filled as soon as possible.	

3.2.6 Occupational Health and Safety meetings

None was held due to a lack of nominations and training of health and safety representatives.

3.3 WATER DEMAND MANAGEMENT

3.3.1 Overview of performance

Refer to achievements in 3.3.2

3.3.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 by the Water Demand Section.

ACTION	PERFORMANCE	COMMENTS
Conduct 1 leak detection investigation and	0	Service Provider suspended works in
analysis to determine priority list.		December 2017, due to non-payment
Install 50 water meters at developed parks	0	Not completed. There are not enough
and communal standpipes		internal capacity to execute.
Replacement / Installation of water meters	Planned: 150	Availability of resources is a challenge.
done by Water Demand Management.	Done: 97	
Number of Meters replaced	65% achieved	
Repair of water meters done by Water	Planned: 300	The team must be commended for their
Demand Management. Number of Meters	Done: 379	hard work. A backlog currently exist.
repaired	126% achieved	
Monitoring of bulk water meters done by	Planned: 10	Technician was on sickleave for most
Water Demand Management. Number of	Done :	of the month.
Meters Monitored.		
Monitoring of disconnections done by Water	Planned: 300	Revenue inspectors only work in the
Demand Management. Number of Meters	Done : 184	Central area and disconnections took
Monitored		place in OD and Virginia. Other
		measures to monitor these areas are
		being explored.
Meter investigations done by Water Demand	Planned: 900	
Management. Number of Meters	Done :	
investigated	Aug: 475	
	Sept: 546	

3.3.3 Resources

• Human Resources

Department/Branch	Approved	Filled	Vacant	Acting	Comments
Water Demand	61	16	46	5	Critically understaffed

• Plant and Equipment

Type of vehicle /	Quantity	Days Available	Comments
Equipment			
Private	2	18	3 Plumbers are using their private vehicles in the execution of his duties. One official vehicle was
			available. One official vehicle is at the
			mechanical workshop. Act Senior Technician
			was in hospital for most of the month and two
			Plumbers was on special leave for 5 days.

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
7	0	7

3.3.4 Theft and Vandalism

No stolen water meters were reported.

3.3.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
The productivity of Revenue Inspectors can improve if the issue regarding their motor vehicle scheme can be addressed.	The matter was already escalated to the Human Resources Department for intervention. The status quo remain for Aug 2018	Human Resources / HR
The Section is critically understaffed with Technical staff. This create a vacuum with regard to technical expertise in the Section	Request for filling of vacancies for the appointment of Technicians was prepared on numerous occasions, but no posts are filled yet.	Human Resources
Personnel is not familiar with the necessary Human Resources Policies and this create a problem with discipline in the Section	Induction of personnel by Labour Relations and Human Resources departments is very necessary. A request was submitted to the relevant department.	Human Resources Labour Relations
Shortage of vehicles. The section is currently depending on three personnel to use their private vehicles to execute their work. If these vehicles become unavailable, the Section is unable to address any water losses or implement revenue protection strategies. The Section did receive two vehicles from Mechanical Workshop, but the vehicles need a lot of attention and is not road worthy most of the time, because it does not work for more than 15 days per month on average.	Purchasing of new vehicles	Fleet Management
Billing information for Jul 2018 - Sept 2018 is not yet received from the Finance Dept. Water Balance not compiled.		

3.3.6 Occupational Health and Safety meetings

None. The Section does not have capacity to conduct regular monthly meetings.

3.3.7 WATER CONSERVATION AND DEMAND MANAGEMENT STRATEGIES

3.3.7.1 Strategy, plan and implementation

Work in progress.

3.3.7.2 Asset Management

No	Action	Comment
1	Meter Replacement Programme	As per the SDBIP
2.	Valve and Hydrant Replacement Programme	Programme must be compiled – Assistance from Cuban Engineers was requested. No assistance received from the Cuban Engineers.
3.	Mains Replacement Programme	As per the SDBIP

3.3.7.3 Customer Care and Communication to Consumers

No approved Customer Care Charter in place. The Municipality do have Customer Care Offices in each town, to receive customer complaints from the public.

3.3.7.4 Technical Skills

The Maintenance Team in Water Demand is critically understaffed. Refer to Point 2 above for details.

3.3.7.5 IWA Water Balance

Billing information for Jul - Sept 2018 is not yet received from the Finance Department. Water Balance not compiled.

3.3.7.6 War on Leaks Programme

No progress meeting was held for Sept 2018. The agreement for Phase 1 leaners expired on 31 August 2018.

3.3.7.7 Projects: Provision of Leak Detection and Repair Services: 2 year contract

The Contractor suspended works due to non-payment.

3.4 WATER MAINTENANCE (CENTRAL)

3.4.1 Overview of the performance:

Refer to achievements in 3.4.2

3.4.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 by the Water Section Central:

The main objective in the section is to reduce back logs for meter repairs, leaking pipes and burst lines by 60%.

• A total of 185 water complaints for the Welkom Central area were received (of which 5365 were from the backlog) and 183 were reported back to have been done by Water Maintenance personnel bringing the backlog up to 5367. Two TLB's that were hired to help in capacitating the maintenance teams, during this month were stopped due to unavailability of fleet. 146 Back fillings were also done during this month. Length of PVC pipes installed to replace old pipes is 61m. Of the 183 complaints done, 27 valves were repaired and 2 new valves installed,4 hydrants were repaired and 2 new hydrants installed.

.3.4.3 Resources

• Human resources

At least twelve General workers are urgently needed to work at water maintenance teams, although this is dependent on vehicle availability.

Department/Branch	Approved	Filled	Acting	Comments
Water Maintenance Central	109	49	60	Critically understaffed

• Plant and equipment

- Only three bakkies was operational at Water Central for September 2018 and were exchanged between stand-by Plumbers weekly. Other bakkies have been taken by the sheriff.
- Water Central Bell TLB that has been operational since December 2017 came back
- Water Central grab truck does not have a working grab, making it difficult to do backfillings
- Three water pumps are operational
- Four Trailers have been taken by the sheriff.

Type of vehicle /	Quantity	Days Available	Comments
Equipment			
	1	0	At mechanical workshop, broken by pump
LDV ((DLL 956 FS)			station driver since February 2017
LDV (DWZ 815 FS)	1	0	Impounded
LDV (DWL 039 FS)	1	0	Impounded
LDV (DWL 048 FS)	1	0	Impounded
	1	0	Operational since 11 September 2017 but
LDV (DLL 952 FS)			lent to sewer central
LDV (DWL 037 FS)	1	0	Impounded
Grab Truck (DXT 428	1	0	At mechanical workshop for brakes
FS)DXP859 from			
Parks used			
Grab Truck (DXT 429	1	0	Borrowed from Sewer Central, grab still
FS)			not fixed and studs
TLB (DWT 184 FS)	1	30	
TLB (DND 792 FS)	1	0	In for repairs
FZC727 Trailer(Ty	1	0	Impounded
FZC725 Trailer(Ja	1	0	Impounded
FZC719 Trailer(Ma	1	0	Impounded

FZC716 Trailer(Pa	1	0	Impounded
Pump (Tys)	1	0	Impounded
Pump (Jaki)	1	0	Impounded
Pump (Malebo)	1	0	Impounded
Pump (Panyane)	1	0	Impounded
Generator	1	31	Operational
Generator	1	31	Operational
	1	0	At mechanical workshop, broken by pump
LDV ((DLL 956 FS)			station driver since February 2017

• Materials

One submision was done this month but a few orders are outstanding this month

Number of Requests	Orders issued	Outstanding orders
5	0	£
3	U	3

3.4.4 Theft and Vandalism

None

3.4.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Serious personnel, equipment and	Expedite the filling of advertised positions and	
vehicles shortages.	transfer of General workers to Water Central	
	where possible. Procurement of new vehicles.	
Inability to replace infrastructure	Report system of complaints must be revisited	
rather than to repair it.	and massive replacement of old and worn out	
	infrastructure	
Poorly resourced water loss control	Staff capacity must be improved.	
and revenue protection		
	Supply Chain has to facilitate payment and	
	processing of orders.	
	Tedious procurement of highly specialized	
	maintenance repair equipment must be	
	improved.	

3.4.6 Occupational Health and Safety meetings

None

3.5 SEWER MAINTENANCE (CENTRAL)

3.5.1 Overview of Performance

Refer to achievements in 3.5.2

3.5.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 by the Sewer Section Central:

Not all block drain complaints received for the month were attended to. 2309 complaints were received for Welkom Central (of which 2031 were from the August 2018 backlog and 278 received in September 2018), 297 were reported back to have been done by Waste Water Maintenance personnel bringing the backlog to 2012.

3.5.3 Resources

• Human resources

Department/Branch	Approved	Filled	Acting	Comments
Sewer Maintenance Central	72	30	4	

• Plant and equipment

Type of vehicle / Equipment	Quantity	Days Available	Comments
Nissan Commercial Vehicles	2	31	Other vehicles still at Nissan for repairs

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
2	0	2

3.5.4 Theft and Vandalism

None

3.5.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Serious personnel and equipment	Staff capacity must be improved	
shortages		
Inability to replace infrastructure rather	Report system of complaints must be	
than to repair it.	revisited.	
Challenge	Proposed intervention	Responsibility
Excavation of sewer lines more than 7m	Tedious procurement of highly specialized	
deep.	maintenance repair equipment must be	
	improved	
Requisitions have been submitted to	Supply Chain to open store before the end of	
Supply Chain Management and covered	this month.	
are received.		

3.5.6 Occupational Health and Safety meetings

None

3.6 WASTE WATER TREATMENT WORKS & PUMP STATIONS

3.6.1 Overview of Performance

- Phomolong, Virginia, Hennenman Thabong, are in fair working condition and almost all are complying with the General Standards.
- Witpan is completed but due to blocked sewer lines from thabong and power road side plant not in operation.
- Ventersburg / Mmamahabane refurbishment and upgrade starting now June 2017.
- Theronia is out of operation. Contractor busy with final designs.
- Kutlwanong all Mechanical rakes are standing and one out of four pumps at inlet works are operating 3 to be repaired. All Aerators cables stolen again.
- Allanridge wwtw plant face one completed started with face 2.

3.6.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 at the Waste Water Treatment Works:

All data captured and stored for Green Drop assessment purposes.

- Odendaalsrus Still no sewer entering the plant
 Panels need to be replaced (been damaged by the gas in the inlet works)
 Cables were replaced plant still standing due to no inflow plant standing. There are 24 Hour security on side.
- Challenge with operation of plant due to lack of inflow of sewer water.
- Kutlwanong in operation. Plant need 24 hour Process Controller to ensure proper operation of the plant, request was submitted to HR.
- Inlet works only two pump operational Four pumps installed, lot of sand entering the plant, all electrical cables on reactor (stolen again)
- Three new pumps installed at inlet works assisting with lowering inflow to the plant.
- One RAS pumps bottom bearing broken cause SST to block (one bottom bearing repaired but SST still blocked)
 - There are 24 hour security on side.
- Phomolong theft at chlorine building, security not up to standard.
- Phomolong one screw pump need to be repaired currently standing
- Secondary sedimentation tank center bearing bolds broke, (repaired electrical problem)
- Theronia: Security needs to be improved. Plant needs to be divided into three security areas, which need to be inspected per area as the plant is too big for only 2 Security Guards.
- Theronia, pump station, bio filters, humus dams, and three pump stations need to be upgraded.
- Armed response security needs to be located at the plant before refurbishment of the plant begins.
 - No inflow to the plant as Major pump station are vandalized Contractors busy with completion of site measurements and designs.
- Thabong Both inlet screw pumps one repaired second one busy with but no inflow to plant due to blocked sewer lines. Cable been stolen at pst no 9 no dislodging can be done.

Waste Water Treatment Plant	% Functional	Comments
Thabong	0%	Security has not replaced any of the items that were stolen on the plant. Theft happened again and all aerators cables were stolen; only two could be repaired. Digester is cleaned to be commissioned. Fence are currently been striped by thefts. Botom bearings fixed plant standing due to no inflow.
Phomolong	80%	Inlet screw pumps one out of operation. SST plates were stolen and scum box fall inside. SST standing, Centre Colom broken on the SST. Awaiting repairs of some of the aerator gearboxes Theft of chlorine equipment, no chlorination can take place.
Hennenman	85%	one aerators out of operation Inlet screens replaced.
Virginia A Side	0%	
Virginia B Side	35%	Virginia WWTW are currently been upgraded on MIG project Face 2
Odendaalsrus	0%	Plant receives almost no water. Cable theft plant standing Humus dam blocked needs to be opened.(was cleaned) Drink water line to the plant stolen again. Screen motor burned
Allanridge	65%	Plant be upgraded on MIG project Busy with new anoxic zone and recycle pumps
Theronia	10%	Biofilters glugging due to sludge from Pst entering the biofilters PST can't be dislodged all cables to pump stations stolen. Theft on plant damage of almost all the pump stations. All sluices are stolen, Bio filter arms. SLA signed for upgrade of Theronia. Contractor busy with design. And start to refurbish old part for new sst dams
Ventersburg/ Mmamahabane	70%	Plant to be upgraded are approved and will start in 2017. Contractor on side for upgrade of pump station and plant.
Kutwanong	50%	Inlet works Two pump in operation.4 were installed One RAS pumps out of operation due to bad product been installed by contractor All Mechanical screens out of operation. Plant received lot of sand hampering operations. Cables stolen on reactor Reactor cables stolen.

3.6.3 Resources

• Human resources

Department/Branch	Approved	Filled	Acting	Comments
Waste Water Treatment Works & Pump Stations	154	170	13 2	There is more people at pump stations than on the current structure

• Plant and equipment

Type of vehicle / Equipment	Quantity	Days Available	Comments
			- Mechanical Workshop
LDV	4	1 21 days	- Sewer department bakkie
LDV	4	1 – 31 days	- Operational
			- No licenses
Sedan	1	1 – 30 days	- If petrol are available
		3 –31 days	- 1 Borrowed from Storm water
Tractor	4	1-0 days	- Operational, only need battery
Truck	1	0	- Standing at mechanical workshop
Kabota	1	20	- Need battery bat is operational
	3	1 – 0 days	- Used by maintenance team
Water pump trailer		1-30 days	- Used by maintenance team
		1-0 days	- Engen broken

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
4	0	10

3.6.4 Theft and Vandalism

Location	Unit	Incident	Date of incident	Approximate loss	Comments
Western pst	Welkom	Theft of copper cable/ pannels	01//2018	R150000.00	No security on site
Kutlwanong WWTW	Kutlwanong	Theft of copper cable	26/05/18	No info as jet	Was reported to security
Western pump station	Welkom	Theft of copper cable/ pannels	03//2018	R150000.00	No security on site
Odendaalsrus	OD	Theft of copper cable	28/05/18	No info as jet	Was reported to security
Major pump station	Welkom	Theft of copper cable	July	R 250000.00	Was reported to security
Thabong Plant	Welkom	Theft of copper cable	July	R20000.00	Was reported to security
Thabong Plant	Welkom	Theft of copper cable	August	No info as jet	Was reported to security
Bronville south	Welkom	Gate	August	No info as jet	Was reported to security
Major pump station	Welkom	Theft of copper cable	September	No info as jet	Was reported to security

3.6.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Serious personnel, equipment end	Virginia: Is in process of refurbishment-	
commercial vehicle problems.	Tender 85% completed.	
Vehicles (trucks for removing telecom	Kutlwanong: Qualified process controller	
containers on all the purification plants)	needs to be appointed.	

Personnel (General Workers)are needed at	Witpan is currently under construction to be	
most of the purification plants.	commissioned in October 2017.	
Urgently needs more armed security at	Phomolong Plant orders were given to Electro-	
Theronia-, Thabong-and Odendaalsrus	Mechanical for repairing of raw pumps.	
plants.		
Theft is occurring at all plants and is	Mmamahabane /Ventersburg: Project	
stripping them to a standstill.	approved to be started in 2017.	
Theronia- 66 pump station needs urgent	Nyakkalong Is in process of refurbishment-	
attention to help reduce pan water levels.	Tender 70% completed.	
Fence at Theronia complete but still theft	Odendaalsrus Plant repairs needs to be done in-	
is happening.	house. (done)	
No PPE for some plants due to supplier		
not supplying PPE		
Witpan / Thabong	Serious problems with inflow lines that	
	are blocked by Zama Zammas	

3.6.6 Occupational Health and Safety meetings

None

3.7 **PUMP STATIONS**

3.7.1 Overview of the performance

Refer to achievements in 3.7.2

3.7.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 at the Pump Stations:

PUMP STATION	PERCENTAGE (%) FUNCTIONAL
Nyakallong Pump station	50%
Bronville South Pump station	80%
Bronville North pump station	50%
Klippan Pump station	50%
Ben Reagal Pump station	0% Pump Burned
Old Thabong Pump station	60%
Rheederspark Pump station	40%
Western PST	0% Vandalized then totally flooded inside the pan
Large Frank Pump station	85%
Small frank Pump station	10%
Major Pump station	0% Vandalized
Goudrif 2 Pump station	100%
Extension 3 Pump station	0% (Totally Vandalized)
Workshop Pump station	0% (Totally Vandalized)
T8 Pump station	85%
Birch road Pump station	50%
Joel Park Pump station	50%
Power Road Pump station	60%
Traffic Pump station	30%
Duikweg pump station	0% (supply cable stolen)
Hanipark pump station	0% vandalized
Masimong pump station	0% vandalized

3.7.3 Theft and Vandalism

- At Major and Western pump station, Bronville North.
- Security at Major, Bronville North, Bronville South, and Rheederspark have left due to non-payments and it is hotspots that always get targeted.
- Major pump station can't be repaired as no security is present and raw sewer is running into Toronto pan.

3.7.4 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Serious personnel, equipment end	Kombi was requested for transport on the	
commercial vehicle problems.	19/08/2016 nothing received till now.ag again in	
	April 2017 and again in May 2017.	
Vehicles (trucks for removing telecom		
containers on all the pump stations)		
Personnel are needed at some of the pump		
stations.		
Urgently needs more armed security at all	Security needs to be appointed for all pump	
the pump stations in Matjhabeng.	stations.	
No PPE for pump station employees as	Supplier off PPE must be investigated because	
order was not delivered from last year.	he does not deliver.	
Transport for employees causing serious		
problems due to the time it took to		
deliver people at pump stations; vehicle		
is not suitable to transport workers		
Western pst	Toronto pan have raised so high that the pump	
	station are flooded now.	
Security alarms needs to be installed and		
armed response needs to be there.		

3.7.5 Occupational Health and Safety meetings

None

3.8 MATJHABENG LABORATORY

3.8.1 Overview of Performance

- Drinking Water Quality: Monitoring is outsourced to Sedibeng Scientific Services (SANAS Accredited Laboratory), according to the Risk Defined Monitoring Program.
- Drinking water is analysed for Microbiology, Chemical Acute and Chronic Health, Aesthetic, Operational and Disinfectant compliance on Point of use samples and Critical Distribution Points.
- Drinking water analysis is loaded on the IRIS
- Additional sample point for Virginia borehole done every 14 days as good practice.
- Effluent Water Quality: Monitoring is done at the Matjhabeng Laboratory according to General Authorization.
- Effluent water is analysed for Operational, Final Effluent, Process control, Up and Down stream, Storm Water canals, Pans and Ponds.
- Effluent water analysis is loaded on the IRIS
- Matjhabeng Process Controllers and WWTW is re re- registered and Classified on the IRIS

- Monitoring Industrial effluent at the abattoir in Welkom and Ventersburg
- Industrial Effluent monitoring according to the Bylaws (Decanting Certificates).
- Any other water related functions.

Drinking water Quality for August 2018 (SANS 241: 2015)

Supply System	Microbiological – Acute Health Compliance %	Chemical Acute Health Compliance % Only Annually	Chemical Chronic Health Compliance	Chemical Aesthetic Compliance %	Operational Compliance %	Disinfection Compliance %
Allanridge	99.9	99.9	99.9	99.9	99.9	99.9
Odendaalsrus	96.7	99.9	99.9	99.9	98.7	99.9
Hennenman	99.9	99.9	99.9	99.9	97.8	99.9
Virginia	99.9	99.9	99.9	99.9	99.1	99.9
Ventersburg	99.9	99.9	99.9	99.9	98.3	99.9
Welkom	99.9	99.9	99.9	99.5	99.2	99.9
Institution	99.3	99.9	99.9	99.8	99.0	99.9

Legend	Microbiological	Chemical (Health)	Physical	Operational
	(Health)		Organoleptic	
Excellent	99.9%	95%	95%	85%
Good	97%	85%	85%	80%
Need Attention	95%	80%	80%	70%
Intervention Required	<95%	<80%	<80%	<80%

Drinking water Failures:

Operational / Chemical and Aesthetic Failures:

• Turbidity failures: WEL09, HEN02

• Iron: WEL09

Microbiological failures:

• HPC Failures :

• Total Coliform: KUT07 VIR01

• E.Coli:

DWS is presently busy to convert the GDS to the IRIS program and no monthly compliance could be obtained for the month of Auagust 2018.

Laboratory LIMS calculations were used to calculate compliance

Purified Effluent water Quality August 2018: (General Authorization Limits)

WWTW	Monitoring Compliance	Microbiological Compliance %	Physical Compliance %	Chemical Compliance	Operational Compliance%
Allanridge		0.0	88.9	100.0	
Odendaalsrus		0.0	66.7	100.0	
Kutlwanong		0.0	66.7	66.7	
Theronia		0.0	66.7	100.0	
Thabong		0.0	0.0	0.0	No analysis
Witpan		0.0	0.0	0.0	No analysis
Virginia		0.0	100.0	100.0	
Hennenman		0.0	88.9	88.9	
Phomolong		0.0	66.7	100.0	
Ventersburg		0.0	0.0	0.0	Under Refurbishment
Mmamahabane		0.0	0.0	0.0	Under Refurbishment
Average Matjhabeng Municipality		8.64	34.39	25.56	

Legend	< 80 %	80 – 90 %	90– 95 %	> 95 %
	Intervention Requierd	Need Attention	Good	Excellent

Effluent water Failures:

Poor monitoring Compliance, not all the samples were done according to the approved sampling program for May due transport problems and refurbishment on WWTW.

Daily flow readings and sludge treated will be calculated under operational Compliance.

All failures are logged in WWTW Effluent Failure logbooks

3.8.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report.

3.8.3 Resources

• Human resources

Position	Approved	Filled	Acting	Comments
Laboratory Technician (ActingTechnologist)	1	1	0	Acting as Technologist
Laboratory Assistant	1	0	1	Lab Aid is Acting
Laboratory Aid 2 positions	2	2	0	
Laboratory Cleaner	1	0	0	

• Plant and equipment

None

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
	_	
1	0	1

3.8.4 Theft and Vandalism

None

3.8.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Serious personnel problem – the laboratory	Awaiting approval of the new structure -	HR
has a structure with 5 people on the approved	appointment of personnel to be DWS	
structure and 9 on the proposed structure and	approved.	
presently there are only an Acting		
Technologist (Laboratory Technician) and two		
Laboratory Aids. One is Acting as a Laboratory Assistant. The Laboratory need		
qualified personnel to comply with DWS		
regulations.		
regulations.		
No analysis done on the plants that are out of	WWTW under construction	WWTW
operation		
Most of Laboratory equipment is bought form	Laboratory is going to make use of SLA	SCM
sole suppliers in SA and therefore the		
Laboratory need to deviate from the normal		
procurement procedure – This takes long to		
obtain all the signatures for approval	C. b''	CCM
2018 PTS for SABS and NLA is still	Submissions were re submitted	SCM
Outstanding Due to no internet facilities on the WWTW	Make use of Call phones	IT
we cannot communicate with Process	Make use of Cell phones	11
Controllers regularly		
Controllers regularly		

3.8.6 Occupational Health and Safety meetings

None

3.9 <u>CIVIL ENGINEERING EAST</u>

Virginia / Meloding / Hennenman / Phomolong / Ventersburg / Mmamahabane

3.9.1 Overview of Performance

Water and Waste Water Maintenance

The maintenance personnel are responsible for both water and waste water maintenance (i.e. no separate teams for water or sewer).

Roads and Storm Water

During September 2018 Roads and Storm Water maintenance was done on a day to day basis – subject to the availability of plant, equipment, material and vehicles. Six workers from CWP under Bopa Lesedi in Hennenman were brought in to Hennenman Roads and Stormwater section by the Acting Unit Manager as the section only has three workers who do patching and stormwater maintenance.

3.9.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 in the Civil East:

Water Network:

During September 2018 Water maintenance was done on a breakdown / complaints basis only and no planned maintenance was done. 71 broken water lines were repaired. 145 water meters and connections were repaired, and 32 meters were replaced. 7 Fire Hydrants were repaired and 0 valve and 0 control valve was repaired.

Waste Water Network:

During September 2018 Waste Water maintenance was done on a breakdown / complaints basis only and no planned maintenance was done. 340 blocked sewer lines were opened and 0 sewer lid were replaced. The reason for the huge number of blockages that were opened is sand and foreign objects in the sewer systems, misuse of the sewer systems and backlogs in the cleaning of the sewer networks. The ability of the Water and Waste Water Section to perform their service delivery function is aggravated by lack of vehicles, equipment, and availability of material.

Roads:

140m² of potholes were patched and 0m² prepared. 0 m² of potholes were patched with gravel. There was 670m Roads Cleaned.

Storm Water:

4 Catch pits were repaired. 9m² Paving repaired, 7 catch pits were cleaned. 0m of lined channel has been cleaned by storm water teams. 0 m of unlined was cleaned by the storm water teams.

3.9.3 Resources

• Human resources

Department/Branch	Approved	Filled	Acting	Comments
East	221	104	21	

• Plant and equipment

Type of vehicle / Equipment	Quantity	Days Available	Comments
TLB	3	0 days	Need battery, hydraulic cap and tyres
		3-0 days	- At mechanical workshop
FDJ 947 FS		·	- Written off in Hennenman in 2016
			- Had clutch problem but now
Tipper truck	4	1 – 17 days	operational
			- At Mechanical workshop since April
Grader	2	0	2011
			- Gearbox
Truck	1	0	Not operational
Tanker	3	0	Awaiting a pump and spraying pipe for
			graveling
Concrete mixer	1	17	Operational
		5-0 days	- Starter did not work
			- At Mechanical Workshop due to
	10		gearbox
LDV	10		- Need tyres
		1-9 days	- Rear wheel bearing
		2-15 days	- Hand brake failure
		2 – 17 days	- Fuel pump
Front-end Loader	1	0	Not operational
Roller	1	17	Operational but has problem starting
Medium Truck	3	2 – 0 days 1 – 17 days	Changed with roads
		2-0 days	- Not operational
Trailer	10	8 – 17 days	- Operational
			- Problem with CV joint
		3-0 days	- At Mechanical Workshop
Tipper truck	4	1 – 17 days	- Had clutch problem but now
			operational
Low-bed	1	17	In use
	4	0	- Cylinder oil leak
Tractor			- Noise in wheel
TLB	3	0	Battery, hydraulic cap and tyres as per WR 3678
Pump	5	4 – 0 days	No operational
Company	1	1 – 17 days	On anotion of
Concrete mixer	1	17	Operational
Tipper truck	1	0	Written off in Hennenman 2016
Jet Blaster	2	0	Do not start
Compressor	1	17	Operational
Grader	1	0	At Mechanical workshop since April 2011
Pump on trailer	1	0	Operational but went back to Virginia

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September** 2018 are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
2	0	2

3.9.4 Theft and Vandalism

Nothing to report for September month 2018.

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3.9.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Vehicles standing for minor repairs for a long time- like batteries, tires and service. Unavailability of fleet.	A list of broken vehicles and equipment as well as the needs are sent to the Fleet Management section for repairs and updating on outstanding fleet.	
The unavailability of yellow fleet to blade streets and clean storm water channels.	Outdated vehicles and equipment should be replaced as soon as possible in order to reduce backlogs and produce service delivery.	
High vacancy rate.	Filling of vacancies urgently.	
Long turnaround time with requisitions	The stores must be in full operation	
The inability to replace infrastructure rather than repair it.	Replacement programme for dilapidated infrastructure must be part of capital budget and be executed.	
The back lock of in maintenance that already exists.		
Misuse of sewer network to dispose of solid waste.		
Still no computer for the Infrastructure office		
The supply of patching materials do not deliver materials	Supplier contract must be terminated, Tender must be re-advertised and a new supplier must be appointed	
Theft and vandalism		

3.9.6 Occupational Health and Safety meetings

None

3.10 <u>CIVIL ENGINEERING (WEST)</u>

Water-, Waste Water-, Roads-, Storm Water-, Building maintenance & Admin in Odendaalsrus /Kutlwanong/Allanridge/ Nyakallong.

3.10.1 Overview of Performance

Refer to achievements in 3.10.2

3.10.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September** 2018 in the Civil West:

- Repaired 66 water leaks & bursts
- Repaired 339 meters and connections
- Installed no new water meter and replaced 12 water meters

- Re-read 08 meters in Allanridge/Nykallong
- Re-read of meters in Odendaalsrus/Kutlwanong done by monitor of Finance Department
- Abnormal sewer blockages at West Side 4 received 4 were opened and 0 carried over
- Replaced / repaired no sewer lines
- Opened 301 sewer blockages, and cleaned no sewer lines.
- Cleaned/repaired/rebuild 02 sewer manholes
- Emptied sewer tanks 24 times
- Emptied vandalized sewer pump stations 08 times
- Maintained 534m roads and no leveling of dumping site
- Graded open space for funeral 03 hours
- Maintained private site for 03 hours avoiding storm water flooding
- Cleaned no lined and no un-lined canals
- Cleaned no storm water catch pits
- Replaced no catch pit cover
- Cast no catch pit covers
- Removed 16 loads refuse, removed no wing rows
- Cleaned 1240 m roads
- Repaired 236m² pot holes with tar
- Repaired no pot holes with gravel
- Repaired no paving/precon
- No maintenance of Council property
- Transported 22 loads gravel and no dump rock for Electrical Department
- 168 Hours were spend to do backfilling, transport 10 loads soil for back filling
- 72 Hours spend to cut tar & excavate for other Sections (Electrical & plumbers)

3.10.3 Resources

• Human resources

Position	Approved	Filled	Acting	Comments
West	171	51	16	Additional personnel recruited from refuse removal. Acting personnel included at filled posts

• Plant and equipment

Type of vehicle / Equipment	Quantity	Days Available	Comments
TLB Cat	1	0	Out of order for years
TLB Bell	1	0	Used for water, sewer, storm water &
			to load trucks when available. Out of
			Order
TLB Cat	1	0	Out of order for years
Tractors	4	3-0 days	Was used fill potholes, use when
		1 – 30 days	necessary and needed
Front-end Loader Ainsec	1	0	Out of order for years
Tipper truck s	4	0	All out of Order-Standing in
			Welkom/Odendaalsrus Workshops.
Tipper truck Big (DYZ 699 FS)	1	0	Wheel to be replaced
Tipper truck Med (DYH 184 FS)	1	30 days	Functional
Tipper truck Nissan small	1	30 days	Functional

Type of vehicle / Equipment	Quantity	Days Available	Comments
(DMV 604 FS)			
Tipper-Platbak Nissan	1	30 days	Working in Allanridge
Grader CAT	2	0	No road maintenance possible
Grader NEW HOLLAND	2	0	without graders
Roller	1	0	Functional – used when needed
LDV's	7	2 – 30 days	Functional in Allanridge
		5 – 30 days	Functional in Odendaalsrus
Water pump trailer	1	0	Out of Order
Water pump Gormann Rupp	1	0	Out of Order
Jet Blaster Trailer	2	0	Out of Order
Concrete Mixer	1	0	Functional – used when needed
Jet Blaster	1	0	Out of order

• Materials

Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

Number of Requests	Orders issued	Outstanding orders
1	0	30 (since 2016 – 2018)

3.10.4 Theft and Vandalism

None

3.10.5 Challenges and proposed interventions

Challenge	Proposed intervention	Responsibility
Personnel / equipment / vehicle / material	Fill critical positions with the necessary	HR / Treasury /
shortages.	qualifications and skills	Mechanical
	Ensure that employed personnel are	workshop / fleet
	resourced with vehicles, plant and	management
	equipment.	
	Ensure that suppliers are paid on time to	
	ensure delivery of material on time.	
Shortage of vehicles/equipment and plant	Repair / replace dilapidated resources, but	Mechanical
cause non-optimal usage of available	ensure that there are warrantees on all	workshop / fleet
manpower.	repairs done by outside companies.	management /
	License vehicles on time	Treasury
Poor work quality of contractors and	Appoint consultants with experience in the	PMU / SCM
damage to existing infrastructure by them	relevant field.	
impacts negatively on daily maintenance.	Appoint skilled contractors with the	
	required CIDB registration.	
	Make provision in the BOQ for the repairs	
	needed due to damage to existing	
100	infrastructure.	
MIG infrastructure projects are reserved	Source funding to pay for upgrading of	Treasury
for "low-income areas", whereas the	infrastructure in high-income areas	Council
condition of infrastructure in "high-income		administration
areas" is in a very poor condition		
compared to the "low-income" areas.		g :
Limited Capital and maintenance funds for	Source funding to resource in-house	Senior
in-house projects make the needed service	projects / maintenance	management
delivery impossible.	WG C 1'	Treasury
Continuous Sewer blockages in	#Source funding to replace outfall sewer	PMU
Odendaalsrus caused by:	and appoint consultant / contractor.	Treasury

Challenge	Proposed intervention	Responsibility
*Vandalism of the Odendaalsrus plant. *The dilapidated condition of the outfall sewer. *Dysfunctional sewer pump stations *Illegal mining activities that block sewer line to source the water. *Correctional Services and hospital poorly functioning pump stations and pretreatment sections that disposes plastic and other solid material into sewer network. * Fats discharged by fast-food outlets.	#Get By-laws in place and force large sewer dischargers to comply. #Monitor of presence of and monitoring of fat-traps. #Get SAPS to control illegal mining activities	Legal / By-laws LED
Dilapidated infrastructure can only be repaired and not replaced due to insufficient resources.	Resource the maintenance departments to enable them to replace dilapidated infrastructure and to sustain the existing infrastructure.	Senior management Treasury
The need to do dangerous construction on sewer lines for broken pipes or pipes blocked beyond opening it with standard methods.	Process requests for safety equipment. Resource section with construction equipment.	Senior management Treasury Fleet Management
Shortage of safety and specialized equipment/gear to measure and manage the high risks of toxic gases, collapsing excavations, etc. during construction and cleaning of sewer lines.	Process requests for safety equipment. Resource section with construction equipment.	Senior management Treasury
Disposal of non-sewer related material and solid waste into the sewer network that causes serious blockages.	Community education to use infrastructure responsibly	PMU Infrastructure officials
Vandalism and theft of infrastructure.	Secure high risk areas with armed response, security, fences, burglar proof, alarms, etc.	Senior management. Safety & security department Treasury

3.10.6 Occupational Health and Safety meetings

Health and safety issues are dealt with weekly on the personnel meeting of Infrastructure West. Matters discussed are:

- Ablution facilities at all West Workshops.
- The need for Speed-humps in various positions near schools to avoid children getting injured by speeding cars.

4. <u>DEPARTMENT ELECTRICAL ENGINEERING</u>

4.1 Overview of Performance

The Electrical Department was able to ensure that the electrical consumers of the Matjhabeng Municipality receives a service not withstanding all the logistical constraints that are impacting severely on the service provision capabilities of this Department.

In the Matjhabeng Electrical Licensed Distribution there were no electrical consumer with Electrical Supply for a period longer than 24 Hours

Theft and vandalism incidents are daily occurrences and are placing the Electrical Department at high risk and are impacting severely on preventative maintenance and service delivery actions to the community of Matjhabeng Municipality

4.2 SDBIP and Action Plan

A consolidated progress report on the Action Plan and Statistical Ward Report is attached as **Annexure B and C** of the monthly report, however the following was achieved for **September**2018 in the Electrical Department:

Electricity / Streetlight / High Mast Lights Complaints	Carried over from previous month	Received	Executed	Carried over
Electrical Complaints Revenue Protection	0	64	64	0
Electrical Complaints East	0	95	95	0
Electrical Complaints West	31	196	216	11
Streetlight Complaints West	204	137	156	185
Streetlight Complaints East	144	63	61	146
High Mast Lights Complaints East	14	2	4	12
High Mast Lights Complaints West	37	14	16	35
Electrical Consumer Disconnections		0	0	0
Electrical Consumer Reconnections		0	0	0
Electrical Pre Paid meters requests		9	9	0
Other	er Number			
Electrical meters inspected	296			
Electrical Remote Bulk Meter inspected and	0			
audited				
Electrical Remote Bulk Meters replaced	0			
Electrical Pre Paid meters blocked		14		
Electrical Pre Paid meters un-blocked		32		
Electrical meter disconnections monitored		31		
Electrical Pre Paid meter tampering		20		
identified and processed Permanent Electrical Connection		0		
Disconnections conducted		Ü		
Permanent Electrical Connection	on 0			
Reconnections conducted				
Income stands to be generated from the processing of Electrical Pre Paid metering				R492,818.13
tampering:				
Theft and vandalism incidents for the indicated				11
Estimated cost implication of theft and vandalism incidents for the indicated month			th	R 105,830.00
Theft and vandalism incidents for the past six				22 R 378,730.00
Estimated cost implication of theft and vandal	Estimated cost implication of theft and vandalism incidents for the past twelve months.			

4.3 Resources

• Human resources

Department/Section	Approved	Filled	Acting	Comments
Electrical Engineering	195	73	33	

• Plant and equipment

Type of vehicle /	Quantity	Available	Comments
Equipment			
LDV	2	0	Gear box and Starter
Truck	1	0	Hydraulics for lift + engine
Truck	3	0	No license / brakes / clutch
LDV	1	0	No license
LDV	2	31	Operational / 4 tiers
LDV	1	0	Hydraulics for lift + engine
Generator	3	0	Battery /license 4years
Tractor	1	0	Gear on chine / battery
LDV	1	0	Accident
Sedan	1	0	Good condition Nissan LDV
Sedan	2	0	Not at our services
Cherry picker	1	0	Standing since September 2015
LDV	1	31	
LDV	1	22	Involved in major accident from 09/03/2017
Sedan	2	0	Not at our services
LDV	1	0	Scrap
Truck	1	0	Standing for 5 years no wheels, no licensee
Truck	1	0	Standing for 2 years no engine, no license
Truck	1	0	Accident damage
Truck	1	0	Standing from 26/10/2016 engine failure
Cherry picker	1	0	Standing from 7/10/2016 engine failure
Sedan	1	0	Written off
LDV	1	0	0.00%

• Materials

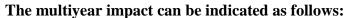
Submissions to request for procurement of Materials that were submitted this month of **September 2018** are summarized as follows:

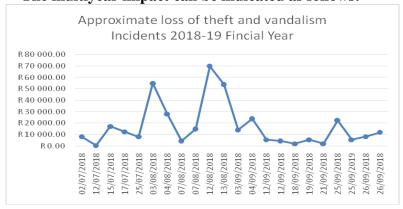
Number of Requests	Orders issued	Outstanding orders			
23	0	23			

4.4 Theft and Vandalism

Location	Unit	Incident	Financial Year	Date Of Incident	Approximate Loss	Comments
Theronia Sewerage works	Welkom	20 meter 95mm² x 3 core PEX MV copper cable	2018/19	03/09/18	R 14 000.00	No preventative action implemented by the PSTD.
Reibeeckstad Sport Stadium	Riebeeckstad	30 meter 150mm² x 3 core PEX MV copper cable	2018/19	04/09/18	R 24 000.00	No preventative action implemented by the PSTD.
Koppie Alleen Monthusi Road intersection	Riebeeckstad	20 meters cable 25mm²x4 core 1Kv SWA stolen	2018-19	12/09/18	R 5 500.00	No preventative action implemented by the PSTD.

Location	Unit	Incident	Financial Year	Date Of Incident	Approximate Loss	Comments
Koppie Alleen Monthusi Road intersection	Riebeeckstad	40 meters 19 multi core cable supplying traffic lights	2018-19	12/09/18	R 4 500.00	No preventative action implemented by the PSTD.
Thabong Sewerage Works	Welkom	Cable termination stollen	2018/19	18/09/18	R 2 000.00	No preventative action implemented by the PSTD.
151 Church Street	Odendaalsrus	10 meters cable 95mm²x4 core 1Kv SWA stolen	2018/209	19/09/18	R 5 500.00	No preventative action implemented by the PSTD.
86 Eleventh Street Industrial Area	Welkom	16 meters cable 16mm²x4 core 1Kv SWA stolen	2018/19	21/09/18	R 2 080.00	No preventative action implemented by the PSTD.
13 Van der Walt street	Odendaalsrus	150meters x 95mm² LV copper over headline	2018/19	25/09/18	R 22 500.00	No preventative action implemented by the PSTD.
13 Van der Walt street	Odendaalsrus	10 meters cable 95mm²x4 core 1Kv SWA stolen	2018/20	25/09/18	R 5 500.00	No preventative action implemented by the PSTD.
21 Monrach Street	Riebeeckstad	15 meters cable 95mm²x4 core 1Kv SWA stolen	2018/19	26/09/18	R 8 250.00	No preventative action implemented by the PSTD.
Morach Industrial	Riebeeckstad	15 meters cable 150mm²x4 core 1Kv SWA stolen	2018/19	26/09/18	R 12 000.00	No preventative action implemented by the PSTD.
Total		11			R 105 830.00	
Average cost		R 9 620.91				





The multiyear impact can be indicated as follows:

Financial Year	Period	Incidents	Estimated Cost of incidents in millions	Comments
2012-13	July 2012 to June 2013	144	R 4.80	
2013-14	July 2013 to June 2014	157	R 5.01	
2014-15	July 2014 to 23 June 2015	223	R 7.17	
2015-16	July 2015 to June 2016	299	R6,150	
2016-17	July 2016 to June 2017	134	R 4. 83	
2017-18	July 2017 to June 2018	49	R 1.95	
2018-19	July 2018 to June 2019	22	R0. 378	

4.5 Challenges and proposed interventions

Challange	Word no	Dranged intervention	Dosnonsihility
Challenge The unavailability of logistical means is impacting severely on the Electrical Department's service delivery to the community. The nonpayment of service provider's results in them not willing to process orders for material and services urgently	All wards All wards	Proposed intervention Numerous reports, motivations and requests were compiled, requesting that the Electrical Department to be properly logistically resourced. The opening of official stores for Matjhabeng Municipality is still pending Service providers must be paid duly as to the MFMA regulation	CFO and SCM CFO and SCM
Electrical department have no electrical material available to attend to breakdown situations.	All wards	The opening of official stores for Matjhabeng Municipality is still pending. Payment of service providers. Processing of Electrical submission for materials by SCM	CFO and SCM
Theft and vandalism of electrical copper infrastructure are daily occurrences in the Matjhabeng Municipality area. This is placing Council, electrical employees and the community in an eminent high risk position. This risk situation is annually costing Council millions of Rand's in fruitless expenditure due to required repairs	All wards	Council must urgently consider to provide and install security alarm systems that is monitored by 24 hour armed reaction service providers at all Electrical Infrastructure that are at high risk of theft and vandalism (Substations, Electrical Workshops and etc.).	MM, CFO, DCS, EDI
Non implementation of crucial electrical preventative maintenance action plans.	All wards	The Electrical Department must be properly resourced. Stores must be reopened. Council must urgently consider to provide and install security alarm systems that is monitored by 24 hour armed reaction service providers at all Electrical Infrastructure that are at high risk of theft and vandalism (Substations, Electrical Workshops and etc.).	MM, CFO, DCSM, SCM & EDI
The vandalism of electrical meter boxes and the non-availability of security locks and keys are leaving electrical meter boxes infrastructure open for theft, vandalism and the tampering of the electrical meters and equipment. This can	All wards	Required materials for the repair must be made available as general store items. The Electrical Department must be logistically resourced to cope with the influxes of work.	CFO & SCM

also result in a safety hazard to the community.			
Bypassing of electrical metering installations by transgressing consumers.	All wards	Drastic Revenue Protection strategies must be implemented to identify and eradicate electrical consumers that are tampering with their electrical pre-paid meters.	EDI CFO & FIS
There are no load control relays available to replace redundant and faulty relays in the electrical network, therefore no proper load management action can be initiated that might have financial savings for Council if electrical consumer loads can be moved out of high demand periods.	All wards	Annual Material Tender must be processed and awarded.	CFO & SCM
The Electrical Department has to date not been logistically resourced to conduct the function of street light repairs departmentaly as was resolved by Council Resolution to resource the Electrical Department with the required personnel, streetlight materials and vehicles	All wards	Annual Material Tenders must be processed and awarded. Electrical Department must logistical resourced. The Council resolution taken in this regards must be implemented.	MM, CFO, DCSM, SCM & EDI
Urgent repair and maintenance actions are required to be implemented on all medium and low voltage networks of Matjhabeng Municipality.	All wards	Annual Material Tenders must be processed and awarded. Electrical Department must logistical resourced.	MM, CFO, DCSM, SCM & EDI
There are no replacement protection relays and materials available to replace existing redundant and faulty relays in Matjhabeng Municipal Electrical Networks. This eminent risk situation is placing the safety of Council property, personnel and the community at risk.		Annual Material Tenders must be processed and awarded. Electrical Department must logistical resourced.	MM, CFO, DCSM, SCM & EDI
More than 300 meters of MV cable was stolen and vandalized between substation SS 9 and TS Native (The processing of the submitted submission by SCM is awaited for more than a year, therefore the non-reinstatement of the cable causes that meters of the remaining cable is further stolen and vandalized on a daily basis)	32	Replacement cable must be procured by SCM.	CFO & SCM
Hundred (100) meters of medium voltage supply cable at Steenbok Hostel was stolen and vandalized (The processing of the submitted submission by SCM is awaited for more than a year, therefore the non-reinstatement of the cable causes that meters of the remaining cable is further stolen/ vandalized on a daily basis).	32	Replacement cable must be procured by SCM.	CFO & SCM
Urania Substation situated in Bronville was broken into on the 29 April 2016 and the 132kV Electrical Control panel and five (5) x Vacume Breakers were vandalised and all copper materials were striped out from the equipment on site, the estimated cost of damages amount to R1.8 million. The insident took place whiless the site was under 24 hour security protection	24	Funding was secured from Department of Energy (R5 million) the appointment of provisional electrical engineer is awaited facilitated the process.	CFO, SCM and EDI

The supply cable between SS3 and Welkom Town Stolen and vandalised, over 350 meters x 150mm²x3Core MV PILC cable to an estimated amount of R400,000-00 must be repalced.	32	Replacement cable must be procured by SCM to date.	CFO, SCM and EDI
The 132kV 20 MVA Transformer no.2 malfuction at the Industrial Substation Welkom on the 18 October 2016 was removed by Council insurance for assessment and repairs.	32	The repaired 20MVA 132 kVA transformer was delivered in September 2017 and is currently being recommissioned.	Council Insurance
In the month of November 2016 over four hundred (400) meters of 70mm²x 3 Core Cable was stolen in Virginia Harmony, which could not be replaced due non availability of cable.	5 & 9	Replacement cable must be procured by SCM to date.	CFO, SCM and EDI
The main supply cable between the Main Intake 132kV HV Substation and the 132kV Urania Substion was stolen and vandalised on the 23 January 2017 to an estimated amount of R780,000.00.	24	Replacement cable must be procured by SCM to date.	CFO, SCM and EDI
The MV Transformer 315meter x 300mm² Single Core PEX Cables were stolen at the Welkom Industrial Substation to an estimated value of R316,497.71 on the 18 February 2017 whiles under 24 hours securily protection.	24	Replacement cable must be procured by SCM awaiting settlement of Councils Insurance.	CFO, SCM and EDI
High Mast no 27 Stand no 5405 K6 fell on a nearby churh on the 15 January 2018.	21	Insurance claim was processed for the repair of the indicated mast and church awaiting the necessary quotations for the repairs. A further four (4) mast were found to be unsafe in the Kutlwanong and Meloding Units and was removed from their foundations.	CFO, SCM and EDI
Mini Substation Tk 61 Mulfunction due to rusted cooling fins	32	No replace Mini Substation available in stock. Request for deviation repaired and submitted to SCM as result of the eminent risk situation that the businesses stand to be with electrical services,	CFO, SCM and EDI

4.6 Occupational Health and Safety meetings

In terms of the OHS Act 85/1993 the employer must comply with the following:

- Electrical Department Health and Safety Committees not functional as result of non-election of representatives.
- Member elected to the Health and Safety Committees must be trained.
- Chairpersons of Health and Safety Committees must be trained.
- First Aiders in the Electrical Department must be trained.
- General Machinery Regulations (GMR) 2 appointment for the Matjhabeng Municipality must be concluded.
- Electrical Personnel must be send for HV Switching Training.
- Electrical personnel must trained in general basic firefighting.
- Recertification of hydraulic lifting equipment needs to be certified.
- Recertification of fire extinguishers must be taking place.
- Training and appointment of Incident and Accident Investigators

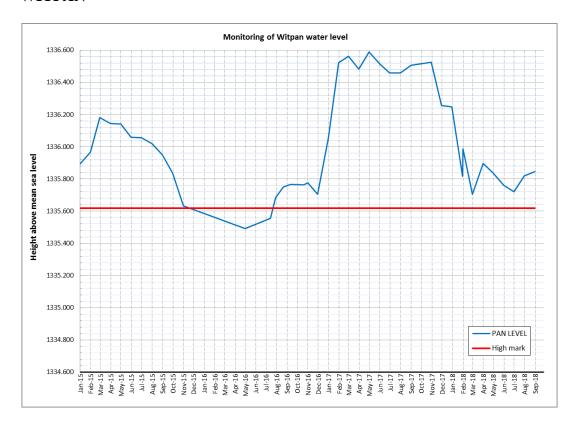
5. SUMMARY OF STATISTICS

5.1 INFRASTRUCTURE ADMINISTRATION: SUBMISSIONS/REQUISITIONS PROCESSED

	INFRASTRUCTURE ADMINISTRATION: SUBMISSIONS / REQUISITIONS PROCESSED										
	Submissions/Requisitions submitted to SCM versus those processed 2018/2019										
	Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Jun-19										
Submitted 2018/2019	18	51	29								
Processed 2018/2019	0	0	0								
Outstanding 2018/2019	18	69	98								

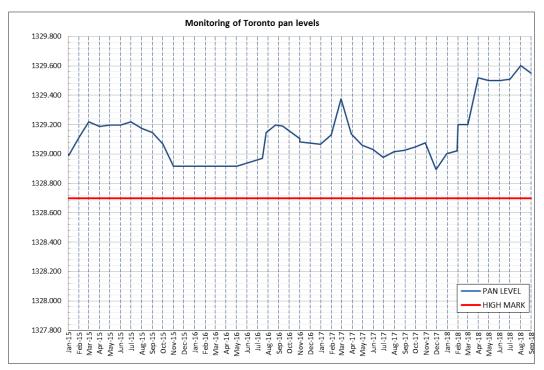
5.2 PAN LEVELS SEPTEMBER 2018

WITPAN



The pan's level has been fairly stable during the past few months. It is still above our critical level (Klippan Road) and must urgently be reduced. The road to the pump station is flooded. It is critical that the pump station be made more effective.

TORONTO PAN



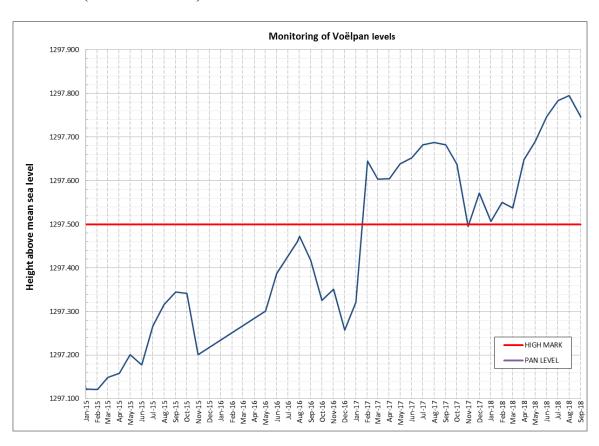
The pan's level has dropped during September. The upgrading of the Geelwortel Channel is urgently required.

FLAMINGO PAN



This pan's level has steadily dropped during the past few months. This was mainly due to no inflow from Theronia Pan. It is recommended that the purified irrigation system urgently be made operational again to ensure long term management of the level.

VOËLPAN (ALLANRIDGE)



This pan's level has dropped by almost 500mm during the last month.

40

6. CONCLUSION

The Infrastructure Directorate is often referred to as "the face of the Municipality" because it is mainly responsible for the provisioning of basic service delivery; being water, sanitation, roads and electricity, directly to the communities of the Municipality. It is therefore expected that these services must as far as possible be efficiently provided without as little interruptions as possible that may inconvenience the community. However, it is evident in this report that resources are not sufficient for the entire Directorate to effectively perform its function. Serious and urgent intervention is therefore required.

The Municipality is also required by Law to manage and keep the levels of Stormwater Evaporation Pans to an acceptable level. The level of Witpan is continuously increasing due to underground water leakages flowing through the stormwater systems to the lakes. Currently untreated sewer are also diverted to Witpan lake.

The following projects are critical to reduce the level of the pan:

- Upgrading Thabong WWTW through the Regional Bulk Infrastructure Bulk (RBIG) by the Department of Water and Sanitation (DWS) which is currently on feasibility stage.
- Formalizing and upgrading of the Mostert Canal, funded from internal capital funds, which is currently at design stage. However, the appointed Professional Service Provider have recommended on emergency Tender to instantly reduce the level of the pan.

Theft and vandalism on our sewer pump stations, misuse of sewer lines by the Community, Illegal Mining and ageing Infrastructure has caused too many blockages and spillages that were so overwhelming that we had to outsource services to assist with reducing the blockages and spillages. Serious intervention to deal specifically with the challenge of Illegal Mining has been required and application for funds to deal with ageing Infrastructure has been done to the DBSA and we await final response in anticipation.