Ugu District Municipality

UGU WATER SERVICES IN LINE WITH THE DRINKING WATER AND WASTEWATER QUALITY SERVICE REGULATIONS

PRESENTS TO ITS COMMUNITY

THE WATER AND WASTEWATER QUALITY RESULTS FOR THE YEAR ENDED

Ugu District Municipality

DRINKING WATER QUALITY RESULTS:
JANUARY 2015 TO DECEMEBER 2015

Ugu District Municipality; in line with the Blue Drop Certification Programme for Drinking Water Quality Regulation presents to its communities the water quality results for the calender year ended December 2015. The results were generally compliant to acceptable regulatory standards throughout the year, in instances where there were failures, these were addressed according to the Water Safery Plan's Incident Management Protocol. The reasons for failures were mainly due to mechanical and electrical breakdowns; these were addressed by the implementation of operational and mantainance plans, refurbishment and upgrades of some treatment works. Some plants were offline plant was due to severe drought challenges; this was addressed by means of water tankering while some plants were supplemented by supply from plants that are operational.

WASTEWATER QUALITY RESULTS:
JULY 2014 TO JUNE 2015

Ugu District Municipality; in line with the Green Drop Certification Programme for Wastewater Service Regulation presents to its communities the analysis of wastewater quality results for the finacial year ended June 2015. The results were generally compliant to acceptable regulatory standard throughout the year. In instances where there were failures, these were addressed according to the Wastewater Abatement Plan 's Incident Management Protocol. The reasons for failures were mainly due mechanical and electrical machinery breakdown and inefficiency; these have been addressed and continue to be addressed by implementation of operational and maintenance plans, refurbishment and upgrades of

UGU LEAPS TO THE NEXT PHASE OF NON REVENUE WATER REDUCTION

The Department of Water and Sanitation through its No Drop Report awarded a score of 95.38 % to Ugu District Municipality ranking the munic pality as the second best performing municipality in the province in terms reduction of non revenue water with special emphasis on water use efficiency and water losses. The non revenue water is currently sitting at 26.5% and there are plans in place to bring it further down to 21% by 2019.
The municipality recently launched a leak detection and pressure management training centre. This is first of its kind in South Africa. The aim of the centre is to train the municipal plumbing teams to operate and maintain water supply systems effeciently.

blue drop CERTIFICATION drinking water quality REGULATION
green drop CERTIFICATION municipal wastewater service REGULATION
no drop CERTIFICATION water use efficiency REGULATION

The implementation of the non revenue water reduction strategy for this financial year includes implemantation of the following programmes;

. implementation of the pressure management
. development of district metered areas
. launch of the leak detection and pressure management training centre
. water awareness campaigns
. leak detection and repair
. pipeline replacement
. meter replacement

Whilst the municipality employs all applicable resources towards conserving water, communities are urged to support the efforts made as we are trying to keep out of the critical drought threat period. The support needed can be in following ways;

. reporting of leaking pipes
. paying of provision of water services
. saving water consumption by refraing from;
  washing cars at full water pressure
  using clean drinking water for gardening
  avoiding the repair of eternal domestic leaks
  washing cars and laundry at communal standpipes

UGU INTENSIFIES SAFE DRINKING WATER AND DECENT SANITATION:

Ugu District Municipality has adopted Site Specific Water Safety Plans for its water treatment works; a key indicator in compliance to Blue Drop Certification Programme for Drinking Water Quality Regulation. Ugu District Municipality also adopted Site Specific Wastewater Risk Abatement Plans for its wastewater treatment works; a key indicator in compliance to Green Drop Certification Programme for effluent quality. The implementation of the plans will cost Ugu in the region of R184m. The plans outline the control measures that are enforced throughout the water and wastewater cycle to ensure adherence to required standards respectively.

WATER TREATMENT WORKS			Bhobhoyi	Umthamvuma	KwaFodo	KwaNyuswa I	KwaNyuswa II	Assisi	Weza	Vulamehlo	Hlokozi	Harding	KwaHlongwa	KwaLembe	KwaNdelu	Phungase	Umthwalume	Umzinto
AREA OF SUPPLY			Hibberdene - Ramsgate and Inland	Port Edward to Southbroom and Inland	Cekeza to Mthintanyoni	KwaNyuswa Area	KwaNyuswa Area	Mehlomnyama to KwaQwabe	Weza to KwaJali	Jolivet to Breamar and Inland	Hlokozi to Otting Misssion Area	Harding to Mazakhele	Malukhakha to Mgubo	KwaLembe to KwaQiko	KwaNdelu to Morrison to Stonehill	Phungase to Ndwebu	Umthwalume Rural to Sezela	Pennington to Dududu
Risk	Determinands	Unit	Percentage Compliance with South African National Standard 241:2015															
Aesthetic	Aluminim	ug/l	94.6	100	85.4	98.3	100	89.3	62	98.3	94.5	100	60.4	98	98	95.3	100	100
Aesthetic	Choride	mg/l	75	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Aesthetic	Colour	'H	90.9	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aesthetic	Conductivity mS/m	mS/m	98.3	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aesthetic	Iron	mg/l	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aesthetic	Sodium	mg/l	50	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Aesthetic	Ammonia	mg N/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Aesthetic	Phenols ug/l	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Aesthetic	Total Dissolve solids	mg/l	500	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Aesthetic	Turbidity	NTU	54.2	80.4	11.7	94.6	96.25	71	0	10.4	16.7	38.1	0	83	69.2	81.4	1000	100
Health	Ascernic	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Cadmium	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Bromoform	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Bromodichloromethane	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Chloroform	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Dibromochloromethane	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Chlorine	mg/l	80.4	63.3	23	57.1	35	71.1	40	100	Plant Offline	100	100	75.7	56	29.6	100	100
Health	Cyanide	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Cobalt	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Chromium	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Copper	mg/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	E.coli	MPN/100mL	97.9	100	97.3	100	100	97.3	98	100	94.5	95.3	98.3	92	96	97.1	100	100
Health	Flouride	ug/l	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100
Health	Mecury	ug/l	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Health	Manganese	mg/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Nickel	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Nitrite	mg N/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Nitrate	mg N/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Lead	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Antimony	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Selenium	ug/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Sulphate	mg SO4/l	75	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Total organic carbon	mg C/l	100	100	100	100	100	100	100	100	Plant Offline	100	100	100	100	100	100	100
Health	Vanadium	ug/l	100	100	100	100	100	100	100	Plant Offline	Plant Offline	100	Plant Offline	100	100	100	100	100
Health	Zinc	mg/l	100	100	100	100	100	100	100	Plant Offline	Plant Offline	100	Plant Offline	100	100	100	100	100
Operational	Coliforms	MPN/100mL	96.3	100	94.5	98.3	90.4	98	96.3	100	91.35	81	96.3	86.1	96	89	100	100
Operational	Coliphages	PFU/10ml	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Operational	Heterotrophic	37 CFU /ml	100	98.3	97.3	100	100	98	100	100	94.5	85.8	87	85	98	100	100	100
Operational	pH	pH units	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Name of Wastewater Treatment Works		Gamalakhe WWTW	Margate	Umbango	Umzinto	Uvongo	Pennington	Eden Wilds	Harding	KwaMbonwa	Murchison	Munster	Melville	Palm Beach	Red Dessert	Ramsgate	Sezela	Shelley Beach	Southbroom Package	Malangeni
Receiving Water Body		Uvongo River	Ocean	Umbango River	Mpambanyoni River	uVungu River	Pennington River	Umtamvuna River	Umzimkulwana River	Mkhoba Stream	Murchison Stream	Ground Water Seepage to	Domba	Mpenjathi River	Ground Water Seepage to Izolwane	Little Ibilanhlolo River	Ocean	Izotsha River	Soakway System-Ground	Malangeni River
Determinand	Units	Percentage Compliance with General Authorisation Standards																		
Free Chlorine	mg /L	95	88	67	92	75	92	64	100	92	88	100	90	50	100	92	100	92	100	100
Chemical Oxygen Demand	mg O2/L	77	100	75	13	79	50	91	9	100	25	17	0	100	58	83	0	92	0	100
Conductivity	mS/m	100	40	100	100	100	100	100	100	100	100	100	100	100	92	83	0	100	100	100
E.coli	MPN/100mL	32	20	33	8	1	50	73	82	38	13	100	20	100	58	75	30	33	50	9
Ammonia	mg N/L	41	100	13	17	100	0	91	0	15	25	75	0	92	25	92	100	83	100	9
pH	pH Units	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Soluble Reactive Phosphates	ug/L	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Suspended Solids	mg/L	100	96	71	4	100	100	36	27	100	25	25	0	92	42	75	20	83	50	73