

**MAINTENANCE DEPARTMENT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: JULY 2019
PREPARED: AUGUST 2019**

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MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	182		182	#
STAFF HOURS REQUIRED FOR W.O.	357.75	HRS.	357.75	HRS.
NON-CORE DUTIES HOURS	48	HRS.	48	HRS.
CD. MAN HOURS REQUIRED FOR WO	309.75	HRS.	309.75	HRS.
PM FIRE HYDRANTS	17		17	
FIRE HYDRANT REPAIR	1		1	
PM VALVE EXERCISED	1		1	
MANHOLE INSPECTIONS	9		9	
CCTV SEWER LINE	0	L. FT.	0	L. FT.
SEWER LINE CLEANED	0	L. FT.	0	L. FT.
SL RAT INSPECTIONS	0	L. FT.	0	L. FT.
VEHICLES SERVICED/REPAIRED	13		13	
# OF WATER BREAKS	0		0	
# OF SEWER BACKUPS	0		0	
# OF CLEANOUTS INSTALLED	0		0	
# OF MISS UTILITY TICKETS	135		135	
# OF METERS READ	56		56	
# OF METERS SHUT OFF	4		4	
# OF METERS TURNED ON	4		4	
# OF REPLACED METERS	0		0	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	1		1	
# OF LEAK CHECKS	49		49	
# OF REPLACED MIUs (Radios)	24		24	
CUSTOMER COMPLAINTS	0		0	
WATER COMPLAINTS REC'D	0		0	
WATER COMPLAINTS RESOLVED	100	%	100	%
WASTEWATER COMPLAINTS REC'D	0		0	
WASTEWATER COMPLAINTS RES'D	100	%	100	%
BULK WATER GALLONS AT NEW RATE	0	Gallons	0	Gallons
BULK WATER SALES-(rate \$15.18per)	\$0.00		\$0.00	

ACCOMPLISHMENTS

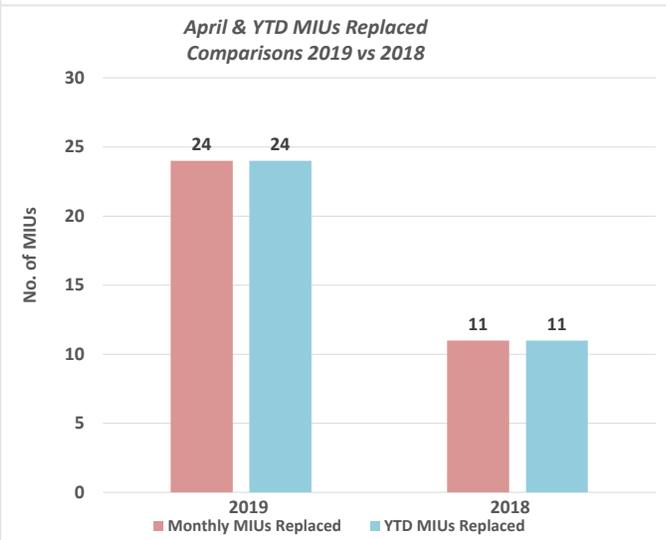
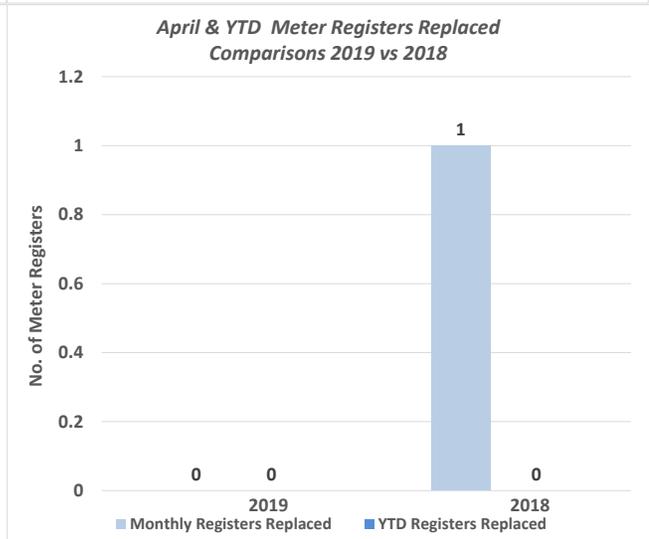
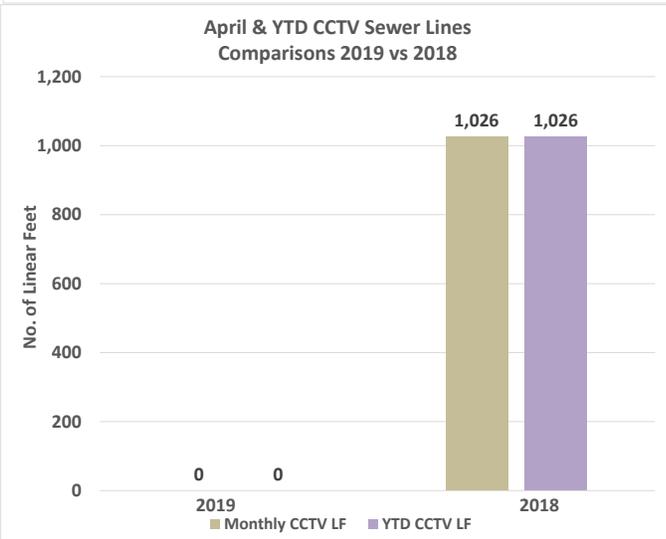
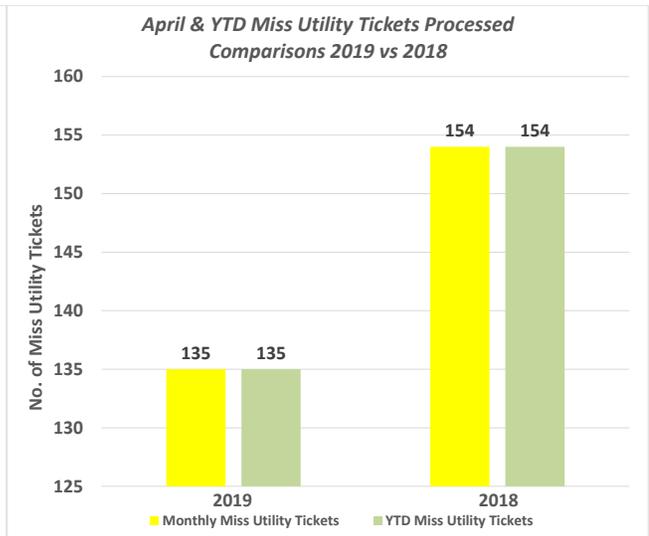
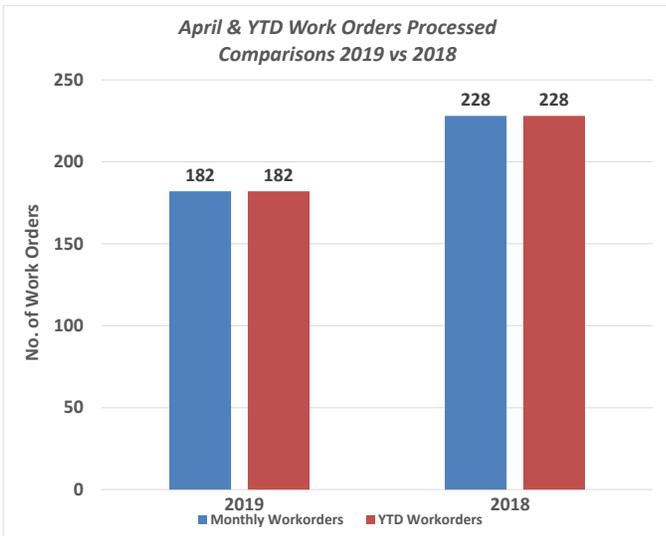
Assisted town contractor with Fire Lane painting on Main arteries within town limits
 Provided staffing for 4th of July Parade activities
 Removed and distributed L-O-V-E letters to vendors for refurbishing
 Weekly mowing operations for town owned properties/facilities

MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	228		228	#
STAFF HOURS REQUIRED FOR W.O.	446.75	HRS.	446.75	HRS.
NON-CORE DUTIES HOURS	56.5	HRS.	56.5	HRS.
CD. MAN HOURS REQUIRED FOR WO	389.75	HRS.	389.75	HRS.
PM FIRE HYDRANTS	13		13	
EMERGENCY FIRE HYDRANT REPAIR	0		0	
PM VALVE EXERCISED	88		88	
MANHOLE INSPECTIONS	1		1	
CCTV SEWER LINE	1,026	L. FT.	1,026	L. FT.
SEWER LINE CLEANED	229	L. FT.	229	L. FT.
SL RAT INSPECTIONS	10,727		10,727	L. FT.
VEHICLES SERVICED/REPAIRED	9		9	
# OF WATER BREAKS	0		0	
# OF SEWER BACKUPS	0		0	
# OF CLEANOUTS INSTALLED	0		0	
# OF MISS UTILITY TICKETS	154		154	
# OF METERS READ	45		45	
# OF METERS SHUT OFF	6		6	
# OF METERS TURNED ON	7		7	
# OF REPLACED METERS	1		1	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	12		12	
# OF LEAK CHECKS	0		0	
# OF REPLACED MIUs (Radios)	11		11	
CUSTOMER COMPLAINTS	4		4	
WATER COMPLAINTS REC'D	0		0	
WATER COMPLAINTS RESOLVED	100		100	
WASTEWATER COMPLAINTS REC'D	0		0	
WASTEWATER COMPLAINTS RES'D	100		100	
BULK WATER GALLONS AT NEW RATE	0	Gallons	459,500	Gallons
BULK WATER SALES-(rate \$15.18per)	\$0.00		\$0.00	

ACCOMPLISHMENTS

Installed 7point repair patches in Zone #4
 Cleaned pump station for the WWTP
 Installed 2 blow off sample taps on wells on the Aberdeen property
 Serviced 13 fire hydrants in Zone #4

**Maintenance Department
2019 vs 2018 Comparisons**



**WATER TREATMENT PLANT
MONTHLY OPERATIONS REPORT
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WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	1,286.0	lbs.	41.5	lbs.
POLYMER				
METAPHOSPHATE	347.8	lbs.	11.2	lbs.
SODA ASH	1,923.0	lbs.	62.0	lbs.
FLUORIDE (WTP & WELLS)	163.3	lbs.	5.3	lbs.
POTASSIUM PERMANGANATE	28.2	lbs.	0.9	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	283.8	lbs.	9.2	lbs.
CHLORINE RESIDUAL (TANK)			1.7	mg/L
AVERAGE PH (FINISHED)			7.5	SU
BULK WATER SALES	0	gals.	0.0	gals.
INLINE METER, COOPER SPRINGS	4,088,125	gals.	131,875.0	gals.
JEFFERIES WELL	0	gals.	0.0	gals.
WATER PLANT GALLONS	8,608,300	gals.	277,687.1	gals.
MARSH WELL	1,759,600	gals.	56,761.3	gals.
MOUNTAIN VIEW WELL	703,000	gals.	22,677.4	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	3,163,073	gals.	102,034.6	gals.
CORNWELL #2 WELL	1,670,140	gals.	53,875.5	gals.
FORBES WELL	1,416,334	gals.	45,688.2	gals.
HIRST #2 WELL	0	gals.	0.0	gals.
TOTAL WATER FLOW	17,320,447	gals.	558,724.1	gals.

RESERVOIR LEVELS:	1-Jul-2019	31-Jul-2019
FRONT LAKE:	5.56'	5.60'
BACK LAKE	4.88'	4.86'
RAINFALL:	6.61"	

WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	1,403.6	lbs.	45.3	lbs.
POLYMER				
METAPHOSPHATE	121.8	lbs.	3.9	lbs.
SODA ASH	2,315.2	lbs.	74.7	lbs.
FLUORIDE (WTP & WELLS)	146.3	lbs.	4.7	lbs.
POTASSIUM PERMANGANATE	22.9	lbs.	0.7	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	257.5	lbs.	8.3	lbs.
CHLORINE RESIDUAL (TANK)			1.7	mg/L
AVERAGE PH (FINISHED)			7.6	SU
BULK WATER SALES	-	gals.	0	gals.
INLINE METER, COOPER SPRINGS	4,696,500	gals.	151,500	gals.
JEFFERIES WELL	0	gals.	0	gals.
WATER PLANT GALLONS	8,697,000	gals.	280,548	gals.
MARSH WELL	2,101,400	gals.	67,787	gals.
MOUNTAIN VIEW WELL	733,300	gals.	23,655	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	3,082,455	gals.	99,434	gals.
CORNWELL #2 WELL	1,896,655	gals.	61,182	gals.
FORBES WELL	974,996	gals.	31,451	gals.
HIRST #2 WELL	0	gals.	0	gals.
TOTAL WATER FLOW	17,485,806	gals.	564,058	gals.

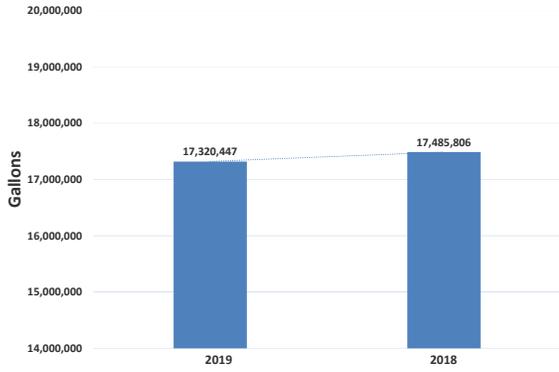
RESERVOIR LEVELS:	1-Jul-2018	31-Jul-2018
FRONT LAKE:	5.82'	5.62'
BACK LAKE	4.90'	5.08'
RAINFALL:	8.25"	

ACCOMPLISHMENTS

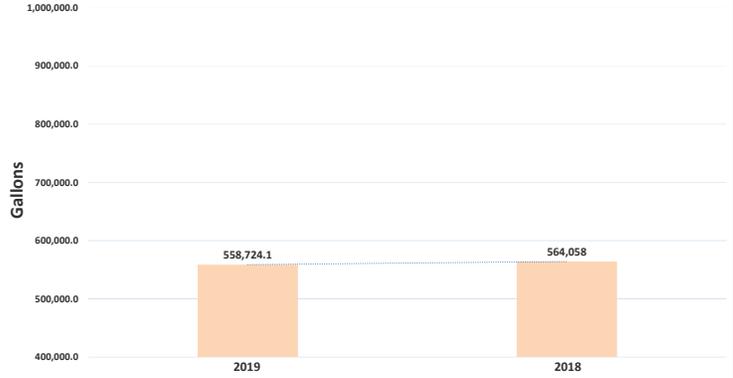
VDH ODW Monthly Operating Report due 08/10 was submitted electronically on 08/02/2019. -
 Four Weekly Water Production Reports were completed.
 Completed demolition of barn on Jeffries property. Set up chlorine treatment in temporary structure.
 Christopher Burdette completed Water Treatment Short Course at VA Tech

**Water Well Production Facilities
July 2019 vs 2018 Comparisons**

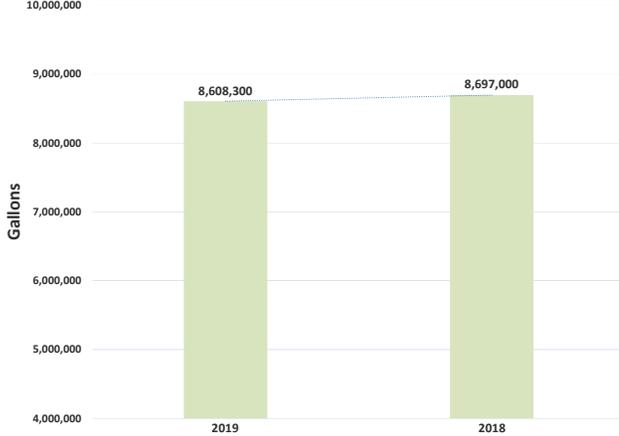
July Total Monthly Water Production 2019 vs 2018



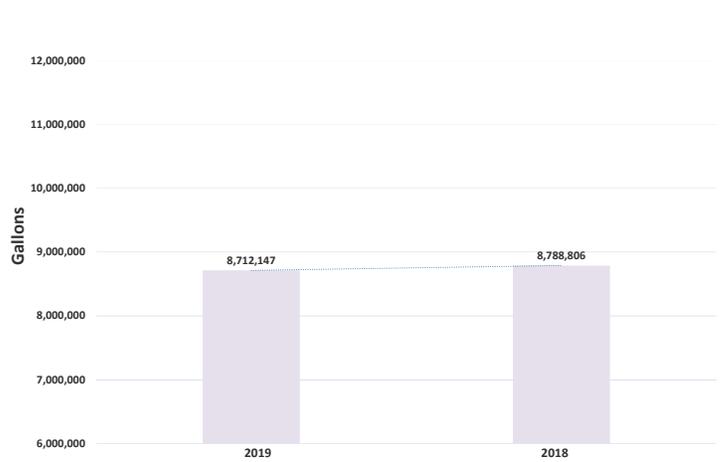
July Total Average Daily Water Production 2019 vs 2018



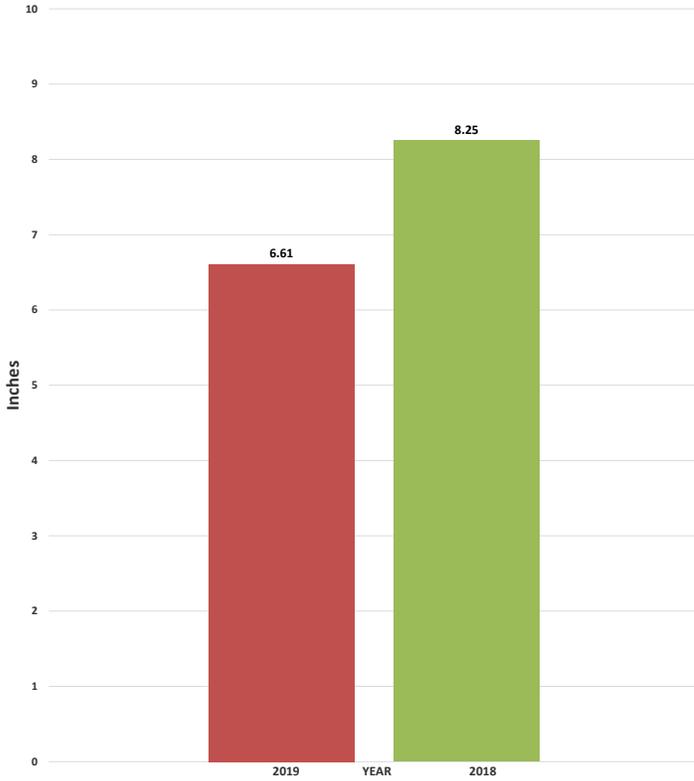
July Monthly Water Plant Water Production 2019 vs 2018



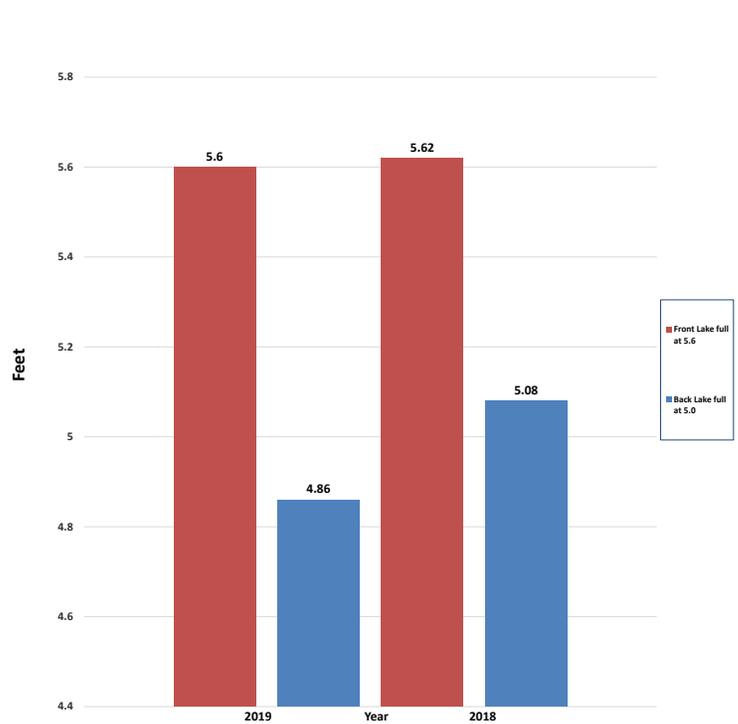
July Monthly Well Water Production 2019 vs 2018



July Monthly Precipitation 2019 vs 2018



Front & Back Lake Levels 2019 vs 2018



**WATER RECLAMATION FACILITY
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MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	13,906,100 GAL	432,500 GAL
EFFLUENT FLOW	17,467,500 GAL	563,500 GAL
MAXIMUM DAY INFLUENT	554,200 GAL	
FERRIC CHLORIDE	2,892 GAL	91 GAL
CITRIC ACID	207 GAL	69 GAL
SODIUM HYPOCHLORITE	412 GAL	59 GAL
METHANOL	924 GAL	30 GAL
RAIN	5.75 IN.	0.19 IN.

MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	18,445,900 GAL	595,000 GAL
EFFLUENT FLOW	22,584,300 GAL	728,500 GAL
MAXIMUM DAY INFLUENT	1,221,100 GAL	
FERRIC CHLORIDE	1,903 GAL	63 GAL
CITRIC ACID	286 GAL	72 GAL
SODIUM HYPOCHLORITE	276 GAL	55 GAL
METHANOL	992 GAL	32 GAL
RAIN	9.15 IN.	0.30 IN.

MONTHLY TOTAL NUTRIENT DISCHARGE

TOTAL NITROGEN	58 LBS.
TOTAL NITROGEN YTD	497 LBS.
AVG. DAILY NITROGEN	0.39 MG/L
VPDES NITROGEN LIMIT	4.0 MG/L
TOTAL PHOSPHORUS	34 LBS.
TOTAL PHOSPHORUS YTD	234 LBS.
AVG. PHOSPHORUS DAILY	0.22 MG/L
VPDES PHOSPHORUS LIMIT	0.3 MG/L

MONTHLY TOTAL NUTRIENT DISCHARGE

TOTAL NITROGEN	131 LBS.
TOTAL NITROGEN YTD	791 LBS.
AVG. DAILY NITROGEN	0.74 MG/L
VPDES NITROGEN LIMIT	4.0 MG/L
TOTAL PHOSPHORUS	25 LBS.
TOTAL PHOSPHORUS YTD	185 LBS.
AVG. PHOSPHORUS DAILY	0.12 MG/L
VPDES PHOSPHORUS LIMIT	0.3 MG/L

ACCOMPLISHMENTS

Lindey Sibert and Emma Watts attended Good Lab Practice training in Charlottesville
 All Staff received training on (EMS) Wastewater By-passes and unusual discharges,
 (Plant Process) Plant SCADA System Operation, (Safety) Chemical Hazard Communication Program, (LAB) cBOD Minimum D.O. Limits notification, ordering supplies.
 Planned Preventive Maintenance on 9 Pieces of plant equipment
 20 maintenance activities on equipment and buildings

Submitted VDEQ discharge monitoring report, Virginia's nutrient report & Chesapeake Nutrient 5 Year Plan.

NIA No information available at this time.

Basham Simms Water Reclamation Facility 2019 vs 2018 Comparisons

