AGENDA
UTILITIES COMMISSION MEETING

THURSDAY, JANUARY 12, 2023 5:30 P.M. 8500 PUBLIC WORKS DRIVE

I. Call Meeting to Order – Chairman Schornick

II. Determination of Quorum

III. Chairperson's Report

IV. Approval of Minutes – December 8, 2022

V. Staff Reports

		Time	
a.	Director of Utilities Update (Tony Dawood)	5 minutes	
b.	Cash Report and Budget Update (Glenn Simpson)	5 minutes	5
c.	Utility Customer Service Report (Ana Davis)	5 minutes	9
d.	Electric Operations Report (Tony Dawood)	5 minutes	10
e.	Water & Sewer Operations Report (Michael Nicholson)	5 minutes	14
f.	Purchase Orders Approved – December 2022		19

VI. New Business

g.	Sanitary Sewer Infrastructure Ownership and Maintenance on UOSA Lines at 8500 Public Works Drive (Michael Nicholson)	5 minutes	20
h.	Clearwell Presentation from 2022 Water Jam Conference (Michael Nicholson)	15 minutes	21

VII. Old Business

None

VIII. Closed Session

None

IX. Adjournment of Meeting

DISTRIBUTION:

JAMES SCHORNICK, CHAIRMAN
THERESA COATES. ELLIS, COUNCILMEMBER
MASON HOLLCROFT, COMMISSIONER
JEFFREY MCWHIRT, COMMISSIONER
KELSEY RAINVILLE, COMMISSIONER
STEPHEN SILBERSTEIN, COMMISSIONER
COURTNEY TOLSON, COMMISSIONER
W. PATRICK PATE, CITY MANAGER
BRYAN FOSTER, DEPUTY CITY MANAGER
TONY DAWOOD, DIRECTOR OF UTILITIES
VACANT, ASSISTANT DIR ELECTIC
ANA DAVIS, UTILITIES SERVICES MANAGER
MICHAEL NICHOLSON, ASSISTANT DIR W&S
GLENN SIMPSON, UTIL FINANCE MANAGER
FILE

UTILITY COMMISSION
REGULAR MEETING
MINUTES

Thursday, December 8, 2022
8500 Public Works Drive, Manassas, VA 20110

I. CALL MEETING TO ORDER

James Schornick, Chairman, called the meeting to order at 5:30 p.m.

II. DETERMINATION OF QUORUM

MEMBERS PRESENT: Chairman James Schornick, Councilman Mark Wolfe, Commissioner Mason Hollcroft, Commissioner Kelsey Rainville, Commissioner Stephen Silberstein, Commissioner Courtney Tolson

MEMBERS ABSENT: Commissioner Jeffrey McWhirt

STAFF PRESENT: Director of Utilities Tony Dawood, Administrative Coordinator Daralyn Baker, Utilities Finance Manager Glenn Simpson, Utilities Services Manager Ana Davis, Assistant Director of Water & Sewer Michael Nicholson

STAFF ABSENT: Deputy City Manager Bryan Foster

GUESTS PRESENT: None

III. CHAIRPERSON'S TIME

There was no Chairperson's update this month.

IV. APPROVAL OF MINUTES – October 13, 2022

MOTION: Commissioner Rainville made the motion to approve the October 13, 2022 minutes as submitted. There was no meeting held in November, 2022.

SECOND: Commissioner Hollcroft **VOTE:** Unanimous

V. STAFF REPORTS

A. DIRECTOR'S UPDATE

Mr. Dawood informed the Commission that the Public Safety Center is completed, and personnel are beginning to move in.

The City Manager is allocating ARPA funds to be used on CIP projects specifically the Water Treatment Plant, Dewatering Facility, Dean Drive and the Vint Hill project.

Mr. Dawood touched on the substation vandalism that occurred in North Carolina and relayed that analysis are being conducted at City's substations and increased security such as fencing and cameras will be considered to the City's substations if necessary.

B. CASH REPORT AND BUDGET UPDATE

Glenn Simpson, Utilities Finance Manager, presented the Cash Report for the month of November. The Total Unrestricted Utility Operating Cash as of December 1, 2022 was $23,226,360.57 and reflects the VMEA payment of $2,467,162.30 made on November 16, 2022.

C. CUSTOMER SERVICE REPORT

Ana Davis, Utilities Services Manager, presented the November Customer Service Report. Ms. Davis reported there were 17,118 accounts billed throughout the month of November. Total revenue billed was $6,388,751.79 and revenue collected was $6,494,279.17. The City wrote off $16,856.53 this month and collected $529.24 from in-house, resulting in a net collection of $16,327.29.

D. ELECTRIC OPERATIONS REPORT

Tony Dawood, Director of Utilities, reported that there were 10 (ten) outages during the month of November. Four (4) outages were out of Prince William Substation, four (4) outages out of Battery Heights Substation, one (1) out of Point of Woods Substation, and one (1) out of Airport Substation.

The October VMEA billing was $2,428,686 ($0.860 kwh) and reflects a Dominion true-up of $75,618. The City coincident peak for the month of November occurred on November 21, 2022 for a peak of 51.5 MW. The Dominion Power peak was 16,779 MW.

Mr. Dawood also reported on the following CIP Projects and their status:

CIP Project and Description	Status
E30 – Underground Cable Replacement	Crews have begun work in August 2022 on Silver Maple Area. Cannon Ridge area work began in March 2022 and cable installation began in August 2022.

E33 – Overhead to Underground Relocation (Electric Reliability)	Longstreet Drive from Grant to Portner is in design.
E34 – LED Streetlights	Currently working on neighborhood collector streets.

E. WATER AND SEWER OPERATIONS REPORT

Michael Nicholson, Assistant Director of Water & Sewer, presented the Water & Sewer Operations Report for the month of November. There were two (2) water main breaks and one (1) sewer blockage in November.

Mr. Nicholson also reported on the following CIP Projects and their status:

CIP Project and Description	Status
W-42 – 24" Transmission Main Replacement	Phase VI-A is under construction. Contractor mobilized and will be scheduling the start of the waterline work in the next few weeks. Staff notified of 2.4 million dollars of Stem Grant to be used for Phase IV.
W-47 – Finished Water Capacity Increase	Project to bid in January 2023.
W-50 – Main Replacement Looping	Longstreet Drive – design at 90%. Bragg Lane – Design at 100%. Bid awarded to Crown Construction. Pipe should be completed January 2023.
W-65 – Clear Well Addition & Roof Replacement	Tanks is currently under roof, finish coats to be applied this month.
W-70 – Water Plant Improvements FY18	Replacement of flocculator paddles is in progress. Replaced valves and actuator controls on pulsator.

F. PURCHASE ORDERS APPROVED – NOVEMBER 2022

There were no large purchase orders this month.

VI. NEW BUSINESS

VII. OLD BUSINESS

VIII. CLOSED SESSION

IX. ADJOURNMENT OF MEETING

There being no further business; a motion was made, second and carried unanimously to adjourn the meeting. Chairman Schornick adjourned the regular meeting at 6:20 p.m.

City of Manassas
Utilities Fund Cash

Fund 520-Sewer Fund	1/3/2022	1/3/2022	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017
Equity In Pooled Cash	$ 1,009,904.46	$ 2,830,260.44	$ 6,327,078.06	$ 5,226,353.65	$ 3,382,508.84	$ 13,803,161.75	$ 6,396,925.89	$ 6,162,325.75
Investments	-	-	-	-	-	-	-	-
Maintenance Reserve	-	-	-	-	-	-	-	-
Total Unrestricted Cash & Investments	$ 1,009,904.46	$ 2,830,260.44	$ 6,327,078.06	$ 5,226,353.65	$ 3,382,508.84	$ 13,803,161.75	$ 6,396,925.89	$ 6,162,325.75
Rate Stabilization Fund	$ 2,931,638.33	$ 2,681,427.83	$ 2,681,427.83	$ 2,681,427.83	$ 2,077,492.08	$ 1,571,858.08	$ 620,958.85	$ 2,083,778.85
Investments Restricted	9,722,452.08	8,564,209.57	8,579,890.70	8,560,857.05	8,673,820.60	7,985,357.07	6,802,680.91	6,691,656.26
Capital Projects Fund	8,287,487.14	8,129,157.20	7,903,149.67	5,163,929.62	4,337,820.18	2,516,771.94	2,021,102.00	1,935,204.70
Total Restricted Investments & Capital	$ 20,941,577.55	$ 19,374,794.60	$ 19,164,468.20	$ 16,406,214.50	$ 15,089,132.86	$ 12,073,987.09	$ 9,444,741.76	$ 10,710,639.81
Total Cash, Investments & Capital	**$ 21,951,482.01**	**$ 22,205,055.04**	**$ 25,491,546.26**	**$ 21,632,568.15**	**$ 18,471,641.70**	**$ 25,877,148.84**	**$ 15,841,667.65**	**$ 16,872,965.56**
UOSA Quarterly Payment	$ 2,504,015.00							

Fund 530-Water Fund	1/3/2022	1/3/2022	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017
Equity In Pooled Cash	$ 1,733,019.38	$ 75,302.81	$ 9,051,348.29	$ 2,667,547.13	$ 2,145,377.16	$ 2,170,209.32	$ 1,603,339.90	$ 4,234,741.03
Investments	896,329.87	884,254.48	885,487.54	883,990.91	882,373.00	866,400.30	840,363.72	832,553.32
Maintenance Reserve	872,724.69	861,046.53	862,247.21	860,789.83	859,213.70	844,031.91	818,646.63	810,240.28
Total Unrestricted Cash & Investments	$ 3,502,073.94	$ 1,820,603.82	$ 10,799,083.04	$ 4,412,327.87	$ 3,886,963.86	$ 3,880,641.53	$ 3,262,350.25	$ 5,877,534.63
Investments Restricted	$ 8,051,582.02	$ 7,354,494.45	$ 7,364,749.70	$ 7,352,301.95	$ 6,796,909.16	$ 6,209,103.63	$ 5,281,199.84	$ 5,231,788.12
Capital Projects Fund	25,005,140.73	36,147,088.82	26,340,712.58	18,182,396.84	24,102,503.99	26,990,380.43	11,018,828.21	8,177,534.82
Total Restricted Investments & Capital	$ 33,056,722.75	$ 43,501,583.27	$ 33,705,462.28	$ 25,534,698.79	$ 30,899,413.15	$ 33,199,484.06	$ 16,300,028.05	$ 13,409,322.94
Total Cash, Investments & Capital	**$ 36,558,796.69**	**$ 45,322,187.09**	**$ 44,504,545.32**	**$ 29,947,026.66**	**$ 34,786,377.01**	**$ 37,080,125.59**	**$ 19,562,378.30**	**$ 19,286,857.57**

Fund 540-Electric Fund	1/3/2022	1/3/2022	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017
Equity In Pooled Cash	$ 14,711,727.75	$ 17,102,703.60	$ 17,513,019.38	$ 18,879,437.93	$ 18,274,493.75	$ 15,860,623.05	$ 13,877,745.17	$ 11,860,729.32
Investments	423,548.85	417,881.24	418,463.95	417,756.64	416,991.71	409,623.72	397,303.78	391,450.01
Maintenance Reserve	605,292.00	597,192.44	598,025.18	597,014.41	595,921.27	585,391.69	567,785.31	563,962.34
Total Unrestricted Cash & Investments	$ 15,740,568.60	$ 18,117,777.28	$ 18,529,508.51	$ 19,894,208.98	$ 19,287,406.73	$ 16,855,638.46	$ 14,842,834.26	$ 12,816,141.67
Investments Restricted	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Projects Fund	8,974,724.78	7,501,144.81	7,295,738.99	6,664,237.59	5,758,316.33	4,441,995.66	5,179,561.36	6,252,017.38
Total Restricted Investments & Capital	$ 8,974,724.78	$ 7,501,144.81	$ 7,295,738.99	$ 6,664,237.59	$ 5,758,316.33	$ 4,441,995.66	$ 5,179,561.36	$ 6,252,017.38
Total Cash, Investments & Capital	**$ 24,715,293.38**	**$ 25,618,922.09**	**$ 25,825,247.50**	**$ 26,558,446.57**	**$ 25,045,723.06**	**$ 21,297,634.12**	**$ 20,022,395.62**	**$ 19,068,159.05**

Total Unrestricted	$ 20,252,547.00	$ 22,768,641.54	$ 35,655,669.61	$ 29,532,890.50	$ 26,556,879.43	$ 34,539,441.74	$ 24,502,110.40	$ 24,856,002.05
Total Restricted	62,973,025.08	70,377,522.68	60,165,669.47	48,605,150.88	51,746,862.34	49,715,466.81	30,924,331.17	30,371,980.13
Total Cash Utilities	**$ 83,225,572.08**	**$ 93,146,164.22**	**$ 95,821,339.08**	**$ 78,138,041.38**	**$ 78,303,741.77**	**$ 84,254,908.55**	**$ 55,426,441.57**	**$ 55,227,982.18**

Electric Fund Budget vs Actual FY23

Revenue & Expenditures

Bill Mo	FY 23 Budget Revenue	FY 23 Actual Revenue	FY 23 Actual Expenditures	Actual Rev over Budgeted Rev	Purchase Power**
07/22	$ 3,869,733	$ 3,750,546	$ 4,138,871*	-3.08%	$ 3,050,474
08/22	4,332,695	4,537,072	$ 3,132,363	4.72%	2,227,890
09/22	4,278,024	4,845,913	$ 4,837,241	13.27%	2,750,378
10/22	3,453,465	4,148,952	$ 6,016,047***	20.14%	2,428,686
11/22	3,067,936	3,571,129	$ 4,247,735	16.40%	2,773,737
12/22	3,043,952	4,106,610	$ 3,600,039	34.91%	2,750,000
01/23					
02/23					
03/23					
04/23					
05/23					
06/23					
	$ 22,045,805	$ 24,960,222	$ 25,972,296	13.22%	$ 15,981,165

*Includes $300K to NVTA Fund Capital which were budgeted

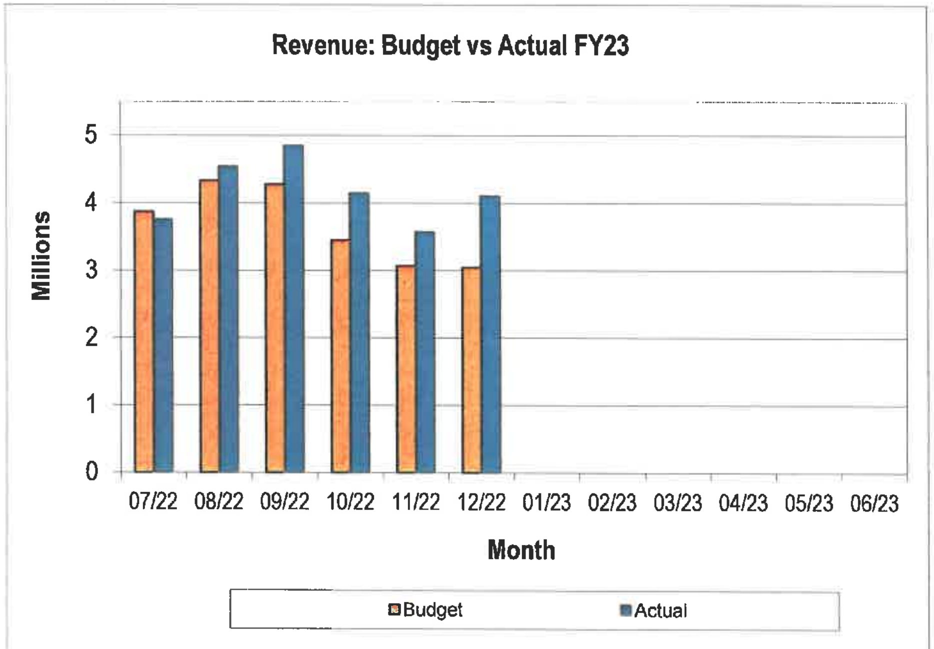
*Includes $51,703 to Debt Service which were budgeted

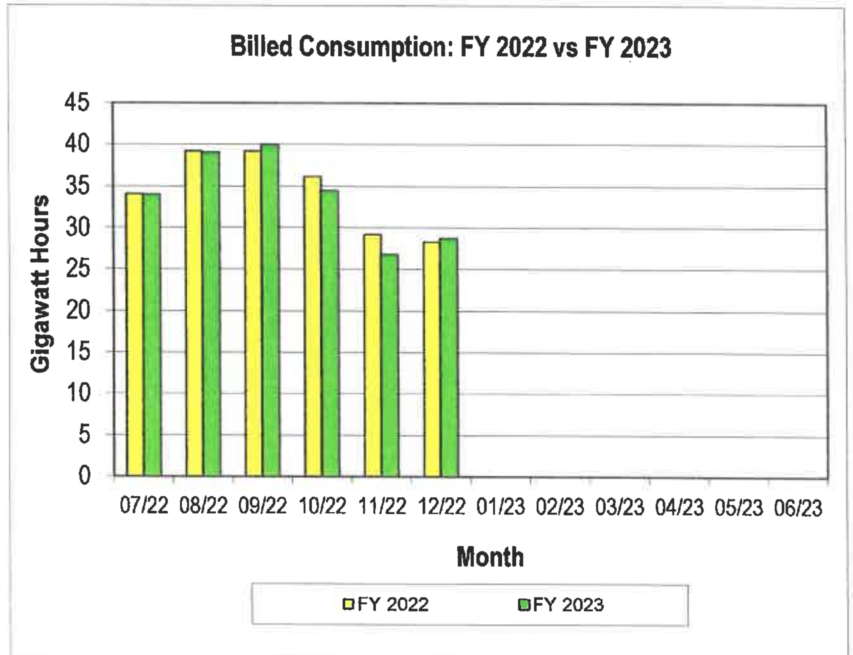
*** Includes 2,600,000 transefer to Electric Capital

Billed Consumption

Bill Mo	FY 23 Budget Total kWh	FY 23 Actual Total kWh	FY 22 Actual Total kWh	Actual over Budgeted	FY23 over FY22
07/22	37,084,340	34,000,975	34,049,830	-8.31%	-0.14%
08/22	41,687,927	38,992,225	39,174,321	-6.47%	-0.46%
09/22	41,031,811	39,957,776	39,172,474	-2.62%	2.00%
10/22	33,066,204	34,446,995	36,148,600	4.18%	-4.71%
11/22	29,228,737	26,760,203	29,242,658	-8.45%	-8.49%
12/22	28,941,463	28,728,328	28,315,725	-0.74%	1.46%
01/23					
02/23					
03/23					
04/23					
05/23					
06/23					
	211,040,482	202,886,502	206,103,608	-3.86%	-1.56%

*





Water Fund Budget vs Actual FY23

Revenue & Expenditures

Bill Mo	FY 23 Budget Revenue	FY 23 Actual Revenue	FY 23 Actual Expenditures	Actual Rev over Budgeted Rev
07/22	$ 955,561	$ 991,285	$ 1,999,145*	3.74%
08/22	$ 1,042,929	1,115,122	517,607	6.92%
09/22	$ 1,007,701	1,142,521	777,414	13.38%
10/22	$ 981,027	1,059,221	649,723	7.97%
11/22	$ 904,418	1,175,399	1,073,478	29.96%
12/22	$ 872,897	1,002,496	651,692	14.85%
01/23				
02/23				
03/23				
04/23				
05/23				
06/23				
	$ 5,764,533	$ 6,486,044	$ 5,669,059	12.52%

*Includes $1,417,668 to Debt Service which were budgeted

Billed Consumption

Bill Mo	FY 23 Budget Total Kgal	FY 23 Actual Total Kgal	FY 22 Actual Total Kgal	FY23 over FY22	Retail FY23 over FY22	Wholesale FY23 over FY22
07/21	351,607	317,553	359,112	-11.57%	-0.13%	-25.38%
08/21	386,108	349,324	398,951	-12.44%	6.67%	-29.24%
09/21	370,016	415,605	370,923	12.05%	0.19%	24.07%
10/21	357,295	363,307	352,479	3.07%	1.65%	1.36%
11/21	341,623	363,193	350,390	3.65%	-0.23%	7.76%
12/21	330,474	334,953	328,874	1.85%	1.43%	1.11%
01/22						
02/22						
03/22						
04/22						
05/22						
06/22						
	2,137,123	2,143,935	2,160,729	-0.78%	1.69%	-3.82%

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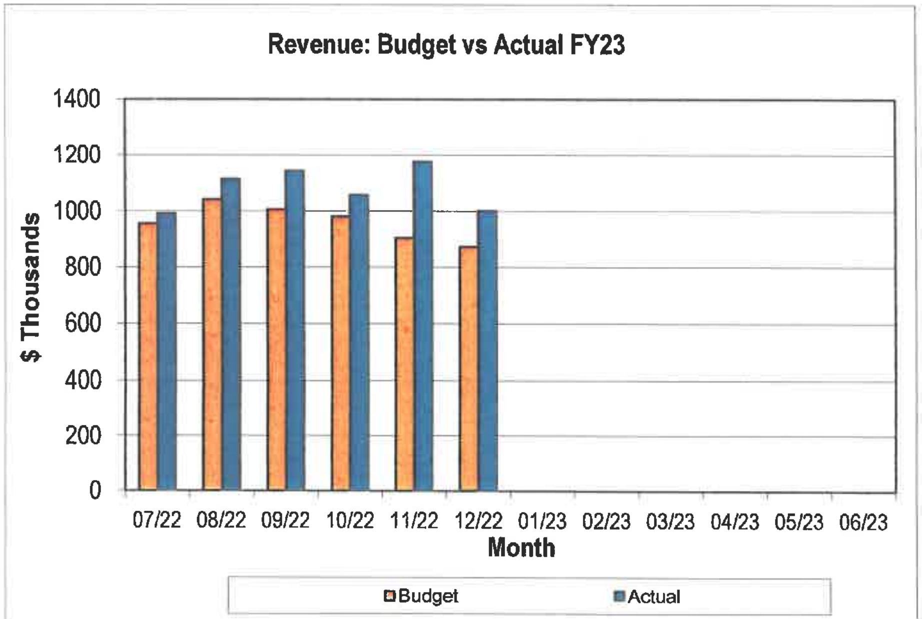
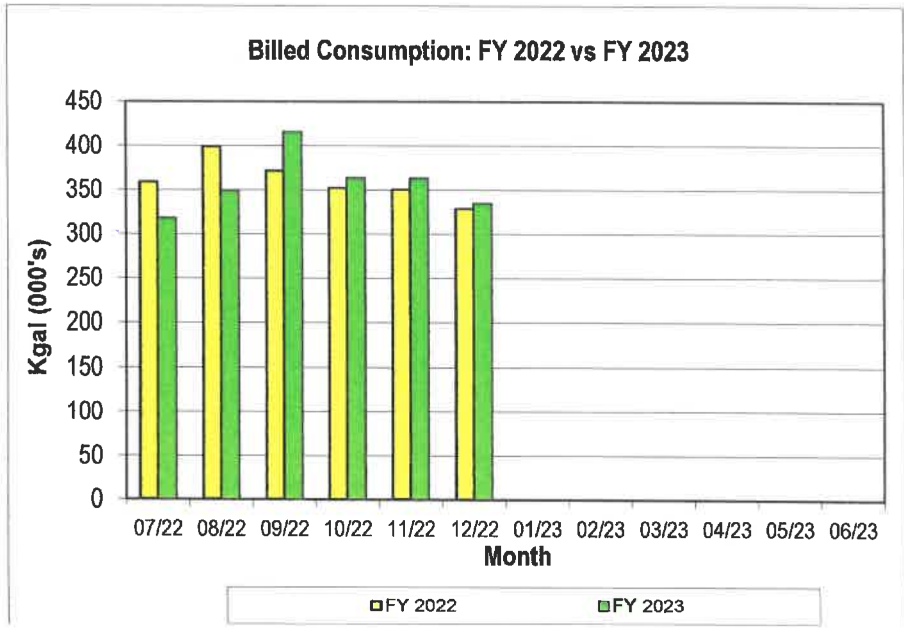




Sewer Fund Budget vs Actual FY23

Revenue & Expenditures

Bill Mo	FY 23 Budget Revenue	FY 23 Actual Revenue	FY 23 Actual Expenditures	Actual Rev over Budgeted Rev	UOSA Treatment
07/22	$ 1,436,678	$ 1,392,292	$ 4,672,920*	-3.09%	$ 2,701,824
08/22	$ 1,474,553	1,512,919	104,112	2.60%	
09/22	$ 1,470,177	1,490,753	3,154,909	1.40%	2,885,993
10/22	$ 1,457,597	1,428,896	742,754**	-1.97%	
11/22	$ 1,421,043	1,494,574	413,331*	5.17%	
12/22	$ 1,400,477	1,417,455	2,908,349**	1.21%	2,504,015
01/23					
02/23					
03/23					
04/23					
05/23					
06/23					
	$ 8,660,525	$ 8,736,889	$ 11,996,375	0.88%	$ 8,091,832

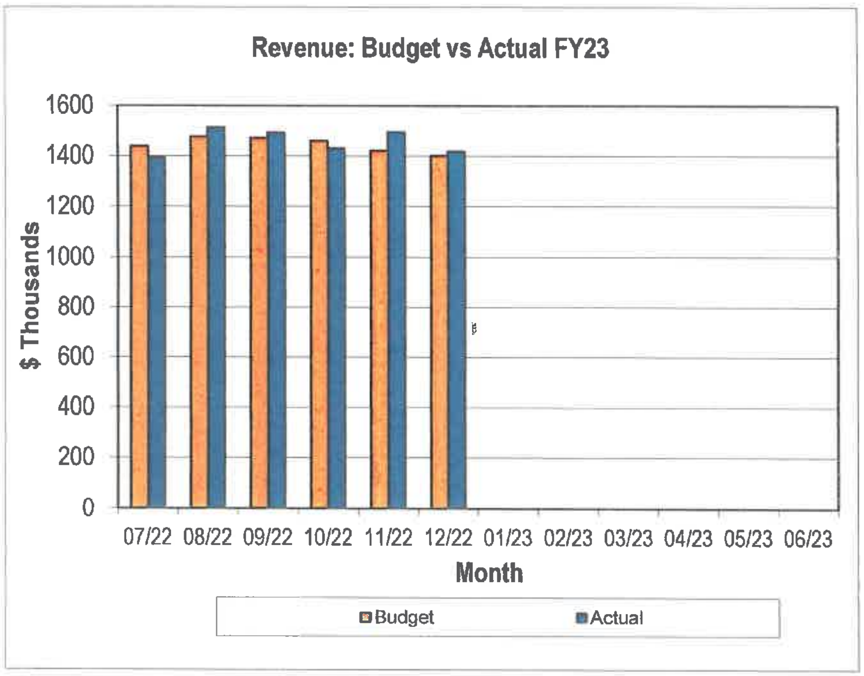
*Includes $1,514,850 to Debt Service which were budgeted

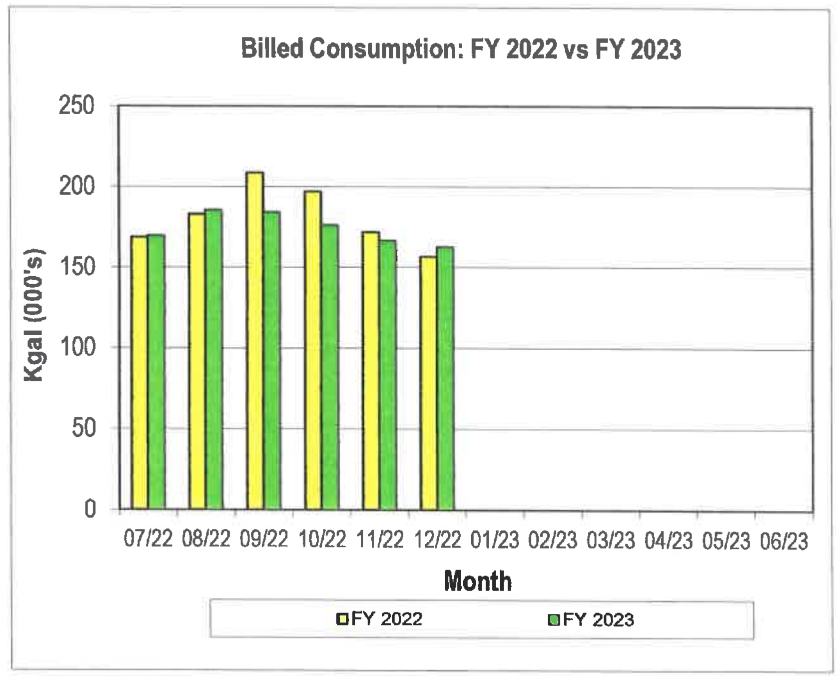
*Includes $31,000 to NVTA Fund Capital which were budgeted

** includes 450,000 transfer to Sewer Capital

Billed Consumption

Bill Mo	FY 23 Budget Total Kgal	FY 23 Actual Total Kgal	FY 22 Actual Total Kgal	Actual Over Budgeted	FY 23 over FY 22
07/22	167,486	169,685	169,126	1.31%	0.33%
08/22	178,125	185,390	182,969	4.08%	1.32%
09/22	176,577	184,020	208,767	4.22%	-11.85%
10/22	172,641	176,116	196,862	2.01%	-10.54%
11/22	162,853	166,806	172,025	2.43%	-3.03%
12/22	157,047	162,785	156,824	3.65%	3.80%
01/23					
02/23					
03/23					
04/23					
05/23					
06/23					
	1,014,729	1,044,802	1,086,573	2.96%	-3.84%





UTILITY CUSTOMER SERVICE REPORT

FOR THE MONTH OF DECEMBER 2022

				LAST MONTH	THIS MONTH
REVENUES BILLED					
NUMBER OF ACCOUNTS BILLED				17,118	17,074
ELECTRIC			Energy	$1,712,856.42	
			Demand	$684,155.91	
			PCA	$865,447.25	
			FCA	$0.00	
			Security lgts	$18,342.76	
			Ld mgmt	$0.00	
			Sub Total	$3,280,802.34	
*** LOMAR		NOVEMBER		$274,277.57	
*** MICRON		NOVEMBER		$10,388.33	
TOTAL ELECTRIC					$3,565,468.24
WATER					$946,269.81
SEWER					$734,603.49
UOSA COMPONENT					$604,219.10
Pond overhead, maintenance and indirect					$27,748.33
REFUSE					$283,186.31
STORMWATER					$230,575.68
RETURNED DEPOSITS					($16,225.00)
SUBTOTAL					$6,375,845.96
PENALTIES				LAST MONTH	$58,618.65
TOTAL REVENUE BILLED				$6,388,751.79	$6,434,464.61
REVENUES COLLECTED FOR DECEMBER BILLINGS AND PRIOR					
OVER THE COUNTER		13.47%			$795,430.82
WIRE PAYMENTS		14.55%			$859,091.19
MAIL		9.59%			$566,544.12
A/R BOX		31.45%			$1,857,402.97
E-CHECKS (INVOICE CLOUD)		23.01%			$1,359,035.41
PAYPAL/VENMO		0.27%			$15,833.76
CREDIT CARDS (INVOICE CLOUD)		7.66%		LAST MONTH	$452,332.97
TOTAL REVENUE COLLECTED				$6,494,279.17	$5,905,671.24
OVER/SHORT					$0.00
OPERATION ROUND UP				$241.50	$234.06
MONTHLY NON PAY CUTS	DH	235			
	CUT	1			
	HOLDS	55			

UTILITY ACCOUNTS RECEIVABLES					
AGING	08/31/22	09/30/22	10/31/22	11/30/22	12/30/22
CURRENT DUE (ACTIVE ACCTS)	$3,005,704.13	$4,557,960.02	$3,258,518.93	$3,188,667.51	$3,683,662.51
30 DAYS (ACTIVE ON CUT LIST)	$188,119.98	$286,696.16	$313,989.63	$405,486.22	$542,286.27
60 DAYS (DISCONNECTED ACCOUNTS)	$26,810.35	$29,171.53	$34,076.00	$41,931.22	$47,770.72
90 DAYS (DISCONNECTED WAITING FOR WRITE-OFF)	$16,903.18	$11,398.45	$11,553.37	$10,617.50	$17,146.15
OVER 90 DAYS	$27,211.67	$22,788.46	$24,806.24	$23,582.90	$21,606.70
TOTAL DUE	$3,264,749.31	$4,908,014.62	$3,642,944.17	$3,670,285.35	$4,312,472.35
* WRITE OFFS	$13,714.61	$6,569.11	$8,262.35	$16,856.53	$10,304.36
COLLECTED FROM STATE	$0.00	$0.00	$0.00	$0.00	$0.00
COLLECTED IN HOUSE	($971.03)	($388.20)	($1,982.25)	($529.24)	($984.29)
NET	$12,743.58	$6,180.91	$6,280.10	$16,327.29	$9,320.07

* written off accounts are bad debts removed from the accounts receivable control register but not from the system.

Monthly Outage Report

For the Month of December

Total Outages:	5	SAIDI:	1.063
Total Customers Affected:	1,157	ASAI:	99.998
Total Customer Minutes:	17,691	CAIDI:	15.290
		SAIFI:	0.070

Date	Start Time	Duration (min)	Customers Affected	Customer Minutes	Substation-Feeder	Voltage Type	Cause	Device
12/13/2022	13:25	13	491	6,383	PRINCE WILLIAM-102	Primary	Cause Unknown	Breaker
12/28/2022	08:59	21	4	84	PRINCE WILLIAM-102	Primary	Motor vehicle	Pole
	18:19	98	1	98	PRINCE WILLIAM-103	Secondary	Equipment Failure	Meterbase
12/29/2022	09:53	26	** 648	10,918	PRINCE WILLIAM-105	Primary	Contractor	Cutout
	10:41	16	13	208	PRINCE WILLIAM-105	Primary	Squirrel	Cutout

*** Has Multiple Restore Times.*

--- 2 Momentary Outage(s) Excluded.

Electric System Operating Report – December 2022

Reliability

	SAIDI (minutes)	ASAI (%)
January	11.108	99.9750
February	0.075	100.0000
March	1.592	99.9960
April	0.125	100.0000
May	5.350	99.9880
June	4.578	99.9890
July	3.682	99.9920
August	2.704	99.9940
September	2.369	99.9950
October	16.443	99.9630
November	0.452	99.9999
December	1.063	99.9980
YTD	49.54	99.9908
Target	< 52	99.99

System Average Interruption Duration Index (SAIDI):
Measures the average total sustained interruption duration for the average customer served over a defined period of time. (Sum of Customer Interruption Duration minutes / Total Number of Customers Served)

Average Service Availability Index (ASAI):
Represents the fraction of time (in percentage) that a customer service was available over a defined period of time.

Electric System Operating Report - December 2022

System Data

	VMEA Bill	Actual cost per kWh (¢)
July	$ 3,050,474	7.42
August	$ 2,227,889	7.57
September	$ 2,750,377	8.49
October	$ 2,428,686	8.60 **
October	$ 2,773,737	8.95

**Reflects $75,618 Dominion true-up

September Meter Data

DVP System Peak	22,219	MW (December 24, 8 AM)
City Coincident Peak	72.98	MW (December 24, 8 AM)
City System Peak	74.55	MW (December 26, 8 AM)
System kWh Consumption	30,994,092	kWh
CP/NCP Ratio	95.63 %	(November, verified)
CP/NCP Ratio (12 month rolling avg.)	92.68 %	(November, verified)

Generation - PJM Base Residual Auction

PJM – Called a Capacity 1 event 19:00 – 24:00 on 12/23/2022
PJM – Called a Capacity 1 event 06:00 – 18:21 on 12/24/2022
PJM – Called a Capacity 1 event 06:00 – 06:10 on 12/25/2022

Load Control and Voltage Reduction

Saturday, December 24th — DVP Peak 22,219 MW @ 08:00; VMEA 260.46 MW, Man-59.1 MW

Temperatures at the Peak:

Manassas	7 °F
Richmond	8 °F
Norfolk	12 °F

Generation – Transmission Peak Shaving (in MW)

Date	Peak Hour	Hours Ran	Manassas Generation	DVP Load	Manassas Load	VMEA Load
December 2nd	08:00	1.5	20.09	17,424	54.8	206.9
December 5th	08:00	1.5	19.11	17,587	55.6	212.7
December 14th	08:00	2	15.96	18,122	61.2	221.4
December 21st	08:00	1.5	17.06	18,459	62.4	227.1

Electric CIP	Description	FY23 Funds Available	Project to Date Estimated Cost	Project to Date Actual Cost	Project	Status	Estimated Start Date	Estimated Completion Date
E04 / C3608	Replace Fuse Cabinets	$0	$20,000	$12,054	Confederate Trail & Burnside Road	Requires major outage, need good weather. Switch is ready to install in manhole. Tarek was to check settings - ON HOLD	Spring 2021	Spring 2022
E30 / C3667	UG Cable Replacement	$1,050,104	$300,000	$234,639	Silver Maple Area	Started August 2022	August 2022	April 2023
			$250,000	$248,703	Cannon Ridge	Started Mar. 2022, Conduit install complete, Started cable install 8/2022.	March 2022	Spring 2023
E31 / C3686	New Generation Alternatives	$135,000	$42,000	$0	Public Work Generator - upgrade switchgear	Major outage needed at the PW Facility - late March 2023 time frame	March 2023	March 2023
E32 / C3694	New Fiber Optic Loop	$263,685	$0	$0	Fiber Optic -Prince William to Bunker (PWF)	Need estimate and work order # created On Hold	TBD	TBD
E33 / C3693	OH to UG	$1,050,104	$0	$0	Longstreet Drive	Grant to Portner - in design	FY 2022	June 2024
E34 / C3695	LED Streetlights	$126,978	$700,000	$573,022	LED Streetlights	(Labor will not be charged to CIP account) Skipping historic district. Working on Neighborhood Streets. Additional 420 units received.	Working	June 2025
E35 / C3515	Airport Distribution	$1,315,120		$0	Investigate Airport	P.O. issued to Rgrid to begin study. 90% design, Tony to find answers to remaining concerns/issues.		
NVTA / T042 / C3510	Rt 28 Widening VDOT	$121,681	$70,000	$19,347	Route 28 Widening PH II (Godwin to PA)	Started relocations in late June, 21. Working with road contractor as adjustments are necessary.	Nov 2021	Spring 2023
NVTA T087 / C3511	Quarry Streetscape	-$9,790	$400,000	$409,791	OH to UG Quarry St/Messenger Pl/Main St	Relocation 100% complete. Street lights installed. To finish punch list items (paving, concrete restoration) with project.	May 2022	February 2023

MONTHLY OPERATIONS REPORT
WATER & SEWER DEPARTMENT
January-23

WATER PLANT	DAILY USAGE TREND (MGD)	ACTUAL DAILY AVERAGE (MGD)	MONTH
WATER PUMPED to COM	--------	12.52	Oct-22

WATER DISTRIBUTION	(MGD)	(MGD)	MONTH
MANASSAS	2.79	4.59	Oct-22
MICRON	2.52	2.55	Oct-22
MANASSAS PARK	0.48	0.51	Oct-22
PWCSA	4.58	4.87	Oct-22
TOTAL	10.36	12.52	

WATER STATISTICS	PERMIT LIMIT	ACTUAL	REGULATORY LIMIT
DISINFECTION-BY-PRODUCTS-THM (Trihalomethanes)	<50 ppb	47.06	80 ppb
DISINFECTION-BY-PRODUCTS-HAA (Halogenic Acetic Acids)	< 40 ppb	35.03	60 ppb
TOC REMOVAL (Total Organic Carbon)	> 1.10	1.15	> 1.0
FY23 TURBIDITY EXCEEDANCES*	0	0	0
FY23 VIOLATIONS*	0	0	0

WATER OPERATIONS	GOAL	ACTUAL	
FY23 CRITICAL VALVES OPERATED (24")*	100%	52%	FY23 YTD
FY23 NON-CRITICAL VALVES OPERATED (All Others)*	33%	7%	FY23 YTD
FY23 LOCATIONS FLUSHED*	100%	100%	FY23 YTD
MONTHLY WATER BREAKS	2.5	13	Nov 22
MONTHLY WATER QUALITY COMPLAINTS	0	0	Nov 22
FY23 TRAINING DAYS (Utility Employees)*	108	9.50	FY23 YTD

SEWER OPERATIONS	BUDGET OR GOAL	ACTUAL	
MONTHLY SEWER BLOCKAGES	0	1	Nov 22
FY23 MANHOLES INSPECTED*	1,000	199	FY23 YTD
FY23 TV INSPECTIONS -camera (FEET)*	200,000	41,415	FY23 YTD
FY23 SEWER MAIN REHABILITATED (FEET)*	6,000	0	FY23 YTD
FY23 LINE CLEANING (FEET)*	200,000	82,795	FY23 YTD

SEWER (FLOW TO UOSA)	DAILY USAGE TREND (MDG)	ACTUAL DAILY AVERAGE (MGD)	MONTH
UOSA FLOW	--------	6.22	Oct 22
MANASSAS	2.69	2.74	Oct 22
MICRON	2.30	2.46	Oct 22
PWCSA	19.80	12.06	Oct 22

UOSA FLOW LIMITS		ACTUAL DAILY AVERAGE (MGD)	PERMIT LIMIT
HIGHEST 30 CONSECUTIVE DAYS AVERAGE FLOW THIS MONTH	--------	5.902	
PEAK 30 DAY PERIOD (December 2020)	--------	8.438 (1)	**9.19 (2)**

* FY23 = July 1, 2022 - June 30, 2023

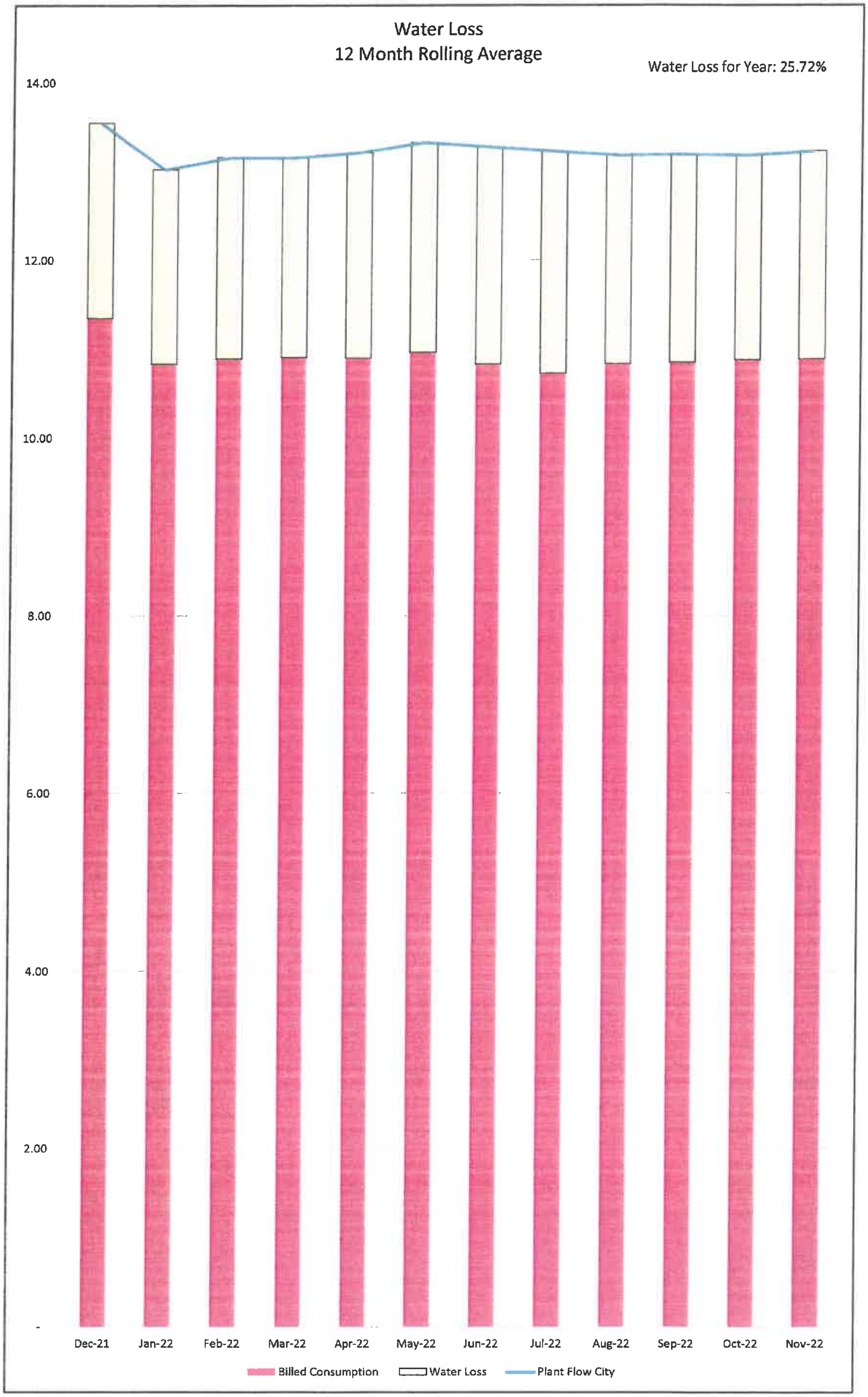
(1) Peak for 30 days
(2) Maximum allowed by UOSA (Limit increased from 8.69 to 9.19 August 2019)

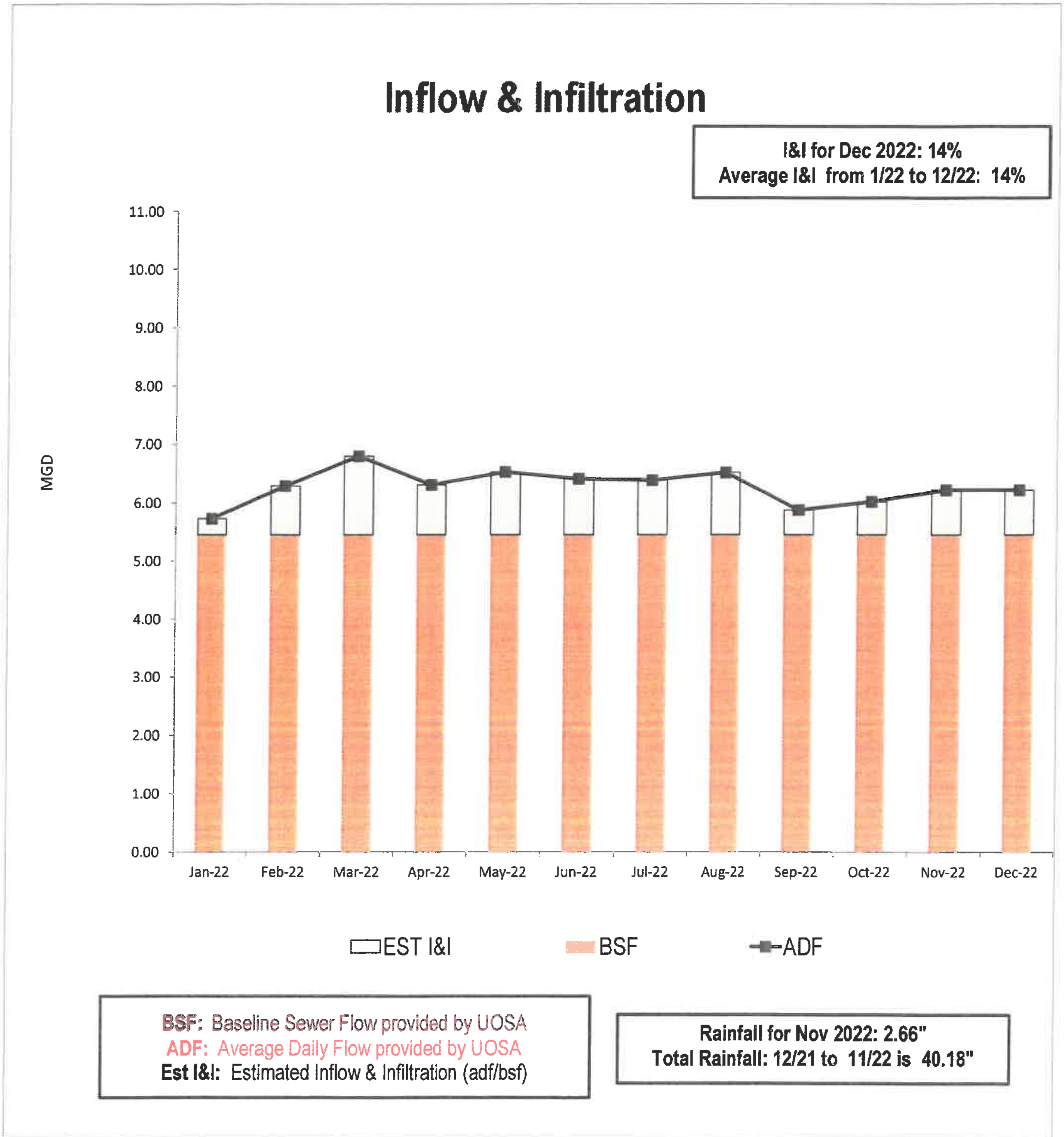
UOSA MONTHLY FLOW REPORT

AVERAGE DAILY FLOW
SUMMARY
for
November 2022

	UOSA Influent mgd	Fairfax County mgd	Prince William County mgd	City of Manassas mgd	City of Manassas Park mgd
LIMIT: (Highest 30 consecutive days average daily flow during the past 48 months)	**54.0000**	**22.0999**	**19.7971**	**9.1893**	**2.9137**
ACTUAL: (Highest 30 consecutive days average daily flow during the past 48 months)	**44.321** **Dec-18**	**16.972** **Dec-18**	**17.062** **Dec-20**	**8.438** **Dec-20**	**2.138** **Dec-18**
Highest 30 consecutive days average daily flow this month	30.841	11.648	12.058	5.902	1.256
Average daily flow this month					
Collection System	30.7713	11.6313	12.0056	5.8975	1.2370
Septage Receiving Facility	0.0693	0.0168	0.0523	0.0001	0.0002
Total average daily flow (mgd)	30.8407	11.6480	12.0579	5.8976	1.2371
Average daily flow past 3 months					
Collection System	30.6210	11.5083	12.2966	5.5490	1.2672
Septage Receiving Facility	0.0767	0.0196	0.0480	0.0001	0.0090
Total average daily flow (mgd)	30.6978	11.5279	12.3446	5.5491	1.2762
Average daily flow past 12 months					
Collection System	33.1250	12.3094	13.2530	6.2173	1.3453
Septage Receiving Facility	0.0739	0.0183	0.0532	0.0002	0.0022
Total average daily flow (mgd)	33.1989	12.3277	13.3062	6.2175	1.3475

Rain data in total inches:	**Month** November-22	**Quarter** September-22 through November-22	**Year** December-21 through November-22
UOSA Plant Site Gage	2.66	9.56	40.18
Dulles Weather Station Gage	2.79	8.31	36.29


Water Loss
12 Month Rolling Average
Water Loss for Year: 25.72%
14.00
12.00
10.00
8.00
6.00
4.00
2.00
-
Dec-21
Jan-22
Feb-22
Mar-22
Apr-22
May-22
Jun-22
Jul-22
Aug-22
Sep-22
Oct-22
Nov-22
Billed Consumption
Water Loss
Plant Flow City



Inflow & Infiltration
I&I for Dec 2022: 14%
Average I&I from 1/22 to 12/22: 14%
MGD
11.00
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan-22
Feb-22
Mar-22
Apr-22
May-22
Jun-22
Jul-22
Aug-22
Sep-22
Oct-22
Nov-22
Dec-22
EST I&I
BSF
ADF
BSF: Baseline Sewer Flow provided by UOSA
ADF: Average Daily Flow provided by UOSA
Est I&I: Estimated Inflow & Infiltration (adf/bsf)
Rainfall for Nov 2022: 2.66"
Total Rainfall: 12/21 to 11/22 is 40.18"

WATER & SEWER DEPARTMENT CAPITAL IMPROVEMENT PROJECTS

CIP	Project Name	Year	Design & Construction Status	FY 2023 Funds Available	Project Estimate	Project to Date Actual Costs	Expected Start Date	Expected Completion Date
W042	24" Transmission Main Replacement (C3683)	2007		16,729,780	28,800,000	14,392,552		6/23
	Phase IV -Vint Hill Rd along Fitzgerald Way to Rt 28		Plan and Bid Documents are 100% meeting with the EPA on 9/12 to discuss grant funding				3/23	11/24
	Phase V -Fox Chase Dr along Vint Hill Rd to Sudley Manor Dr		90% design drawings received; alignment & easements identified. easement acquisition complete. Dividing project and finalizing documents to meet federal requirements				1/23	6/24
	Phase VI-A -Residency Rd along Rt 28 to Godwin Dr		Bid awarded to General Excavation Inc.; Contractor mobilized and will be scheduling the start of the waterline work in the next few weeks.Final Tie in being completed 12/22				7/21	12/22
W047	Finished Water Capacity Increase (C3684)	2009	100% Design; Send out to bid in Janurary	6,404,228	3,000,000	973,410	1/23	3/24
W054	Recycle Decant to the WTP (C3678)	2012		311,797		-		
W050	Main Replacement Looping (C3663)			1,093,246		479,031		
	Airport Infrastructure	2020	In design			17,629	3/21	TBD
	Bragg Lane	2020	Under constuction pipe shoud be completed 1/23			118,298	11/22	3/23
	Longstreet Drive	2020	In design at 90%			45,534	1/21	TBD
W065	Clear Well Addition & Roof Replacement (C3696)	2011	Tanks is currently under roof, finish coats to be applied this month	1,823,564		3,247,754	12/20	5/23
W070	Water Plant Improvements (C3602)	2018	Recently replaced actuators and 6" waste valves valves on filters 9-12. replaced County and City actuators at pump house. Completed brick enclosures at loading dock and maintenance shop. Began seailing and painting interio block walls in conventional filter area. completed replacement of floculator paddlles and drives for 3 and 4	1,020,206		1,597,039	1/18	Continuing
T030	NVTA_Dean Dr Extended -Water (C3697)	2017	36" waterline in process expecting tie in January 2023	623,422		656,578		1/23
W068	Interconnecting Meter Vaults (C3601)	2018		3,733,554		-		
S000	18" Parallel Force Main (C3506)	2019		250,000		-	TBD	TBD
S016	Upper Flat Branch Interceptor Replacement (C3669)	2010		1,934,483		808,411		
S021	Ellicott Ln Sewer Main Replacment (C3501)	2019	Design 100% Bid Documents being reviewed to release	547,385		37,615	1/23	4/23
T030	NVTA_Dean Dr Extended -Sewer (C3699)	2018	Completed and tested	2,629		48,371		
S023	Sewer Main Replacement (C3514)	2018	In design	1,059,420		73,580	TBD	TBD
S026	Airport Infrastructure Improvements (C3524)	2022		3,800,000		-		
S024	Sewer Capacity Expansion (C3526)	2022		835,590		64,410		

CITY OF MANASSAS
UTILITIES DEPARTMENT

Purchase Orders Approved – December 2022

Project	Company	Amount
Premium Support Plan – Technical Support for Modicon 240 PLCs	Graybar Electric	$10,020
SAR Satellite Imagery Analysis	Utilis Inc	$16,000

UTILITY COMMISSION
AGENDA STATEMENT

MEETING DATE:	January 12, 2023
AGENDA ITEM TITLE:	Sanitary Sewer infrastructure ownership and maintenance on UOSA lines at 8500 Public Works Drive
DATE THIS ITEM WAS LAST CONSIDERED BY UTILITY COMMISSION:	N/A
SUMMARY OF ISSUE/ TOPIC:	Utility Commissions approval to submit formal request to UOSA for change of ownership and maintenance responsibilities for sewer mains and manholes located on the property of 8500 public works drive. Ownership will be needed to connect the new Oil Water Separator located on City property at public Works
DEPARTMENT/DIVISION:	Utilities/Water & Sewer
RECOMMENDATION:	
STAFF RECOMMENDATION:	**__x__ APPROVE ____ DISAPPROVE ____ SEE COMMENTS**
COMMENTS:	
DISCUSSION (IF NECESSARY):	UOSA is requesting approval from the Utility commission before formal request is submitted by staff.
BUDGET/FISCAL IMPACT:	N/A
CONTACT PERSON:	Mike Nicholson, Assistant Director of Water and Sewer, 703-257-8386

If Commission members have questions, you are urged to call the staff person who prepared this agenda statement prior to meeting.

UTILITY COMMISSION
AGENDA STATEMENT

MEETING DATE:	January 12, 2023
AGENDA ITEM TITLE:	Clearwell Presentation From 2022 Water Jam Conference
TIME ESTIMATE:	15 minutes
DATE THIS ITEM WAS LAST CONSIDERED BY UTILITY COMMISSION:	
SUMMARY OF ISSUE/ TOPIC:	Presentation on Water and Sewer department's Clear well project that was recently presented at Water Jam
DEPARTMENT/DIVISION:	Utilities – Water & Sewer
RECOMMENDATION:	For Information Only
STAFF RECOMMENDATION:	____ **APPROVE** ____ **DISAPPROVE** ____ **SEE COMMENTS**
COMMENTS:	None
DISCUSSION (IF NECESSARY):	A PowerPoint presentation will be provided at the meeting.
BUDGET/FISCAL IMPACT:	None
CONTACT PERSON:	Mike Nicholson., Assistant Director, Water & Sewer (703) 257-8386

If Commission members have questions, you are urged to call the staff person who prepared this agenda statement prior to meeting.