



**Public Works and Utilities  
Monthly Report  
August 2022**

Please accept this as the monthly report for the Public Works and Utilities Departments.

**Public Works:**

- Town crews continued to provide maintenance to the roads, grounds, and facilities in the Town. To maintain the safety and an appealing appearance for our citizens and visitors.
- Number of burials performed.      2

**Public Utilities:**

- 4 Customers concerns were responded to/resolved.
- 0 New water service lines installed.      0 Service line repaired.
- 1 Main line repaired.
- 14 Fire hydrants flushed.      0 Repaired
- 280 Miss Utility Locate tickets.
- 2 Sanitary sewer lines flushed.      Total of 350 Feet.
- 1 Videoed sewer lines.      Total of 800 Feet.
- 0 Sanitary sewer lines Installed.      1 Repaired.
- 0 Sewer connections issued.
- 0 Sewer connections installed. (Primarily new subdivisions, installed by contractors).

**Meter Dept:**

- 0 Cross connections inspected.      0 Irrigation inspected.
- 0 Water connections inspected.      1 Water connections issued.
- 0 Meter installed. 5 Meters replaced. 1 Meter rebuilt 17 Check for leaks.
- 5080 Meters read.      6 Reread.      49 Read & transfer.
- 12 Water cut-ons/offers.
- 41 Meter registers replaced.

### Engineering & Project Status:

#### Site Plans/Permits reviewed:

- Amazon Data Center
- Country Chevrolet
- Walmart Pick-up Modification
- Piedmont Urgent Care
- Farrish Properties, Waterloo Junction-ZMA2022-1

#### Project Review Update:

- VDOT Broadview Avenue Improvements: Staff team continues to coordinate with VDOT and Dominion Power for the Street light improvements, to include the conversion of the 33 existing light heads to LED lights and 16 new poles. Dominion provided a budget estimate of \$150,000 for the new poles and \$5,000 for the light-head conversions. VDOT continues in the process of Right of Way acquisition from property owners where additional ROW or easements for construction are needed for the proposed improvements.
- Inflow and Infiltration Reduction into the Sanitary Sewer System: We have asked our Rehabilitation Contractor, Tri-State, for an update on their proposal to continue work on the rehabilitation services. The future plan will be to initiate a new Flow Monitoring program to better focus on priority areas for sewer rehabilitation. With the success that our I&I reduction program has netted over the last two years, the peak response of flows at the WWTP has been dampened. The plan is to start up again in mid-2022 to further reduce I&I. The table below shows the flow history at the WWTP since 2015 through last year.

Year	Rainfall (in.)	Ave Flow (MGD)	High Peak Flow (MGD)	Number of Times over 6.0	Ave Flow/ Inch Rain
2015	41.80	1.86	6.10	2.00	44398
2016	37.30	1.73	6.00	3.00	46403
2017	34.09	1.84	6.00	3.00	53975
2018	77.10	2.17	6.00	6.00	28124
2019	58.90	2.08	6.00	4.00	35257
2020	61.60	1.88	6.00	4.00	30519
2021	45.55	1.72	6.00	2.00	37688
2022*	33.2	1.7	5.50	1.00	NA
* Year to date					

- Garrett Street Stormwater Pond Retrofit: The project was successfully bid and award was made to the low bidder. Construction should start in September. The selected contractor is KBS Earthworks, and the bid price was \$132,655.02.
- 5<sup>th</sup> Street Parking Lot BioSwale Project: The PO has been issued to Bright Construction Group to construct this project. The Preconstruction meeting was held on Sept. 7<sup>th</sup>. We

anticipate construction starting sometime the week of Sept. 19<sup>th</sup>, and being completed before mid-October.

- The Stream Restoration Project from the Dog Park to Washington Street: The Environmental Consultant, RES, completed the assessment of the stream to determine if it is a good candidate for a Stream Restoration Project. They have determined that it is a strong candidate. The next step is to work with the Culpeper Farmer's Cooperative, to get a Memo of Understanding for the project to support the granting of an easement across their property. At the same time, the Stormwater Staff will submit an application to the Department of Environmental Quality for a SLAF grant for the project. This will follow the same process as the Hampton Inn project and will be a multiyear prospective project.
- Automated Water Filling Station, Corral Farms: The PO has been issued to the Contractor, DeBorn Construction. The Pre-Construction meeting was held on Sept. 21<sup>st</sup> at 10:00. VDOT entrance permit has been issued. The County is currently reviewing Land Disturbance Permit Agreement.
- Timber Fence Trail, Segment 2: The PO was recently issued for the completion of the final design of the trail alignment and the easement from the Fauquier County School Board. These items are well underway and should be finished by the end of this month. A meeting has been scheduled with the School Board Building Committee on Sept. 22<sup>nd</sup>, when we will reintroduce the easement alignment and needs.
- WWTP: WWTP Staff is planning to re-bid the improvements to the Gravity Sludge Thickener that was put off due to insufficient funds. The UV Disinfection light system is installed and functioning well. Secondary Clarifier #1 continues to operate, and the contractor is awaiting delivery of the repair equipment, which is anticipated after the first of the year. Rainfall in August totaled 2.00 inches and average flows at the WWTP were 1.44 MGD for the month, a decrease from last month.
- Water/Sewer Capacity Analysis Update: The PO for this has been issued, and Whitman Requardt & Associates is to begin this update process.

## Storm Water Management:

### Outreach:

- -

### Applications/Permitting/Inspections:

- x64 ESC & SWM inspections completed (including drainage issues & outfall inspections).
- x7 SPD under review (ESC & SWM).
- x7 LDP under review (ESC & SWM).
- x2 SUP under review (ESC & SWM).
- x1 LDP approved (ESC & SWM).
- x1 Final CO.

### Operations:

- Construction General Permit (CGP) August Monthly Report submitted to DEQ.
- Agreement in Lieu/LDP/CGP approved: 620 Evans Dr. SFD.
- Agreement in Lieu/LDP/CGP in progress (missing information) or under review: Warrenton Crossing, Strickland Brothers Oil Change, 105 W Shirley Ave, Piedmont Urgent Care, 5th St Parking Lot Bio Swale, Garrett Street Facility, North Rock Lot C.
- SDP / Plat / Dees in progress (missing information) or under review: Piedmont Urgent Care, Strickland Brothers Oil Change, Harris Teeter Service Station, Country Chevrolet 11 E Lee Hwy, Retail Auto Parts, North Hill - Lot C.
- SUP under review: Waterloo Junction / Farrish Properties, Warrenton Village Mixed-Use Center.
- SDP / Plat / Dees approved: Subdivision- 50 Oak Street.
- Continued preparing Hampton Inn Memo of Understanding.
- Continued answering emails from clarification needed to citizens regarding the SW Utility Fee bill.
- Elaborate necessary configuration for land disturbance applications on OpenGov with Community Development.
- Continued answering emails from clarification needed to citizens regarding the Annual BMP / Stormwater Annual Inspections.
- Continued working on the MS4 Annual Report (DEQ) to submit all the documentation on October 1, 2022.

### Professional Development:

- -

**Wastewater Treatment Plant:**

**Total water pumped during      August 2022**

Well No. 3 \_\_\_\_\_ **376,275** \_\_\_\_\_ Gallons

Well No. 5 \_\_\_\_\_ **0** \_\_\_\_\_ Gallons

Well No. 6 \_\_\_\_\_ **460,189** \_\_\_\_\_ Gallons

Filter Plant \_\_\_\_\_ **36,303,000** \_\_\_\_\_ Gallons

**Total pumped (All Sources):** \_\_\_\_\_ **37,139,464** \_\_\_\_\_ Gallons

**Average gallons per day:** \_\_\_\_\_ **1,198,047** \_\_\_\_\_

**Total pumped during the same month last year:** \_\_\_\_\_ **36,224,104** \_\_\_\_\_ Gallons

**Average gallons per day:** \_\_\_\_\_ **1,168,519** \_\_\_\_\_

**Total flow through the sewage plant:** \_\_\_\_\_ **44,620,000** \_\_\_\_\_ Gallons

**Average gallons per day:** \_\_\_\_\_ **1,439,355** \_\_\_\_\_

**Total flow during the same month last year:** \_\_\_\_\_ **45,060,000** \_\_\_\_\_ Gallons

**Average gallons per day:** \_\_\_\_\_ **1,453,548** \_\_\_\_\_ Gallons

**Total rainfall:** \_\_\_\_\_ **2** \_\_\_\_\_ Inches

**Warrenton Reservoir overflow elevation:** \_\_\_\_\_ **445.3** \_\_\_\_\_ Feet

**Warrenton Reservoir current elevation:** \_\_\_\_\_ **444.0** \_\_\_\_\_ Feet

# Refuse & Recycling Report for:

August 2022

BLUE BAG REFUSE			HOUSE DEBRIS				CLEAN UP				CHIPPED BRUSH		COLLECTED IN BLUE BAGS			BLUE BAG TOTALS		TONS LANDFILL RECYCLE		TONS LANDFILL RECYCLE %		
DATE	REFUSE	REFUSE	TIRES	FREON	METAL	BRUSH	LEAVES	CARD BOARD	NEWS PAPER	OFFICE PAPER	GLASS	ALUMIN.	CANS	STEEL	PLASTIC	TOTALS	LANDFILL	RECYCLE	TONS	LANDFILL	RECYCLE	%
Mon. 1	23.39									0.03							23.39	0.00	23.39			0%
Tues. 2	21.62																21.62	0.03	21.65			0%
Wed. 3	2.46	0.12						3.67	0.12		1.27	0.09	0.14	0.10		1.72	2.58	5.39	7.97			68%
Thurs. 4	13.95					2.23											13.95	2.23	16.18			14%
Fri. 5	13.94																13.94	0.00	13.94			0%
Mon. 8	22.49																22.49	0.00	22.49			0%
Tues. 9	21.67																21.67	0.00	21.67			0%
Wed. 10	0.25	0.12						3.69	0.32		1.25	0.08	0.14	0.10		1.69	0.37	5.58	5.95			94%
Thurs. 11	12.86																12.86	0.00	12.86			0%
Fri. 12	14.93																14.93	0.00	14.93			0%
Mon. 15	23.11																23.11	0.00	23.11			0%
Tues. 16	21.16																21.16	0.00	21.16			0%
Wed. 17	1.81	0.11						4.16	0.31		1.19	0.08	0.13	0.10		1.61	1.92	5.97	7.89			76%
Thurs. 18	14.18					3.66											14.18	3.66	17.84			21%
Fri. 19	15.34					5.56											15.34	5.56	20.90			27%
Mon. 22	20.40																20.40	0.00	20.40			0%
Tues. 23	20.27									0.03							20.27	0.03	20.30			0%
Wed. 24	1.55	0.12						3.21	0.13		1.25	0.08	0.14	0.10		1.69	1.67	4.91	6.58			75%
Thurs. 25	13.86					3.31											13.86	3.31	17.17			19%
Fri. 26	13.92																13.92	0.00	13.92			0%
Mon. 29	21.52																21.52	0.00	21.52			0%
Tues. 30	21.93																21.93	0.00	21.93			0%
Wed. 31	0.87	0.09			0.06			3.18	0.23		0.95	0.06	0.10	0.08		1.28	0.96	4.66	5.62			83%
TOTAL	337.48	0.56	0.00	0.00	0.06	14.76	0.00	17.91	1.11	0.06	5.91	0.40	0.64	0.48		7.99	338.04	41.33	379.37			11%