



CITY OF HENDERSONVILLE WATER SEWER ADVISORY COUNCIL

Operations Center - Assembly Room | 305 Williams St. | Hendersonville NC 28792
Monday, April 25, 2022 – 6:00 PM

AGENDA

1. **CALL TO ORDER**

2. **PUBLIC COMMENT**

3. **APPROVAL OF MINUTES**

A. October 25, 2021 Minutes – *Angela L. Reece, City Clerk*

4. **OLD BUSINESS**

A. Halfway Tree Mobile Home Park Sewer Project – *Brent Detwiler, City Engineer*

5. **NEW BUSINESS**

A. Budget Presentation – *Adam Murr, Budget Manager*

B. Capital Projects Update - *Various Staff*

C. Distribution of Annual Report – *Adam Murr, Budget Manager*

D. Grant and Collaboration Opportunities – *Bent Detwiler, City Engineer*

6. **ADJOURNMENT**

The City of Hendersonville is committed to providing accessible facilities, programs and services for all people in compliance with the Americans with Disabilities Act (ADA). Should you need assistance or an accommodation for this meeting please contact the City Clerk no later than 24 hours prior to the meeting at 697-3005.



CITY OF HENDERSONVILLE WATER SEWER ADVISORY COUNCIL

Operations Center - Assembly Room | 305 Williams St. | Hendersonville NC 28792
Monday, October 25, 2021 – 6:00 PM

MINUTES

- Present: County Commissioner & Chairman Daniel Andreotta, City of Hendersonville Council Member & Vice Chair Jeff Miller, Village of Flat Rock Council Member David Dethero, Henderson County Water/Sewer Customer Representative Andrew Riddle, City of Saluda Council Member Stan Walker, Town of Fletcher Council Member Sheila Franklin, Town of Laurel Park Council Member Paul Hansen, City of Hendersonville Water/Sewer Customer Representative Chuck McGrady, Alternate- Mills River Town Manager Daniel Cobb
- Absent: Town of Mills River Council Member Roger Snyder, Chamber of Commerce Business Representative Wade Anderson,
- Vacant Seat: Partnership for Economic Development Representative
- Staff Present: City Manager John F. Connet, Assistant City Manager Brian Pahle, City Clerk Angela Reece, Communications Manager Allison Justus, Budget Manager Adam Murr, Brent Detwiler, City Engineer, Lee Smith, Utilities Director, Adam Steurer, Assistant to Utilities Director, Drew Finley, and others.
- Others Present: Laurel Park Town Manager Chris Todd, City of Saluda City Manager Steve Orr, County Engineer Marcus Jones, Larry Rogers PEP

1. CALL TO ORDER

Chairman Daniel Andreotta called the meeting to order at 6:00 p.m. and welcomed those in attendance.

2. PUBLIC COMMENT

There were no comments.

3. APPROVAL OF AGENDA

Chuck McGrady moved to approve the agenda as presented. A unanimous vote of the Council Members followed. Motion carried.

4. APPROVAL OF MINUTES

A. July 26, 2021- Minutes – Angela Reece, City Clerk

David Dethero moved to approve the minutes of July 26, 2021, as presented. A unanimous vote of the Council Members followed. Motion carried.

5. OLD BUSINESS - NONE

6. NEW BUSINESS

A. Adoption of Annual Schedule of Meetings 2022– *John Connet, City Manager*

Council Member Chuck McGrady moved to adopt the annual schedule of meetings for 2022 as presented A unanimous vote of the Council Members followed. Motion carried.

B. Presentation of Wastewater Treatment Plant Master Plan - *McKim and Creed Consulting Engineers*

Zach Trammel, Project Manager of McKim & Creed presented the Wastewater Treatment Master Plan to the Council. Mr. Trammel outlined the need for master planning and discussed capacity limits. Mr. Trammel discussed ultraviolet disinfection replacement and said the efficiencies of new equipment will offset the project and energy costs. Mr. Trammel stated biosolids treatment costs have doubled and said landfills can impose additional rate increases or refuse disposal at any time and said the unexpected increased in tipping fees was due to management changes in a landfill in another county. Chuck McGrady inquired if the proposed costs are adjusted for inflation and Mr. Trammel stated they have included a 3% inflation rate. Mr. Trammel also clarified failing septic systems were considered.

City Manager John Connet discussed the next steps for presenting to City Council and incorporation into the CIP. Manager Connet stated the city will conduct rate reviews and analysis as part of ongoing revenue bonds and said good communication between the city and county is critical to the project success. Manager Connet also recalled a prior rate study where the decision was made to increase rates to pay for capital projects and said system development fees are another option given the amount of growth and development in the area as this will spread costs out, so all the burden is not on the rate payers who already live here. Chairman Daniel Andreotta discussed the County's position on extension of water and sewer to the Ednyville community and said they want the community to have as much input as possible.

7. STAKEHOLDER COMMENTS

Council Members provided updates to the group and each other.

City Manager John Connet expressed thanks and appreciation to Council Member Jeff Miller for his leadership in issues in the last few years. Manager Connet stated issues are going to require tough decisions and recommendations due to the growth the area and region is seeing. Manager Connet reminded everyone that infrastructure is critical.

8. ADJOURNMENT

The meeting was adjourned at 7:20 p.m. upon assent of Council Members present.

ATTEST:

Angela L. Reece, City Clerk

Jerry A. Smith Jr., J.D., City Council Member & Vice Chairman



CITY OF HENDERSONVILLE AGENDA ITEM SUMMARY

SUBMITTER: John Connet **MEETING DATE:** 4/19/2022
AGENDA SECTION: OLD BUSINESS **DEPARTMENT:** EnterTextHere
TITLE OF ITEM: Halfway Tree Mobile Home Park Sewer Project – *Brent Detwiler, City Engineer*

SUGGESTED MOTION(S):

NA

SUMMARY:

City Engineer Brent Detwiler will provide a final update on the Halfway Tree Mobile Home Park Sewer Project.

BUDGET IMPACT: \$

Is this expenditure approved in the current fiscal year budget? EnterTextHere

If no, describe how it will be funded. EnterTextHere

ATTACHMENTS:

None



CITY OF HENDERSONVILLE AGENDA ITEM SUMMARY

SUBMITTER: John Connet **MEETING DATE:** April 25, 2022

AGENDA SECTION: PRESENTATION **DEPARTMENT:** Administration

TITLE OF ITEM: Budget Presentation – *Adam Murr, Budget Manager*

SUGGESTED MOTION(S):

NA

SUMMARY:

Budget Manager Adam Murr will present the draft water and sewer budget for FY 22-23.

BUDGET IMPACT: \$

Is this expenditure approved in the current fiscal year budget? EnterTextHere

If no, describe how it will be funded. EnterTextHere

ATTACHMENTS:

Budget Memorandum



CITY OF HENDERSONVILLE AGENDA ITEM SUMMARY

SUBMITTER: John Connet **MEETING DATE:** April 25, 2022
AGENDA SECTION: NEW BUSINESS **DEPARTMENT:** Administration
TITLE OF ITEM: Capital Projects Update - *Various Staff*

SUGGESTED MOTION(S):

SUMMARY:

City staff will provide updates on current and future water and sewer capital projects.

BUDGET IMPACT: \$ NA

Is this expenditure approved in the current fiscal year budget?

If no, describe how it will be funded.

ATTACHMENTS:

None



CITY OF HENDERSONVILLE AGENDA ITEM SUMMARY

SUBMITTER: John Connet **MEETING DATE:** 4/25/2022
AGENDA SECTION: NEW BUSINESS **DEPARTMENT:** Administration
TITLE OF ITEM: Distribution of Annual Report – *Adam Murr, Budget Manager*

SUGGESTED MOTION(S):

NA

SUMMARY:

Adam Murr will distribute the Water and Sewer Annual Report

BUDGET IMPACT: \$

Is this expenditure approved in the current fiscal year budget?

If no, describe how it will be funded.

ATTACHMENTS:

FY 20-21 Annual Report

ANNUAL REPORT 2020-2021



HENDERSONVILLE WATER & SEWER



MISSION

Operate a great utility for our customers.

VISION

We envision a Hendersonville region with trusted, safe, high-quality, affordable utility service and a system that is responsive to the demands of its customers and regional growth.

VALUES

These values, which emerged from the utility's recent strategic planning efforts, guide our decision-making and ground us in what is most important to us and our customers:

- Great Customer Service
- Accountability
- Quality and the Environment
- Protecting Infrastructure from Hazards
- Partnerships and Teamwork
- Planning for the Future
- Adaptability
- Great Place to Work



LETTER FROM THE MAYOR

Item C.

To Our Community,

We are proud to be part of your life in the most vital and meaningful ways through our daily delivery of essential water and wastewater services. We transport and treat wastewater in an environmentally responsible manner, and we provide affordable access to high-quality drinking water so that we succeed as a utility, and you succeed as a community partner.

We continually focus on transparency, fiscal responsibility, building partnerships, encouraging economic development, and protecting our environment as our area continues to grow. Regular collaboration and input from a cross-section of local governing boards, industry and business representatives, and utility customers in the community ensures that we are responsive to the needs and concerns of our ratepayers.

Over the past year, the City has completed its compliance efforts related to the American Water Infrastructure Act of 2018, which included the development of a risk and resiliency assessment and an emergency response plan for the City's water and sewer utilities. Planning and engineering design efforts have begun for water and sewer extensions that will serve Jabil Inc. at a new 41-acre industrial park on Garrison Lane in Henderson County. Hendersonville Water & Sewer also finalized its utility extension and assessment policies and continued work on other pressure-improving projects like the Hebron pressure zone, Etowah and Northside water system improvements.

As your utility, we remain vigilant and prepared for what lies ahead. We are committed to providing high quality, efficient service and working proactively with regulatory agencies, developers, and our customers to craft solutions that work for all.



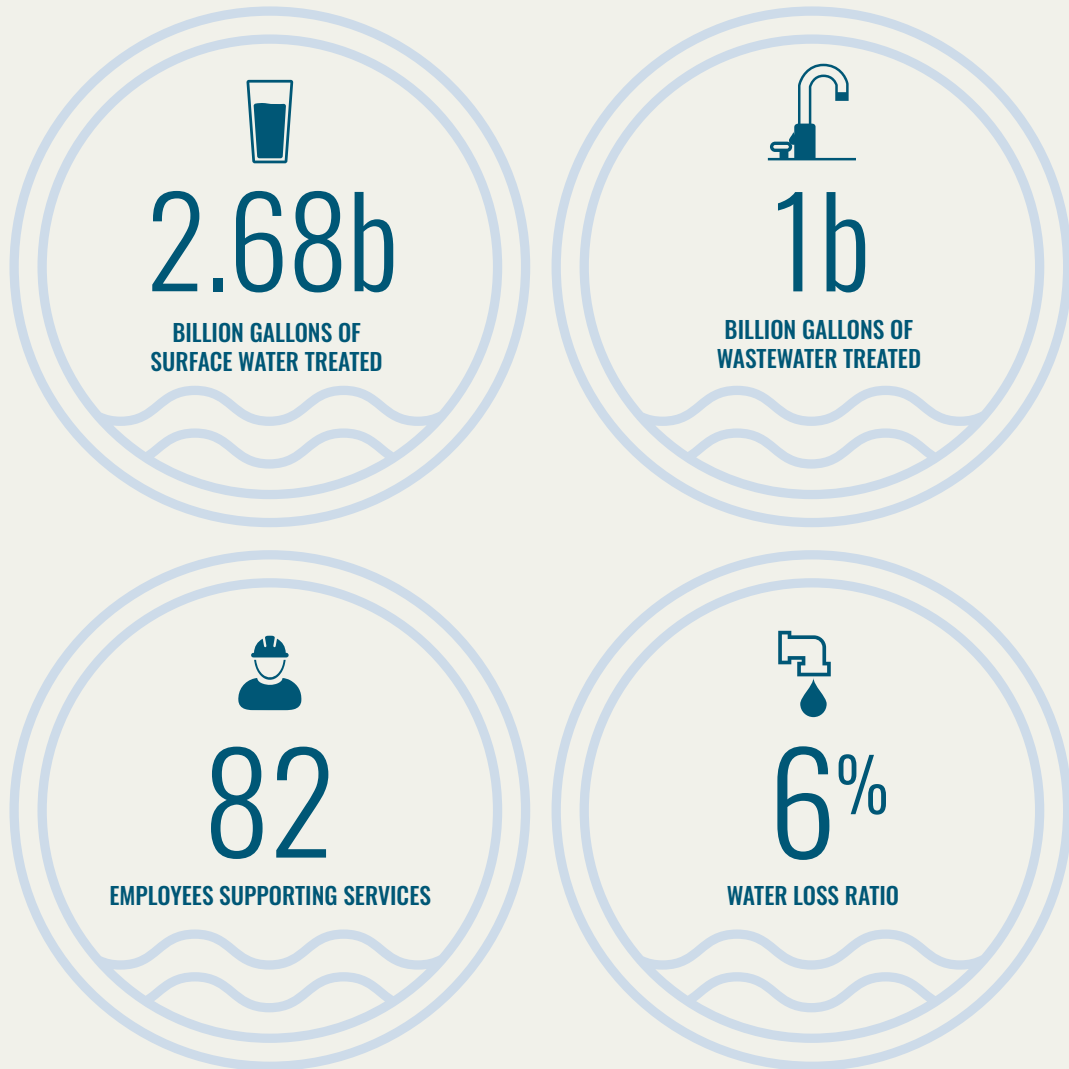
We hope you enjoy reviewing some of the accomplishments and opportunities contained in this year's annual report. On behalf of the Hendersonville City Council, Water and Sewer Advisory Council, and Hendersonville Water & Sewer, it is our pleasure to serve you.

Sincerely,
Barbara Volk, Mayor, City of Hendersonville

A handwritten signature in black ink that reads "Barbara L. Volk". The script is fluid and cursive, with a large initial 'B' and 'V'.

PERFORMANCE HIGHLIGHTS

Item C.



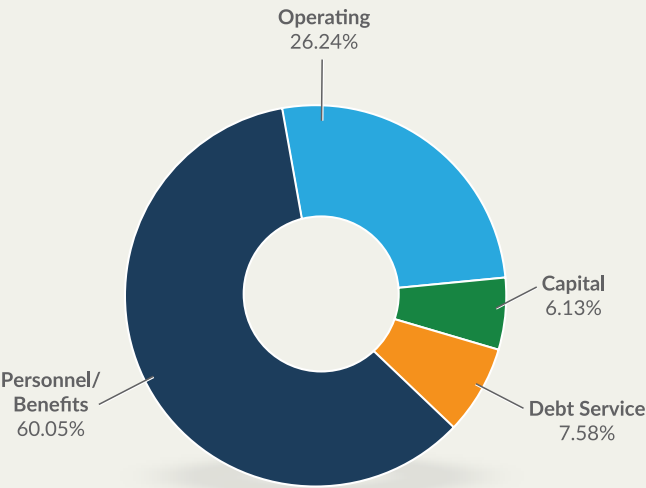
Basic performance measures for the City's Water and Sewer Department are included on page 32-35 of the Annual Budget at <https://www.hendersonvillenc.gov/budget>

WHAT YOUR RATES FUND

Item C.

The City’s Water and Sewer Fund collected **\$17.9 million** In FY20-21. The majority of revenues came from charges for water and wastewater service. The City expended these funds according to the pie chart provided.

The City is budgeted in FY21-22 to collect **\$20.1 million**. The increase in budgeted revenues is due to rate changes recommended by utility rate experts and reviewed by the Water and Sewer Advisory Council in partnership with the Hendersonville City Council. Earned revenues support the water and wastewater system’s daily operations and capital projects. In future years, the utility anticipates higher levels of debt service payments on major capital improvement projects.



INFRASTRUCTURE STATS

The tables below summarize key Water and Sewer Department Statistics from fiscal year (FY) 2020 through 2021.

FISCAL YEAR	2019	2020	2021
CALLS FOR SERVICE	12,305	8,199	12,015
METER DROP IN STUB OUT	102	58	151

ANNUAL WATER PRODUCTION	2,556,015,000	2,562,992,000	2,680,552,000
AVERAGE DAILY PRODUCTION (MGD)	7.022	6.942	7.344
NEW WATER TAPS	174	150	232
WATER MAIN LEAKS/BREAKS REPAIRED	107	77	82
WATER LOSS,%		12.29%	6%

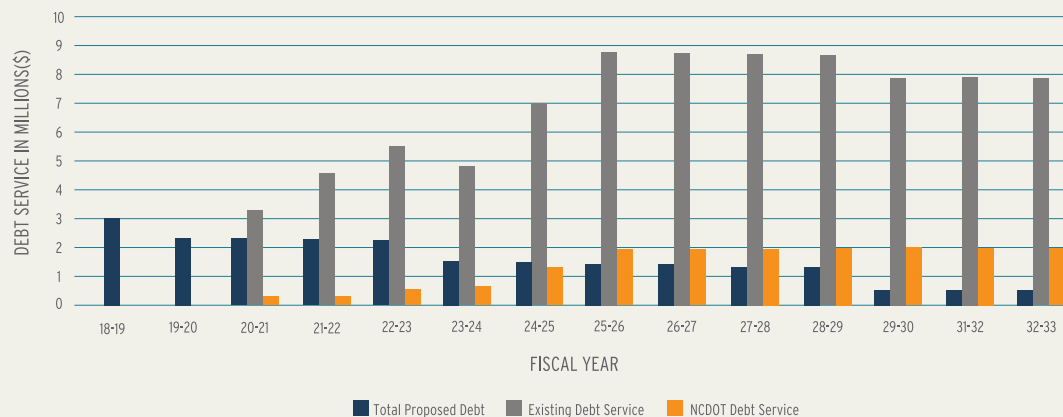
ANNUAL WASTEWATER/SEWER TREATMENT	1,147,408,000	964,990,000	1,002,834,000
NEW WATER AND SEWER CONNECTIONS	54	43	43
SEWER LINES CLEARED (ft)	98,162	90,462	123,783
SEWER INFLOW/INFILTRATION	34%	30%	

RATE CHANGES

Item C.

The City has collaborated with private financial firms specializing in municipal utility rates to identify best practices. The City must also adhere to a bond covenant, requiring certain financial criteria be met to finance major capital projects. We continually advertise and seek feedback on our rates from various advisory councils, committees, and members of the community. The City's 10-year capital improvement plan (CIP) contains **\$112.7 million** of debt-funded projects. Rate recommendations are based on the City's ability to maintain favorable financial status via bond covenant requirements, and other ratios, including debt service coverage, operating, and available fund balance.

DEBT SERVICE PLAN EXISTING VS. NEW

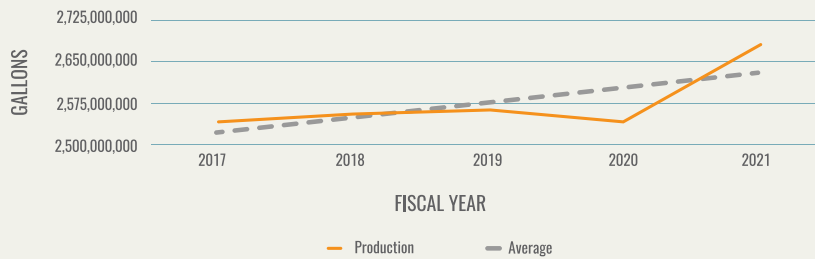
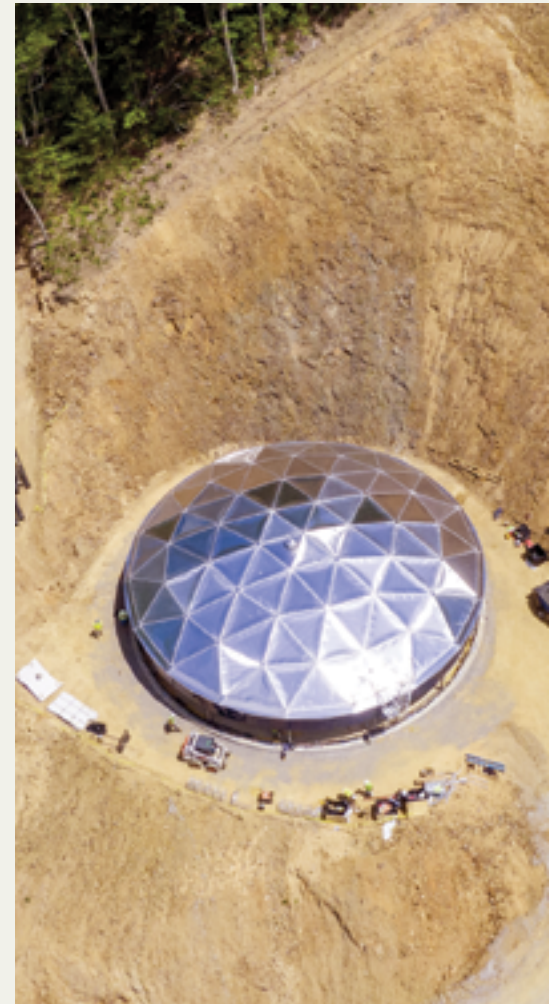
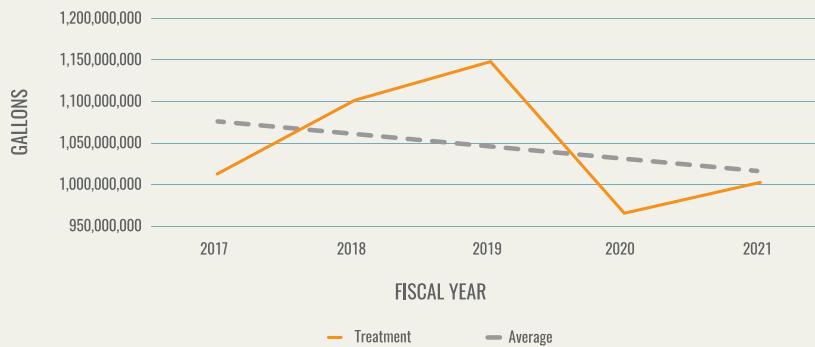


Additional information on financial ratios and requirements can be found on page 36 of the City's FY20-21 Adopted Budget at: <https://www.hendersonvillenc.gov/budget>

PROJECTS COMPLETED IN FY21



1. AWIA RRA and ERP
2. Utility extension and assessment policies finalized
3. Sewershed 6 Sanitary Sewer Evaluation Survey (SSES)
4. WWTF Septage Receiving Station – Online 8/10/2020

ANNUAL WATER PRODUCTION, GAL.**ANNUAL SEWER TREATMENT, GAL.**

PROJECTS CONTINUED/BEGAN IN FY21

1. Jabil/Garrison Ln. Water and Sewer Project
2. French Broad River Intake Pump Station
3. Mud Creek Sewer Interceptor
4. Clear Creek Sewer Interceptor
5. Laurel Park Water System Transfer and Meter Upgrade
6. WWTP Master Plan
7. WWTP UV Disinfection Project
8. Hebron Pressure Zone Improvements
9. Northside Water System Improvements
10. Etowah Water System Improvements
11. NCDOT I-26 Water and Sewer Improvements



French Broad River Intake Pump Station

The proposed French Broad River intake and pumping station is intended as a redundant source of non-potable water to improve the resiliency of the Water Treatment Facility general operations. The intake and pumping station is also designed for future expansion to serve future water demands within the City's water service area. The new water source associated with this project will be utilized as needed for maintenance as well as interchangeably with existing raw water sources during normal operations. The City will have the flexibility to operate one or all of its raw water sources simultaneously as required to adjust to changing conditions and treatment needs.



WWTf Ultraviolet Disinfection Improvements

The Ultraviolet (UV) Disinfection Improvements project consists of the replacement of aging UV disinfection equipment nearing the end of its useful life at the City's Wastewater Treatment Facility (WWTf). UV disinfection is the final stage of the treatment process where wastewater is disinfected before being discharged into Mud Creek. The project will consist of an additional concrete disinfection channel and new UV equipment to provide redundancy and additional capacity within this stage of the treatment process. In addition, the newer UV equipment is much more energy-efficient, saving the City an estimated \$70,000 per year through reduced electrical costs at the WWTf.



Clear Creek Interceptor Replacement

The Clear Creek Interceptor Replacement consists of the replacement of approximately 3,300 linear feet of undersized 18-inch diameter gravity sewer pipe along Clear Creek with 30-inch diameter sewer pipe. The purpose of the project is to provide additional capacity alleviating sanitary sewer overflows (SSOs) and serving future growth upstream in the Edneyville area. This project was identified in the City's sanitary sewer collection system master plan.



Northside Water System Improvements

Water service in the Fletcher (Northside) area will be improved by creating a new pressure zone with a new ground storage tank at a higher elevation and a water pump station. This tank will be constructed adjacent to the existing one. The tank will be served by a water booster station, which will be constructed south of the US 25 and Howard Gap Road intersection. The booster station will fill the tank during off-peak hours and provide additional flow during peak demands. This project, which is nearly complete, reflects the City's commitment to serving the continued growth and development of the Fletcher area.



Laurel Park Water Meter Upgrade

The City of Hendersonville and the Town of Laurel Park approved a water system merger in the Spring of 2021 to enhance the entire utility system and metering infrastructure. Water customers on the City of Hendersonville system have enjoyed the many benefits of automated metering technology for years. Now, customers on the Laurel Park system have been upgraded to new automated meters and provided with the same benefits. Laurel Park meters were replaced and connected to an automated and near real-time reading network, referred to as Advanced Metering Infrastructure (AMI).



Jabil/Garrison Ln Water and Sewer Project

Jabil Inc. broke ground on their 18.65-acre tract in Garrison Industrial Park, recognizing not only the multimillion dollar investment Jabil will make in Henderson County, but also the creation of the industrial park. Executed in November 2020, the historic Three-Party Agreement between the Economic Investment Fund of Henderson County (EIF), Henderson County, and the City of Hendersonville brought forces together to buy and develop the 41-acre industrially zoned site off Commercial Boulevard in southern Henderson County. The City received a \$556,000 grant from the Golden Leaf Foundation for the installation of the water lines that will serve the site.

ADAM STEURER, Utilities Engineer

1. Why did you choose to work for the City of Hendersonville?
Native of Mills River. Enjoy the multifaceted duties working for a utility and providing a high-level of service to the community.

2. What is your favorite part of your job?
Multifaceted duties working for a utility. Engineering (especially performing simulations within the utility's hydraulic water and sewer modeling software), planning, budgeting, creating policy, customer service, legal, education/outreach. Excellent coworkers.

3. What do you like to do for fun?
Mountain biking, fishing, and thinking about water infrastructure.

4. What does your typical workday look like?
I design and manage water and wastewater projects within the utility's capital improvement plan: line extensions, line replacement and rehabilitation, treatment facility improvements. I conduct project planning and prioritization, funding application and administration, permitting, procurement/bidding, and construction administration. I also provide technical support to utility operations personnel and provide recommendations. Finally, I review water and sewer connections associated with private development projects to determine the utility's ability to serve and to ensure new infrastructure is installed in accordance with utility standards and policies

5. What is the most important lesson you have learned in your work?
Before working for the utility, I didn't fully realize the intricate, behind-the-scenes components of providing water and sewer service. It is easy to take for granted how these systems work, until they don't. Our operations and maintenance personnel are extremely knowledgeable and dedicated across their specialties; whether it is operating water or wastewater treatment facilities, repairing water leaks, replacing fire hydrants, cleaning sewer lines, or maintaining pump stations.



PLEASE HELP US RECOGNIZE THIS YEAR'S WATER AND SEWER DEPARTMENT MVPS:

Jay Heatherly
Jeremy Poss
Kenneth Page
Jonathan Owen
Rhonda Wiggins
Scott Chovan
Gary Norton
George Reedy
Rick Brown

Sherman Johnson
Jared Warren
Patrick Cooke
Kourtney Looper
Steven Warren
David Perrow
Andrew Jones
Brently Orr
Matthew Herman

Austin Williams
Matthew Keener
Harley Gordon
Kasey Sudderberg
LB Heatherly
James Clugh
Brandon Smith
Evan Doughty
Paul Williams



305 WILLIAMS ST.
HENDERSONVILLE, NC 28792
828-697-3073
hendersonvillenc.gov/water-sewer



The WaterSense partnership program shares resources and encourages the adoption of water-efficient behaviors and quality products that use less water. To learn more visit: <https://www.epa.gov/watersense>



CITY OF HENDERSONVILLE AGENDA ITEM SUMMARY

SUBMITTER: John Connet **MEETING DATE:** 4/25/2022
AGENDA SECTION: NEW BUSINESS **DEPARTMENT:** Engineering
TITLE OF ITEM: Grant and Collaboration Opportunities – *Bent Detwiler, City Engineer*

SUGGESTED MOTION(S):

NA

SUMMARY:

Brent will discuss potential opportunities to obtain grant funding to extend water and sewer to areas with failing septic tanks and contaminated wells.

BUDGET IMPACT: NA

Is this expenditure approved in the current fiscal year budget? NA

If no, describe how it will be funded. NA

ATTACHMENTS:

None