

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**July 20, 2022**

**1. Call to Order and Roll Call:**

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2:00 pm, Wednesday, July 20, 2022. Chairman Vahaun presided with the following members present: Ashley, Bryson, Dearth, Franklin, Kelly, Lapsley, Pelly, Pennington, Pressley, Watts, Whitesides and Wisler. Manheimer was absent.

Others present were William Clarke, General Counsel; Forrest Westall with McGill Associates; Patty Beaver with CIBO; Erin McCombs with American Rivers; Mark Hunt, Citizen; Tom Hartye, Hunter Carson, Mike Stamey, Ken Stines, Pam Thomas, Roger Edwards, Chad Ledford, Alan Taylor, Spencer Nay and Pam Nolan, MSD.

**2. Election of Officers:**

Mr. VeHaun called for nominations for Chair of the MSD Board. Mr. Kelly nominated Mr. VeHaun as Chair. Mr. Watts seconded the nomination. With no further nominations Mr. Kelly called for a motion that nominations be closed and that, by acclamation, Mr. VeHaun be elected as Chair of the MSD Board for 2022-2023. Mr. Pelly moved and Mr. Whitesides seconded the motion. Voice vote in favor of the motion was unanimous.

Mr. VeHaun called for nominations for Vice Chair of the MSD Board. Ms. Bryson nominated Mr. Kelly. Mr. VeHaun seconded the nomination. Mr. VeHaun called for further nominations. With no further nominations, Mr. VeHaun called for a motion that nominations be closed and that, by acclamation, Mr. Kelly be elected as Vice Chair of the MSD Board for 2022-2023. Mr. Whitesides made the motion. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

Mr. VeHaun nominated Ms. Bryson for re-appointment as Secretary/Treasurer of the MSD Board for 2022-2023. Mr. Pressley made the motion. Mr. Whitesides seconded. Voice vote in favor of Ms. Bryson's re-appointment was unanimous.

**3. Inquiry as to Conflict of Interest:**

Mr. VeHaun asked if there were any conflicts of interest with the agenda items. No conflicts were reported.

**4. Approval of Minutes of the June 15, 2022 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the June 15, 2022 Board Meeting. Mr. Kelly moved for approval of the minutes as presented. Mr. Pelly seconded the motion. Voice vote in favor of the motion was unanimous.

**5. Discussion and Adjustment of Agenda: None.**

**6. Introduction of Guests:** Mr. VeHaun welcomed Patty Beaver with CIBO, Forrest Westall with McGill Associates, Erin McCombs with American Rivers and Mark Hunt who was in attendance for the American Rivers discussion.

7. **Informal Discussion and Public Comment:** None.

8. **Report of General Manager:**

Mr. Hartye reported that attached are two Answer Man articles from last month regarding MSD. There has been a lot of interest in the wastewater industry operation in Buncombe County lately. In response to that interest, he stated that he felt it would be a good time to have a presentation about the pretreatment program. The Pretreatment Program regulates commercial and industrial customers. Mr. Hartye reported that Roger Edwards, MSD's Director of Wastewater Treatment and Chad Ledford, Manager of MSD's Pretreatment Program will give a brief presentation regarding MSD's Pretreatment Program.

Mr. Edwards reported that he will be covering the Federal Pretreatment Program Framework. The Federal Water Pollution Control Act (FWPCA) amendments of 1972 are commonly known as the Clean Water Act (CWA). CWA established the authority for the National Pollutant Discharge Elimination System (NPDES) Program for Water Reclamation Facilities and industrial discharges. All NPDES permits are point source discharges to surface waters in the United States. The EPA developed the regulations limiting pollutants discharge to all surface waters. The EPA recognized early on that the NPDES program would not fully cover the intent of the CWA so additional controls and mechanisms would be necessary. That's when they established the National Industrial Pretreatment Program, regulating the discharge of industrial waste to collection systems and water reclamation facilities. These discharges are considered indirect discharges because they do not go to surface waters of the United States. The General Pretreatment Regulations are found in 40 CFR Part 403 and went into effect in January of 1981. The Pretreatment Program is the only EPA environmental program to authorize local governments to directly implement and enforce Federal Regulations. The Pretreatment Program prevents introduction of pollutants in a harmful volume or concentration to the collection system which could cause pass through interference with the treatment of the wastewater or interfere with disposal of biosolids. These regulations also protect the collection system workers, the environment, the capability of the wastewater facility to treat the wastewater and the public health. There are specific prohibitions included, the first being fire and explosion hazards. You cannot discharge flammable liquids such as gasoline and kerosene, to a collection system. You cannot discharge corrosive material to the collection system if the pH is less than 5.0 standard units. Any solid or viscous material that could cause obstruction or interfere with the flow in the collection system or the wastewater treatment plant itself are prohibited. Flows in concentrations that could cause interference are prohibited. Heat, which is typically not thought of as a pollutant, can be damaging to the biological activity at the wastewater treatment plant so it is controlled through these regulations. Oils, whether petroleum or animal based, that could pass through the treatment process, are prohibited. Pollutants that can create toxic gases, fumes or vapors are prohibited. Trucked or hauled waste cannot be discharged unless there is a specific designated point to be discharged into the collection system. Legal authority comes through MSD's Sewer Use Ordinance (SUO) which was updated in 2020. This enables MSD to require that Industrial Users comply with all applicable standards and gives us the ability to deny the contribution of pollutants that do not meet applicable requirements. It allows MSD

to issue the Industrial Users Permits that must be complied with. It requires that MSD and the entities perform monitoring activities. MSD is required to take enforcement action for any non-compliance. This can be in the form of administrative orders, consent orders, and monetary civil penalties. MSD is required to honor any confidential information at any of the industries and is required to keep that information separate from general files. MSD does that by keeping the information in a locked file cabinet. MSD has Categorical Industrial Users (CIU's). It doesn't matter how much they discharge to the system, they are required to have a permit under Federal Regulations just by the nature of that business. Examples of CIU's would be pharmaceuticals, metal finishing, molding/casting, and electroplating. There is another category which is Significant Industrial Users (SIU's). These are based on MSD's discretion and the regulation. If they have an average discharge greater than 25,000 gpd of process wastewater, contribute 5% or more of the WRF's average, whether hydraulic flow or organic capacity; or if they have a reasonable potential to adversely impact the WRF operation or violate pretreatment standards or requirements. MSD's requirements under the federal framework are that we must conduct a minimum of annual inspections and sample all regulated pollutants. Categorical Industrial Users and Significant Industrial Users have to perform self-monitoring and sampling and report to MSD on a monthly basis. MSD is required to maintain a compliance monitoring database and issue notices of violation (NOV's) to any of the entities or industrial users that do not comply with regulations. This is done through MSD's Enforcement Response Plan. MSD is also required to develop, enforce, and update local limits as required due to regulatory changes, treatment facility compliance history and capacity. MSD is also required to do annual reporting and monitoring. The long-term monitoring program is a quarterly sampling that has to be done in order to develop the Headworks Analysis. The Headworks Analysis is a report that has to be sent into the Division of Water Resources on a five-year basis indicating that we are not overloading the wastewater treatment plant with pollutants, and we have a safety factor left so that we can accept industry that may want to relocate to the area. MSD also has to do a pretreatment annual report which is all correspondence looking at compliance with all related industry. We are required to report the Industrial Waste Survey every five years. To conduct that survey, we look at all industries within our service area and make sure that we can identify them if they have a permit and that we are sampling them for the appropriate pollutants.

Mr. Ledford reported on MSD's Pretreatment Program. MSD has a Fats, Oils and Grease Program with a Grease Program Inspector. MSD also has an Industrial Pretreatment Program with an Industrial Pretreatment Coordinator. We also handle the Fermented Beverage Manufacturer Regulation. MSD also has the WRF Process Laboratory with a Pretreatment Laboratory Specialist. We also handle the long-term reports that Mr. Edwards mentioned above and help with the MSD Odor and Corrosion Control Program. Currently in the Industrial Pretreatment Program there are fifteen categorical industries regulated, seven significant industrial users and forty locally regulated industrial users. MSD also has multiple categorical industries that are zero discharge and those are permitted and inspected as well. These facilities are inspected to ensure compliance with EPA and NCDWR regulation. Mr. Ledford stated that we review and approve industrial pretreatment equipment, give authorization to construct, send an annual report to NCDWR and issue NOV's and assess civil penalties in accordance with SUO and ERP. The fermented beverage

manufacturers have been a very large, growing section of the program, which is now up to 120 brewing locations. Mr. Ledford reported that in the 2020 SUO, we created some streamlined regulations, working with the Asheville Brewing Association to make sure there were positive regulations for the area. We currently permit and inspect based on the facility size and report review. The Fats, Oil and Grease Program is another growing section of the program. There are currently 1,700 food service establishments regulated. We focus on education and outreach, and send out pamphlets for schools, apartments, and other organizations. Inspections are performed daily in this program. We also work with Planning and Development to review any new food service establishments, oil change facilities, oil water separators or any commercial facility that could impact collections or treatment. We issue NOV's and civil penalties in accordance with SUO and ERP. The process at the WRF Laboratory includes performing daily analysis for indication of operational conditions. We analyze the biological growth on the RBC's to make sure the growth patterns are favorable. We maintain and calibrate various lab and operational equipment. We perform program specific sampling for pretreatment and the WRF. The Long-Term Monitoring is performed quarterly, sometimes more depending on the results. The Priority Pollutant Analysis is performed three times per permit cycle. We also sample for contaminants of emerging concern. Long term projects include the Headworks Analysis. With the Headworks Analysis we use the Long-Term Monitoring data over five years to calculate WRF loading and allowable allocations for industry. We identify pollutants of concern for future WRF upgrades and changes. The Industrial Waste Survey is performed every five years using Planning and Development, Chamber of Commerce, and a Manufacturer's Registry. Planning and Development here at MSD has been crucial to the Pretreatment Program and we work closely with them. For the Odor and Corrosion Control Program there are three different monitored dosing stations located strategically throughout the MSD system, along with scheduling chemical deliveries, using air monitors to collect data, and adjusting chemical dosage based on the monitoring data to reduce odor and corrosion. We work closely with System Services to determine how effective the program is functioning. Moving forward our Staff will continue compliance with all Federal and State pretreatment regulations and analytical requirements, continue to improve community outreach and education and continue working closely with the public and the County Health Department. Mr. Hartye asked if they had ever had to fine someone. Mr. Edwards and Mr. Ledford stated yes. Mr. Hartye stated that the industries do work well and report well. Mr. Edwards stated that they do have a very good compliance record for the industries, and very seldom do they have to advertise an industry name in the paper, which is required if they are not in compliance for a period of time. Mr. Clarke asked how many industrial users, including the CIU's, there are. Mr. Edwards stated there are about 22 with significant and categorical and 40 industrial users that they feel could have a negative impact on the plant. They are permitted as well. Mr. Clarke asked if they also accept waste from septage hauling. Mr. Edwards stated that is correct. Typically, on a monthly average, they are getting close to 1 million gallons of trucked in waste from the area every month. This can be problematic sometimes, as you would be surprised what can come out of a septic tank, so you have to keep a close eye on the bar screens. Even though there are permits for all of the septage hauling trucks and they express to them that if they have a bad load they need to call and let Staff know ahead of time. They can actually blind over the bar screens and cause MSD to have a reportable incident. Staff tries to keep everybody well educated and informed. Mr. Hartye added that he couldn't

understate the grease program as well, with 1,700 establishments, and having to keep track of the grease interceptors and grease traps. He stated that Alan Taylor does a great job inspecting those and keeping people on task. Businesses put the grease traps in initially and then forget about them and that can cause backups in the system if there is a slug of grease cooling off. They don't realize that if it goes down their drain and makes it out of the system and cools off it's going to clog up the system. Mr. Pennington stated that Buncombe County is seeing a lot more requests for campgrounds and they have a requirement that they have to put in a dump station which is important to highlight because sometimes they use chemicals in rv's that have no place in the septic system. Mr. Pennington asked what MSD does with the chemicals, especially the blue ones like you see in porta johns. Mr. Edwards stated that due to the volume that MSD is treating it doesn't really negatively impact the waste stream so it can be handled through the plant and treated. If they were to dump into a smaller facility it could have an impact where it could possibly kill off biological growth which is actually what treats the wastewater. Mr. Pennington stated that he sees some of the septic pumpers with an MSD Permit on the side of their truck and asked if that is a requirement. Mr. Edwards stated yes, that is a requirement. It helps track them if there are issues. There are active cameras at the stations and with the MSD permit number on the side of the truck, Staff can go back and see what is going on. Mr. Stines added that there is a huge difference in the collection system if there is a grease trap failure, in no time it will stop up several thousand feet of line downstream of that business and create overflows which is a nightmare to clean and get the grease out of the pipes once that occurs. He stated they do a fantastic job when they find an issue by addressing those businesses and it has made a world of difference over the last few years with overflows. Mr. Hartye added that's even with all of the new restaurants coming in. Mr. Westall asked Mr. Edwards about the issues they had with the breweries early on and if that is now pretty much behind us. Mr. Edwards stated he believed so and that there was recently one brewery that obtained a Significant Industrial User category based on their flow. MSD has a great working relationship with the breweries, and everything is going smoothly with the fermented beverage manufacturers. Mr. Ledford added that they can now use those SUO Guidelines to regulate and it is much more streamlined, based on their size. Mr. Hartye stated that Staff puts together best management practices for them as well so they can guide the smaller "ma and pa" ones as to whether there are good practices around their plant. Mr. Westall stated that he ran the pretreatment program in 1981 and has a long history with pretreatment and MSD has always been a model in terms of managing the sewer collection system and running their pretreatment program and that's no different today, it is an excellent program. He stated that this made his job in the regional office easier when he was in Raleigh. The Pretreatment Program is extremely important to the water quality of North Carolina, it is hard to underemphasize the importance of controlling these sources before they go through the wastewater treatment plant. Not only to protect the plant but passing through into the streams.

Mr. Hartye reported that MSD operates a hydroelectric facility that is 2,880 KW. This facility basically saves our customers \$300,00 to \$500,000 annually and with the power costs from Duke Energy, which is roughly half of what is needed for the plant. MSD's plant is a high energy plant by nature of how it was built and it's

design. This hydroelectric facility reduces our carbon footprint for the treatment plant by roughly half. A couple of weeks back MSD and the Town of Woodfin were approached by American Rivers representatives with the interest in removing the Craggy Hydroelectric Dam, or at least conducting a study to see if it would be feasible. They have \$800 Million from the Infrastructure Investment and Jobs Act dedicated for dam removal across the US. They have some other funding for the study itself so they will be funding the study themselves. They would like MSD to participate by providing information for the study and to consider the findings when completed. Mr. Hartye stated that he, Mr. Clarke, and Mr. VeHaun met with them and are bringing the Board up to speed that we are getting involved in that effort. This is expected to take approximately 6 months. Mr. Clarke stated that it is a very interesting concept, and this is just a study. Bond funds were used for the hydro renovation, and it is part of the MSD sewer system so before anything like that is done you would have to get approval of the Bond Counsel and Engineer of Record that getting rid of the dam would not result in any adverse economic impact on the system. Mr. Westall also added that the dam was there long before MSD built the plant, and the hydroelectric facility came along after. Mr. Clarke stated that was correct. Mr. Hartye stated that there were two more dams in Marshall as well. Mr. Hartye stated that he will keep this Board advised.

Mr. Hartye reported that MSD received a call from Ron Butler at 84 French Willow Drive to let us know how happy he was with the service he received from John Gosnell, Pete Cole, and Ray Lunsford. He stated that they were very professional and helped him solve a problem that he had been working on for 6-8 months.

Mr. Hartye reported that the next regular Board Meeting will be held on August 17<sup>th</sup> at 2 pm. The July Right of Way Committee Meeting has been cancelled. The next Right of Way Committee meeting will be held on August 24<sup>th</sup> at 9 am.

**9. Report of Committees:**

**a. Personnel Committee – July 19, 2022**

Ms. Bryson reported that the Personnel Committee met on July 19, 2022 and discussed Mr. Hartye's Goals and Objectives along with consideration of his contract renewal. Staff's recommendation to Personnel Committee was to continue Mr. Hartye's contract for 4 years, and to increase his salary by 7% COLA and 1% Merit. Personnel Committee recommendation to this Board was unanimous.

Mr. VeHaun called for a motion to approve the Personnel Committee recommendations. Mr. Ashley moved. Mr. Pennington seconded the motion. Roll call vote was as follows: 13 ayes, 0 nays.

**10. Consolidated Motion Agenda:**

**a. Consideration of Bids – Toxaway Street Rehabilitation**

Mr. Hartye reported that this project is located in West Asheville between Hazel Mill Road and Westwood place and is comprised of 722 LF of 8-inch SDR26 Heavy Wall PVC. This pipe was specifically specified for this project due to the long lead times and unusually high prices for ductile iron pipe. The project was formally advertised on June 30, 2022, and three bids were received as follows: Thomas Construction Company in the amount of \$549,125.00; TP Howard's Plumbing Co., Inc. in the amount of \$330,000.00; and Terry Brothers Construction Company in the amount of \$318,890.00. The apparent low bidder is Terry Brothers Construction Company in the amount of \$318,890.00. Terry Brothers has extensive experience with MSD and it has all been favorable. The FY22-23 Construction Budget for this project is \$409,000.00.00. Staff recommends award of this contract to Terry Brothers Construction Company in the amount of \$318,890.00, subject to review and approval by District Counsel.

**b. Consideration of Developer Constructed Sewer Systems – Ambler's Chase; 828 North; Northridge Commons Retail; The Holston; Starnes Cove Subdivision; Guest Off-Site Sewer Extension:**

Mr. Hartye reported that the Ambler's Chase project is located off Reems Creek Road and included extending approximately 1,200 linear feet of 8-inch public gravity sewer to serve the 21 homes in this residential development.

Mr. Hartye reported that the 828 North project is located off Garrison Branch Road in the Town of Weaverville and included extending approximately 1,080 linear feet of 8-inch public gravity sewer to serve the 224 apartments in this residential development.

Mr. Hartye reported that the Northridge Commons Retail project is located in the Town of Weaverville and included extending approximately 790 linear feet of 8-inch public gravity sewer to serve retail space in this commercial development.

Mr. Hartye reported that The Holston project is located along Monticello Road in the Town of Weaverville and included extending approximately 36 linear feet of 8-inch public gravity sewer to serve 240 apartments in this residential development.

Mr. Hartye reported that the Starnes Cove Subdivision project is located in Buncombe County and included extending approximately 310 linear feet of 8-inch public gravity sewer to serve 14 homes in this residential development.

Mr. Hartye reported that the Guest Off-Site Sewer Extension project is located along Gage Drive in Buncombe County and included extending approximately 195 linear feet of 8-inch public gravity sewer to serve this 16 unit commercial/residential development.

Staff recommends acceptance of the aforementioned developer constructed sewer systems. All MSD requirements have been met.

**c. Cash Commitment Investment Report – Month ended May 2022:**

Mr. Hartye reported that the average rate of return for all investments was 0.366%. Total Cash & Investments was \$82,661,215.00. With obligations, this number is brought down to \$45,369,462.00. Year to date monthly expenses and cash receipts are at budgeted expectations.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Ms. Wisler moved, Mr. Pelly seconded the motion. Roll call vote was as follows: 13 ayes; 0 Nays.

11. **Old Business:** None.
12. **New Business:** None.
13. **Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:40 pm.

  
Jackie W. Bryson, Secrey/Treasurer



# MSD

## Regular Board Meeting

Metropolitan Sewerage District  
of Buncombe County, NC

### AGENDA FOR 7/20/2022

✓	Agenda Item	Presenter	Time	
	Call to Order and Roll Call	VeHaun	2:00	
	01. Election of Officers	VeHaun	2:05	
	02. Inquiry as to Conflict of Interest	VeHaun	2:10	
	03. <a href="#">Approval of Minutes of the June 15, 2022 Board Meeting</a>	VeHaun	2:15	
	04. Discussion and Adjustment of Agenda	VeHaun	2:20	
	05. Introduction of Guests	VeHaun	2:25	
	06. Informal Discussion and Public Comment	VeHaun	2:30	
	07. <a href="#">Report of General Manager</a>	Hartye	2:35	
	08. Report of Committees		2:45	
	a. Personnel Committee – July 19, 2022	Bryson		
	09. Consolidated Motion Agenda	Hartye	2:50	
	a. Consideration of Bids – <a href="#">Toxaway Street Rehabilitation</a>			
	b. Consideration of Developer Constructed Sewer Systems – <a href="#">Ambler’s Chase</a> ; <a href="#">828 North</a> ; <a href="#">Northridge Commons Retail</a> ; <a href="#">The Holston</a> ; <a href="#">Starnes Cove Subdivision</a> ; <a href="#">Guest Off-Site Sewer Extension</a>			
	c. <a href="#">Cash Commitment/Investment Report-Month ended May, 2022</a>	Powell		
	10. Old Business	VeHaun	3:00	
	11. New Business:	VeHaun	3:05	
	12. Adjournment: (Next Meeting 8/17/22)	VeHaun	3:10	
	<a href="#">STATUS REPORTS</a>			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**June 15, 2022**

**1. Call to Order and Roll Call:**

The regular monthly meeting of the Metropolitan Sewerage District Board and Public Hearing on the Budget for FY 2022-2023 was held in the Boardroom of MSD's Administration Building at 2:00 pm, Wednesday, June 15, 2022. Chairman Vehaun presided with the following members present: Bryson, Dearth, Franklin, Kelly, Lapsley, Manheimer, Pelly, Pennington, Pressley, Watts, Whitesides and Wisler. Ashley was absent.

Others present were William Clarke, General Counsel; Joe Martin with Woodfin Sanitary Water & Sewer District; Tom Hartye, Hunter Carson, Scott Powell, Mike Stamey, Ken Stines, Pam Thomas, Matthew Walter, Darin Prosser, Angel Banks, Spencer Nay and Pam Nolan, MSD.

**2. Inquiry as to Conflict of Interest:**

Mr. VeHaun asked if there were any conflicts of interest with the agenda items. No conflicts were reported.

**3. Approval of Minutes of the May 18, 2022 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the May 18, 2022 Board Meeting. Ms. Wisler moved for approval of the minutes as presented. Mr. Pressley seconded the motion. Voice vote in favor of the motion was unanimous.

**4. Discussion and Adjustment of Agenda: None.**

**5. Introduction of Guests: None.**

**6. Informal Discussion and Public Comment: There was no public comment.**

**7. Report of General Manager:**

Mr. Hartye reported that MSD has received the Clean Air Compliance Award from the Asheville-Buncombe Air Quality Agency for 2021. Thanks to the entire Treatment Plant Staff.

Mr. Hartye reported that MSD has received the Distinguished Budget Presentation Award from GFOA for the FY22 Budget document. Thanks to Scott Powell and Jodie Germaine.

Mr. Hartye reported that Pat Bryant of 8 English Ivy Road called to express what a wonderful job Wayne Rice did and to be sure to keep him employed. He said Wayne quickly determined the problem, educated them, and then helped them arrive at a solution. He said it was a great experience and wanted to pass it along.

Mr. Hartye reported that the Final Budget and Public Hearing will be held at this Board Meeting. There have been no changes to the Preliminary Budget that was brought to the May Board Meeting.

Mr. Hartye reported that the next regular Board Meeting will be held on July 20<sup>th</sup> at 2 pm. The next Right of Way Committee meeting will be held on July 27<sup>th</sup> at 9 am.

**8. Report of Committees:**

**a. Right of Way Committee – May 25, 2022**

Mr. Kelly reported that the Right of Way Committee met on May 25, 2022 and accepted Staff's recommendations for Items 08. a – d. of this Agenda.

**9. Consolidated Motion Agenda:**

**a. Consideration of Compensation Budget – Bell Road @ New Haw Creek Road:**

Mr. Hartye reported that the Right of Way Committee recommends approval of this Compensation Budget.

**b. Consideration of Condemnation – Caledonia Road:**

Mr. Hartye reported that this property owner is The Residences @ Biltmore Condominium Owner's Association. MSD has been working with them since November of 2021. Staff has changed designs and offered them the standard compensation of \$89,324. There have been 13 contacts with this owner in an effort to move forward. Ms. Manheimer was excused from voting on this item due to a conflict. The remaining Committee Members recommend approval of Staff's recommendation to obtain appraisals and move forward with condemnation, if necessary.

**c. Consideration Condemnations – Cherokee Road:**

Mr. Hartye reported that this sewer line is about 109 years old and is made up of 6-inch and 8-inch clay lines that are in really bad shape, structures have been built over the lines, there are cracks in the pipe resulting in sanitary sewer overflows. The project started out with 14 easements. There have been 7 easements acquired and 3 have been deleted, with these 4 remaining. Staff has had numerous contacts with these owners and tried to negotiate a few different ways. The Right of Way Committee heard all of Staff's discussions and recommend approval of Staff's recommendation to obtain authority and move forward with condemnations, if necessary.

**d. Consideration Condemnations – Consideration of Land Purchase for Assemblage with Weaverville Pump Station #2:**

Mr. Hartye reported that this is 0.30 acres off of Canoe Lane in Woodfin, adjacent to Weaverville Pump Station #2. MSD previously purchased property on the other side of the pump station and will be having a large project replacing the force main and this pump station in the coming years. This is a good time to purchase this property. Staff believes the price of \$35,000 is reasonable for this

purchase. Right of Way Committee recommends approval of the purchase of this lot for assemblage with MSD's Weaverville Pump Station #2 site.

**e. Consideration of Developer Constructed Sewer Systems – Airport Road Commercial Center; Bee Tree Village Ph. 2A & 2B; Chapman's Cove; CMH Homes Subdivision; Craggy Park Ph. 2; Dollar Tree – Candler; Holbrook Road Ph. 3; Holbrook Road Ph. 4; Nesbitt Farms Ph. II; Reflection Pointe Apartments; Waightstill Mountain Ph. 2B:**

Mr. Hartye reported that the Airport Road Commercial Center project consisted of relocating approximately 206 linear feet of 8-inch public gravity sewer and abandoning approximately 150 linear feet of public sewer to accommodate the Commercial Development.

Mr. Hartye reported that the Bee Tree Village Ph. 2A & 2B project is located in Buncombe County and included extending approximately 150 linear feet of 8-inch public gravity sewer to serve 9 townhouses.

Mr. Hartye reported that the Chapman's Cove project is located off Blue Ridge Assembly Drive in the Town of Black Mountain and included extending approximately 410 linear feet of 8-inch public gravity sewer to serve 10 homes in this residential development.

Mr. Hartye reported that the CMH Homes Subdivision project is located along N. Louisiana Avenue in Buncombe County and consisted of extending approximately 1,057 linear feet of 8-inch public gravity sewer to serve 30 homes in this residential development.

Mr. Hartye reported that the Craggy Park Phase 2 project is located off Craggy Avenue in Buncombe County and included extending approximately 1,273 linear feet of 8-inch public gravity sewer to serve 45 homes in this residential subdivision.

Mr. Hartye reported that the Dollar Tree – Candler project is located along Smokey Park Highway in Buncombe County and included extending approximately 88 linear feet of 8-inch public gravity sewer to accommodate the commercial development

Mr. Hartye reported that the Holbrook Road Ph. 3 project is located off Holbrook Road in Buncombe County and included extending approximately 1,365 linear feet of 8-inch public gravity sewer to serve 32 homes for this phase of the residential development.

Mr. Hartye reported that the Holbrook Road Ph. 4 project is located off Holbrook Road in Buncombe County and included extending approximately 453 linear feet of 8-inch public gravity sewer to serve 12 homes for this phase of the residential development.

Mr. Hartye reported that the Nesbitt Farms Phase 2 project is located along Jeffrees Road in Henderson County and included extending approximately 4,938

linear feet of 8-inch public gravity sewer to serve 46 homes for this phase of this residential development.

Mr. Hartye reported that the Reflection Pointe Apartments project is located along New Leicester Highway in Buncombe County and included extending approximately 1,944 linear feet of 8-inch public gravity sewer to serve the 270-unit apartment complex.

Mr. Hartye reported that the Waightstill Mountain Phase 2B project is located along Arabella Lane in Buncombe County and included extending approximately 690 linear feet of 8-inch public gravity sewer to serve 7 homes of this residential development.

Staff recommends acceptance of the aforementioned developer constructed sewer systems. All MSD requirements have been met.

**f. Report on Non-City of Asheville Road Row Paving Restoration Contract:**

Mr. Hartye reported that this contract is for restoration projects outside of the City of Asheville, for roads, driveways, and sidewalks resulting from District Maintenance activities. The Board awarded a contract at the August 19, 2020, Board Meeting to French Broad Paving Inc. The contract, as presented, included provisions to renew for two, one-year periods if they were performing well. For FY23, the contract will be renewed in the amount of \$488,355.00. French Broad Paving has agreed to these renewal conditions. This contract renewal has also been reviewed and approved by District Counsel.

**g. Report on MSD Paving Agreement with City of Asheville:**

Mr. Hartye reported that this is an annual agreement with the City of Asheville and is for small road patches of 300 SF or less within City Limits. This agreement was entered into between MSD and the City of Asheville in 2013 because MSD was spending more time on “red tape” issues than we were on the small patches that were being made. MSD has a lot of contractors that do a lot of other large paving, in excess of \$1 Million a year, but this is for small patches of 300 SF or less. This agreement has been working out very well. The District’s contribution for FY23 is \$292,412.63. The System Services CIP Construction Budget for FY23 includes appropriate funding for this item.

**h. Cash Commitment Investment Report – Month ended April 2022:**

Mr. Powell reported that Page 51 presents the makeup of the District’s Investment Portfolio. There has been no change in the makeup of the portfolio from the prior month. Page 52 presents the MSD Investment Manager’s report as of the month of April. The weighted average maturity of the investment portfolio is 54 days and the yield to maturity is 0.52%. Page 53 presents the analysis of the District’s cash receipts. Monthly and YTD Domestic and Industrial Revenue are considered reasonable based on timing of cash receipts in their respective fiscal periods. YTD Facility and Tap Fees are above historical trends due to the timing of various cash receipts from developers as well as these fees being budgeted

conservatively. Page 54 presents the analysis of the District's Expenditures. Monthly and YTD O&M expenditures are considered reasonable based on historical trends. Due to the nature of the variable rate bond market, Monthly and YTD expenditures can vary from year to year. Based on current variable interest rates, debt service expenditures are considered reasonable. Due to nature and timing of capital projects, YTD expenditures can vary from year to year. Based on the current outstanding capital projects, YTD capital project expenditures are considered reasonable. Page 55 presents the MSD Variable Debt Service Report. The 2008A Series refunding bonds are performing at budgeted expectations. As of the end of May, the issue has saved the District rate payers \$7.0 million in debt service since April 2008. Mr. Kelly asked why the price we would pay to terminate the existing swap agreement has decreased significantly. Mr. Powell stated that it was related to an increase in interest rates. Mr. Kelly asked where we would have to be if we wanted to terminate this agreement. Mr. Powell stated that when you are looking at cash flows if the amount were to get below around \$500,000, we would need to consider that. Mr. Kelly asked if he meant the termination fee were to get less than \$500,000. Mr. Powell stated yes. Mr. Kelly asked if Mr. Powell thought we were likely to get there. Mr. Powell stated that in today's interest environment it could go below, or it could even turn positive. There was some further discussion regarding interest rates and rising costs. Mr. Hartye added that because MSD has so much construction as a part of the Budget, delay time for materials has been a real problem. Mr. Watts asked if MSD was still using biofuel. Mr. Hartye stated yes.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Mr. Watts moved, Mr. Whitesides seconded the motion. Roll call vote was as follows: 13 ayes; 0 Nays.

**10. Public Hearing: Consideration of Resolution Adopting Final Budget for FY 22-23 and Schedule of Sewer Rates and Fees:**

Mr. VeHaun announced the opening of the Public Hearing at 2:18 pm.

Mr. Powell reported that the numbers included in the Proposed Preliminary Budget are the same as in the Proposed Final Budget. The Proposed Final Budget for FY22-23 is \$59.85 Million and incorporates the following:

- 3.0% Domestic Rate Increase. This is a \$1.06 increase in the average single family monthly bill. The average monthly bill will go from \$33.04 to \$34.10.
- No change in Sewer System Development Fees and Sewer Connection Fees in accordance with Staff's recommendation.
- 1.0% Rate of Return on investments.
- 8.3% increase in Salaries and Benefits which has an impact of \$1.25 Million and includes the Personnel Committee Recommendations of the following:
  - \$426,000 in pay and classification study recommendation adjustment
  - 7.0% COLA salary Adjustment

- 6.5% in Self Insurance funding
  - GASB 75 OPEB funding
  - 6.96% increase in State required retirement contribution and unemployment funding.
- 
- 11.6% increase in Materials supplies and service which has an impact of \$975,000. The increase adjusts for inflationary impacts on utilities and fuel as well as adjustments to address regulatory and operational needs including the High-Rate Primary Treatment process which will be coming online this year.
  - Staff's recommendation for FY23 CIP of \$30.3 Million.
  - Staff's recommendation for Capital Equipment as well as debt service.

Mr. Powell reported that the final item included is the Budget Resolution and Schedule of Rates and Fees for FY 22-23. He then asked if there were any questions. Mr. Watts stated the document in front of him showed \$56.784 Million. Mr. Powell stated that amount was just for Operation and Maintenance. The \$59.85 Million is all inclusive. There were no further questions.

Mr. VeHaun called for public comments on the proposed Budget, Resolution and Schedule of Rates and Fees for FY 22-23. There were none. Mr. VeHaun then closed the Public Hearing at 2:26 pm.

With no discussion, Mr. VeHaun called for a motion to approve the Resolution adopting the Final Budget for FY 2022-2023 and Schedule of Sewer Rates and Fees. Mr. Whitesides moved. Ms. Wisler seconded the motion. Roll call vote was as follows: 13 Ayes; 0 Nays.

**11. Old Business:** None.

**12. New Business:** None.

**13. Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:29 pm.

---

Jackie W. Bryson, Secrey/Treasurer



# MEMORANDUM

TO: MSD Board  
FROM: Thomas E. Hartye, P.E., General Manager  
DATE: July 14, 2022  
SUBJECT: Report from the General Manager

- Presentation of MSD Pretreatment Program

Roger Edwards, MSD's Director of Wastewater Treatment and Chad Ledford the Manager of our Pretreatment Program will give a brief presentation regarding MSD's Pretreatment Program. Our Pretreatment Division regulates our industrial and commercial customers. For some industries and commercial enterprises this involves discharge permits, along with regular inspections and effluent testing to ensure that toxic materials or other chemicals are not discharged to the sewer system that may interfere with the treatment process at the plant.

- American Rivers Feasibility Study

MSD and the Town of Woodfin were approached by American Rivers representatives with the interest in removing the Craggy Hydroelectric Dam. They have \$800 million from the Infrastructure Investment and Jobs Act dedicated for dam removal across the US. They would like to conduct a Feasibility Study to investigate the environmental and financial facets of trying to accomplish the dam removal and will be funding the study themselves. They would like MSD to participate by providing information for the study and to consider the findings when completed.

MSD operates this 2880 KW hydroelectric facility which basically saves our customers \$300,000 to 500,000 annually and reduces our carbon footprint for the Treatment plant by roughly half.

- AC-T Articles

Attached are 2 Answer Man articles from the last month regarding MSD.

- Kudos

- MSD received a call from Ron Butler at 84 French Willow Dr. to let MSD know how happy he was with the service he received from John Gosnell, Pete Cole, and Ray Lunsford. He said they were very professional and helped him solve a problem that he had been working on for 6-8 months.

- Board/Committee Meetings/Events

The next Regular Board Meeting will be held on August 17<sup>th</sup> at 2 pm. The July ROW Committee has been cancelled. The next Right of Way Committee meeting will be held on August 24<sup>th</sup> at 9am.



# MOUNTAINS

## Murder hornets out and about? MSD sewerage capacity OK?



**Answer Man**  
John Boyle  
Asheville Citizen Times  
USA TODAY NETWORK

Today's batch of burning questions, my smart-aleck answers and the real deal:

**Question:** You may want to revisit the Answer Man column you wrote last fall about reports of murder hornets in Buncombe. This spring we've already gotten quite a few calls about them again (This question came from the Buncombe County Cooperative Extension Service, listed as the reporting agency for folks who think they've spotted one).

**My answer:** I swear, if it turns out these murder hornets are spreading monkeypox, I'm just throwing in the towel right now.

**Real answer:** Alison Arnold, an agent at Cooperative Extension, said June 13 their office has gotten about 30 calls this spring from folks convinced they've trapped or spotted one of the large, invasive "murder" hornets.

"Typically, here's how this goes: somebody calls and says, 'I have the Asian giant murder hornet or the murder hornet at my house, and I've trapped it,'" Arnold said. "I got online, and it told me to call you and report it."

Arnold generally asks for a photo of the hornet, so they can closely study it.

"The identification is really important for us," Arnold said. "So far, 100%

of the time it's turned out to be the European hornet, which is also quite large, but because of their size they think it's a murder hornet."

The ruckus over murder hornets started back in May 2020 with a small number of Asian giant hornet sightings in the Pacific Northwest, in Washington state. The "Murder Hornet" nickname started trending on Twitter because these critters, native to Asia, are known to kill off bee colonies.

It's easy to see how folks confuse the Asian giant hornets and European hornets. Workers hornets of the Asian variety average over 1.5 inches in length, while the European hornets come in slightly smaller.

The Asian murder hornet species "is much larger than the European one, and the abdomen has a series of black and yellow rings, while the European one has two rows of black spots on a predominantly yellow background," according to James T. Costa, executive director of the Highlands Biological Station and a biology professor at Western Carolina University. Costa offered that assessment last year.

Still, the European hornet is a whopper.

"They're both pretty intimidating," Arnold said. "They're both kind of large and heavy, and they sort of lumber around."



Wastewater is treated at the Metropolitan Sewerage District's water reclamation plant. ASHEVILLE CITIZEN TIMES FILE



A European hornet harvests bark to make a nest. PROVIDED

European hornets have been in North America since 1840, so we've lived with them for a long time.

"We think people are just more alert to them," Arnold said, noting they do not mind folks reporting this at all. "We want to make sure people identi-

fy things accurately. People have called and said they've checked on internet and they're 120% sure they're correct. And then they send a photo and they're not murder hornets."

We also have eastern cicada killers around here, and they can get

over an inch in size. Arnold said they work closely with N.C. State entomologists on the identifications.

The good news is the European hornets, unlike yellow jackets, are not aggressive or just itching to sting you. Also in the good news department... "The murder hornet has not yet been found in North Carolina, or outside of the extreme Pacific Northwest part of the country," Arnold said.

As Arnold mentioned, they welcome reports and want to help residents verify what kind of bug they've got. So, if you've found a huge hornetish-waspy beast in your yard, you can call the Buncombe County Cooperative Extension Service at 828-255-5522.

**Question:** I recently saw on the news that Waynesville has to have a moratorium on any major building projects because their sewage treatment

plant is at capacity. There certainly is a lot of building going on within the boundaries of the Buncombe County Metropolitan Sewerage District in our area. How close is our system to capacity? And with any extra capacity, do they know how much additional building can they sustain? Could you check into any concerns the water utility has in meeting the needs of a growing community?

**My answer:** Sometimes after a particularly gluttonous excursion to Moe's, I just say a little prayer the MSD capacity holds for one more day.

**Real answer:** No need for alarm here.

MSD's executive director, Tom Hartye, told me via email that our wastewater treatment plant is rated for 40 million gallons per day.

"Last year our average flow was 23.9 MGD," Hartye said. "So, in terms of plant capacity and allocated capacity, which is the issue to which your reader refers, MSD is fine."

As far as keeping up with demand and growth, Hartye said MSD has multiple projects it's completed, and others on deck.

"MSD has spent over \$400 million in the last 25 years both rehabbing and replacing components in the collection system (sewers and pump stations) and the treatment plant," Hartye said. "This has helped us keep ahead of both the regulatory changes and growth over time."

MSD also just passed a 10-year capital improvement plan for over \$380 million in upcoming construction.

"This program will provide for both future demand and future regulatory requirements for our 50-year planning period," Hartye said.

Additionally, MSD has two "major upcoming projects," Hartye said: the Treatment Plant biological upgrade at about \$69 million and the Carrier Bridge Pump Station upgrade at about \$42 million.

"The Carrier Bridge pump station is MSD's largest, and its upgrade will involve upgrading larger sewer interceptors as well," Hartye said.

For more information on this project, visit: [www.msdbc.org/documents/projects/carrier-bridge/index.php](http://www.msdbc.org/documents/projects/carrier-bridge/index.php).

This is the opinion of John Boyle. To submit a question, contact him at 232-5847 or [jboyle@citizen-times.com](mailto:jboyle@citizen-times.com)

USA TODAY NETWORK

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# MOUNTAINS

## What's the 'scoop on the poop'? 'Katabatic wind' at work?



### Answer Man

John Boyle  
Asheville Citizen Times  
USA TODAY NETWORK

Today's batch of burning questions, my smart-aleck answers and the real deal:

**Question:** The Answer Man recently answered a question on the Buncombe County Metropolitan Sewerage District's capacity. One of the interesting figures was the incredibly large number of 23.9 million gallons per day being processed by the facility. For obvious reasons, a significant amount of that number has to be solids. Is that number available, as well as the gallons of liquid that are returned to the river? What is done with the solids? Are they incinerated, or perhaps either spread on farm fields or hauled to the landfill? I'm going to assume that the dry matter is basically sterile. Is my assumption correct? Does the MDS find any significant level of toxic chemicals in the waste that comes into the plant? Another journalistic scoop on the poop by the Answer Man would make for interesting reading while I'm having my breakfast.

**My answer:** I'm not going to say this reader has an odd take on appropriate breakfast reading material, but this reader has one odd take on appropriate breakfast reading material. Whoops, slipped up there...

**Real answer:** Tom Hartye, general manager at MSD, answered these queries, noting first that on an "average day, 24 million gallons of wastewater are processed through the MSD Treatment Facility in Woodfin."

"MSD removes screenings (solids above a quarter inch) that weigh approximately 6 tons per day, which are hauled to the county landfill, and processes mostly organic residuals through incineration of 18 dry tons per day," Hartye said. "The inert material that remains is largely clay, carbon, and sand particles."

Hartye noted, "All of the water that comes into the plant flows out after treatment (save for minor losses through evaporation)." That water goes into the French Broad River.

"Regarding toxic chemicals, MSD has a Pretreatment Division that regulates our industrial customers," Hartye said via email. "This involves requiring dis-



Rows of rotating biological contactors work as a step in the process of treating Asheville's wastewater at the water reclamation facility of the Metropolitan Sewerage District on Oct. 9, 2018. The facility has 152 rotating biological contactors. ANGELI WRIGHT/AWRIGHT@CITIZEN-TIMES.COM

charge permits, along with regular inspections and effluent testing to ensure that the industries do not discharge toxic materials or other chemicals that may interfere with the treatment process at the MSD plant."

Hartye also provided a link to the MSD's virtual treatment plant tour, "which is very informative for those interested in how the treatment plant works." You can find it here: <https://youtu.be/sJoqyJAt-uk>.

As someone who's taken an actual tour of the treatment plant, I can tell you it is truly fascinating how all this works — and it really doesn't smell all that bad.

Additionally, Hartye said MSD files "a very detailed system performance report with the state each year." You can find those reports here: <http://www.msdbc.org/spar.php>.

Happy breakfast reading!

**Question:** This is not so much a "burning question" as a warm one. Recently, to beat the heat, we've chosen to

walk our dog before 7 a.m. The past two days we've observed that the air in the park feels cooler than at our home near the top of a (relatively small) mountain, around 2,800 feet. This morning, the thermometer at our house and in our car registered 74 degrees at our house, and our car thermometer registered 70 degrees in the valley, reinforcing our subjective impression. Google insists that although heat rises, higher elevations are cooler because of less air pressure, and indeed we usually find it cooler at home. Not the past few days. So what gives?

**My answer:** I have no idea, but I am officially reserving "Katabatic Wind" as the band name for my group of old fart friends/musicians. I play cowbell and sing badly, by the way.

**Real answer:** "The reader has experienced the product of what is called a 'katabatic wind,'" said David Easterling, director of the National Climate Assessment Technical Support Unit, part of

NOAA's National Centers for Environmental Information in Asheville.

Here's how this works:

"This occurs on calm, clear nights when you get maximum radiational cooling of air near the top of a slope; the air, being cooler and more dense than air lower down the slope flows down much like water," Easterling said via email. "It then collects in areas like the park the reader mentions, and thus the air is cooler than the air higher up the slope leading to a temperature inversion (when air higher up in the atmosphere is warmer than air lower down)."

And while this reader likes walking the pooch in the morning, Easterling suggested a brief evening field trip.

"If the reader goes out to the park on a calm clear evening, they will likely feel a gentle flow of cooler air down the slope," he said.

*This is the opinion of John Boyle. To submit a question, contact him at 232-5847 or [jboyle@citizen-times.com](mailto:jboyle@citizen-times.com)*

**Metropolitan Sewerage District of Buncombe County  
BOARD ACTION ITEM**

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. – General Manager

**PREPARED BY:** Hunter Carson, P.E. – Director of Engineering  
Shaun Armistead, P.E. – Project Manager

**SUBJECT:** Consideration of Bids: Toxaway Street Sanitary Sewer Rehabilitation Project, MSD Project No. 2019004

**BACKGROUND:** The Toxaway Street project is located in West Asheville between Hazel Mill Road and Westwood Place. The project is comprised of 722 linear feet of 8-inch SDR26 Heavy Wall PVC. Heavy wall PVC pipe was specified for this project due to the long lead times and unusually high prices for ductile iron pipe.

The existing sewer line is 6-inch clay with extensive structural problems and roots, resulting in multiple sewer backups and overflowing manholes. This project has a pipe rating of 51.

The project was advertised formally, and three sealed bids were received on June 30, 2022 at 2:00pm in the following amounts:

<u>Contractor</u>	<u>Bid</u>
1) Thomas Construction Company	\$549,125.00
2) T.P. Howard's Plumbing Co, Inc.	\$330,000.00
<b>3) Terry Brother Construction Co.</b>	<b>\$318,890.00</b>

The apparent low bidder is Terry Brothers Construction Company with a bid amount of \$318,890.00. Terry Brothers Construction Company has extensive experience with District rehabilitation projects and continues to provide excellent workmanship.

**FISCAL IMPACT:** The FY 22-23 construction budget for this project is \$409,000.00.

**STAFF RECOMMENDATION:** Staff recommends award of this contract to Terry Brothers Construction Company, contingent upon review and approval by District Counsel.

METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA

Toxaway Street Sanitary Sewer Rehabilitation  
Project No. 2019004

BID TABULATION  
June 30, 2022

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	Total Bid Amount
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$549,125.00
T.P. Howard's Plumbing Co., Inc. Fairview, NC	5%	1	Yes	\$330,000.00
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$318,890.00

APPARENT LOW BIDDER



Shaun Armistead, P.E.  
Project Engineer  
Metropolitan Sewerage District of  
Buncombe County, North Carolina

This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 30th day of June, 2022, in the W.H. Mull Building at the Metropolitan Sewerage District of Buncombe County, Asheville, North Carolina, and that said bids were accompanied by acceptable bidders bonds in the amount of 5% of the bid.

**Metropolitan Sewerage District of Buncombe County, North Carolina  
CAPITAL IMPROVEMENT PROGRAM**

**BUDGET DATA SHEET - FY 2022 - 2023**

<b>PROJECT:</b>	<b>Toxaway Street</b>	<b>LOCATION:</b>	<b>W. Asheville</b>
<b>TYPE:</b>	<b>General Sewer Rehab.</b>	<b>PIPE RATING:</b>	<b>51</b>
<b>PROJECT NO.</b>	<b>2019004</b>	<b>TOTAL LF:</b>	<b>811</b>
<b>PROJECT BUDGET:</b>	<b>\$416,200.00</b>	<b>PROJECT ORIGIN:</b>	<b>Work Orders, Line Condition</b>

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/21	EST. COST JAN - JUNE 2022	BUDGET FY 22-23
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$4,000.00	\$2,825.00	\$1,175.00	
55330 - DESIGN				
55340 - PERMITS	\$1,000.00		\$1,000.00	
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$409,000.00			\$409,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$1,000.00			\$1,000.00
55450 - SURVEY - ASBUILT	\$1,200.00			\$1,200.00
<b>TOTAL AMOUNT</b>	<b>\$416,200.00</b>	<b>\$2,825.00</b>	<b>\$2,175.00</b>	<b>\$411,200.00</b>

<b>ENGINEER:</b>	MSD	<b>SA</b>	<b>ESTIMATED BUDGETS - FY 24 - 32</b>	
<b>R.O.W. ACQUISITION:</b>	MSD	<b># PLATS: [ 0 ]</b>	<b>FY 23-24</b>	\$0.00
<b>CONTRACTOR:</b>			<b>FY 24-25</b>	\$0.00
<b>CONSTRUCTION ADM:</b>	MSD		<b>FY 25-26</b>	\$0.00
<b>INSPECTION:</b>	MSD		<b>FY 26-27</b>	\$0.00
			<b>FY 27-28</b>	\$0.00
			<b>FY 28-29</b>	\$0.00
<b>PROJECT DESCRIPTION:</b> This project is located in West Asheville and is comprised of 811 LF of 8-inch DIP. The existing sewer line is 6-inch clay with extensive structural problems and roots.			<b>FY 29-30</b>	\$0.00
			<b>FY 30-31</b>	\$0.00
			<b>FY 31-32</b>	\$0.00
				\$0.00

**SPECIAL PROJECT NOTES:**



**Toxaway Street  
Project No. 2019004**

NOT TO SCALE



**METROPOLITAN SEWERAGE DISTRICT**  
of  
BUNCOMBE COUNTY, NORTH CAROLINA

**Budget Map**

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for Ambler's Chase Sewer Extension, MSD Project No. 2017249

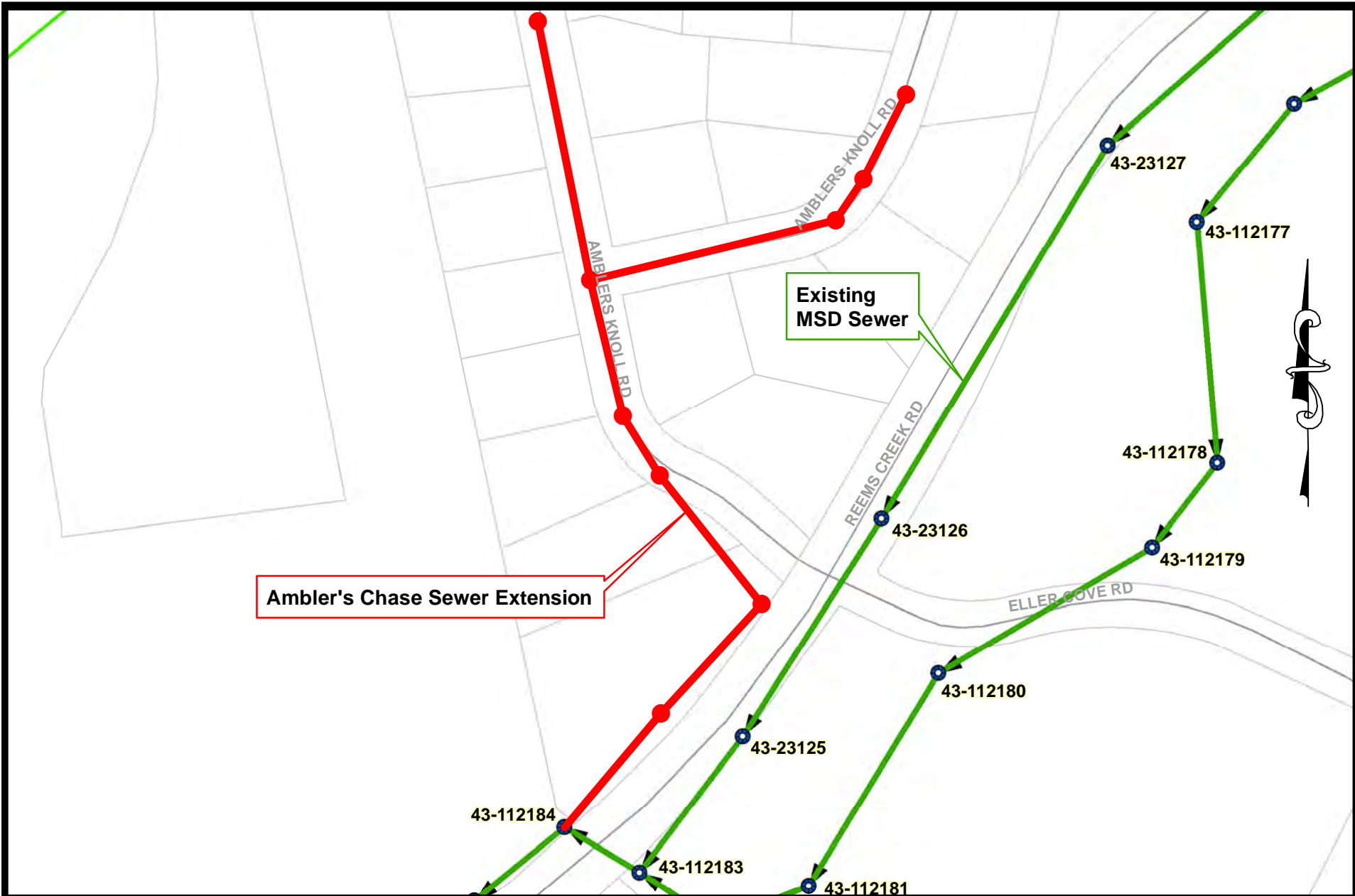
**BACKGROUND:** This project is located inside the District boundary off Reems Creek Road in the Town of Weaverville. The developer of the project is William King of Ambler's Chase, LLC.

The project included extending approximately 1,200 linear feet of 8-inch public gravity sewer to the Single-Family Residential Development.

A wastewater allocation was issued in the amount of 6,300 GPD for the twenty-one (21) homes in the residential development. The estimated cost of the sewer construction is \$105,000.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**Ambler's Chase Sewer Extension**

**Existing  
MSD Sewer**



**MSD**  
Engineering Division

**Ambler's Chase Sewer Extension  
MSD Project # 2017249**

Metropolitan Sewerage District of Buncombe County

06/27/2022



# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the 828 North Sewer Extension, MSD Project No. 2017153

**BACKGROUND:** This project is located inside the District boundary off Garrison Branch Road in the Town of Weaverville. The developer of the project is Stephen Austin of 828 North, LLC.

The project included extending approximately 1,080 linear feet of 8-inch public gravity sewer to the Residential Apartment Development.

A wastewater allocation was issued in the amount of 32,000 GPD for the 224 apartments in the residential development. The estimated cost of the sewer construction is \$78,335.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**MSD**  
Engineering Division

**828 North Sewer Extension  
MSD Project # 2017153**

Metropolitan Sewerage District of Buncombe County

06/27/2022

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Northridge Commons Retail Sewer Extension, MSD Project No. 2020147

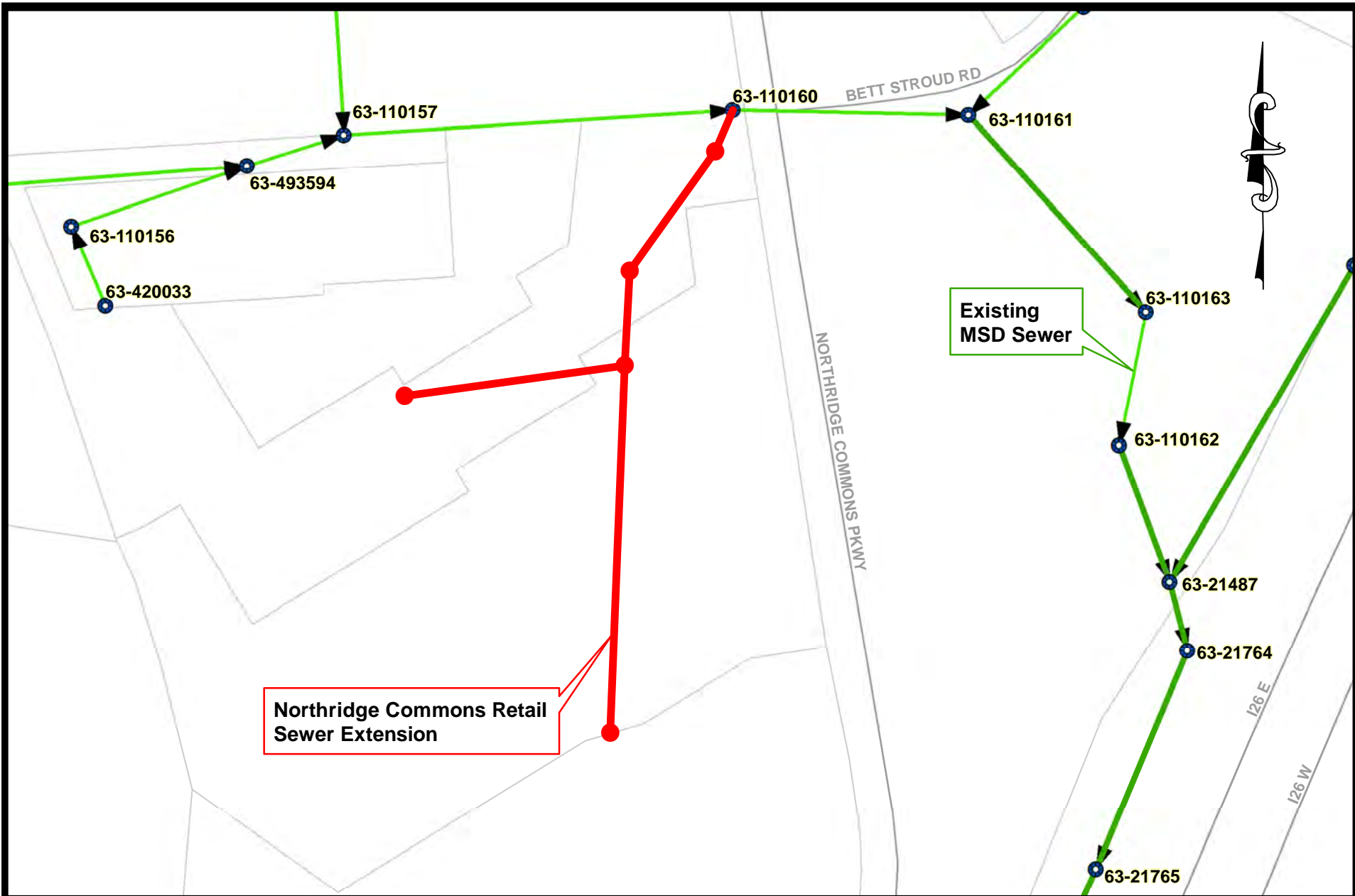
**BACKGROUND:** This project is located inside the District boundary off Northridge Commons Parkway in the Town of Weaverville. The developer of the project is T. Martin Fridy of Magnolia Property Group.

The project included extending approximately 790 linear feet of 8-inch public gravity sewer to the Commercial Development.

A wastewater allocation was issued in the amount of 8,300 GPD for the retail space in the commercial development. The estimated cost of the sewer construction is \$62,000.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**Northridge Commons Retail Sewer Extension**

**Existing MSD Sewer**



**MSD**  
Engineering Division

**Northridge Commons Retail Sewer Extension  
MSD Project # 2020147**

Metropolitan Sewerage District of Buncombe County

06/27/2022

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for The Holston Sewer Extension, MSD Project No. 2019133

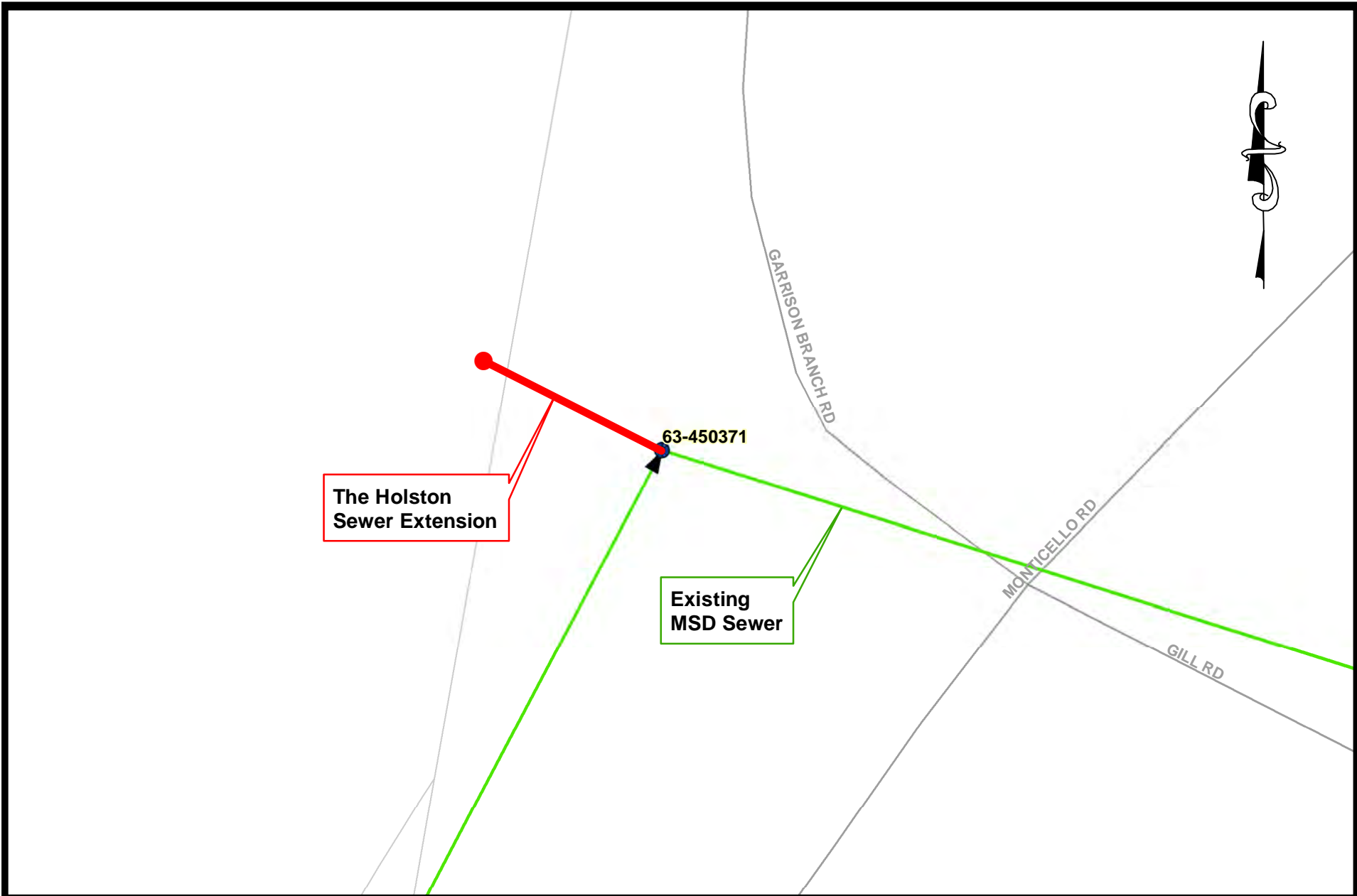
**BACKGROUND:** This project is located inside the District boundary along Monticello Road in the Town of Weaverville. The developer of the project is Bentley Nelson of Crest Residential, LLC.

The project included extending approximately 36 linear feet of 8-inch public gravity sewer to the Residential Apartment Development.

A wastewater allocation was issued in the amount of 75,000 GPD for the 240 apartments in this residential development. The estimated cost of the sewer construction is \$10,875.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**MSD**  
Engineering Division

**The Holston Sewer Extension  
MSD Project # 2019133**

Metropolitan Sewerage District of Buncombe County

06/28/2022

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Starnes Cove Subdivision Sewer Extension, MSD Project No. 2018106

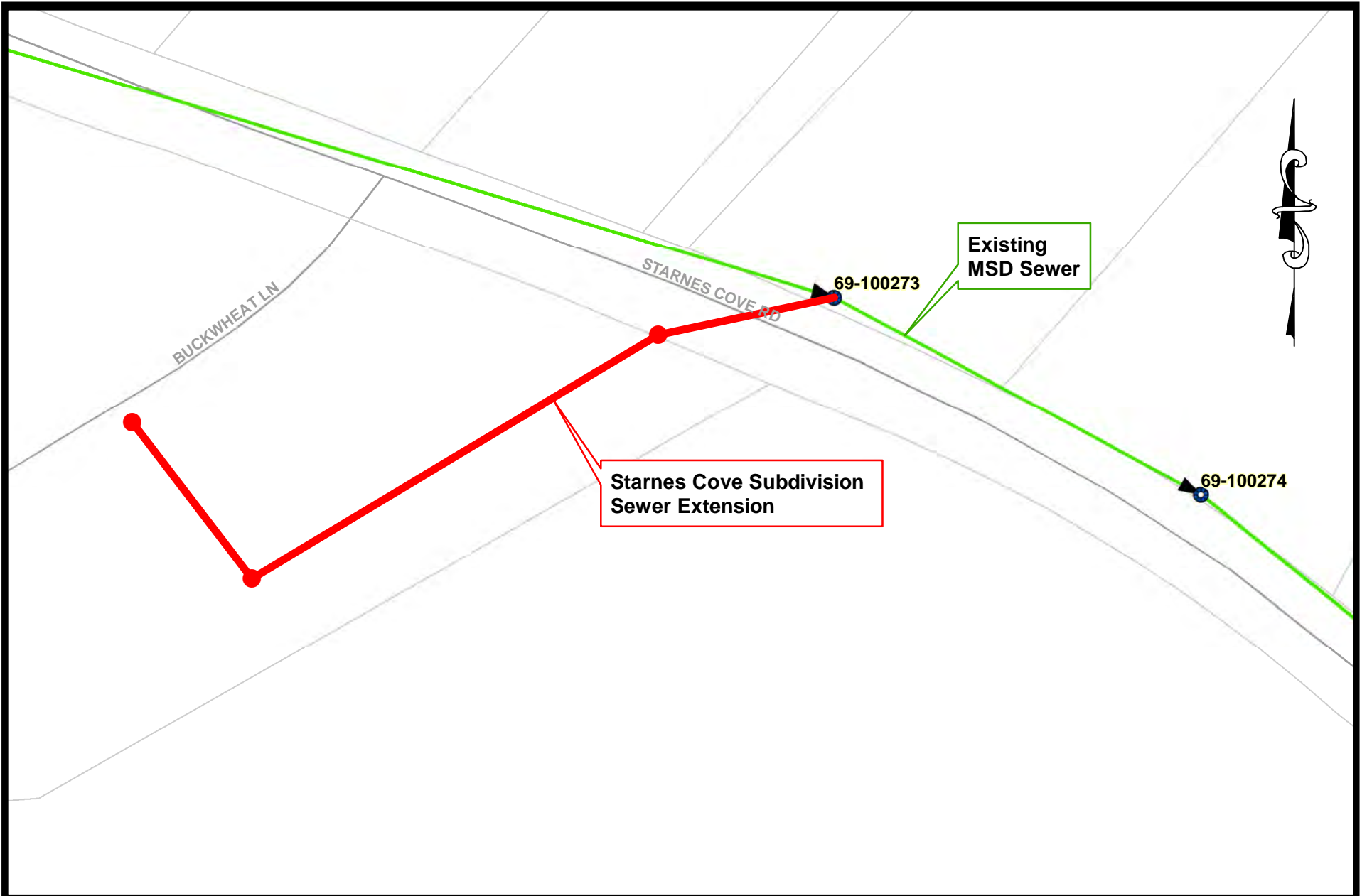
**BACKGROUND:** This project is located inside the District boundary along Starnes Cove Road in Buncombe County. The developer of the project is Mike Price.

The project included extending approximately 310 linear feet of 8-inch public gravity sewer to the Single-Family Residential Development.

A wastewater allocation was issued in the amount of 4,200 GPD for the fourteen (14) homes in this residential development. The estimated cost of the sewer construction is \$32,000.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**MSD**  
Engineering Division

**Starnes Cove Subdivision Sewer Extension**  
**MSD Project # 2018106**  
Metropolitan Sewerage District of Buncombe County

06/28/2022



# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 20, 2022

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Guest Off-Site Sewer Extension, MSD Project No. 2018215

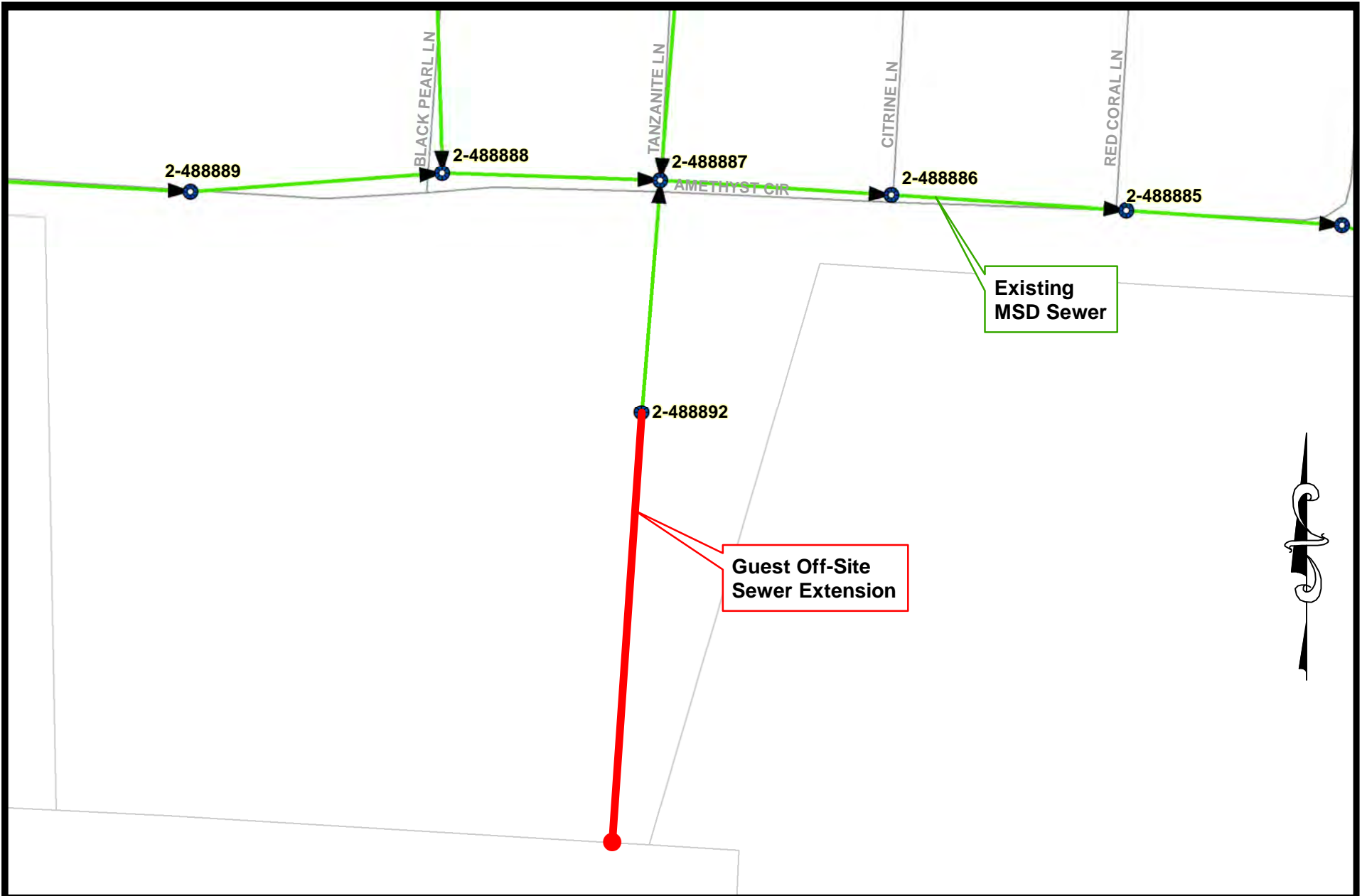
**BACKGROUND:** This project is located inside the District boundary along Gage Drive in Buncombe County. The developer of the project is Jonathan Guest.

The project included extending approximately 195 linear feet of 8-inch public gravity sewer to the Future Commercial/Residential Development.

A wastewater allocation was issued in the amount of 6,400 GPD for the future sixteen (16) unit commercial/residential development. The estimated cost of the sewer construction is \$9,460.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**MSD**  
Engineering Division

**Guest Off-Site Sewer Extension  
MSD Project # 2018215**

Metropolitan Sewerage District of Buncombe County

06/28/2022

# Metropolitan Sewerage District of Buncombe County

## BOARD INFORMATIONAL ITEM

Meeting Date: July 21, 2022  
 Submitted By: Thomas E. Hartye, PE., General Manager  
 Prepared By: W. Scott Powell, CLGFO, Director of Finance  
 Cheryl Rice, Accounting Manager  
 Subject: Cash Commitment/Investment Report-Month Ended May 31, 2022

### Background

Each month, staff presents to the Board an investment report for all monies in bank accounts and specific investment instruments. The total investments as of May 31, 2022 were \$80,287,941. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.366%. These investments comply with North Carolina General Statutes, Board written investment policies, and the District's Bond Order.

The attached investment report represents cash and cash equivalents as of May 31, 2022 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of May 31, 2022 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$45,369,462.

Total Cash & Investments as of 05/31/2022		82,661,215
Less:		
Budgeted Commitments (Required to pay remaining FY22 budgeted expenditures from unrestricted cash)		
Construction Funds	(17,774,548)	
Operations & Maintenance Fund	<u>(3,984,164)</u>	
		(21,758,712)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(123,937)	
FY22 Principal & Interest Due	<u>(7,654,647)</u>	
		(7,778,584)
District Reserve Funds		
Fleet Replacement	(1,003,696)	
Pump Replacement	(194,938)	
WWTP Replacement	(309,792)	
Maintenance Reserve	<u>(1,027,555)</u>	
		(2,535,981)
District Insurance Funds		
General Liability	(540,892)	
Worker's Compensation	(494,600)	
Post-Retirement Benefit	(2,368,669)	
Self-Funded Employee Medical	<u>(1,814,315)</u>	
		<u>(5,218,476)</u>
Designated for Capital Outlay		<u>45,369,462</u>

Meeting Date: July 21, 2022

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2022

Page 2

Staff Recommendation

None - Information Only.

Action Taken

Motion by:

to

Approve

Disapprove

Second by:

Table

Send to Committee

Other:

Follow-up required:

Person responsible:

Deadline:



Meeting Date: July 21, 2022

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2022

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## Metropolitan Sewerage District Investment Managers' Report On May 31, 2022

### Summary of Asset Transactions

	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 74,582,465	\$ 74,602,907	\$ 41,077
Capital Contributed (Withdrawn)	1,474,506	1,474,506	
Realized Income	4,534	4,534	
Unrealized/Accrued Income		11,021	18,546
Ending Balance	\$ 76,061,505	\$ 76,092,968	\$ 59,623

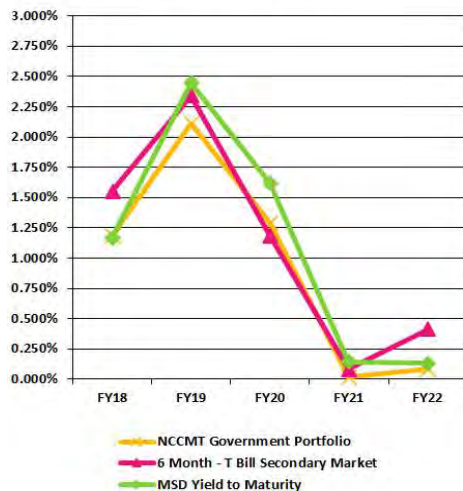
### Value and Income by Maturity

	Original Cost	Income
Cash Equivalents <91 Days	\$ 76,061,505	\$ 34,101
Securities/CD's 91 to 365 Days	-	-
Securities/CD's > 1 Year	-	-
	\$ 76,061,505	\$ 34,101

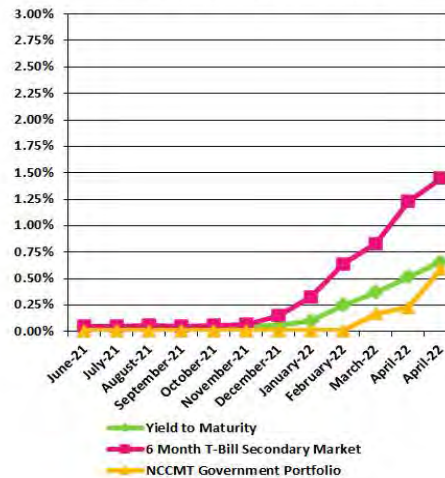
### Month End Portfolio Information

Weighted Average Maturity	39
Yield to Maturity	0.66%
6 Month T-Bill Secondary Market	1.45%
NCCMT Government Portfolio	0.59%

Metropolitan Sewerage District  
Annual Yield Comparison



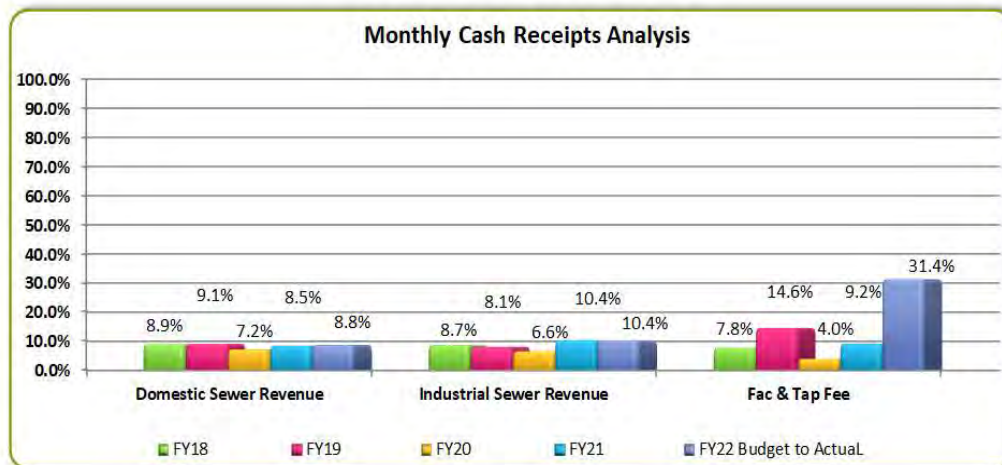
Metropolitan Sewerage District  
Yield Comparison - May 31, 2022



Meeting Date: July 21, 2022

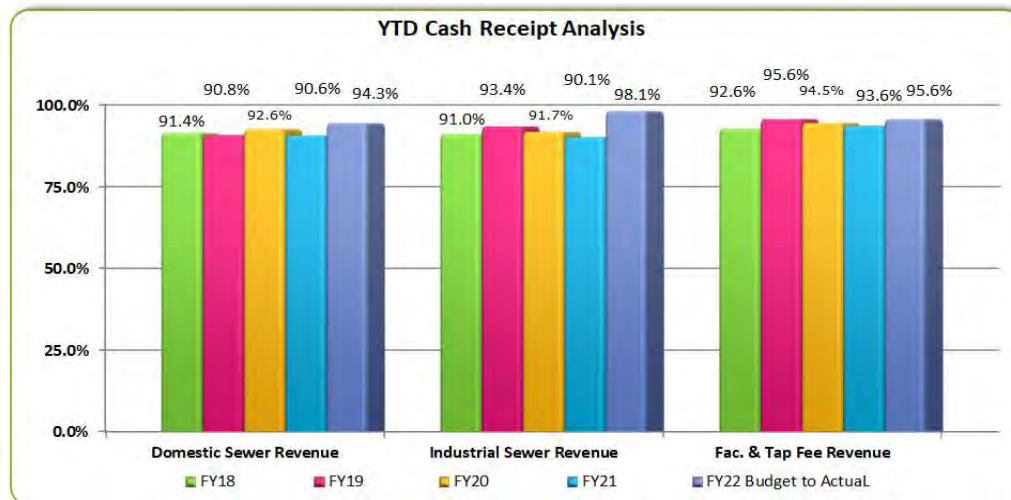
Subject: Cash Commitment/Investment Report-Month Ended May 31, 2022

### Metropolitan Sewerage District Analysis of Cash Receipts As of May 31, 2022



#### Monthly Cash Receipts Analysis:

- \* Monthly domestic sewer revenue is considered reasonable based on timing of cash receipts in their respective fiscal periods.
- \* Monthly industrial sewer revenue is reasonable based on historical trends.
- \* Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.



#### YTD Actual Revenue Analysis:

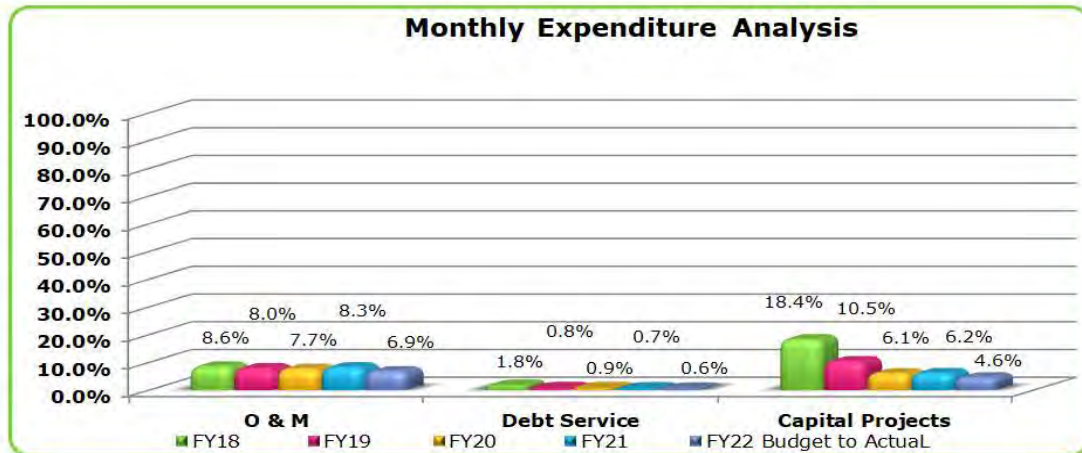
- \* YTD domestic sewer revenue is considered reasonable based on historical trends.
- \* YTD industrial sewer revenue is reasonable based on historical trends.
- \* Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

Meeting Date: Meeting Date: July 21, 2022

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2022

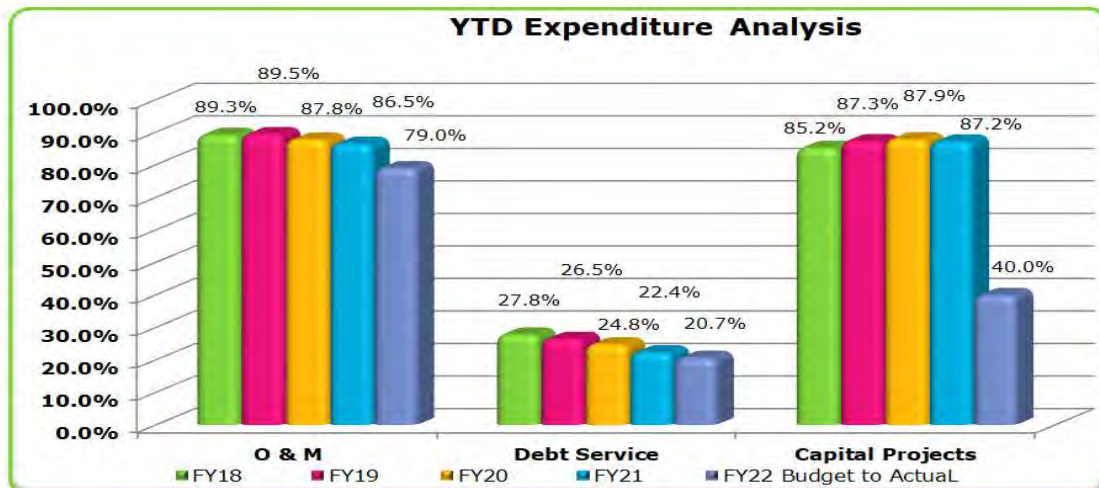
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### Metropolitan Sewerage District Analysis of Expenditures As of May 31, 2022



#### Monthly Expenditure Analysis:

- \* Monthly O&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- \* Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures are considered reasonable.
- \* Due to nature and timing of capital projects, monthly expenditures can vary from year to year. Based on the current outstanding capital projects, monthly capital project expenditures are considered reasonable.



#### YTD Expenditure Analysis:

- \* YTD O&M expenditures are considered reasonable based on historical trends.
- \* Due to the nature of the variable rate bond market, YTD expenditures can vary year to year. Based on current variable interest rates, YTD debt service expenditures are considered reasonable.
- \* Due to nature and timing of capital projects, YTD expenditures can vary from year to year. Based on the current outstanding capital projects, YTD capital project expenditures are considered reasonable.

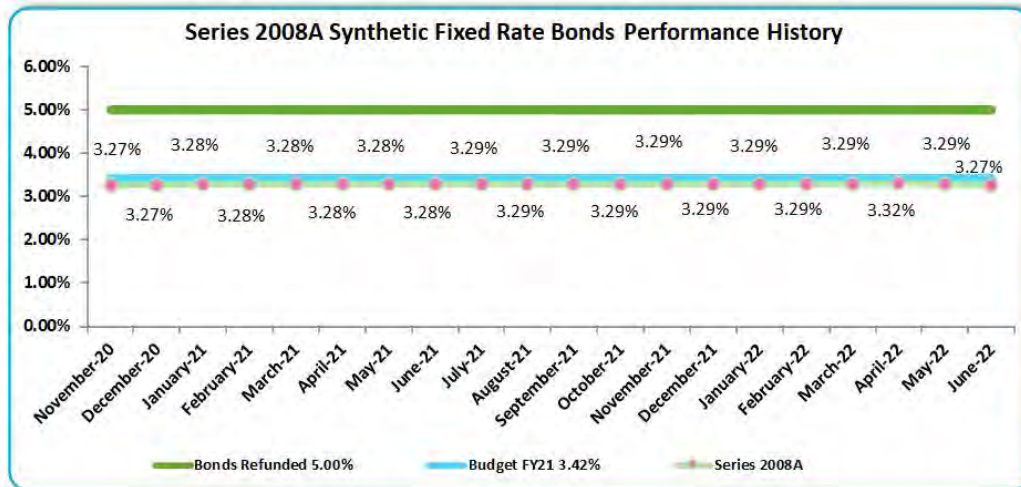


Meeting Date: July 21, 2022

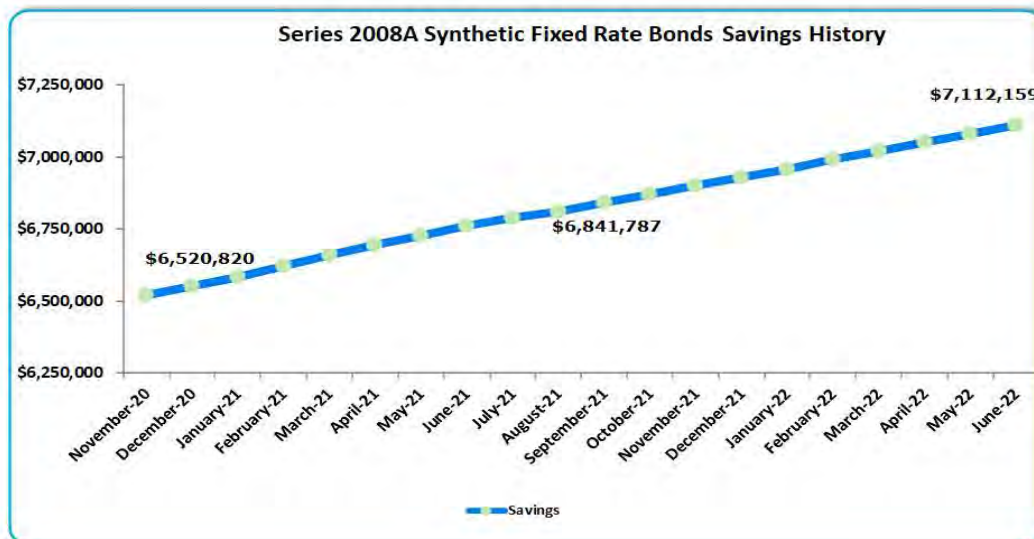
Subject: Cash Commitment/Investment Report-Month Ended May 31, 2022

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### Metropolitan Sewerage District Variable Debt Service Report As of June 30, 2022



Series 2008A:



- \* Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$7,080,923 as compared to 4/1 fixed rate of 4.85%.
- \* Assuming the rate on the Series 2008A Bonds continues at the current all-in rate of 3.7210%, MSD will achieve cash savings of \$4,670,000 over the life of the bonds.
- \* MSD would pay \$809,389 to terminate the existing Bank of America Swap Agreement.

# **STATUS REPORTS**

## MSD System Services In-House Construction

FY 21-22

PROJECT NAME	LOCATION	ZIP CODE	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	NOTES
765 New Airport Road Construction Rehabilitation	Fletcher	28732	365	7/19/2021	281422	M. Hensley	7/19/2021	368	Complete
Northwest Avenue @ 215 Sewer Rehabilitation	Swannanoa	28778	252	7/8/21 - 7/26/21	275846	Norton	7/26/2021	244	Complete
S Bear Creek Road Creek Crossing Replacement	W. Asheville	28806	161	8/23/21 - 8/25/21	282110	Dockery	8/25/2021	161	Complete
Sulphur Springs Road Sewer Rehabilitation Line B	Asheville	28806	1,100	7/1/21 - 11/13/21	278841	Dockery	9/15/2021	1074	Complete
3 Glen Cliff Rd Construction Rehabilitation	Candler	28715	220	11/12/2021	284144	G. Hensley	11/12/2021	220	Complete
Smokey Park Highway Construction Repair	Enka	28715	290	1/11/21 - 12/15/21	283056	Karn	11/18/2021	283	Complete
Coleman Avenue at Conestee Sewer Rehabilitation	Asheville	28801	1,517	9/18/21 - 11/15/21	233875	Dockery	11/30/2021	1485	Complete
72 Dillingham Road	Asheville	28805	234	11/1/21 - 12/17/21	39327	Norton	12/9/2021	240	Complete
Parker Drive At No. 110 Sewer Rehabilitation	Swannanoa	28778	598	12/1/21 - 12/31/21	275885	Dockery	12/20/2021	374	Complete
Briarwood Rd at W. Fox Chase Rd Sewer Rehab	Weaverville	28804	300	12/20/21 - 1/14/22	267160	Norton	1/6/2022	297	Complete
Briarcliff Dr at Oakwilde Dr Construction Rehab Ph. 1	Asheville	28803	189	1/17/22 - 1/31/22	258768	Norton	1/11/2022	189	Complete
129 South Ln @ Warren Wilson Construction Rehab	Swannanoa	28778	155	1/24/22 - 1/28/22	285520	Dockery	1/28/2022	155	Complete
Grace Avenue	Asheville	28804	239	12/20/21 - 2/2/22	284413	Dockery	2/2/2022	258	Complete
49 Eastview Circle Construction Rehabilitation	Asheville	28806	99	2/21/2022	285669	G. Hensley	2/21/2022	99	Complete
Lotus Place Sewer Rehabilitation	Asheville	28804	825	1/31/22 - 3/4/22	275767	Dockery	3/2/2022	851	Complete
Naples PS Elimination and Gravity Conversion Ph. 1	Cane Creek	28760	1858	2/10/22 - 3/4/22	285603	McDevitt	3/25/2022	1564	Complete
Sulphur Springs Road	Asheville	28803	215	4/5/22 - 4/8/22	287063	McDevitt	4/7/2022	204	Complete
753 Fairview Rd Sewer Rehabilitation	Asheville	28803	100	4/11/22 - 4/15/22	275813	McDevitt	4/12/2022	70	Complete
412 Glen Bridge Road	Arden	28704	487	4/25/22 - 5/2/22	287054	Dockery	5/2/2022	487	Complete
White Oak Road Sewer Rehabilitation Phase II	Arden	28704	1110	3/4/22 - 5/6/22	286269	Dockery	5/10/2022	1105	Complete
12 Shiloh Road IRS Rehabilitation	Asheville	28803	128	5/18/2022	47859	M. Hensley	5/18/2022	128	Complete
157 Oteora Blvd Construction Rehab Reroute.	Oakley	28803	50	6/13/2022	288341	Dockery	6/13/2022	40	Complete
276 Hi-Alta Avenue Sewer Rehabilitation	Asheville	28806	201	5/16/22 - 6/17/22	271375	McDevitt	6/10/2022	198	Complete
Charlotte Street @ N Ridgeway Avenue	Blk Mountain	28711	1073	6/15/22 - 8/29/22	232699	Dockery			Construction 40% Complete



## CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2021 to 5/31/2022

	Dig Ups	Emergency Dig Ups	Dig Up ML Ftg	Dig Up SL Ftg	Manhole Repairs	Taps Installed	ROW Ftg	IRS Rehab Ftg *	Const Rehab Ftg *	D-R Rehab Ftg *	Manhole Installs	Bursting Rehab Ftg *	Total Rehab Ftg *
July 2021	29	12	164	509	15	20	13,113	0	368	244	3	0	612
August 2021	24	7	96	631	11	28	5,000	0	161	0	0	0	161
September 2021	22	10	70	320	20	17	30,058	0	0	1082	8	0	1082
October 2021	23	7	51	826	14	33	30,659	0	917	8	1	0	925
November 2021	19	12	107	631	10	26	710	0	220	1545	14	223	1988
December 2021	18	15	99	465	18	15	215	0	0	614	3	0	614
January 2022	17	5	35	504	12	20	2,175	0	344	297	5	0	641
February 2022	30	4	94	739	13	28	0	0	326	258	8	0	584
March 2022	44	12	126	1,109	13	39	0	0	408	2423	8	0	2831
April 2022	23	8	40	954	12	36	0	0	204	70	0	0	274
May 2022	39	6	61	942	16	30	1,788	128	555	1113	11	0	1796
<b>Grand Totals</b>	<b>288</b>	<b>98</b>	<b>942</b>	<b>7,630</b>	<b>154</b>	<b>292</b>	<b>83,718</b>	<b>128</b>	<b>3503</b>	<b>7654</b>	<b>61</b>	<b>223</b>	<b>11508</b>

\* Used to calculate Total Rehab Footage



## PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2021 to May 31, 2022

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
<b>2021</b>							
July	88,857	1,558	0	88,857	24,368	1,600	21,884
August	104,500	972	610	105,110	32,703	347	26,520
September	57,013	996	1,608	58,621	24,916	4,265	23,383
October	65,871	967	2,250	68,121	22,498	0	0
November	51,867	1,863	2,647	54,514	16,570	917	0
December	65,031	2,411	2,225	67,256	21,251	850	0
<b>2022</b>							
January	40,421	1,636	2,180	42,601	13,595	50	0
February	75,546	1,660	3,145	78,691	18,857	600	0
March	121,513	2,060	5,992	127,505	21,087	766	0
April	54,379	1,335	3,083	57,462	20,631	0	0
May	32,530	1,101	1,664	34,194	22,222	50	1,012
<b>Grand Total:</b>	<b>757,528</b>	<b>16,559</b>	<b>25,404</b>	<b>782,932</b>	<b>238,697</b>	<b>9,445</b>	<b>72,799</b>
<b>Avg Per Month:</b>	<b>68,866</b>	<b>1,505</b>	<b>2,309</b>	<b>71,176</b>	<b>21,700</b>	<b>859</b>	<b>6,618</b>



## CUSTOMER SERVICE REQUESTS

### Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
<b>DAY 1ST RESPONDER</b>				
	July, 2021	89	33	39
	August, 2021	112	30	31
	September, 2021	80	26	38
	October, 2021	99	27	38
	November, 2021	100	30	34
	December, 2021	99	28	37
	January, 2022	97	47	34
	February, 2022	122	31	35
	March, 2022	146	31	38
	April, 2022	126	30	34
	May, 2022	101	27	33
		<b>1,171</b>	<b>31</b>	<b>35</b>
<b>NIGHT 1ST RESPONDER</b>				
	July, 2021	40	29	29
	August, 2021	37	35	25
	September, 2021	36	29	24
	October, 2021	28	41	40
	November, 2021	30	23	33
	December, 2021	43	26	27
	January, 2022	30	35	30
	February, 2022	36	38	26
	March, 2022	40	28	31
	April, 2022	27	24	40
	May, 2022	39	32	38
		<b>386</b>	<b>31</b>	<b>31</b>
<b>ON-CALL CREW *</b>				
	July, 2021	24	64	51
	August, 2021	20	47	36
	September, 2021	24	53	31
	October, 2021	24	43	47

\* On-Call Crew Hours: 8:00pm-7:30am (Jul. - Oct.) 11:30pm-7:30am (from Nov. onward) Monday-Friday, Weekends, and Holidays



## CUSTOMER SERVICE REQUESTS Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE REPSONSE TIME	AVERAGE TIME SPENT
<b>ON-CALL CREW *</b>				
	November, 2021	27	45	46
	December, 2021	50	53	36
	January, 2022	44	50	39
	February, 2022	37	42	35
	March, 2022	31	59	32
	April, 2022	29	49	49
	May, 2022	37	50	43
		<b>347</b>	<b>51</b>	<b>40</b>
<b>Grand Totals:</b>		<b>1,904</b>	<b>34</b>	<b>35</b>

\* On-Call Crew Hours: 8:00pm-7:30am (Jul. - Oct.) 11:30pm-7:30am (from Nov. onward) Monday-Friday, Weekends, and Holidays

## *Right of Way Section 4th Quarter Summary Open Projects*

<i>Project</i>	<i>Total ROW Budget</i>	<i>Total Expends to Date</i>	<i>Comment</i>
Albemarle Commons Pump Station Elimination	\$22,298	\$760	Access 50% complete with 3% of Total Budget expended to date.
Aurora Drive GSR	\$29,761	\$11,627	Project 100% complete with 39% of Total Budget expended and no condemnations.
Caledonia Road GSR	\$99,460	\$300	Access 67% complete with .3% of Total Budget expended to date.
Cherokee Road GSR	\$142,404	\$39,806	Access 71% complete with 28% of Total Budget expended to date. Community-wide opposition to the project. Four condemnations anticipated.
Christian Creek Interceptor	\$100,477	\$85,427	Access 100% complete with 85% of Total Budget expended to date. Two condemnations filed. One case closed by Default Judgment. One case pending with Regal Hospitality.
Elk Mountain Place GSR	\$153,253	\$41,064	Access 43% complete with 27% of Total Budget expended to date.
Wynne Street @ Mountain Street GSR	\$23,632	\$5,509	Access 17% complete with 23% of Total Budget expended to date.



**CAPITAL IMPROVEMENT PROGRAM**

**STATUS REPORT SUMMARY**

**July 13, 2022**

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
CHRISTIAN CREEK INTERCEPTOR	Buncombe County	Buckeye Bridge LLC	12/15/2021	3/14/2022	7/7/2023	\$5,938,455.00	2%	Boring contractor working on bore pit. Plan to start on the bore under I-40 at the end of the week. Contractor beginning to clear ROW.
MOUNTAINBROOK ROAD @ CHUNNS COVE ROAD	Asheville 28805	Terry Brothers Construction Company	1/19/2022	1/20/2022	6/30/2022	\$900,810.00	100%	Complete and in close out.
SPRINGSIDE ROAD @ OVERLOOK ROAD	Asheville 28803	Huntley Construction Company	5/19/2021	9/23/2021	8/1/2022	\$836,550.16	90%	Construction is progressing.
TOXAWAY STREET	Asheville 28806	TBA	TBA	TBA	TBA	TBA	0%	Project bid on June 30th. To be presented for award at July's Board meeting.
WRF - EQUIPMENT STORAGE FACILITY	Woodfin	Cooper Construction Company	10/20/2021	3/28/2022	3/28/2023	\$3,008,962.18	10%	Contractor has set structural steel for the storage building and basement area; piers are complete. Miscellaneous concrete demo in progress.
WRF - INCINERATOR ASH LAGOON RESTORATION, PHASE 1	Woodfin	Chonzie, Inc.	12/15/2021	1/18/2022	8/31/2022	\$473,914.06	90%	Clean-up underway.
WRF - INCINERATOR ASH LAGOON RESTORATION, PHASE 2	Woodfin	Chonzie, Inc.	3/9/2022	3/10/2022	8/31/2022	\$241,113.31	90%	Repairing damaged ash line. Clean up and mulching to be done.
WRF- PLANT HIGH RATE PRIMARY TREATMENT	Woodfin	Shook Construction Company	10/17/2018	1/7/2019	8/31/2022	\$15,319,516.52	99%	Contractor's subs continue working on punch list.
WRF - RBC SLIDE GATE REPLACEMENT PHASE 1	Woodfin	IPC Structures	10/20/2021	3/24/2022	10/20/2022	\$300,938.99	0%	Site review in progress.

**\*Updated to reflect approved Change Orders and Time Extensions**

