

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT

July 17, 2019

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 17, 2019. Vice-Chairman Kelly presided with the following members present: Ashley, Bryson, Manheimer, Pelly, Pennington, Pressley, Valois, Watts and Whitesides. VeHaun and Wisler were absent.

Others present were: Thomas E. Hartye, PE, General Manager; William Clarke, General Counsel; Forest Westall with McGill Associates; Glendon Fetterolf and Jon Lapsley with CDM Smith; Shane Herbert and Chris Britton with Buckeye Bridge, LLC; Marcus Jones with Cane Creek Water & Sewer District; Joseph Martin with Woodfin Sanitary Water and Sewer District; Ed Bradford, Hunter Carson, Peter Weed, Mike Ball, Ken Stines, Scott Powell, Roger Edwards, Matthew Walter, Pam Thomas, Mike Stamey, Darin Prosser, Spencer Nay and Pam Nolan, MSD.

2. Election of Officers:

Mr. Kelly asked Mr. Clarke to chair the meeting for the election of Chair and Vice Chair. Mr. Clarke 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. Clarke called for a motion that nominations be closed. Mr. Kelly moved and Mr. Pelly seconded. Mr. Clarke called for a vote that, by acclamation, Mr. VeHaun be elected as Chair of the MSD Board for 2019-2020. Voice vote in favor of the motion was unanimous.

Mr. Clarke called for nominations for Vice Chair of the MSD Board. Ms. Bryson nominated Mr. Kelly. Mr. Pelly seconded the nomination. Mr. Clarke called for further nominations. With no further nominations, Mr. Clarke called for a motion that nominations be closed and that, by acclamation, Mr. Kelly be elected as Vice Chair of the MSD Board for 2019-2020. Mr. Watts made the motion. Mr. Whitesides seconded the motion. Voice vote in favor of the motion was unanimous.

Mr. Kelly stated that Mr. VeHaun was in favor of re-appointing Ms. Bryson as Secretary/Treasurer of the MSD Board for 2019-2020 and called for a voice vote. Voice vote in favor of the re-appointment was unanimous.

3. Inquiry as to Conflict of Interest:

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

4. Approval of Minutes of the June 12, 2019 Board Meeting:

Mr. Kelly asked if there were any changes to the Minutes of the June 12, 2019 Board Meeting. Mr. Watts 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. Informal Discussion and Public Comment:

Mr. Kelly welcomed Glendon Fetterolf and Jon Lapsley with CDM-Smith and Shane Herbert and Chris Britton with Buckeye Bridge, LLC. There was no public comment.

7. Report of General Manager:

Mr. Hartye reported that attached is the latest version (4) of House Bill 758 which is currently before the Governor for his signature. This last version added an unrelated study to be performed, independent of this process, by the Department of Agriculture. Mr. Hartye stated that he fully expects this to be signed into law soon and would recommend that the Planning Committee convene to go over the steps involved in this merger process, the timing, and MSD's obligations. Staff will begin working on the merger analysis study in the next several months and would like to bring that back to both Planning and Finance Committees prior to the MSD Board submitting it to the EMC. There were no questions.

Mr. Hartye reported that Jon Lapsley with CDM-Smith will give a brief presentation of the findings and recommendations of the Preliminary Engineering Report (PER) for the MSD interceptors and the largest regional pump station at Carrier Bridge. These facilities serve as the backbone to the collection system. This study has a planning horizon of 50 Years (2070). Staff has been working closely with CDM-Smith and has incorporated the recommended improvements that Mr. Lapsley will be discussing. The "Near Term" and "Mid Term" improvements have been incorporated into the recently adopted 10-year CIP. He then turned the meeting over to Mr. Lapsley. Mr. Lapsley thanked Mr. Hartye and the Board Members for the opportunity to speak. He stated that this is a project that looks specifically in detail at the components of the collection system. It builds heavily on a study that CDM-Smith completed in early 2000 which developed a working hydraulic model of the system which is a tool that Staff uses to evaluate what's happening in the collection system and how to plan for future growth within the system. CDM-Smith built heavily on the District's GIS information system and flow monitoring data. Staff collects and maintains this data, such as rain information and other data sources, which is hugely valuable in studies such as this. Flow projections and a 50 year planning horizon was a major goal of this study to be sure there was a very clear path on where to head to support growth within the MSD service areas, specifically focusing on the large diameter interceptors along the Swannanoa River, South French Broad and the main stem of the French Broad that runs past the treatment plant, as well as the Carrier Bridge Pump Station. The first step in a project like this is to look at flow projections and how growth and development will occur in the service area and outside the bounds of the current service area. CDM-Smith looked at many sources including data from metropolitan planning organizations, land use plans from individual municipalities and growth trend statistics. This helped to determine where flow is

headed long term, both for the customers within the service area, as well as industrial components. Another major component is how wet weather events impact the operation of the sanitary sewer collection system. There is more flow coming into the system when it rains and the infrastructure needs to be sized to handle those events. There was much discussion with Staff in terms of sizing the selection of a storm event. The 2-year storm recurrence event was selected, which is typical for a utility the size of MSD and is similar to selections made by other utilities across the southeast. Mr. Pelly asked if the 2-year storm event was the largest storm expected within 2 years. Mr. Lapsley stated that it is the largest 2-year, 24-hour storm expected by looking at rainfall data in the area. The next step of the process is to make sure that the model mentioned earlier is accurately reflecting what is being seen today. This model is updated with flow monitoring data that Staff has collected over the past 10 years. CDM-Smith worked closely with Staff to determine if what was seen in the model is what was actually experienced. This model can be used to identify deficiencies as well as to test alternatives on how to correct or improve over time. Getting the model set up and making sure that it is accurately reflecting reality is a major part of this exercise. The next step is to look at where the deficiencies are and what needs to be done to correct them. He presented a map showing the current system which has no deficiencies in dry weather and functions very well. During wet weather you start to see deficiencies due to restrictions in the interceptors and large pump stations. Those deficiencies occur primarily on the South French Broad Interceptor which comes from Hominy Creek down through the Biltmore Estate down to the French Broad park, where the Swannanoa River and French Broad River come together. There are some bottle neck isolated deficiencies along the Swannanoa River Interceptor. There are also deficiencies and incapacities within the Carrier Bridge Pump Station due to wet weather and the need to be able to support growth within the service area. Moving downstream from this area there are restrictions with the interceptor that carries flow to the plant. These issues are confined to the largest diameter interceptors but those are the largest pipes and the most complicated and costly to replace. The next step in the process is to come up with a series of right sized and economic solutions. Different strategies were looked at, one of those being sewer rehabilitation. MSD implements many projects during the year to rehabilitate existing sanitary sewer systems which has paid great dividends by reducing the number of SSO's. With the larger diameter pipe, it becomes much more costly and difficult to implement that type of a strategy with not as much a return on the investment. Similar strategies were looked at with an ultimate combination of recommendations including equalizing wet weather. Building storage tanks out in the collection system to capture that peak event that happens in the highest intensity of rain, upsizing pipes with larger diameter pipes, and replacing the Carrier Bridge Pump Station are recommendations. Flow equalization temporarily retains a peak flow event, holding the flow for a period less than 48 hours to help minimize the potential for odors and other maintenance issues that can come about by holding untreated wastewater for long periods of time. This was an alternative that was explored in the 2001 study with a recommended storage volume of almost 30 million gallons. Through efforts of the District completing projects over the last 17-18 years, that number has reduced significantly down to a total of about 13.5 million gallons. He reported that time was spent as part of this study looking at candidate sites for equalization tanks.

These sites are scattered throughout the system, primarily on the Swannanoa River Interceptor. This provided the most opportunities to look for the necessary sized piece of land that is in proximity to the interceptors and would be available for a use such as this. A lot of effort went into evaluating those candidate sites and ultimately resulted in three preferred options. Staff is having ongoing discussions regarding these sites. A storage tank with capacity of approximately 8 million gallons is planned for one of the top two sites, either Hardesty Lane or Simpson Street. A long-term storage project of approximately 5 million gallons is planned around the AB-Tech area. Lots of discussion still must happen to be able to acquire the land and move the projects forward. The Carrier Bridge Pump Station has been in place since 1966 and has provided a long and beneficiary use to MSD. By the time it is replaced it will be well over 50 years old. There have been numerous projects done to retrofit, expand and extend the life of this pump station, unfortunately it is time to replace it. It is a large facility so siting poses challenges in order to make sure it can accommodate both near term and long-term needs. The option to eliminate the facility and go to gravity was considered. This would reduce equipment maintenance and power consumption but ultimately did not prove viable. Mr. Hartye pointed out that the pump station doesn't look that big but it is approximately 30 feet deep with 3 floors. Mr. Lapsley stated that the pump station will be replaced and presented a snapshot of what the new facility might look like compared to the existing one. The current design vs. the one from 1966 is obviously very different. The new facility will have a larger footprint. From a capacity stand point this facility is very important. It carries all the flow across the French Broad River and ultimately to the treatment plant. This pump station has approximately 22 mgd pumping capacity. When the project is implemented, the near-term capacity will increase by approximately 50% or 34 mgd with a well thought out plan of how to get to 40 mgd or greater, which will support the long-term goal of getting to 2070 and a 50-year life out of the infrastructure. There was discussion regarding when this project will be coordinated with the City of Asheville and discussion regarding better odor control with the new facility. Mr. Lapsley stated that the new pump station, pipe to cross the French Broad River and the flow equalization facilities are targeted within the next 5-10 years. There was some discussion regarding the proposed location of the flow equalization facilities.

Mr. Hartye reported that there were kudos within his report.

Mr. Hartye reported that the next regular Board Meeting will be held on August 21st 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 28th at 9 am.

8. Hearing to Consider Forfeiture of Bid Security: Weaverville Force Main @ Plant Sewer Rehabilitation Project – Buckeye Construction Co., Inc.

Mr. Hartye reported that five bids were received for this project on June 27, 2019. The apparent low bidder was Buckeye Bridge, LLC. On July 1, 2019, Buckeye notified staff by the attached letter that a significant mathematical error,

approximately \$331,086.00, was made in computing their bid and that they would like to withdraw said bid. Pursuant to NCGS 143-129.1, once a bidder has withdrawn their bid, they can no longer be considered for the project. The only remaining issue is if their bid security is returned. NCGS 143-129.1 requires that a hearing be held in order that the contractor may formally present documentation showing their alleged error(s). Based upon the evidence presented at the hearing, the Board may or may not require forfeiture of Buckeye's Bid Security. The Board may allow withdrawal of the Bid from consideration without forfeiture of the Bid Security if all of the following conditions must be met: 1) The price bid was based upon a mistake, which constituted a substantial error; 2) The bid was submitted in good faith; 3) The bidder submits credible evidence that the mistake was clerical in nature as opposed to a judgment error; and 4) The mistake was actually due to an unintentional and substantial arithmetic error or an unintentional omission of a substantial quantity of work, labor, apparatus, supplies, materials, equipment, or services made directly in compilation of the bid that can be shown by objective evidence drawn from original work papers, documents, or materials used to prepare the bid. Attached is also documentation showing the mathematical error which appears to be in the hauling and light plants portion. Mr. Hartye noted as well that the other bidders were significantly higher as was the District's estimate. Since this is a 36" pipe the District also had an independent contractor submit an estimate beforehand, which was approximately \$2.4 million. Mr. Hartye stated that all the highlighted detail items were low items as compared to the other bidders so it appears that there is significant evidence an error was made. Mr. Hartye asked if Buckeye representatives would like to make any statements. Shane Herbert with Buckeye Bridge, LLC stated that he prepared the documents on an excel spreadsheet, which did not transfer and calculate properly, as shown on the attached sheet. Mr. Kelly asked Mr. Hartye if he agreed that this was a mistake and what is the recommendation. Mr. Hartye stated yes it does appear to be a mistake and, based on the evidence, Staff feels it warranted that Buckeye should be allowed to withdraw their bid. Mr. Kelly asked if the Board had any questions. There were none. Mr. Kelly stated that MSD was required to issue a written decision within 5 days. Mr. Kelly made the motion that Buckeye should not be required to forfeit its Bid Bond and that they be allowed to withdraw their Bid. Mr. Pelly seconded the motion. Roll call vote was as follows: 10 ayes; 0 Nays.

9. Consolidated Motion Agenda:

a. Consideration of Bids – Weaverville Force Main @ Plant Sanitary Sewer Rehabilitation Project:

Mr. Hartye reported that this project consists of 2,370 LF of 36-inch C-900 (plastic and corrosion proof) line to replace the 12-inch existing main. This line comes from the Weaverville Pump Station and serves all points north of the Treatment Plant. There has been a lot of hydrogen sulfide corrosion over the years resulting in SSO's. The project was advertised and five bids were received on June 27, 2019 as follows: Thomas Construction Company in the amount of \$3,666,585.00; Dillard Excavating Company in the amount of \$2,372,915.00; Cleary Construction, Inc. in the amount of \$2,222,136.00; Terry Brothers Construction Company in the amount of \$2,188,114.10; and

Buckeye Bridge, LLC in the amount of \$1,587,606.80, which was discussed in the previous item and withdrawn. The apparent low bidder is Terry Brothers Construction Company with a bid amount of \$2,188,114.10. Terry Brother has extensive history with the District and an excellent performance history. Staff recommends award of this contract to Terry Brothers Construction Company in the amount of \$2,188,114.10, subject to review and approval by District Counsel.

b. Consideration of Bids: Beaucatcher Rd. @ Kenilworth Rd (Phase 2) Sanitary Sewer Rehabilitation Project:

Mr. Hartye reported that this project is located in the Kenilworth area near Tunnel Road. MSD previously awarded a portion of this project in order to complete pipe rehabilitation in Kenilworth Road in advance of a City of Asheville paving project. This phase of the project consists of replacing six-inch Orangeburg line which is in poor structural condition with 1,004 LF of 8-inch DIP. The project was advertised and three bids were received on June 27, 2019 as follows: Buckeye Construction Company in the amount of \$444,334.00; Thomas Construction Company in the amount \$439,450.00; and Terry Brothers Construction Company in the amount of \$334,779.00. The apparent low bidder is Terry Brothers Construction Company with a bid amount of \$334,779.00. The FY 19-20 Construction Budget for this project is \$458,000.00. Staff recommends award of this contract to Terry Brothers Construction Company in the amount of \$334,779.00, subject to review and approval by District Counsel.

c. Consideration of Sole Source: Erwin Hills Pump Station Improvements:

Mr. Hartye reported that this pump station serves the area surrounding and including Erwin High School as well as various properties along New Leicester Highway. Due to growth in this area, the station must be upsized. The improvements to the pump station include replacing two of the four Gorman-Rupp pumps and a Blue Star generator. The Blue Star Generator is recommended because it utilizes "open source" software/controls and can be serviced by District staff or any competent electrical contractor. Other name brands use proprietary software systems and only the dealer network can be utilized for software maintenance, repair and programming which would result in a higher hourly cost. The FY 19-20 Construction Budget for this project is \$125,000.00. Staff recommends that the District sole-source procure the Gorman Rupp pumps, a 200 kW Blue Star Generator and installation for this project at a total cost of \$122,972.31, subject to review and approval by District Counsel.

d. Informational Item: Thickener Building MCC Replacement:

Mr. Hartye reported that the thickeners are part of the treatment process at the Water Reclamation Facility. They help thicken the sludge from the tanks before it is hauled away. The current thickener building Motor Control Center (MCC) was installed in 1988. The replacement MCC will be installed during

the incinerator shut down this coming winter. MB Haynes will be performing the work and they have a long performance history with MSD. MB Haynes submitted proposals for two preferred equipment suppliers: Allen-Bradley with a proposal of at \$71,116.00 and Eaton with a proposal of \$61,600.00. The prices both include installation costs. Eaton was the lowest proposal of the two and has provided excellent performance, parts availability (manufactured in Arden, NC) and technical service over the years. The FY 19-20 Construction Budget for this project is \$100,000.00. This item is provided for information only. No action is required.

e. Consideration of Purchase of Replacement Filter Cloth Media:

Mr. Hartye reported that the Filter Building at the Water Reclamation Facility was built in 2012. This system utilizes a special AquaDisk filter to remove solids prior to disinfection and discharge to the French Broad River. It is comprised of 16 filters in the building and has functioned very well over the years, keeping the solids really low. At the beginning of that time the system was running about 25 mg/l of solids and now it runs at about 7-10 mg/l going out. The cloth filters do wear out and must be periodically replaced. Staff has obtained a quote for six filters and there are funds in the FY 19-20 Plant Replacement Funds to cover these items. Staff recommends approval to purchase replacement filter cloth media from Aqua Aerobics Systems, Inc., in the amount of \$131,173.80.

f. Consideration of Developer Constructed Sewer Systems: Governor's Western Residence; Ingles No. 31 Smokey Park Sewer Extension:

Mr. Hartye reported that the Governor's Western Residence project is located off Patton Mountain Road and the developer is the State of North Carolina. The project included extending approximately 645 linear feet of 8-inch public gravity sewer to serve the Governor's Western Residence.

Mr. Hartye reported that the Ingles No. 31 project included a total of 1,964 new 8-inch public gravity sewer to serve the commercial development.

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

g. Cash Commitment/Investment Report Month ended May, 2019:

Mr. Powell reported that Page 54 presents the makeup of the District's Investment Portfolio. There has been no significant change in the makeup of the portfolio from the prior month. Page 55 presents the MSD's Investment Manager's report as of the month of May. The weighted average maturity of the investment portfolio is 140 days. The yield to maturity is 2.56%. Page 56 presents the analysis of the District's Cash Receipts. Monthly and YTD domestic and industrial sewer revenue are considered reasonable based on timing of cash receipts in their respective fiscal periods. YTD industrial sewer revenue is above historical trends due to a temporary increase in revenue from

one industrial user. YTD facility and tap fees are above historical trends due to the timing of 4 cash receipts from developers as well as these fees being budgeted conservatively. Page 57 is an 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 58 presents the MSD Variable Debt Service report. The 2008A Series refunding bond is performing at budgeted expectations. As of the end of June the issue has saved the District rate payers \$5.9 million in debt service since April, 2008. Mr. Kelly asked when does the last of the synthetic fixed rate bonds mature. Mr. Powell stated they mature in July, 2031.

With no further discussion, Mr. Kelly called for a motion to approve the Consolidated Motion Agenda. Mr. Pelly moved. Ms. Bryson seconded the motion. Roll call vote was as follows: 10 ayes; 0 Nays.

9. Old Business:

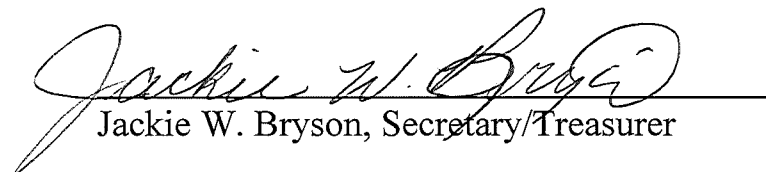
None.

10. New Business:

Ms. Bryson reported that the Personnel Committee met today prior to this Board Meeting to consider the evaluation of the General Manager. Mr. Hartye reviewed his 2019 goals and objectives and his accomplishments for the prior year. The Personnel Committee unanimously recommends the Board approve a 2.5% increase, or \$4,917.27, bringing Mr. Hartye's total new salary to \$201,608.05. This 2.5% is the increase Staff was approved for this year. Mr. Kelly called for a motion to approve the recommendation of the Personnel Committee. Ms. Bryson made the motion. Mr. Ashley seconded the motion. Roll call vote was as follows: 10 Ayes; 0 Nays.

11. Adjournment:

With no further business, Mr. Kelly called for adjournment at 2:47 pm.


Jackie W. Bryson, Secretary/Treasurer

MSD

Regular Board Meeting

Metropolitan Sewerage District
of Buncombe County, NC

AGENDA FOR 7/16/19

✓	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	2:15	
	03. Approval of Minutes of the June 12, 2019 Board Meeting	VeHaun	2:17	
	04. Discussion and Adjustment of Agenda	VeHaun	2:19	
	05. Informal Discussion and Public Comment	VeHaun	2:20	
	06. Report of General Manager	Hartye	2:25	
	07. Hearing to Consider Forfeiture of Bid Security: Weaverville Force Main @ Plant Sewer Rehabilitation Project – Buckeye Construction, Inc.	Hartye	2:35	
	08. Consolidated Motion Agenda	Hartye	2:55	
	a. Consideration of Bids: Weaverville Force Main @ Plant	Hartye		
	b. Consideration of Bids: Beaucatcher Rd @ Kenilworth Rd	Hartye		
	c. Consideration of Sole Source: Erwin Hills Pump Station Improvements	Hartye		
	d. Informational Item: Thickener Building MCC Replacement	Hartye		
	e. Consideration of Purchase of Replacement Filter Cloth Media	Hartye		
	f. Consideration of Developer Constructed Sewer Systems – Governor’s Western Residence; Ingles No. 31 Smokey Park Sewer Extension	Hartye		
	g. Cash Commitment Investment Report-Month ended May, 2019	Powell		
	09. Old Business:	VeHaun	3:05	
	10. New Business:	VeHaun	3:10	
	11. Adjournment: (Next Meeting 8/21/19)	VeHaun	3:15	
	STATUS REPORTS			

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
June 12, 2019

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 2019-2020 was held in the Boardroom of MSD's Administration building at 2:00 pm Wednesday, June 12, 2019. Vice-Chairman Kelly presided with the following members present: Ashley, Bryson, Manheimer, Pelly, Pennington, Pressley, Valois, Watts, Whitesides and Wisler. VeHaun was absent.

Others present were: William Clarke, General Counsel; Forest Westall with McGill Associates; Marcus Jones with Cane Creek Water & Sewer District; Joseph Martin with Woodfin Sanitary Water & Sewer District; Ed Bradford, Ken Stines, Jim Hemphill, Scott Powell, Peter Weed, Hunter Carson, Mike Stamey, Julie Willingham, Matthew Walter, Spencer Nay and Pam Nolan, MSD.

Mr. Kelly reported that Nathan Pennington has been appointed to the MSD Board to represent Buncombe County effective at this meeting. He presented Mr. Pennington with a manhole hook and welcomed him to the Board.

2. Inquiry as to Conflict of Interest:

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

3. Approval of Minutes of the May 15, 2019 Board Meeting:

Mr. Kelly asked if there were any changes to the Minutes of the May 15, 2019 Board Meeting. Mr. Watts moved for approval of the minutes as presented. Mr. Whitesides seconded the motion. Voice vote in favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

None.

5. Informal Discussion and Public Comment:

Mr. Kelly welcomed Mr. Jones and Mr. Martin. There was no public comment.

Mr. Kelly reported that Mr. Bradford is filling in for Mr. Hartye in his absence and turned the meeting over to him.

6. Report of General Manager:

On behalf of Staff, Mr. Bradford welcomed Mr. Pennington to MSD.

Mr. Bradford reported that attached is a letter from Harry J. Petrequin of Rhododendron Avenue in Black Mountain, commending Eric Bryant for his prompt and thorough performance.

Mr. Bradford thanked all the MSD employees who took part in the annual river clean-up on May 24th. It was both very hot and very successful. Special thanks to Sandra Moore who headed up the effort.

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

Mr. Bradford reported that the next regular Board Meeting will be held on July 17th at 2 pm. The June Right of Way Committee Meeting has been cancelled. The next Right of Way Committee Meeting will be held on July 24th at 9 am.

7. Report of Committees:

a. Right of Way Committee – May 22, 2019

Mr. Kelly reported that the Right of Way Committee met on May 22, 2019 and made recommendations, all of which are routine and included in this Board package. There were no questions.

8. Consolidated Motion Agenda:

a. Consideration of RFP's – Jarnaul Avenue GSR:

Mr. Bradford reported that this project is located in the Newbridge area of Asheville, around Beaver Lake. MSD will replace about 4,600 LF of 6-inch clay lines. The project is not huge but very congested with 38 properties to cross. Requests for easement acquisition services were sent to three utility services consultants and two responded. TELICS has the lowest proposal with a not to exceed cost of \$85,500.00 for 38 parcels. TELICS has previously acquired projects for MSD and their work has been excellent. Committee recommendation is to accept Staff's recommendation of award of this contract to TELICS in the not to exceed cost of \$85,500.00 for 38 parcels and a per parcel cost of \$2,250.00 for additional parcels over 38, subject to review and approval by District Counsel.

b. Consideration of Compensation Budget – Jarnaul Avenue GSR:

Mr. Bradford reported that the Compensation Budget is based on current ad valorem tax values and follows the MSD approved formula. Committee recommendation is to approve Compensation Budget.

c. Consideration of Developer Constructed Sewer Systems: Dillingham Woods Sewer Extension; Weatherwood Subdivision Sewer Extension:

Mr. Bradford reported that the Dillingham Woods Sewer Extension is located off Dillingham Road in the City of Asheville and included extending approximately 970 linear feet of 8-inch public gravity sewer to serve the 22-unit townhome development.

Mr. Bradford reported that the Weatherwood Subdivision project is located off Clayton Road in Buncombe County, behind Biltmore Baptist Church. The project included extending approximately 678 linear feet of 8-inch public gravity sewer to serve the 19-unit single family residential development.

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

d. Consideration of MSD Paving Agreement with the City of Asheville:

Mr. Bradford reported that this item is brought to the Board each year and is for small asphalt and concrete patching operations, 300 SF or less, within the City Limits of Asheville. This restoration is a result of District in-house maintenance and rehabilitation activities on the public sewer system. Larger projects and resurfacing in the City are bid on a per project basis, this is only for smaller repairs. This is an annually renewing agreement and was originally approved by the MSD Board on June 12, 2013. For FY20, the District's monetary contribution for this agreement is \$400,114.00. This is based on usage over the past 3 years and is a reduction from the current FY19 amount of \$440,000.00. The FY20 budget estimate for this item is \$400,114.00. Funding is provided in the FY20 System Services CIP Construction budget. This item is provided for information only, no action is required.

e. Consideration of Non-City of Asheville Road ROW Paving Restoration Contract:

Mr. Bradford reported that this annual contract is for the restoration of roads, driveways and sidewalks resulting from District maintenance activities for areas outside of City limits. These activities are both planned (new connections or small repairs) and unplanned emergency repairs. This is similar to the contract in Item d. in many ways except that it is for outside of City Limits of Asheville. The contract was advertised and awarded to French Broad Paving Inc. at the June 13, 2018 Board meeting in the amount of \$418,217.50, with an option to renew. French Broad Paving Inc. has performed well and they have agreed to hold all contract terms the same for FY20, including pricing. The FY20 System Services CIP Construction budget includes appropriate funding for this item. This item is provided for information only, no action is required.

f. Renewal of Contract FY20 - Calcium Nitrate Solution for Odor & Sulfide Control:

Mr. Bradford reported that MSD has been using a calcium nitrate solution to control hydrogen sulfide formation in the South French Broad Interceptor. Hydrogen sulfide is converted into sulfuric acid by bacteria that are naturally present in the system which causes deterioration to pipes and concrete over time. The contract was advertised last year and awarded to Evoqua at the June 13, 2018 Board meeting for \$1.99/gallon with an option to renew. Evoqua has been a supplier of calcium nitrate solution to MSD in previous years, including this current fiscal year. Staff is comfortable with both the quality of the chemicals and customer service provided by Evoqua. Evoqua has agreed to hold all contract terms the same for FY20, including pricing, so Staff intends to renew this contract. This is a Unit Price Contract. Based on an estimated use of 90,000 gallons at \$1.99/gallon, the annual expenditure is anticipated to be \$179,100.00 and is within levels budgeted by the WRF. This item is provided for information only, no action is required.

g. Consideration of Bids – Sodium Hypochlorite Contract FY20:

Mr. Bradford reported that the treatment plant is required to disinfect effluent prior to discharge to the French Broad River. Liquid sodium hypochlorite is used for this purpose, which is basically the same as household bleach, just much stronger. Current contracted cost for Sodium Hypochlorite is \$0.66/gallon. Bids were emailed to four vendors and an advertisement placed on the MSD web site in April 2019. Three bids were received and the bid opening was held on May 16, 2019. One bid was rejected due to not meeting specifications. Oltrin was the lowest bidder at \$0.74/gallon. They have been a supplier of Sodium Hypochlorite to MSD in previous years and MSD feels comfortable with both the quality of chemicals and customer service. Oltrin will hold this price for one year regardless of market fluctuations. This is a unit price contract and based on historical use, FY20 expenditures for Sodium Hypochlorite are anticipated to be \$148,000.00, which is within the levels budgeted by the WRF. Staff recommends that the Board award the contract for the supply of Sodium Hypochlorite to Oltrin at a unit price of \$0.74 per gallon.

h. Amendment to Standby Bond Purchase Agreement:

Mr. Bradford reported that the District has Series 2008A revenue refunding bonds. This is a variable rate debt series and requires a standby bond purchase agreement. He then turned the meeting over to Mr. Powell.

Mr. Powell reported that because the District has 2008A Series revenue refunding bonds with variable rate debt, the District has to have a Standby Bond Purchase Agreement. A Standby Purchase Agreement is an agreement with a third party, typically a bank, in which the bank agrees to purchase our variable rate debt tendered for purchase in the event the bonds cannot be remarketed. Staff engaged First Tryon Advisors to investigate the SBPA market and look at rate and terms. First Tryon Advisors was able to negotiate the current

agreement down from .40% to a .36% rate and an extension to July 2022 with its current provider, Wells Fargo NA. The District will spend approximately \$5,000.00 in advisory fees and \$3,500.00 in legal fees but will save approximately \$35,000.00 over the life of the agreement.

i. Cash Commitment Investment Report – Month ended April, 2019:

Mr. Powell reported that Page 37 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 38 presents the MSD investment managers report for the month of April. The weighted average maturity of the investment portfolio is 140 days. The yield to maturity is 2.48%. Page 39 presents the District's analysis of cash receipts. Monthly and YTD Domestic and Industrial sewer revenue are considered reasonable based on timing of cash receipts in their respective fiscal periods. YTD Industrial sewer revenue is above historical trends due to a temporary increase in revenue from one industrial user. YTD facility and tap fees are above historical trends due to the timing of 4 cash receipts from developers as well as these fees being budgeted conservatively. Page 40 presents the District's analysis of 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 year to year. Based on the current variable interest rates, debt service expenditures are considered reasonable. Due to the nature and timing of capital projects, YTD expenditures can vary year to year. Based on the current outstanding capital projects, YTD capital project expenditures are considered reasonable. Page 41 presents MSD's 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 approximately \$5.9 million in debt service since April, 2008.

With no further discussion, Mr. Kelly called for a motion to approve the Consolidated Motion Agenda. Mr. Pelly moved. Ms. Bryson seconded the motion. Roll call vote was as follows: 11 ayes; 0 Nays.

9. Public Hearing: Consideration of Resolution Adopting the Final Budget for FY 19-20 and Schedule of Sewer Rates and Fees:

MINUTES OF PUBLIC HEARING

Mr. Kelly announced the opening of the Public Hearing at 2:20 pm.

Mr. Powell reported that the numbers included in the Proposed Budget are the same as in the Proposed Final Budget. Page 47 presents the Flow of Funds Chart which is a graphical representation of the Budget Resolution. The Proposed Final Budget for FY20 is \$57,702,846.00 and incorporates the following:

- 2.5% domestic rate increase.
- \$0.81 increase in the average single-family monthly bill.

- The average monthly bill will go from \$31.36 to \$32.17.
- Continuation of the Industrial Rate Parity Plan.
 - MSD is in year 20 of 20.
 - 4.0% average increase for the industrial section
- No change in Sewer System Development Fees and Sewer Connection Fees in accordance with staff recommendation.
- 2.25% rate of return on investments.
- 3.75% increase in Salaries and Benefits which has an approximate impact of \$516,386.00. Includes Personnel Committee recommendations as to Salary Adjustments, Self-Insurance Funding and GASB 75 OPEB Funding as well as State required Retirement contribution and unemployment funding.
- 1.90% increase in Materials supplies and service which has an impact of \$124,536.00.
- This year's construction budget is slated to be \$29.9 Million.

Mr. Powell reported that the final item included is the Schedule of Rates and Fees. He then asked if there were any questions. There were none.

Mr. Kelly called for public comment on the proposed Budget, Rates and Fees for FY 2019-2020. There were none. Mr. Kelly then closed the public hearing at 2:22 pm.

With no discussion, Mr. Kelly called for a motion to approve the Resolution adopting the Final Budget for FY 2019-2020 and Schedule of Sewer Rates and Fees. Mr. Watts moved. Mr. Pelly seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays.

9. Old Business:

None.

10. New Business:

None.

11. Adjournment:

With no further business, Mr. Kelly called for adjournment at 2:24 pm.



MEMORANDUM

TO: MSD Board

FROM: Thomas E. Hartye, P.E., General Manager

DATE: July 12, 2019

SUBJECT: Report from the General Manager

- House Bill 758

Attached is the latest version (4) of House Bill 758 which is currently before the Governor for his signature. This last version has added an unrelated study to be performed, independent of this process, by the Department of Agriculture. I fully expect this to be signed into law very soon and would recommend that the Planning Committee convene to go over the steps involved in this merger process, the timing, and MSD's obligations. Staff will begin working on the merger analysis study in the next several months to be brought before both the Planning and Finance Committees prior to the MSD Board submitting it to the EMC.

- Presentation of Preliminary Engineering Report for MSD Interceptors and Carrier Bridge Pump Station

Jon Lapsley from CDM-Smith will give a brief presentation of the findings and recommendations of the Preliminary Engineering Report (PER) for the MSD interceptors and the largest regional pump station at Carrier Bridge. These facilities serve as the backbone to the entire sewer collection system. The planning horizon for this study was 50 years (2070). The consultant performed hydraulic modeling and developed recommendations to meet future growth demands as well as storm surge mitigation. Staff has been closely involved with this study and has already included the "Near Term" and "Mid Term" improvements in our recently adopted 10-year CIP.

- Kudos

- Timothy Abell of 379 Beaverdam Rd. called to say he was so impressed he was with the service he was given by Roy Lytle and crew. Thanks as well to Jamie Foxx, Grayson Hensley, Marvin Felder, and Jose Valladares.
- Terry from Wilshire Dr. called to commend the crews who installed the new lines and completed the paving. He said they did an excellent job and were very professional and polite. Thanks to Doug Dockery, Billy Cantrell, Boyce Lunsford Seth Honeycutt, and Robert Denny.

- Board/Committee Meetings/Events

The Personnel Committee will meet at 1:30 pm July 17th before the Regular Board Meeting. The next Regular Board Meeting will be held on August 21st at 2 pm. The July Right of Way Committee has been cancelled. The next Right of Way Committee meeting will be held on August 28th at 9am.

GENERAL ASSEMBLY OF NORTH CAROLINA
SESSION 2019

H

4

HOUSE BILL 758
Committee Substitute Favorable 4/29/19
Committee Substitute #2 Favorable 5/23/19
Senate Agriculture/Environment/Natural Resources Committee Substitute Adopted
6/27/19

Short Title: MSD Expansion and Governance/DACS Study.

(Public)

Sponsors:

Referred to:

April 16, 2019

1 A BILL TO BE ENTITLED
2 AN ACT TO EXPAND THE MEMBERSHIP OF CERTAIN METROPOLITAN SEWERAGE
3 DISTRICTS, AND TO DIRECT THE DEPARTMENT OF AGRICULTURE AND
4 CONSUMER SERVICES TO STUDY WILDLIFE ENHANCEMENT, INVASIVE
5 SPECIES CONTROL, AND NATIVE HABITAT RESTORATION ON PROPERTIES
6 MANAGED BY THE STATE.

7 The General Assembly of North Carolina enacts:

8 **SECTION 1.** Article 5 of Chapter 162A of the General Statutes is amended by
9 adding a new section to read:

10 **"§ 162A-68.5. Alternate procedure for inclusion of additional political subdivision.**

11 (a) Notwithstanding G.S. 162A-67 and G.S. 162A-68, any time subsequent to the
12 creation of a district, the district shall be expanded in accordance with this section to include
13 territory of a requesting county if the governing board of the county submits a resolution
14 requesting inclusion in the district and the county meets all of the following criteria:

15 (1) The county is contracting with the district for bulk service.

16 (2) The district has installed a sewage disposal system, sewerage system, sewers,
17 or any portion thereof, in that county.

18 (3) The district serves customers in that county as of the date of the resolution.

19 (b) Upon receipt of a resolution described in subsection (a) of this section, the district
20 board shall send to the Environmental Management Commission and the requesting county all
21 of the following:

22 (1) A map or maps of the district showing each of the following:

23 a. The present and proposed new boundaries of the district.

24 b. The existing sewage disposal system, sewerage system, and sewers.

25 c. Any proposed extension of the sewage disposal system, sewerage
26 system, sewer, including any sewer interceptors and outfalls.

27 (2) A description of any proposed extension of sewerage services to the
28 requesting county, which shall address all of the following:

29 a. Extension of sewerage service to the requesting county on
30 substantially the same basis and in the same manner as such services
31 are provided within the rest of the district prior to inclusion of the new
32 territory.



* H 7 5 8 - V - 4 *

- 1 b. A proposed time schedule for extension of sewerage service to the
2 requesting county.
- 3 c. The estimated cost of extension of sewerage service to the requesting
4 county; the method by which the district board proposes to finance the
5 extension; the outstanding existing indebtedness of the district, if any;
6 and the valuation of assessable property within the district and within
7 the requesting county.
- 8 (3) An analysis of the inclusion of the territory in the district.
- 9 (c) The Environmental Management Commission shall review the documents submitted
10 under subsection (b) of this section and shall, in conjunction with the requesting county, set a
11 time and place within the requesting county for a public hearing. The chair of the governing body
12 of the requesting county shall give prior notice of such hearing by posting a notice at the
13 courthouse door of the requesting county at least 30 days prior to the hearing and also by
14 publication at least once a week for four successive weeks in a newspaper or newspapers having
15 general circulation in the district and in the requesting county, the first publication to be at least
16 30 days prior to such public hearing.
- 17 (d) If, after the public hearing, the Environmental Management Commission determines
18 that the inclusion of the territory will not adversely affect customer service in the district and will
19 preserve and promote the public health and welfare of the district, the Environmental
20 Management Commission shall adopt a resolution expanding and defining the boundaries of the
21 district to include the territory in the district. Such resolution shall state an effective date of the
22 inclusion of the territory in the district.
- 23 (e) Any action or proceeding in any court to set aside a resolution of the Environmental
24 Management Commission, or to obtain any other relief upon the ground that such resolution or
25 any proceeding or action taken with respect to the inclusion of the requesting county within the
26 district is invalid, must be commenced within 30 days after the effective date of the resolution
27 adopted by the Environmental Management Commission. After the expiration of such period of
28 limitation, no right of action or defense founded upon the invalidity of the resolution or the
29 inclusion of the requesting county in the district shall be asserted, nor shall the validity of the
30 resolution or the inclusion of the requesting county be open to question in any court upon any
31 ground whatever, except in an action or proceeding commenced within such period.
- 32 (f) Any territory of the requesting county included within an existing district by
33 resolution of the Environmental Management Commission shall be subject to all debts of the
34 district.
- 35 (g) Upon inclusion in the district, the district board shall be expanded by two members,
36 who shall be qualified registered voters residing in the territory added to the district and appointed
37 by the governing body of the requesting county. The terms of office of the members appointed
38 under this subsection may be varied for a period not to exceed six months from the terms provided
39 for in G.S. 162A-67 so that the appointment of successors to such members may more nearly
40 coincide with the appointment of successors to members of the existing district board. All
41 successor members shall be appointed for the terms provided for in G.S. 162A-67.
- 42 (h) G.S. 162A-67(a)(4) and G.S. 162A-68 shall not apply to any expansion under this
43 section."

44
45 **DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES STUDY OF**
46 **STATE-MANAGED PROPERTIES**

47 **SECTION 2.(a)** The Department of Agriculture and Consumer Services' Plant
48 Industry Division shall study and report on wildlife enhancement, invasive species control, and
49 native habitat restoration on properties managed by the State. The Division shall include the
50 following in its study and report:

- 1 (1) The amount of funds and other resources dedicated by each State agency land
2 manager (including the Department of Natural and Cultural Resources, the
3 Wildlife Resources Commission, the Department of Environmental Quality,
4 and the Department of Agriculture and Consumer Services) to habitat
5 management for wildlife enhancement, including, but not limited to, invasive
6 species removal, prescribed burning, selective thinning, and native plant
7 restoration.
- 8 (2) The potential need for each State agency land manager for additional funding
9 or positions necessary to support wildlife enhancement, including invasive
10 species removal, prescribed burning, selective thinning, and native plant
11 restoration.
- 12 (3) Identification of existing federal funding sources for wildlife enhancement on
13 State-managed properties and missed match opportunities with State
14 resources.

15 **SECTION 2.(b)** The Department shall provide its report to the Joint Legislative
16 Oversight Committee on Agriculture and Natural and Economic Resources and the Fiscal
17 Research Division no later than April 1, 2020.

18 **SECTION 3.** This act is effective when it becomes law.

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

BOARD MEETING DATE: 7/17/19

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

REVIEWED BY: Billy Clarke, Esq. - District Counsel
Mike Stamey, P.E. - Director of Construction

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Owen Herbert, P.E. - Project Engineer

SUBJECT: Hearing to Consider Forfeiture of Bid Security: Weaverville Force Main @ Plant Sewer Rehabilitation Project - Buckeye Construction Co., Inc.

BACKGROUND: Five bids were received and opened on June 27, 2019 for this contract in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) Thomas Construction Co.	\$ 3,666,585.00
2) Dillard Excavating Co.	\$ 2,372,915.00
3) Cleary Construction, Inc.	\$ 2,222,136.00
4) Terry Brothers Const. Co.	\$ 2,188,114.10
5) Buckeye Bridge, LLC	\$ 1,587,606.80

Buckeye notified staff on July 1, 2019 that they made a mathematical error computing their bid, and will withdraw. Their letter is attached for reference.

A bidder who is bidding on a public project in North Carolina may withdraw their bid, without forfeiture of their bid security, provided that they meet all requirements of *NCGS 143-129.1* (attached). *Once a bidder has withdrawn their bid, they can no longer be considered for the project.* The only remaining issue is their bid security.

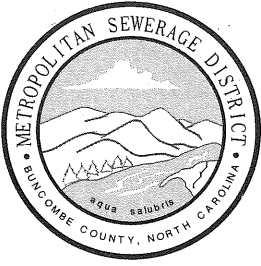
NCGS 143-129.1 requires that a hearing be held in order that the contractor may formally present documentation showing their alleged error(s). Based upon the evidence presented at the hearing, the Board may or may not require forfeiture of Buckeye's Bid Security.

The engineer's construction estimate was \$2,421,000.00.

Please refer to the attached documentation for further details.

FISCAL IMPACT: Buckeye's Bid Security is 5% of their bid amount, or \$79,380.34.

STAFF RECOMMENDATION: Staff recommends that the Board hold a hearing at its regular meeting on July 17, 2019 to consider forfeiture of Buckeye's Bid Security.



Metropolitan Sewerage District

OF BUNCOMBE COUNTY, NORTH CAROLINA

Mr. Michael F. Long, Managing Member
Buckeye Construction Company
654 Buckeye Cove Road
Canton, NC 28716

July 5, 2019

Re: MSD Board Hearing: Bid Withdrawal for Weaverville Force Main @ Plant Project

Dear Mr. Long

The Metropolitan Sewerage District of Buncombe Co., N.C. (MSD) is in receipt of your letter dated July 1, 2019 requesting to withdraw your Bid submitted on June 27, 2019.

Under North Carolina law, MSD may allow you to withdraw your Bid from consideration without forfeiture of your Bid security if all the following conditions are met:

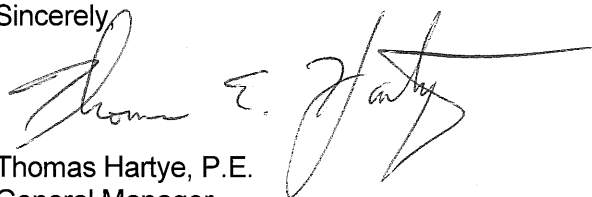
- The price bid was based upon a mistake, which constituted a substantial error;
- The bid was submitted in good faith;
- The bidder submits credible evidence that the mistake was clerical in nature as opposed to a judgment error; and
- The mistake was actually due to an unintentional and substantial arithmetic error or an unintentional omission of a substantial quantity of work, labor, apparatus, supplies, materials, equipment, or services made directly in compilation of the bid that can be shown by objective evidence drawn from original work papers, documents, or materials used to prepare the bid.

You are hereby notified that MSD has scheduled a hearing to discuss your bid withdrawal request at its regular Board meeting on **Wednesday, July 17, 2019 at 2:00 p.m.** The hearing will be held in the Board Room at the W. H. Mull Administrative Building, 2028 Riverside Drive, Asheville, NC 28804. As the bidder, either in person or through counsel, you may appear at the hearing and present any additional facts and arguments in support of your request to withdraw.

MSD shall issue a written ruling allowing or denying the request to withdraw within five days after the hearing. In the event of a denial of your request to withdraw, you have the right, within 20 days after receipt of the ruling, to contest the matter by filing a civil action in any North Carolina Court of competent jurisdiction.

Please contact Mr. Ed Bradford, P.E., Director of Engineering at MSD, at (828) 225-8261 should you have questions.

Sincerely,



Thomas Hartye, P.E.
General Manager

~Protecting Our Natural Resources~

BUCKEYE BRIDGE, LLC

July 1, 2019

Metropolitan Sewerage District of Buncombe Co.
Engineering Department
2028 Riverside Drive
Asheville, NC 28804

Attn: Charles N. Herbert III

**Re: Bid for MSD-Sanitary Sewer Replacement – Weaverville Force Main @ Plant
Project No. 2018259**

Dear Mr. Herbert:

Buckeye Bridge, LLC has reviewed our Bid submitted on June 28, 2019 on the above referenced project. Buckeye is formally requesting to withdraw its bid for consideration on the grounds that we have found a mathematical error in computing the unit price contract pursuant to NC General Statute 143-129.1.

We have found that the computation for the equipment didn't include the summation of the Trucking and Light Plants for the total cost for the Bid submitted an approximate difference of \$331,086.00

Should you have any question or concerns please feel free to give me a call at (828) 648-4511 Ext. 310.

Sincerely,

Buckeye Bridge, LLC



Michael F. Long
Managing Member

SWH/swh
Attachments

Crews

Assumed Crew		Per Hour	10 Hrs		
270 Trackhoe	1 EA	47.50	475.00		
J.D. 544 Loader	1 EA	41.50	415.00		
Tool Truck-Use	1 EA	25.00	250.00		
Bypass Pumps	1 EA	10.00	100.00		
Ditch Roller	1 EA	41.50	415.00		
Flat Bed Dump	1 EA	15.00	150.00		
Tand Dump	2 EA	85.00	1,700.00	Didn't Sum In Crew	
Light Plants	3 EA	25.00	750.00	Didn't Sum In Crew	\$2,450.00
Crew #1, Equip.		Per Day	1,805.00	Crew Days	115.898
	0	\$20/Day	0.00		\$283,950.10
		Total	1,805.00	Plus 6% Overhead	\$300,987.11
				Plus 10% Profit	\$331,085.82
Superintendent	0.50 EA	42.00	210.00		
Foreman	1 EA	36.00	360.00		
Operators	2 EA	20.00	440.00		
Laborer	2 EA	14.50	319.00		
Flagmen (optional)	2.0 EA	13.00	286.00		
Truck Driver	0 EA	16.00	0.00	1,615.00	
		Per Day	2,180.25		
		Out of Town			
			2,180.25		

MSD-Weaverville Force Main Sewer Rehabilitation		Bid Date	6/27/2019
No.	Crew	Labor	Equipment
1	270 Trackhoe-Sewer	2,180.25	1805.00
2	Mobilization	237.60	400.00
3	78 Trackhoe - Service	855.82	0.00
4	Silt Fence	534.60	150.00
5	Service Crew	435.70	225.00
6	Testing	507.65	185.00
7	Restoration Crew	429.00	310.00
8	Water Line Crew	1,079.61	600.00
		Contract Days: 240 @ \$300.00	

METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA

Weaverville Force Main @ Plant

Project No. 2018259

BID TABULATION

June 27, 2019

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$3,666,585.00
Dillard Excavating Company, Inc. Pelzer, SC	5%	1	Yes	\$2,372,915.00
Cleary Construction, Inc. Tompkinsville, KY	5%	1	Yes	\$2,222,136.00
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$2,188,114.10
Buckeye Bridge, LLC (*) Canton, NC	5%	1	Yes	\$1,587,606.80

APPARENT LOW BIDDER

(*) Contractor withdrew bid, citing a mathematical error.

Charles N. Herbert III, 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 2:30 p.m. on the 27th day of June, 2019, 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.

§ 143-129.1. Withdrawal of bid.

A public agency may allow a bidder submitting a bid pursuant to G.S. 143-129 for construction or repair work or for the purchase of apparatus, supplies, materials, or equipment to withdraw his bid from consideration after the bid opening without forfeiture of his bid security if the price bid was based upon a mistake, which constituted a substantial error, provided the bid was submitted in good faith, and the bidder submits credible evidence that the mistake was clerical in nature as opposed to a judgment error, and was actually due to an unintentional and substantial arithmetic error or an unintentional omission of a substantial quantity of work, labor, apparatus, supplies, materials, equipment, or services made directly in the compilation of the bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of the original work papers, documents or materials used in the preparation of the bid sought to be withdrawn. A request to withdraw a bid must be made in writing to the public agency which invited the proposals for the work prior to the award of the contract, but not later than 72 hours after the opening of bids, or for a longer period as may be specified in the instructions to bidders provided prior to the opening of bids.

If a request to withdraw a bid has been made in accordance with the provisions of this section, action on the remaining bids shall be considered, in accordance with North Carolina G.S. 143-129, as though said bid had not been received. Notwithstanding the foregoing, such bid shall be deemed to have been received for the purpose of complying with the requirements of G.S. 143-132. If the work or purchase is relet for bids, under no circumstances may the bidder who has filed a request to withdraw be permitted to rebid the work or purchase.

If a bidder files a request to withdraw his bid, the agency shall promptly hold a hearing thereon. The agency shall give to the withdrawing bidder reasonable notice of the time and place of any such hearing. The bidder, either in person or through counsel, may appear at the hearing and present any additional facts and arguments in support of his request to withdraw his bid. The agency shall issue a written ruling allowing or denying the request to withdraw within five days after the hearing. If the agency finds that the price bid was based upon a mistake of the type described in the first paragraph of this section, then the agency shall issue a ruling permitting the bidder to withdraw without forfeiture of the bidder's security. If the agency finds that the price bid was based upon a mistake not of the type described in the first paragraph of this section, then the agency shall issue a ruling denying the request to withdraw and requiring the forfeiture of the bidder's security. A denial by the agency of the request to withdraw a bid shall have the same effect as if an award had been made to the bidder and a refusal by the bidder to accept had been made, or as if there had been a refusal to enter into the contract, and the bidder's bid deposit or bid bond shall be forfeited.

In the event said ruling denies the request to withdraw the bid, the bidder shall have the right, within 20 days after receipt of said ruling, to contest the matter by the filing of a civil action in any court of competent jurisdiction of the State of North Carolina. The procedure shall be the same as in all civil actions except all issues of law and fact and every other issue shall be tried de novo by the judge without jury; provided that the matter may be referred in the instances and in the manner provided for by North Carolina G.S. 1A-1, Rule 53, as amended. Notwithstanding the foregoing, if the public agency involved is the Department of Administration, it may follow its normal rules and regulations with respect to contested matters, as opposed to following the administrative procedures set forth herein. If it is finally determined that the bidder did not have the right to withdraw his bid pursuant to the provisions of this section, the bidder's security shall be forfeited. Every bid bond or bid deposit given by a bidder to a public agency pursuant to G.S. 143-129 shall be conclusively presumed to have been given in accordance with this section, whether or not it be so drawn as to conform to this

section. This section shall be conclusively presumed to have been written into every bid bond given pursuant to G.S. 143-129.

Neither the agency nor any elected or appointed official, employee, representative or agent of such agency shall incur any liability or surcharge, in the absence of fraud or collusion, by permitting the withdrawal of a bid pursuant to the provisions of this section.

No withdrawal of the bid which would result in the award of the contract on another bid of the same bidder, his partner, or to a corporation or business venture owned by or in which he has an interest shall be permitted. No bidder who is permitted to withdraw a bid shall supply any material or labor to, or perform any subcontract or work agreement for, any person to whom a contract or subcontract is awarded in the performance of the contract for which the withdrawn bid was submitted, without the prior written approval of the agency. Whoever violates the provisions of the foregoing sentence shall be guilty of a Class 1 misdemeanor. (1977, c. 617, s. 1; 1993, c. 539, s. 1008; 1994, Ex. Sess., c. 24, s. 14(c); 2001-328, s. 2.)

Metropolitan Sewerage District of Buncombe County

BOARD ACTION ITEM

BOARD MEETING DATE: July 17, 2019

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

REVIEWED BY: Billy Clarke, Esq. - District Counsel

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Owen Herbert, P.E. - Project Manager

SUBJECT: Consideration of Bids: Weaverville Force Main @ Plant Sanitary Sewer Rehabilitation Project, MSD Project No. 2018259

BACKGROUND: This project is located adjacent to the MSD Treatment Plant, primarily along Riverside Drive. It consists of replacing a problematic 12-inch DIP force main that is in poor structural condition, which has caused multiple SSO's.

This line is part of the Weaverville Pump Station system, which serves all areas north of the Treatment Plant. These areas include the Town of Weaverville (in its entirety), the Reems Creek Valley, and portions of the Town of Woodfin. A newly added area will be the Lee Creek Basin (including the new Olivette development), which extends to New Leicester Hwy.

The line has failed primarily due to corrosion of the force main by hydrogen sulfide. The new line is 2,370 LF of 36-inch C-900 (plastic and corrosion-proof). It will drain by gravity from the hydroelectric plant entrance to the plant. This line will provide capacity for current flows and future development in all of these areas.

The construction contract was advertised and five bids were received on June 27, 2019 in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) Thomas Construction Co.	\$ 3,666,585.00
2) Dillard Excavating Co.	\$ 2,372,915.00
3) Cleary Construction, Inc.	\$ 2,222,136.00
4) Terry Brothers Const. Co.	\$ 2,188,114.10
5) Buckeye Bridge, LLC	\$ 1,587,606.80 (*)

(*) Contractor withdrew bid, citing a mathematical error.

The apparent low bidder is Terry Brothers Construction Co. with a bid amount of \$2,188,114.10. Terry Brothers has extensive history with District rehabilitation projects, and has an excellent performance history.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY19-20 Construction Budget for this project is \$2,421,000.00.

STAFF RECOMMENDATION: Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$2,188,114.10, subject to review and approval by District Counsel.

METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA

Weaverville Force Main @ Plant

Project No. 2018259

BID TABULATION

June 27, 2019

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$3,666,585.00
Dillard Excavating Company, Inc. Pelzer, SC	5%	1	Yes	\$2,372,915.00
Cleary Construction, Inc. Tompkinsville, KY	5%	1	Yes	\$2,222,136.00
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$2,188,114.10
Buckeye Bridge, LLC (*) Canton, NC	5%	1	Yes	\$1,587,606.80

APPARENT LOW BIDDER

(*) Contractor withdrew bid, citing a mathematical error.

Charles N. Herbert III, 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 2:30 p.m. on the 27th day of June, 2019, 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.

Interoffice Memorandum

TO: Tom Hartye, General Manager

FROM: Ed Bradford, Engineering Director
Owen Herbert, Project Manager

DATE: June 27, 2019

RE: Weaverville Force Main at Plant, MSD Project No. 2018259

The Weaverville Force Main at Plant project is located adjacent to the MSD Water Reclamation Facility. More specifically, the project begins 0.25 mile north of the intersection of Riverside Dr. (NC 251) and Elk Mountain Rd. (SR 1684) at the head manhole to the WRF and runs approximately 2,400 LF north on the west side of Riverside Drive to the entrance of MSD's Hydroelectric Plant entrance.

The existing 12-inch DIP force main is in very poor structural condition in this area due to corrosion, and has been the source of sanitary sewer overflows adjacent to the French Broad River. As a part of the replacement, it has been sized for future development within the large upstream drainage basins it serves. These include the Reems Creek, Lee Creek, and Newfound Creek basins.

The project consists of the replacement of existing 12-inch DIP sewer force main using traditional dig and replace methods with approximately 2,370 LF of 36-inch C-900 gravity main.

On June 27, 2019, five sealed bids were received at 2:30 pm. and the results were as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Thomas Construction Co.	\$ 3,666,585.00
2) Dillard Excavating Co.	\$ 2,372,915.00
3) Cleary Construction, Inc.	\$ 2,222,136.00
4) Terry Brothers Const. Co.	\$ 2,188,114.10
5) Buckeye Bridge, LLC	\$ 1,587,606.80 (Withdrawn)

Buckeye Bridge, LLC withdrew their bid, citing a large mathematical error in the amount of \$331,086.00. A hearing will be held at the July 17, 2019 regular board meeting to review Buckeye's withdrawal and consider release of their Bid Security.

The apparent low bidder is therefore Terry Brothers Construction Co. with a bid amount of \$2,188,114.10. The FY19-20 construction budget for this project is \$2,421,000.00. Terry Brothers has an extensive history completing District rehabilitation and replacement projects with excellent workmanship and quality.

Staff recommends award of this contract to Terry Brothers Construction Co., Inc. contingent upon review and approval by District Counsel.

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

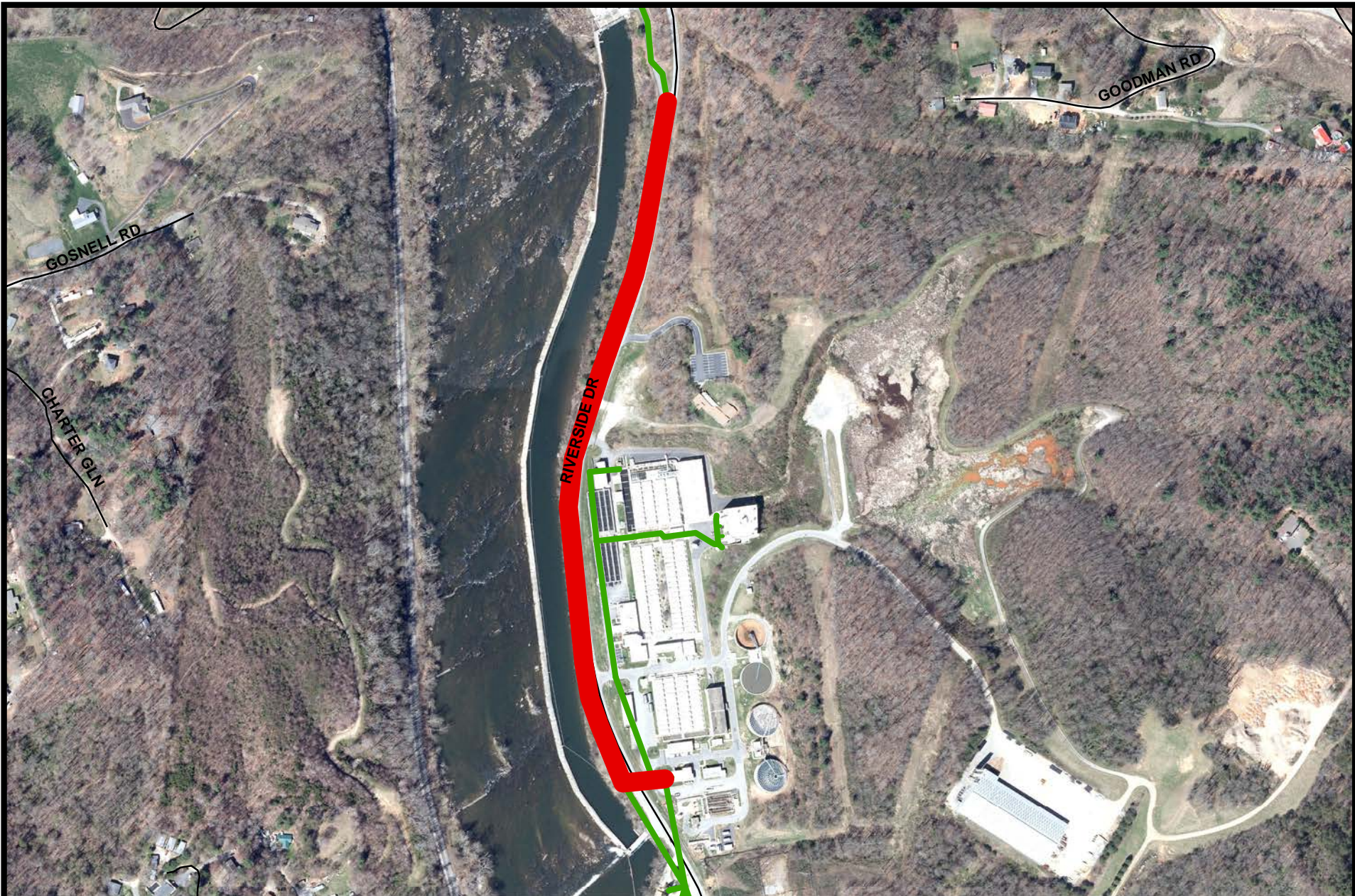
BUDGET DATA SHEET - FY 2019 - 2020

PROJECT:	Weaverville Force Main @ Plant	LOCATION:	Asheville
TYPE:	Interceptor Rehab.	PIPE RATING:	N/A
PROJECT NO.	2018259	TOTAL LF:	2,370
PROJECT BUDGET:	\$2,430,000.00	PROJECT ORIGIN:	Line Condition, New Development

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/18	EST. COST JAN - JUNE 2019	BUDGET FY 19-20
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$2,421,000.00			\$2,421,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$2,500.00			\$2,500.00
55450 - SURVEY - ASBUILT	\$6,500.00			\$6,500.00
TOTAL AMOUNT	\$2,430,000.00	\$0.00	\$0.00	\$2,430,000.00

ENGINEER:	MSD	OH	ESTIMATED BUDGETS - FY 21 - 29	
R.O.W. ACQUISITION:	MSD	# PLATS: [0]	FY 20-21	\$0.00
CONTRACTOR:			FY 21-22	\$0.00
CONSTRUCTION ADM:	MSD		FY 22-23	\$0.00
INSPECTION:	MSD		FY 23-24	\$0.00
			FY 24-25	\$0.00
			FY 25-26	\$0.00
PROJECT DESCRIPTION: This interceptor rehabilitation located along Riverside Dr. begins near MSD's Hydro Power Plant and ends at the head manhole at the Water Reclamation Facility. Due to the critical nature of the line, line condition, and the requirement to upsize for future capacity, MSD has placed this project in the FY 19-20 CIP.			FY 26-27	\$0.00
			FY 27-28	\$0.00
			FY 28-29	\$0.00

SPECIAL PROJECT NOTES:



**Weaverville Force Main at Plant
Project No. 2018259**

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 17, 2019

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

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Shaun Armistead, P.E. - Project Engineer

SUBJECT: Consideration of Bids: Beaucatcher Rd. @ Kenilworth Rd (Phase 2)
Sanitary Sewer Rehabilitation Project, MSD Project No. 2015219

BACKGROUND: This project is located in the Kenilworth area of Asheville, near Tunnel Road. MSD previously awarded Phase 1 of this project in order to complete pipe rehabilitation in Kenilworth Road in advance of a City of Asheville paving project.

The project consists of replacing a problematic six-inch Orangeburg line which is in poor structural condition. This has allowed root intrusion and triggered multiple SSOs. This Phase 2 totals 1,004 LF of 8-inch DIP.

The contract was advertised and three bids were received on June 27, 2019 in the following amounts:

<u>Contractor</u>	<u>Bid</u>
1) Buckeye Const. Co.	\$444,334.40
2) Thomas Const. Co.	\$439,450.00
3) Terry Brothers Const. Co.	\$334,779.00

The apparent low bidder is Terry Brothers Construction Co. with a bid amount of \$334,779.00. Terry Brothers has completed numerous MSD sewer rehabilitation projects, and their work quality has remained excellent to date.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY19-20 Construction Budget for this project is \$458,000.00.

STAFF RECOMMENDATION: Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$334,779.00, subject to review and approval by District Counsel.

METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA

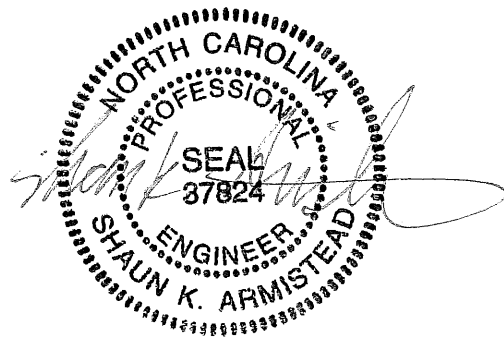
**Beaucatcher Road @ Kenilworth Road Phase 2
Project No. 2015219**

**BID TABULATION
June 27, 2019**

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
Buckeye Bridge LLC Canton, NC	5%	1	Yes	(*) \$444,334.40
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$439,450.00
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$334,779.00

APPARENT LOW BIDDER

(*) Indicates correction in Bidder's amount.



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 27th day of June, 2019, 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.

Interoffice Memorandum

TO: Ed Bradford, P.E., Engineering Director
FROM: Shaun Armistead, P.E., Project Manager
DATE: June 27, 2019
RE: Beaucatcher Rd @ Kenilworth Rd Sewer Rehabilitation (Phase 2)
Project # 2015219

This project is located in the Kenilworth area of Asheville, and is comprised of 1,590 LF (Phase 1 and Phase 2) of 8-inch ductile iron pipe. The existing line is aging six-inch Orangeburg pipe in poor condition with a large amount of root intrusion. This project has a relatively high Pipe Rating of 61 due to numerous manhole overflows and the project's proximity to Ross Creek on the lower end of the project.

A 586 LF portion of this project located in or near Kenilworth Road was previously bid for construction ahead of a city paving project on Kenilworth Road. The current Phase 2 comprises 1,004 LF, all within Beaucatcher Road.

Three bids were received on Thursday, June 27, 2019, as follows:

<u>Contractor</u>	<u>Bid</u>
1) Buckeye Construction Co.	\$444,334.40
2) Thomas Construction Co.	\$439,450.00
3) Terry Brothers Construction Co.	\$334,779.00

The construction budget for this project is \$458,000.00. Major differences between the budget estimate and bid pricing were in the mobilization (\$4,000), milling and paving (\$46,930), and pipeline costs (\$63,204).

Terry Brothers Construction Company is the apparent low bidder for this contract with a bid amount of \$334,779.00. District Staff has had extensive experience with Terry Brothers Construction, and they have proven themselves to be competent contractors on past District contracts.

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
CAPITAL IMPROVEMENT PROGRAM**

BUDGET DATA SHEET - FY 2019 - 2020

PROJECT:	Beaucatcher Rd. @ Kenilworth Rd.	LOCATION:	E. Asheville
TYPE:	General Sewer Rehab.	PIPE RATING:	35
PROJECT NO.	2015219	TOTAL LF:	1,590
PROJECT BUDGET:	\$639,708.00	PROJECT ORIGIN:	Work Orders, Line Condition

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/18	EST. COST JAN - JUNE 2019	BUDGET FY 19-20
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$6,500.00	\$6,500.00		
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	\$629,908.00		\$171,908.00	\$458,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$1,000.00			\$1,000.00
55450 - SURVEY - ASBUILT	\$1,300.00			\$1,300.00
TOTAL AMOUNT	\$639,708.00	\$6,500.00	\$172,908.00	\$460,300.00

ENGINEER:	MSD	SA	ESTIMATED BUDGETS - FY 21 - 29	
R.O.W. ACQUISITION:	MSD	# PLATS: [0]	FY 20-21	\$0.00
CONTRACTOR:			FY 21-22	\$0.00
CONSTRUCTION ADM:	MSD		FY 22-23	\$0.00
INSPECTION:	MSD		FY 23-24	\$0.00
			FY 24-25	\$0.00
			FY 25-26	\$0.00
PROJECT DESCRIPTION: This project is located in East Asheville and is comprised of 1590 LF of 8-inch ductile iron pipe. The existing line is aging 6" orangeburg pipe in poor condition with a large amount of root intrusion. A portion of this project was constructed in FY 19 ahead of COA paving.			FY 26-27	\$0.00
			FY 27-28	\$0.00
			FY 28-29	\$0.00

SPECIAL PROJECT NOTES:



Beaucatcher Road at Kenilworth Road Project No. 2015219

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 17, 2019

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

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Darin Prosser, P.E. - Project Manager

SUBJECT: Consideration of Sole Source: Erwin Hills Pump Station Improvements, MSD Project No. 2019043

BACKGROUND: The Erwin Hills Pump Station serves the area surrounding and including Clyde A. Erwin High School, as well as various properties along New Leicester Highway. Due to the continued growth in this area, the station must be upsized to accommodate current and future demands.

The improvements to the pump station include replacing two of the four Gorman-Rupp pumps due to age and availability of parts (the other two pumps were replaced in previous years), four 40-HP motors, upsizing the suction lines, a Blue Star 200 kW generator with an automatic transfer switch, and upgrading the electrical components.

The Blue Star Generator is recommended because it utilizes “open source” software/controls and can be serviced by District staff or any competent electrical contractor. Other name brands utilize proprietary software systems - neither MSD staff nor electrical contractors are able to service the control systems; only the dealer network can be utilized for software maintenance, repair, and programming.

This project will increase the current capacity of the station from 430,000 gpd to 720,000 gpd. This will maximize the capacity of the existing station and force-main system.

The cost of the new larger pumps, generator, and installation is \$122,972.31.

<u>Item</u>	<u>Cost</u>
1) Gorman Rupp Pumps	\$ 54,000.00
2) Blue Star Generator	\$ 60,122.31
3) Haynes Electric	<u>\$ 8,850.00</u>
TOTAL	\$122,972.31

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY19-20 Construction Budget for this project is \$125,000.00.

STAFF RECOMMENDATION: Staff recommends that the District sole-source procure the Gorman Rupp pumps for this project due to compatibility with the existing Gorman Rupp pumps.

Staff also recommends that the District sole-source procure a 200 kW Blue Star Generator due to the fact that performance competition, via open-source controls, is not available among other generator suppliers.

Interoffice Memorandum

TO: Tom Hartye, General Manager

FROM: Ed Bradford, CIP Manager
Darin Prosser, Project Manager

DATE: June 28, 2019

RE: Erwin Hills Pump Station Improvements, MSD Project No. 2019043

The Erwin Hills Pump Station serves the Erwin Hills area. This pump station receives flow from a majority of the Erwin Hills area, including Erwin High School and the Mount Carmel Acres development. The improvements to the pump station will include replacing two of the four pumps due to age and availability of parts (the other two pumps were replaced in previous years), four 40-HP motors, upsizing the suction lines to 6-inch, a 200 kW generator with automatic transfer switch, and upgrading the electrical components for the new motors and generator set.

These improvements to the Erwin Hills Pump Station are necessary due to the pump station currently being under capacity per the North Carolina Department of Environmental Quality (NCDEQ) standards. These improvements will increase the capacity to 0.72 MGD from the current capacity of 0.43 MGD. This will maximize the current set up of the pump station.

Due to replacing the existing pumps with minimum rehabilitation to the pump station, the pump and motor purchase will require sole source of the Gorman Rupp pumps. The recommended generator set is a Blue Star generator and will require a sole source purchase due to software maintenance being non-proprietary and to create uniformity throughout the District. Haynes Electric has been selected to perform the set up and wiring of the new generator, which is based on prior experience and excellent work history with the District. The following are the itemized costs for this project:

<u>Item</u>	<u>Cost</u>
1) Gorman Rupp	\$ 54,000.00
2) Blue Star Generator	\$ 60,122.31
3) Haynes Electric	\$ <u>8,850.00</u>
TOTAL	\$122,972.31

The total cost for this project is \$122,972.31. The FY19-20 construction budget for this project is \$125,000.00. Staff recommends purchase of the various items as shown, subject to review and approval by District Counsel.

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

BUDGET DATA SHEET - FY 2019 - 2020

PROJECT: Erwin Hills PS Improvements	LOCATION: Erwin Hills
TYPE: Pump Station Improvements	PIPE RATING: N/A
PROJECT NO. 2019043	TOTAL LF: 0
PROJECT BUDGET: \$125,000.00	PROJECT ORIGIN: Capacity Improvements

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/18	EST. COST JAN - JUNE 2019	BUDGET FY 19-20
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$125,000.00			\$125,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING				
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$125,000.00	\$0.00	\$0.00	\$125,000.00

ENGINEER: MSD	DP	ESTIMATED BUDGETS - FY 21 - 29	
R.O.W. ACQUISITION:	# PLATS: [0]	FY 20-21	\$0.00
CONTRACTOR:		FY 21-22	\$0.00
CONSTRUCTION ADM.: MSD		FY 22-23	\$0.00
INSPECTION: MSD		FY 23-24	\$0.00
		FY 24-25	\$0.00
		FY 25-26	\$0.00
PROJECT DESCRIPTION: This project is located adjacent to the corner of Erwin Hills Rd and Lees Creek Rd. The pump station needs to be upgraded to meet current and future flows.		FY 26-27	\$0.00
		FY 27-28	\$0.00
		FY 28-29	\$0.00

SPECIAL PROJECT NOTES:



Erwin Hills Pump Station Improvements Project No. 2019043

NOT TO SCALE



METROPOLITAN SEWERAGE DISTRICT
of
BUNCOMBE COUNTY, NORTH CAROLINA

Budget Map

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

BOARD MEETING DATE: July 17, 2019

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

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Darin Prosser, P.E. - Project Manager

SUBJECT: Informational Item: Thickener Bldg. MCC Replacement, MSD Project No. 2018222

BACKGROUND: The thickeners are an important part of the treatment process at the Water Reclamation Facility. They help to thicken the sludge from the Rotating Biological Contactors, prior to dewatering at the incinerator building.

The Thickener Building Motor Control Center (MCC) controls the variable frequency drives for the three sludge pumps, the two drives for the rakes in the thickener tanks, indoor/outdoor lighting, and heating for the building.

The current MCC was installed in 1988 as part of an upgrade project at that time. This unit was installed next to the original MCC to allow for the Plant to remain operational. This newer unit has now aged and replacement parts are obsolete - making it difficult for maintenance. The replacement MCC will be installed during the incinerator shut down this coming winter. This will allow the contractor to remove both existing MCC units before installing the new MCC.

MB Haynes has an excellent performance history on previous plant projects and will perform the installation. A proposal from MB Haynes was obtained for two preferred equipment suppliers:

<u>Manufacturer</u>	<u>Proposal Amount</u>
1) Allen-Bradley	\$71,116.00
2) Eaton	\$61,600.00

The above prices include installation costs. Eaton has provided excellent performance, parts availability (manufactured in Arden, NC), and technical service over the years.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY19-20 Construction Budget for this project is \$100,000.00.

STAFF RECOMMENDATION: This is provided as information only. No action is required.

Interoffice Memorandum

TO: Tom Hartye, General Manager

FROM: Ed Bradford, Director of Engineering
Darin Prosser, Project Manager

DATE: June 28, 2019

RE: Thickener Building MCC Replacement, MSD Project No. 2018222

The Thickener Building Motor Control Center (MCC) controls the variable frequency drives for the three sludge pumps, the two drives for the rakes in the thickener tanks, indoor/outdoor lighting, and heating for the building. The Thickener process is essential to the Water Reclamation Facility as it allows solids to settle in the tanks to form sludge and the sludge is pumped to the Incinerator Building for dewatering then incineration.

The existing MCC was installed as a part of the 1988 Plant upgrades. This unit was installed next to the original MCC to allow for the Plant to remain operational. This MCC is now aged and replacement parts are obsolete - making it difficult for maintenance. The replacement MCC will be installed during the incinerator shut down this coming winter, which will allow the contractor to remove both existing MCC units before installing the new MCC.

MSD solicited proposals for the Thickener Building MCC using two preferred equipment manufacturers. Proposal amounts were as follows:

<u>Manufacturer</u>	<u>Proposal Amount</u>
1) Allen-Bradley	\$71,116.00
2) Eaton	\$61,600.00

The District is familiar with Eaton electrical gear after having installed various units at the Water Reclamation Facility and Carrier Bridge Pump Station. Staff has been very pleased with Eaton's performance, parts availability (manufactured in Arden, NC), and technical service response.

The FY 19-20 budget for this project is \$100,000.00 which also includes a new mini split ac/heater unit and rerouting of a roof drain that is routed over the existing MCC unit. Haynes Electric has been contracted, based on experience and work history with the District, to perform the MCC replacement. Haynes's labor amount of \$13,900.00 was included in both proposals.

Staff recommends that the District proceed with the procurement of the Eaton motor control center contingent upon review and approval by District Counsel.



187 Deaverview Road (28806)
PO Box 16589
Asheville, NC 28816
828.254.6141
www.mbhaynes.com

PROPOSAL

12/6/2018

Proposal Submitted To:

Metropolitan Sewage District (12816)
2028 Riverside Drive
Asheville, NC 28804

Attention: Dillard Rice

Phone: (828) 254-9646

Email: DillardR@msdbc.org

Project Name: Replace Thickener Building MCC

Project Tax Type: CIP

Project Location:

2028 Riverside Drive
Asheville, North Carolina 28804

Our Scope of Work in Accordance with the Following:

1. Includes materials, equipment, and labor to replace the existing thickener building MCC.
2. New MCC to have equivalent foot print of existing to allow conduits and cabling to tie in with out splicing.
3. All in-use feeds to be tied back in to new MCC.
4. Expose electrical duct bank, tie into existing raceways, and add nema 4x disconnect outside the thickener building to intercept MCC feed and provide disconnecting means for MCC.
5. Check voltage and confirm correct rotation.
6. Shutdown required to change out MCC.
7. Include labor for 3 days to complete shutdown.
8. Applicable sales tax is included in this proposal. Projects defined as a Capital Improvement Project (CIP) by the NC Department of Revenue G.S. 105-164.4(a)(16), should be predicated by receipt of a signed E-589CI form (see "Project Tax Type" above).

Option 1

Allen Bradley

TOTAL BASE: \$71,116

MCC Break-Out Included in Base: \$42,516

Labor: \$13,900

Materials: \$9,725

Equipment: \$4,975

ADD ALTERNATES (NOT INCLUDED IN BASE)

Start-up/Training: \$2,200 per day

Studies: \$3,800

Option 2

Eaton

TOTAL BASE: \$61,600

MCC Break-Out Included in Base: \$33,000

Labor: \$13,900

Materials: \$9,725

Equipment: \$4,975

ADD ALTERNATES (NOT INCLUDED IN BASE)

Proposal Total:

Terms and Conditions

We hereby propose to furnish material and labor – complete in accordance with the above specifications, the NEC and all applicable electrical codes and regulations, under N.C. Electrical Contractor License No. 3-U (Since 1921). Invoices to include labor and materials (installed and/or stored) submitted monthly. This amount payable on or before the 15th of the following month. Final payment due within thirty (30) days of completion. All quoted work to be done during normal business hours unless specifically noted. If any hazardous materials are discovered at any time during execution of quoted work, said work shall be halted until such time as customer has hazardous materials properly abated. This proposal may be withdrawn by us if not accepted within thirty (30) days.

Acceptance of Proposal

The above prices, terms, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.

Adam Greene

Signature

Date

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

BUDGET DATA SHEET - FY 2019 - 2020

PROJECT:	Thickener Rehabilitation	LOCATION:	MSD - Treatment Plant
TYPE:	Treatment Plant	PIPE RATING:	N/A
PROJECT NO.	2018222	TOTAL LF:	0
PROJECT BUDGET:	\$100,000.00	PROJECT ORIGIN:	Obsolete Equipment

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/18	EST. COST JAN - JUNE 2019	BUDGET FY 19-20
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$100,000.00			\$100,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING				
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$100,000.00	\$0.00	\$0.00	\$100,000.00

ENGINEER:	MSD	DP	ESTIMATED BUDGETS - FY 21 - 29	
R.O.W. ACQUISITION:		# PLATS: [0]	FY 20-21	\$0.00
CONTRACTOR:			FY 21-22	\$0.00
CONSTRUCTION ADM.:	MSD		FY 22-23	\$0.00
INSPECTION:	MSD		FY 23-24	\$0.00
			FY 24-25	\$0.00
			FY 25-26	\$0.00
			FY 26-27	\$0.00
			FY 27-28	\$0.00
			FY 28-29	\$0.00

PROJECT DESCRIPTION: This project is for the replacement of the Motor Controls Center (MCC) inside the Thickener Building. The existing MCC was installed in the 1988 Plant upgrades. The components of the existing MCC are obsolete and difficult to replace. Additional minor improvements will be made to the thickeners and building.

SPECIAL PROJECT NOTES:



**Thickener Rehabilitation
Project No. 2018222**

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 17, 2019

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

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Ken Stines - Director of Maintenance
Darin Prosser, P.E. - Project Manager

SUBJECT: Consideration of Purchase of Replacement Filter Cloth Media

BACKGROUND: The Filter Building at the Water Reclamation Facility (WRF) has been in operation since 2012. This system utilizes an Aqua-Aerobics AquaDisk™ system to filter biosolids from the wastewater prior to disinfection and discharge to the French Broad River.

It is comprised of 16 large filters, grouped into four sections, or “quads”. Each quad contains four filters. This provides capacity for normal and high flow conditions, as well as taking units offline for maintenance.

This system has functioned well over the years. It helps MSD maintain excellent permit compliance and protects the French Broad River. An essential part of this process is the filter fabric itself. This fabric is a wear component and must be replaced periodically. This purchase is for six filters, others have already been replaced. Future media replacement will be on a staggered schedule.

Staff obtained a price quote from Aqua-Aerobics to purchase the replacement filter media for these filters; please refer to the attached documentation for further details.

FISCAL IMPACT: The FY19-20 Plant Replacement Fund contains sufficient funds for this purchase.

STAFF RECOMMENDATION: Staff recommends approval to purchase replacement filter media from Aqua Aerobics Systems, Inc. in the amount of \$131,173.80.

Interoffice Memorandum

TO: Tom Hartye, General Manager

FROM: Ed Bradford, Director of Engineering
Ken Stines, Director of Maintenance
Darin Prosser, Project Manager

DATE: July 10, 2019

RE: MSD Filter Building - Filter Replacement

The plant utilizes a filtration process that removes residual biosolids from the treated wastewater. This system, installed in 2012, uses Aqua Aerobics AquaDisk™ microfilters that are recommended for replacement every 5 years. The current microfilters were installed in 2012 and have performed as expected during their recommended life span. Now that the filter media is seven years old - filtering, backwashing, and mechanical issues have occurred due to the age and wear of the current filters.

Due to these ongoing issues the filter media need to be replaced. The replacement media must be identical to fit the existing equipment and filtering capabilities and therefore be the same make and material, Aqua Aerobics AquaDisk™. A proposal was received from Aqua - Aerobic Systems for 438 filters on July 10th, 2019 in the amount of \$131,173.80. This proposal includes the filters, back wash shoes, and accessories.

Aqua Aerobic Systems is the only manufacturer of this type filter media for its filters, and these will be purchased from them upon Board approval. The FY 19-20 budget for this project is \$135,000.00. Funds are available in the Wastewater Treatment Replacement Fund.

Staff recommends that the District proceed with the procurement of the Aqua Aerobics AquaDisk™ contingent upon review and approval by District Counsel.



Filter Building at North End of Treatment Plant.



This picture shows two filters and the filter media (blue). There are sixteen filters.



Aftermarket Proposal # 53546

TO: French Broad River Water Reclamation Facility
2225 Riverside Dr.
Asheville, North Carolina 28804
USA

PROJECT: FRENCH BROAD RIVER WRF, NC
Asheville, NC
USA-MUN

ATN: Jay Cormier

PROPOSAL DATE: July 10, 2019

CC: Heyward Incorporated, Kathryn Baker

If billing and/or shipping address is different, please advise.

Qty	Description	Unit Price	Total Price
<p>We are pleased to quote, for acceptance within 60 days of this date, prices and terms on equipment listed below. Shipment of equipment will be completed after receipt of purchase order with mutually acceptable terms and conditions, subject to credit approval. *Note: Availability is quoted on an in-stock basis and may vary at the time of order.</p> <p>***Lead Time: 4 * Business Weeks</p>			
438	Filter Cloth Sock Type 2 (open back) OptiFiberPES-13® Polyester type Chlorine resistant Part number 2966911 Note that the normal price for the cloth is \$289/sock. Aqua is offering a one time customer goodwill discount to \$265/sock. The customer can purchase as many cloths at this price as desired, with the understanding that future purchases will be at \$289/sock. Upon trying the new PES-13 Type 2 cloth style, if it is determined that a different cloth style would be preferred, then any unused cloths can be returned for a full credit of \$265/sock. The customer will need to cover the cost of the freight to Aqua-Aerobic Systems for any unused socks that are returned.	\$265.00	\$116,070.00
438	Centertube port sealing gasket (1) needed per frame Part number 2506752	\$1.60	\$700.80
150	BACKWASH SHOE, ADF-54 (CLASSIC), 8MM Part number 2520671	\$80.42	\$12,063.00
10	Retainer bar - side (1) needed per frame New Part number 2519224	\$18.00	\$180.00
10	Retainer bar - tab (1) needed per frame Part number 2506166	\$18.00	\$180.00

10	Retainer bar - notch (1) Needed per frame Part number 2506165	\$18.00	\$180.00
----	---	---------	----------

Notes:

1. Freight to jobsite is included, FOB Loves Park, Illinois as included in the Pricing Summary, below.
2. Startup supervision is not included.
3. Payable net 30 days from date of shipment subject to credit review, no retainage allowed.
4. State and/or local taxes will be charged unless we receive a valid resale/exemption certificate.

Pricing Summary

Equipment and/or Accessories:	\$129,373.80
Freight:	\$1,800.00

Total Job Price:	\$131,173.80
-------------------------	--------------

Material and/or services not specifically listed in this proposal are not included in the quoted TOTAL JOB PRICE and are to be supplied by others.

Goods quoted above will be sold subject to the terms and conditions of sale set forth on the face hereof and the following pages entitled "Terms and Conditions of Aqua-Aerobic Systems, Inc. (A MetaWater Company)": Any different or additional terms are hereby objected to.

TERMS AND CONDITIONS OF AQUA-AEROBIC SYSTEMS, INC. (A Metawater Company)

Page 1 of 2

This offer and all of the goods and sales of Aqua-Aerobic Systems, Inc. are subject only to the following terms and conditions. The acceptance of any order resulting from this proposal is based on the express condition that the Buyer agrees to all the terms and conditions herein contained. Any terms and conditions in any order, which are in addition to or inconsistent with the following, shall not be binding upon Aqua-Aerobic Systems, Inc. This proposal and any contract resulting therefrom, shall be governed by and construed in accordance with the laws of the State of Illinois, without regard to conflicts of laws principles.

PAYMENT

Unless specifically stated otherwise, quoted terms are Net 30 Days from shipping date. Past-due charges are 1.5% per month and will apply only on any past-due balance. Aqua-Aerobic Systems, Inc. does not allow retainage of any invoice amount, unless authorized in writing by an authorized representative of our Loves Park, Illinois office.

DURATION OF QUOTATION

This proposal of Aqua-Aerobic Systems, Inc. shall in no event be effective more than 30 days from date thereof, unless specifically stated otherwise, and is subject to change at any time prior to acceptance.

SHIPMENT

Shipping dates are not a guarantee of a particular day of shipment and are approximate, being based upon present production information, and are subject to change per the production schedules existing at time of receipt of purchase order. Aqua-Aerobic Systems, Inc. shall not be responsible for any delay in shipment for causes beyond its control including, but not limited to, war, riots, strikes, labor trouble causing interruption of work, fires, other casualties, transportation delays, modification of order, any act of governmental authorities or acts of God. Quoted shipment dates in this proposal are approximate dates goods will be shipped and, unless agreed to in writing by Aqua-Aerobic Systems, Inc., Buyer may not postpone or delay the dates of shipment of goods from our plant or from our supplier's plants beyond the dates set forth in this proposal.

TITLE AND RISK OF LOSS

All prices and all shipments of goods are F.O.B. Aqua-Aerobic Systems, Inc.'s plant at Loves Park, Illinois unless specifically stated otherwise. Delivery of the goods sold hereunder to the carrier shall be deemed delivery to the Buyer, and upon such delivery, title to such goods and risk of loss or damage shall be upon Buyer.

TAXES

Prices quoted do not include any taxes, customs duties, or import fees. Buyer shall pay any and all use, sales, privilege or other tax or customs duties or import fees levied by any governmental authority with respect to the sale or transportation of any goods covered hereby. If Aqua-Aerobic Systems, Inc. is required by any taxing authority to collect or to pay any such tax, duty or fee, the Buyer shall be separately billed at such time for the amounts Aqua-Aerobic Systems, Inc. is required to pay.

INSURANCE

Unless the goods are sold on a CIF basis, the Buyer shall provide marine insurance for all risks, including war and general coverage.

SECURITY

If at any time the financial responsibility of the Buyer becomes unsatisfactory to Aqua-Aerobic Systems, Inc., or Aqua-Aerobic Systems, Inc. otherwise deems itself insecure as to receipt of full payment of the purchase price from Buyer hereunder, Aqua-Aerobic Systems, Inc. reserves the right to require payment in advance or security or guarantee satisfactory to Aqua-Aerobic Systems, Inc. of payment in full of the purchase price.

LIMITATION OF ACTION

No action shall be brought against Aqua-Aerobic Systems, Inc. for any breach of its contract of sale more than two years after the accrual of the cause of action thereof, and, in no event, unless the Buyer shall first have given written notice to Aqua-Aerobic Systems, Inc., of any claim of breach of contract within 30 days after the discovery thereof.

CANCELLATION CLAUSE

No acceptance of this proposal, by purchase order or otherwise, may be modified except by written consent of Aqua-Aerobic Systems, Inc. nor may it be cancelled except by prior payment to Aqua-Aerobic Systems, Inc. the following sums as liquidated damages therefore: 1) If cancellation is prior to commencement of production and prior to the assumption of any obligations by Aqua-Aerobic Systems, Inc. for any materials or component parts, a sum equal to 15% of the total purchase price; 2) If cancellation is after the commencement of production or after the assumption of any obligations by Aqua-Aerobic Systems, Inc. for any materials or component parts, a sum equal to the total of the direct, out-of-pocket expenses incurred to the date of cancellation for labor, machine time, materials and any charges made to us by suppliers for cancellation, plus 30% of the total purchase price. All charges and expenses shall be as determined by Aqua-Aerobic Systems, Inc. In the event any items are used by Aqua-Aerobic Systems, Inc. to fill a subsequent order, then upon receipt of payment for such order, Aqua-Aerobic Systems, Inc. shall pay the Buyer a sum equal to the direct out-of-pocket expenses previously charged and received from Buyer.

PROPRIETARY INFORMATION

This proposal, including all descriptive data, drawings, material, information and know-how disclosed by Aqua-Aerobic Systems, Inc. to Buyer in relation hereto is confidential information intended solely for the confidential use of Buyer, shall remain the property of Aqua-Aerobic Systems, Inc. and shall not be disclosed or otherwise used to the disadvantage or detriment of Aqua-Aerobic Systems, Inc. in any manner.

TERMS AND CONDITIONS OF AQUA-AEROBIC SYSTEMS, INC. (A Metawater Company)

Page 2 of 2

QUALIFIED ACCEPTANCE AND INDEMNITY

In the event the acceptance of this proposal by Buyer either is contingent upon or subject to the approval by any third party such as, but not limited to, a consulting engineer, with respect to goods, parts, materials, descriptive data, drawings, calculations, or any other matter, then upon such approval by any third party, Aqua-Aerobic Systems, Inc. shall have no liability to Buyer or to any third party so long as the goods sold and delivered by Aqua-Aerobic Systems, Inc. conform to this proposal. In the event any such third party requires modifications in the proposal prior to the approval thereof, Aqua-Aerobic Systems, Inc. may at its sole option and without liability to any party elect to cancel this proposal or return the purchase order to Buyer. In the event Aqua-Aerobic Systems, Inc. elects to modify this proposal to conform to the requirements for approval by any third party, Aqua-Aerobic Systems, Inc. in such event shall have no liability to Buyer or to any third party so long as the goods sold and delivered by Aqua-Aerobic Systems, Inc. conform to this proposal as modified.

Buyer agrees to indemnify and save harmless Aqua-Aerobic Systems, Inc. from and against all costs and expenses and liability of any kind whatsoever arising out of or in connection with claims by third parties so long as the goods sold hereunder conform to the requirements of this proposal as approved by any third party.

WARRANTY; LIMITATION OF LIABILITY; AND DISCLAIMER

In return for purchase and full payment for Aqua-Aerobic Systems, Inc. goods, we warrant new goods provided by us to be free from defects in materials and workmanship under normal conditions and use for a period of one year from the date the goods are put into service, or eighteen months from date of shipment (whichever first occurs). If the goods include an "Endura Series" motor, the complete Endura Series unit shall be warranted by Aqua-Aerobic to be free from defects in materials and workmanship under normal conditions and use for three years from the date the product is put into service or 42 months from the date of shipment (whichever occurs first).

OUR OBLIGATION UNDER THIS WARRANTY IS EXPRESSLY AND EXCLUSIVELY LIMITED to replacing or repairing (at our factory at Loves Park, Illinois) any part or parts returned to our factory with transportation charges prepaid, and which our examination shall show to have been defective. Prior to return of any goods or its parts to our factory, Buyer shall notify Aqua-Aerobic Systems, Inc. of claimed defect, and Aqua-Aerobic Systems, Inc. shall have the privilege of examining the goods at Buyer's place of business at or where the goods have otherwise been placed in service. In the event this examination discloses no defect, Buyer shall have no authority to return the goods or parts to our factory for the further examination or repair. All goods or parts shall be returned to Buyer, F.O.B. Loves Park, Illinois. This warranty shall not apply to any goods or part which has been repaired or altered outside our factory, or applied, operated or installed contrary to our instruction, or subjected to misuse, chemical attack/degradation, negligence or accident. This warranty and any warranty and guaranty of process or performance shall no longer be applicable or valid if any product, including any software program, supplied by Aqua-Aerobic Systems, Inc., is modified or altered without the written approval of Aqua-Aerobic Systems, Inc. Our warranty on accessories and component parts not manufactured by us is expressly limited to that of the manufacturer thereof.

THE FOREGOING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER LIABILITIES AND OBLIGATIONS ON OUR PART, INCLUDING ANY LIABILITY FOR NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE; AND ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY DISCLAIMED; AND WE EXPRESSLY DENY THE RIGHT OF ANY OTHER PERSON TO INCUR OR ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ANY GOODS PROVIDED BY US. THERE ARE NO WARRANTIES OR GUARANTEES OF PERFORMANCE UNLESS SPECIFICALLY STATED OTHERWISE.

UNDER NO CIRCUMSTANCES, INCLUDING ANY CLAIM OF NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL AQUA-AEROBIC SYSTEMS, INC. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, COSTS OF CONNECTING, DISCONNECTING, OR ANY LOSS OR DAMAGE RESULTING FROM A DEFECT IN THE GOODS. LIMIT OF LIABILITY: AQUA-AEROBIC SYSTEMS, INC.'S TOTAL LIABILITY UNDER THE ABOVE WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF ANY DEFECTIVE PART. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE, AND OUR LIABILITY WITH RESPECT TO ANY CONTRACT OR SALE, OR ANYTHING DONE IN CONNECTION THEREWITH, WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, OR OTHERWISE, SHALL NOT, IN ANY CASE, EXCEED THE PRICE OF THE GOODS UPON WHICH SUCH LIABILITY IS BASED.

Final acceptance of this proposal must be given to Aqua-Aerobic Systems, Inc. at their office in Loves Park, Illinois. Please acknowledge acceptance by signing the proposal and returning it to Aqua-Aerobic Systems, Inc.

Accepted by:

Offer Respectfully Submitted,

By: _____ Date: _____

Paul Klebs, AfterMarket Sales Manager
Aqua-Aerobic Systems, Inc.

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: July 17, 2019

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

REVIEWED BY: Ed Bradford, P.E. - Engineering Director

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Governor's Western Residence Sewer Extension, MSD Project No. 2014100

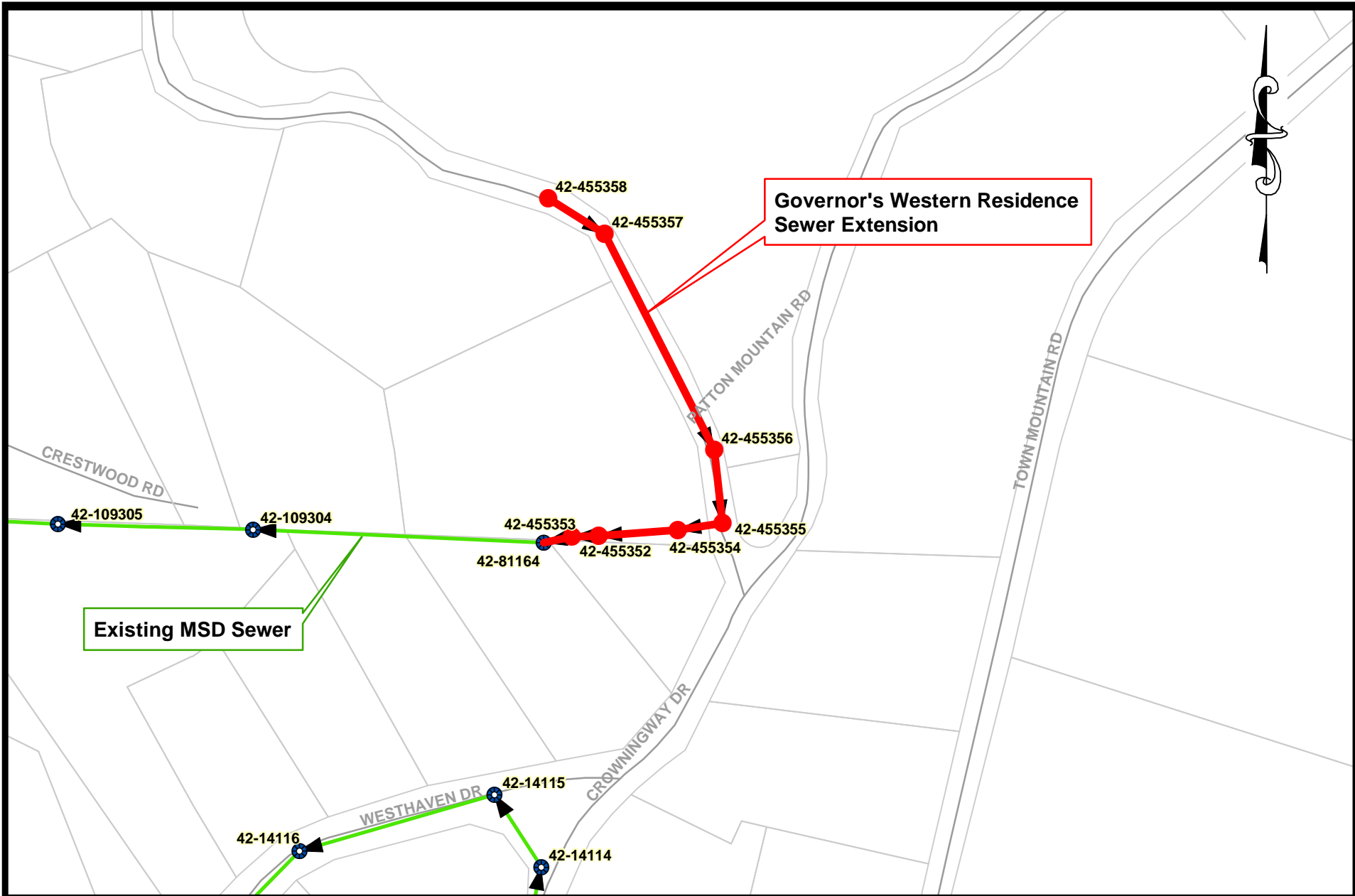
BACKGROUND: This project is located inside the District boundary off Patton Mountain Road in the City of Asheville. The developer of the project is the State of North Carolina.

The project included extending approximately 645 linear feet of 8-inch public gravity sewer to serve the Governor's Western Residence.

A wastewater allocation was issued in the amount of 3,000 GPD for this project. The estimated cost of the sewer construction is \$117,321.42.

All MSD requirements have been met.

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



MSD
Engineering Division

**Governor's Western Residence Sewer Extension
MSD Project # 2014100**

Metropolitan Sewerage District of Buncombe County

1/05/17

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: July 17, 2019

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

REVIEWED BY: Ed Bradford, P.E. - Engineering Director

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Ingles #31 – Smokey Park Sewer Extension, MSD Project No. 2013135/2018074.

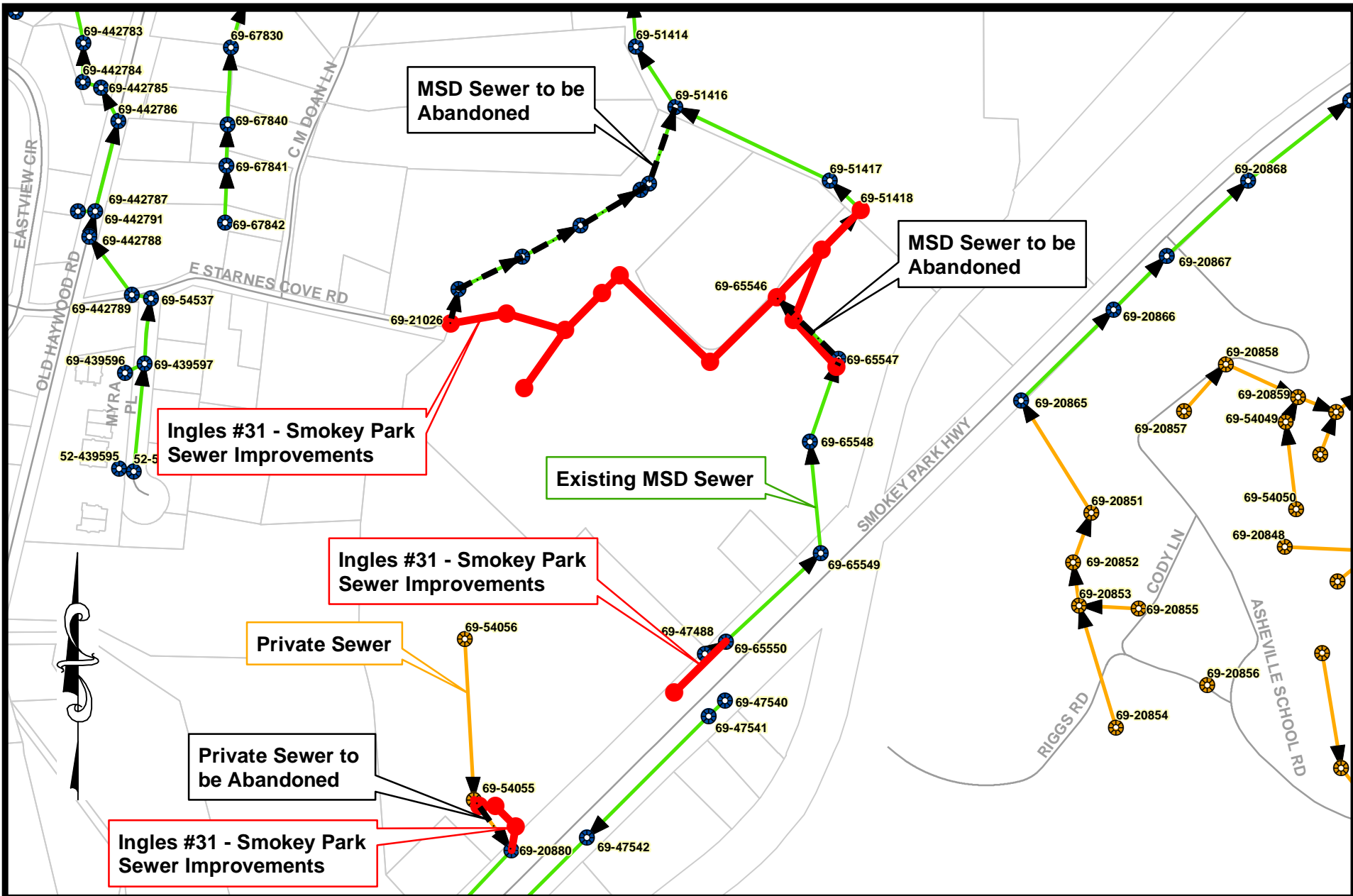
BACKGROUND: This project is located inside the District boundary along Smokey Park Highway in the City of Asheville. The developer of the project is Preston Kendall of Ingles Markets, Inc.

The project included extending approximately 1,248 linear feet of 8-inch public gravity sewer along with relocating approximately 716 LF of gravity sewer for a total of 1,964 new 8-inch gravity public sewer to serve the commercial development.

A wastewater allocation was issued in the amount of 25,275 GPD for this project. The estimated cost of the sewer construction is \$253,500.00.

All MSD requirements have been met.

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



MSD
Engineering Division

Ingles #31 - Smokey Park Sewer Improvements MSD Project # 2018074

Metropolitan Sewerage District of Buncombe County

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: July 17, 2019
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, 2019

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, 2019 were \$77,502,064. The detailed listing of accounts is available upon request. The average rate of return for all investments is 2.231%. 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, 2019 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of May 31, 2019 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$56,030,813.

Total Cash & Investments as of 05/31/2019		77,502,064
<i>Less:</i>		
Budgeted Commitments (Required to pay remaining FY19 budgeted expenditures from unrestricted cash)		
Construction Funds	(5,742,691)	
Operations & Maintenance Fund	(2,675,651)	
		(8,418,342)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(134,705)	
FY19 Principal & Interest Due	(6,829,916)	
		(6,964,621)
District Reserve Funds		
Fleet Replacement	(697,118)	
Pump Replacement	(201,620)	
WWTP Replacement	(255,935)	
Maintenance Reserve	(993,210)	
		(2,147,883)
District Insurance Funds		
General Liability	(344,996)	
Worker's Compensation	(339,303)	
Post-Retirement Benefit	(1,869,219)	
Self-Funded Employee Medical	(1,386,887)	
		(3,940,405)
Designated for Capital Outlay		56,030,813

Meeting Date: July 17, 2019

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2019

Page 2

Staff Recommendation

None - Information Only.

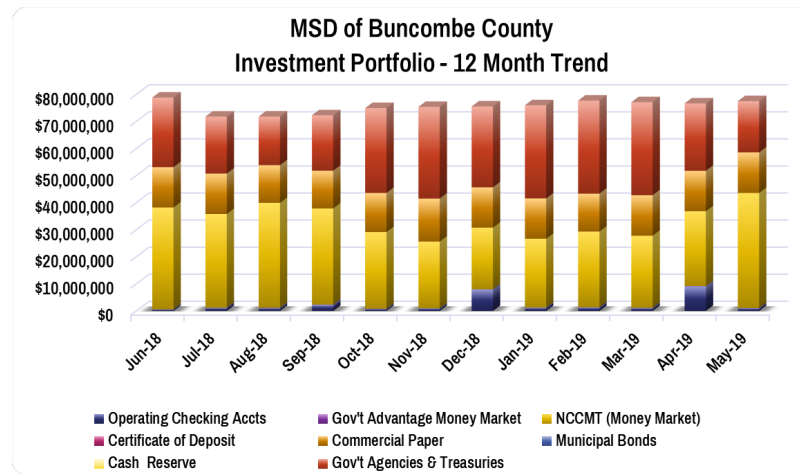
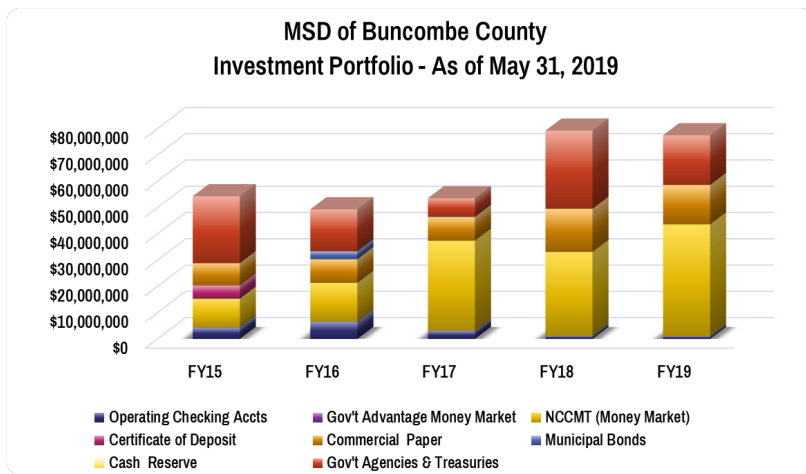
Action Taken

Motion by:	to	<input type="checkbox"/> Approve	<input type="checkbox"/> Disapprove
Second by:		<input type="checkbox"/> Table	<input type="checkbox"/> Send to Committee
Other:			
Follow-up required:			
Person responsible:		Deadline:	

Metropolitan Sewerage District of Buncombe County Investment Portfolio

	Operating Checking Accounts	Gov't Advantage Money Market	NCCMT (Money Market)	Certificate of Deposit	Commercial Paper	Municipal Bonds	Cash Reserve	Gov't Agencies & Treasuries	Total
Held with Bond Trustee	\$ -	\$ -	\$ 134,705	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 134,705
Held by MSD	1,019,475	46,682	42,404,080	-	14,975,072	-	-	18,922,050	77,367,359
	\$ 1,019,475	\$ 46,682	\$ 42,538,785	\$ -	\$ 14,975,072	\$ -	\$ -	\$ 18,922,050	\$ 77,502,064

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries, Agencies and Instrumentalities	100%	24.41%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	0.00%	The District 's YTM of 2.56% is exceeding the YTM benchmark of the NCCMT Government Portfolio.
Commercial Paper	20%	19.32%	
Municipal Bonds	100%	0.00%	
North Carolina Capital Management Trust	100%	54.89%	
Checking Accounts:	100%		All funds invested in CD's, operating checking accounts, Gov't Advantage money market are fully collateralized with the State Treasurer.
Operating Checking Accounts		1.32%	
Gov't Advantage Money Market		0.06%	



Meeting Date: July 17, 2019

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2019

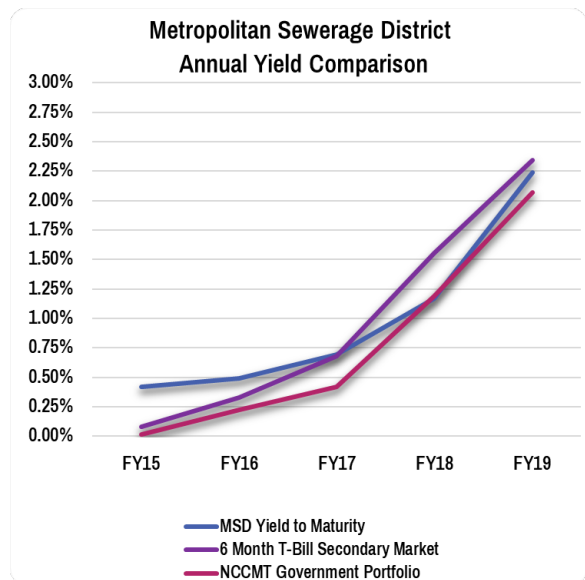
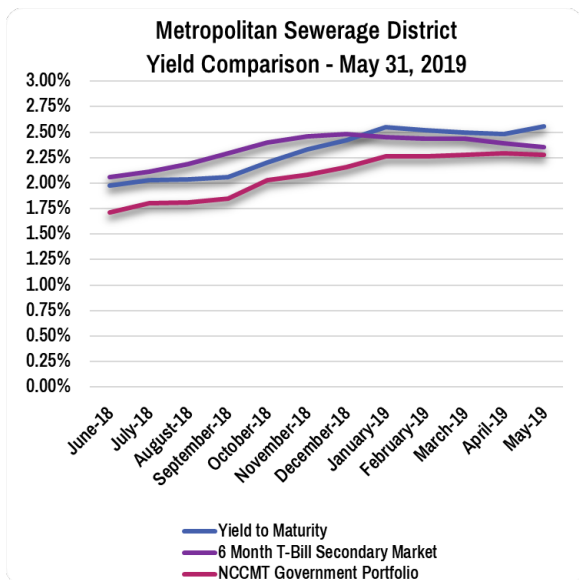
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**Metropolitan Sewerage District
INVESTMENT MANAGERS' REPORT
At May 31, 2019**

Summary of Asset Transactions			
	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 64,587,183	\$ 64,661,461	\$ 107,831
Capital Contributed (Withdrawn)	8,697,853	8,697,853	
Realized Income	136,430	136,430	(71,397)
Unrealized/Accrued Income		102,824	27,620
Ending Balance	<u>\$ 73,421,466</u>	<u>\$ 73,598,567</u>	<u>\$ 64,053</u>

Value and Income by Maturity			
	Original Cost	Income	
Cash Equivalents <91 Days	\$ 54,519,532	\$ 145,152	
Securities/CD's 91 to 365 Days	9,970,814	\$ 26,546	
Securities/CD's > 1 Year	8,931,120	\$ 23,778	
	<u>\$ 73,421,466</u>	<u>\$ 195,476</u>	

Month End Portfolio Information	
Weighted Average Maturity	140
Yield to Maturity	2.56%
6 Month T-Bill Secondary Market	2.35%
NCCMT Government Portfolio	2.28%

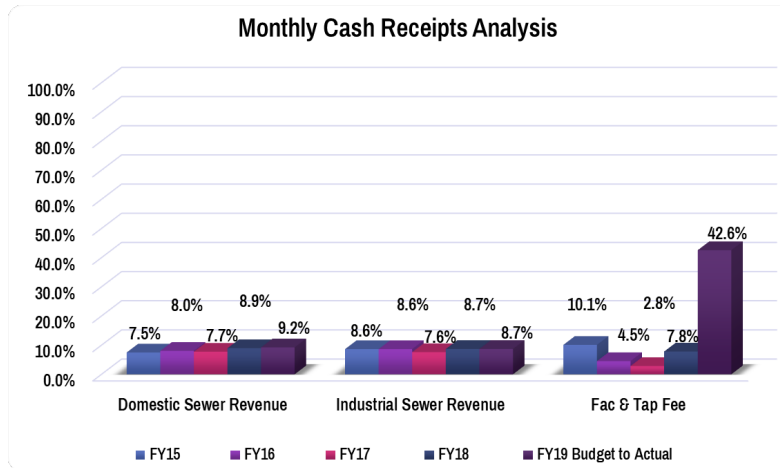


Meeting Date: July 17, 2019

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2019

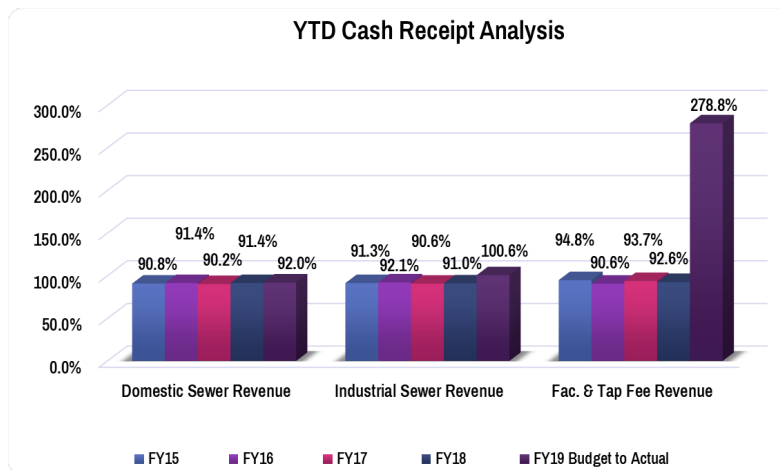
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Metropolitan Sewerage District
ANALYSIS OF CASH RECEIPTS
As of May 31, 2019



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:

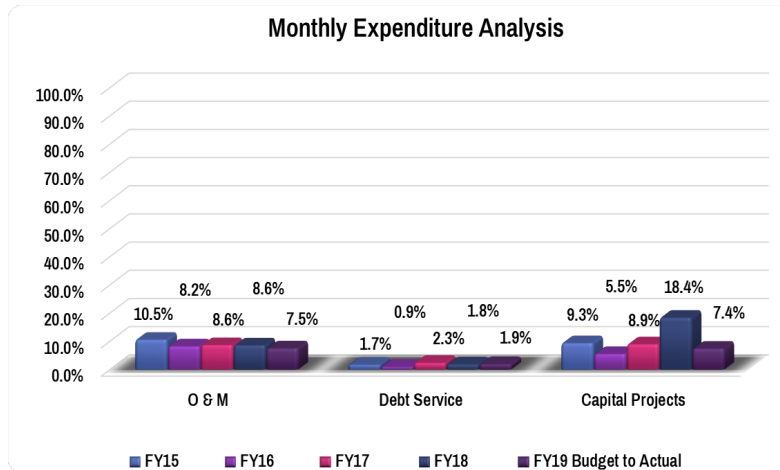
- YTD domestic sewer revenue is considered reasonable based on historical trends.
- YTD industrial sewer revenue is reasonable based on historical trends.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

Meeting Date: July 17, 2019

Subject: Cash Commitment/Investment Report-Month Ended May 31, 2019

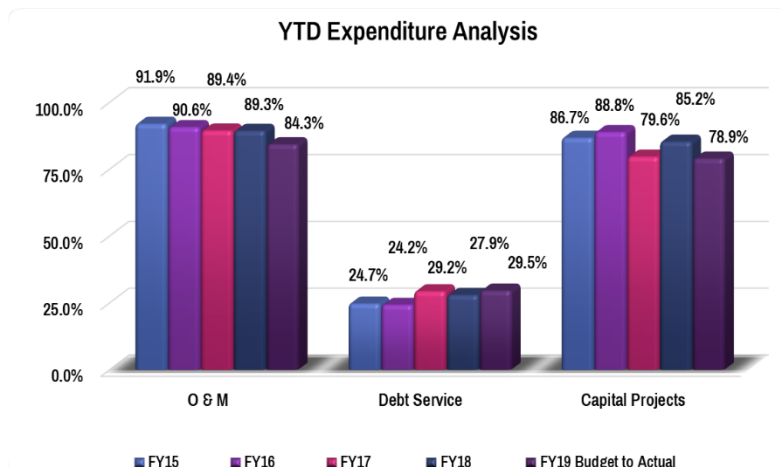
Page 6

Metropolitan Sewerage District
ANALYSIS OF EXPENDITURES
As of May 31, 2019



Monthly Expenditure Analysis:

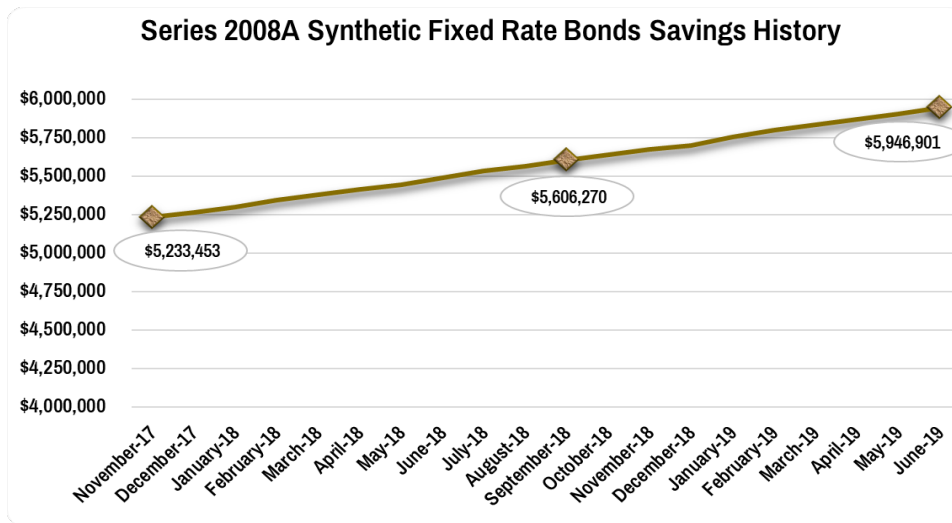
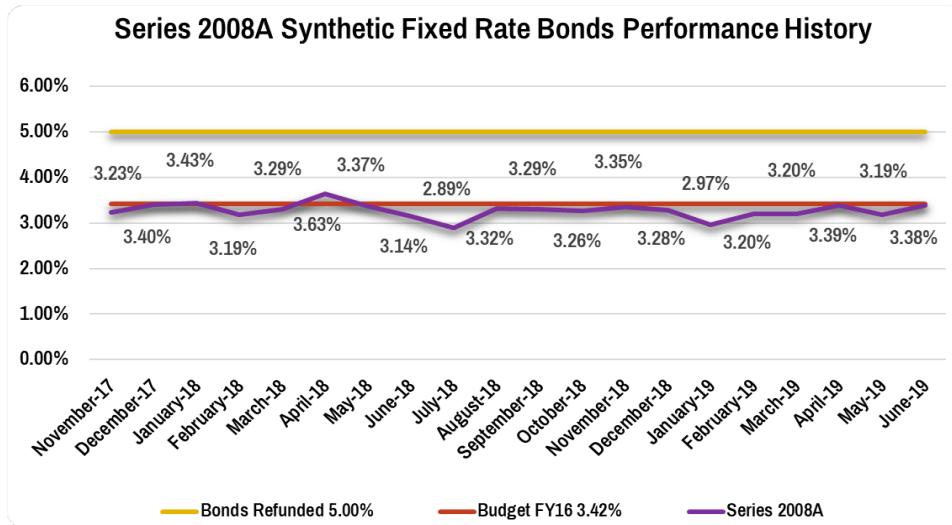
- ✘ Monthly O&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- ✘ Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures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

**Metropolitan Sewerage District
 VARIABLE DEBT SERVICE REPORT
 As of June 30, 2019**



Series 2008A:

- Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$5,946,901 as compared to 4/1/2008 fixed rate of 4.85%.
- Assuming the rate on the Series 2008A Bonds continues at the current all-in rate of 3.9475%, MSD will achieve cash savings of \$4,670,000 over the life of the bonds.
- MSD would pay \$3,311,017 to terminate the existing Bank of America Swap Agreement.

STATUS REPORTS

MSD System Services In-House Construction

FY 18-19

PROJECT NAME	LOCATION	ZIP CODE	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	NOTES
Emergency Weaverville #2 FM Repair Section 1	Woodfin	28804	60	7/10/2018	254177	631	7/10/2018	61	Complete
West Skyland Circle Sewer Rehabilitation	Woodfin	28804	520	6/18/18 - 7/20/18	246546	631	7/11/2018	515	Complete
Waynesville Avenue Sewer Rehab Ph. 2	Asheville	28806	400	6/15/18 - 7/15/18	253710	674	7/16/2018	372	Complete
Williamette Circle Sanitary Sewer Rehabilitation	Weaverville	28787	183	7/12/18 - 7/18/18	233748	631	7/18/2018	185	Complete
Emergency Weaverville #2 FM Repair Section 2	Woodfin	28804	330	8/4/18-8/5/18	254896	674	8/5/2018	321	Complete
3 Cliffridge Parkway Emergency Replacement	Avery's Creek	28704	80	8/7/2018	477071	608	8/7/2018	80	Complete
56 Fairway Drive Sewer Rehabilitation	Asheville	28805	451	7/17/18 - 8/31/18	240884	674	8/13/2018	452	Complete
Livingston Street at Erskine Sewer Rehabilitation	Asheville	28801	710	7/19/18 - 8/31/18	247502	631	8/15/2018	720	Complete
Myrtle Street Sewer Rehabilitation	Arden	28704	410	8/14/18 - 8/29/18	251129	674	8/29/2018	372	Complete
105 Midland Ave Sewer Rehabilitation	Black Mountain	28711	810	8/16/18 - 9/28/18	242836	631	9/12/2018	825	Complete
12 Melody Lane Sewer Replacement	Asheville	28803	215	9-24-18 - 9-26-18	256028	631	9/26/2018	216	Complete
110 Beaver Drive	Woodfin	28804	425	9/3/18-9/28/18	210211	674	9/28/2018	492	Complete
14 Shiloh Road Sewer Replacement	Asheville	28803	145	10/1/18 - 10/7/18	256024	631	10/3/2018	145	Complete
51 Hillcrest Road Sewer Replacement	Woodfin	28804	1320	10/7/18 - 11/7/18	255110	631	10/31/2018	1270	Complete
2229 Riverside Drive FM Repair Section 3	Woodfin	28804	182	11/16/2018	257443	631	11/16/2018	182	Complete
Blue Ridge Assembly Drive Sewer Replacement	Black Mountain	28711	250	10/29/18 - 11/9/18	256869	674	11/26/2018	287	Complete
Kanawha Drive GSR	Montreat	28757	495	11/1/18 - 12/1/18	255722	674	11/30/2018	332	Complete
38 Dunsmore Avenue	Black Mountain	28711	260	12/2/18 - 12/18/18	237426	674	12/18/2018	236	Complete
32 Klondyke Avenue Sewer Rehabilitation	Asheville	28801	1165	11/17/18 - 1/2/19	257226	631	12/28/2018	1216	Complete
28 Roebing Circle Sewer Rehabilitation	Asheville	28803	600	12/27/18 - 1/ 15/19	256370	674	1/18/2019	646	Complete
217 Mountain View Road Sewer Rehabilitation Ph. 1	Asheville	28805	979	1/2/19 - 2/1/19	257484	631	1/31/2019	752	Complete
70 Hampton Street Sewer Replacement	Asheville	28803	273	2/1/19 - 2/10/19	256291	631	2/8/2019	253	Complete
Laurel Road Phase 2B	Arden	28704	800	2/11/19 - 3/15/19	250366	631	3/19/2019	907	Complete
26 Wilshire Drive Phase I Sewer Rehabilitation	Asheville	28806	1478	2/1/19 - 3/15/19	235158	674	3/25/2019	1477	Complete
Weaverville #2 FM By-pass	Woodfin	28804	2300	3/20/19 - 4/15/19	258476	631	4/16/2019	2700	Complete
26 Wilshire Drive Phase II and III Sewer Rehabilitation	West Asheville	28806	384	3/26/19 - 4/15/19	259181/260381	674	4/18/2019	571	Complete
15 Dew Waite Road	Ridgecrest	28770	533	4/16/19 - 5/16/19	236553	631	4/29/2019	504	Complete
6 Dale Street	Asheville	28806	130	5/20/19 - 5/25/19	257417	631	5/22/2019	130	Complete
Waightstill Mtn FM Replacement	Arden	28704	3,700	5/2/19 - 6/21/19	235481	674	6/13/2019	3670	Complete
Saint Johns Street Force Main Replacement	Arden	28704	1040	6/10/19-7/5/19	238516	631			Construction 95% complete
Waynensville Avenue at Brownwood	Asheville	28806	798	6/24/19 - 8/15/19	247283	674			Construction has begun



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2018 to 5/31/2019

	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 2018	27	8	99	986	23	39	4,335	0	321	660	19	412	1393
August 2018	25	8	104	1,238	24	41	17,360	0	677	968	12	576	2221
September 2018	23	8	171	974	21	36	470	0	216	1317	11	0	1533
October 2018	37	9	256	614	46	28	2,630	0	205	916	9	507	1628
November 2018	24	15	54	416	16	8	2,377	0	514	287	2	0	801
December 2018	23	7	41	578	20	15	1,220	0	0	1452	10	0	1452
January 2019	23	13	105	539	19	15	1,340	0	68	1400	8	0	1468
February 2019	38	20	120	1,033	5	25	80	0	192	253	2	0	445
March 2019	40	9	136	1,107	22	34	624	0	0	2206	27	178	2384
April 2019	35	15	85	852	39	28	6,091	0	0	3775	6	0	3775
May 2019	39	13	284	991	27	36	32,250	0	16	8	2	129	153
Grand Totals	334	125	1,454	9,328	262	305	68,777	0	2209	13242	108	1,802	17253

* Used to calculate Total Rehab Footage



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
DAY 1ST RESPONDER				
	July, 2018	97	20	35
	August, 2018	127	28	30
	September, 2018	75	21	40
	October, 2018	94	25	35
	November, 2018	76	28	35
	December, 2018	117	30	41
	January, 2019	107	28	42
	February, 2019	118	31	36
	March, 2019	135	23	35
	April, 2019	143	29	35
	May, 2019	114	25	40
		1,203	26	37
NIGHT 1ST RESPONDER				
	July, 2018	11	17	25
	August, 2018	19	15	23
	September, 2018	13	21	20
	October, 2018	20	28	22
	November, 2018	20	29	33
	December, 2018	12	22	25
	January, 2019	23	28	27
	February, 2019	18	22	25
	March, 2019	19	29	18
	April, 2019	24	29	34
	May, 2019	16	24	22
		195	25	25
ON-CALL CREW *				
	July, 2018	44	46	54
	August, 2018	37	41	40
	September, 2018	31	34	44
	October, 2018	38	51	38

* On-Call Crew Hours: 8:00pm-7:30am Monday-Friday, Weekends, and Holidays



CUSTOMER SERVICE REQUESTS Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
ON-CALL CREW *				
	November, 2018	42	58	53
	December, 2018	49	39	30
	January, 2019	59	41	31
	February, 2019	48	52	36
	March, 2019	51	41	50
	April, 2019	69	49	35
	May, 2019	31	50	29
		499	46	39
Grand Totals:		1,897	31	36

* On-Call Crew Hours: 8:00pm-7:30am Monday-Friday, Weekends, and Holidays



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2018 to May 31, 2019

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
2018							
July	78,545	1,208	693	79,238	23,634	0	1,683
August	67,431	1,082	1,765	69,196	35,905	35,328	23,056
September	61,707	856	8,164	69,871	17,818	300	12,942
October	94,807	1,141	11,984	106,791	19,250	10,504	4,765
November	85,234	1,974	8,074	93,308	14,766	24,371	3,595
December	47,029	1,200	2,758	49,787	16,156	38,524	0
2019							
January	88,137	2,254	6,458	94,595	14,037	28,090	20,459
February	67,560	2,788	6,961	74,521	15,221	500	3,631
March	60,919	2,593	8,146	69,065	19,758	2,300	5,960
April	98,295	1,695	7,314	105,609	20,464	5,051	20,776
May	85,082	2,057	13,136	98,218	30,062	1,700	41,391
Grand Total:	834,746	18,848	75,453	910,199	227,070	146,668	138,258
Avg Per Month:	75,886	1,713	6,859	82,745	20,643	13,333	12,569

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>
Brown Avenue @ Elk Mountain Road PSR	\$20,164	\$13,005	Project 100% complete with 64% Total Budget expended and no condemnations.
Brownwood Ave. @ Waynesville Ave.	\$16,671	\$4,859	Project 100% complete with 29% Total Budget expended and no condemnations.
Christian Creek Interceptor	\$100,477	\$59,452	Access 86% complete with 59% of Total Budget expended to date. One condemnation filed.
Jarnaul Avenue GSR	\$119,036		Consultant to acquire. Will begin second week of July.
Lower Melody Lane GSR	\$45,586	\$13,786	Access 75% complete with 30% Total Budget expended to date.
New Walnut Street @ Riverside Drive GSR	\$17,704	\$8,394	Project 100% complete with 47% Total Budget expended and no condemnations.
Springside Rd. @ Overlook Rd. GSR	\$21,276	\$12,414	Access 75% complete with 58% Total Budget expended to date.

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

July 10, 2019

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
AVERY CREEK PUMP STATION IMPROVEMENTS	Arden 28704	NHM Constructors	11/21/2018	5/2/2019	8/2/2019	\$532,674.25	35%	Access road is complete. 85% of electrical work is done. Contractor working on wet well and grinder vault.
BEAUCATCHER ROAD @ KENILWORTH ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	6/24/2019	10/22/2019	\$171,908.00	0%	No work has started yet. Contractor on another MSD project.
BEAUCATCHER ROAD @ KENILWORTH ROAD PHASE 2	Asheville 28805	TBA	TBA	TBA	TBA	TBA	0%	Project bid on June 27th. Terry Brothers Construction Company is the apparent low bidder. Project will be presented at the July Board meeting.
DRY RIDGE ROAD (4-INCH MAIN)	Asheville 28804	Buckeye Bridge, LLC	9/19/2018	11/12/2018	6/28/2019	\$295,402.09	100%	Project is complete and ready for final payment.
KENILWORTH ROAD @ SPRINGDALE ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	6/24/2019	10/22/2019	\$252,324.00	0%	No work has started yet. Contractor on another MSD project.
MEMORY LANE	Asheville 28805	Terry Brothers Construction Company	6/13/2018	10/1/2018	7/12/2019	\$652,274.80	100%	Punch list work is complete. Final pay application in process.
OLD HAW CREEK ROAD @ GREENBRIAR ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	4/15/2019	10/12/2019	\$821,552.00	70%	Line A will be complete this week, moving to Line B after that.
OLD WEST CHAPEL ROAD	Asheville 28803	Terry Brothers Construction Company	11/21/2018	1/10/2019	7/31/2019	\$982,155.00	99%	Conducted final inspection 7/8/19. Contractor working on punch list.
WEAVERVILLE FORCE MAIN @ PLANT	Woodfin	TBA	TBA	TBA	TBA	TBA	0%	Project bid on June 27th. Buckeye Bridge withdrew their bid; Terry Brothers Const. Co. is the apparent low bidder. Project will be presented at the July Board meeting.
WRF - PLANT HEADWORKS IMPROVEMENTS	Woodfin	Judy Construction Company	1/18/2017	4/3/2017	7/19/2019	\$9,618,319.66	99%	Contractor installing remaining apparatus this week.
WRF- PLANT HIGH RATE PRIMARY TREATMENT	Woodfin	Shook Construction Company	10/17/2018	1/7/2019	10/28/2020	\$15,071,000.00	15%	Contractor excavating rock and preparing to install subgrade material. Retaining wall complete adjacent to RBC basin.

*Updated to reflect approved Change Orders and Time Extensions

Planning & Development Project Status Report

Active Construction Projects Sorted by Work Location and Project Number

July 8, 2019

#	Project Name	Project Number	Work Location	Zip Code	Units	LF	Pre-Construction Conference Date	Comments
1	First Baptist Relocation	2015032	Asheville	28801	Comm.	333	7/21/2015	Final Inspection complete, awaiting close-out docs
2	8 Sulphur Springs Road	2015116	Asheville	28806	6	80	11/22/2016	Final Inspection complete, awaiting close-out docs
3	Towne Place Suites	2016012	Asheville	28801	83	342	9/11/2018	Installing
4	88 Southside Ave Phase 2	2016015	Asheville	28801	18	400	2/21/2017	Phase 2 not yet started
5	Hounds Ear (Mears Ave Cottages)	2016123	Asheville	28806	18	402	8/18/2017	Pre-con held, construction not yet started
6	Lausch Subdivision	2016153	Asheville	28805	4	248	5/16/2017	Waiting on final inspection
7	Hawthorne at Mills Gap	2016222	Asheville	28803	272	442	10/3/2017	Waiting on final inspection
8	Ashecroft	2016229	Asheville	28806	40	2,450	2/20/2018	Phase 1 - Final complete, awaiting close-out docs / Phase 2 - on hold
9	Gerber Road Storage	2017049	Asheville	28803	Comm.	156	2/9/2018	Waiting on final inspection
10	RADTIP	2017052	Asheville	28801	0	919	2/13/2018	Installing
11	White Oak Grove	2017053	Asheville	28801			6/28/2019	Pre-con held, construction not yet started
12	Rock Hill Road	2017096	Asheville	28803	15	990	7/24/2018	Waiting on final inspection
13	Villa Heights	2017118	Asheville	28806	8	540	2/20/2018	Final Inspection complete, awaiting close-out docs
14	McCormick Place	2017150	Asheville	28801	17	210	8/3/2018	Waiting on final inspection
15	Wanoca Cottages	2017214	Asheville	29903	15	378	3/26/2019	Waiting on final inspection
16	Hawthorne Apartments @ Haywood	2017225	Asheville	28806	240	1,604	10/19/2018	Testing
17	17 N. Market Street	2017238	Asheville	28801	16	256	5/10/2019	Pre-con held, construction not yet started
18	Fernwood Avenue	2017251	Asheville	28806	3	368	10/30/2018	Waiting on final inspection
19	US 74 Commercial Development	2018010	Asheville	28803	4	265	5/25/2018	Pre-con held, construction not yet started
20	Sunrise Drive Homes	2018046	Asheville	28806	5	220	7/20/2018	Final Inspection complete, awaiting close-out docs
21	Alice Place Subdivision	2018066	Asheville	28803	19	480	6/19/2018	Punchlist pending
22	Oakview Park Road	2018072	Asheville	28803	3	230	1/29/2019	Pre-con held, construction not yet started
23	Old Haywood Subdivision Phase 1	2018073	Asheville	28806	79	1,770	3/19/2019	Pre-con held, construction not yet started
24	Fern Street	2018081	Asheville	28803	8	60	2/15/2019	Testing
25	Cypress Knoll Gardens	2018121	Asheville	28803	7	90	10/30/2018	Final Inspection complete, awaiting close-out docs
26	Le An Hurst Road	2018127	Asheville	28803	5	245	3/22/2019	Final Inspection complete, awaiting close-out docs
27	Tru by Hilton	2018131	Asheville	28805	1	248	1/25/2019	Installing
28	Grove Park Views	2018239	Asheville	28801	7	150	2/19/2019	Waiting on final inspection
29	Joyner Avenue	2018264	Asheville	28801	4	215	6/4/2019	Pre-con held, construction not yet started
30	West Keesler Avenue	2007176	Black Mountain	28711	6	410	11/15/2016	Final Inspection complete, awaiting close-out docs
31	808 Montreat Road	2015126	Black Mountain	28711	4	371	4/18/2017	Final Inspection complete, awaiting close-out docs
32	Avadim	2017001	Black Mountain	28711	Comm.	2,286	1/11/2019	Installing
33	Sweet Birch Lane	2017111	Black Mountain	28711	65	780	9/28/2018	Final Inspection complete, awaiting close-out docs
34	Chapman's Cove	2017227	Black Mountain	28711	10	430	9/21/2018	Waiting on final inspection
35	White Oak Circle	2018197	Black Mountain	28711	4	330	10/30/2018	Installing
36	402 Blue Ridge Road	2018206	Black Mountain	28711	6	372	2/5/2019	Pre-con held, construction not yet started
37	Hyde Park Phase 2	2013058	Buncombe Co.	28704	14	500	12/3/2013	Waiting on final inspection
38	Creekside Cottages	2014095	Buncombe Co.	28704	7	504	3/12/2015	Waiting on final inspection
39	Avondale Subdivision	2015052	Buncombe Co.	28803	4	215	4/7/2017	Final Inspection complete, awaiting close-out docs
40	Waightsill Mountain Phase 2B	2015155	Buncombe Co.	28704	16	1,784	4/23/2019	Pre-con held, construction not yet started
41	Bee Tree Village	2015158	Buncombe Co.	28778	26	1,118	3/17/2017	Waiting on final inspection
42	NC DOT I-5504 NC 191A-26 Interchange	2016132	Buncombe Co.	28806	0	355	10/23/2017	Installing
43	Bradley Branch Ph. 4	2016189	Buncombe Co.	28704	27	2,420	5/10/2019	Pre-con held, construction not yet started
44	New Salem Heights	2016192	Buncombe Co.	28778	25	816	2/13/2018	Waiting on final inspection
45	Villas of Avery Creek	2017068	Buncombe Co.	28704	270	3,170	9/18/2018	Waiting on final inspection
46	ABCCM	2017083	Buncombe Co.	28806	60	4,069	12/4/2018	Off-site portion has been installed, on-site in progress
47	240 Old Farm School Road	2017112	Buncombe Co.	28805	4	340	2/9/2018	Final Inspection complete, awaiting close-out docs
48	Sweetgrass Apartments	2018015	Buncombe Co.	28704	270	1,090	4/12/2019	Pre-con held, construction not yet started
49	Fields BMW	2018022	Buncombe Co.	28704	3	490	10/9/2018	Waiting on final inspection
50	Rosscraggon Road Subdivision	2018048	Buncombe Co.	28704	4	370	4/20/2018	Final Inspection complete, awaiting close-out docs
51	The Ramble Block I	2018050	Buncombe Co.	28803	39	7,316	12/4/2018	Installing
52	Upper Grassy Branch Road	2018087	Buncombe Co.	28805	6	250	8/31/2018	Waiting on final
53	412 Ridge Street	2018111	Buncombe Co.	28715	4	275	5/7/2019	Pre-con held, construction not yet started
54	Bee Tree Road	2018115	Buncombe Co.	28778	6	240	12/18/2018	Waiting on final
55	New Riparian	2018156	Buncombe Co.	28778	5	275	9/28/2018	Waiting on final inspection
56	Cedar Lane	2018164	Buncombe Co.	28704	9	145	3/22/2019	Pre-con held, construction not yet started
57	The Preserve at Avery's Creek Phase 2	2018188	Buncombe Co.	28704	141	4,000	6/16/2017	Waiting on final inspection
58	Biltmore Lake Block I-4	2018226	Buncombe Co.	28715	27	1,770	3/12/2019	Testing
59	Wheeler Road	2017019	Weaverville	28787	72	1,535	3/28/2018	Final Inspection complete, awaiting close-out docs
60	44 Central Ave	2017107	Weaverville	28787	7	275	10/27/2017	Final Inspection complete, awaiting close-out docs
61	Ambler's Chase	2017249	Weaverville	28787	21	1,235	11/29/2018	Testing
62	Northridge Commons Townhomes	2018082	Weaverville	28787	53	1,380	4/9/2019	Pre-con held, construction not yet started
63	Maple Trace Ph. 4	2018214	Weaverville	28787	35	1,265	5/24/2019	Pre-con held, construction not yet started
64	Crest Mountain Phase 3B	2013041	Woodfin	28806	69	1,329	10/15/2013	Punchlist pending, awaiting closeout documents (roadwork remaining)
65	Reese & Jan Lasher (High Hopes)	2015152	Woodfin	28806	14	320	4/26/2016	Final Inspection complete, awaiting close-out docs
66	Olivette Development-Phase 1 Gravity	2016065	Woodfin	28804	356	1,155	3/29/2018	Installing
67	Olivette Pump Station/Force Main	2016213	Woodfin	28804	356	1,740	2/27/2018	Installing
68	Ricky Robinson Property	2017088	Woodfin	28804	1	385	7/31/2018	Final Inspection complete, awaiting close-out docs
69	Apple Lane	2017130	Woodfin	28804	4	60	8/31/2018	Pre-con held, construction not yet started
70	88 North Merrimon Avenue	2017196	Woodfin	28804	Comm.	455	5/11/2018	Waiting on final inspection
71	Olivette Gravity Phase 2	2018116	Woodfin	28804	94	12,406	11/27/2018	Installing
72	Skylin-Terraces at Reynolds Mtn -Phase 3&4	2018187	Woodfin	28804	22	845	8/8/2017	Waiting on final inspection and phasing
73	Brown Avenue	2018267	Woodfin	28804	3	62	7/2/2019	Installing
			TOTAL			3,066	75,029	