

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**November 21, 2018**

**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 2:02 pm Wednesday, November 21, 2018. Chairman VeHaun presided with the following members present: Ashley, Bryson, Holland, Kelly, Manheimer, Pressley, Root, Watts, Whitesides and Wisler. Pelly was absent.

Others present were: Thomas E. Hartye, PE, General Manager; William Clarke, General Counsel; Forrest Westall with McGill Associates; Joseph Martin, with Woodfin Sanitary Water and Sewer District; Ed Bradford, Scott Powell, Jim Hemphill, Ken Stines, Hunter Carson, Peter Weed, Matthew Walter and Pam Nolan, MSD.

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

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

**3. Approval of Minutes of the October 17, 2018 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the October 17, 2018 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. VeHaun welcomed Joe Martin with Woodfin Sanitary Water & Sewer District. There was no public comment.

**6. Report of General Manager:**

Mr. Hartye reported that attached is an email from Heath Alexander, Social Studies Teacher at Enka High School expressing appreciation for the plant tour and the vital work that MSD performs in helping keep the river clean for recreation. Thanks to Roger Edwards and Dwayne Martin who conduct these tours.

Mr. Hartye thanked employees in general who donated \$18,831.00 to the United Way this year, to Jim Hemphill for heading up the campaign and Owen Herbert for handling the golf tournament.

Mr. Hartye reported that approximately a year ago MSD presented to the Board that MSD and the Town of Black Mountain received matching grants from

the Golden Leaf Foundation and the U.S. Department of Commerce EDA. These grants were awarded for water and sewer respectively for a total of \$1,655,160.00, for Avadim Technologies, Inc. at the Black Mountain Commerce Park. The Bid Opening for this work was held November 1, 2018 with the apparent low bidder being Cooper Construction with a bid of \$1,529,738.00, which is within the grant budget. The construction for water and sewer is slated to be complete in December 2019.

Mr. Hartye reported that the next regular Board Meeting will be held on December 19<sup>th</sup> at 2:00 pm. The next Right of Way Committee meeting will be held on November 28<sup>th</sup> at 9 am.

**7. Consolidated Motion Agenda:**

**a. Consideration of Bids: Avery Creek Pump Station Improvements:**

Mr. Hartye reported that the original pump station was installed in 1981 and has performed well over the years. Due to continued growth in this area, the station needs to be upsized to accommodate future demands. This project will double the current capacity of the station, up to 1.08 mgd. The contract was first advertised and two bids were received on Thursday, October 4, 2018. The project was therefore re-advertised and three bids were received on Friday, October 12, 2018 as follows: Frizzell Construction Company in the amount of \$657,700.00, McClam & Associates Inc. in the amount of \$558,000.00 and NHM Constructors, LLC in the amount of \$513,420.00. The apparent low bidder is NHM Constructors, LLC with a bid amount of \$513,420.00. NHM has completed numerous MSD projects and they are currently working on the Plant Headworks Project. Their work quality has been excellent to date. The FY 18-19 Construction Budget for this project is \$500,000.00. Sufficient funds are available within the CIP budget for the overage. Staff recommends award of this contract to NHM Constructors, LLC in the amount of \$513,420.00, subject to review and approval by District Counsel.

**b. Consideration of Bids: Old West Chapel Road Sanitary Sewer Rehabilitation Project:**

Mr. Hartye reported that this project is located in the Oakley area near I-40 and consists of replacing problematic clay and PVC lines that are in poor structural condition and have triggered many SSO's. This is the longest sewer rehabilitation project this year, consisting of over 5,000 LF. It is comprised of 1,786 LF of 8-inch and 12-inch HDPE installed by pipe bursting and 3,404 LF of 8-inch DIP installed by traditional Dig and Replace. The contract was advertised and four bids were received on November 1, 2018 as follows: McClam & Associates in the amount of \$1,266,881.25, Buckeye Bridge LLC in the amount of \$1,234,442.00, Thomas Construction Company in the amount of \$1,229,660.00 and Terry Brothers Construction Company in the amount of \$982,155.00. The apparent low bidder is Terry Brothers Construction Company with a bid amount of \$982,155.00. Terry Brothers has completed numerous MSD sewer projects

and their work quality has remained excellent to date. The FY18-19 Construction Budget for this project is \$1,400,000.00. Staff recommends award of this contract to Terry Brothers Construction Company in the amount of \$982,155.00, subject to review and approval by District Counsel.

**c. Consideration of Developer Constructed Sewer Systems: Carolina Day School – Athletic Field Complex; Ingles Gas Express #44 – Oteen; Isaac Dickson Elementary:**

Mr. Hartye reported that the Carolina Day School project consisted of extending approximately 1,635 linear feet of 8-inch public gravity sewer to serve the school's athletic complex and future development.

Mr. Hartye reported that the Ingles Gas Express #44 project is located off Tunnel Road in the City of Asheville and included extending approximately 131 linear feet of 8-inch public gravity sewer to serve the commercial development.

Mr. Hartye reported that the Isaac Dickson Elementary School project is located off Hill Street in the City of Asheville and included extending approximately 715 linear feet of 8-inch public gravity sewer and abandoning approximately 1,200 linear feet of public gravity sewer to serve the new school.

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

**d. First Quarter Budget to Actual Review – FY 2019**

Mr. Powell reported that Page 29 presents the District's Budget to Actual Revenue and Expenditure report for September 30, 2018. Domestic User Fees are at budgeted expectations. Industrial User Fees are better than budgeted expectations due to temporary increased revenue from one industrial user. Facility and Tap Fees are above budgeted expectations due to receiving approximately \$640,000.00 from one developer. Interest and miscellaneous income are above budgeted expectations due to short term interest rates being higher than what was anticipated for the fiscal year. O&M expenditures are at 32.2% of budget. They include encumbered amounts (approximately \$1 Million), which has elevated the budget to actual above 25%. Bond principal and interest expenditures are reflected at 25%. This will aid the user to properly assess debt service commitments on a budgetary perspective. Actual amount spent as of the end of the first quarter is 2.2%. This is due to the timing of the District's debt service payments. Amounts budgeted for capital equipment and capital projects are rarely expended proportionately throughout the year.

**e. Cash Commitment/Investment Report Month ended September, 2018:**

Mr. Powell reported that Page 31 presents the makeup of the District's Investment Portfolio. There has not been a significant change in the makeup of

the portfolio from the prior month. Page 32 is the MSD's Investment Manager's report for the month of September. The weighted average maturity of the investment portfolio is 132 days. The yield to maturity is 2.09%. Page 43 presents the District's Variable Debt Service report. The 2008 A Series is performing at budgeted expectations. As of the end of October the issue has saved the District customers approximately \$5.6 million in debt service since April, 2008.

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

**9. Old Business:**

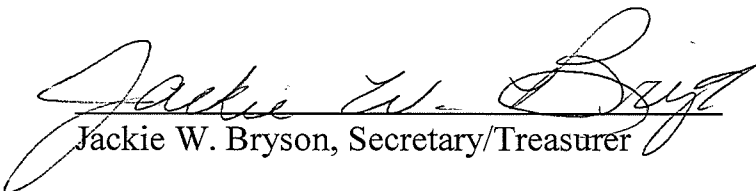
None

**10. New Business:**

Mr. Watts stated that he really appreciated the fact that if you call MSD, someone answers the phone, can answer your question or can find who you are calling for if they are not in their office. After dealing with companies that chase you around through 800 numbers and ask a lot of questions, he stated that he really appreciated Tom and what MSD has with Angela out front.

**11. Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:15 pm.

  
Jackie W. Bryson, Secretary/Treasurer

# MSD

## Regular Board Meeting

Metropolitan Sewerage District  
of Buncombe County, NC

### AGENDA FOR 11/21/18

✓	Agenda Item	Presenter	Time	
	Call to Order and Roll Call	VeHaun	2:00	
	01. Inquiry as to Conflict of Interest	VeHaun	2:05	
	02. <a href="#">Approval of Minutes of the October 17, 2018 Board Meeting</a>	VeHaun	2:10	
	04. Discussion and Adjustment of Agenda	VeHaun	2:15	
	05. Informal Discussion and Public Comment	VeHaun	2:20	
	06. <a href="#">Report of General Manager</a>	Hartye	2:25	
	07. Consolidated Motion Agenda	Hartye	2:40	
	a. Consideration of Bids: <a href="#">Avery Creek Pump Station Improvements</a>	Hartye		
	b. Consideration of Bids: <a href="#">Old West Chapel Road Sanitary Sewer Rehabilitation Project</a>	Hartye		
	c. Consideration of Developer Constructed Sewer Systems: <a href="#">Carolina Day School - Athletic Field Complex; Ingles Gas Express #44 – Oteen; Isaac Dickson Elementary</a>	Hartye		
	d. <a href="#">First Quarter Budget to Actual Review – FY2019</a>	Powell		
	e. <a href="#">Cash Commitment Investment Report-Month ended September, 2018</a>	Powell		
	09. Old Business:	VeHaun	3:00	
	10. New Business:	VeHaun	3:05	
	11. Adjournment: (Next Meeting 12/19/18)	VeHaun	3:10	
	<a href="#">STATUS REPORTS</a>			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**October 17, 2018**

**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 2:08 pm Wednesday, October 17, 2018. Chairman VeHaun presided with the following members present: Ashley, Bryson, Holland, Kelly, Manheimer, Pelly, Pressley, Watts, Whitesides and Wisler. Root was absent.

Others present were: Thomas E. Hartye, PE, General Manager; William Clarke, General Counsel; Forrest Westall with McGill Associates; Jon Lapsley with CDM Smith; Joseph Martin, with Woodfin Sanitary Water and Sewer District; Ed Bradford, Scott Powell, Pam Thomas, Jim Hemphill, Angel Banks, Ken Stines, Hunter Carson, Mike Stamey, Roger Edwards and Pam Nolan, MSD.

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

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

**3. Approval of Minutes of the September 19, 2018 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the September 19, 2018 Board Meeting. Mr. Pelly moved for approval of the minutes as presented. Mr. Watts 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. VeHaun welcomed Jon Lapsley with CDM Smith and Joe Martin with Woodfin Sanitary Water & Sewer District. There was no public comment.

**6. Report of General Manager:**

Mr. Hartye reported that attached is a letter of appreciation from the NCWaterWARN regarding the services of MSD's John Gosnell at the State Emergency Operations Center during Hurricane Florence. In addition, Ken Stines, as MSD's representative and a Regional Coordinator, has been very instrumental in keeping this emergency response organization strong and relevant.

Mr. Hartye reported that attached is a recap of the Town Branch sewer main failure spill response by MSD. MSD's emergency response and clean up went above and beyond what any other utility would have which is why the French Broad River was back to normal the next day. Thanks to Ken Stines, Mike Stamey, Jason Capizzi and RL Haynes who all lead the effort of more than 30 personnel working 12 plus hour days for several days, right through the weekend.

Mr. Hartye reported that attached is a list of accomplishments by department for the 2018 Fiscal year. He stated that he wanted to highlight just a few of many. The Engineering Division administered over \$28 million in projects with in-house personnel which amounts to about 129 projects over the 10-year CIP. They administered the construction phase of the Plant Headworks project which is anticipated to be complete by the end of this winter. They managed and completed the design of the High Rate Primary Treatment which is included in today's agenda. They designed, drafted and administered formal contracts for 19 capital projects and 45 in-house projects for System Services Construction. The Construction Administration group provided inspection services for 16 Collection System CIP projects, 10 Water Reclamation Facility projects and 73 Planning & Development related sewer extensions. One of the bigger inspection projects to note includes the South French Broad Interceptor lining project. In-House Construction rehabilitated 20,151 LF of main sewer line, handled all emergency responses, cleared 42,500 LF of sewer line right of way and utilized Trenchless Technologies for over 8,200 LF of mainline repairs. They also completed 508 emergency and scheduled construction repairs. The Finance Division received a credit upgrade from Moody's Investor Service from Aa1 to Aaa. They received the GFOA "Excellence in Financial Reporting" award for the Comprehensive Annual Financial Report and GFOA "Distinguished Budget" award for the FY 18 Budget Document. System Services cleaned over 200 miles (1,052,000 LF) of pipeline with in-house crews, CCTV'd over 295,000 LF of sewer lines and achieved a 31-minute average response time during working hours and nights and weekends. Human Resources continued with on-site Mission Hospital staff, treating chronic conditions using the Asheville Project; implemented the Arc Flash glove program and began the "Smith System" defensive driving program. The IT Division expanded Cityworks report library for multiple divisions, upgraded to the latest Navision accounting software and replaced all the cameras on campus.

Mr. Hartye reported that the MSD/United Way Golf Tournament will be held on October 25<sup>th</sup> at 9 am at the Black Mountain Golf Course. The October Right of Way Committee meeting has been cancelled. The next Right of Way Committee meeting will be held on November 28<sup>th</sup> at 9 am. The next regular Board Meeting will be held on November 21<sup>st</sup> at 2 pm.

**7. Consolidated Motion Agenda:**

**a. Consideration of Bids: Plant High Rate Primary Treatment Project:**

Mr. Hartye reported that right now MSD is in the midst of the Plant Headworks Project which consists of the new bar screens, fine screens, grit-removal and surge system. The Plant High Rate Primary Treatment Project will add a new chemically enhanced primary treatment facility to further remove BOD and solids. This project will help with future regulations and extend the life of the existing RBC's for another 5-10 years. The contract was advertised and four bids were received on September 13, 2018 as follows: Adams-Robinson Enterprises, Inc. in the amount of \$21,224,000.00, Wharton-Smith, Inc. in the amount of \$17,480,008.00, Judy Construction Co. in the amount of \$15,302,000.00 and Shook Construction Co. in the amount of \$15,071,000.00.

The apparent low bidder is Shook Construction Co. with a bid amount of \$15,071,000.00. Shook has not worked on previous District projects; therefore, Staff and CDM Smith checked references. The responses were positive regarding their performance and work. There were some difficulties that were worked out and owners stated that they would employ Shook again. The Construction Budget for this project is \$15,090,000.00 over three fiscal years. A Capital Project Ordinance for this project is included in this agenda item. This ordinance authorizes funding over multiple fiscal years in the amount of \$15,715,575.00. This amount includes the contract cost, the construction administration cost which will be discussed in the next item and other estimated expenditures as shown on the FY18-19 project budget. Staff recommends award of this contract to Shook Construction Co. in the amount of \$15,071,000.00, and the approval of the attached Capital Project Ordinance, subject to review and approval by District Counsel.

**b. Consideration of Construction Administration Contract: Plant High Rate Primary Treatment Project:**

Mr. Hartye reported that CDM Smith is the District's consulting engineer for this project. They were awarded the design contract at the August 17, 2016 regular board meeting and have performed well. MSD's construction staff are experienced and will perform most of the daily on-site inspection work; however, CDM Smith will still be needed to perform specialized tasks and services. Given their performance and experience with this project, CDM Smith is the most qualified consultant to perform the construction administration services. Staff has negotiated CDM Smith's original fee down to \$624,656.00 for these services over the estimated 22-month construction period. This fee equates to 4.1% of the construction contract and Staff believes this is a fair price. The construction administration budget for this project totals \$603,000.00 over three fiscal years. Expenditures will begin this fiscal year and end in FY20-21 upon project completion. The Capital Project Ordinance in the previous agenda item will authorize project expenditures over multiple years. Staff recommends award of the Construction Administration Contract to CDM Smith in the amount of \$624,656.00, subject to review and approval by District Counsel.

**c. Consideration of Bids: South French Broad Interceptor Lining Project, Phase III:**

Mr. Hartye reported that this project is located within the Biltmore Estate along the 36-inch interceptor. This major line serves southern portions of the District's service area including Cane Creek Water & Sewer District in northern Henderson County as well as Arden and other areas in the south. This project is comprised of lining the interceptor with Cured-in-Place-Pipe (CIPP), which will further extend the future service life of this existing line. The existing concrete line is in good structural condition but has suffered some degradation of the inner surface due to hydrogen sulfide. MSD will be designing and constructing another relief interceptor parallel to this line in the future and have been working with the Estate on that project. The sections to be lined under this contract total 5,111 LF. MSD Staff continue to work closely with Biltmore



Estate staff to schedule this work during the slower winter season. The contract was advertised and five bids were received on October 4, 2018 as follows: Am-Liner East, Inc. in the amount of \$1,471,108.00, Insituform Technologies, LLC in the amount of \$1,125,267.00, IPR Southeast, LLC in the amount of \$1,084,778.00, SAK Construction, LLC in the amount of \$1,055,648.00 and Granite Inliner, LLC in the amount of \$1,044,679.00. The apparent low bidder is Granite Inliner, LLC with a bid amount of \$1,044,679.00. Granite is one of the nation's largest CIPP contractors; however, they have not previously performed work for MSD. Staff therefore checked references, and all were positive, stating that they would work with Granite again. The FY18-19 Construction Budget for this project is \$1,071,000.00. Staff recommends award of this contract to Granite Inliner, LLC in the amount of \$1,044,679.00, subject to review and approval by District Counsel.

**d. Consideration of Developer Constructed Sewer Systems: Baldwin Road; New Homes @ North Main; Peregrine's Ridge; Swannanoa Valley Christian Ministry Apartments:**

Mr. Hartye reported that the Baldwin Road project consisted of extending approximately 1740 linear feet of 8-inch public gravity sewer to serve the 62 unit residential townhome development.

Mr. Hartye reported that the New Homes @ North Main project is located off North Main Street in the Town of Weaverville and included extending approximately 1,742 linear feet of 8-inch public gravity sewer to serve the 46 unit single family residential development.

Mr. Hartye reported that the Peregrine's Ridge Court project is located off Southcliff Parkway in Buncombe County and included extending approximately 632 linear feet of 8-inch public gravity sewer to serve the 14 unit single family residential development.

Mr. Hartye reported that the Swannanoa Valley Christian Ministry Apartments project is located off Montreat Road in the Town of Black Mountain. This project included extending approximately 194 linear feet of 8-inch public gravity sewer to serve the 10 unit affordable housing development. The estimated cost of this sewer construction is \$14,300.00. This project also qualifies for the District's Cost Recovery Reimbursement for the lesser of the construction cost or five years' estimated revenue. The estimated revenue for five years is \$12,307.00. Staff recommends acceptance of this system and to authorize the General Manager to disburse \$12,307.00 to Swannanoa Valley Christian Ministry Inc.

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

**e. Cash Commitment/Investment Report Month ended August, 2018:**

Mr. Powell reported that Page 58 presents the makeup of the District's Investment Portfolio. There has not been a significant change in the makeup of the portfolio from the prior month. Page 59 is the MSD's Investment Manager's report for the month of August. The weighted average maturity of the investment portfolio is 119 days. The yield to maturity is 2.04%. Page 60 presents the analysis of the District's Cash Receipts. Monthly and YTD Industrial and Facility and Tap fees are considered reasonable based on historical trends and timing of cash receipts. Page 61 presents the District's analysis of expenditures. Monthly and YTD expenditures are considered reasonable based on timing and historical trends. Page 62 presents the District's Variable Debt Service report. The 2008 A Series is performing at budgeted expectations. As of the end of September the issue has saved the District customers approximately \$5.6 million in debt service since April, 2008.

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

**9. Old Business:**

At 2:28 pm, Mr. Watts moved the Board go into closed session to discuss a possible settlement in the condemnation of MSD vs. Russel Cate. Mr. Pelly seconded the motion. Voice vote in favor of the motion was unanimous. Mr. Bradford, Ms. Banks, Mr. Stamey and Ms. Nolan were also present for the discussion.

At 2:32 pm, the Board went back into open session.

Mr. Watts made the motion to accept Counsel's recommendation to settle the pending condemnation of MSD vs. Russel Cate in the amount of \$30,500.00. Ms. Wisler seconded the motion. Voice vote in favor of the motion was unanimous.

**10. New Business:**

None

**11. Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:34 pm.

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Jackie W. Bryson, Secretary/Treasurer

Metropolitan Sewerage District of Buncombe County, North Carolina  
Closed Session Minutes  
October 17, 2018

Mr. VeHaun called for a motion to go into Closed Session at 2:28 pm. to discuss a possible settlement in the condemnation of MSD vs. Russel Cate. Mr. Watts moved and Mr. Pelly seconded the motion. Voice vote in favor of the motion was unanimous. Mr. Bradford, Ms. Banks, Mr. Stamey and Ms. Nolan were also present for the discussion.

Mr. Clarke reported that this condemnation is on the Nebraska Street Emergency Project and a map was presented showing site location and easement information. The parcel consists of two rental houses with a sewerline running under one of those houses. MSD's appraiser valued the easement area at \$9,215.00, which was deposited with the Court. Mr. Cate authorized his attorney to settle for \$40,000.00. MSD has countered back with \$21,000.00. They have now come back with an offer of \$30,500.00 to settle this condemnation which is splitting the value of their \$40,000.00 and MSD's \$21,000.00. Mr. Clarke stated that there have been very little expenses incurred by MSD and he would recommend settling this case in the amount of \$30,500.00, which would include the \$9,500.00 MSD has deposited with the Buncombe County Clerk of Court.

There were no questions.

Mr. Vahaun called for a motion to go back into Open Session at 2:32 pm. Mr. Watts made the motion, Mr. Pressley seconded the motion.



## MEMORANDUM

TO: MSD Board  
FROM: Thomas E. Hartye, P.E., General Manager  
DATE: November 16, 2018  
SUBJECT: Report from the General Manager

- Kudos
  - Attached is an email from Heath Alexander, Social Studies Teacher at Enka H.S. expressing appreciation for the plant tour and the vital work that MSD performs in helping keep the river clean for recreation.
  - To MSD employees in general who donated \$18,831 to the United Way and to Jim Hemphill and Owen Herbert for heading up the campaign and the golf tourney this year.
  
- Avadim Economic Development Project Update

MSD and the Town of Black Mountain received matching grants from the Golden Leaf Foundation and from U.S. Dept. of Commerce EDA for \$827,580 each for a total of \$1,655,160. These grants were awarded to install water and sewer facilities for Avadim Technologies, Inc. at the Black Mountain Commerce Park. The Bid opening for this work was held November 1<sup>st</sup> with the apparent low bidder being Cooper Construction with a bid of \$1,529,738, which is within the grant budget. The water and sewer construction is slated to be complete in December 2019.

Avadim Technologies, Inc. is a life sciences company that has developed a new class of life sciences solutions based on Pathogenesis Based Therapies (“PBTs”) using a targeted topical delivery systems that are non-toxic and are effective without the side effects of other remedy approaches.

- Board/Committee Meetings/Events

The next Regular Board Meeting will be held on December 19<sup>th</sup> at 2 pm. The next Right of Way Committee meeting will be held on November 28<sup>th</sup> at 9am.

**Subject:** FW: Thank you

**Date:** Friday, November 9, 2018 at 10:03:46 AM Eastern Standard Time

**From:** Thomas Hartye

**From:** Heath Alexander [<mailto:lee.alexander@bcsemail.org>]

**Sent:** Thursday, November 8, 2018 5:22 PM

**To:** Edwards, Roger; Harvey, Nick

**Subject:** Thank you

Roger,

Thank you so much for taking so much time out of your schedule to talk to my students. I thought your tour was fantastic! I really appreciate that you are willing to spend that kind of time helping young people understand the vital work MSD does. I really think they got a lot out of it and perhaps a new career direction! Please convey my thanks to Dwayne as well. I loved his tour and was absolutely blown away by the depth of his knowledge and expertise of the ins and outs of the plant.

I teach this class every semester and I would love to bring my next group of students if you will have us again! You guys are really doing awesome work. Also, as a hopelessly addicted kayaker who runs French Broad Section 9 through Marshall at least once a week, I feel really indebted to you for keeping the water clean - I spend a lot of time upside down in it!

-Heath

L. Heath Alexander, MAT  
Social Studies  
Enka High School  
828-670-5000 Ext. 255

*"We can do that...we don't even need a reason."  
-Bill Murray, Caddyshack*

# Metropolitan Sewerage District of Buncombe County

## BOARD ACTION ITEM

**BOARD MEETING DATE:** November 21, 2018

**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 Bids for Avery Creek Pump Station Improvements, MSD Project No. 2018008

**BACKGROUND:** The Avery Creek Pump Station serves a significant area within the unincorporated Avery Creek area of Buncombe County. The original pump station was installed in 1981 and has performed well over the years. Due to the continued growth in this area, the station must be upsized to accommodate current and future demands.

This project will approximately double the current capacity of the station, to 1.08 mgd. New pumps and controls, soft-starters, a flow meter, a larger genset, and bypass improvements will be added to accommodate growth in this area well into the future. A grinder and vault were requested after budget preparation. These were added as a bid alternate - with the favorable pricing received, staff recommends proceeding with this option.

The contract was first advertised and two bids were received on Thursday, October 4, 2018. The project was therefore readvertised and three bids were received on Friday October 12, 2018 as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Frizzell Construction Co.	\$657,700.00
2) McClam & Associates, Inc.	\$558,000.00 (*)
<b>3) NHM Constructors, LLC</b>	<b>\$513,420.00</b>

(\*) Bid disqualified due to improper bid form.

The apparent low bidder is NHM Constructors, LLC with a bid amount of \$513,420.00. NHM has completed numerous MSD projects and they are currently working on the Plant Headworks Project. Their work quality has been excellent to date.

Please refer to the attached documentation for further details.

**FISCAL IMPACT:** The FY18-19 Construction Budget for this project is \$500,000.00. Sufficient funds are available within the CIP budget for the overage.

**STAFF RECOMMENDATION:** Staff recommends award of this contract to NHM Constructors, LLC in the amount of \$513,420.00, subject to review and approval by District Counsel.

*METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA*

**Avery's Creek Pump Station Improvements**

**Project No. 2018008**

**BID TABULATION**

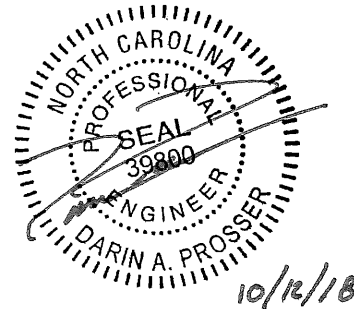
**October 12, 2018**

<b>BIDDER</b>	<b>Bid Bond</b>	<b>MBE Form</b>	<b>Bid Forms (Proposal)</b>	<b>TOTAL BID AMOUNT</b>
Frizzell Construction Company Bristol, TN	5%	2	Yes	\$657,700.00
McClam & Associates, Inc. Little Mountain, SC	5%	1	*	\$558,000.00
<b>NHM Constructors, LLC</b> <b>Asheville, NC</b>	<b>5%</b>	<b>1</b>	<b>Yes</b>	<b>\$513,420.00</b>

**APPARENT LOW BIDDER**

\* Contractor did not submit the correct bid form, per Addendum No. 2; therefore, their bid is disqualified.

Darin Prosser, 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 11:00 AM on the 12th day of October, 2018, 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. The project was first scheduled to be bid on October 4, 2018. Only 2 bids were received; therefore, the project was re-advertised.

# Interoffice Memorandum

**TO:** Tom Hartye, General Manager

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

**DATE:** October 12, 2018

**RE:** Avery Creek Pump Station Improvements, MSD Project No. 2018008

Avery Creek Pump Station is an essential pump station in South Asheville. The pump station receives a majority of the flow from the Avery Creek area. The improvements to the pump station will include three (3) 750 GPM 50 HP pumps (one spare pump), control panel with soft starts, generator set including automatic transfer switch, upgrading the electrical service and components to 480 volts, a flow monitor, 30 L.F. of 4-inch DIP, DIP fittings and valves, and a grinder within a vault. The grinder and vault were an alternate bid item due to being added to the project after the budget was established.

The improvements to the Avery Creek 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 1.08 MGD. This will maximize the pumps station's current wetwell and forcemain design that will meet the demands of current and future projected flows.

The project was advertised and two (2) bids were received on October 4<sup>th</sup>, 2018 at 2:30 p.m. The project was therefore re-advertised and three (3) bids were received on October 12, 2018 at 11:00 a.m. in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) Frizzell Construction Co.	\$ 657,700.00
2) McClam & Associates, Inc.	\$ 558,000.00 (*)
<b>3) NHM Constructors, LLC</b>	<b>\$ 513,420.00</b>

(\*) Bid is disqualified due to the use of an improper bid form.

The apparent low bidder is NHM Constructors, with a bid amount of \$513,420.00. The FY18-19 construction budget for this project is \$500,000.00. The bid exceeds budgeted funds due to MSD's Pump Station Maintenance Staff requesting that the grinder be installed in a vault upstream of the pump station's wetwell, which was added after budget preparation.

NHM Constructors, LLC has an extensive history completing plant and pump station projects with excellent workmanship and quality. Staff recommends award of this contract to NHM Constructors, LLC contingent upon review and approval by District Counsel.



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

**BUDGET DATA SHEET - FY 2018 - 2019**

PROJECT: Avery Creek PS Improvements	LOCATION: Arden
TYPE: Pump Station Improvements	PIPE RATING: N/A
PROJECT NO.: 2018008	TOTAL LF: 0
PROJECT BUDGET: \$500,000.00	PROJECT ORIGIN: Capacity Improvements

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/17	EST. COST JAN - JUNE 2018	EST. BUDGET FY 18-19
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	\$500,000.00			\$500,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING				
55450 - SURVEY - ASBUILT				
<b>TOTAL AMOUNT</b>	<b>\$500,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$500,000.00</b>

ENGINEER: MSD	DP	<b>ESTIMATED BUDGETS - FY 20 - 28</b>	
R.O.W. ACQUISITION:	# PLATS: [ 0 ]	FY 19-20	\$0.00
CONTRACTOR:		FY 20-21	\$0.00
CONSTRUCTION ADM.:	MSD	FY 21-22	\$0.00
INSPECTION:	MSD	FY 22-23	\$0.00
		FY 23-24	\$0.00
		FY 24-25	\$0.00
PROJECT DESCRIPTION: This project is located in Arden off of Glenn Bridge Rd. This pump station is receiving flows over the design capacity and needs to be upgraded to meet current and future flows. Significant upgrades will be necessary to accommodate much larger pumps.		FY 25-26	\$0.00
		FY 26-27	\$0.00
		FY 27-28	\$0.00
			\$0.00

**SPECIAL PROJECT NOTES:**



**Avery Creek Pump Station Improvements  
Project No. 2018008**

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:** November 21, 2018

**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 Bids: Old West Chapel Road Sanitary Sewer Rehabilitation Project, MSD Project No. 2014004

**BACKGROUND:** This project is located in the Oakley area, along multiple streets near I-40. It consists of replacing problematic clay and PVC lines that are in poor structural condition and have triggered multiple SSO's.

The total project length is 5,190 LF - this is the longest sewer rehabilitation project in the FY18-19 CIP. It is comprised of 1,786LF of 8-inch and 12-inch HDPE installed by pipe bursting, and 3,404 LF of 8-inch DIP installed by traditional Dig & Replace.

The contract was advertised and four bids were received on November 1, 2018 in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) McClam & Associates	\$1,266,881.25
2) Buckeye Bridge, LLC	\$1,234,442.00
3) Thomas Const. Co.	\$1,229,660.00
<b>4) Terry Brothers Const. Co.</b>	<b>\$ 982,155.00</b>

The apparent low bidder is Terry Brothers Construction Co. with a bid amount of \$982,155.00. Terry Brothers has completed numerous MSD sewer rehabilitation projects, and their work quality has remained excellent to date. Their bid is approximately 20% less than the closely grouped top three. Staff believes this is due to Terry Brothers' desire to promptly secure new work.

Please refer to the attached documentation for further details.

**FISCAL IMPACT:** The FY18-19 Construction Budget for this project is \$1,400,000.00.

**STAFF RECOMMENDATION:** Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$982,155.00, subject to review and approval by District Counsel.

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

**Old West Chapel Road Sewer Rehabilitation**

**Project No. 2014004**

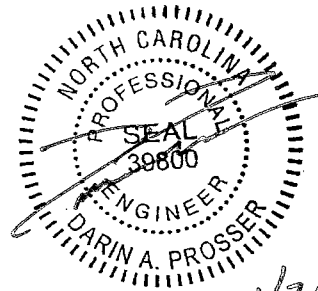
**BID TABULATION**

**November 1, 2018**

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
McClam & Associates Little Mountain, SC	5%	1	Yes	\$1,266,881.25
Buckeye Bridge LLC Canton, NC	5%	1	Yes	\$1,234,442.00
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$1,229,660.00
<b>Terry Brothers Construction Co.</b> <b>Leicester, NC</b>	<b>5%</b>	<b>1</b>	<b>Yes</b>	<b>\$982,155.00</b>

**APPARENT LOW BIDDER**

Darin Prosser, 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 PM on the 1st day of November, 2018, 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  
Darin Prosser, Project Manager

**DATE:** November 1, 2018

**RE:** Old West Chapel Road Sewer Rehabilitation, MSD Project No. 2014004

This project is located in the Oakley area of east Asheville beginning at Crayton Rd., running north and south of I-40 along several streets. North of I-40, the project will run along Crayton Rd. to Liberty St. and along Old West Chapel Rd., W. Raleigh Rd., and Pisgah View Ave. South of I-40, the project runs along School Rd., Harris Rd., Oakley Dogwood Dr., and Wentworth Ave.

The project is approximately 5,190 LF consisting of 904 LF of 12-inch HDPE, 882 LF of 8-inch HDPE, and 3,404 LF of 8-inch DIP. Construction methods will be pipe bursting for the HDPE lines and dig & replace for the DIP lines. The existing lines are in poor condition and undersized with a history of overflows. This project has a relatively high pipe rating of 53.

On November 1, 2018, four (4) sealed bids were received at 2:00 pm. Results were as follows:

<u>Contractor</u>	<u>Bid</u>
1) McClam & Associates	\$1,266,881.25
2) Buckeye Bridge, LLC	\$1,234,442.00
3) Thomas Construction Co.	\$1,229,660.00
<b>4) Terry Brothers Const Co.</b>	<b>\$ 982,155.00</b>

The FY18-19 construction budget for this project is \$1,400,000.00.

Terry Brothers Construction Company is the apparent low bidder for this contract with a bid amount of \$982,155.00. Staff believes that Terry Brothers' bid amount is significantly lower than the others due to their aggressive bid pricing and desiring more work. Their pipe prices were approximately \$154,000.00 less than the second lowest bidder. Also, there were two bid items relating to soil conditions that were priced at \$0.10 per unit price. Terry Brothers is familiar with the project site from a previous project in the same area.

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 2018 - 2019**

<b>PROJECT:</b>	<b>Old West Chapel Road</b>	<b>LOCATION:</b>	<b>Asheville</b>
<b>TYPE:</b>	<b>General Sewer Rehab.</b>	<b>PIPE RATING:</b>	<b>53</b>
<b>PROJECT NO.</b>	<b>2014004</b>	<b>TOTAL LF:</b>	<b>5,200</b>
<b>PROJECT BUDGET:</b>	<b>\$1,560,000.00</b>	<b>PROJECT ORIGIN:</b>	<b>SSO's, Work Orders, Line Condition</b>

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/17	EST. COST JAN - JUNE 2018	BUDGET FY 18-19
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$34,000.00	\$33,720.00	\$280.00	
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$14,000.00	\$11,050.00	\$2,950.00	
55370 - LEGAL FEES	\$14,000.00	\$5,484.00	\$8,516.00	
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION	\$65,000.00		\$50,000.00	\$15,000.00
55400 - APPRAISAL	\$6,000.00			\$6,000.00
55410 - CONDEMNATION	\$10,000.00			\$10,000.00
55420 - CONSTRUCTION	\$1,400,000.00			\$1,400,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$2,000.00			\$2,000.00
55450 - SURVEY - ASBUILT	\$15,000.00			\$15,000.00
<b>TOTAL AMOUNT</b>	<b>\$1,560,000.00</b>	<b>\$50,254.00</b>	<b>\$61,746.00</b>	<b>\$1,448,000.00</b>

<b>ENGINEER:</b>	MSD	DP	<b>ESTIMATED BUDGETS - FY 20 - 28</b>	
<b>R.O.W. ACQUISITION:</b>	MSD	# PLATS: [ 14 ]	FY 19-20	\$0.00
<b>CONTRACTOR:</b>			FY 20-21	\$0.00
<b>CONSTRUCTION ADM:</b>	MSD		FY 21-22	\$0.00
<b>INSPECTION:</b>	MSD		FY 22-23	\$0.00
			FY 23-24	\$0.00
			FY 24-25	\$0.00
<b>PROJECT DESCRIPTION:</b> This project is located near the intersection of Sweeten Creek Rd. and I-40. The existing 8-inch and 10-inch clay pipe will be replaced with 8-inch ductile iron pipe and 8-inch and 12-inch HDPE. There have been multiple sanitary sewer overflows on this line. This project will consist of replacing the existing pipes by pipe bursting and dig & replace.			FY 25-26	\$0.00
			FY 26-27	\$0.00
			FY 27-28	\$0.00

**SPECIAL PROJECT NOTES:** Majority of the original project was completed under 2015218 Lining Contract No. 8.



**Old West Chapel Road  
Project No. 2014004**

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:** November 21, 2018

**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 Carolina Day School Athletic Field Complex, MSD Project No. 2007090

**BACKGROUND:** This project is located inside the District boundary off Sweeten Creek Road in Buncombe County. The developer of the project is Carolina Day School, Inc.

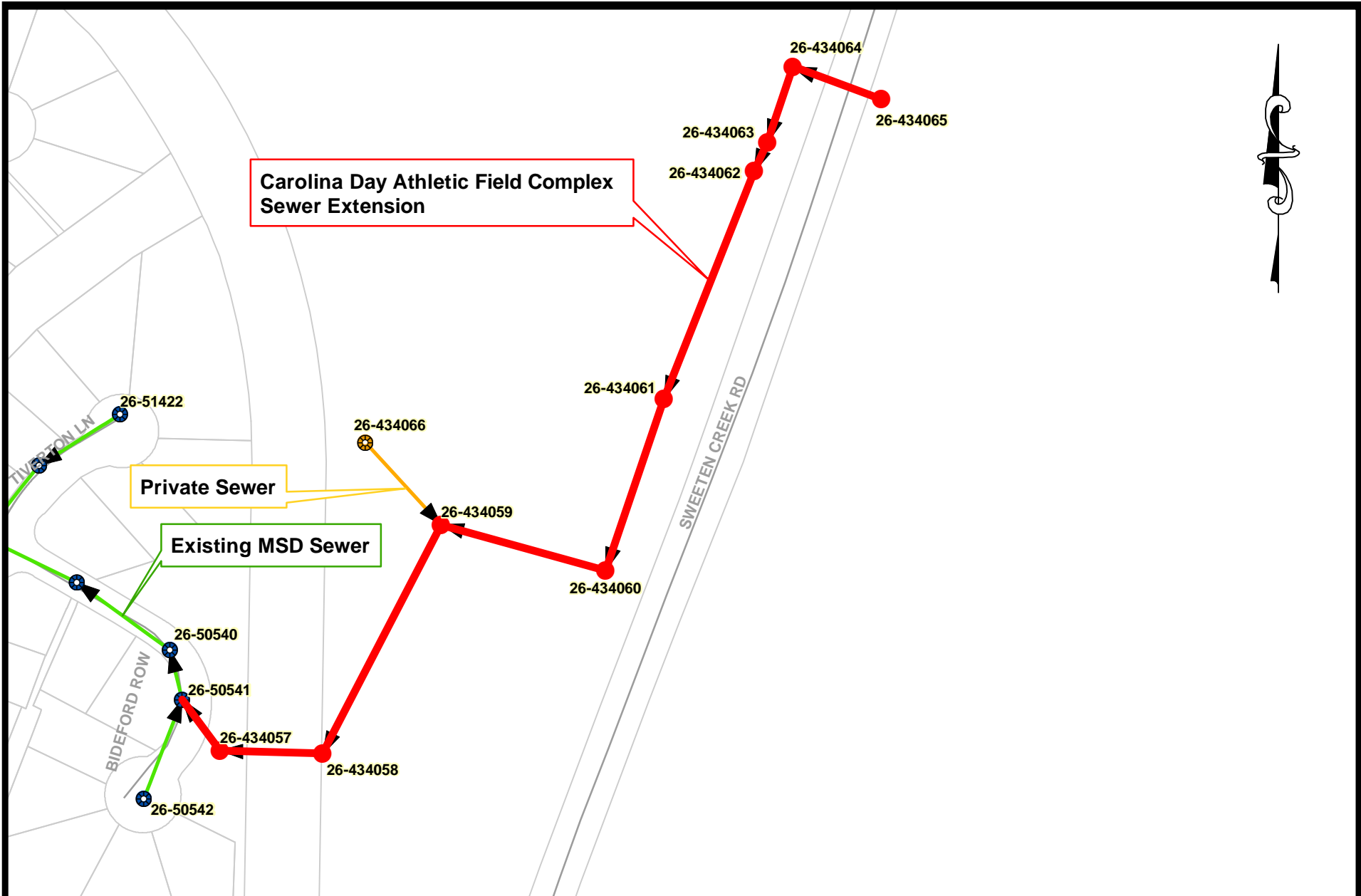
The project included extending approximately 1,635 linear feet of 8-inch public gravity sewer to serve the school's athletic complex and future development.

A wastewater allocation was issued in the amount of 6,000 GPD for the project. The estimated cost of the sewer construction is \$94,300.00.

All MSD requirements have been met.

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





**MSD**  
Engineering Division

**Carolina Day Athletic Field Complex Sewer Extension  
MSD Project # 2007090**

Metropolitan Sewerage District of Buncombe County

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** November 21, 2018

**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 #4 – Oteen Gas Express, MSD Project No. 2010070

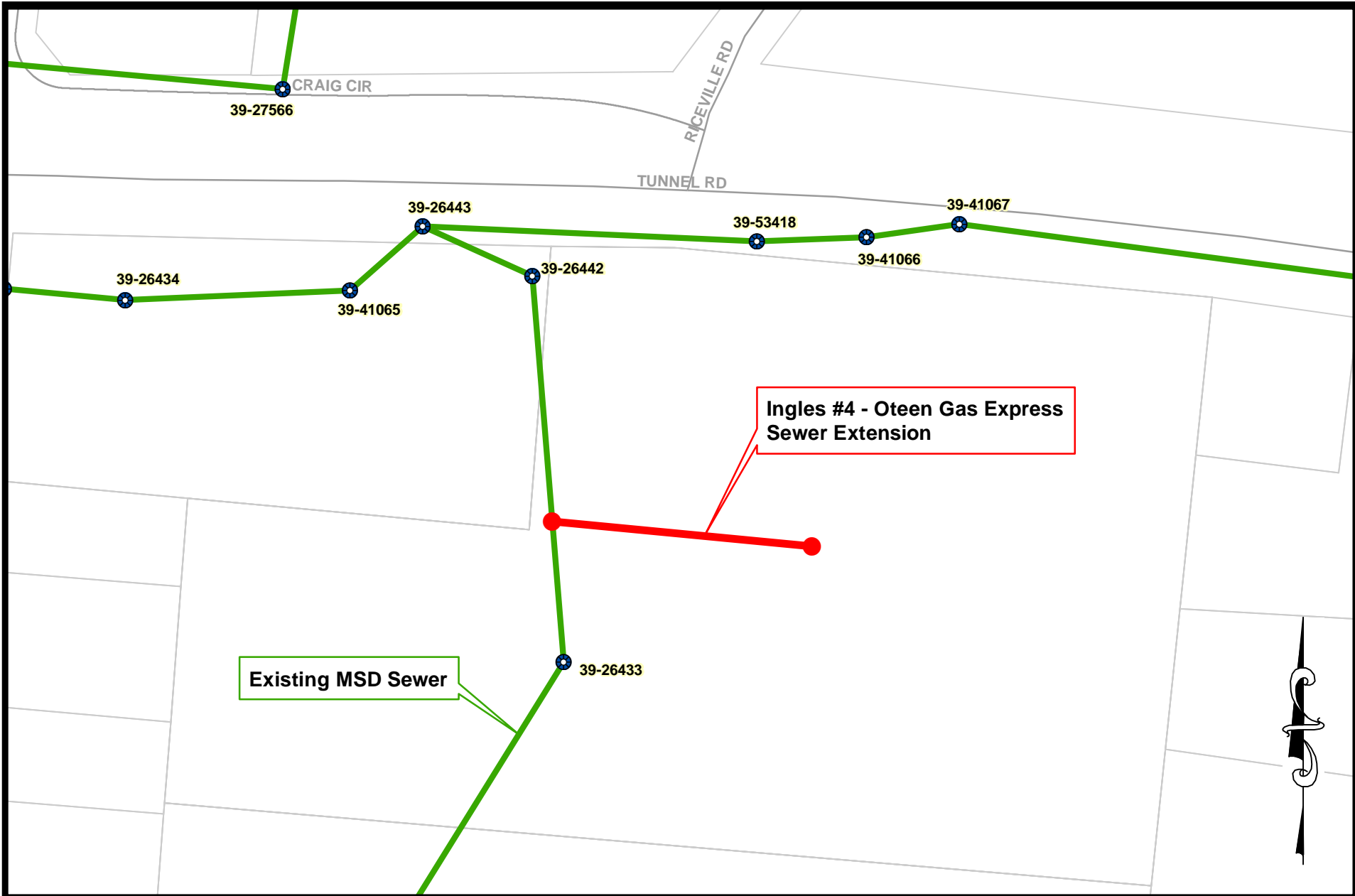
**BACKGROUND:** This project is located inside the District boundary off Tunnel Road in the City of Asheville. The developer of the project is W. R. Jameson of Ingles Markets, Inc.

The project included extending approximately 131 linear feet of 8-inch public gravity sewer to serve the commercial development.

A wastewater allocation was issued in the amount of 100 GPD for the project. The estimated cost of the sewer construction is \$20,000.00.

All MSD requirements have been met.

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



**MSD**  
Engineering Division

**Ingles #4 - Oteen Gas Express Sewer Extension  
MSD Project # 2010070**

Metropolitan Sewerage District of Buncombe County

11/8/18

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** November 21, 2018

**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 Isaac Dickson Elementary School, MSD Project No. 2013033

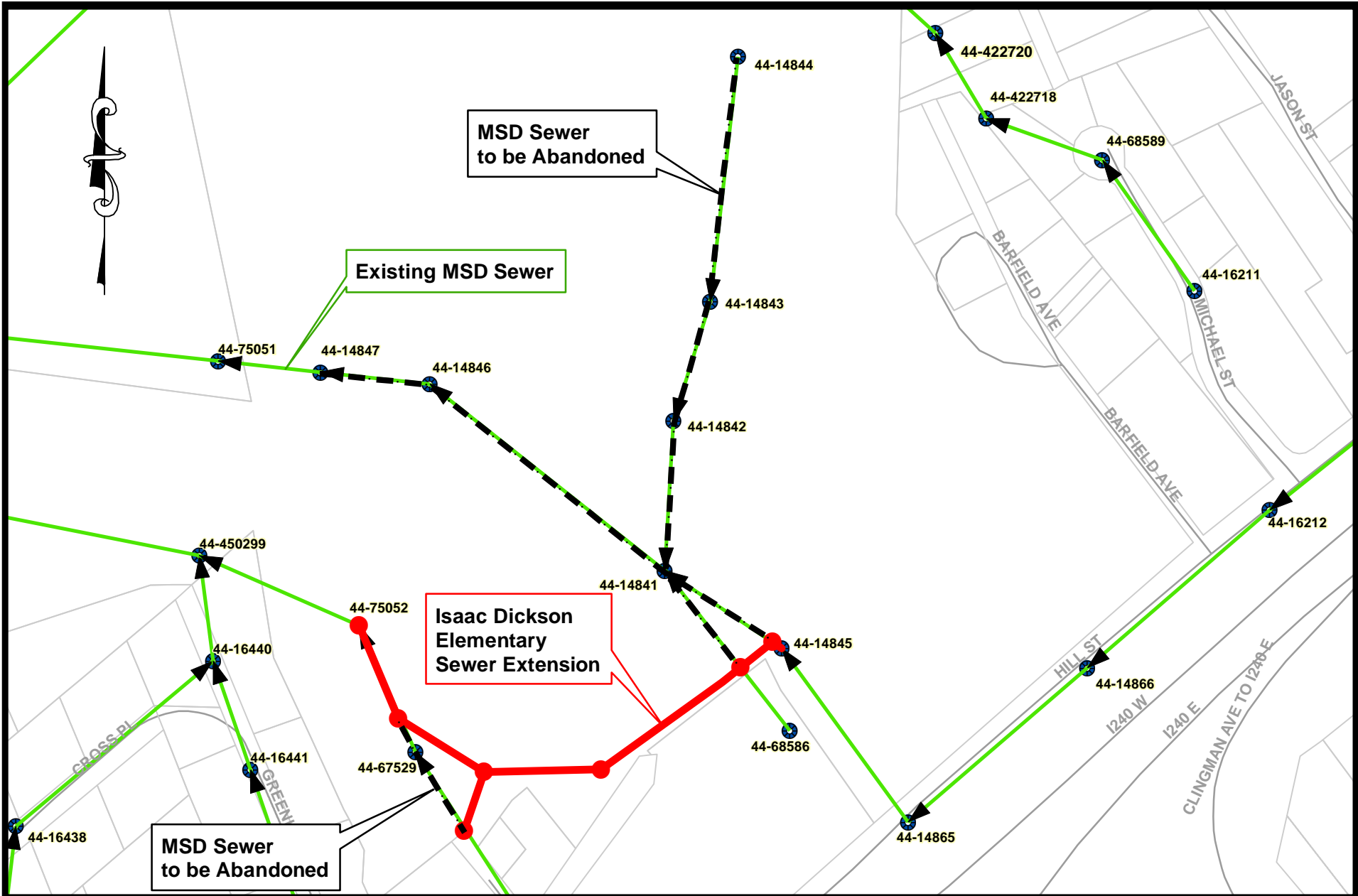
**BACKGROUND:** This project is located inside the District boundary off Hill Street in the City of Asheville. The developer of the project is Asheville City Schools.

The project included extending approximately 715 linear feet of 8-inch public gravity sewer along with abandonment of approximately 1,200 linear feet of public gravity sewer to serve the new school.

A wastewater allocation was issued in the amount of 750 GPD for the project. The estimated cost of the sewer construction is \$57,000.00.

All MSD requirements have been met.

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



**MSD**  
Engineering Division

**Isaac Dickson Elementary Sewer Extension**  
**MSD Project # 2013033**  
Metropolitan Sewerage District of Buncombe County

5/03/18

# Metropolitan Sewerage District of Buncombe County

## BOARD INFORMATIONAL ITEM

**Meeting Date:** November 21, 2018  
**Submitted By:** Thomas E. Hartye, PE., General Manager  
**Prepared By:** W. Scott Powell, CLGFO, Director of Finance  
**Subject:** First Quarter Budget to Actual Review – FY2019

### Background

At the end of each quarter, actual revenue and expenditure amounts are compared with the budget to evaluate performance. This information is based on cash revenues and invoices received prior to September 30, 2018 and may not include some accruals of revenue and expenditures.

### Discussion

There are several explanatory notes at the bottom of the attached Budget to Actual schedule. Other considerations are as follows:

- ◀ Domestic Revenue is at budget expectations. Industrial Revenue is better than budgeted expectations temporary increased revenue from one industrial user. Staff Monitors consumption trends as they have a direct effect on the District's current revenue projections.
- ◀ Facility and Tap Fees are budgeted conservatively. The unusually large variance as of the end of the first quarter is due to receiving unanticipated revenue of \$640,000 from one development.
- ◀ Interest and miscellaneous income are below budgeted expectations. Short-term interest rates are still experiencing pressures due to Federal Reserve monetary policy.
- ◀ Rental income reflects slightly better than expected earnings.
- ◀ O&M expenditures are at 32.15% of budget. The expenditures include encumbered amounts, which has elevated the budget to actual ratio above 25%. The aforementioned encumbrances will be spent in future quarters.

Meeting Date: November 21, 2018  
Subject: First Quarter Budget to Actual Review – FY2019  
Page 2

**Discussion**(continued)

- ◀ Bond principal and interest are reflected at 25%. This will aid the user to properly assess the District’s overall debt service commitments. Actual amount spent is 2.17%. The District is required to make semi-annual interest payments on December 1, 2018 and principal and semi-annual interest payments on July 1, 2019.
- ◀ Amounts budgeted for capital equipment and capital projects are rarely expended proportionately throughout the year and are expected to be fully spent prior to the end of the year.

**Staff Recommendation**

None - Information Only.

<u>Action Taken</u>			
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**  
**Budget to Actual Revenue and Expenditure Report**  
For the twelve months ended September 30, 2018  
UNAUDITED--NON-GAAP

	Budget	Actual to Date	% Budget to Actual
<b>REVENUES</b>			
Domestic User Fees <sup>1</sup>	\$ 32,431,584	\$ 8,120,734	25.04%
Industrial User Fees	3,422,373	1,012,956	29.60%
Facility Fees <sup>2</sup>	2,000,000	1,309,218	65.46%
Tap Fees <sup>3</sup>	175,000	186,850	106.77%
Billing and Collection	816,660	201,152	24.63%
Interest and Misc. Income	1,164,716	421,561	36.19%
Employee Contribution to Health Ins.	421,467	86,888	20.62%
City of Asheville (Enka Bonds)	35,000	-	0.00%
Rental Income	71,641	12,589	17.57%
Use of (Contributions to) Available Funds <sup>4</sup>	<u>10,243,546</u>	<u>6,501,526</u>	<u>63.47%</u>
<b>Total Revenues<sup>5</sup></b>	<b><u>\$ 50,781,987</u></b>	<b><u>\$ 17,853,475</u></b>	<b>35.16%</b>
<b>EXPENDITURES</b>			
Operations and Maintenance <sup>6</sup>	\$ 16,875,154	\$ 5,425,893	32.15%
Bond Principal and Interest <sup>7</sup>	9,448,115	2,362,029	25.00%
Capital Equipment (Other than O&M) <sup>6</sup>	966,000	104,498	10.82%
Capital Projects <sup>6</sup>	22,492,718	9,961,055	44.29%
Contingency	<u>1,000,000</u>	<u>-</u>	<u>0.00%</u>
<b>Total Expenditures</b>	<b><u>\$ 50,781,987</u></b>	<b><u>\$ 17,853,475</u></b>	<b>35.16%</b>

**Notes:**

- ① Revenues are accounted for on the cash basis method
- ② Increase due to unanticipated revenue from one (1) development at \$640,000
- ③ Increase in number of Taps requiring Pavement Disturbance
- ④ Pay-as-go funds to be used for CIP
- ⑤ Budget-to-Actual Ratio does not include use of available funds
- ⑥ Includes encumbered amounts as well as actual insurance expenditures
- ⑦ Bond principal and interest expenditures are reflected a 25%. Actual spend amount is 2.17%.



# Metropolitan Sewerage District of Buncombe County

## BOARD INFORMATIONAL ITEM

**Meeting Date:** November 21, 2018

**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 September 30, 2018

### 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 September 30, 2018 were \$72,286,589. The detailed listing of accounts is available upon request. The average rate of return for all investments is 1.547%. 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 September 30, 2018 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of September 30, 2018 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$25,212,812.

<b>Total Cash &amp; Investments as of 09/30/2018</b>		72,286,589
<i>Less:</i>		
<b>Budgeted Commitments (Required to pay remaining FY19 budgeted expenditures from unrestricted cash)</b>		
Construction Funds	(19,497,815)	
Operations & Maintenance Fund	(13,062,805)	
		(32,560,620)
<b>Bond Restricted Funds</b>		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(54,379)	
FY19 Principal & Interest Due	(9,139,310)	
		(9,193,689)
<b>District Reserve Funds</b>		
Fleet Replacement	(561,355)	
Pump Replacement	(150,157)	
WWTP Replacement	(284,870)	
Maintenance Reserve	(976,721)	
		(1,973,103)
<b>District Insurance Funds</b>		
General Liability	(33,181)	
Worker's Compensation	(249,667)	
Post-Retirement Benefit	(1,781,483)	
Self-Funded Employee Medical	(1,282,034)	
		(3,346,365)
<b>Designated for Capital Outlay</b>		<u>25,212,812</u>

Meeting Date: November 21, 2018

Subject: Cash Commitment/Investment Report-Month Ended September 30, 2018

Page 2

### Staff Recommendation

None - Information Only.

#### Action Taken

Motion by: \_\_\_\_\_ to  Approve  Disapprove  
Second by: \_\_\_\_\_  Table  Send to Committee  
Other: \_\_\_\_\_  
Follow-up required: \_\_\_\_\_  
Person responsible: \_\_\_\_\_ Deadline: \_\_\_\_\_



Meeting Date: November 21, 2018

Subject: Cash Commitment/Investment Report-Month Ended September 30, 2018

Page 4

**Metropolitan Sewerage District  
INVESTMENT MANAGERS' REPORT  
At September 30, 2018**

**Summary of Asset Transactions**

	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 66,981,318	\$ 67,069,097	\$ 94,705
Capital Contributed (Withdrawn)	(812,341)	(812,341)	
Realized Income	75,686	75,686	(19,031)
Unrealized/Accrued Income		(29,702)	28,764
Ending Balance	<u>\$ 66,244,663</u>	<u>\$ 66,302,740</u>	<u>\$ 104,438</u>

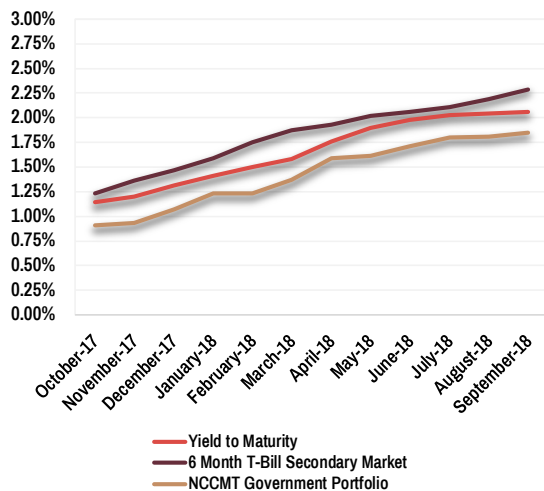
**Value and Income by Maturity**

	Original Cost	Income
Cash Equivalents <91 Days	\$ 45,773,142	\$ 38,499
Securities/CD's 91 to 365 Days	12,472,944	\$ 10,491
Securities/CD's > 1 Year	7,998,578	\$ 6,727
	<u>\$ 66,244,663</u>	<u>\$ 55,717</u>

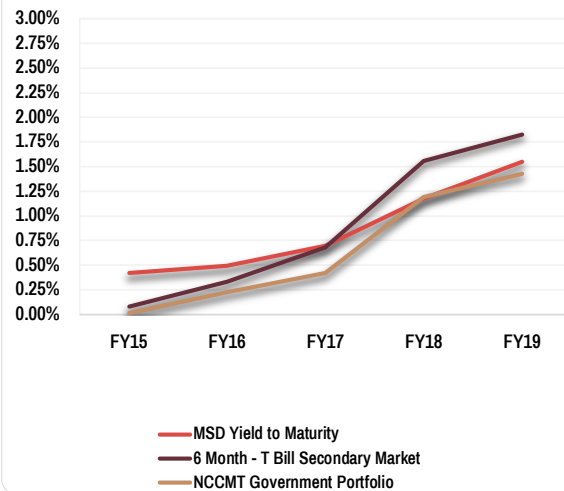
**Month End Portfolio Information**

Weighted Average Maturity	132
Yield to Maturity	2.06%
6 Month T-Bill Secondary Market	2.29%
NCCMT Government Portfolio	1.85%

**Metropolitan Sewerage District  
Yield Comparison - September 30, 2018**



**Metropolitan Sewerage District  
Annual Yield Comparison**

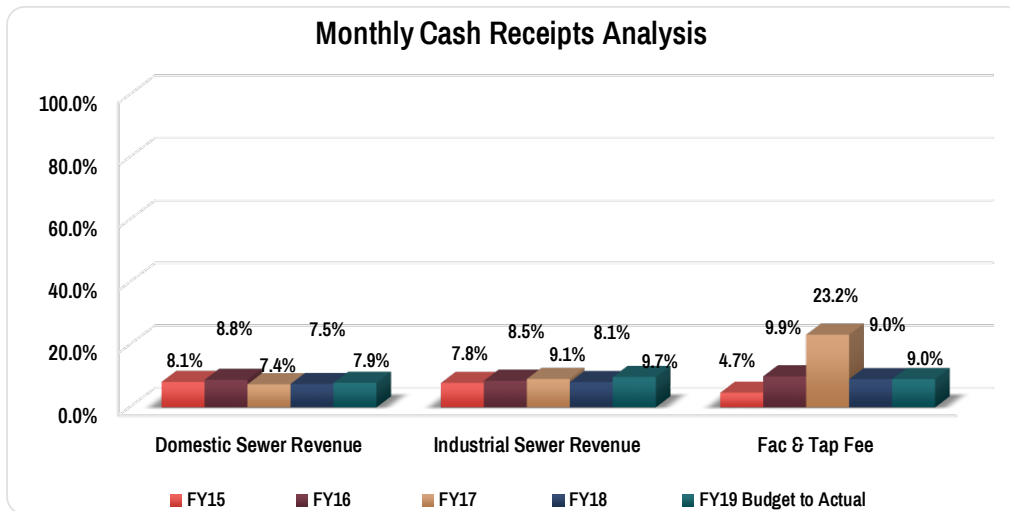


Meeting Date: November 21, 2018

Subject: Cash Commitment/Investment Report-Month Ended September 30, 2018

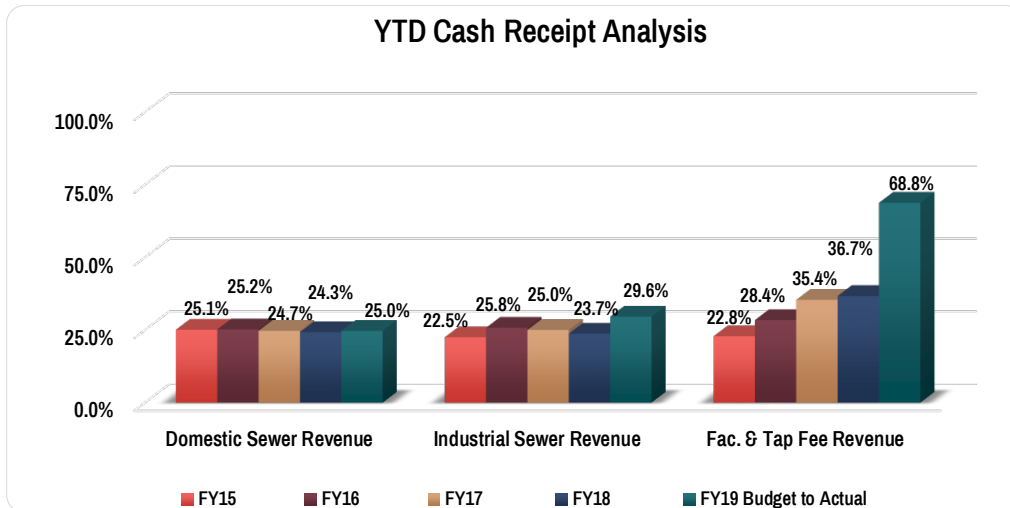
Page 5

Metropolitan Sewerage District  
ANALYSIS OF CASH RECEIPTS  
As of September 30, 2018



**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:**

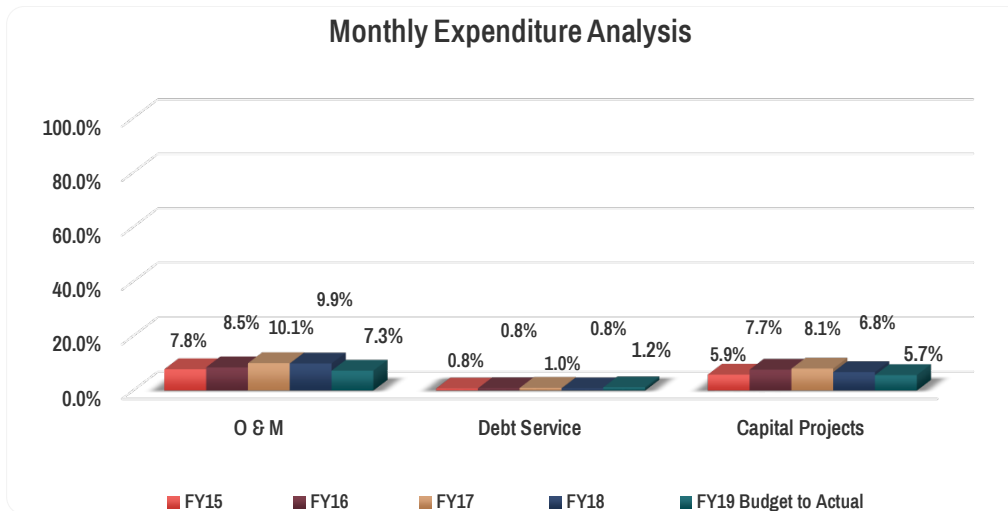
- ▶ YTD domestic sewer revenue is considered reasonable based on historical trends.
- ▶ YTD industrial sewer revenue is reasonable based on historical trends.
- ▶ Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

Meeting Date: November 21, 2018

Subject: Cash Commitment/Investment Report-Month Ended September 30, 2018

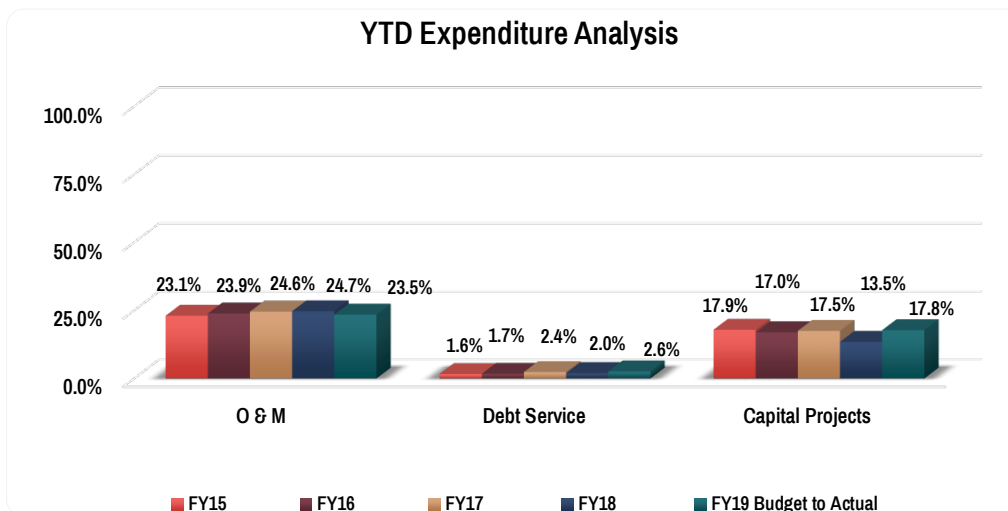
Page 6

Metropolitan Sewerage District  
**ANALYSIS OF EXPENDITURES**  
As of September 30, 2018



**Monthly Expenditure Analysis:**

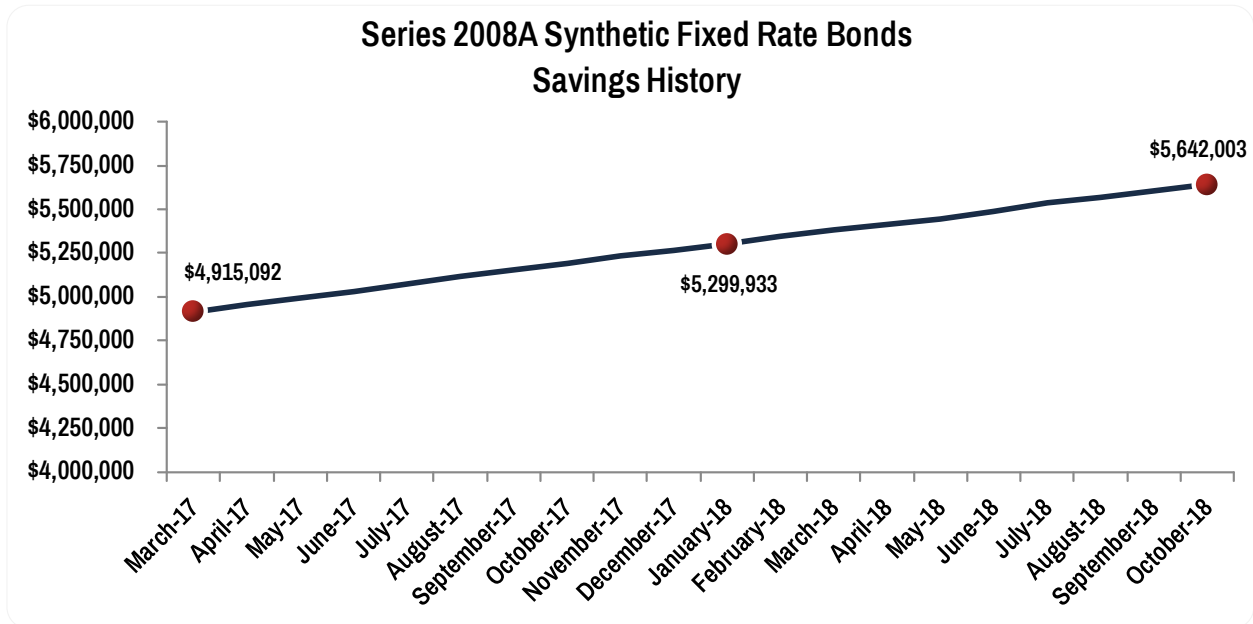
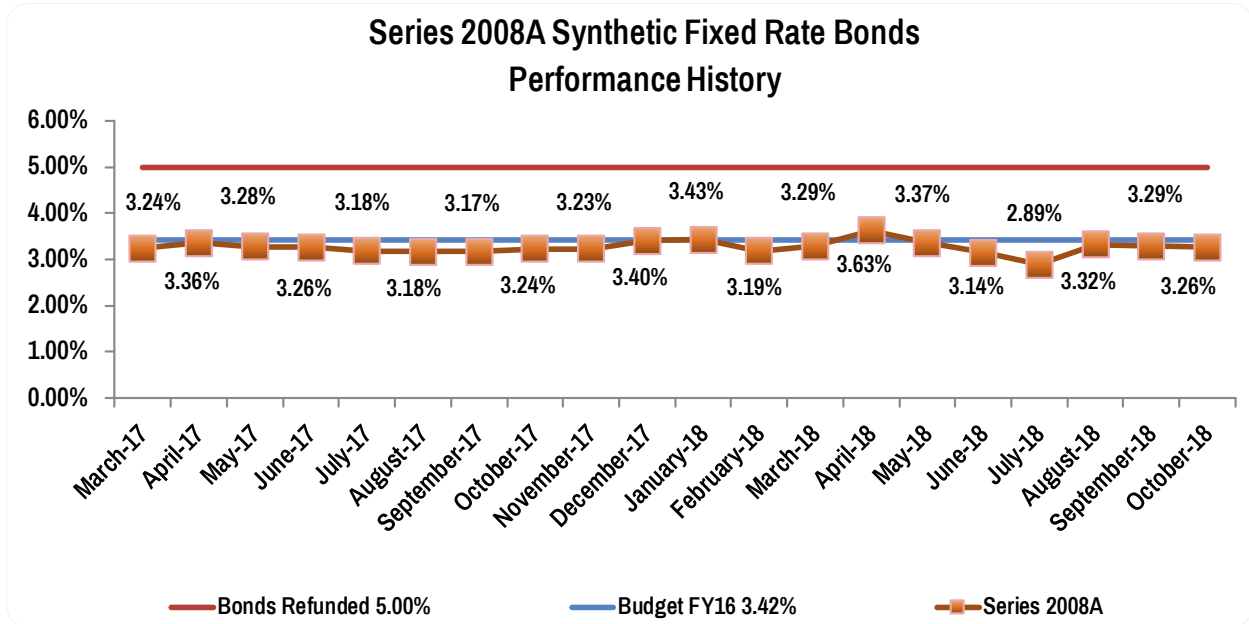
- Monthly O&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures 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 October 31, 2018



**Series 2008A:**

- \* Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$5,642,003 as compared to 4/1/2008 fixed rate of 4.85%.
- \* Assuming that 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 \$2,201,172 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
Blue Ridge Assembly Drive Sewer Replacement	Black Mountain	28711	250	10/29/18 - 11/9/18	256869	674			In Construction, 70% complete
Pearson Drive Phase 1 Sewer Rehabilitation	Asheville	28801	900	11/5/18 - 12/15/18	2566676	631			ROW clearing underway
Kanawha Drive GSR	Montreat	28757	495	11/1/18 - 12/1/18	255722	674			ROW clearing underway
28 Roebing Circle Sewer Rehabilitation	Asheville	28803	600	12/2/18 - 1/2/19	256370	674			Ready for construction
70 Hampton Street Sewer Replacement	Asheville	28803	273	FY 18-19	256291	TBA			Ready for construction
Laurel Road Phase 2B	Arden	28704	1078	FY 18-19	250366	TBA			Ready for construction
Vandalia Ave Sewer Rehabilitation	Asheville	28806	1325	FY 18-19	248041	TBA			Ready for construction
500 Laurel Avenue Sewer Rehabilitation	Black Mountain	28711	230	FY 18-19	247281	TBA			Ready for construction
77 Dellwood Street Sewer Rehabilitation	Asheville	28804	200	FY 18-19	237568	TBA			Ready for construction
106 Seventh St Sewer Rehabilitation	Black Mountain	28711	200	FY 18-19	225198	TBA			Ready for construction
Old Patton Cove Road @ US 70 Hwy	Swannanoa	28778	1021	FY 18-19	255611	TBA			Ready for construction
Saint Johns Street Force Main Replacement	Arden	28704	1040	FY 18-19	238516	TBA			Ready for construction
26 Wilshire Drive Sewer Rehabilitation	West Asheville	28806	1478	FY 18-19	235158	TBA			in ROW
149 State Street Sewer Rehabilitation	Asheville	28806	265	FY 18-19	237791	TBA			In ROW
Waynensville Avenue at Brownwood	Asheville	28806	370	FY 18-19	247283	TBA			In ROW
350 Old Haw Creek Road Sewer Rehabilitation	Asheville	28805	1537	FY 18-19	47802	TBA			In Design
12 Mayflower Drive Sewer Rehabilitation	Asheville	28804	350	FY 18-19	247347	TBA			In Desin
Beardon Ave at Cumberland Ave	Asheville	28801	425	FY 18-19	247286	TBA			Preliminary Engineering
Barnard Avenue at Lookout Sewer Rehabilitation	Asheville	28804	200	FY 18-19	236089	TBA			Preliminary Engineering
55 Congress Street Sewer Rehabilitation	Asheville	28801	823	FY 18-19	247631	TBA			Preliminary Engineering
East Grovestone Quarry Sewer Rehabilitation	Black Mountain	28711	780	FY 18-19	213459	TBA			Preliminary Engineering



## CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2018 to 9/30/2018

	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	28	8	328	986	23	34	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	450	0	216	1317	11	0	1533
<b>Grand Totals</b>	<b>76</b>	<b>24</b>	<b>603</b>	<b>3,198</b>	<b>68</b>	<b>111</b>	<b>22,145</b>	<b>0</b>	<b>1214</b>	<b>2945</b>	<b>42</b>	<b>988</b>	<b>5147</b>

\* Used to calculate Total Rehab Footage



## PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2018 to September 30, 2018

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
<b>2018</b>							
<b>July</b>	78,545	1,208	693	79,238	23,634	0	1,683
<b>August</b>	67,431	1,082	1,765	69,196	35,905	35,328	23,056
<b>September</b>	61,707	856	8,164	69,871	17,818	300	12,942
<b>Grand Total:</b>	<b>207,683</b>	<b>3,146</b>	<b>10,622</b>	<b>218,305</b>	<b>77,357</b>	<b>35,628</b>	<b>37,681</b>
<b>Avg Per Month:</b>	<b>69,228</b>	<b>1,049</b>	<b>3,541</b>	<b>72,768</b>	<b>25,786</b>	<b>11,876</b>	<b>12,560</b>



## CUSTOMER SERVICE REQUESTS

### Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
<b>DAY 1ST RESPONDER</b>				
	July, 2018	97	20	35
	August, 2018	127	28	30
	September, 2018	75	21	40
		<b>299</b>	<b>24</b>	<b>34</b>
<b>NIGHT 1ST RESPONDER</b>				
	July, 2018	11	17	25
	August, 2018	19	15	23
	September, 2018	13	21	20
		<b>43</b>	<b>17</b>	<b>23</b>
<b>ON-CALL CREW *</b>				
	July, 2018	44	46	54
	August, 2018	37	41	40
	September, 2018	31	34	44
		<b>112</b>	<b>41</b>	<b>46</b>
<b>Grand Totals:</b>		<b>454</b>	<b>27</b>	<b>36</b>

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

**CAPITAL IMPROVEMENT PROGRAM**

**STATUS REPORT SUMMARY**

**November 14, 2018**

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	TBD	TBD	TBD	TBD	TBD	0%	Bids were opened on October 12th. NHM Constructors is the apparent low bidder. Project will be presented at the November Board meeting.
DRY RIDGE ROAD (4-INCH MAIN)	Asheville 28804	Buckeye Bridge	9/19/2018	11/12/2018	1/11/2019	\$282,853.90	0%	A preconstruction meeting was held on October 15th. Work has begun.
ELKWOOD AVENUE	Woodfin	Thomas Construction Company	9/20/2017	11/6/2017	11/13/2018	\$1,226,672.00	100%	Project is complete and in close out.
HILL STREET	Asheville 28801	Terry Brothers Construction Company	7/18/2018	8/1/2018	11/28/2018	\$654,969.00	99%	Final inspection scheduled this week.
MEMORY LANE	Asheville 28805	Terry Brothers Construction Company	6/13/2018	10/1/2018	1/29/2019	\$626,774.80	60%	Construction is progressing well.
MOUNTAIN VIEW ROAD	Asheville 28805	Thomas Construction Company	2/21/2018	4/2/2018	11/5/2018	\$490,112.00	100%	Project is complete and in close out.
OLD WEST CHAPEL ROAD	Asheville 28803	TBD	TBD	TBD	TBD	TBD	0%	Bids were opened on November 1st. Terry Brothers Construction Company is the apparent low bidder. Project will be presented at the November Board meeting.
SOUTH FRENCH BROAD INTERCEPTOR - LINING (FY 18-19)	Biltmore Estate	Granite Inliner, LLC	10/17/2018	1/2/2019	4/2/2019	\$1,044,679.00	0%	A preconstruction meeting is scheduled for November 15th.
WRF - INTERMEDIATE CLARIFIER SLIDE GATES REPLACEMENT	Woodfin	NHM Constructors	9/19/2018	11/5/2018	5/4/2019	\$154,300.00	0%	A preconstruction meeting was held on October 23rd. Gates have been ordered with an anticipated construction start in January, 2019.
WRF - PLANT HEADWORKS IMPROVEMENTS	Woodfin	Judy Construction Company	1/18/2017	4/3/2017	2/25/2019	\$9,310,761.47	85%	Wiring on fine grit facility complete except lighting. Working on wash water for equipment. Overhead canopy being installed. Handrails and kick plate installation underway. Heat trace scheduled.
WRF- PLANT HIGH RATE PRIMARY TREATMENT	Woodfin	Shook Construction Company	10/17/2018	TBD	TBD	\$15,071,000.00	0%	A preconstruction meeting is scheduled for December 5th.

\*Updated to reflect approved Change Orders and Time Extensions

## Planning & Development Project Status Report

Active Construction Projects Sorted by Work Location and Project Number

November 7, 2018

#	Project Name	Project Number	Work Location	Zip Code	Units	LF	Pre-Construction Conference Date	Comments
1	Dillingham Woods	2014048	Asheville	28805	22	375	3/4/2015	Waiting on final inspection
2	First Baptist Relocation	2015032	Asheville	28801	Comm.	333	7/21/2015	Final Inspection complete, awaiting close-out docs
3	8 Sulphur Springs Road	2015116	Asheville	28806	6	80	11/22/2016	Final Inspection complete, awaiting close-out docs
4	Atkins Street	2016009	Asheville	28803	45	903	1/20/2017	Final Inspection complete, awaiting close-out docs
5	Towne Place Suites	2016012	Asheville	28801	83	342	9/11/2018	Pre-con held, construction not yet started
6	Hounds Ear (Mears Ave Cottages)	2016123	Asheville	28806	18	402	8/18/2017	Pre-con held, construction not yet started
7	Lausch Subdivision	2016153	Asheville	28805	4	248	5/16/2017	Relocation of portion of line
8	The Peaks Shopping Center	2016175	Asheville	28805	4	850	5/11/2018	Waiting on final inspection
9	Hawthorne at Mills Gap	2016222	Asheville	28803	272	442	10/3/2017	Waiting on final inspection
10	Ashecroft	2016229	Asheville	28806	40	2,450	2/20/2018	Phase 1 - testing / Phase 2 - Installing
11	Grindstaff Subdivision	2016246	Asheville	28805	4	132	6/23/2017	Final Inspection complete, awaiting close-out docs
12	Onteora	2017002	Asheville	28803	6	417	7/18/2017	Waiting on final inspection
13	Gerber Road Storage	2017049	Asheville	28803	Comm.	156	2/9/2018	Waiting on final inspection
14	RADTIP	2017052	Asheville	28801	0	919	2/13/2018	Installing
15	Panda Express	2017080	Asheville	28805	Comm.	100	9/8/2017	Waiting on final inspection
16	Rock Hill Road	2017096	Asheville	28803	15	990	7/24/2018	Pre-con held, construction not yet started
17	605 Fairview Road	2017103	Asheville	28803	10	380	5/18/2018	Waiting on final inspection
18	Beachum's Curve	2017105	Asheville	28806	34	908	7/17/2018	Installing
19	42 Old County Home Road	2017109	Asheville	28805	5	198	3/29/2018	Final Inspection complete, awaiting close-out docs
20	Villa Heights	2017118	Asheville	28806	8	540	2/20/2018	Pre-con held, construction not yet started
21	McCormick Place	2017150	Asheville	28801	17	210	8/3/2018	Waiting on final inspection
22	Westover Hills	2017177	Asheville	28801	1	105	10/6/2017	Final Inspection complete, awaiting close-out docs
23	Cisco Road	2017220	Asheville	28805	7	170	9/25/2018	Installing
24	Hawthorne Apartments @ Haywood	2017225	Asheville	28806	240	1,604	10/19/2018	Pre-con held, construction not yet started
25	Fernwood Avenue	2017251	Asheville	28806	3	368	10/30/2018	Pre-con held, construction not yet started
26	US 74 Commercial Development	2018010	Asheville	28803	4	265	5/25/2018	Pre-con held, construction not yet started
27	Sunrise Drive Homes	2018046	Asheville	28806	5	220	7/20/2018	Waiting on final inspection
28	Alice Place Subdivision	2018066	Asheville	28803	19	480	6/19/2018	Waiting on final inspection
29	Ingles Smokey Park Highway	2018074	Asheville	28806	1	1,289	4/11/2014	Installing
30	Cypress Knoll Gardens	2018121	Asheville	28803	7	90	10/30/2018	Pre-con held, construction not yet started
31	West Keesler Avenue	2007176	Black Mountain	28711	6	410	11/15/2016	Final Inspection complete, awaiting close-out docs
32	808 Montreat Road	2015126	Black Mountain	28711	4	371	4/18/2017	Final Inspection complete, awaiting close-out docs
33	Tudor Croft (aka Roberts Farm) Ph.2	2016170	Black Mountain	28711	46	1,320	1/3/2017	Phase 2A inspected, waiting on closeout docs
34	Cherokee Trail	2017065	Black Mountain	28711	4	90	8/18/2017	Final Inspection complete, awaiting close-out docs
35	Sweet Birch Lane	2017111	Black Mountain	28711	65	780	9/28/2018	Testing
36	Chapman's Cove	2017227	Black Mountain	28711	10	430	9/21/2018	Waiting on final inspection
37	White Oak Circle	2018197	Black Mountain	28711	4	330	10/30/2018	Pre-con held, construction not yet started
38	Hyde Park Phase 2	2013058	Buncombe Co.	28704	14	500	12/3/2013	Waiting on final inspection
39	Creekside Cottages	2014095	Buncombe Co.	28704	7	504	3/12/2015	Waiting on final inspection
40	Avondale Subdivision	2015052	Buncombe Co.	28803	4	215	4/7/2017	Final Inspection complete, awaiting close-out docs
41	Bee Tree Village	2015158	Buncombe Co.	28778	26	1,118	3/17/2017	Waiting on final inspection
42	Newbridge Pkwy Apts. Phase II	2016013	Buncombe Co.	28804	154	1,368	10/27/2017	Final Inspection complete, awaiting close-out docs
43	Weatherwood Subdivision	2016034	Buncombe Co.	28704	19	785	7/21/2017	Final Inspection complete, awaiting close-out docs
44	Perry Lane Apartments	2016075	Buncombe Co.	28704	120	710	11/7/2017	Waiting on final inspection
45	The Preserve at Avery's Creek	2016089	Buncombe Co.	28704	141	4,000	6/16/2017	Phase 1 complete pending closeout docs/ Phase 2 installing
46	NCDOT I-5504 NC 191/I-26 Interchange	2016132	Buncombe Co.	28806	0	355	10/23/2017	Installing
47	New Salem Heights	2016192	Buncombe Co.	28778	25	816	2/13/2018	Waiting on final inspection
48	Villas of Avery Creek	2017068	Buncombe Co.	28704	270	3,170	9/18/2018	Installing
49	Curry Court - Habitat	2017086	Buncombe Co.	28715	12	557	4/13/2018	Waiting on final inspection
50	240 Old Farm School Road	2017112	Buncombe Co.	28805	4	340	2/9/2018	Final Inspection complete, awaiting close-out docs
51	Fields BMW	2018022	Buncombe Co.	28704	3	490	10/9/2018	Installing
52	Rosscraggon Road Subdivision	2018048	Buncombe Co.	28704	4	370	4/20/2018	Waiting on final inspection
53	Upper Grassy Branch Road	2018087	Buncombe Co.	28805	6	250	8/31/2018	Installing
54	New Riparian	2018156	Buncombe Co.	28778	5	275	9/28/2018	Pre-con held, construction not yet started
55	Starview Heights	2016184	Weaverville	28787	16	Private	1/12/2018	Final Inspection complete, awaiting close-out docs
56	Wheeler Road	2017019	Weaverville	28787	72	1,535	3/28/2018	Waiting on final inspection
57	44 Central Ave	2017107	Weaverville	28787	7	275	10/27/2017	Final Inspection complete, awaiting close-out docs
58	Maple Trace Phase 2	2017160	Weaverville	28787	37	2,560	3/27/2018	Waiting on final inspection
59	Crest Mountain Phase 3B	2013041	Woodfin	28806	69	1,329	10/15/2013	Punchlist pending, awaiting closeout documents (roadwork remaining)
60	Reese & Jan Lasher (High Hopes)	2015152	Woodfin	28806	14	320	4/26/2016	Final Inspection complete, awaiting close-out docs
61	Ventana Phase 2A	2016059	Woodfin	28806	8	900	2/17/2017	Final Inspection complete, awaiting close-out docs
62	Olivette Development-Phase 1 Gravity	2016065	Woodfin	28804	356	1,155	3/29/2018	Installing
63	Olivette Pump Station/Force Main	2016213	Woodfin	28804	356	1,740	2/27/2018	River bore complete, casing installed. Station and generator on site
64	Ricky Robinson Property	2017088	Woodfin	28804	1	385	7/31/2018	Installing
65	Apple Lane	2017130	Woodfin	28804	4	60	8/31/2018	Pre-con held, construction not yet started
66	88 North Merrimon Avenue	2017196	Woodfin	28804	Comm.	455	5/11/2018	Waiting on final inspection
67	Greenwood Fields Phase 2	2018006	Woodfin	28804	158	2,200	3/9/2018	Final Inspection complete, awaiting close-out docs
			<b>TOTAL</b>		2,909	48,059		