

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
March 20, 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 2pm Wednesday, March 20, 2019. Chairman VeHaun presided with the following members present: Ashley, Bryson, Kelly, Manheimer, Pelly, Watts, Whitesides and Wisler. Holland, Pressley and Valois were absent.

Others present were: Thomas E. Hartye, PE, General Manager; William Clarke, General Counsel; Ed Bradford, Mike Stamey, Hunter Carson, Peter Weed, Scott Powell, Jim Hemphill, Ken Stines, Spencer Nay and Sheila Kilby, 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 February 20, 2019 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the February 20, 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.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

There was no discussion or public comment.

6. Report of General Manager:

Mr. Hartye reported that Ed Bradford and Mike Stamey will give a brief update of MSD's ongoing construction. This year's budget is approximately \$23.5 Million but the upcoming ten-year CIP budget is between \$310 - \$330 Million.

Mr. Bradford reported first on Plant Headworks projects. The old bar screens at the head of the plant have been replaced with new screens with closer spacing; new fine screens have been added and there is now a Vortex grit removal system which replaced the old Schreiber system. There was also a surge system added to handle peak flow conditions. This project was awarded by the Board in January 2017 with a project cost of around \$9.6 Million. The project began in Spring of 2017 and is currently at the completion stage. He presented a slide of the influent pump station and stated that all wastewater that MSD treats comes through this facility. He presented a video of the new fine screens in action, control panels and slides of the old digesters

that were re-purposed to be used for a storm surge. He also presented a slide of the demolition of the old Schreiber system.

The Plant High Rate Primary Treatment is a large project that has just started. There is no primary treatment right now after screening and grit removal. This was a tight fit with site restrictions at the plant and the way the topography lays. This project will help the downstream RBC's to work better and the plant can better adjust for peak flow, as you can ramp this process up and down. This project was awarded by the Board at the October 2018 Board Meeting with a construction cost of a little over \$15 million. Completion is expected by early 2021. Both projects combined will significantly improve the treatment process and will very importantly prepare the plant for future permitting requirements. He then presented slides and explained some smaller projects completed over the last year including the blower building and motor control center replacement, the intermediate clarifier slide gate replacement and the sodium hypochloride facility. He presented a graph showing capital investment, about 20 years' worth, at the plant. This is about \$62 Million worth of work.

Mr. Stamey first presented some slides of work on the South French Broad Interceptor Lining Project on the Biltmore Estate. This project is located on the river between Antler Hill Village and the Biltmore House. The existing interceptor on this project is a 36" concrete pipe which has had some deterioration and other issues. This project is being lined with a cured in place liner right at 5,111 linear feet. The project also consisted of rehabilitating 18 existing manholes and adding one manhole for future access. The Contractor for this work is Granite Inliner, LLC, based out of Gastonia. Completion is anticipated by April 1, 2019. The estimated cost of this work is approximately \$1 million. Ms. Manheimer asked if this was done in lieu of replacing the line. Mr. Hartye stated that, in this particular situation, MSD is currently designing a relief interceptor for future service requiring a larger line. This existing 36" line was structurally good enough to line so that we could minimize the size of the second line (relief interceptor) which will parallel this one.

Mr. Stamey also presented slides of the work in North Asheville on Dry Ridge Road which consisted of replacing approximately 907 linear feet of existing 8" line up a steep mountainside. The Contractor for this project is Buckeye Bridge Construction and the estimated cost is \$283,000.00. There was heavy vegetation in the right of way area on this project so there was a large amount of clearing. There were property owner concerns to be dealt with during the easement process which required Mr. Clarke's assistance, along with poor rock and soil conditions. Also, the heavy rains have caused storm drain and high ground water issues. Ms. Manheimer asked about a complaint from an owner who purchased property on this project after the easement was obtained and before construction. The Owner was not made aware of project from the Seller. Mr. Clarke stated that he and Staff have dealt with this owner and her lawyers extensively. She is really mad at the people who sold her the property. Ms. Manheimer asked if we were obligated once the property changes owners, not legally, but as a good will practice. Mr. Clarke stated that

both of her lawyers have acknowledged that MSD is well within its rights. Mr. Clarke stated that there was a very thorough notification process before construction, and if someone inspected the title for the property it is very clear that the easement is there. This easement was recorded within the last year. He stated that MSD Staff did a good job and worked through the process. Mr. Stamey stated that before construction begins, Staff sends out letters and notices, basically everything that can be done to notify property owners is done. Mr. Bradford stated that this has happened three times that he was aware of where a seller has not disclosed this information. Ms. Manheimer asked what was at the top of this project to require going to the top of the mountain. Mr. Stamey stated there were three or four houses up there. Mr. Bradford stated that it was a public system the District inherited. Ms. Manheimer asked how much this project cost. Mr. Stamey stated \$283,000.00. Mr. Stamey stated that there were 3 upcoming projects: Long Shoals Road @ Allen Avenue, Greenbriar Road in Haw Creek and Springdale Road in Kenilworth.

Mr. Stamey presented slides and reported on upcoming in-house construction projects. The 26 Wilshire Drive project is located in West Asheville and consists of replacing 1,862 feet of 8" line. This work started in February and hope to be complete by the first of April. The Weaverville Force Main project consisted of making 3 significant repairs in the last few months. One repair was made back in July, one in August and another in November with additional work to be performed in the future. The existing sewerline is 12" ductile iron pipe in very poor condition that has been in operation for over 30 years and the gases and the corrosive environment from the pumping system in Weaverville is causing it to become brittle. The Waightstill Mountain Force Main Replacement project is in South Asheville primarily along Ledbetter Road and consists of replacing 3,700 linear feet of force main. The 15 Dew Waite Road project is located in Ridgecrest and consists of 535 linear feet of 8" sewerline.

Mr. Hartye stated that Ms. Manheimer brought up a good point regarding the cost of a line for just a few houses. The dynamic is different than what you have with the water systems. With the sewer system if it leaks no matter how much it costs, if it hits a stream, MSD will get an NOV and it becomes a big deal. With the water system it's a little different. MSD is driven by any event of leakage coming out of the pipes regardless of the cost to repair.

Mr. Hartye reported that Jute of Clasique Acupuncture e-mailed to thank Gilbert Karn, Roy Lytle and crew.

Mr. Hartye reported that attached are some cards of appreciation from Koontz Intermediate School. He stated that one of his favorite's was "We learned some really cool stuff, some really interesting things, and some really nasty stuff".

Mr. Hartye reported that the next Right of Way Committee meeting will be held on March 27, 2019 at 9 am. The next Regular Board Meeting will be held on April 17, 2019 at 2 pm.

7. Consolidated Motion Agenda:

a. Consideration of Developer Constructed Sewer Systems: The Peaks; Hunt Hill Apartments:

Mr. Hartye reported that the Peaks project is located off South Tunnel Road in the City of Asheville and consisted of extending approximately 690 linear feet of 8-inch public gravity sewer to serve a commercial development.

Mr. Hartye reported that the Retreat at Hunt Hill Apartments project is located in the City of Asheville and consisted of extending approximately 1,735 linear feet of 8-inch public gravity sewer to serve the 180-unit apartment complex.

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

b. Cash Commitment/Investment Report Month ended January, 2019:

Mr. Powell reported that Page 27 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 28 presents the MSD investment managers report for the month of January. The weighted average maturity of the investment portfolio is 251 days. The yield to maturity is 2.55%. Page 29 presents the MSD analysis of Cash Receipts. Domestic User Fees are considered reasonable based on the timing of cash receipts and historical trends. Industrial User Fees are considered reasonable taking into consideration a temporary increase in revenue from one industrial user. Facility and Tap Fees are above budgeted expectations due to receiving \$1.2 million from two developers. Page 30 presents the MSD analysis of Expenditures. O&M, Debt Service and Capital Project expenditures are considered reasonable based on historical trends and timing of capital projects. Page 31 presents the MSD Variable Debt Service report. The 2008A Series is performing at budgeted expectations. As of the end of February this issue has saved the District rate payers approximately \$5.8 million in debt service since April of 2008.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Mr. Pelly moved. Ms. Bryson seconded the motion. Roll call vote was as follows: 9 Ayes; 0 Nays.

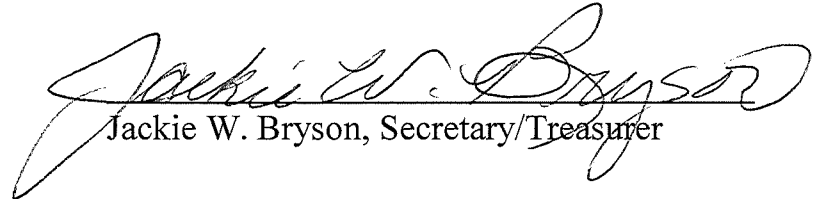
8. Old Business: None.

Minutes
March 20, 2019
Page Five

9. **New Business:** None.

10. **Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:35 pm.


Jackie W. Bryson, Secretary/Treasurer

MSD

Regular Board Meeting

Metropolitan Sewerage District
of Buncombe County, NC

AGENDA FOR 3/20/19

✓	Agenda Item	Presenter	Time	
	Call to Order and Roll Call	VeHaun	2:00	
	01. Inquiry as to Conflict of Interest	VeHaun	2:05	
	02. Approval of Minutes of the February 20, 2019 Board Meeting	VeHaun	2:10	
	03. Discussion and Adjustment of Agenda	VeHaun	2:15	
	04. Informal Discussion and Public Comment	VeHaun	2:20	
	05. Report of General Manager	Hartye	2:25	
	06. Consolidated Motion Agenda	Hartye	2:40	
	a. Consideration of Developer Constructed Sewer Systems: The Peaks; Hunt Hill Apartments	Hartye		
	b. Cash Commitment Investment Report-Month ended January, 2019	Powell		
	09. Old Business:	VeHaun	3:00	
	10. New Business:	VeHaun	3:05	
	11. Adjournment: (Next Meeting 4/17/19)	VeHaun	3:10	
	STATUS REPORTS			

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT

February 20, 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 2pm Wednesday, February 20, 2019. Chairman VeHaun presided with the following members present: Ashley, Bryson, Holland, Kelly, Manheimer, Pelly, Pressley, Valois, Watts, Whitesides and Wisler.

Others present were: Thomas E. Hartye, PE, General Manager; William Clarke, General Counsel; Forrest Westall with McGill Associates; Joseph Martin with Woodfin Sanitary Water & Sewer District; Ed Bradford, Mike Stamey, Peter Weed, Roger Edwards, Scott Powell, Jim Hemphill, Ken Stines, Spencer Nay and Pam Nolan, MSD.

2. Inquiry as to Conflict of Interest:

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

3. Approval of Minutes of the January 16, 2019 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the January 16, 2019 Board Meeting. Mr. Watts moved for approval of the minutes as presented. Mr. Pressley seconded the motion. Voice vote in favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

Mr. VeHaun welcomed Mr. Martin with Woodfin Sanitary Water and Sewer District. There was no discussion or public comment.

6. Report of General Manager:

Mr. Hartye gave an update on the plant bypass and new treatment system. He reported that this may have been one of the busiest two weeks in the last 20 years. He presented slides and explained the emergency by-pass system, which by-passes entire front of the plant to allow for the critical tie-ins to be made. During the process of getting ready to start the by-pass pumps yesterday, the Contractor dug down to inspect the connection and there was a leak. The by-pass had to be started immediately but luckily they missed the worst of the rain and everything worked out well. He stated that he would go into more detail next month.

Mr. Hartye reported that during one of System Services periodic inspections of the interceptors along the river, one of the employees discovered a joint nearly opened up but it had not yet started leaking. This was

an emergency situation that required pumps to be set up. He presented slides of the interceptors and the work performed to repair the problem. He explained that these are 2 twin interceptors, one an older 36" line, along the Swannanoa River. These lines were immediately adjacent to the retaining wall supporting the railroad tracks. Engineering employees surveyed the line and Mr. Bradford designed a strong back of two beams. Mr. Hartye thanked Ken Stines and his crew and Ed Bradford and Engineering for their quick reaction. Mike Stamey was also very instrumental in making this whole project work by getting up with the Norfolk Southern track supervisor and Duke Power to make them understand what we were contending with. Norfolk Southern basically shut down the closest series of tracks so that a crane could be brought in and the beams could be placed. Duke Power had to shut off the lower transmission lines. The beams were then welded together, and the joints of the failing interceptor were chained so they won't fall any further. The piers supporting the sewer lines have been washed away by the river and this is a temporary repair to keep it from failing and getting into the river. It will still need to be lined on the inside now that it is secure. The ultimate goal somewhere in the future is to replace both lines with one 60" line. Mr. Hartye again thanked Ed Bradford, Ken Stines and Mike Stamey and their Staff. He stated that luckily the employee saw it before it became a gusher in the middle of the river. Mr. VeHaun asked how much the temporary repair cost. Mr. Bradford stated that it was about \$80,000.00. This included the contractor, beams and mobilizing the crane. Mr. Hartye added that Ken's folks cost about another \$40,000.00 and that there will still be more spent on lining (approximately \$140,000.00), the interceptor until it can be replaced. Total repair at about ¼ million.

Mr. Hartye thanked Lisa Tolley and Angel McCrain for running the MSD Booths to provide information and education at the Build and Remodel Expo (which saw approximately 4,000 people).

Mr. Hartye reported that RL Ellinburg of Black Mountain called to express his appreciation for the service provided by Grady Brooks who was courteous, helpful and did a wonderful job.

Mr. Hartye reported that Steve Heflin at 6 Imperial Court called to say that he was impressed with Pete Cole and Wayne Rice and their quick response time and how helpful they were.

Mr. Hartye thanked Roger Edwards for heading up the plant tours this year even amidst the extensive construction at the plant. Attached is a list of tours and number of attendees for this year which was very aggressive, about 620 attendees.

Mr. Hartye reported that attached is an article in the ACT regarding brewery waste and the impacts that it may have on public treatment works. The article was a bit confusing as it kept switching back and forth between MSD and Brevard and our experiences are quite a bit different. What was not

mentioned was that MSD has a pretreatment group that manages all the significant industrial waste and has met frequently with the Brewers Alliance to educate them on how to mitigate waste impacts by side-stream separation, disposal, etc. MSD allowed New Belgium to temporarily discharge under certain permitted conditions while they constructed their pretreatment system. The larger breweries need to pretreat at their campus before they discharge to MSD. This was a win-win that was worked out with them. It was a very heavy financial outlay at the very beginning and they wanted a couple of years to put it on line. MSD had available capacity and allowed them to discharge a little higher strength waste on a temporary basis with permit limits and conditions. Just the extra strength portion over about 2 ½ years was about \$835,000.00 that MSD received from New Belgium which helps a lot for the improvements being done at the plant. MSD has regained that capacity now that New Belgium's pretreatment is on line.

Mr. Hartye reported the next Regular Board Meeting will be held on March 20, 2019 at 2 pm. The next Right of Way Committee meeting will be held on March 27, 2019 at 9 am.

7. Consolidated Motion Agenda:

a. Consideration of Bids: Long Shoals Road @ Allen Avenue Sanitary Sewer Rehabilitation Project:

Mr. Hartye reported that this project is in South Asheville near Long Shoals Road and Hendersonville Road and abuts the TC Roberson High School property. The line is in poor structural condition. Portions of the line have already been rehabilitated so this is a very small contract consisting of 458 LF. The contract was advertised and five bids were received on January 31, 2019 as follows: Thomas Construction Company in the amount of \$222,798.00; North American Pipeline Management in the amount of \$135,420.00; Buckeye Bridge LLC in the amount of \$135,322.00; Terry Brothers Construction Company in the amount of \$128,310.00 and Teraflex Group LLC in the amount of \$112,321.00. The apparent low bidder is Teraflex Group LLC with a bid amount of \$112,321.00. Teraflex has not previously done work for the District. Staff checked their references and they were very complimentary. The FY18-19 Construction Budget for this project is \$184,000.00. Staff recommends award of this contract to Teraflex Group LLC in the amount of \$112,321.00, subject to review and approval by District Counsel.

b. Consideration of Cost Participation: 17 North Market Street Development:

Mr. Hartye reported that this project is located in downtown Asheville between North Market Street and Langren Alley. It is a retrofit of an existing building with 16 new condominiums. The MSD line in Langren Alley which serves this project was previously identified as a Capital Improvement Project due to the condition of the old 6-inch clay line. MSD

staff has evaluated the project under our cost participation and there is an attached worksheet reflecting that they are eligible for 100% reimbursement. The cost estimate based on current bid pricing for MSD projects of similar scope is \$86,685.37. If the timing of it should be that they could finish before July 1, 2019, the funds will come out of CIP Contingency for this year. Should the actual timing of the project result in reimbursement likely to occur in FY 19-20, this reimbursement will be formally budgeted for next fiscal year. This item will be brought back before the Board for approval of actual cost upon completion. Ms. Manheimer asked if this would be a conflict of interest for her since it is located next to her law firm. Mr. Clarke stated that he did not believe it was a conflict. Staff recommends that the Board approve a reimbursement of \$86,685.37 to Spectrum Building Company Inc., contingent upon full completion of the sewer rehabilitation portion of their project. No payment shall be issued until the sewer is installed to MSD Standards and Specifications, all final paperwork is received including any easement conveyance, and the system is fully accepted by this Board.

c. Consideration of Developer Constructed Sewer Systems: Cisco Road Homes; Asheville Habitat – Curry Court (Affordable Housing Reimbursement); 605 Fairview Road; Grindstaff Subdivision; Maple Trace Phase 2; Villa Heights:

Mr. Hartye reported that the Cisco Road Homes project is located in the City of Asheville and consisted of extending approximately 168 linear feet of 8-inch public gravity sewer to serve a 7-lot single family residential development.

Mr. Hartye reported that the Asheville Habitat – Curry Court (Affordable Housing Reimbursement) project consisted of extending approximately 554 linear feet of 8-inch public gravity sewer to serve the 12-unit affordable housing development. This project also qualifies for the District's Cost Recovery Reimbursement for the lesser value of either the construction of the sewer extension or five years' estimated revenue. Attached is the calculation of the estimated five years' revenue. The estimated revenue is \$14,656.00. Staff recommends acceptance of this developer constructed sewer system and to authorize General Manager to disburse \$14,656.00 to Asheville Area Habitat for Humanity, Inc.

Mr. Hartye reported that the 605 Fairview Road project included extending approximately 362 linear feet of 8-inch public gravity sewer to serve the 6-lot single family residential development.

Mr. Hartye reported that the Grindstaff Subdivision project included extending approximately 110 linear feet of 8-inch public gravity sewer to serve the 5-lot single family residential development.

Mr. Hartye reported that the Maple Trace Phase 2 project is located in the Town of Weaverville and included extending approximately 2,560

linear feet of 8-inch public gravity sewer to serve the 37-lot single family residential development.

Mr. Hartye reported that the Villa Heights project is located in the City of Asheville and included extending approximately 548 linear feet of 8-inch public gravity sewer to serve the 8-lot single family residential.

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

d. Second Quarter Budget to Actual FY19:

Mr. Powell reported that Page 42 presents the District's Second Quarter Budget to Actual Review and Expenditure Report. Domestic Revenue is at budget expectations. Industrial Revenue is trending better than budgeted expectations due to a temporary increase in revenue from one industrial user. Facility and Tap Fees are above budgeted expectations due to receiving approximately \$1.2 million from two developers. Interest and miscellaneous income are above budgeted expectations due to actual short-term interest rates being better than anticipated for the fiscal year. O&M expenditures are at 51% of budget. They include encumbered amounts. These amounts will be spent in future periods. These encumbrances as of the end of the second quarter were approximately \$700,000.00. Bond principal and interest expenditures are reflected at 50%. This will aid the user to properly assess debt service commitments on a budgetary perspective. Actual amount spent as of the end of the second quarter is approximately 21.54%. 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. Due to the timing of capital projects, these amounts are considered reasonable.

e. Cash Commitment/Investment Report Month ended December 2018:

Mr. Powell reported that Page 46 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 47 presents the MSD investment managers report for the month of December. The weighted average maturity of the investment portfolio is 196 days. The yield to maturity is 2.42% and is exceeding our bench marks of the NCCMT portfolio. Page 50 presents the MSD Variable Debt Service report. The 2008A Series is performing at budgeted expectations. As of the end of January this issue has saved the District rate payers approximately \$5.8 million in debt service since April of 2008.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Mr. Pelly moved. Mr. Whitesides seconded the motion. Roll call vote was as follows: 12 Ayes; 0 Nays.

8. Old Business: None.

9. New Business: None.

10. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:26 pm.

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO: MSD Board
FROM: Thomas E. Hartye, P.E., General Manager
DATE: March 15, 2019
SUBJECT: Report from the General Manager

- Construction Update

Ed Bradford and Mike Stamey will give a brief update of MSD's ongoing construction. This current fiscal year budget for construction is \$23,492,718, while the projected 10-year budget is in excess of \$310 Million.

- Kudos

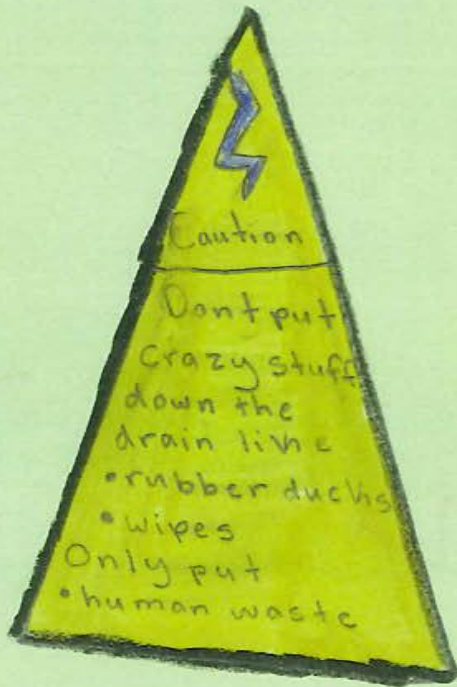
- Jute of Clasique Acupuncture and Pilates emailed to extend here compliments and thanks to Gilbert Karn, Roy Lytle and crew while they were fixing a sewer issue at their building. "They were very respectful to our staff, clients and property and communicated everything before they did it."
- Attached are some cards of appreciation from the Koontz Intermediate School (5th and 6th grade) for a presentation by MSD staff. Many thanks to Chad Ledford, Shannon Bergeron, and Grey Clough.

- Board/Committee Meetings/Events

The next Right of Way Committee meeting will be held on March 27th at 9 am. The next Regular Board Meeting will be held on April 17th at 2 pm.

Mr. Chad

Thankyou for coming to do the presentation to help us learn about what goes into your water and what not to put down the drain. I really enjoyed listening to you and I learned a lot of new stuff. Thankyou!!!



Ms. Shannon

Thankyou for coming and teaching us about the sewer and your super cool truck. I really loved when you guys sprayed the water out of the tube. Thankyou!!!

M S D
V I S V
C O O L

TO: Mr. Chad
& Ms. Shannon

From: Jorgia

Thank you so much for coming
and teaching us about water &
how you clean it. I know
how early you guys
get up everyday, thank
you so much for
everything you
do for us
to have ~~water~~ clean

I learned that there
is a lot of different
noises to clean
out different things.

Water

I learned that you guys
wake up ~~very~~ very early
to go and clean the
sewers.



Before



After

Thank you

~~for~~

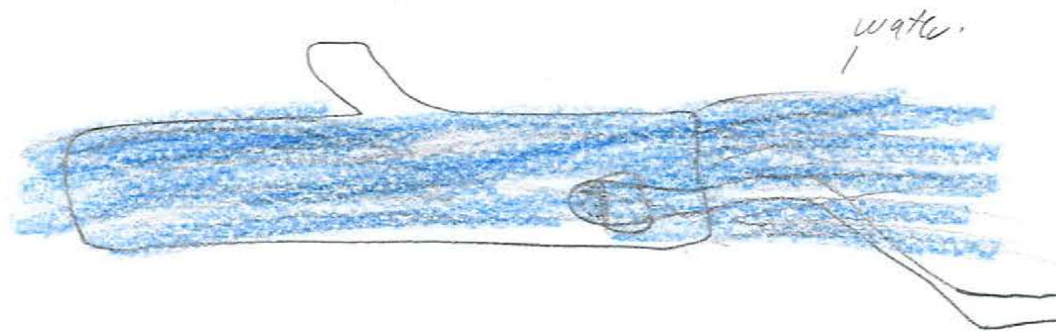
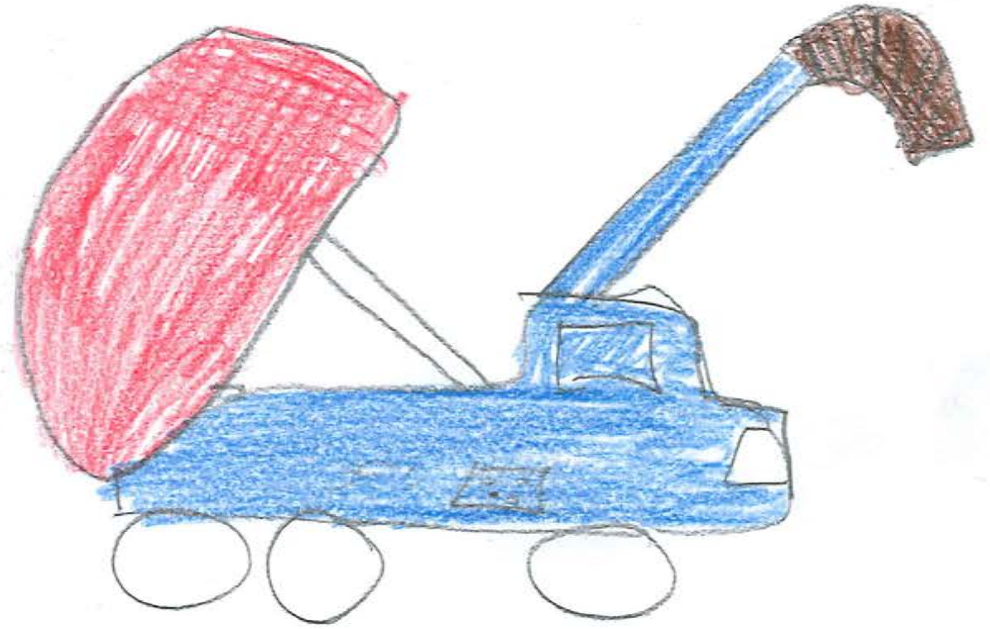
Cleaning our

Water

Mr. Chad &

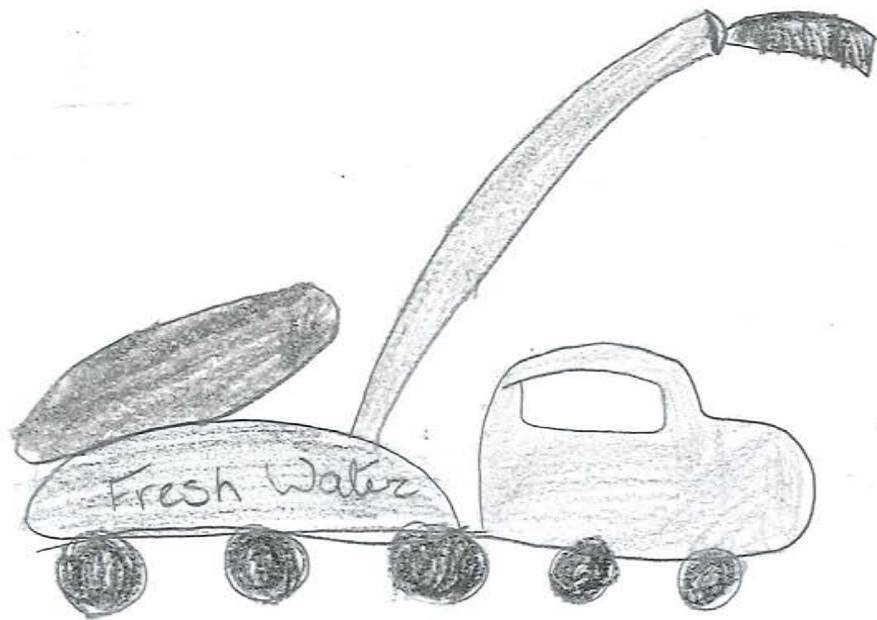
Ms. Shannon

Thank you for all the
way over to our school
and showing us and
teaching us about the
sewer and what they
do there.



We learned a lot.

One of the most important things was to prevent pollution with the sewage.



(My illustration of the truck)

2 of the many things we learned

- Don't flush wipes, rubber duckies, oil, and grease down the toilet or down the drain. (These are only some of the things you shouldn't send down the drain.)

- Recycle or put grease in the trash instead of putting grease down the drain.



From: Diya Patel

To: Mr. Chad & Ms. Shannon

★ ★
Thank You

MSD!



You gave us

a lot of information on
your job!

★ ★

Do notes!



- No dead fish ~~fish~~
- gas or oil

• grapes goes mostly to me I accidentally dropped a grape down the toilet!

Do's

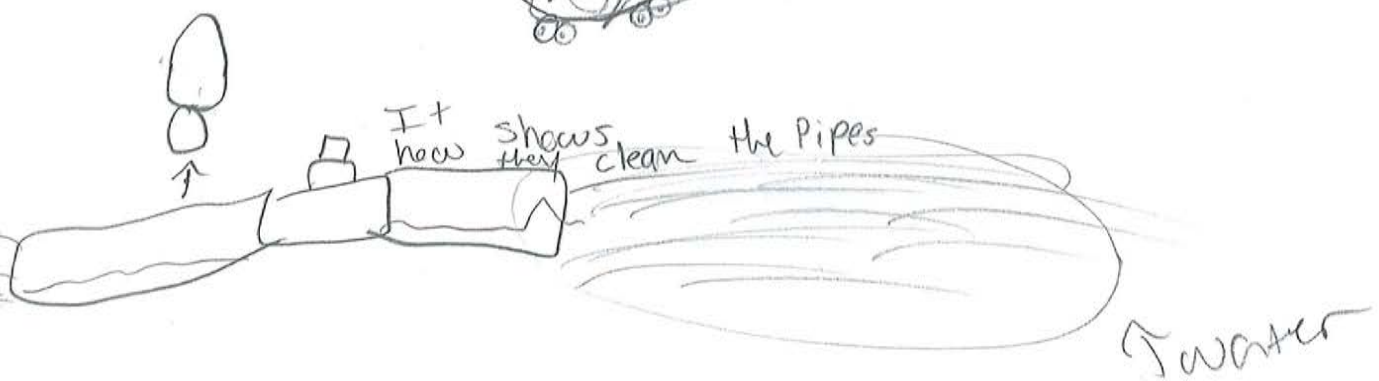
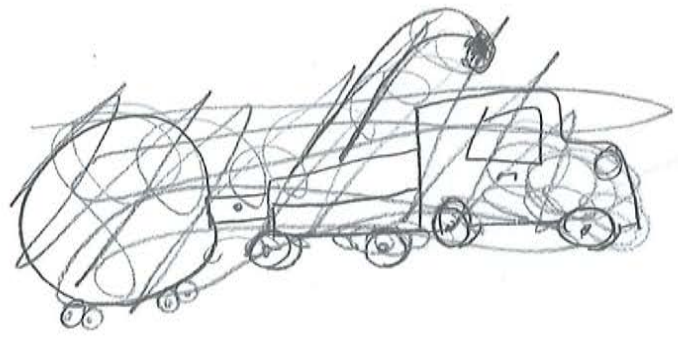
• human waste

• Toilet paper

• Wipes

• We can clogg the pipes if we put wipes in it.

• Msd wakes up at dam when bars close so they and clean the water sewers.



Thank
you!



Mr. Chad &
Ms. Shannon



From: Alonica

Thank you for coming to our class
to tell us about MSD!
We learned some really cool stuff,
some really interesting things, and
some really nasty stuff.

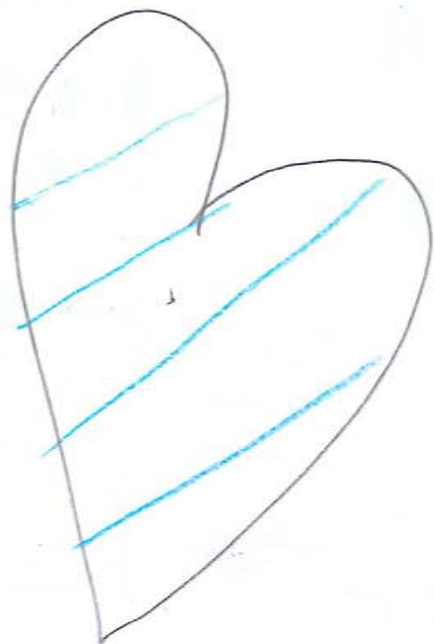
We really appreciate
you coming to our
Class!



Water
goes into
Sewar.

Truck Collects
dirty water.

From Veda



Thank you

Mr. Chad / Ms. Shannon



From Veda ♡

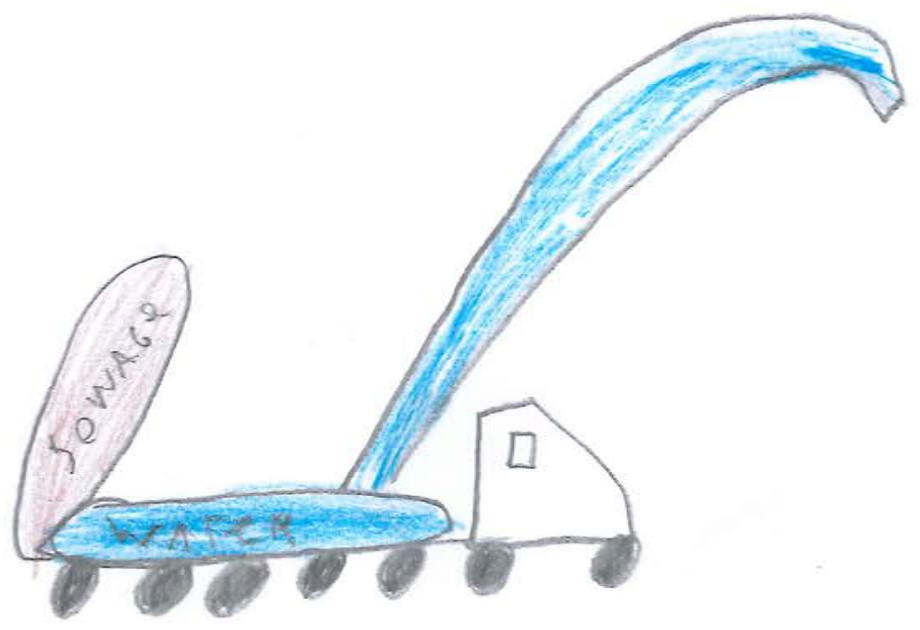
THANKS!

WE ALL LEARNED SOMUCH!
LIKE HOW THE SEWAGE PLANT
WORKS, AND, HOW THE SEWAGE
TRUCK UNBLOCKS THE PIPES
THAT RUN THROUGH OUR
CITY! THANK YOU FOR ALL YOU
DO!

GRAHAM

THANK
YOU!

We REALLY enjoyed
THE VISIT!
(SORRY I CAN NOT DRAW!)



TO: MR. CHAD AND MS. SHAD NEW

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: March 20, 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 Peaks, MSD Project No. 2016175

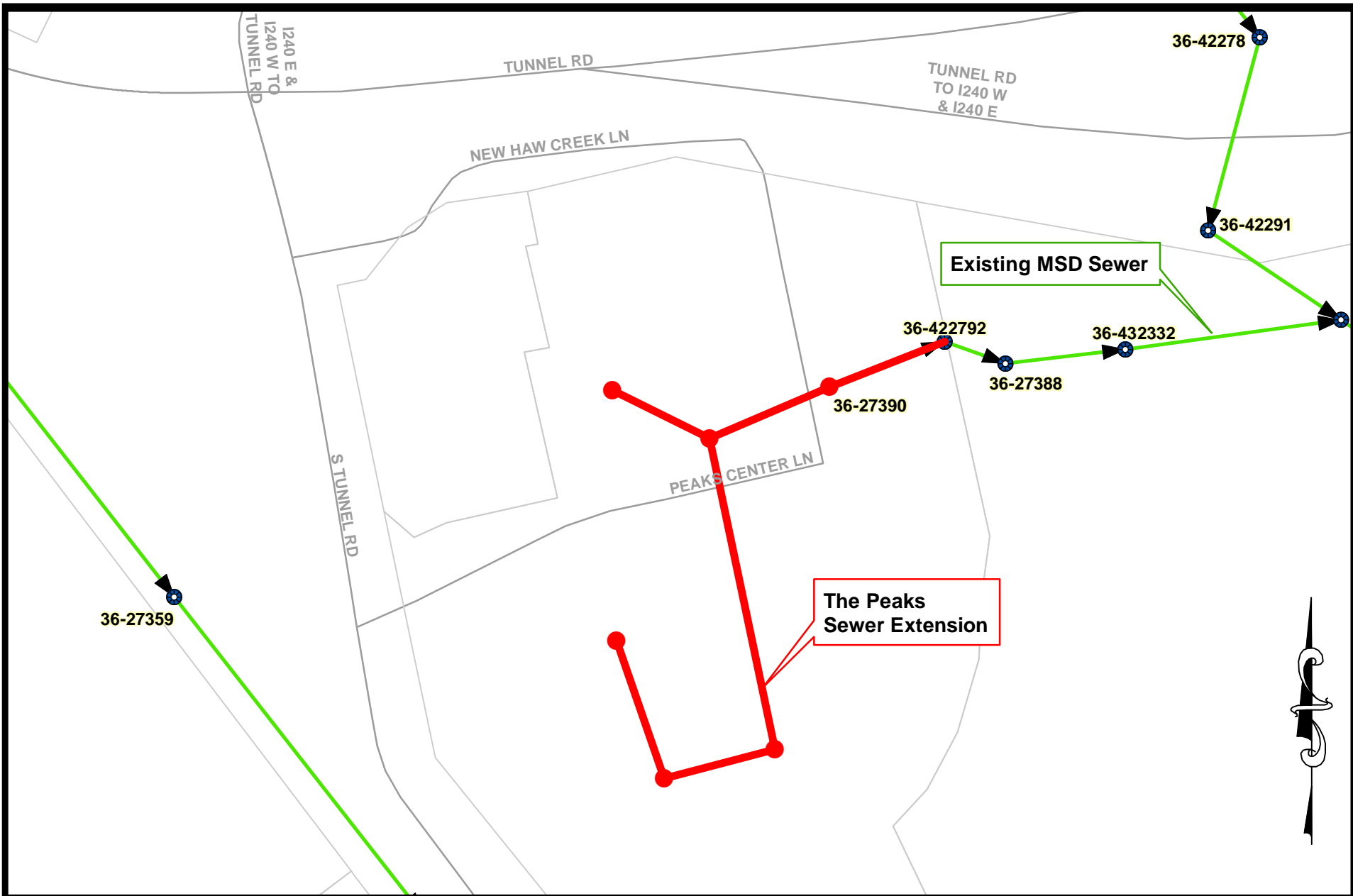
BACKGROUND: This project is located inside the District boundary off S. Tunnel Road in the City of Asheville. The developer of the project is William McGuire of IP UTP Asheville, LLC.

The project included extending approximately 690 linear feet of 8-inch public gravity sewer to serve the Commercial Development including restaurants and retail space.

A wastewater allocation was issued in the amount of 4,389 GPD for the development. The estimated cost of the sewer construction is \$114,800.00.

All MSD requirements have been met.

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



MSD
Engineering Division

**The Peaks Sewer Extension
MSD Project # 2016175**

Metropolitan Sewerage District of Buncombe County

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: March 20, 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 Retreat at Hunt Hill Apartments, MSD Project No. 2013111

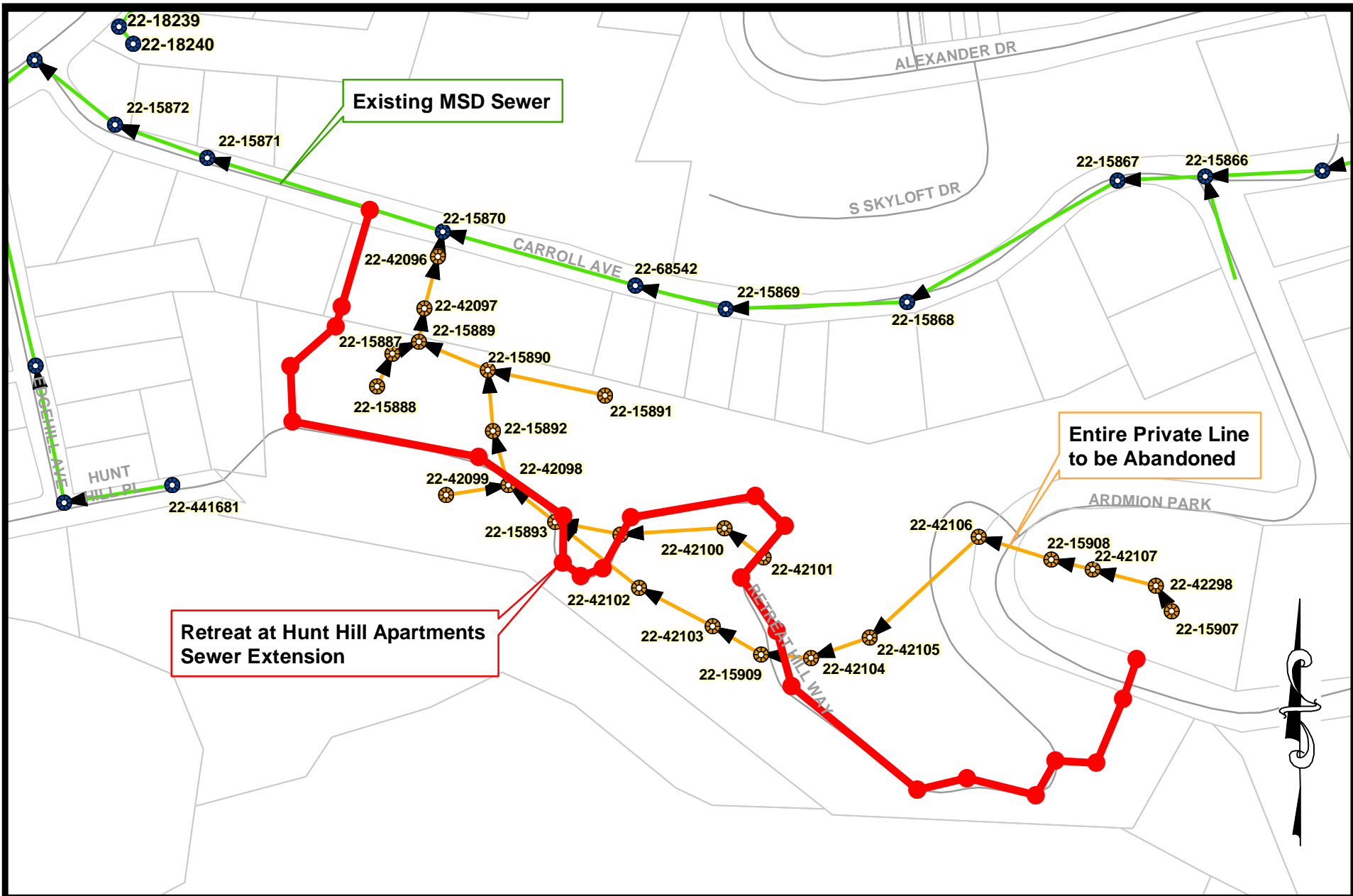
BACKGROUND: This project is located inside the District boundary off Hunt Hill Place in the City of Asheville. The developer of the project is Chip Kassinger.

The project included extending approximately 1,735 linear feet of 8-inch public gravity sewer to serve the 180 unit apartment complex.

A wastewater allocation was issued in the amount of 24,100 GPD for the development. The estimated cost of the sewer construction is \$127,000.00.

All MSD requirements have been met.

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



MSD
Engineering Division

Retreat at Hunt Hill Apartments Sewer Extension MSD Project # 2013111

Metropolitan Sewerage District of Buncombe County

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: March 20, 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 January 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 January 31, 2019 were \$75,970,989. The detailed listing of accounts is available upon request. The average rate of return for all investments is 1.925%. 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 January 31, 2019 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of January 31, 2019 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$40,688,078.

Total Cash & Investments as of 01/31/2019		75,970,989
Less:		
Budgeted Commitments (Required to pay remaining FY19 budgeted expenditures from unrestricted cash)		
Construction Funds	(14,140,280)	
Operations & Maintenance Fund	(8,060,328)	
		(22,200,608)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(52,146)	
FY19 Principal & Interest Due	(7,243,068)	
		(7,295,214)
District Reserve Funds		
Fleet Replacement	(755,990)	
Pump Replacement	(201,540)	
WWTP Replacement	(257,831)	
Maintenance Reserve	(984,937)	
		(2,200,298)
District Insurance Funds		
General Liability	(130,582)	
Worker's Compensation	(343,211)	
Post-Retirement Benefit	(1,889,108)	
Self-Funded Employee Medical	(1,223,891)	
		(3,586,791)
Designated for Capital Outlay		40,688,078

Meeting Date: March 20, 2019

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

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Staff Recommendation

None - Information Only.

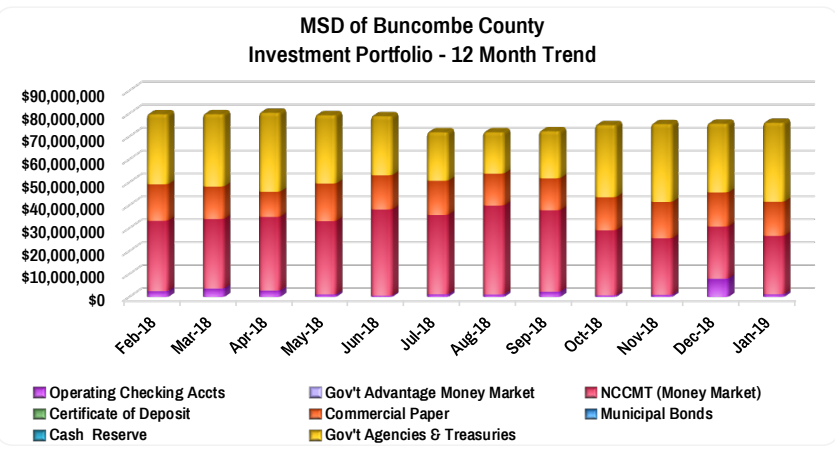
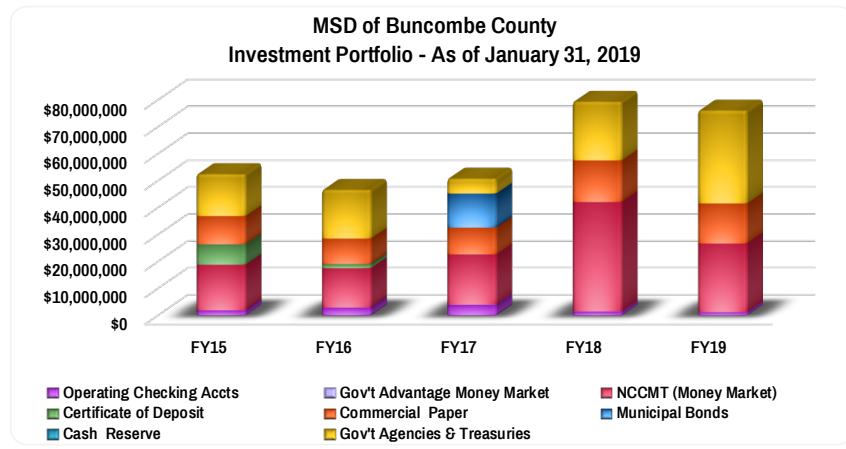
Action Taken

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

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	\$ -	\$ -	\$ 53,822	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 53,822
Held by MSD	1,192,761	46,681	25,401,317	-	14,880,893	-	-	34,395,515	75,917,167
	\$ 1,192,761	\$ 46,681	\$ 25,455,139	\$ -	\$ 14,880,893	\$ -	\$ -	\$ 34,395,515	\$ 75,970,989

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries, Agencies and Instrumentalities	100%	45.27%	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 2.55% is exceeding the YTM benchmark of the NCCMT Government Portfolio.
Commercial Paper	20%	19.59%	
Municipal Bonds	100%	0.00%	
North Carolina Capital Management Trust	100%	33.51%	
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		1.57%	
Gov't Advantage Money Market		0.06%	



Meeting Date: March 20, 2019

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

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

Summary of Asset Transactions

	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 63,282,196	\$ 63,344,448	\$ 127,241
Capital Contributed (Withdrawn)	8,713,322	8,713,322	
Realized Income	52,941	52,941	(10,568)
Unrealized/Accrued Income		15,758	62,362
Ending Balance	<u>\$ 72,048,459</u>	<u>\$ 72,126,469</u>	<u>\$ 179,034</u>

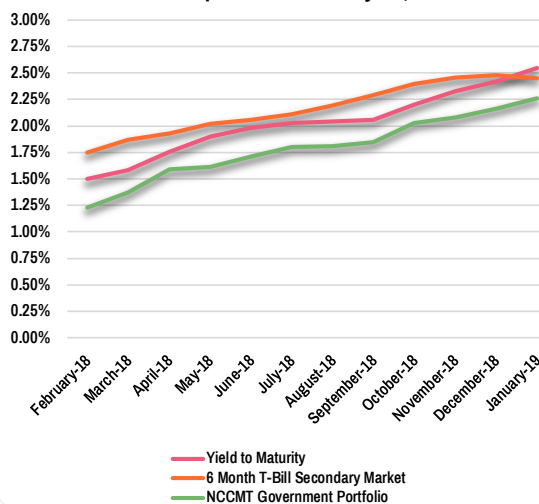
Value and Income by Maturity

	Original Cost	Income
Cash Equivalents <91 Days	\$ 37,652,944	\$ 62,970
Securities/CD's 91 to 365 Days	12,464,395	20,845
Securities/CD's > 1 Year	21,931,120	36,677
	<u>\$ 72,048,459</u>	<u>\$ 120,493</u>

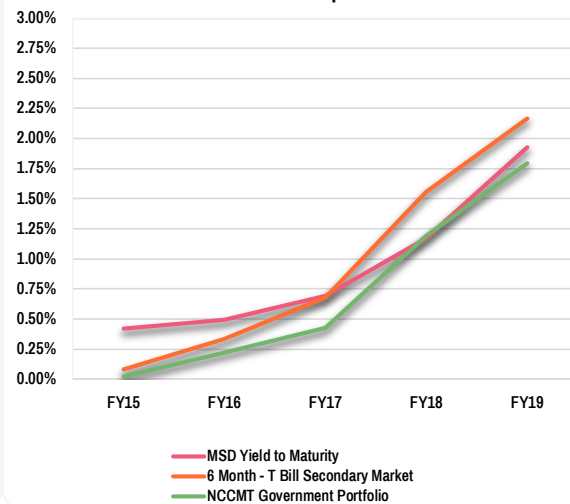
Month End Portfolio Information

Weighted Average Maturity	251
Yield to Maturity	2.55%
6 Month T-Bill Secondary Market	2.45%
NCCMT Government Portfolio	2.26%

**Metropolitan Sewerage District
Yield Comparison - January 31, 2019**



**Metropolitan Sewerage District
Annual Yield Comparison**

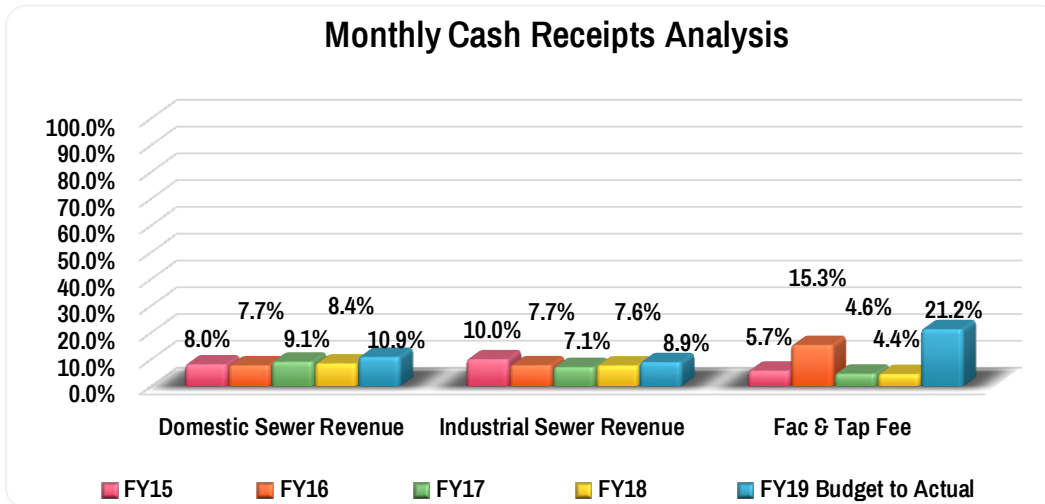


Meeting Date: March 20, 2019

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

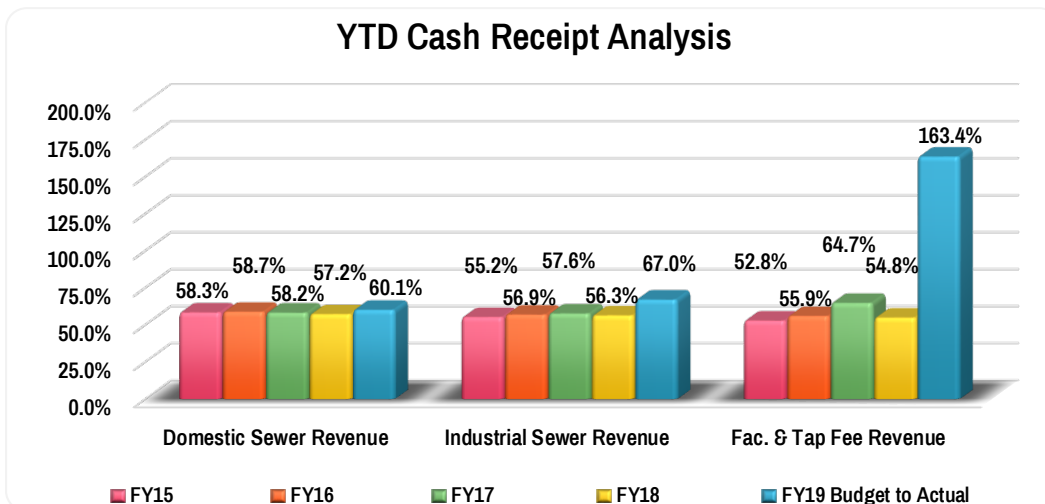
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Metropolitan Sewerage District
ANALYSIS OF CASH RECEIPTS
As of January 31, 2019



Monthly Cash Receipts Analysis:

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



YTD Actual Revenue Analysis:

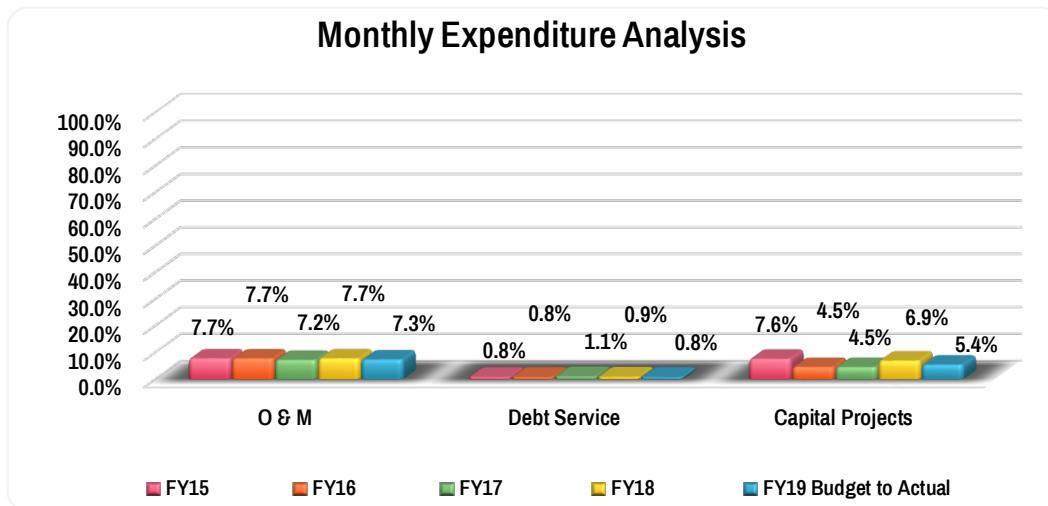
- t YTD domestic sewer revenue is considered reasonable based on historical trends.
- t YTD industrial sewer revenue is reasonable based on historical trends.
- t Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

Meeting Date: March 20, 2019

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

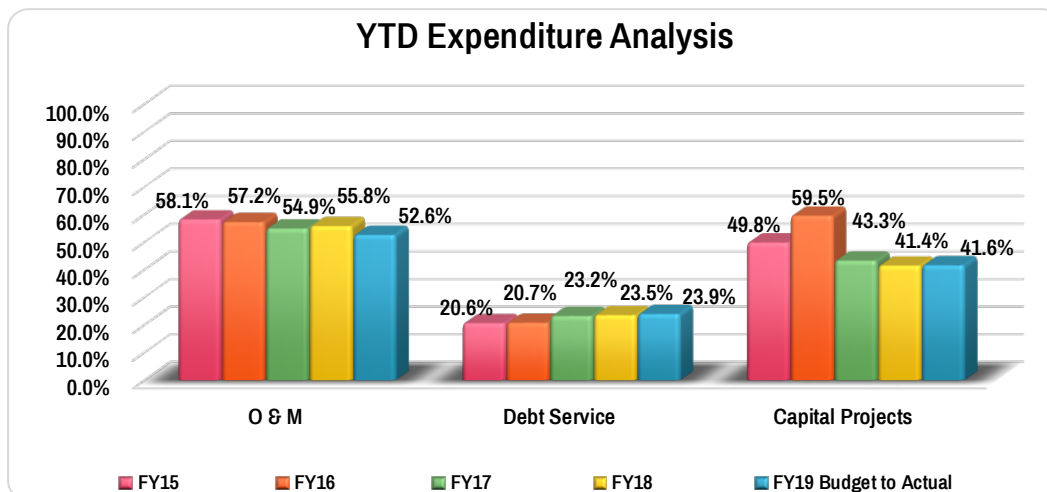
Page 6

Metropolitan Sewerage District
ANALYSIS OF EXPENDITURES
As of January 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:

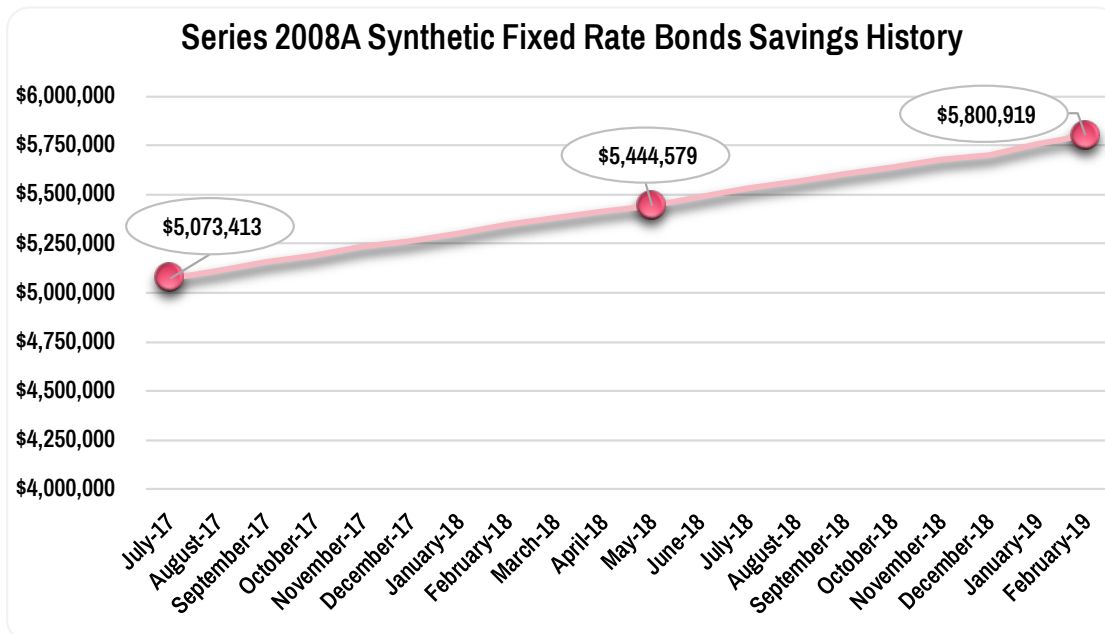
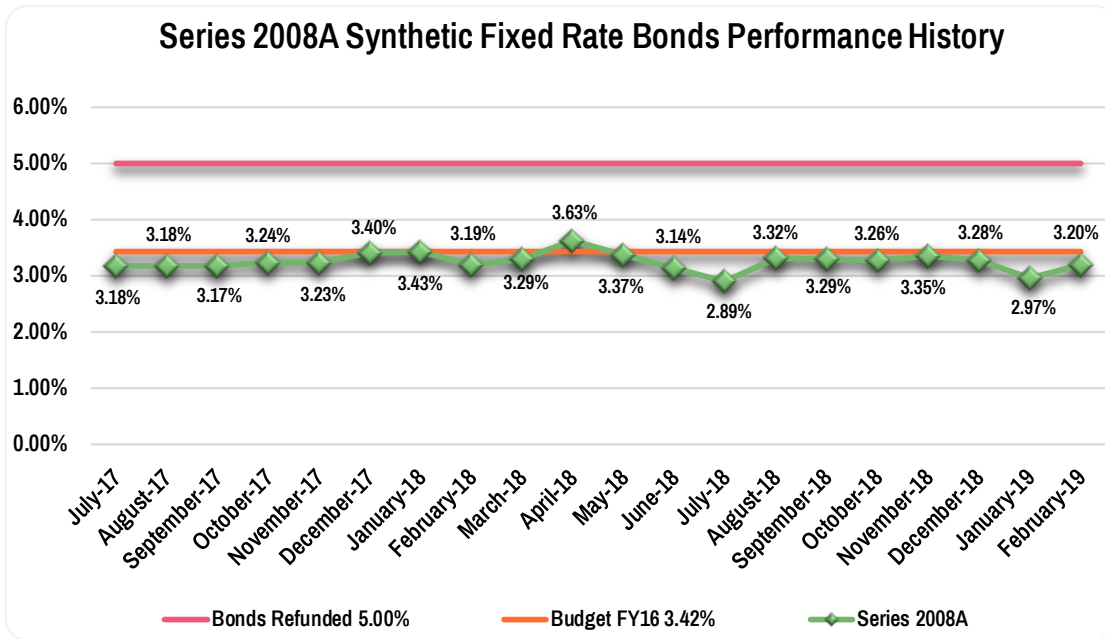
- ✗ YTD O&M expenditures are considered reasonable based on historical trends.
- ✗ Due to the nature of the variable rate bond market, YTD expenditures can vary year to year. Based on current variable interest rates, YTD debt service expenditures are considered reasonable.
- ✗ Due to nature and timing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

Meeting Date: March 20, 2019

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

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Metropolitan Sewerage District
VARIABLE DEBT SERVICE REPORT
As of February 28, 2019



Series 2008A:

- ❁ Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$5,800,919 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 \$2,630,373 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
26 Wilshire Drive Phase I Sewer Rehabilitation	Asheville	28806	1478	2/1/19 - 3/15/19	235158	674			Construction 50% complete
Laurel Road Phase 2B	Arden	28704	800	2/11/19 - 3/15/19	250366	631			Construction 60% complete
26 Wilshire Drive Phase II and III Sewer Rehabilitation	West Asheville	28806	384	3/16/19 - 3/31/19	259181/260381	674			Ready for construction
Weaverville #2 FM By-pass	Woodfin	28804	2300	3/16/19 - 4/16/19	258476	631			Ready for construction
Waightstill Mtn FM Replacement	Arden	28704	3,700	4/1/19 - 5/15/19	235481	674			Ready for construction
217 Mountain View Road Sewer Rehabilitation Ph. 2	Asheville	28805	483	FY 18-19	260470	631			Ready for construction
252 Kenilworth Road (Phase 1)	Asheville	28803	800	FY 18-19	234632	TBA			Ready for construction
149 State Street Sewer Rehabilitation	Asheville	28806	265	FY 18-19	237791	TBA			Ready for construction
Waynesville Avenue at Brownwood	Asheville	28806	370	FY 18-19	247283	TBA			In ROW
15 Dew Waite Road	Ridgecrest	28770	533	FY 18-19	236553	TBA			In ROW
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 1/31/2019

	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	601	46	27	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
Grand Totals	182	68	829	5,332	169	181	29,732	0	2001	7000	71	1,495	10496

* Used to calculate Total Rehab Footage



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2018 to January 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
Grand Total:	522,890	9,715	39,896	562,786	141,566	137,117	66,500
Avg Per Month:	74,699	1,388	5,699	80,398	20,224	19,588	9,500



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
		693	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
		118	24	25
ON-CALL CREW *				
	July, 2018	44	46	54
	August, 2018	37	41	40
	September, 2018	31	34	44
	October, 2018	38	51	38
	November, 2018	42	58	53
	December, 2018	49	39	30
	January, 2019	59	41	31
		300	44	41
Grand Totals:		1,111	31	37

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

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

March 13, 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	3/1/2019	6/30/2019	\$513,420.00	0%	Submittals approved. Equipment ordered.
BEAUCATCHER ROAD @ KENILWORTH ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	TBD	TBD	\$171,908.00	0%	Preconstruction meeting is scheduled for March 21st.
DRY RIDGE ROAD (4-INCH MAIN)	Asheville 28804	Buckeye Bridge, LLC	9/19/2018	11/12/2018	4/1/2019	\$286,837.90	95%	All mainline construction complete. Paving, curb work and final restoration remain.
HILL STREET	Asheville 28801	Terry Brothers Construction Company	7/18/2018	8/1/2018	4/1/2019	\$654,969.00	99%	Minor punchlist item remains. To be completed in Spring when paving resumes.
KENILWORTH ROAD @ SPRINGDALE ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	TBD	TBD	\$252,324.00	0%	Preconstruction meeting is scheduled for March 21st.
LONG SHOALS ROAD @ ALLEN AVENUE	Arden 28704	Teraflex Group LLC	2/20/2019	TBD	TBD	\$112,321.00	0%	Contracts have been executed. Preconstruction meeting scheduled for March 21st.
MEMORY LANE	Asheville 28805	Terry Brothers Construction Company	6/13/2018	10/1/2018	4/1/2019	\$652,274.80	95%	All mainline construction and services are complete. Paving will be done in the Spring.
OLD HAW CREEK ROAD @ GREENBRIAR ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	TBD	TBD	\$821,552.00	0%	Preconstruction meeting is scheduled for March 21st.
OLD WEST CHAPEL ROAD	Asheville 28803	Terry Brothers Construction Company	11/21/2018	1/10/2019	6/9/2019	\$982,155.00	40%	Project is progressing well.
SOUTH FRENCH BROAD INTERCEPTOR - LINING (FY 18-19)	Biltmore Estate	Granite Inliner, LLC	10/17/2018	1/2/2019	4/2/2019	\$1,066,164.00	75%	Approximately 750 LF of pipeline is left to be lined. Manhole rehab underway.
WRF - INTERMEDIATE CLARIFIER SLIDE GATES REPLACEMENT	Woodfin	NHM Constructors	9/19/2018	11/5/2018	5/4/2019	\$154,300.00	100%	All work on-site is complete. Project is in close-out stage.
WRF - PLANT HEADWORKS IMPROVEMENTS	Woodfin	Judy Construction Company	1/18/2017	4/3/2017	5/1/2019	\$9,444,462.62	90%	New headworks structures are operational. Demo of old grit and grease facility underway.
WRF- PLANT HIGH RATE PRIMARY TREATMENT	Woodfin	Shook Construction Company	10/17/2018	1/7/2019	10/28/2020	\$15,071,000.00	7%	Shook is currently demolishing old microscreen building. Non-potable water line construction underway.

*Updated to reflect approved Change Orders and Time Extensions

Planning & Development Project Status Report

Active Construction Projects Sorted by Work Location and Project Number

March 7, 2019

#	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	Final Inspection complete, awaiting close-out docs
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	Waiting on final inspection
8	Hawthorne at Mills Gap	2016222	Asheville	28803	272	442	10/3/2017	Waiting on final inspection
9	Ashcroft	2016229	Asheville	28806	40	2,450	2/20/2018	Phase 1 - Punchlist items pending / Phase 2 - on hold
10	Grindstaff Subdivision	2016246	Asheville	28805	4	132	6/23/2017	Final Inspection complete, awaiting close-out docs
11	Gerber Road Storage	2017049	Asheville	28803	Comm.	156	2/9/2018	Waiting on final inspection
12	RADTIP	2017052	Asheville	28801	0	919	2/13/2018	Installing
13	Panda Express	2017080	Asheville	28805	Comm.	100	9/8/2017	Waiting on final inspection
14	Rock Hill Road	2017096	Asheville	28803	15	990	7/24/2018	Installing
15	605 Fairview Road	2017103	Asheville	28803	10	380	5/18/2018	Final Inspection complete, awaiting close-out docs
16	Villa Heights	2017118	Asheville	28806	8	540	2/20/2018	Final Inspection complete, awaiting close-out docs
17	McCormick Place	2017150	Asheville	28801	17	210	8/3/2018	Waiting on final inspection
18	Flint Street	2017176	Asheville	28801	2	90	12/28/2018	Final Inspection complete, awaiting close-out docs
19	Hawthorne Apartments @ Haywood	2017225	Asheville	28806	240	1,604	10/19/2018	Testing
20	Fernwood Avenue	2017251	Asheville	28806	3	368	10/30/2018	Installing
21	US 74 Commercial Development	2018010	Asheville	28803	4	265	5/25/2018	Pre-con held, construction not yet started
22	Sunrise Drive Homes	2018046	Asheville	28806	5	220	7/20/2018	Waiting on final inspection
23	Alice Place Subdivision	2018066	Asheville	28803	19	480	6/19/2018	Punchlist pending
24	Oakview Park Road	2018072	Asheville	28803	3	230	1/29/2019	Pre-con held, construction not yet started
25	Ingles Smokey Park Highway	2018074	Asheville	28806	1	1,289	4/11/2014	Installing
26	Fern Street	2018081	Asheville	28803	8	60	2/15/2019	Pre-con held, construction not yet started
27	Cypress Knoll Gardens	2018121	Asheville	28803	7	90	10/30/2018	Final Inspection complete, awaiting close-out docs
28	Tru by Hilton	2018131	Asheville	28805	1	248	1/25/2019	Pre-con held, construction not yet started
29	Grove Park Views	2018239	Asheville	28801	7	150	2/19/2019	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	On hold
33	Sweet Birch Lane	2017111	Black Mountain	28711	65	780	9/28/2018	Punchlist pending
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	Pre-con held, construction not yet started
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	Bee Tree Village	2015158	Buncombe Co.	28778	26	1,118	3/17/2017	Waiting on final inspection
41	Newbridge Pkwy Apts. Phase II	2016013	Buncombe Co.	28804	154	1,368	10/27/2017	Final Inspection complete, awaiting close-out docs
42	Weatherwood Subdivision	2016034	Buncombe Co.	28704	19	785	7/21/2017	Final Inspection complete, awaiting close-out docs
43	NCDOT I-5504 NC 191A-26 Interchange	2016132	Buncombe Co.	28806	0	355	10/23/2017	Installing
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	Installing
46	ABCCM	2017083	Buncombe Co.	28806	60	4,069	12/4/2018	Installing
47	240 Old Farm School Road	2017112	Buncombe Co.	28805	4	340	2/9/2018	Final Inspection complete, awaiting close-out docs
48	Fields BMW	2018022	Buncombe Co.	28704	3	490	10/9/2018	Waiting on final inspection
49	Rosscraggon Road Subdivision	2018048	Buncombe Co.	28704	4	370	4/20/2018	Waiting on final inspection
50	The Ramble Block I	2018050	Buncombe Co.	28803	39	7,316	12/4/2018	Installing
51	Upper Grassy Branch Road	2018087	Buncombe Co.	28805	6	250	8/31/2018	Waiting on final
52	Bee Tree Road	2018115	Buncombe Co.	28778	6	240	12/18/2018	Testing
53	New Riparian	2018156	Buncombe Co.	28778	5	275	9/28/2018	Waiting on final inspection
54	The Preserve at Avery's Creek Phase 2	2018188	Buncombe Co.	28704	141	4,000	6/16/2017	Waiting on final inspection
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	Final Inspection complete, awaiting close-out docs
59	Ambler's Chase	2017249	Weaverville	28787	21	1,235	11/29/2018	Installing
60	Crest Mountain Phase 3B	2013041	Woodfin	28806	69	1,329	10/15/2013	Punchlist pending, awaiting closeout documents (roadwork remaining)
61	Reese & Jan Lasher (High Hopes)	2015152	Woodfin	28806	14	320	4/26/2016	Final Inspection complete, awaiting close-out docs
62	Ventana Phase 2A	2016059	Woodfin	28806	8	900	2/17/2017	Final Inspection complete, awaiting close-out docs
63	Olivette Development-Phase 1 Gravity	2016065	Woodfin	28804	356	1,155	3/29/2018	Installing
64	Olivette Pump Station/Force Main	2016213	Woodfin	28804	356	1,740	2/27/2018	FM 70% installed/Pump station has been set
65	Ricky Robinson Property	2017088	Woodfin	28804	1	385	7/31/2018	Waiting on final inspection
66	Apple Lane	2017130	Woodfin	28804	4	60	8/31/2018	Pre-con held, construction not yet started
67	88 North Merrimon Avenue	2017196	Woodfin	28804	Comm.	455	5/11/2018	Waiting on final inspection
68	Greenwood Fields Phase 2	2018006	Woodfin	28804	158	2,200	3/9/2018	Final Inspection complete, awaiting close-out docs
69	Olivette Gravity Phase 2	2018116	Woodfin	28804	94	12,406	11/27/2018	Installing
70	Skylin-Terraces at Reynolds Mtn -Phase 3&4	2018187	Woodfin	28804	22	845	8/8/2017	Waiting on final inspection and phasing
TOTAL					2,961	72,656		