

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
MARCH 16, 2016**

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 16, 2016. Chairman VeHaun presided with the following members present: Ashley, Belcher, Bryson, Collins, Creighton, Frost, Kelly, Pelly, Root and Wisler. Ms. Manheimer was absent.

Others present were: Ann-Patton Hornthal and Rebecca Reinhardt with Roberts & Stevens, Joseph Martin with Woodfin Sanitary Water & Sewer District, Ed Bradford, Scott Powell, Peter Weed, Jim Hemphill, Mike Stamey, Ken Stines, Matthew Walter, Angel Banks, and Sondra Honeycutt.

Mr. VeHaun welcomed Ms. Hornthal, Ms. Reinhardt and Mr. Martin.

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 the Minutes of the February 17, 2016 Board Minutes:

Mr. VeHaun asked if there were any changes to the Minutes of the February 17, 2015 Board Meeting. Ms. Frost 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 public comment.

6. Report of General Manager:

In the absence of Mr. Hartye, Mr. Bradford reported MSD is currently partnering with RiverLink on a stream restoration project along Smith Mill Creek. RiverLink has secured funding for this project to improve water quality in this area due to erosion. MSD will use equipment to do the heavy lifting, which may well lead to other such projects throughout the area.

Mr. Bradford reported that Biltmore Outlets approached MSD about taking over its private sewer system which was constructed in the late 1980's, but are now looking to get out of the sewer business. Staff is recommending takeover of the system which will allow MSD to get rid of a pump station in the Ingles parking lot across the street and prior to Ingles

opening a super store in the same location by August of this year. This project is currently in advertisement and staff hopes to present this to the Board within a month.

Mr. Bradford reported MSD is assisting UNCA in researching the possibility of using an energy recovery system on the MSD sewer main running through the campus. He stated this is not a new system, but one that is used up North and in Europe. He explained this is basically a thermal system whereby heat is dumped into the wastewater in the sewer system in the summer and extracted in the winter, but sufficient flow is necessary. The location they are looking at to install the system is near the roundabout on Weaver Boulevard, but because this would become part of the MSD system, there will be a lot of restrictions. He presented a slide showing the system and stated that MSD is doing flow monitoring on the system for a two week period to see if the flow meets their requirements. The basin that this is on serves the Grove Park Inn and several thousand homes in this area. Mr. Pelly asked what the goal of the project is. Mr. Bradford said heating & cooling systems. Mr. Kelly asked if this has any economic benefit or detriment to MSD. Mr. Bradford said none, other than partnering for energy efficiency.

Mr. Bradford reported the next Right of Way Committee meeting will be held at 9 am on March 23rd. The next regular Board Meeting will be held April 20th at 2 pm.

As part of the FY2017 Budget Process and Committee Meetings, Mr. Bradford reported the Personnel Committee will meet on April 26th at 9 am to consider Cost of Living/Merit pay and Benefit Allocations (i.e. Self-funded Medical & Dental Program). The CIP Committee will meet on April 28th at 8:30 am to consider an update of the Ten-Year Capital Improvement Program and the FY 2017 Construction Fund Budget. The Finance Committee will meet May 5th at 9 am to consider a Preliminary Budget with an updated 10-year Business Plan, which will incorporate the recommendation from the other Committees along with the proposed FY17 Operating Budget and Sewer Rates.

At the May 18th regular Board Meeting, the Board will be asked to consider the Preliminary FY17 Budget and Sewer Rates. At the June 15th regular Board Meeting, the Board will be asked to consider the Final FY17 Budget.

7. Consolidated Motion Agenda:

a. Consideration of Bids – Pump Station Replacement Projects - Bypass Pump Staging Areas:

Mr. Bradford reported this project is comprised of two locations: one at the treatment plant and one at the Carrier Bridge Pump Station. The purpose of the project is to construct permanent by-pass areas

where MSD can do emergency by-passing of those systems or do maintenance activities. Currently MSD has two very large portable pumps with trailers that can be mobilized to Carrier Bridge or back to the plant. Also included is the installation of two concrete areas between RBC basins to allow for easier maintenance with MSD's large trucks. The contract was advertised informally and the following two bids were received on March 2, 2016: Carolina Specialties, LLC with a bid of \$329,812.25, and NHM Constructors, LLC with a bid of \$267,260.00. The apparent low bidder is NHM Constructors, LLC with a bid of \$262,260.00. NHM has completed multiple projects at the plant including the recent Slide Gate project, and their work quality has been excellent on these projects. Staff also included an alternate to install concrete instead of asphalt for the two surfaces. This option will only add \$2,140.00 to the total project cost and is therefore recommended. The FY15-16 Construction Budget for this project is \$450,000.00. Staff recommends award of the contract to NHM Constructors, LLC in the amount of \$269,400.00 subject to review and approval by District Counsel.

b. Consideration of Bids – Hendersonville Road at Mills Gap Road Sanitary Sewer Replacement Project:

Mr. Bradford reported this project is located in South Asheville directly at the Ingles Store near Mills Gap Road. The 8-inch through 12-inch lines in this area are in poor structural condition. The rehabilitation project is comprised of 2,194LF of pipe bursting and 604LF of Dig and Replace for a total of 2,798LF. Pipe bursting and night construction have been specified in order to minimize disturbances to multiple businesses. The contract was advertised and one bid was received on January 5, 2016. The project was therefore re-advertised and one bid was again received on January 13, 2016 from Terry Brothers Construction Co. in the amount of \$723,448.00, which exceeds the budget, so staff re-advertised again and received the following two bids on February 25, 2016: Davis Grading, Inc. with a bid of \$772,948.00, and Terry Brothers Construction Co. with a bid of \$703,488.00. The construction estimate was \$650,000.00. The contractors pricing is reflective of project complexity and the night construction which was added during ROW negotiations. Sufficient funds are available in the contingency fund for the overage. Terry Brothers has completed numerous projects for MSD, and their work quality has been excellent. Staff recommends award of the contract to Terry Brothers Construction Co. in the amount of \$703,488.00 subject to review and approval by District Counsel. Mr. Root asked when there is a situation where we are not spending the full amount budgeted, does the overage go into a contingency fund? Mr. Bradford stated that when a project is under budget, Finance will transfer the overage into the contingency fund, which is currently at \$1 million dollars.

c. Consideration of Developer Constructed Sewer Systems: Asheville Outlets Sewer Conveyance; Beaver Drive Sewer Extension; Mill Creek Townhomes Sewer Extension, and Publix Sewer Extension:

Mr. Bradford reported the Asheville Outlets Sewer Conveyance project is located inside the District boundary off Brevard Road in the City of Asheville. He presented a slide showing the location of the project. The project included conveying a private collection system and associated easements for approximately 6,070 LF of 8-inch gravity sewer which serves the Asheville Outlets. It is important to note that with the acceptance of this system, the District will be able to eliminate the Venable Pump Station. The pump station elimination project is ready for advertisement and is expected to come before the Board next month.

Mr. Bradford reported the Beaver Drive Sewer Extension project is located inside the District boundary off Beaver Drive in the Town of Woodfin. The project included extending approximately 230 LF of 8-inch public gravity sewer to serve the six unit single family residential development.

Mr. Bradford reported the Mill Creek Townhomes Sewer Extension project is located inside the District boundary off Old County Home Road in Buncombe County. The project included extending approximately 84 LF of 8-inch public gravity sewer to serve the 18 unit residential development.

Mr. Bradford reported the Publix Sewer Extension project is located inside the District boundary off Hendersonville Road in the City of Asheville. The project included extending approximately 628LF of 8-inch public gravity sewer to serve a commercial development.

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

d. Cash Commitment/Investment Report Month Ended January 31, 2016:

Mr. Powell reported Page 27 presents the makeup of the District's Investment Portfolio. There has been no change in the makeup of the portfolio from the prior month. Additionally the makeup of the District's Investment Portfolio is in accordance to the District's investment policy. Page 28 is the MSD Investment Manager report as of the month of January. The weighted average maturity of the investment portfolio is 144 days. The yield to maturity is 0.46% and exceeds bench marks of the 6-month T-Bill and NCCMT cash portfolio. Page 29 is the MSD Analysis of Cash Receipts. Monthly and YTD domestic and industrial revenue is considered reasonable based on

timing of cash receipts in their respective fiscal periods. YTD Facility and Tap Fees are considered reasonable based on timing of 3 development contributions in the current year in addition to the conservative budgeting approach of these fees. Page 30 is the Analysis of Expenditures. The District's O&M expenditures are considered reasonable based on historical trends and current year budgeted needs. Due to the nature and timing of capital projects, year to date expenditures can vary year to year. Based on the current capital projects, YTD capital project expenditures are considered reasonable. Page 31 is the MSD Variable Debt Service Report. The 2008A Series are performing better than budgeted expectations. As of the end of February, the 2008A bond series has saved the District ratepayers approximately \$4.4 million dollars in debt service since April of 2008.

Mr. Belcher moved for approval of the Consolidated Motion Agenda as presented. Ms. Bryson seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays.

8. Old Business:

Mr. Belcher requested that zip codes be added to the Project Schedule to make it easier to know the exact location. Mr. Bradford stated staff will add this.

9. New Business:

At 2:22 pm, Ms. Wisler moved the Board go into closed session to discuss a condemnation settlement.

At 2:26 pm, the Board went back into open session.

Ms. Hornthal stated it is Counsel's recommendation that MSD agree to the consent judgement in the condemnation case (11CVS702) in Buncombe County filed against JAGJ, LLC in the amount of \$150,000.00. Mr. Kelly moved for approval of the recommendation. Mr. Root seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays.

10. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:27pm.

Jackie W. Bryson Secretary/Treasurer

<h1 style="margin: 0;">MSD</h1> <h2 style="margin: 0;">Regular Board Meeting</h2>

Metropolitan Sewerage District
of Buncombe County, NC

AGENDA FOR 3/16/16

✓	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 17, 2016 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		2:40	
	a. Consideration of Bids – Pump Station Improvement Projects: Bypass Pump Staging Areas.	Hartye		
	b. Consideration of Bids – Sanitary Sewer Rehabilitation Project: Hendersonville Road @ Mills Gap Road.	Hartyel		
	c. Consideration of Developer Constructed Sewer Systems: Asheville Outlets Sewer Conveyance; Beaver Drive Sewer Extension; Mill Creek Townhomes Sewer Extension, and Publix Sewer Extension.	Hartye		
	d. Cash Commitment/Investment Report – Month Ended January 31, 2016.	Powell		
	07. Old Business:	VeHaun	3:00	
	08. New Business:	VeHaun	3:05	
	09. Adjournment: (Next Meeting 4/20/16)	VeHaun	3:10	
	STATUS REPORTS			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
FEBRUARY 17, 2016**

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 pm, Wednesday, February 17, 2016. Chairman VeHaun presided with the following members present: Ashley, Bryson, Creighton, Frost, Manheimer, Pelly, Root and Wisler. Mr. Belcher, Mr. Collins and Mr. Kelly were absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Forrest Westall with McGill Associates, PE, Marcus Jones with Henderson County, Joseph Martin with Woodfin Sanitary Water & Sewer District, Patti Beaver with CIBO, Ed Bradford, Scott Powell, Peter Weed, Ken Stines, Mike Stamey, Matthew Walter, Jim Hemphill, Angel Banks, and Sondra Honeycutt.

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 20, 2016 Board Minutes:

Mr. VeHaun asked if there were any changes to the Minutes of the January 20, 2016 Board Meeting. Ms. Wisler moved for approval of the minutes as presented. Mr. Creighton seconded the motion. Voice vote in the favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

Mr. VeHaun welcomed Mr. Jones, Mr. Martin and Ms. Beaver. There was no public comment.

6. Report of General Manager:

Mr. Hartye reported that Ed Bradford and Mike Stamey will give an update on the Capital Improvements/Construction that is ongoing throughout the District. He stated the District's total annual budget is approximately \$47.5 million. Of this amount, 65% is construction related. The debt service is for the money borrowed to help pay for a portion of the construction. This year's Construction Budget is \$21.8 million, which is very aggressive.

Mr. Bradford reported there are two active projects at the plant. The Incinerator is one of the larger, which is in its wind down phase. The other is the Influent Pump Station. The current pumps have been in service since the 80's. He presented slides showing the location of the Influent Pump Station Rehabilitation project; a second pump that was installed on 5/29/15 and a picture of a football field 81 feet high that could be filled up by one pump in a 24 hour period. He stated that each of the pumps can pump 35 mgd (or 24,300 gpm). The first pump was replaced in January, 2014 and a third pump is scheduled for replacement next year.

Mr. Bradford reported the Adjustable Frequency Drives (AFD's) are currently being replaced because of their age and environment. He presented slides showing the motors that power the AFD's which allow the motors to slow down or speed up depending on the flow coming into the plant, the new enclosure for the AFD's; lifting the enclosure into place and the interior of the enclosure that protects the equipment. He stated the project is going very well with two (2) of the AFD's wired in completely and

the third complete by next week with full project closeout by spring of this year. Mr. Hartye stated that previously the units were exposed to sewer gases coming in causing the circuit boards to be eaten up by hydrogen sulfide. Replacement circuit boards are obsolete. The new "conditioned environment" will prevent that.

Mr. Bradford reported the Incinerator Emissions Upgrade project located at the north end of the plant was imposed upon MSD by the EPA so MSD staff managed an accelerated design timeframe with consultant CDM Smith, and pre-purchased critical equipment. MSD awarded the construction contract in February, 2015. Total construction cost is \$5.8 million which was reduced by \$5 million by utilizing new technology. The project was operational ahead of schedule in December of 2015, and currently in final compliance testing/start-up phase. He presented slides showing the new Venturi Scrubber which removes particulates; the new Heat Exchanger, and the Mercury Removal System.

Mr. Bradford reported the Plant Headworks Improvement project is coming up this year and was the primary recommendation of the Facilities Plan with replacement of the existing bar screens at the head of the plant; adding improved fine bar screens; adding a storage system for peak flow conditions, utilizing the old abandoned tanks at 2MG each. Design on this project began in July 2015 with construction to begin in the summer of 2016 at an estimated cost of \$10.3 million. He presented a slide showing the location of the project and the CIP Status report. With no questions, he turned the presentation over to Mike Stamey for a report on Construction activities.

Mr. Stamey highlighted the Construction Administration Group who do inspections of contractors constructing CIP projects. The first project is the New Salem Road sewer rehabilitation project in Swannanoa. Terry Brothers Construction is the contractor on this project and includes approximately 3,800 LF of existing MSD sewer. The majority of the project (2,900 LF) is being rehabilitated through a trenchless technology method called "cured in place lining." He presented slides showing the process. The next project is the South French Broad Interceptor grouting project on the grounds of the Biltmore Estate. Lake County Sewer Company is the contractor and the project consists of 12,000 LF of 36" sewer line, which includes chemical grouting for all the joints in the line. He presented slides showing the grouting process. He presented a slide showing the location of other CIP inspection projects that include Hilliard Avenue @ Aston Park, which is 70% complete; Shadowlawn Drive Phase 2, scheduled to begin March 14th and Oakland Drive @ Pine Street rehabilitation, to be considered as part of today's Consolidated Motion Agenda.

Mr. Stamey reported that In-house Construction projects include improvements at the Weaverville No. 1 Pump Station, which serves the entire Weaverville area and consists of adding a third pump to increase pumping capacity. He presented several slides showing the process for installation of the new pump. Another project is located in West Asheville on Winnfred Street and Delaware Avenue. replacing 800 LF of sewer line. He presented slides showing a manhole replacement and site restoration on this project. Current in-house projects include Murdock Avenue @ Edwin Place; Hunt Hill Place adjacent to McCormick Field, replacing 800 LF of sewer line, and Evelake Drive off of Leicester highway, replacing 200 LF of sewer line. Mr. Hartye stated the ability of in-house crews doing pump station work is rare with the many disciplines involved; electrical, mechanical and site work that would ordinarily be contracted out. With regard to the Biltmore Estate line, Mr. Hartye stated the 36" line is fine with the exception of having to chemically grout the joints, which will hopefully reduce inflow when the river is up and help maintain the life of the line. However, a future line will ultimately be needed to run parallel with this interceptor across the Estate.

Mr. Hartye reported the North Carolina Supreme Court will hear the City of Asheville appeal to the decision ordered by the NC Appeals Court. Mr. Clarke stated the

Supreme Court sent out a notice yesterday that oral arguments will be heard the second or third week in May in the Burke County Court House in Morganton, NC.

Mr. Hartye reported Billie Black of Elk Mountain Road called to let everyone know how much she appreciated Eric Bryant's kindness and how he went above and beyond his responsibilities to help her.

Mr. Hartye reported the February ROW Committee has been cancelled. The next meeting will be held at 9 am on March 23rd. The next regular Board Meeting will be held March 16th at 2 pm.

7. Consolidated Motion Agenda:

a. Consideration of Bids – Four-inch Main Oakland Drive @ Pine Street:

Mr. Hartye reported this project is located in Black Mountain just north of Lake Tomahawk. The project is comprised of approximately 1,510 LF of 8" DIP. The contract was advertised and the following bids were received on January 28, 2016: Huntley Construction Co., with a bid of \$399,524.40; David Grading, Inc. with a bid of \$398,353.00; Thomas Construction Co. with a bid of \$352,466.00; Patton Construction Co. with a bid of \$321,770.00, and Terry Brothers Construction Co. with a bid of \$283,994.00. The apparent low bidder is Terry Brothers Construction Co. with a bid of \$283,994.00. The FY 15-16 Construction Budget for this project is \$421,000.00. Staff recommends award of the contract to Terry Brothers Construction Co., in the amount of \$283,994.00 subject to review and approval by District Counsel.

b. Consideration of Auditing Services Contract for FY2016:

Mr. Powell reported in July staff informed the Board of its desire to issue an RFP for auditing services. A Selection Committee evaluated responses from the firms which replied to the RFP. The Selection Committee chose Cherry Bekaret, LLP due to their audit approach, the firms staffing, turnover rate, and notably the governmental utility experience in North Carolina. At the September 16th Board Meeting, the Board approved Cherry Bekaret, LLP as auditors for the FY 2016 fiscal period. Staff recommends approval of the 2016 audit contract in the amount of \$45,000.

c. Second Quarter Budget to Actual Review FY 2016:

Mr. Powell reported on Page 33 is the District's first quarter Budget to Actual Revenue and Expenditure Report. Domestic and User Fees are at budget expectations. Facility and Tap Fees are above budgeted expectations due to receiving \$982,500 from three developers. Interest and miscellaneous income are at below budgeted expectations. Fixed income investment yields have slightly increased due to current Federal Reserve policy. O&M expenditures are at 47.86% of budget. They include encumbered amounts. These amounts will be spent in future periods (Encumbrances \$500,000). 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 first quarter is 19.5%. 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, this amount is considered reasonable.

d. Cash Commitment/Investment Report Month Ended December 31, 2015:

Mr. Powell reported Page 36 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 37 is the MSD Investment Manager report as of the month of December. The weighted average maturity of the investment portfolio is 158 days. The yield to maturity is .59% and exceeds bench marks of the 6 month T-Bill and NCCMT cash portfolio. Page 40 presents the MSD Variable Debt Service report. The 2008 Series Bonds are performing better than budgeted expectations. As of the end of December both issues have saved the District customers over \$4.3 million dollars in debt service since April, 2008.

With no discussion, Mr. Pelly moved for approval of the Consolidated Motion Agenda as presented. Ms. Bryson seconded the motion. Roll call vote was as follows: 9 Ayes; 0 Nays.

8. Old Business:

None

9. New Business:

None

10. Adjournment:

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

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO: MSD Board
FROM: Thomas E. Hartye, P.E., General Manager
DATE: March 11, 2016
SUBJECT: Report from the General Manager

- Current Partnership Projects

- MSD is currently partnering with RiverLink on a stream restoration project along Smith Mill Creek. RiverLink has secured funding from both the Clean Water Management Trust Fund and the Pigeon River Fund for this project to improve water quality in this area due to erosion. This may well lead to other such projects throughout the region.
- Biltmore Outlets approached MSD about taking over the private sewer system that serves this new complex and was previously owned and maintained by the Mall. On the Board Agenda we are recommending take over of that system which will also allow MSD to get rid of a pump station in the Ingles parking lot across the street. This is very beneficial to all three entities.
- MSD is assisting UNCA in researching the possibility of using an energy recovery system on the MSD sewer main running through campus. This would utilize the energy derived from the temperature of the sewage to provide energy to facilities on campus.

- Board/Committee Meetings/Events

The next Right of Way Committee meeting will be held at 9 am on March 23rd. The next Regular Board Meeting will be held on April 20th at 2 pm.

- FY 2017 Budget Process and Committee Meetings

As a part of developing this preliminary budget, the Personnel Committee will meet on April 26th at 9 am to consider Cost of Living/ Merit pay and Benefit Allocations (i.e. Self-Funded Medical & Dental Program). The CIP Committee will meet on April 28th at 8:30 am to consider an update of the Ten-Year Capital Improvement Program and the FY 2017 Construction Fund Budget. The Finance Committee will meet May 5th at 9am to consider a Preliminary Budget with an updated 10 year Business Plan which will incorporate the recommendations from the other Committees along with the proposed FY17 Operating Budget and Sewer Rates.

At the May 18th Regular Board Meeting the Board will be asked to consider the Preliminary FY17 Budget and Sewer Rates. The Board will be asked to consider the Final FY17 Budget at the June 15th Regular Board Meeting.

Metropolitan Sewerage District of Buncombe County

BOARD ACTION ITEM

BOARD MEETING DATE: March 16, 2016

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

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

SUBJECT: Consideration of Bids - Pump Station Improvement Projects: Bypass Pump Staging Areas, MSD Project No. 2014033

BACKGROUND: This project is located at the treatment plant and the Carrier Bridge pump station (the largest of MSD's 32 pump stations).

The purpose of this project is to construct permanent, easily accessible areas with bypass piping connections where MSD's large by-pass pumps can be quickly mobilized and connected. These will be utilized in the event of an emergency, or to aid with maintenance of these facilities if bypassing is needed.

Also included in the project is the installation of two concrete areas between RBC basins in order to allow for easier maintenance with MSD's large trucks. This area is currently soil, and cannot support the weight of heavy cleaning equipment.

The contract was advertised informally and two bids were received on March 2, 2016 in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) Carolina Specialties, LLC	\$329,812.25
2) NHM Constructors, LLC	\$267,260.00

The apparent low bidder is NHM with a bid amount of \$267,260.00. NHM has completed multiple projects at the plant including the recent Slide Gate Project, and their work quality has been excellent on those projects.

Staff also included an alternate to install concrete instead of asphalt for the drive surfaces. This option will only add \$2,140 to the total project cost, and is therefore recommended.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY15-16 Construction Budget for this project is \$450,000.00.

STAFF RECOMMENDATION: Staff recommends award of this contract to NHM Constructors in the amount of \$269,400.00 (\$267,260+\$2,140), subject to review and approval by District Counsel.

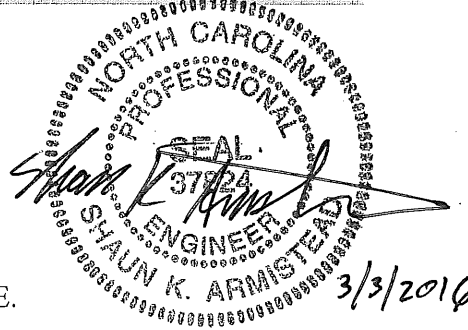
**METROPOLITAN SEWERAGE DISTRICT OF
BUNCOMBE COUNTY, NORTH CAROLINA**

**BYPASS PUMP STAGING AREAS
PROJECT NO. 2014033**

**BID TABULATION
March 2, 2016**

BIDDER	Total Bid Amount
Carolina Specialties Hendersonville, NC	\$329,812.25
NHM Constructors, LLC Asheville, NC	\$267,260.00

APPARENT LOW BIDDER



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

This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 2nd day of March, 2016, in the W.H. Mull Building at the Metropolitan Sewerage District of Buncombe County, Asheville, North Carolina. This was an informal bid and no bid bond was required.

Interoffice Memorandum

TO: Tom Hartye, General Manager

FROM: Ed Bradford, Director of Engineering
Shaun Armistead, Project Manager

DATE: March 3, 2016

RE: **Bypass Pump Staging Areas; MSD Project No. 2014033**

The Bypass Pump Staging Areas are located at the French Broad Water Reclamation Facility and near the District's Carrier Bridge Pump Station on Amboy Road.

The staging area construction will consist of all site work, concrete pads, asphalt driveways, storm water drainage system, manhole rehabilitation, sewer line construction, gates and fencing, and all work and materials that may be related to or necessary for the complete and operational use of both facilities.

The project will also include installation of a 6-inch reinforced concrete drive between RBC Basins 2 and 3 at the French Broad Water Reclamation Facility. An alternate bid item of 6-inch reinforced concrete versus asphalt pavement for the secondary driveway at the Water Reclamation Facility near the Bypass Staging Area was also included.

Two proposals were received on Wednesday, March 02, 2016, as follows:

<u>Contractor</u>	<u>Bid</u>	<u>Alternate</u>
1) Carolina Specialties, LLC	\$329,812.25	\$60,348.75
2) NHM Constructors, LLC	\$267,260.00	\$58,000.00

The FY15-16 construction budget for this project is \$450,000. The alternate shown above is for the drive and new surfaces at the plant to be constructed with concrete as opposed to asphalt. The asphalt drive (included in the bid) will cost approximately \$55,860. To change it to concrete will add \$2,140 (\$58,000-\$55,860) to the contract amount. Staff therefore recommends using concrete as opposed to asphalt.

MSD has worked with NHM Constructors, LLC on multiple projects including the recent Slide Gate Replacement project. They have proved to be a capable contractor and responsive to all requests from MSD staff.

MSD staff recommends award of this contract to NHM Constructors, LLC contingent upon review by District Counsel.

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

BUDGET DATA SHEET - FY 2015 - 2016

PROJECT: Bypass Pump Staging Areas	LOCATION: MSD-Treatment Plant
TYPE: Treatment Plant	PIPE RATING: NA
PROJECT NO.: 2014033	TOTAL LF: 0
PROJECT BUDGET: \$451,550.00	PROJECT ORIGIN: WRF Director

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/14	EST. COST JAN - JUNE 2015	BUDGET FY 15-16
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$1,550.00	\$1,550.00		
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$450,000.00			\$450,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING				
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$451,550.00	\$1,550.00	\$0.00	\$450,000.00

ENGINEER: MSD	SA	ESTIMATED BUDGETS - FY '16 -'25		
R.O.W. ACQUISITION: MSD	# PLATS: [0]	FY 16-17		\$0.00
CONTRACTOR:		FY 17-18		\$0.00
CONSTRUCTION ADM.: MSD		FY 18-19		\$0.00
INSPECTION: MSD		FY 19-20		\$0.00
		FY 20-21		\$0.00
PROJECT DESCRIPTION: Two 5 mgd emergency bypass pumps were purchased in FY 12/13 for use at the treatment plant, Carrier Bridge Pump Station, and other locations as may be needed. A staging area will be constructed at the treatment plant and the Carrier Bridge Pump Station to provide prompt bypass pumping setup at these locations. Layflat piping will be purchased for emergency bypass pumping at Carrier Bridge Pump Station. Additionally, this project will include a concrete drive between RBC Basins #2 & #3.		FY 21-22		\$0.00
		FY 22-23		\$0.00
		FY 23-24		\$0.00
		FY 24-25		\$0.00

SPECIAL PROJECT NOTES:



**Bypass Pump Staging Area
Project No. 2014033**

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: March 16, 2016

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: Hendersonville Rd. @ Mills Gap Road Sanitary Sewer Replacement Project, MSD Project No. 2008185

BACKGROUND: This project is located in South Asheville, directly at the Ingles store on Hendersonville Road.

The 8-inch through 12-inch vitrified clay lines in this area are in poor structural condition, and the project has a resulting high pipe rating. The rehabilitation project is comprised of 2,194LF of pipe bursting and 604LF of Dig & Replace, for a total of 2,798LF.

Pipe bursting and night construction have been specified in order to minimize disturbance to multiple businesses, including two banks and Ingles (the line runs directly through the main parking lot in front of the Ingles store).

The contract was advertised and one bid was received on January 5, 2016. The project was therefore re-advertised and one bid was again received on January 13, 2016 from Terry Brothers in the amount of \$723,448.00. This exceeds the budget, so staff re-advertised again and received bids on February 25, 2016 in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) Davis Grading, Inc.	\$772,948.00
2) Terry Brothers Const. Co.	\$703,488.00

The construction estimate was \$650,000.00. The contractors' pricing is reflective of project complexity and the night construction, which was added during ROW negotiations after the budget was prepared. Sufficient funds are available in the Contingency Fund for the overage.

Terry Brothers has completed numerous MSD sewer rehabilitation projects to date, and their work quality has been excellent on those projects.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY15-16 Construction Budget for this project is \$650,000.00.
Sufficient funds are available in the Contingency Fund for the overage.

STAFF RECOMMENDATION: Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$703,488.00, subject to review and approval by District Counsel.

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

**HENDERSONVILLE ROAD @ MILLS GAP ROAD
SEWER REHABILITATION
PROJECT NO. 2008185**

**BID TABULATION
February 25, 2016**

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	Total Bid Amount
Davis Grading, Inc. Shelby, NC	5%	2	Yes	\$772,948.00
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$703,488.00

Apparent Low Bidder

Darin Prosser, P.E.
Project Engineer
Metropolitan Sewerage District of
Buncombe County, North Carolina



This is to certify that the bid tabulated herein was publicly opened and read aloud at 2:00 PM on the 25th day of February, 2016, 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. This was a re-advertisement; only one bid was received on the original bid date.

Interoffice Memorandum

TO: Tom Hartye, General Manager

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

DATE: February 26, 2016

**RE: Hendersonville Road @ Mills Gap Road Sewer Rehabilitation,
MSD Project No. 2008185**

The Hendersonville Road @ Mills Gap Road Sewer Rehabilitation project is located in South Asheville along Hendersonville Road. This project begins in the northwest end of Ingles Market and continues south through properties on the west side of Hendersonville Road. A portion of the project crosses Hendersonville Road via pipe bursting and runs through TD Bank and Bank of America.

This project consists of the rehabilitation of existing 6" DIP; and 8", 10", and 12" VCP sewer lines using pipe bursting and dig and replace methods. Approximately 2,194 LF of 8" and 12" HDPE will be installed by pipe bursting and approximately 604 LF of 8" and 12" DIP will be installed by dig and replace. The existing lines along this portion of Hendersonville Road have a pipe rating of 62 due to the poor condition of clay pipes. This project will be complex due to mandatory night construction, depth of the existing lines, and poor soil conditions.

The project was advertised and on January 5, 2016, one sealed bid was received. The project was therefore re-advertised and one bid was received on January 13, 2016 at 2:00 pm. This bid was in the amount of \$723,488.00 and was over the construction budget of \$650,000.00. The project was therefore re-advertised again, and bids were received on February 25, 2016 in the following amounts:

<u>Contractor</u>	<u>Bid Amount</u>
1) Davis Grading, Inc.	\$772,948.00
2) Terry Brothers Construction Co., Inc.	\$703,488.00

The apparent low bidder is Terry Brothers Construction Co., Inc. with a bid amount of \$703,488.00. The FY15-16 construction budget for this project is \$650,000.00. The bid exceeds budgeted funds due to the complexity of the project and the addition of night construction. The night construction was added after the budget was prepared.

One issue which increased the price of this project is pipe bursting through a 6" ductile iron pipe. A small diameter ductile iron pipe would require static pipe bursting, which actually grinds the pipe instead of actually "bursting" it. There are two pipes in close proximity crossing Hendersonville Road, this 6" DIP and a 10" VCP. This 6" DIP was selected due to the location of the access manhole being further away from Hendersonville Road, plus it is the shorter distance to pipe burst.

Terry Brothers Construction Co. has an extensive history completing District rehabilitation and replacement projects with excellent workmanship and quality. Staff recommends award of this contract to Terry Brothers Construction Co., Inc. contingent upon review and approval by District Counsel.

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

BUDGET DATA SHEET - FY 2015 - 2016

PROJECT: Hendersonville Rd. at Mills Gap Rd.	LOCATION: Asheville
TYPE: General Sewer Rehab.	PIPE RATING: 62
PROJECT NO. 2008185	TOTAL LF: 2,855
PROJECT BUDGET: \$1,025,000.00	PROJECT ORIGIN: SSO's; Work orders; Line condition

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/14	EST. COST JAN - JUNE 2015	BUDGET FY 15-16
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$33,600.00	\$33,600.00		
55330 - DESIGN				
55340 - PERMITS	\$1,000.00		\$1,000.00	
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$8,200.00	\$3,880.00	\$4,320.00	
55370 - LEGAL FEES	\$8,000.00	\$7,874.00	\$126.00	
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION	\$300,000.00		\$200,000.00	\$100,000.00
55400 - APPRAISAL	\$5,000.00			\$5,000.00
55410 - CONDEMNATION	\$10,000.00			\$10,000.00
55420 - CONSTRUCTION	\$650,000.00			\$650,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$2,000.00			\$2,000.00
55450 - SURVEY - ASBUILT	\$7,200.00			\$7,200.00
TOTAL AMOUNT	\$1,025,000.00	\$45,354.00	\$205,446.00	\$774,200.00

ENGINEER: MSD	DP	ESTIMATED BUDGETS - FY '16 -'25	
R.O.W. ACQUISITION: MSD	# PLATS: [7]	FY 16-17	\$0.00
CONTRACTOR:		FY 17-18	\$0.00
CONSTRUCTION ADM: MSD		FY 18-19	\$0.00
INSPECTION: MSD		FY 19-20	\$0.00
		FY 20-21	\$0.00
		FY 21-22	\$0.00
PROJECT DESCRIPTION: This project will replace an existing 8-inch and 12-inch sewer line serving properties along US 25 (Hendersonville Hwy.) near Mills Gap Rd. The existing lines are in poor condition with cracked and broken pipes and leaking joints. Both open trench and pipe bursting construction techniques will be utilized.		FY 22-23	\$0.00
		FY 23-24	\$0.00
		FY 24-25	\$0.00

SPECIAL PROJECT NOTES:



**Hendersonville Road at Mills Gap Road
Project No. 2008185**

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: March 16, 2016

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

PREPARED BY: Kevin Johnson, P.E.

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Asheville Outlets Sewer Conveyance, MSD Project No. 2014083

BACKGROUND: This project is located inside the District boundary off Brevard Road in the City of Asheville. The developer of the project is Asheville Retail Associates, LLC and Higbee Lancoms, LP.

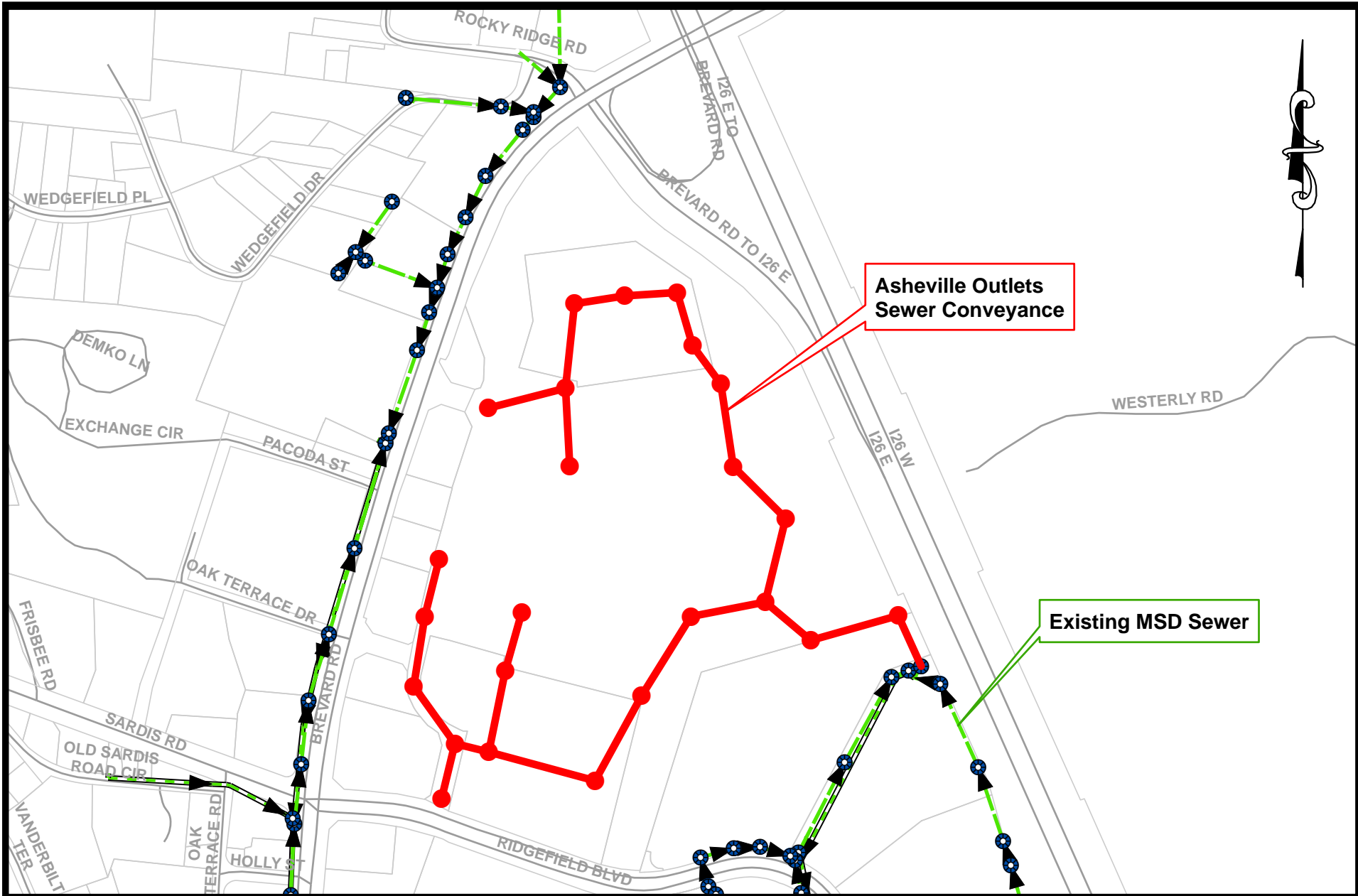
The project included conveying a private collection system and associated easements for approximately 6,070 linear feet of 8-inch gravity sewer which serves the Asheville Outlets (formerly the Biltmore Square Mall).

This sewer system was built to public standards in 1988. The current approximate value of this system is \$202,435.00.

It is important to note that with the acceptance of this system, the District will be able to eliminate its Venable Pump Station. This pump station elimination project is ready for advertisement, and is expected to come before the Board for approval in Spring of this year.

All MSD requirements have been met.

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



**Asheville Outlets
Sewer Conveyance**

Existing MSD Sewer



MSD
Engineering Division

Asheville Outlets Sewer Conveyance Project # 2014083
Metropolitan Sewerage District of Buncombe County

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: March 16, 2016

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

PREPARED BY: Kevin Johnson, P.E.

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Beaver Drive Sewer Extension, MSD Project No. 2015021

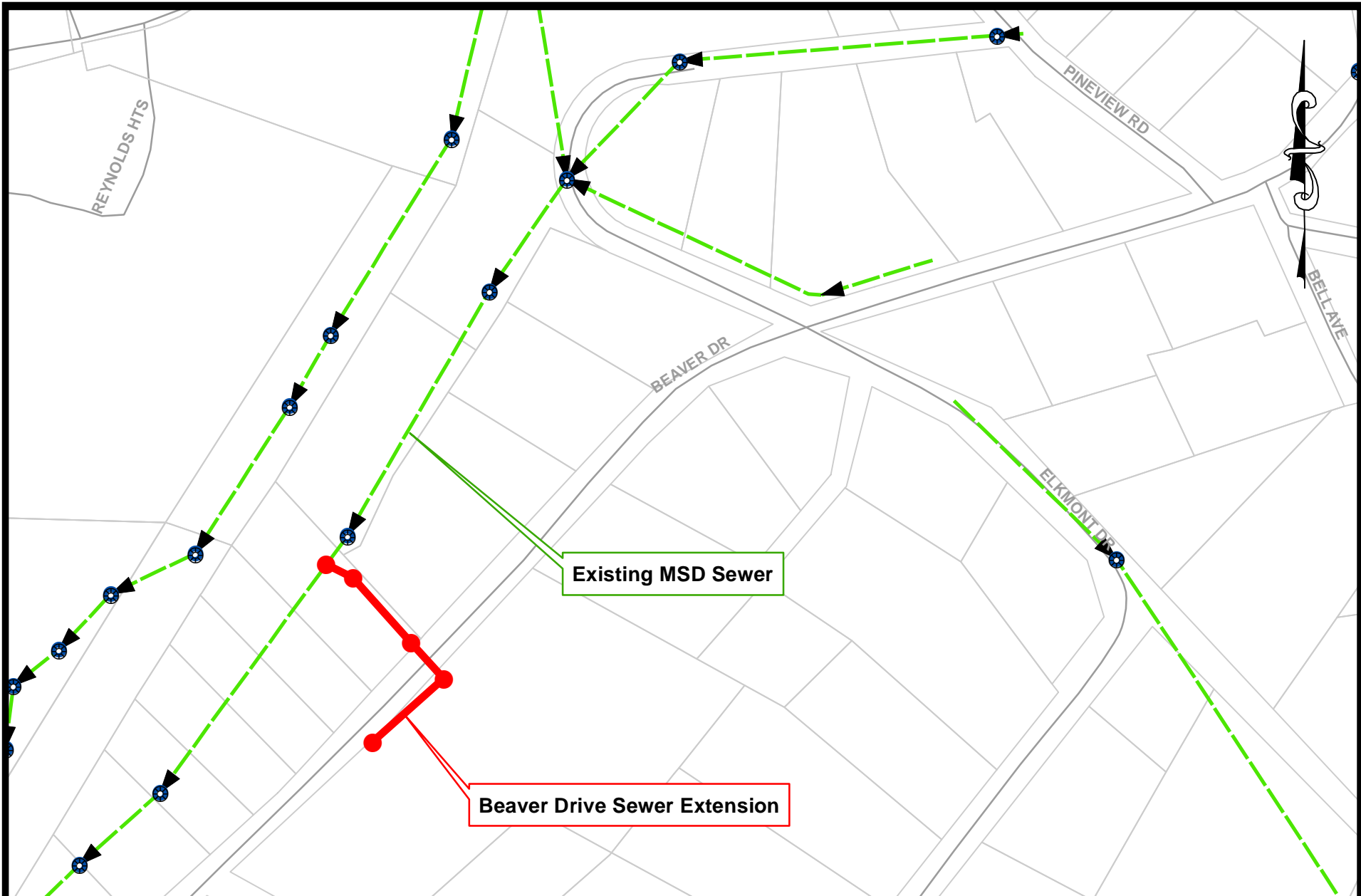
BACKGROUND: This project is located inside the District boundary off Beaver Drive in the Town of Woodfin. The developer of the project is Lynn Bowers of Heartside Investments, Inc.

The project included extending approximately 230 linear feet of 8-inch public gravity sewer to serve the six (6) unit single family residential development.

A wastewater allocation was issued in the amount of 1,800 GPD for the project. The estimated cost of the sewer construction is \$29,500.00.

All MSD requirements have been met.

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



MSD
Engineering Division

Beaver Drive Sewer Extension Project # 2015021
Metropolitan Sewerage District of Buncombe County

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: March 16, 2016

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

PREPARED BY: Kevin Johnson, P.E.

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Mill Creek Townhomes Sewer Extension, MSD Project No. 2014037

BACKGROUND: This project is located inside the District boundary off Old County Home Road in Buncombe County. The developer of the project is Greg Phillips of Mayfair Partners, LLC.

The project included extending approximately 84 linear feet of 8-inch public gravity sewer to serve the eighteen (18) unit residential development.

A wastewater allocation was issued in the amount of 5,400 GPD for the project. The estimated cost of the sewer construction is \$7,500.00.

All MSD requirements have been met.

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



Mill Creek Town Homes Sewer Extension

Existing MSD Sewer



MSD
Engineering Division

Mill Creek Town Homes Sewer Extension Project # 2014037
Metropolitan Sewerage District of Buncombe County

3/02/16

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: March 16, 2016

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

PREPARED BY: Kevin Johnson, P.E.

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Publix Sewer Extension, MSD Project No. 2013134

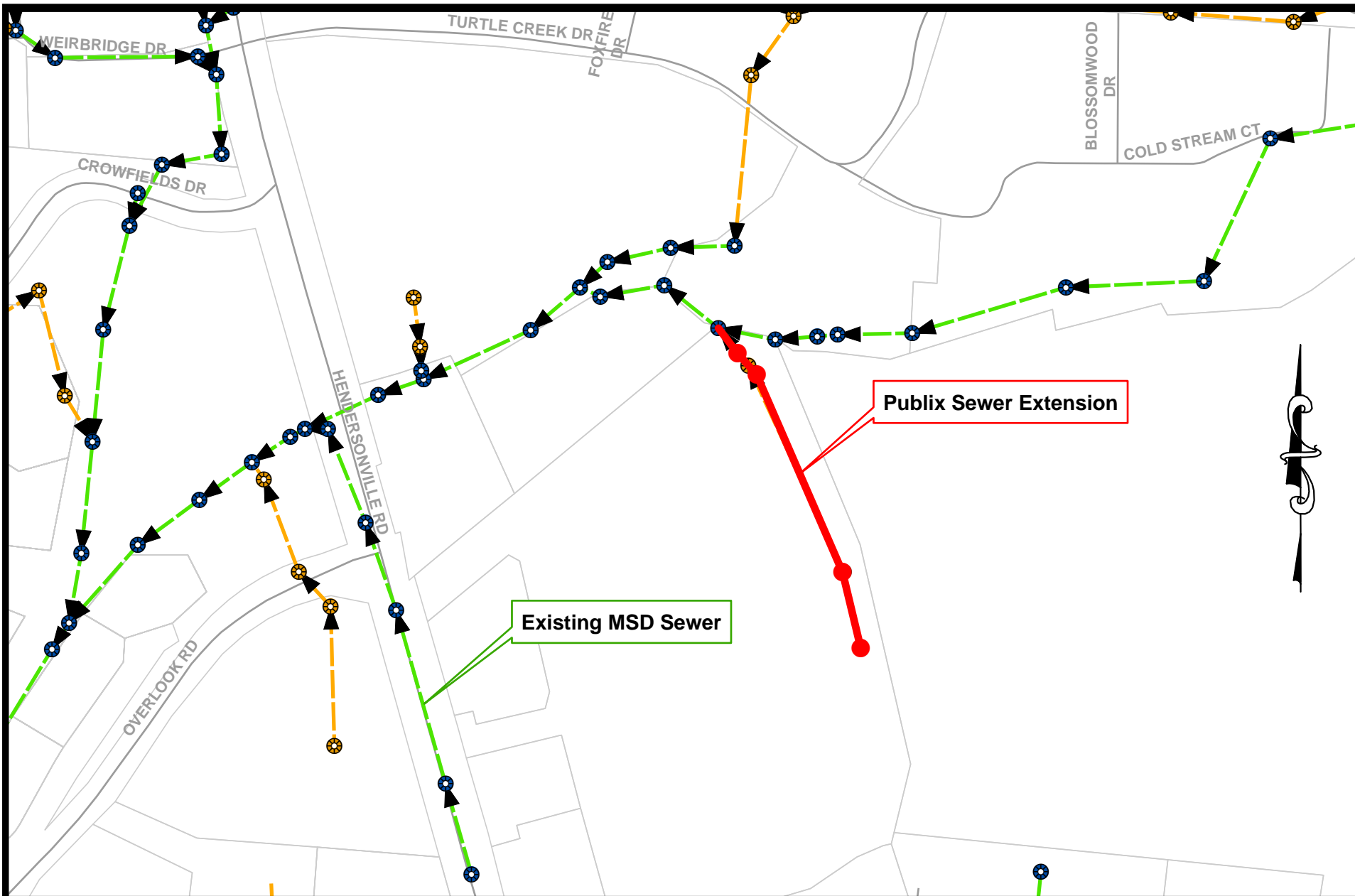
BACKGROUND: This project is located inside the District boundary off Hendersonville Road in the City of Asheville. The developer of the project is Jim White of White Development Company.

The project included extending approximately 628 linear feet of 8-inch public gravity sewer to serve the commercial development.

A wastewater allocation was issued in the amount of 11,871 GPD for the project. The estimated cost of the sewer construction is \$70,000.00.

All MSD requirements have been met.

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



MSD
Engineering Division

Publix Sewer Extension Project # 2013134
Metropolitan Sewerage District of Buncombe County

3/02/16

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: March 16, 2016

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, 2016

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, 2016 were \$46,527,438. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.479%. 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, 2016 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of January 31, 2016 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$16,385,432.

Total Cash & Investments as of 01/31/2016		46,527,438
Less:		
Budgeted Commitments (Required to pay remaining FY16 budgeted expenditures from unrestricted cash)		
Construction Funds	(10,391,884)	
Operations & Maintenance Fund	<u>(7,460,543)</u>	
		(17,852,427)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(4,611)	
FY16 Principal & Interest Due	<u>(7,072,150)</u>	
		(7,076,761)
District Reserve Funds		
Fleet Replacement	(699,499)	
WWTP Replacement	(492,905)	
Maintenance Reserve	<u>(913,447)</u>	
		(2,105,851)
District Insurance Funds		
General Liability	(417,267)	
Worker's Compensation	(214,368)	
Post-Retirement Benefit	(1,476,920)	
Self-Funded Employee Medical	<u>(998,412)</u>	
		<u>(3,106,967)</u>
Designated for Capital Outlay		<u><u>16,385,432</u></u>

Staff Recommendation

None. Information Only.

Action Taken

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

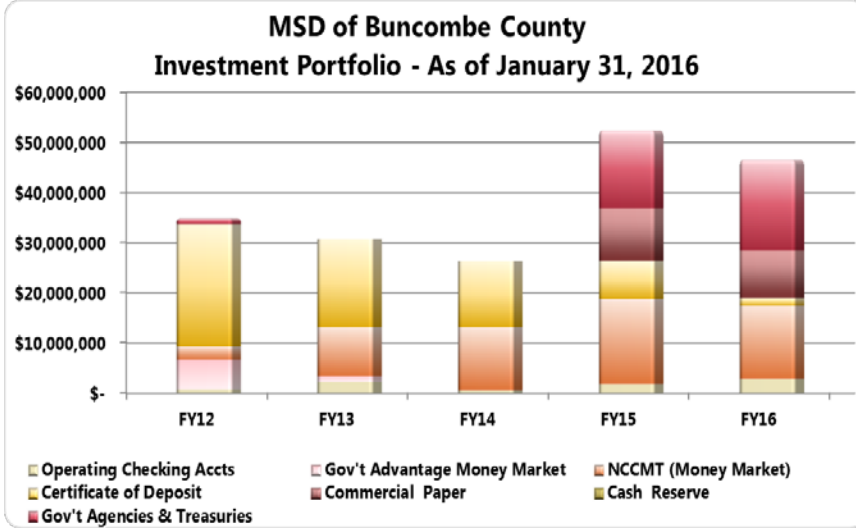
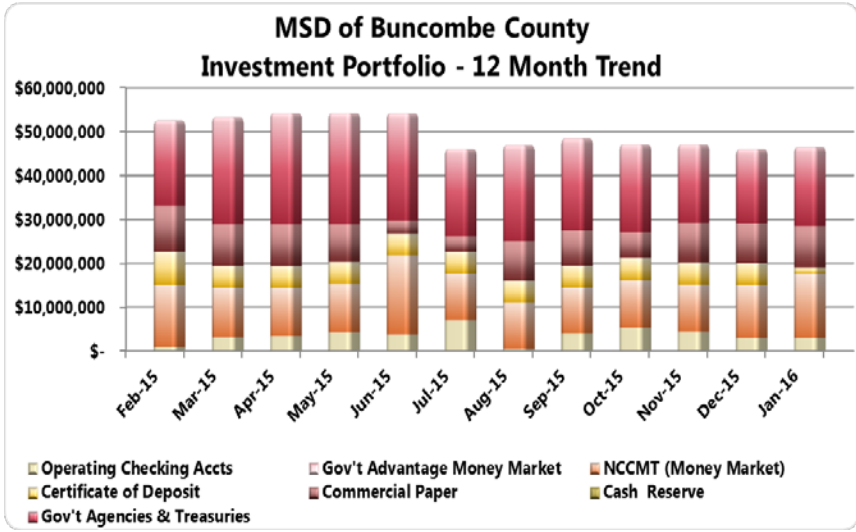
Metropolitan Sewerage District of Buncombe County Investment Portfolio

Board Meeting:
Subject:
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March 16, 2016
 Cash Commitment/Investment Report-Month Ended January 31, 2016

	Operating Checking Accounts	Gov't Advantage Money Market	NCCMT (Money Market)	Certificate of Deposit	Commercial Paper	Cash Reserve	Gov't Agencies & Treasuries	Total
Held with Bond Trustee	\$ -	\$ -	\$ 4,611	\$ -	\$ -	\$ -	\$ -	\$ 4,611
Held by MSD	2,894,674	46,667	14,573,422	1,526,796	9,487,890	-	17,993,378	46,522,827
	\$ 2,894,674	\$ 46,667	\$ 14,578,033	\$ 1,526,796	\$ 9,487,890	\$ -	\$ 17,993,378	\$ 46,527,438

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries, Agencies and Instrumentalities	100%	38.67%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	3.28%	The District 's YTM of .46% is exceeding the YTM benchmarks of the 6 month T-Bill and NCCMT Cash Portfolio.
Commercial Paper	20%	20.39%	
North Carolina Capital Management Trust	100%	31.33%	All funds invested in CD's, operating checking accounts, Gov't Advantage money market are fully collateralized with the State Treasurer.
Checking Accounts:	100%		
Operating Checking Accounts		6.22%	
Gov't Advantage Money Market		0.11%	



Board Meeting:

March 16, 2016

Subject:

Cash Commitment/Investment Report-Month Ended January 31, 2016

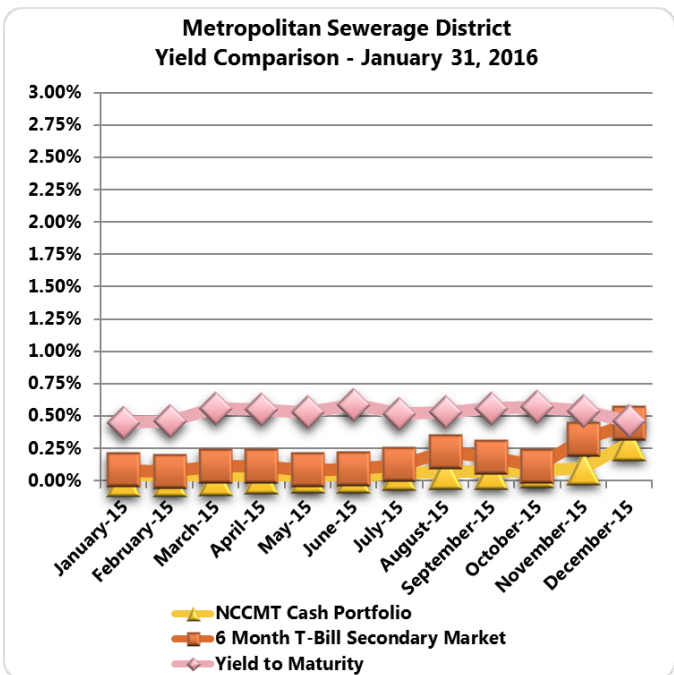
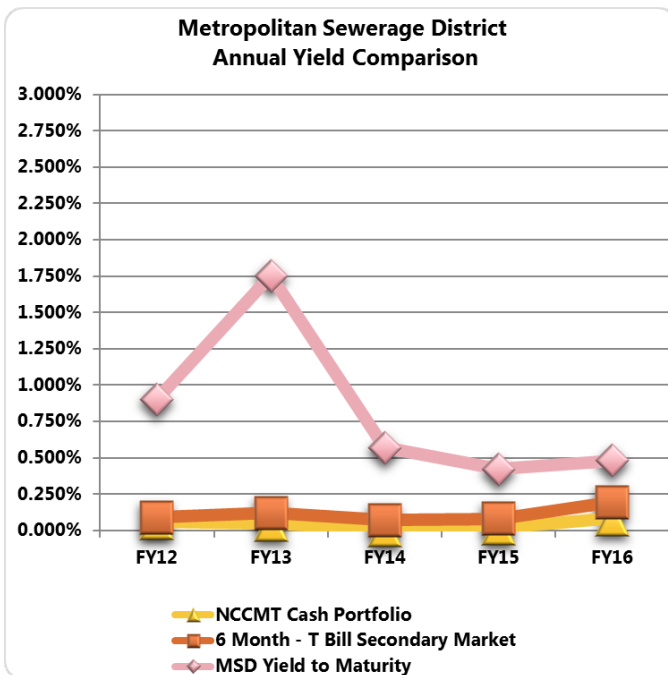
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**METROPOLITAN SEWERAGE DISTRICT
INVESTMENT MANAGERS' REPORT
At January 31, 2016**

Summary of Asset Transactions			
	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 39,760,451	\$ 39,769,668	\$ 464,725
Capital Contributed (Withdrawn)	1,621,881	1,621,881	
Realized Income	371,679	371,679	(368,820)
Unrealized/Accrued Income		3,023	7,291
Ending Balance	\$ 41,754,011	\$ 41,766,251	\$ 103,196

Value and Income by Maturity		
	Original Cost	Income
Cash Equivalents <91 Days	\$ 22,241,462	\$ 7,017
Securities/CD's 91 to 365 Days	16,514,549	5,210
Securities/CD's > 1 Year	2,998,000	946
	\$ 41,754,011	\$ 13,173

Month End Portfolio Information	
Weighted Average Maturity	144
Yield to Maturity	0.46%
6 Month T-Bill Secondary Market	0.44%
NCCMT Cash Portfolio	0.29%



Board Meeting:

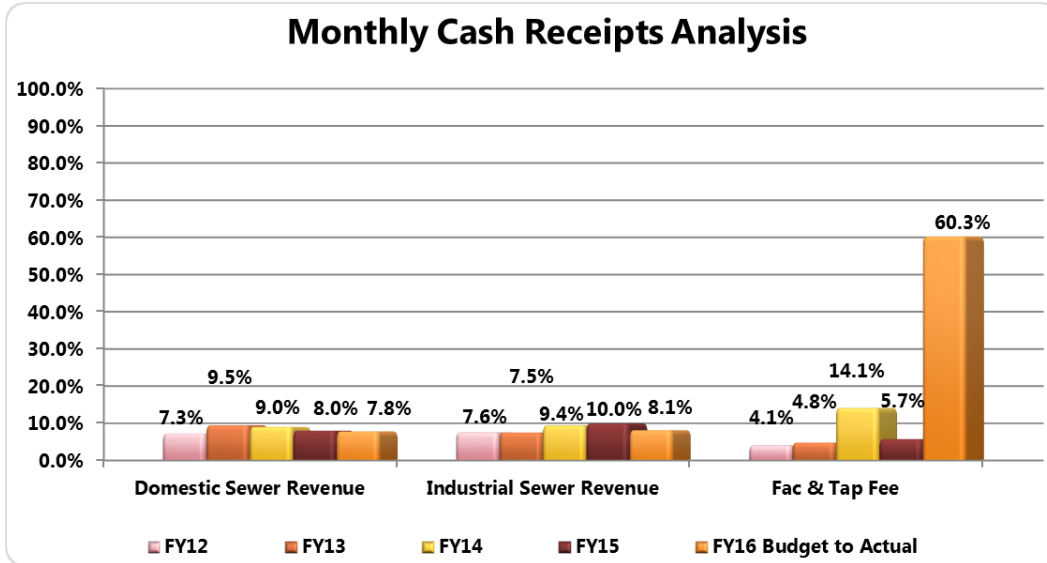
March 16, 2016

Subject:

Cash Commitment/Investment Report-Month Ended January 31, 2016

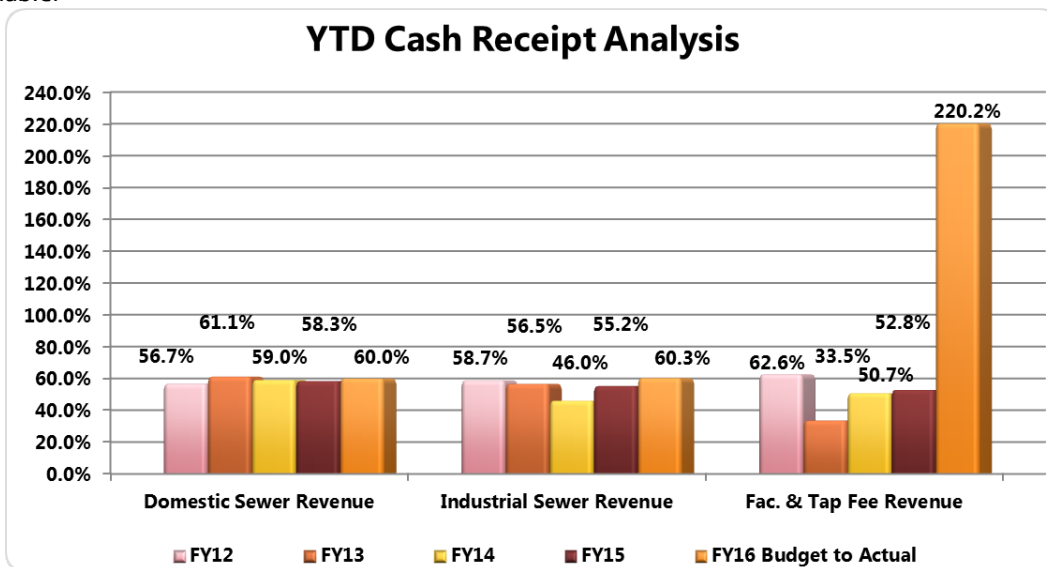
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**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF CASH RECEIPTS
As of January 31, 2016**



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.

Board Meeting:

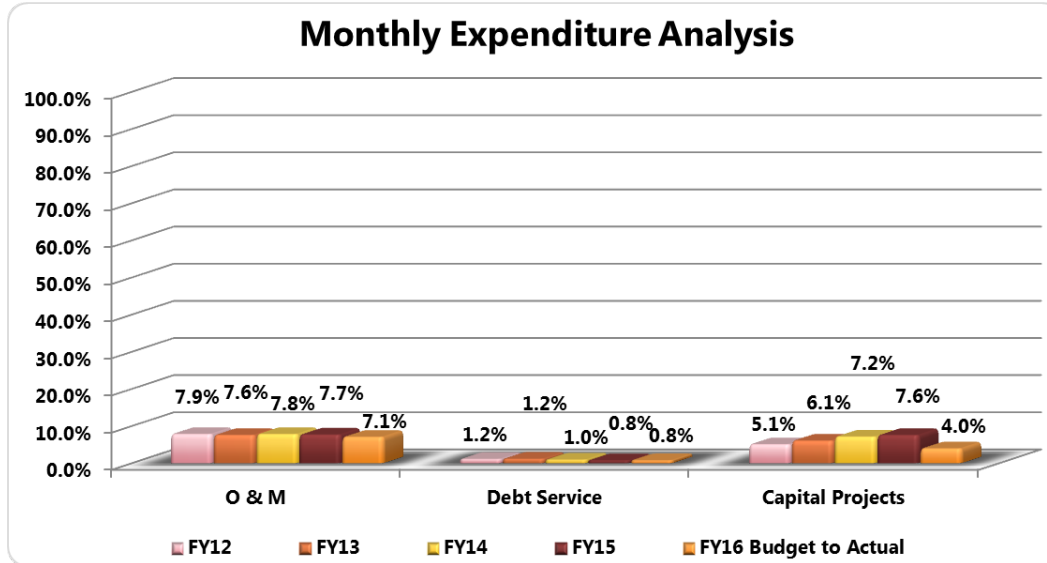
March 16, 2016

Subject:

Cash Commitment/Investment Report-Month Ended January 31, 2016

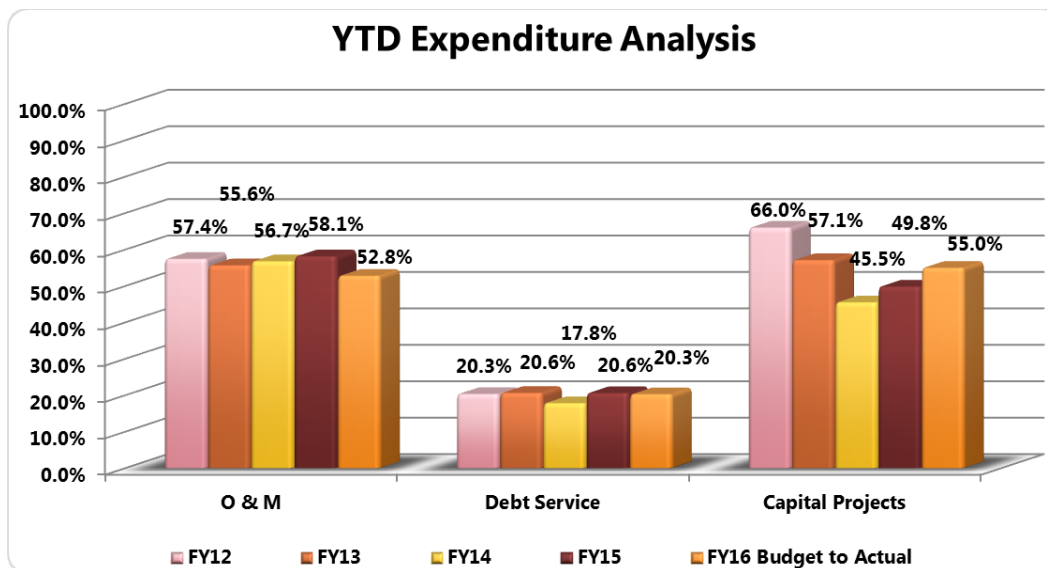
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**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF EXPENDITURES
As of January 31, 2016**



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.

Board Meeting:

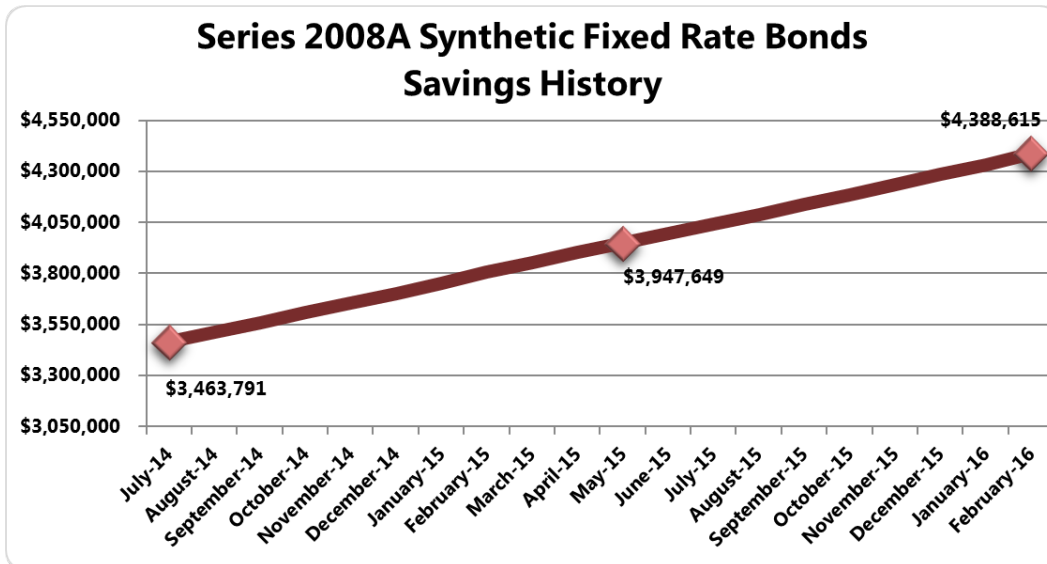
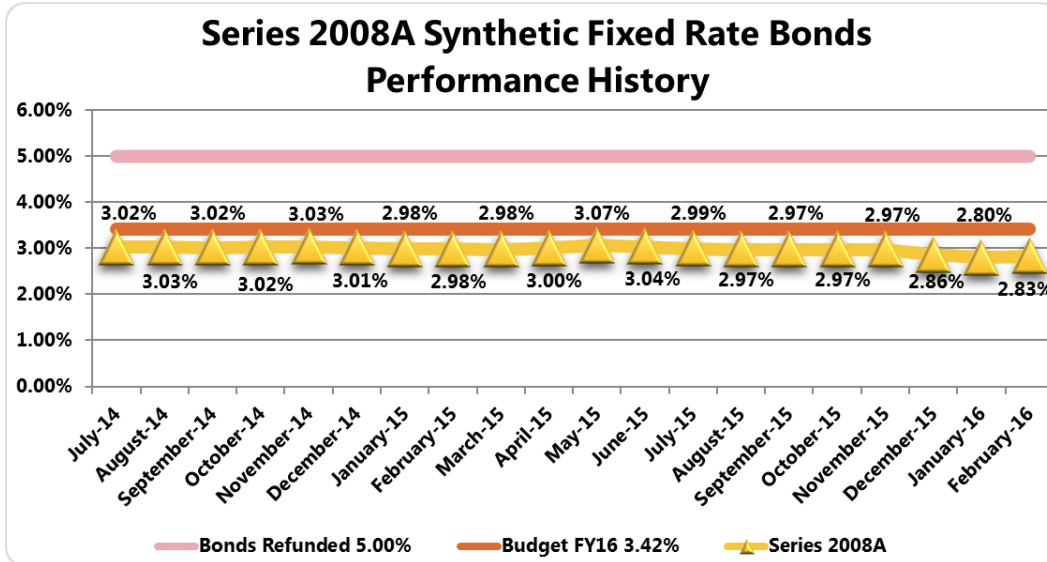
March 16, 2016

Subject:

Cash Commitment/Investment Report-Month Ended January 31, 2016

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**METROPOLITAN SEWERAGE DISTRICT
VARIABLE DEBT SERVICE REPORT
As of February 29, 2016**



Series 2008A:

- ▲ Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$4,388,615 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 \$5,605,724 to terminate the existing Bank of America Swap Agreement.

STATUS REPORTS

MSD System Services In-House Construction
FY 15-16 PROJECTS

PROJECT NAME		ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	Notes
Deanwood Circle Phase 2	Asheville	618	5/14/15 - 7/1/15	225521	631	7/1/2015	618	complete
590 Haywood Rd	W. Asheville	178	7/16/2015	225966	631	7/16/2015	180	complete
Rathfarnham Circle	Arden	520	7/5/15 - 8/1/15	212218	631	7/23/2015	522	complete
26 Claxton Place	Asheville	121	7/29/2015	224709	631	7/29/2015	121	complete
418 Cedar Lane	Royal Pines	815	7/8/15 - 8/7/15	220605	647	8/6/2015	862	complete
Locust Court Rehab	Royal Pines	100	8/10/15-8/14/15	223590	647	8/17/2015	98	complete
Mount Claire Sewer Rehabilitation	Asheville	656	8/3/15-8/21/15	216742	631	8/21/2015	664	complete
New Salem Road Rehabilitation	Swannanoa	50	8/17/15-8/21/15	226294	647	8/18/2015	34	complete
4 Hawthorne Lane	Montford/Asheville	178	8/24/15 - 9/2/15	226596	631	9/2/2015	178	complete
355 Lakeshore Drive	N. Asheville	300	8/19/15 - 9/5/15	225006	647	9/4/2015	347	complete
Covington Street Improvements	W. Asheville	295	9/8/15-9/11/15	200349	631	9/4/2015	197	complete
83 Grayclyn Rd	Asheville	380	9/8/15-10/1/15	220546	647	9/24/2015	492	complete
Panola Street	Asheville	360	9/14/15 - 10/16/15	225178	631	10/9/2015	308	complete
316 Westover Dr	Asheville	775	10-19-15 - 11/1/15	228021	631	11/3/2015	890	complete
Robindale Ave	Asheville	850	9/25/15 - 11/20/15	45877	647	11/25/2015	875	complete
220 Jonestown Road Emergency Rehab	Woodfin	100	12/10/2015	229302	647	12/10/2015	100	complete
Winnfred Street	W. Asheville	420	11/11/15 - 12/18/15	208324	631	12/18/2015	598	complete
Erwin Hills Road Sewer Extension	Leicester	1000	12/21/15 - 2/22/16	229332	631	2/4/2016	1056	complete
Weaverville Pump Station #1 Improvements	Weaverville	35	11/21/15 - 2/22/16	228575	647	2/4/2016	81	complete
Murdock at Edwin Place Sewer Improvements	Asheville	94	1/25/16 - 2/10/16	229951	647	2/16/2016	97	complete
Hunt Hill Place Phase 1	Asheville	600	2/8/16 - 3/22/16	46650	631	2/26/2016	590	complete
Hunt Hill Place Phase 2	Asheville	200	2/26/16 - 3/3/16	46650	631			In Construction
Evelake Drive (Area 1)	Leicester	135	2/11/16 - 3/3/16	229959	647			In Construction
43 Evelake Drive	Leicester	200	3/4/16 - 3/25/16	231370	647			ready for construction
404 E. State Street	Black Mountain	130	3/4/16 - 3/15/16	231667	631			ready for construction
Sareva Place	N. Asheville	863	3/16/16 - 4/22/16	20330	631			ready for construction
Fair Oaks Rd at Green Road (P/N 2009133)	Arden	1600	3/26/16 - 5/1/16	229966	647			ready for construction
Spears Avenue Rehabilitation	Asheville	300	FY 15-16	225197	647			ready for construction
Celia Place at Bond Street	Asheville	526	FY 15-16	227752	TBA			ready for construction
School Road at Cranford Road	W. Asheville	360	FY 15-16	224943	TBA			ready for construction, MSD Project 2014084
Carjen Avenue	N. Asheville	918	FY 15-16	20331	TBA			ready for construction
111 Compton Drive	Asheville	360	FY 15-16	228741	TBA			In design
School Road at Woodland	W. Asheville	350	FY 15-16	224993	TBA			In design



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2015 to 1/31/2016

	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 2015	31	7	87	489	32	12	0	91	1116	408	13	1,057	2672
August 2015	27	7	89	427	13	11	6,757	377	307	280	18	1,378	2342
September 2015	33	7	190	747	29	25	10	348	219	479	11	735	1781
October 2015	42	7	226	1,023	18	21	190	202	137	182	5	126	647
November 2015	28	8	145	505	18	14	440	0	442	1504	16	261	2207
December 2015	30	16	90	616	26	7	220	0	368	598	7	100	1066
January 2016	29	8	121	367	29	11	300	4	100	0	0	0	104
Grand Totals	220	60	947	4,173	165	101	7,917	1,022	2689	3451	70	3,657	10819

* Used to calculate Total Rehab Footage



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2015 to January 31, 2016

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
2015							
July	98,340	1,112	3,630	101,970	35,280	18,250	7,999
August	65,325	1,906	7,190	72,515	24,728	0	13,969
September	79,795	1,645	9,498	89,293	32,353	4,579	17,664
October	38,126	2,363	4,810	42,936	31,243	14,600	21,241
November	42,038	1,966	6,174	48,212	29,033	0	17,487
December	48,491	1,945	8,240	56,731	19,205	1,500	15,016
2016							
January	53,754	1,554	7,559	61,313	18,118	3,663	3,800
Grand Total:	425,869	12,491	47,101	472,970	189,960	42,592	97,176
Avg Per Month:	60,838	1,784	6,729	67,567	27,137	6,085	13,882



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
DAY 1ST RESPONDER				
	July, 2015	80	32	38
	August, 2015	110	31	45
	September, 2015	99	29	39
	October, 2015	98	32	52
	November, 2015	92	31	54
	December, 2015	146	34	44
	January, 2016	90	27	47
		715	31	46
NIGHT 1ST RESPONDER				
	July, 2015	14	19	25
	August, 2015	22	22	28
	September, 2015	23	21	29
	October, 2015	23	37	33
	November, 2015	27	29	33
	December, 2015	22	30	27
	January, 2016	24	23	23
		155	26	29
ON-CALL CREW *				
	July, 2015	28	39	46
	August, 2015	24	48	30
	September, 2015	30	45	51
	October, 2015	26	49	69
	November, 2015	31	49	40
	December, 2015	72	57	51
	January, 2016	46	43	48
		257	49	48
Grand Totals:		1,127	34	44

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

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

March 9, 2016

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
BYPASS PUMP STAGING AREAS	Various	TBD	TBD	TBD	TBD	TBD	0%	Project was bid on March 2nd. NHM Constructors is the apparent low bidder.
HILLIARD AVENUE @ ASTON PARK	Asheville	Buckeye Bridge, LLC	8/19/2015	10/12/2015	3/10/2016	\$542,732.50	80%	Project is progressing well.
MELODY CIRCLE	Swannanoa	Terry Brothers	7/15/2015	8/3/2015	3/1/2016	\$954,087.50	90%	Mainline construction is complete. Ready to pave.
NEW SALEM ROAD	Swannanoa	Terry Brothers	11/18/2015	1/12/2016	4/11/2016	\$474,362.00	60%	Project is progressing well.
OAKLAND DRIVE @ PINE STREET (4-INCH MAIN)	Black Mountain	Terry Brothers	2/17/2016	3/7/2016	6/5/2016	\$283,994.00	0%	Preconstruction meeting was held on March 3rd.
SHADOWLAWN DRIVE PHASE 2	Asheville	Davis Grading, Inc.	1/20/2016	3/14/2016	7/12/2016	\$436,798.00	0%	Preconstruction meeting was held on February 18th. No work has begun yet.
SOUTH FRENCH BROAD INTERCEPTOR - GROUTING	Biltmore	Lake County Sewer Company	10/21/2015	1/4/2016	4/3/2016	\$503,599.00	35%	The first 6,000 feet of sewer rehabilitation is expected to be complete by April 15th. Remaining portion of the project is to be undertaken next winter after Biltmore Estate's peak tourist season.
WRF - INCINERATOR SYSTEM REHABILITATION AND EMISSIONS UPGRADES	Woodfin	Haren Construction Company	2/18/2015	3/25/2015	3/15/2016	\$4,624,000.00	99%	Substantial completion has been given. Contractor is working on last couple of touch up items.
WRF - INCINERATOR BUILDING - MCC REPLACEMENT	Woodfin	Haren Construction Company	N/A	N/A	N/A	\$236,000.00	99%	Final labeling and tagging in process.
WRF - INFLUENT PUMP STATION REHABILITATION: AFD REPLACEMENT	Woodfin	M.B. Haynes	8/19/2015	10/5/2015	5/2/2016	\$428,370.00	90%	Electrical project complete and all pumps running in full auto. Change Orders are pending for additional work not part of original scope of work.

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

Planning & Development Project Status Report

Active Construction Projects

March 16, 2016

#	Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
1	Governor's Western Residence	2014100	Buncombe Co.	Comm.	636	7/22/2015	Final Inspection complete, awaiting close-out docs
2	Greenwood Park Phase 1	2014067	Weaverville	7	283	9/1/2015	Final Inspection complete, awaiting close-out docs
3	Rivermill Lofts Relocation	2014125	Asheville	254	314	8/21/2015	Waiting on final inspection
4	Givens Gerber Park	2014065	Buncombe Co.	260	357	8/7/2015	Waiting on final inspection
5	Hawthorne South (Turtle Creek)	2014130	Asheville	250	400	8/7/2015	Waiting on final inspection
6	Ingles - Smokey Park Highway	2013135	Asheville	Comm.	1,289	4/11/2014	Waiting on final inspection
7	Conestee	2014149	Asheville	7	113	8/7/2015	Pre-con held, ready for construction
8	Audubon Apts. Phase 2	2014027	Buncombe Co.	86	16	5/27/2015	Waiting on final inspection
9	Hunt Hill Apartments	2013111	Asheville	180	1,729	3/5/2014	Waiting on final inspection
10	Rosebriar	2007005	Black Mountain	12	309	8/28/2014	Waiting on final inspection
11	Dilworth Apartments	2015001	Asheville	168	950	8/3/2015	Waiting on final inspection
12	Isaac Dickson School Relocation	2013033	Asheville	School	504	1/13/2014	Waiting on final inspection
13	Gibson Road (aka Four Seasons)	2014138	Asheville	3	137	9/11/2015	Final Inspection complete, awaiting close-out docs
14	Roberts Farm Phase 1B	2015056	Black Mountain	250	1,165	7/29/2015	Installing
15	First Baptist Relocation	2015032	Asheville	Comm.	333	7/21/2015	Waiting on final inspection
16	Biltmore Lake Block "I"	2014128	Buncombe Co.	19	1,676	3/31/2015	Testing
17	Creekside Cottages	2014095	Buncombe Co.	7	504	3/12/2015	Final Inspection complete, awaiting close-out docs
18	Crossings at Beaverdam	2014150	Woodfin	Comm.	119	2/18/2015	Waiting on final inspection
19	Creekside Village Phase 2	2014088	Weaverville	145	2,051	8/7/2015	Final Inspection complete, awaiting close-out docs
20	Busbee Mountain	2007181	Asheville	9	580	9/29/2014	Final Inspection complete, awaiting close-out docs
21	Country Inn & Suites - Westgate	2014089	Asheville	Comm.	204	1/22/2015	Waiting on final inspection
22	Burk Street - Phase III	2014079	Asheville	7	111	11/20/2014	Final Inspection complete, awaiting close-out docs
23	Dillingham Woods	2014048	Asheville	27	375	3/4/2015	Installing
24	790 Riceville Road	2014078	Asheville	8	1,620	3/3/2015	Final Inspection complete, awaiting close-out docs
25	Ramble Block "E"	2015030	Buncombe Co.	22	1,357	7/29/2015	Waiting on final inspection
26	Haw Creek - Waters Road	2014086	Asheville	20	643	7/28/2015	Final Inspection complete, awaiting close-out docs
27	Asheville Middle School	2013125	Asheville	School	214	9/30/2014	Waiting on final inspection
28	Robinhood Relocation	2013107	Asheville	5	230	7/23/2015	Testing
29	Lakeside Meadows	2013067	Weaverville	25	1,096	1/16/2015	Punch-list pending
30	Crest Mountain Phase 3B	2013041	Woodfin	69	1,329	10/15/2013	Waiting on final inspection
31	Evolve Mountain View	2013105	Asheville	148	347	10/21/2014	Final Inspection complete, awaiting close-out docs
32	26 Carl Alwin Place	2014091	Buncombe Co.	Comm.	246	5/1/2015	Final Inspection complete, awaiting close-out docs
33	Bojangles - Smokey Park	2014124	Buncombe Co.	Comm.	382	8/18/2015	Punch-list pending
34	Pisgah View Subdivision	2015120	Buncombe Co.	6	176	9/11/2015	Final Inspection complete, awaiting close-out docs
35	Serenity Falls Subdivision	2015055	Woodfin	45	2,583	9/18/2015	Installing
36	Long Shoals Village Ph. 1 (Bojangles)	2015103	Buncombe Co.	Comm.	535	10/23/2015	Testing
37	Amboy Overlook	2014136	Asheville	19	899	10/20/2015	Installing
38	Bowen Estates	2015064	Asheville	4	178	10/13/2015	Pre-con held, ready for construction
39	Craggy Park	2014164	Asheville	45	1,935	10/23/2015	Installing
40	Pinnacle at Arabella Heights	2006277	Buncombe Co.	28	482	11/10/2015	Testing
41	Settings at Black Mountain	2008016	Black Mountain	30	907	11/13/2015	Installing
42	Cottages at Kenilworth	2015107	Asheville	12	454	12/1/2015	Pre-con held, ready for construction
43	A.B. Tech Fernihurst Relocation	2014061	Asheville	Comm.	697	4/8/2014	TCO, waiting closeout decision and documents
44	Springside Road Townhomes	2015006	Asheville	3	120	12/15/2015	Pre-con held, ready for construction
45	Vance Place	2014084	Asheville	8	398	1/29/2016	Pre-con held, ready for construction
46	The District	2015133	Asheville	309	912	2/26/2016	Pre-con held, ready for construction
47	Asheville Exchange	2015170	Asheville	312	582	2/26/2016	Pre-con held, ready for construction
48	200 Technology Drive	2015213	Buncombe Co.	Comm.	809	2/26/2016	Pre-con held, ready for construction
49	Cheshire Pocket Village	2015129	Black Mountain	15	370	2/26/2016	Pre-con held, ready for construction
50	Hall Avenue	2015035	Asheville	8	329	3/4/2016	Pre-con held, ready for construction
51	Maple Trace Subdivision	2014121	Weaverville	31	2,420	1/29/2016	Pre-con held, ready for construction
52	Mallard Run Phase II	2015090	Buncombe Co.	37	1,217	10/13/2015	Installing
			TOTAL	2,900	37,622		