

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
APRIL 15, 2015**

1. Call to Order and Roll Call:

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2:00 p.m., Wednesday, April 15, 2015.

Chairman VeHaun presided with the following members present: Ashley, Belcher, Bryson, Kelly, Manheimer, Pelly, Stanley, Watts, and Wisler. Ms. Frost and Mr. Root were absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Forrest Westall with McGill Associates PA, Mary Knosby and Brian Thorsvold with HDR Consulting, and MSD Staff, Ed Bradford, Scott Powell, Peter Weed, Ken Stines, Mike Stamey, Jim Hemphill, Sam Sirls, Hunter Carson, 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 March 18, 2015 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the March 18, 2015 Board Meeting. With no changes, Mr. Stanley moved for approval of the Minutes as presented. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

Mr. VeHaun welcomed Ms. Knosby and Mr. Thorsvold. There was no public comment.

6. Report of General Manager:

Mr. Hartye reported that over the next month, the budget will hit the Committee stage with the Personnel Committee, the CIP Committee, and the Finance Committee meetings to consider the FY16 Budget recommendations to the Board. The Preliminary Budget will come before the MSD Board at the May 20th regular meeting, with the Final Budget brought before the Board on June 10th when a Public Hearing will be held.

The next ROW Committee meeting is scheduled for April 22nd at 9 am. The Personnel Committee will meet April 28th at 9 am. The CIP Committee will meet April 30th at 8:30 am. The Finance Committee will meet May 7th at 9 am. The next regular Board Meeting will be held on May 20th at 2 pm.

7. Consolidated Motion Agenda:

a. Consideration of Developer Constructed Sewer Systems: Myra Place Sewer Extension, and Aventine Sewer Extension:

Mr. Hartye reported the Myra Place Sewer Extension project is located inside the District boundary off East Starnes Cove Road in the City of Asheville. The project included extending approximately 85 linear feet of 8-inch public gravity sewer to

serve the twelve (12) unit residential development. Staff recommends acceptance of the developer constructed sewer system. All MSD requirements have been met.

Mr. Hartye reported the Aventine Sewer Extension project is located inside the District boundary near the intersection of Long Shoals Road and Clayton Road in Buncombe County. The project included extending approximately 2,540 linear feet of 8-inch public gravity sewer to serve the 312 unit apartment complex. This extension ties into the West French Board Master Plan Interceptor completed in 2014, which was a partnership with the Developer to bring an interceptor down to one of MSD's nearby pump stations to the aforementioned intersection. Staff recommends acceptance of the developer constructed sewer system. All MSD requirements have been met.

b. Cash Commitment/Investment Report Month Ended February 28, 2015:

Mr. Powell reported Page 13 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 Portfolio is in accordance to the District's investment policy. Page 14 is the MSD Investment Manager report as of the month of February. The weighted average maturity of the investment portfolio is 277 days. The yield to maturity is 0.46% and exceeds MSD bench marks of the 6-month T-Bill and NCCMT cash portfolio. Page 15 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 higher than budgeted expectations due to unanticipated receipts from three (3) developments as well as staff's conservative budgeting of impact fees. Page 16 is the MSD Analysis of Expenditures. The District's O&M expenditures are considered reasonable based on historical trends and current year budgeted needs. Debt service expenditures are below budgeted expectations due to lower than expected interest rates on the District's variable rate debt. Due to the 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 and budgeted funds are expected to be spent at year end. Page 17 is the MSD Variable Debt Service report for the month of March. The 2008A Series Refunding bonds are performing better than budgeted expectations. As of the end of March, both issues have saved District customers \$3.9 million dollars in debt service since April of 2008. With regard to the Month End Portfolio Information, Mr. Kelly asked if the Yield to Maturity figure is continuing to go down. Mr. Powell stated because of the need for cash for the CIP Plan, MSD has to keep the investment horizon very short. Mr. Kelly asked if the NCCMT is only getting one tenth of one percent. Mr. Powell said yes. Mr. Kelly further asked if it's true that some money market funds are charging twenty basis points for investing the funds, and if this is the direction MSD is going. Mr. Powell stated this is the reason you only see one basis point, because this is what investment companies are charging for investment services to the NCCMT.

With no further discussion, Mr. Watts moved for approval of the Consolidated Motion Agenda. Mr. Ashley seconded the motion. Roll call vote was as follows: 10 Ayes; 0 Nays.

8. Facilities Plan Update:

Mr. Hartye reported in 2007 CDM Smith prepared a comprehensive Facilities Plan which provided near, mid-term and long-term recommendations. Many of the near and mid-term improvements are complete. The Facilities Plan needed to be updated because of the changing regulatory environment over the next twenty years; issues with processes meeting the end of their use life, and looking at replacements and examining new technologies going forward. In March, 2014, HDR Consulting was hired to update

the plan. Mr. Hartye called on Ms. Knosby and Mr. Thorsbold for an update.

Ms. Knosby reported the first few months of the project were spent gathering background information from staff to get a better understanding of the plant. They did a Facility Assessment because of issues with various processes such as the screens and the grit as well as some things they would consider re-using in the future. There were a lot of different disciplines; electrical, structural and mechanical issues on site, as well as doing a regulatory assessment. The next step was establishing planning criteria for the future facility, both near-term, mid-term as well as long-term improvements. They looked at the loads coming into the plant, even though the industrial contingent is much less than it previously was, and continue to work with MSD staff to determine what needs to be planned for. They looked at the Preliminary & Primary Treatment, (near-term and mid-term) processes which include Screening, Grit Removal, EQ/Surge Tanks; Primary Treatment and Hydraulic Profile as well as improvements to the property itself. Biological treatment includes short-term, phased, and long-term regulatory considerations, and Interim RBC retrofit plan. Other considerations include Hydraulics, Constructability, Cost; Primary Treatment Pilot Testing (Actiflo and CoMag); Regulatory Strategy, and Ammonia Reduction Evaluation.

Ms. Knosby reported the Parallel Planning Approach identifies the best-fit phased facility plan that implements the right solution at the right time; key considerations and facility planning options. At the Project Initiation Workshop held March 27, 2014, they established, as a team, the goals and objectives of the plan with an emphasis on a complete and phased Facility Plan Update. The biggest concerns were grit removal, screening, future of RBC's and future regulatory requirements. Because MSD wants to stay up-to-date from a maintenance perspective, including newer technologies, it was important to consider future flexibility; how large the plant needs to be 20-40 years from now. On an historical perspective, Mr. Hartye stated a lot of the plant design back in the 80's was centered on the fact that the plant had a small footprint because of a high rock cliff. Therefore, typical activated sludge, which is what most entities used down East, would not fit for the 40mgd plant. Along with that, EPA limited their grant contributions to new technology. One of the new technologies at the plant was the Primary Microscreens, which did not quite pan out. Ms. Knosby reported that other goals and objectives include identifying project phasing; maximizing gravity flow through the plant and minimize/eliminate re-pumping at the intermediate pumping station; peak flow management, and prepare an ammonia reduction evaluation for permit renewal.

Ms. Knosby reported on the following MSD initiated improvements: Gate Replacement to isolate RBC's; RBC Replacement for improved performance/efficiency; RBC Tank Clean-out to remove grit/solids build-up; RBC improved maintenance planning, and Influent Pump Replacement plan for future hydraulics. Ms. Knosby presented slides showing the installation of new RBC's shipped to MSD from West Virginia. She further reported on the Overall Evaluation Recommendations which include System upgrades performed in process order to facilitate operations and allow elevation of hydraulic profile; Phased improvements approach; Influent pumping, Fine screening, Grit removal, and Primary treatment improvements to be implemented in the near term prior to biological process upgrade, and Surge/equalization system, which limits peak flow to 65mgd, while treating 80mgd through the screening and grit facility. She presented slides showing an aerial of the French Broad River WRF, and recommended site layout. Ms. Knosby turned the presentation over to Brian Thorsvold.

Mr. Thorsvold stated the concept behind the layout is to build everything while the plant is operating. Once everything is built and operable, we will tie into the existing piping and bring it on-line; minimizing any downtime. He presented slides showing the existing screens; basket cleaner; grit removal process, and new fine screening (1/4 inch perforated plates) which enhances all downstream processes; helps the RBC's to be more efficient; reduces maintenance, and is required for future biological upgrades.

He presented slides showing all the grit and screenings that by-passed the grit removal process and settled in the RBC basin, and the RBC after removal of several feet of grit accumulation. Two (2) new grit removal processes were evaluated (Forced vs. Free Vortex technologies) and it was found that although the Eutek Headcell™ has a higher efficiency with fine grit, the Smith and Loveless PISTA® grit 360 with V-force™ is a better value and fits on the site. Mr. Pelly asked if this will extend the useful life of the RBC's. Mr. Hartye stated some of the RBC's have reached their useful life and have been replaced. To date 20 RBC's have been replaced and another 5-10 will be replaced which will get MSD through the planning period, so "the useful life" of the RBC's will not be an issue for the next 10-15 years. Mr. Thorsvold presented a slide showing the re-purposed Anaerobic Digesters for wet weather which hold 2.1mg of storage each. Mr. Hartye reported during a big microburst in Woodfin some years back, the plant had a hard time keeping ahead of the flow and had to open up a construction area that was taking place at the time to deal with that. The digesters were decommissioned several years back. Plant personnel will be rehabbing the outside of the digester buildings during the spring and summer. In addition to looking at overall evaluation recommendations, Mr. Thorsvold stated they looked at primary treatment improvements, and based on the size of the site and constraints, chemically enhanced high rate primary treatment is recommended. In December, 2014, they pilot tested new technology (Actiflo and CoMag) which are high rate chemical treatment processes, and explained how each process works.

Ms. Knosby reported overall evaluation recommendations include restoration of the RBC process; transitional upgrade strategy (end of useful life vs. regulatory requirement). Of the 152 RBC's, 40 were out of service, and to date, 20 have been replaced. Other recommendations include Long-term biological alternatives based on achieving ammonia reduction scenarios; Starting point – "Universe of Alternatives"; narrowed to three, (Activated sludge, MBBR, IFAS) all preceded by high rate primary treatment. Implementing the Facility Plan Update include Additional RBC replacements; On-going maintenance plan; Preliminary treatment improvements project – Fine screening, Grit removal, Surge Tank/Flow EQ; High-rate primary treatment improvements project, and Biological improvements – based on regulatory requirements and/or end of useful life.

Ms. Knosby reported the Overall Cost Summary includes Fine screening, Grit removal and Surge tank/flow equalization for a total cost of \$6.3 million; Primary treatment (high rate) \$9-10 million; Total near and mid-term improvements (0-10 years) \$15.6-\$16.6 million, and Biological-Activated Sludge/MBBR/IFAS (10-20 years) \$40-\$55 million. Mr. Hartye stated MSD needs to get a clearer vision of what the regulatory landscape is before long-term improvements begin. Mr. Watts asked where MSD stands on the issue of grease. Mr. Hartye stated MSD's Pretreatment staff handles all of the restaurants; requiring them to have interceptors under the sink or out in the parking lot. In addition, MSD has the "Can the Grease" education program to try to reduce grease coming to the plant. Mr. Watts asked if the existing grit removal system separates the grease. Mr. Weed said it does, but does not remove as much as it needs to; one cubic foot per day. He explained the high-rate primary clarifier system MSD is looking at will also attack the grease in a different way. Ms. Wisler asked how the long-term costs compare with previous long-term CIP plans. Mr. Hartye stated MSD's current CIP averages about \$20 million a year. The 10-year CIP is about \$200 million, which includes the \$17 million near and mid-term improvements which is 8.5% of the total CIP.

Mr. Hartye expressed his appreciation to Mary Knosby and Brian Thorsvold with HDR for their outstanding effort on this project.

9. Old Business

None

10. New Business:

Mr. Kelly asked what percentage of water treated is from infiltration/inflow as opposed to being piped. Mr. Hartye said the last time it was calculated it was about 40%. Mr. Kelly asked what is being done about this problem. Mr. Hartye stated some is reduced through rehabilitation as well as stormwater connections to MSD mains that must be disconnected. Mr. Kelly asked if this is discovered by accident during rehab. Mr. Hartye stated MSD uses flow monitoring first, then they go into a particular area and do smoke and dye testing to find the problem. In addition, many of the MSD mains are so old they have structural damage, which leads to leakage.

11. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:55 p.m.

Jackie W. Bryson, Secretary/Treasurer

MSD

Regular Board Meeting

Metropolitan Sewerage District
of Buncombe County, NC

AGENDA FOR 4/15/15

✓	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 March 18, 2015 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	2:30	
	06. Consolidated Motion Agenda		2:45	
	a. Consideration of Developer Constructed Sewer Systems: Myra Place Sewer Extension and the Aventine Sewer Extension .	Hartye		
	b. Cash Commitment/Investment Report – Month Ended February 28, 2015.	Powell		
	07. Facilities Plan Update	Hartye	3:00	
	08. Old Business:	VeHaun	3:20	
	09. New Business	VeHaun	3:25	
	10. Adjournment (Next Meeting (5/20/15))	VeHaun	3:30	
	STATUS REPORTS			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
MARCH 18, 2015**

1. Call to Order and Roll Call:

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2:00 p.m. Wednesday, March 18, 2015.

Chairman VeHaun presided with the following members present: Ashley, Bryson, Frost, Kelly, Pelly, Root, Stanley, Watts, and Wisler. Mr. Belcher and Ms. Manheimer were absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Dr. Joseph Martin with Woodfin Sanitary Water & Sewer District, and MSD Staff, Ed Bradford, Scott Powell, Peter Weed, Ken Stines, Mike Stamey, Jim Hemphill, Sam Sirls, 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 February 18, 2015 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the February 18, 2015 Board Meeting. With no changes, Mr. Stanley moved for approval of the Minutes as presented. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

Mr. VeHaun welcomed Dr. Joseph Martin. Mr. VeHaun called for public comment. Dr. Martin reported that recently Woodfin had simultaneous water line breaks, and because of a staff shortage, they called MSD for help. Within thirty minutes MSD crews were at the scene. He expressed his appreciation to Robert Denny, Marvin Felder, Jamie Fox, McKinley Hensley, Mitchell Metcalf, Roy Lytle and Keith Gass.

6. Report of General Manager:

Mr. Hartye called on Ed Bradford and Mike Stamey for a PowerPoint update on the collection system rehab projects for both in-house and contractor forces. Mr. Bradford presented a slide showing the Status Report of active Collection System Projects which is updated monthly. He presented a slide of the CIP Status Report, (entire program) which is posted on-line and is updated quarterly. Included are maps showing the following completed main line projects; Fairfax Avenue, Robinwood Avenue, East State Street @ West Street, and Mount Vernon Place Phase 2. He presented slides of active construction projects that include Broadview Avenue in Oakley; Crockett Road in East Asheville; Old US 70 at Pine Circle in Black Mountain; Shadowlawn Drive, Phase 1 in West Asheville; Merrimon Avenue/Mount Vernon area, and Merrimon Avenue @ Stratford Road in North Asheville. He reported that problems encountered with these projects included rock, crossing an intersection that will be accomplished with pipe bursting, and setting a new manhole. With regard to the Merrimon Avenue/Mount Vernon project, Mr. Bradford reported there are multiple MSD projects in this neighborhood (three contract projects and one in-house project). Both water and sewer is being rehabilitated (sewer complete). After completion of the water portion, the affected streets will be repaved through cost sharing with the City of Asheville in joint areas. Regarding the Merrimon Avenue @

Stratford Road project, Mr. Bradford reported the bore under Elkwood Avenue is now complete. He stated that exceedingly hard granite was present requiring the general contractor to employ a second subcontractor to complete the bore. As of this morning, less than 200 feet remain on this project. Mr. Bradford presented slides showing the following projects recently awarded to contractors to begin immediately; Terry Brothers Construction - Old Haywood Road @ Starnes Cove Road (1,491 LF), and Davis Grading - Wendover Road (2,975 LF). Mr. Bradford turned the presentation over to Mike Stamey for an update on MSD in-house construction projects.

Mr. Stamey presented a slide showing MSD In-house Construction Projects for FY 14-15. He reported there are twenty (20) projects completed since July, 2014; two (2) projects under construction (165 Old County Home Rd. and Dilling Avenue), and twelve (12) projects ready for construction. He presented a slide showing Construction Totals which outline all of the projects MSD in-house crews are involved in. This includes rehab projects; dig ups, taps, and manhole installation by date completed. Mr. Stamey highlighted several projects performed by in-house crews. The first was a manhole replacement project at 51 Culvern Street, as a result of a sink hole. While replacing the manhole, crews discovered a sanitary sewer service line that had some issues, which contributed to the sink hole and needed to be replaced, as well as a water service line that had issues, which was reported to the City. The second project was located on US Highway 70 at Franklin Road. TV inspection found the sewer line was broken, fractured and on the verge of collapse. In order to fix the problem and avoid traffic/safety issues, and the added cost of pavement repairs, they used the Infrastructure Repair Process (IRP). He presented slides showing how the process works. Mr. Pelly asked if the new pipe is same diameter. Mr. Stamey said it is slightly smaller. Ms. Wisler asked how long this process will last. Mr. Stamey said twenty years or more. Current projects include Old County Home Road sanitary sewer rehabilitation located in Asheville/Leicester, consisting of 1,100 LF of pipe, and Dilling Avenue located in Black Mountain, consisting of 692 LF. These projects are 40% and 60% complete respectively. Mr. Stamey presented several slides showing clearing and restoration of the Old County Home Road site; proposed sewer alignment and bore pit identification markings; saw cutting; locating equipment; HDPE being pulled into the ground, and site photos of the Dilling Avenue project. Mr. Stamey reported that upcoming in-house rehabilitation projects include Deanwood Circle located in Asheville, South of Biltmore, replacing 1,292 LF of sewer line, and Rathfarham Circle located in Arden, replacing 520 LF of 4" line with 8" pipe. Mr. Hartye stated not only do in-house crews deal with all emergency repairs, but are also a major part of the rehab program; completing 20,000 LF per year. Mr. Root asked why there are always five or six projects from 2009-2010 shown in the P&D Project Status Report that are waiting for final documents. Mr. Hartye stated these projects are part of Planning & Development and are developer extensions, not MSD construction projects. Mr. Clarke stated that during the 2008-2009 time period there were a lot of projects that simply stopped because of missing easements or no final inspection. At the request of Mr. Watts, Mr. Stamey presented a piece of HDPE pipe that was fused together so the Board could get a better idea of what it actually looks like.

Mr. Hartye continued with his report. He presented an article in the Asheville Citizen-Times regarding the project to upgrade the heat recovery and air treatment systems for the incinerator. A pre-construction meeting was held yesterday, and the notice to proceed, should be issued in the next few days.

Mr. Hartye reported that Nan Benning of Balsam Street in Black Mountain called to praise Wayne Rice for his great customer service and great attitude.

Mr. Hartye expressed his appreciation to Lisa Tolley and Kay Farlow for representing MSD and providing educational materials at the Build and Remodel Expo, which had a record attendance. The Home Show will be held at the Civic Center March 20-22nd. MSD will have a booth there as well.

Mr. Hartye reported the ROW Committee Meeting scheduled for March 25th is cancelled. The next meeting will be held April 22nd at 9 am. The next regular Board Meeting will be held on April 15th at 2 pm. The Personnel Committee will meet April 28th at 9 am, and the CIP Committee, will meet April 30th at 8:30 am.

7. Report of Committees:

Right of Way Committee

Mr. Kelly reported the Right of Way Committee met March 4, 2015 to consider Compensation Budgets; Condemnation on the Melody Circle GSR Project, and Condemnation Settlement on the Broadview Avenue GSR Project, all of which are a part of the Consolidated Motion Agenda.

8. Consolidated Motion Agenda:

a. Consideration of Compensation Budgets – Dellwood Avenue GSR; Fair Oaks Road @ Greene Road GSR; New Haw Creek Road @ Trinity Chapel Road, and Sand Hill Road @ Russell/Davenport Road.

Mr. Hartye reported the Dellwood Avenue GSR project is located in Swannanoa and consists of about 815 linear feet of 8”DIP to replace existing 6” VCP. The Fair Oaks Road @ Greene Road GSR project is located in Arden and consists of approximately 2,500 linear feet of 8” DIP to replace 6” and 8” VCP. The New Haw Creek Road @ Trinity Chapel Road GSR project is located off of Tunnel Road in Asheville and consists of approximately 783 linear feet of 8” DIP and a short run of about 55 feet of 24” to replace 8” and 21” VCP. The Sand Hill Road @ Russell/Davenport Road GSR project is located in the West Asheville area and consists of approximately 2,300 linear feet of 8”DIP to replace 8” VCP, PVC, and DIP. The Committee recommended approval of the aforementioned Compensation Budgets.

b. Consideration of Condemnation – Melody Circle GSR Project:

Mr. Hartye reported contact was established with the property owner on 11/5/2014. On 12/1/14, the owner indicated she was engaging Eric Contre as her attorney and he would be communicating with MSD. MSD’s agent received voicemails from Mr. Contre on 12-15 & 12/17. Mr. Clarke, MSD General Counsel, reached out to Mr. Contre on 12/17 to get a better understanding of his client’s concerns. Mr. Contre told Mr. Clarke he would send a letter outlining those concerns. Despite follow-ups by Mr. Clarke, Mr. Contre did not provide a letter or engage in any discussion at that time. The owner discussed her concerns with MSD and stated she is concerned about the impact the project will have on her ability to effectively care for her grandson who is terminally ill. Her major concerns are dust and provisions for 24/7 ingress/egress during construction for emergency medical vehicles and personnel. MSD personnel prepared special provisions requiring the contractor to address all concerns voiced by the owner to date, as well as offer compensation in the amount of \$1,525. MSD planned to discuss all of these items with the owner until it received a letter on 2/13/2015. MSD will continue to attempt to work with owner through her attorney. However, given this letter, a condemnation appears likely. Therefore, Staff recommends authority to obtain appraisal and proceed with condemnation.

c. Consideration of Condemnation Settlement – Broadview Avenue GSR Project:

Mr. Hartye reported the ROW Committee considered condemnation settlement for the Broadview Avenue GSR project which consists of 3 lots. Two of the lots are combined and improved with a single-family residence. However, existing 8-inch

VCP sewer runs diagonally across these lots, and the house was constructed five feet away from the line. The proposed 8-inch DIP rehab alignment parallels the existing sewer on the opposite side from the house. The third lot is vacant. Mr. Hartye further reported MSD could not reach an agreement with the owner and filed a condemnation. MSD's appraisal of damages is \$18,000 due to the effect of the new sewer on the buildable area. The new line bisects the vacant lot, rendering it unbuildable. The owner's appraisal of damages is \$26,550. He also seeks reimbursement for cost of appraisal at \$1,900 plus his attorney's fees of \$3,000 for a total settlement request of \$31,450. District Counsel estimates cost to MSD of approximately \$15,000 to take the case to trial. MSD would then pay the just compensation as determined by the jury, plus 6% interest on those monies since the date of taking, August 6, 2014. If the jury agreed with the owner's value of \$26,550, adding interest plus fees, MSD is exposed to about \$35,200 in costs, or more. The Committee recommends a Settlement offer of up to \$31,450.

d. Consideration of Developer Constructed Sewer Systems: Quail Hollow Phase II Sewer Extension; STF Precision Sewer Extension Project, and Hudson Hills Habitat for Humanity Sewer Extension Project.

Mr. Hartye reported the Quail Hollow-Phase II Sewer Extension project is located inside the District boundary off Weston Road in the City of Asheville. The project included extending approximately 1,225 linear feet of 8-inch public gravity sewer to serve the twelve (12) unit residential development. Staff recommends acceptance of the developer constructed sewer system. All MSD requirements have been met.

The STF Precision Sewer Extension Project is located inside the District boundary off Old Shoals Road in Buncombe County. The project included extending approximately 215 linear feet of 8-inch public gravity sewer to serve the commercial development. Staff recommends acceptance of the developer constructed sewer system. All MSD requirements have been met.

The Hudson Hills Habitat for Humanity Sewer Extension Project is located inside the District boundary off Johnston Boulevard in the City of Asheville. The project included extension of approximately 472 linear feet of 8-inch public gravity sewer to serve the twenty-five (25) unit residential development. Since this project is classified as affordable housing, it qualifies for MSD's Cost Recovery Program. Staff recommends acceptance of the developer constructed sewer system and authorization of payment of \$33,714.00 for Affordable Housing Cost Recovery. All MSD requirements have been met.

e. Consideration of Auditing Services Contract for FY2015:

Mr. Powell reported in 2013, Cherry Bekaert gave the District a three-year commitment to maintain cost, at a cost of \$46,500. FY 2015 is year three of the aforementioned commitment period. Cherry Bekaert continues to provide excellent service with the focus of reducing fees and pass on any additional savings to the District. Staff recommends approval of the FY2015 audit contract.

f. Consideration of Issuance of RFP for Bond Counsel:

Mr. Powell reported the District has used the firm of Sidley Austin LLP of New York, and its predecessor, Brown Wood, for all of its bond issues. Lead counsel for recent issues has been Neil Kaplan. At the end of January, the District was informed Mr. Kaplan has left the firm. Due to Mr. Kaplan's departure from Sidley Austin, staff sees this as an opportunity to seek proposals from qualified firms having a strong market presence in North Carolina. Staff proposes a selection committee be comprised of the General Manager, Finance Director, General Counsel, and a Member of the Finance Committee in the evaluation of the RFP's. The evaluation of

the RFP's will be based on the attorney's relevant experience, a working knowledge of the District, and work performed in North Carolina; specifically issuers of utility revenue bonds. Staff recommends issuance of an RFP for Bond Counsel. Mr. Clarke reported there are a number of bond lawyers in North Carolina that are very competent and talented. All of the Bond Counsel listed, with the exception of Sidney Austin and Hawkins Delafield & Wood LLP, has a presence or at least an office in North Carolina and feels this a good opportunity for MSD to seek proposals from qualified firms.

g. Cash Commitment/Investment Report – Month Ended January 31, 2015:

Mr. Powell reported Page 58 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 Investment Portfolio is in accordance to the District's investment polity, as well as State Statute 159.30. Page 59 is the MSD Investment Manager report as of the month of January. The weighted average maturity of the investment portfolio is 260 days. The yield to maturity is .45% and exceeds MSD bench marks of the 6-month T-Bill and NCCMT cash portfolio. Page 60 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 three (3) development contributions in the current year in addition to the conservative budgeting approach of these fees. Page 61 is the MSD 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, YTD expenditures can vary from year to year. Based on the current outstanding capital projects, YTD capital project expenditures are considered reasonable. Page 62 is the MSD Variable Debt Service report. The 2008A Series bonds are performing better than budgeted expectations. As of the end of February, the 2008A bond series has saved District rate payers approximately \$3.8 million dollars in debt service since April of 2008. Mr. Stanley asked about the statement at the bottom of the page that says "MSD would pay \$5,022,000 to terminate the existing Bank of American Swap Agreement." Mr. Powell stated that MSD has \$32 million dollars in variable rate debt, and the interest rate swap fixes the interest rate on the debt at 3.4175%. Because the valuation of that swap is in the negative, (due to the market interest rates) MSD would have to pay in excess of \$5 million dollars to terminate the existing Swap Agreement.

With no discussion, Ms. Frost moved for approval of the Consolidated Motion Agenda. Mr. Watts seconded the motion. Roll call vote was as follows: 10 Ayes; 0 Nays.

9. Old Business:

None

10. New Business:

None

11. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:48 p.m.

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO: MSD Board
FROM: Thomas E. Hartye, P.E., General Manager
DATE: April 10, 2015
SUBJECT: Report from the General Manager

- Fiscal Year 2016 Budget

Over the next month the budget season will hit the Committee stage with the Personnel Committee, the CIP Committee, and the Finance Committee meeting to consider FY 16 Budget recommendations to the Board. Please see the dates listed below. The Preliminary Budget will come before the MSD Board at the May 20th Regular Meeting with the Final Budget being brought before the Board on June 10th when a Public Hearing will be held.

- Treatment Plant Facilities Plan Update

HDR Consulting will give a presentation to the Board regarding the update to the Treatment Plant Facilities Plan. This planning effort involved assessing the condition and performance of existing treatment facilities and looked forward 20 years to develop a plan to both maintain the plants excellent performance and to meet future regulation changes. HDR considered several emerging technologies to both enhance existing treatment and to meet future challenges. This is primarily a technical report in which estimated costs were provided for planning purposes. MSD staff is incorporating the near and mid term recommendations within the 10 year Capital Improvement Plan which will be presented to the Board as a part of the FY 2016 Budget Process.

- Board/Committee Meetings/Events

The next ROW Committee Meeting is scheduled for April 22nd at 9am. The Personnel Committee will meet April 28th at 9am. The CIP Committee will meet April 30th at 8:30 am. The Finance Committee will meet May 7th at 9am. The next Regular Board Meeting will be held on May 20th at 2 pm.

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: April 15, 2015

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

PREPARED BY: Kevin Johnson

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Myra Place Sewer Extension Project, MSD Project No. 2009088.

BACKGROUND: This project is located inside the District boundary off East Starnes Cove Road in the City of Asheville. The developer of the project is John S. Ray, Jr.

The project included extending approximately 85 linear feet of 8-inch public gravity sewer to serve the twelve (12) unit residential development.

A wastewater allocation was issued in the amount of 3,000 GPD for the project. The estimated cost of the sewer construction is \$45,000.00.

All MSD requirements have been met.

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



Myra Place MSD Project #2009088

Author: KJ

1 in = 50 ft

Date: 4/6/2015

The Metropolitan Sewerage District of Buncombe County, NC has prepared these maps based on best available information for use in assisting District maintenance work, service area analysis, and planning. The District does not warrant the accuracy of any of the information shown. Field verification is advised for all information shown on the maps or included with manhole data. No guarantee is given as to the accuracy or currency of any of the data. Therefore, in no event shall the District be liable for any special, indirect, or consequential damages or any damages whatsoever resulting from loss of use, data, or profits, whether in an action of contract, negligence, or other action, arising out of or in connection with the use of the information herein provided. Grid shown is North Carolina State Plane Coordinate System NAD 1983 (North American Datum 1983).

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: April 15, 2015

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

PREPARED BY: Kevin Johnson

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

SUBJECT: Acceptance of Developer Constructed Sewer System for the Aventine Sewer Extension Project, MSD Project No. 2011015.

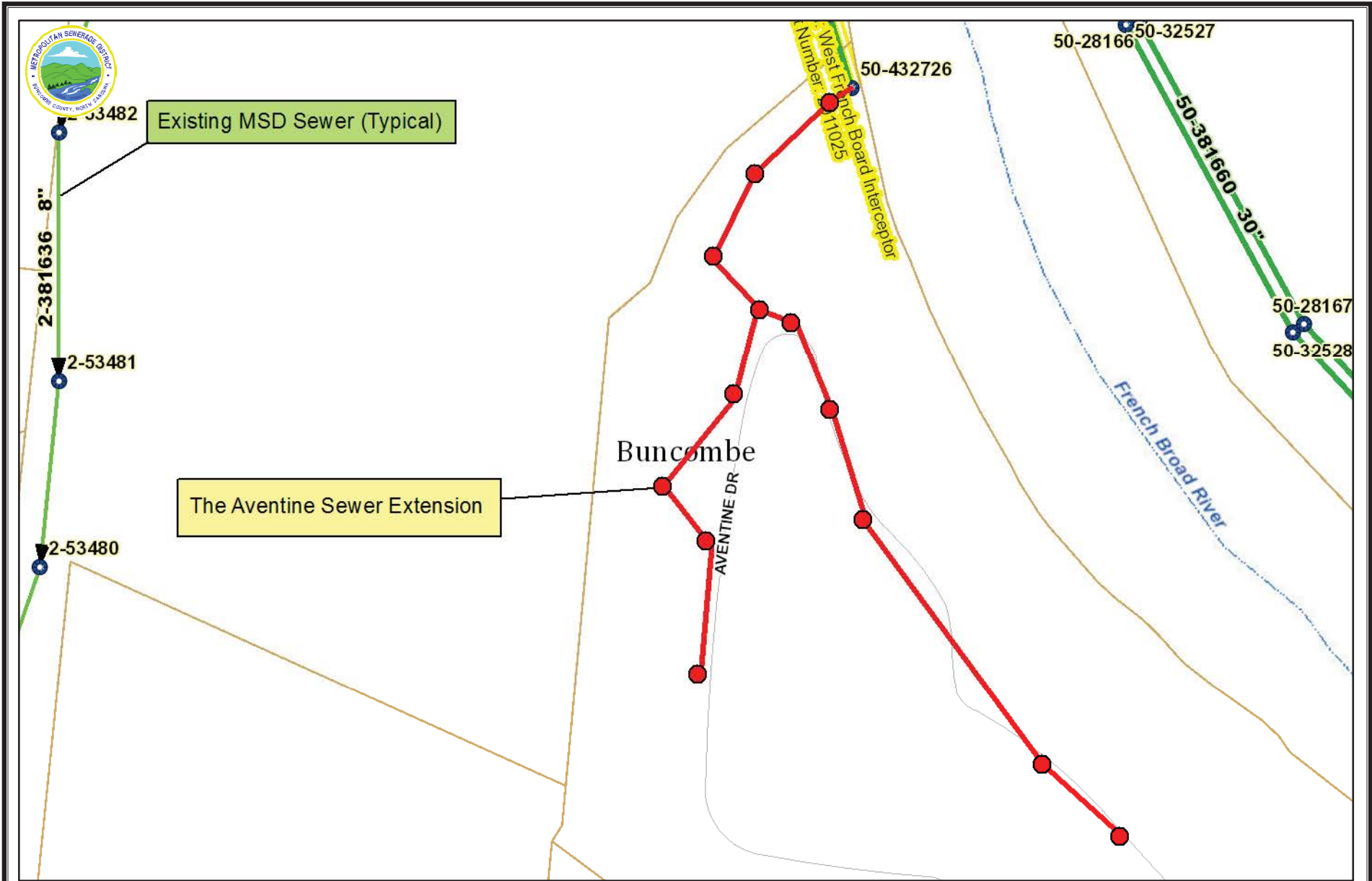
BACKGROUND: This project is located inside the District boundary near the intersection of Long Shoals Road and Clayton Road in Buncombe County. The developer of the project is Ryan Foster of Aventine Asheville, LLC.

The project included extending approximately 2,540 linear feet of 8-inch public gravity sewer to serve the 312 unit apartment complex. This extension ties into the West French Broad Master Plan Interceptor, which was completed in 2014.

A wastewater allocation was issued in the amount of 73,000 GPD for the project. The estimated cost of the sewer construction is \$164,620.00.

All MSD requirements have been met.

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



The Aventine MSD Project #2011015

Author: KJ

1 in = 200 ft

Date: 4/6/2015

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Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: April 15, 2015

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 February 28, 2015

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 February 28, 2015 were \$52,565,814. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.394%. 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 February 28, 2015 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of February 28, 2015 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$20,896,661.

Total Cash & Investments as of 02/28/2015		52,565,814
Less:		
Budgeted Commitments (Required to pay remaining FY14 budgeted expenditures from unrestricted cash)		
Construction Funds	(12,362,901)	
Operations & Maintenance Fund	<u>(6,175,917)</u>	
		(18,538,818)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(4,516)	
Remaining Principal & Interest Due	<u>(7,963,740)</u>	
		(7,968,256)
District Reserve Funds		
Fleet Replacement	(441,559)	
WWTP Replacement	(482,541)	
Maintenance Reserve	<u>(913,251)</u>	
		(1,837,351)
District Insurance Funds		
General Liability	(420,538)	
Worker's Compensation	(303,561)	
Post-Retirement Benefit	(1,403,398)	
Self-Funded Employee Medical	<u>(1,197,231)</u>	
		<u>(3,324,728)</u>
Designated for Capital Outlay		<u><u>20,896,661</u></u>

Staff Recommendation

None. Information Only.

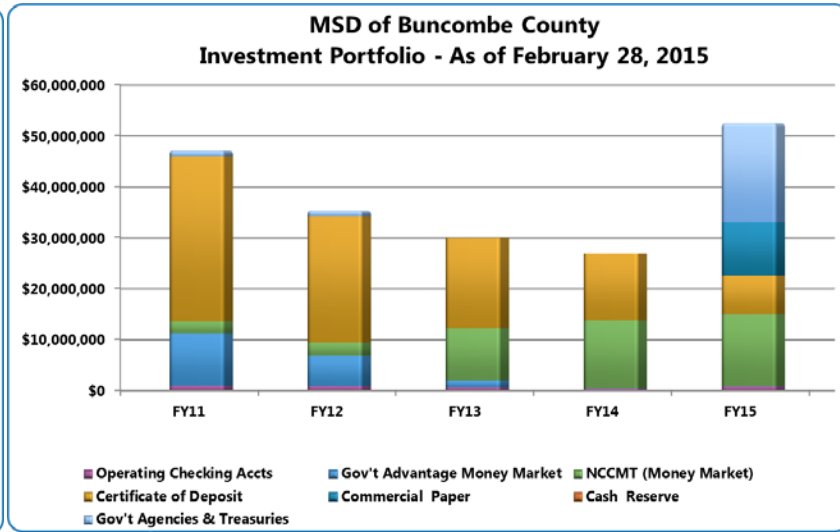
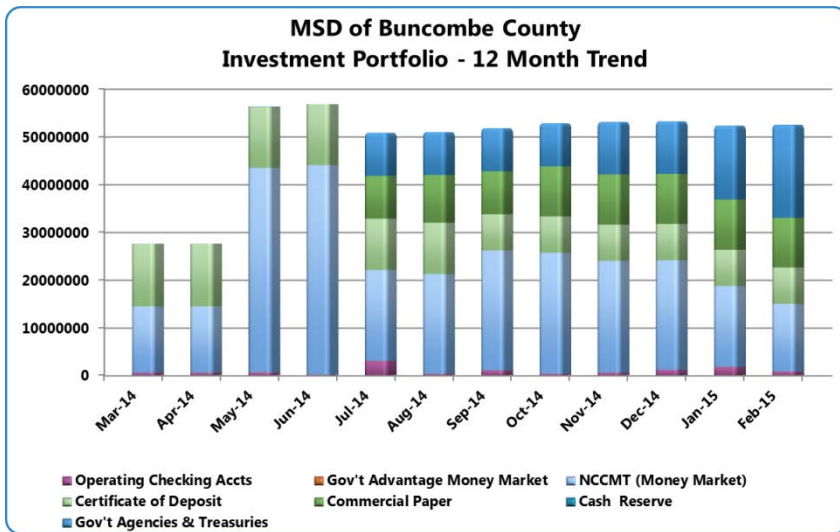
Action Taken

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	Cash Reserve	Gov't Agencies & Treasuries	Total
Held with Bond Trustee	\$ -	\$ -	\$ 4,516	\$ -	\$ -	\$ -	\$ -	\$ 4,516
Held by MSD	860,020	46,662	14,152,237	7,591,468	10,411,746	-	19,499,165	52,561,298
	\$ 860,020	\$ 46,662	\$ 14,156,753	\$ 7,591,468	\$ 10,411,746	\$ -	\$ 19,499,165	\$ 52,565,814

<u>Investment Policy Asset Allocation</u>	<u>Maximum Percent</u>	<u>Actual Percent</u>	
U.S. Government Treasuries, Agencies and Instrumentalities	100%	37.09%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	14.44%	The District 's YTM of .46% is exceeding the YTM benchmarks of the
Commercial Paper	20%	19.81%	
North Carolina Capital Management Trust	100%	26.93%	6 month T-Bill and NCCMT Cash Portfolio.
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		1.64%	
Gov't Advantage Money Market		0.09%	

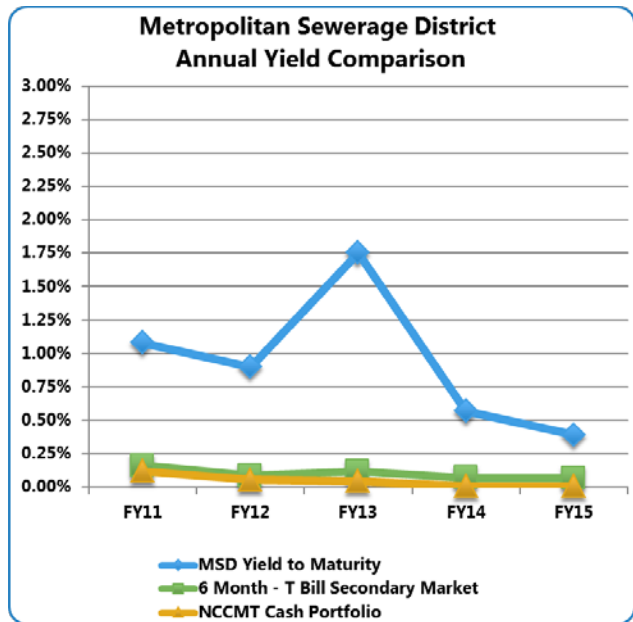
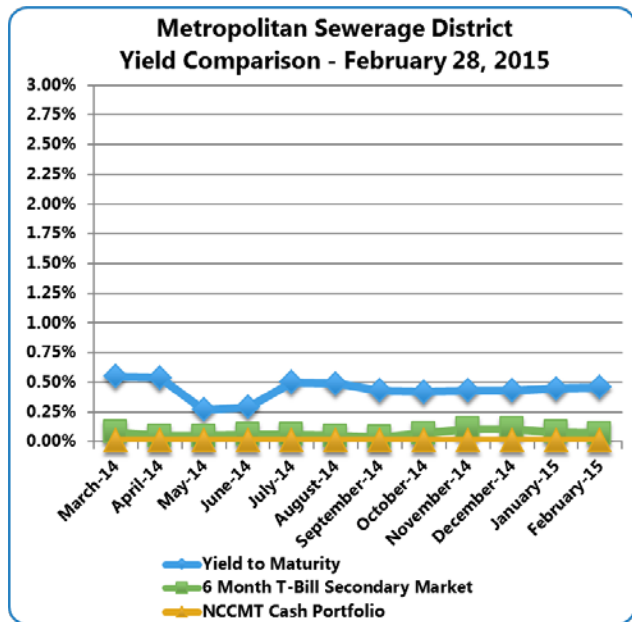


**METROPOLITAN SEWERAGE DISTRICT
INVESTMENT MANAGERS' REPORT
At February 28, 2015**

Summary of Asset Transactions			
	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 48,233,583	\$ 48,233,583	\$ 373,002
Capital Contributed (Withdrawn)	1,151,689	1,151,689	
Realized Income	3,313	3,313	(2,865)
Unrealized/Accrued Income		-	13,338
Ending Balance	\$ 49,388,585	\$ 49,388,585	\$ 383,475

Value and Income by Maturity		
	Original Cost	Income
Cash Equivalents <91 Days	\$ 18,801,661	\$ 5,248
Securities/CD's 91 to 365 Days	18,587,044	5,188
Securities/CD's > 1 Year	11,999,880	3,349
	\$ 49,388,585	\$ 13,786

Month End Portfolio Information	
Weighted Average Maturity	277
Yield to Maturity	0.46%
6 Month T-Bill Secondary Market	0.07%
NCCMT Cash Portfolio	0.01%



Board Meeting:

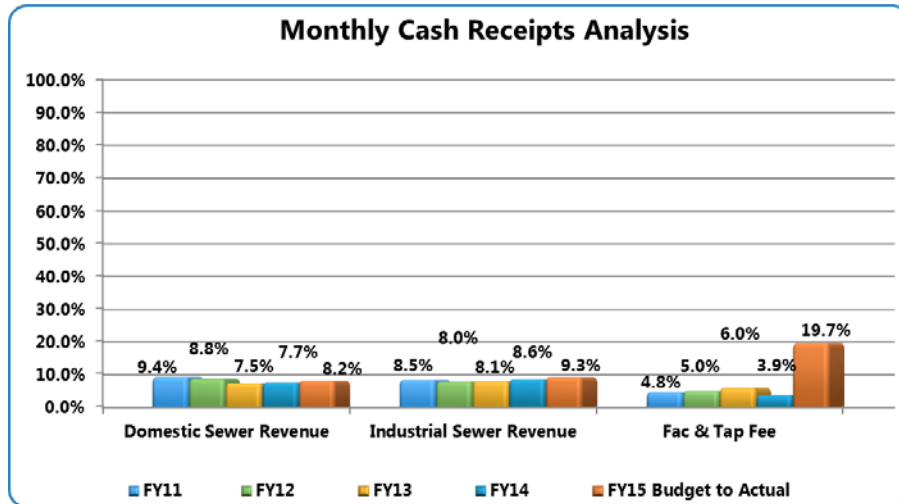
April 15, 2015

Subject:

Cash Commitment/Investment Report-Month Ended February 28, 2015

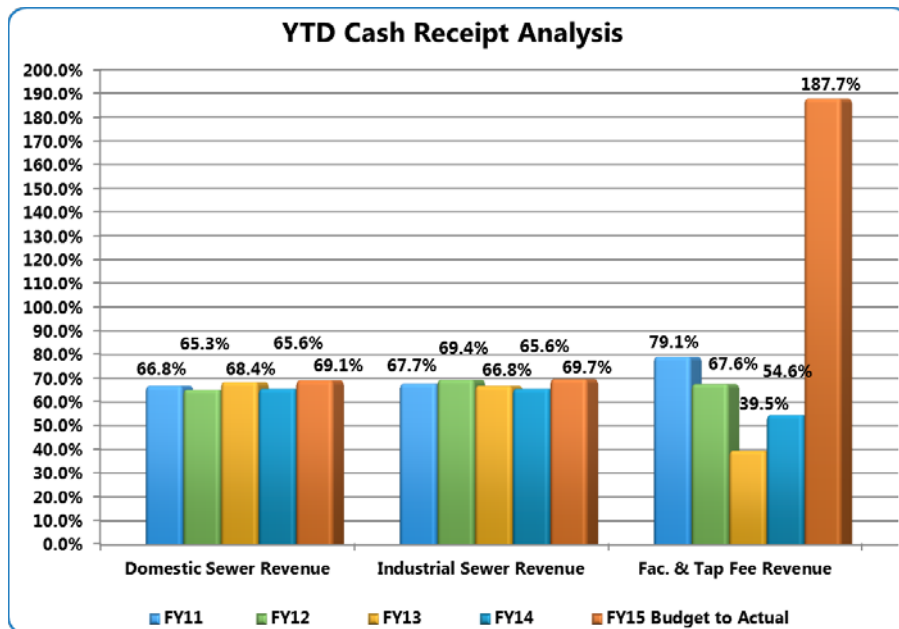
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**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF CASH RECEIPTS
As of February 28, 2015**



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:

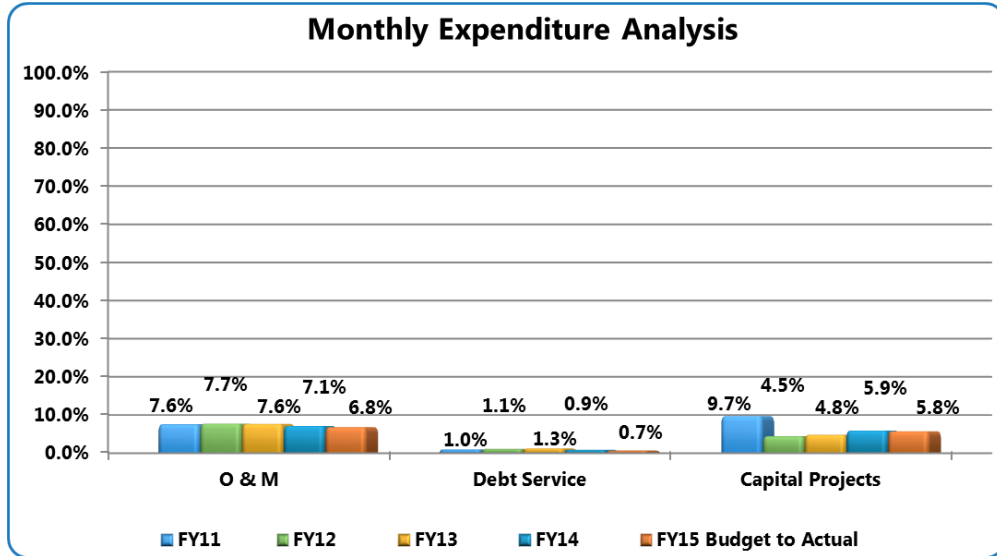
April 15, 2015

Subject:

Cash Commitment/Investment Report-Month Ended February 28, 2015

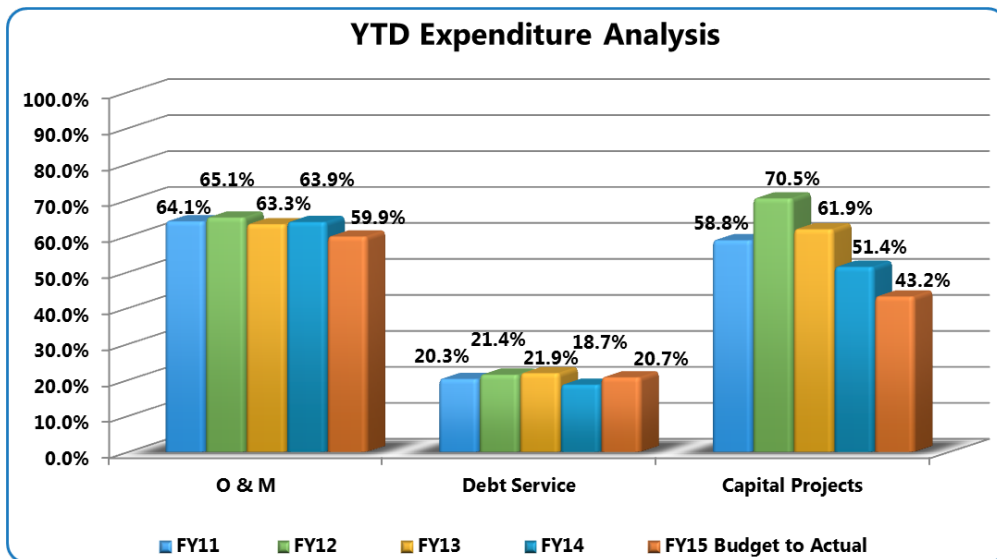
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**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF EXPENDITURES
As of February 28, 2015**



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:

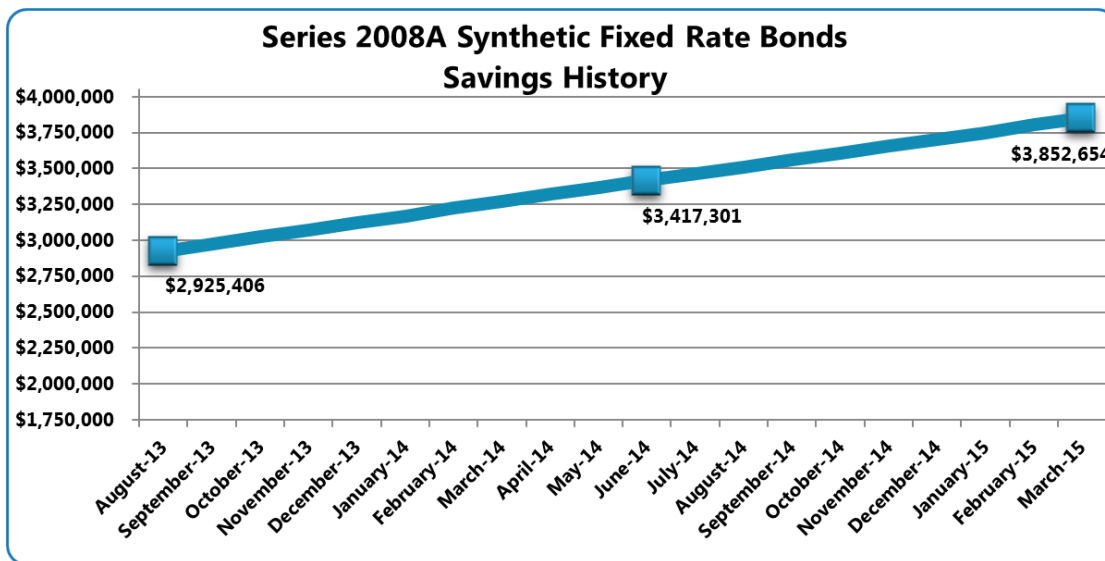
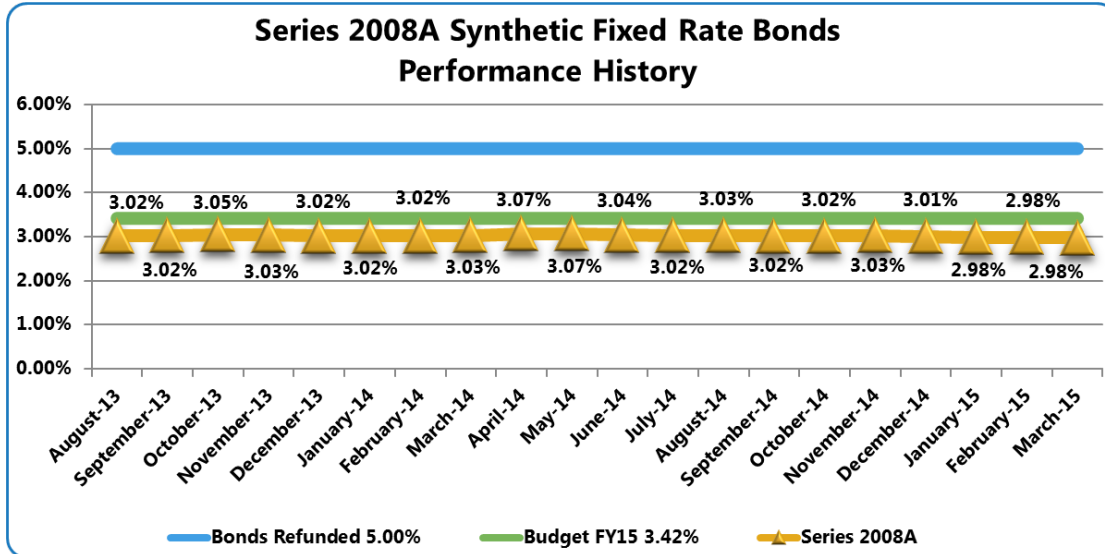
April 15, 2015

Subject:

Cash Commitment/Investment Report-Month Ended February 28, 2015

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**METROPOLITAN SEWERAGE DISTRICT
VARIABLE DEBT SERVICE REPORT
As of March 31, 2015**



Series 2008A:

- Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$3,852,654 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 \$4,730,000 over the life of the bonds.
- MSD would pay \$5,353,000 to terminate the existing Bank of America Swap Agreement.

Metropolitan Sewerage District of Buncombe County

BOARD ACTION ITEM

BOARD MEETING DATE: April 15, 2015

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

REVIEWED BY: Tom Hartye, P.E. - General Manager
Forrest Westall, P.E. - Engineer of Record

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Hunter Carson, P.E. - Project Manager

SUBJECT: Facilities Plan Update - Presentation to MSD Board, MSD Project Number 2013010

BACKGROUND: In 2007, CDM Smith prepared a comprehensive Facilities Plan which evaluated the operation and performance of each treatment process at the French Broad River Water Reclamation Facility (WRF). This plan provided short, medium, and long-term recommendations for each specific process and facility, many of which have been completed since that time.

In March 2014, MSD selected HDR Engineering to update this important plan. The purpose of the Facility Plan Update is to review and update findings of the 2007 plan and to provide recommendations for treatment improvements at the WRF over a 20 year planning horizon.

This update primarily expanded on several of the original plan's longer term recommendations. It focused specifically on improvements to the WRF headworks (i.e. bar screens, influent pumping station, and the problematic grit & grease removal system), including storage for short-term peak flows. It also investigated in detail the installation of a primary clarification process; and has evaluated alternatives for the biological treatment process.

After extensive research of various options, the plan recommends adding a new grit removal, fine screening system, storage for peak flows (using existing decommissioned digesters), and chemically-enhanced primary clarification. These near-term and mid-term improvements have been incorporated into the Districts proposed 10-Year CIP. They will help to produce a better quality effluent, and will also extend the useful life of downstream equipment.

Another key aspect of the Facility Plan Update was to gain a solid understanding of regulatory issues that may impact future treatment requirements, and identify long-term biological treatment alternatives to comply with anticipated future regulation changes. The biological treatment evaluation started by examining the WRF's rotating biological contactors (RBCs), which were installed in 1988. They have performed well and continue to meet permitted effluent limits. MSD has recently taken significant measures to extend their useful life - including replacement of over 20 units, with more replacements scheduled for the upcoming fiscal year. The plan has evaluated various alternatives for biological treatment at the WRF; and provides options for phasing in viable long-term technologies to comply with future ammonia and potential nutrient limits in the future. The Facility Plan update also included an ammonia reduction evaluation required as a part of the upcoming discharge permit renewal.

HDR began work on the Facility Plan Update in early April 2014. Regular meetings were held with MSD staff throughout the process, and helped to guide the planning process and identify details to be included in the document.

Cost estimates for each of the selected alternatives were provided with total capital cost, as well as net present worth of operational and maintenance costs over the 20-year planning period. This document is being used as guidance to develop MSD's Ten Year Capital Improvement Plan for plant improvements.

HDR staff will present this important plan to the MSD Board, and will be available to discuss any questions or concerns.

FISCAL IMPACT: The near-term and mid-term projects and their fiscal impacts (approx. \$17 Million) have been incorporated into the new proposed ten-year CIP.

STAFF RECOMMENDATION: To accept the Facility Plan Update prepared by HDR.



**Facilities Plan Update
Project No. 2013010**

NOT TO SCALE



METROPOLITAN SEWERAGE DISTRICT
of
BUNCOMBE COUNTY, NORTH CAROLINA

Budget Map

STATUS REPORTS

**MSD SYSTEM SERVICES IN-HOUSE CONSTRUCTION
FY 14-15 PIPELINE REHABILITATION PROJECTS**

PROJECT NAME	LOCATION	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	NOTES
Westwood Road Phase 2	N. asheville	400	6/25/14 - 7/4/14	215883	667	7/3/2014	400	complete
Penelope Street	Black Mountain	400	7/14/14 - 8/15/14	210161	667	7/24/2014	415	complete
Shiloh Road	Asheville	350	7/15/14 - 7/31/14	210233	631	8/1/2014	354	complete
995 West Chapel Rd	Asheville	100	8/1/14 - 8/15/14	211782	631	8/7/2014	60	complete
Emory Road	W. Asheville	300	7/25/14 - 8/15/14	210231	667	8/11/2014	290	complete
Haywood Street P. S. and FM	Asheville	225	8/18/14 - 9/5/14	216297	631	8/22/2014	305	complete
Springside Drive	W. Asheville	522	8/16/14 - 9/10/14	205995	667	9/15/2014	631	complete
Woodbury Rd -91 Carter Cove	N. Asheville	239	9/11/14 - 9/29/14	217394	667	9/29/2014	220	complete
Terre Drive / Dunwood Road	N. Asheville	308	9/30/14 - 10/31/14	218077	667	10/20/2014	405	complete
Hickory Court	Arden/Royal Pines	1633	9/8/14 - 10/17/14	39866	631	10/24/2014	1631	complete
190 Tunnel Rd Sewer Replacement	Asheville	255	11/3/14 - 11/5/14	218034	667	10/27/2014	264	complete
N. Anne St.	Asheville	550	10/23/14 - 11/23/14	44181	631	11/14/2014	598	complete
809 Patton Avenue	Asheville	112	11/24/14 - 11/25/14	219718	647	11/25/2014	112	complete
Biltmore Forest County Club Sewer Replacements Phase 1	Biltmore Forest	1000	11/3/14 - 12/15/14	218277	647	12/10/2014	1080	complete
6 Hilderbrand Street	Asheville	400	12/11/14 - 12/31/14	46649	647	12/31/2014	368	complete
Sunset Drive @ Bee Tree Road	Swannanoa	1055	11/17/14 -1/7/15	219327	631	12/31/2014	1086	complete
E Skyview Circle PSR	Woodfin	400	1/12/15 - 1/21/15	217301	631	1/21/2015	361	complete
Rumbough Place	W. Asheville	710	1/19/14 - 2/16/14	201105	631	2/4/2015	717	complete
Campus Drive (UNCA)	Asheville	335	1/5/15 - 2/5/15	210230	647	2/5/2015	355	complete
1091 Patton Avenue (@ Tastee Freez)	Asheville	80	2/3/15 -2/7/15	221418	631	2/9/2015	88	complete
Dilling Avenue	Black Mountain	692	2/6/15 - 3/9/15	221464	631	3/12/2015	684	complete
224 Beverly Road	Asheville	55	3/20/15 - 3/24/15	217554	614	3/24/2015	55	complete
165 Old County Home Road	Asheville/Leicester	1,100	2/6/15 - 4/1/15	33885	647	3/30/2015	1140	complete
Vance Avenue (Dilling Ave Ph. 2)	Black Mountain	960	3/10/15 - 4/17/15	222586	631			Construction is 75% complete
Pond Lane Emergency Sanitary Sewer Rehabilitation	N. Asheville (Beaverdam)	400	3/27/15 - 4/15/15	222687	647			Construction is 15% complete
Tacoma Circle	Asheville	300	4/20/15 - 5/20/15	221217	631			ready for construction
Biltmore Forest County Club Sewer Replacements Phase 2	Biltmore Forest	300	4/16/15 - 4/30/15	TBA	647			ready for construction
27 Lane Avenue	West Asheville	400	5/1/15 - 5/8/15	221454	647			ready for construction
Deanwood Circle	Asheville	1292	5/21/15 - 6/30/15	202207	631			ready for construction - Project Number 2012030, CIP Transmittal 204
Rathfarnham Circle	Arden	520	TBA	212218	TBA			ready for construction
Sareva Place	N. Asheville	957	TBA	20330	TBA			ready for construction
Carjen Avenue	Asheville	825	TBA	20331	TBA			ready for construction
Winnfred Street	W. Asheville	420	TBA	208234	TBA			ready for construction



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2014 to 2/28/2015

	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 2014	46	15	193	908	26	18	3,800	0	235	415	6	400	1050
August 2014	44	7	219	536	29	11	200	0	143	674	7	330	1147
September 2014	38	9	154	650	44	23	1,345	0	16	856	6	0	872
October 2014	33	8	219	644	30	23	420	0	204	405	20	2,075	2684
November 2014	19	8	51	606	28	18	0	0	234	598	3	0	832
December 2014	40	6	118	715	41	18	1,383	0	654	1592	20	942	3188
January 2015	32	8	78	837	25	21	575	73	420	201	2	160	854
February 2015	31	3	32	611	26	21	100	112	378	355	9	805	1650
Grand Totals	283	64	1,062	5,507	249	153	7,823	185	2284	5096	73	4,712	12277

* Used to calculate Total Rehab Footage



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2014 to February 28, 2015

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
2014							
July	66,005	2,224	3,370	69,315	24,012	650	27,593
August	62,930	1,101	6,357	69,087	32,258	3,150	16,074
September	42,106	2,136	3,299	45,352	24,495	3,650	24,813
October	90,846	1,502	9,854	100,694	35,690	0	3,549
November	61,000	1,208	4,631	65,631	16,007	10	12,239
December	53,482	2,361	7,593	60,910	25,855	400	17,845
2015							
January	71,241	3,838	4,592	75,793	29,481	300	3,732
February	33,153	2,175	2,599	35,752	20,378	300	8,218
Grand Total:	480,763	16,545	42,295	522,534	208,175	8,460	114,063
Avg Per Month:	60,095	2,068	5,287	65,317	26,022	1,058	14,258



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
DAY 1ST RESPONDER				
	July, 2014	108	33	42
	August, 2014	90	28	34
	September, 2014	98	36	40
	October, 2014	96	31	38
	November, 2014	92	30	39
	December, 2014	103	31	40
	January, 2015	102	36	45
	February, 2015	85	48	49
		774	34	41
NIGHT 1ST RESPONDER				
	July, 2014	29	20	18
	August, 2014	28	24	24
	September, 2014	37	22	20
	October, 2014	29	22	23
	November, 2014	10	90	15
	December, 2014	25	49	29
	January, 2015	42	40	24
	February, 2015	23	28	33
		223	32	23
ON-CALL CREW *				
	July, 2014	37	39	48
	August, 2014	33	55	40
	September, 2014	33	47	70
	October, 2014	23	49	49
	November, 2014	47	54	33
	December, 2014	59	55	40
	January, 2015	81	56	48
	February, 2015	47	62	32
		360	53	44
Grand Totals:		1,357	39	39

* On-Call Crew Hours: 10:30pm-7:30am Monday-Friday, Weekends, and Holidays

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

April 8, 2015

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
BROADVIEW AVENUE	Oakley	Buckeye Bridge	7/16/2014	9/8/2014	5/29/2015	\$1,111,015.90	60%	Working on Broadview Avenue. Paving is imminent.
CLAYTON ROAD PUMP STATION	Skyland	J.S. Haren Company	11/19/2014	2/23/2015	6/23/2015	\$192,500.00	0%	Materials are being delivered to site. Work is expected to begin next week.
CROCKETT AVENUE PRP	Asheville	Terry Brothers	8/20/2014	11/17/2014	4/30/2015	\$676,842.00	80%	Project is progressing well.
FAIRFAX AVENUE PRP	W. Asheville	Terry Brothers	8/20/2014	10/22/2014	4/30/2015	\$558,802.00	87%	Mainline complete. Some service work remains as well as paving.
MERRIMON AVENUE @ STRATFORD ROAD	Asheville	Terry Brothers	9/18/2013	12/16/2013	5/30/2015	\$885,849.00	90%	Final mainline construction in progress.
MOUNT VERNON PLACE, PHASE 2	Asheville	Terry Brothers	6/11/2014	7/14/2014	4/15/2015	\$542,675.00	90%	Mainline construction is complete. Paving will be completed after COA Water Project is completed, expected Fall 2015.
OLD HAYWOOD ROAD @ STARNES COVE ROAD	Asheville	Terry Brothers	10/15/2014	2/16/2015	5/17/2015	\$341,342.00	0%	No work has begun yet.
OLD U.S. 70 @ PINE CIRCLE	Swannanoa	Thomas Construction Company	11/19/2014	1/14/2015	5/14/2015	\$545,153.31	50%	Construction is progressing well.
ROBINWOOD AVENUE	Asheville	Davis Grading, Inc.	9/17/2014	11/3/2014	4/15/2015	\$457,838.60	98%	Binder has been placed and awaiting final paving.
SHADOWLAWN DRIVE PHASE I	Asheville	Buchanan & Sons	12/17/2014	1/26/2015	6/25/2015	\$923,946.00	17%	Contractor is pipebursting the 12" HDPE at this time.
WENDOVER ROAD	Asheville	Davis Grading, Inc.	1/21/2015	3/2/2015	5/31/2015	\$576,269.50	10%	All 18" line is complete, as well as the 8" creek crossing. Crew is working on Sand Hill Road.
WRF - INCINERATOR SYSTEM REHABILITATION AND EMISSIONS UPGRADES	Woodfin	Haren Construction Company	2/18/2015	3/25/2015	2/23/2016	\$4,624,000.00	0%	Submittal review in process.

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

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Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
Black Mtn. Annex- Blue Ridge Rd.	1992171	Black Mtn.	24	2,560	8/19/2010	Complete- waiting on conveyance
Black Mtn. Annex- McCoy Cove	1992174	Black Mtn.	24	2,067	8/19/2010	Complete- waiting on conveyance
Black Mtn. Annex- Avena Rd.	1999026	Black Mtn.	24	4,300	8/19/2010	Complete- waiting on conveyance
North Point Baptist Church	2008105	Weaverville	Comm.	723	5/20/2009	Complete - Waiting on final documents
AVL Technologies	2010018	Woodfin	Comm.	133	5/21/2010	Complete-Waiting on final documents
UNC-A New Residence Hall	2011047	Asheville	304	404	8/29/2011	Complete-Waiting on final documents
Cottonwood Townhomes	2009110	Black Mtn.	8	580	10/20/2009	Complete-Waiting on final documents
Ramble at Parkway	2013100	Biltmore Forest	TBD	335	7/26/2013	Complete-Waiting on final documents
Carolina Truck and Body (Cooper)	2012075	Asheville	Comm.	298	10/30/2012	Complete-Waiting on final documents
Sardis Road (COA) Annexation	2009037	Asheville	N/A	6,981	4/2/2012	Complete-Waiting on revised ROW items
Ardmion Park	2011107	Asheville	5	208	4/16/2013	Complete-Waiting on final documents
Central Ave	2012065	Asheville	6	305	9/26/2013	Complete - Waiting on final documents
Westover Relocation	2013132	Asheville	1	87	11/20/2013	Complete - Waiting on final documents
Brookgreen Phase 1D-Kenai Dr.	2013076	Woodfin	3	370	3/14/2014	Complete - Waiting on final documents
Echo Hills Cottages	2013121	Asheville	11	532	4/30/2014	Complete - Waiting on final documents
Village at Bradley Branch - Ph. III	2008076	Asheville	44	783	8/8/2008	Complete - Waiting on final documents
Waynesville Ave (Pittman)	2013046	Asheville	15	332	5/23/2013	Complete-Waiting on final documents
Hyde Park	2013058	Arden	65	3,062	12/3/2013	Complete-Waiting on final documents
Thoms Estate 3B & 4	2013052	Asheville	35	4,690	7/26/2013	Complete-Waiting on final documents
Laurel Lane	2012121	Black Mountain	3	107	8/12/2014	Complete-Waiting on final documents
Publix	2013134	Asheville	Comm.	612	10/5/2014	Complete-Waiting on final documents
Telco - Weaverville	2014046	Weaverville	Comm.	110	5/12/2014	Complete-Waiting on final documents
New Belgium Distribution Ctr.	2014044	Asheville	Comm.	1,620	11/11/2014	Complete-Waiting on final documents
Boulden Subdivision	2013022	Asheville	3	295	9/16/2014	Complete-Waiting on final documents
Locust Springs	2012107	Black Mountain	18	621	3/14/2014	Complete-Waiting on final documents
Palisades Apartments	2013024	Asheville	224	1,423	9/4/2013	Complete-Waiting on final documents

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Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
Ingles - Sand Hill Rd.	2007214	Enka	Comm.	1,255	10/15/2014	Pre-con held, ready for construction
Bartram's Walk	2007065	Asheville	100	10,077	7/28/2008	Waiting on pavement to do final inspection
Morgan Property	2008007	Candler	10	1,721	8/11/2008	Pre-con held, ready for construction
Canoe Landing	2007137	Woodfin	4	303	5/12/2008	Ready for construction
Central Valley	2006166	Black Mtn	12	472	8/8/2007	Punch list pending
Bridle Path	2014040	Asheville	6	129	3/4/2015	Pre-con held, ready for construction
Avalon	2013114	Asheville	192	1,343	6/2/2014	Ready for final inspection
Mallard Run	2014109	Buncombe Co.	72	2,811	10/31/2014	Pre-con held, ready for construction
Crest Mountain Phase 3B	2013041	Woodfin	69	1,329	10/15/2013	Testing
Ingles - Smokey Park Highway	2013135	Asheville	Comm.	1,289	4/11/2014	Ready for final inspection
New Belgium Relocation	2013143	Asheville	Comm.	380	8/12/2014	Pre-con held, ready for construction
Ansley at Roberts Lake	2013126	Buncombe Co.	296	2,534	6/2/2014	Testing
Hunt Hill Apartments	2013111	Asheville	180	1,729	3/5/2014	Ready for final inspection
Rosebriar	2007005	Black Mountain	180	1,729	3/5/2014	Ready for final inspection
Ventana	2014085	Woodfin	100	5,430	8/12/2014	Installing
Upper Kentucky Improvements	2013085	Montreat	N/A	284	12/3/2013	Awaiting paving prior to final inspection
Upper Kentucky Ph. 1 "Res"	2014101	Montreat	5	265	10/31/2014	Awaiting paving prior to final inspection
Isaac Dickson School Relocation	2013033	Asheville	School	504	1/13/2014	Under Construction - on hold
A.B. Tech Fernihurst Relocation	2014061	Asheville	School	697	4/8/2014	Under Construction - on hold
Cool Creek	2014165	Buncombe Co.	10	1,014	4/2/2015	Pre-con held, ready for construction
Haywood Village	2014064	Asheville	Mixed	276	6/19/2014	Testing
Lakeside Meadows	2013067	Weaverville	25	1,096	1/16/2015	Pre-con held, ready for construction
Biltmore Lake Block "I"	2014128	Buncombe Co.	19	1,676	3/31/2015	Pre-con held, ready for construction
Creekside Cottages	2014095	Buncombe Co.	7	504	3/12/2015	Pre-con held, ready for construction
Crossings at Beaverdam	2014150	Woodfin	Comm.	119	2/18/2015	Pre-con held, ready for construction
Mill Creek Townhomes	2014037	Buncombe Co.	18	85	3/4/2015	Pre-con held, ready for construction
Busbee Mountain	2007181	Asheville	9	580	9/29/2014	Ready for final inspection
Country Inn & Suites - Westgate	2014089	Asheville	Comm.	204	1/22/2015	Pre-con held, ready for construction
Burk Street - Phase III	2014079	Asheville	7	111	11/20/2014	Pre-con held, ready for construction
Dillingham Woods	2014048	Asheville	27	375	3/4/2015	Pre-con held, ready for construction
790 Riceville Road	2014078	Asheville	8	1,620	3/3/2015	Pre-con held, ready for construction
Asheville Middle School	2013125	Asheville	School	214	9/30/2014	Pre-con held, ready for construction
Evolve Mountain View	2013105	Asheville	148	347	10/21/2014	Installing

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Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
TOTAL			2,249	67,113		