

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
JANUARY 21, 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, January 21, 2015.

Chairman VeHaun recognized Jackie Bryson, representing Woodfin Sanitary Water & Sewer District for her reappointment to the MSD Board, as well as Councilwoman Gwen Wisler representing the City of Asheville. Chairman Vechaun called on Ms. Wisler for any comments. Ms. Wisler stated she is looking forward to learning more about the MSD organization and appreciates the opportunity to serve. Chairman VeHaun and Vice Chairman Kelly presented Ms. Wisler with the traditional manhole puller. After the presentation, the roll was called with the following members present: Ashley, Belcher, Bryson, Frost, Kelly, Pelly, Root, Stanley, Watts and Wisler. Ms. Manheimer was absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Gary McGill with McGill Associates P.E., Joseph Martin with Woodfin Sanitary Water & Sewer District, Jonathan Kanipe, Town Administrator, with the Town of Biltmore Forest, Patty Beaver with CIBO, and MSD Staff, 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 December 17, 2014 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the December 17, 2014 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 Mr. Kanipe, Mr. Martin, and Ms. Beaver. There was no public comment.

6. Report of General Manager:

Mr. Hartye called on Gary McGill, who asked to address the Board. Mr. McGill stated that most Board members were aware of his home being destroyed by fire several months ago. He reported that a lighting strike burnt down the entire house, all the contents, and vehicles. Fortunately, they were not home at the time. Over the intervening months, they have been in the recovery phase in dealing with insurance, etc. At this point he feels he needs more time to complete this process, but is not sure how long it will take. He stated he has been the Engineer of Record since the mid 1990's, but the title is actually McGill Associates. He suggested that in his absence, Forrest Westall, with McGill Associates, be brought in to fill this position. However, if he is needed in the interim, he will be happy to help in any way he can. Mr. VeHaun stated he appreciates what Gary has done for the Board and MSD and is happy he will still be around. Mr. Hartye added that Gary will be missed and hopes to see him back soon. Mr. Stanley

asked if any action needs to be taken. Mr. Clarke said no, since the Engineer of Record is the company McGill Associates. Mr. Hartye stated MSD has worked with Forrest Westall and that he is up to speed on a lot of the issues, particularly having to do with the plant and treatment, and at one time, was head of the DENR regional office.

Mr. Hartye presented a copy of an AC-T article regarding “non-flushable” items and how the treatment plant handles them. Included is a video link of a tour with Peter Weed, Wastewater Treatment Director, as well as a link on MSD’s main site concerning the main culprit “flushable wipes” which do not disperse after flushing and clog up the waste collection and treatment system. He presented a video clip showing regular toilet paper and how it disperses in water; a clip showing facial tissue, which does not break up in the water, and flushable wipes that do not break up at all, and get caught up on pumps in the pump stations and create havoc. Mr. Hartye stated in the past, MSD had a big campaign having to do with grease, which clogs up the system, and the combination of grease and wipes is even worse. Mr. Watts suggested MSD start a campaign against wipes, like it did against the grease.

Mr. Hartye reported that MSD received a call from Reid Patton of 51 Ambler Road expressing her appreciation for Roy Lytle. She said he was there a couple of weeks ago and was extremely professional, very nice and friendly. A call was received from Robert Milnes of 10 Meadowview Road expressing his appreciation for the fast work and great job done at his address. He expressed his thanks to McKinley Hensley, Travis Chandler, Robert Denny, and John Matthews. Also, a call was received from Randy Mahaffey of 439 Overlook Road about the outstanding job MSD employees did. He expressed his appreciation to Wayne Rice who came out first to check the problem out, and to the dig up crew, Mitchell Metcalf, Roy Lytle, McKinley Hensley, Robert Denny and Travis Chandler. He said they were all very efficient, very nice, very friendly, and did an outstanding job.

Mr. Hartye reported the ROW Committee Meeting for January is cancelled. The next meeting will be held February 25th at 9 a.m. The next regular Board Meeting will be held on February 18th at 2 p.m.

7. Consolidated Motion Agenda:

a. Consideration of Annual Meeting Dates for FY 2015:

Mr. Hartye presented a copy of the Annual Board Meeting Dates for FY2015. He stated that typically, Board meetings are held on the third Wednesday of each month at 2 pm, with the exception of the June meeting which is held on the second Wednesday to accommodate passage of the annual budget. The Right of Way Committee is held on the 4th Wednesday of each month at 9 am unless cancelled. The Personnel, Finance and CIP Committees meet according to the Budget Calendar. The Planning Committee meets as needed.

b. Consideration of Budget Calendar for FY 2015-2016:

Mr. Hartye presented the District’s proposed Budget calendar. He stated that time between Committee and Board meetings has been scheduled to prepare and distribute agenda items, including preparation time for any revisions requested to be presented at a subsequent meeting. The Personnel Committee is slated to convene on April 28. The CIP Committee is slated for April 30th, and the Finance Committee is slated for May 7.

c. Consideration of Bids for Sanitary Sewer Replacement Project – Wendover Road:

Mr. Hartye reported this project is located in West Asheville near Sand Hill Road. The eight-inch line serving the area is in poor structural condition and has experienced SSO's; causing ongoing maintenance problems. The project is comprised of 2,654 LF of 8-inch and 12-inch DIP, and also includes 321 LF of 18-inch interceptor. The contract was advertised and the following bids were received on January 6, 2015: Thomas Construction Co. with a total bid of \$925,807.00; Moore & Sons Site Contractors with a total bid of \$849,951.00; Thunder Disaster Services with a total bid of \$727,293.92; Terry Brothers Construction Co. with a total bid of \$704,877.50; Dillard Excavating Co. with a total bid of \$689,215.00; Buchanan & Sons with a total bid of \$664,106.00, and David Grading, Inc. with a total bid of \$576,269.50. The apparent low bidder is David Grading, Inc. with a bid amount of \$576,269.50. Mr. Hartye reported that Davis Grading has completed a recent MSD rehabilitation project in downtown Black Mountain, and is underway on another project. Their work quality has been excellent on both projects. The FY14-15 Construction Budget for this project is \$753,000.00. Staff recommends award of this contract to David Grading, Inc. in the amount of \$576,269.50, subject to review and approval by District Counsel.

d. Consideration of Contract for Engineering Services – MSD Arc-Flash Study:

Mr. Hartye reported MSD recently completed significant upgrades to the plant's electrical system; 2.5 million over three fiscal years. The first phase was the external power supply. Duke Energy initiated a new Broadway Feeder to supplement the feeds coming into the plant. In addition they installed a new transformer bank @ the substation. Internally, an auto transfer switch was installed and the old switchgear was upgraded to add multiple feeds throughout the plant and added a backup power supply with new 2-MW generators. He presented several slides showing the aforementioned improvements. The next phase is to comply with NFPA 70E regulations to conduct an Arc Flash Study for MSD facilities which include major buildings, the plant, as well as major pumping stations within the collection system. This study will establish safe working limits for the numerous protective devices located throughout MSD facilities. It will accomplish this by testing various circuit breakers and providing a comprehensive study based on the results. Staff advertised a Request for Qualifications in November 2014 and received responses from the following consulting firms: AVO Training Institute; Banta, Hallam ICS; McGill Associates, and Reece, Noland, & McElrath. The Selection Committee evaluated the firms with a weighted scoring system on several criteria. Familiarity with MSD's electrical system (the plant, in particular) is very important and weighted heavily in the scoring system. Since none of the firms, other than McGill had visited the MSD treatment plant, McGill Associates scored the highest and was chosen as the most qualified firm for the project. The FY 14-15 Special Studies Budget for this project is \$125,000.00 and there are sufficient funds within the CIP for the overage. Staff recommends award of the engineering services contract to McGill Associates in the amount of \$138,000.00 subject to review and approval by District Counsel.

e. Cash Commitment/Investment Report – Month Ended November 30, 2014:

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. Page 28 is the MSD Investment Manager Report as of the month of November. The weighted average maturity of the investment portfolio is 236 days. The yield to maturity is 0.43% and is exceeding MSD bench marks of the 6-month T-

Bill and NCCMT cash portfolio. Page 29 is the MSD Analysis of Cash Receipts for the month of November as well as YTD. Both the Domestic & Industrial sewer revenues are 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 cash receipts in their respective fiscal periods. Page 30 is the MSD Analysis of Expenditures. O&M, Debt Service, and Capital Project expenditures are considered reasonable based on historical trends and timing of capital projects. Page 31 is the MSD Variable Debt Service report for the month of December. The 2008A Series is performing better than budgeted expectations. As of the end of December, the issue has saved District rate payers approximately \$3.7 million dollars in debt service since April of 2008.

With no discussion, Ms. Frost moved the Board approve the Consolidated Motion Agenda as presented. Mr. Root seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays.

8. Old Business:

Mr. Belcher noted on Page 33, the “location of projects” was added at his request and how much he appreciates it. Mr. Hartye reviewed the various reports in the Status Report section which are updated monthly. He stated the CIP Summary can be found on the web site which is update regularly.

With regard to electrical updates at the plant, Mr. Watts asked if there is a way to look at a chart or graph showing the outages before the updates, compared to now. Mr. Hartye said yes.

9. New Business:

None

10. Adjournment:

With no further business, Mr. VeHaun moved for adjournment at 2:35 p.m.

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 1/21/15

✓	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 December 17, 2014 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		2:55	
	a. Consideration of Annual Meeting Dates - FY2015	Hartye		
	b. Consideration of Budget Calendar FY2015-2016	Hartye		
	c. Consideration of Bids for Sanitary Sewer Replacement Project –Wendover Road.	Hartye		
	d. Consideration of Contract for Engineering Services – MSD Arc-Flash Study.	Hartye		
	e. Cash Commitment/Investment Report – Month Ended November 30, 2014.	Powell		
	07. Old Business:	VeHaun	3:15	
	08. New Business	VeHaun	3:20	
	09. Adjournment (Next Meeting (2/18/15)	VeHaun	3:30	
	STATUS REPORTS			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
DECEMBER 17, 2014**

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, December 17, 2014. Chairman VeHaun presided with the following members present: Ashley, Belcher, Bryson, Frost, Kelly, Manheimer, Pelly, Root, Russell, Stanley and Watts.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Gary McGill with McGill Associates, P.A., Matthew Socha with Cherry Bekaert, Marcus Jones with Henderson County, Mike Holcombe, Joseph Martin and Rachel McGraw-Burgess with Woodfin Sanitary Water & Sewer District, and MSD Staff, Ed Bradford, Peter Weed, Scott Powell, Jim Hemphill, Mike Stamey, Ken Stines, Matthew Walter, 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 November 19, 2014 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the November 19, 2014 Board Meeting. With no changes, Mr. Russell 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 Mr. Socha, Mr. Jones, Mr. Holcombe, Mr. Martin and Ms. McGraw-Burgess. There was no public comment.

6. Report of General Manager:

Mr. Hartye called on Mr. Socha for a presentation on the Audit results. Mr. Socha reported the District engaged Cherry Bekaert to perform a financial statement audit for the year ended June 30, 2014. The audit was subject to governmental, as well as, generally accepted auditing standards. He stated the financial statements are Management's financial statements, and it was Cherry Bekaert's responsibility to render opinions on those statements as a result of testing. Mr. Socha further reported their opinion on the financial statements as of and for the year ended June 30, 2014 is unmodified ("clean"). They did not identify any material weaknesses or significant deficiencies in internal controls over financial reporting, and found no instances of material noncompliance that are required to be reported under Government Auditing Standards. Mr. Socha reported on the following required auditor communications:

- No new accounting pronouncements adopted that impacted the amounts or disclosures in the financial statements.
- No significant or unusual transactions or balances.
- Accounting estimates:
 - Allowance of uncollectable accounts receivable.
 - Useful lives of assets (i.e., depreciation expense).
 - Other Post Employment Benefits ("OPEB") liability.
 - FMV of Interest Rate Swap.

- No difficulties encountered during the audit.
- No corrected or uncorrected misstatements.
- No disagreements with management.
- Management provided written representations.
- Not aware of any consultation with other independent accounts.
- No other audit findings or issues to bring to the Board's attention.

Mr. Socha presented graphs showing Financial Trends from FY2008-2014. The first graph shows an increase in Capital Assets, net of Accumulated Depreciation, which indicates a net investment in the plant and system. He stated if the line were flat over time that would indicate the District was simply maintaining its system as is. If it shows a negative, this would mean the District is putting in less capital improvements than depreciating on an annual basis. The second graph shows Long Term Bonds Payable. The upward trends in 2010 and 2014 are the years of bond issuances. The third graph shows the Net Position; assets minus liabilities, which is a good useful indicator of the overall financial health of the entity. The Net Position includes, Investment in Capital Assets minus related debt, Restricted and Unrestricted. The final graph is Operating Results, which include Operating Revenue, Expense and Income.

Mr. Socha reported that GASB Statement No. 68 is a new standard called Accounting and Financial Reporting for Pensions. This Statement came out with the goal of improving accountability and financial reporting for pension plans. The ultimate goal is to increase transparency and allow people to see what the net pension to an entity is. Fortunately for the District, the State of North Carolina is projecting that its pension is going to be more than 100% fully funded. This new statement is effective for fiscal year ending June 30, 2015. The objective is to improve accounting and financial reporting for pensions, increase transparency, and improve usefulness of information.

Mr. Socha reported they received full cooperation from their primary contacts, Tom Hartye, Scott Powell and Cheryl Rice and others throughout the organization in the conduct of its audits. He stated they sincerely appreciate all that staff does to make each audit engagement efficient and effective. Mr. Socha called for any questions. With regard to funding for retired employees, Mr. Pelly asked if the system is at 100% or more. Mr. Powell reported while attending a seminar in Raleigh, it was reported that the Local Government Employee Retirement System (LGERS) is at 102%. He stated that LGERS deals specifically with municipal units such as special districts, cities and counties. Although the State has many retirement systems, they are not as funded as the LGERS System. He further stated that over the next five or six years, the same percentage used for this system, will be used for retirement health benefits, which will have a significant impact on most municipal units. The Finance Committee will bring this issue to the Board in the coming year. With regard to the graph showing revenues increasing at a faster rate than expenditures, Mr. Pelly asked if there is a sense as to whether this could reduce projected future rate increases. Mr. Socha stated that long-term capital plans drive decisions on rate increases. Mr. Powell stated the revenue line represents two components of the organization. When looking at every dollar spent, .30¢ goes to operations, .60¢ goes to capital and related debt. What you also don't see in the operating expenditures, is debt expenditures. The increase during 2013-14 represents \$4 million dollars received in impact fees, for which the District only budgeted \$1 million dollars. This means those monies can be utilized for future capital projects.

Mr. Hartye expressed his appreciation to Scott Powell & Cheryl Rice for their tireless effort in preparation of the Audit.

Mr. Hartye reported Molly Whatey of 18 Willow Road emailed to compliment MSD "on-call" crew for responding very quickly and for being very knowledgeable to find the source of their sewer problem and correct it. Thanks to Mike Rice and Tim Haney. Also, Dick Cosgrove of 3 Terre Trail called to express appreciation for Jesse Hunter and crew for doing an excellent job. He added that he was sorry Jesse was

retiring since he is such a good public relations guy. Thanks to Jesse Hunter, Tim Haney, McKinley Hensley, Travis Courtney, Mickey Roberts, and Dale Dillingham. Also, Mr. Hartye presented a letter from Larry Holt of Unitarian Universalist Congregation of Asheville expressing his appreciation for Mike Pressley, MSD's Construction Inspector.

Mr. Hartye said he was sorry to report that MSD Plant Operator, Joe Lassiter lost his wife suddenly at the age of 40. She was an Assistant Teacher at Sand Hill-Venable Elementary School. He asked everyone to keep Joe and his family in their thoughts and prayers.

Mr. Hartye stated that the employee lunch will be Thursday at 11:30 am in the atrium. The next regular Board Meeting will be held on January 21st at 2 pm, and the Right of Way Committee meeting is tentatively set for January 28th at 9 am.

7. Report of Committees:

Right of Way Committee

Mr. Kelly reported the Right of Way Committee met November 27, 2014 to consider Condemnations and Compensation Budgets, which are a part of the Consolidated Motion Agenda. Mr. Clarke reported that during the meeting, there was a mention of MSD vs. Miller on the Merrimon @ Stratford Avenue project. Mr. Clarke stated the condemnation was filed in 2008, and prior to the MSD project, Mr. Miller argued that his view of Merrimon Avenue and the Church at the other end was protected by a row of azaleas. Following estimates on construction easements, plants and re-planting, Mr. Miller's attorney came back with a counteroffer of \$37,500. However, Staff feels this case can be settled for \$30,000.00. Mr. Clarke said he agrees with the \$30,000 settlement and recommends it. Mr. Stanley moved the Board approve a settlement of \$30,000.00 in MSD vs. Miller. Mr. Watts seconded the motion. Roll call vote was as follows: 12 Ayes; 0 Nays.

8. Consolidated Motion Agenda:

a. Consideration of Condemnation – Hilliard Avenue @ Aston Park GSR Project:

Mr. Hartye reported the subject parcel, located on Clingman Avenue, is improved with two commercial buildings and operates a metal finishing business. Both buildings were built right up to the existing sewer that runs along the entire eastern parcel boundary. The new sewer will be shifted further to the east within an unopened street right of way, relocating about 70% of the pipe footage off the parcel. All information regarding this project was sent to the owner in July of this year, but the owner has not communicated with MSD at all. The owner's attorney has corresponded with MSD's attorney requesting minor revisions to the plat, which have been made. In light of the time already passed and lack of communication by the owner, Staff recommends authority to obtain appraisal and proceed with condemnation.

b. Consideration of Condemnation – Melody Circle GSR Project:

Mr. Hartye reported the subject parcel is located off New Salem Road, zoned residential, and improved with one home occupied by a tenant. The home was constructed so close to sewer that the replacement sewer must be constructed outside the existing trench. Other design problems include a creek and thick tree buffer over the existing sewer and along the property line. The owner did not like the proposed alignment and has asked MSD to re-design closer to the property line, which it did, but the owner has not agreed to the alignment. MSD will continue to work with the owner, but if no movement/agreement is reached by year end, the Right of Way

Committee recommends authority to obtain appraisal and proceed with condemnation.

c. Consideration of Compensation Budgets – Four Inch Main-Oakland Drive @ Pine Street GSR Project and Hendersonville Road @ Mills Gap Road GSR Project:

Mr. Hartye reported the Four Inch Main-Oakland Drive @ Pine Street GSR is located in Black Mountain and consists of approximately 1,400 linear feet of 8” DIP to replace existing 4”, 6”, and 8” Orangeburg, PVC and Clay pipe. The Hendersonville Road @ Mills Gap Road GSR project is located in South Asheville and consists of approximately 2,700 linear feet of 12” DIP and 8” HDPE to replace 6”, 8” and 12” clay and PVC pipe. Mr. Hartye further reported the Compensation Budgets are based on current ad valorem tax values and follow the MSD approved formula. The Right of Way Committee recommends approval of the Compensation Budgets.

d. Consideration of Bids for Sanitary Sewer Replacement Project – Shadowlawn Drive Phase 1:

Mr. Hartye reported this project is located in West Asheville across from the NCDMV and the Goodwill Store on Patton Avenue. The project is comprised of 2,700 LF of eight-inch and ten-inch DIP, and includes 1,450 LF of 12-inch HDPE Pipe Bursting. The contract was advertised and the following bids were received on November 20, 2014: Dillard Excavating Co. with a total bid of \$1,155,115.00; Moore & Sons Site Contractors with a total bid of \$995,529.00; Don Moorhead Construction Co. with a total bid of \$933,665.00, and Buchanan & Sons, Inc. with a total bid of \$923,946.00. Buchanan & Sons, Inc. has not completed any rehabilitation projects for MSD, however, staff checked references for other projects and all were positive. The FY 14-15 Construction Budget for this project is \$945,000.00. Staff recommends award of this contract to Buchanan & Sons, Inc. in the amount of \$923,946.00, subject to review and approval by District Counsel.

e. Incinerator System Emission Upgrades Project – Consideration of Equipment Procurement – Heat Exchanger:

Mr. Hartye presented a letter from MSD Counsel, William Clarke, and Consulting Engineer, CDM Smith Inc. regarding review of proposals for the Primary Heat Exchanger. He presented a schematic of the incinerator showing the air treatment unit which was brought to the Board last month. He presented a slide showing the Multi Venturi Scrubber with Sorbent Polymer Composite. At the November meeting the Board approved a sole source with Envirocare for this unit, but the construction contractor is going to buy it as a part of the construction contract that will go out in January. Mr. Hartye presented a slide showing the Fluidized Bed Incinerator with the Heat Recovery and Air Treatment System. He explained the heat exchanger increases the efficiency of the process by recovering residual heat from the incinerator. The recovered heat helps to reduce the amount of fuel that is required to operate the incinerator. Mr. Hartye stated the heat exchanger unit has operated almost continuously since its installation in 2005 and has now reached the end of its useful life. He presented a slide showing the unit which is three stories tall. He expressed his thanks to Mike Ball and Bob Triplet, who have spent a lot of their time reinforcing and patching. Mr. Hartye further stated that the main issue with the heat exchanger is the lead time to manufacture it, which is approximately nine months from the time the District initiates purchase to when it shows up for the contractor to put in. The construction contract will be for approximately twelve months.

Mr. Hartye reported that because of the compliance deadline of March, 2016, the

District is looking to pre-purchase this unit outside the contract. He stated there are only two (2) manufacturers of this equipment. The following two proposals were received on December 4, 2014: Thermal Transfer Corp. with a bid of \$686,000.00 and Arvos, Inc. with a bid of \$659,500.00. Arvos, Inc. was the low bidder, but the bid was deemed “non-responsive” due to extensive alterations of the contract and the bid was rejected. Therefore, Staff recommends the District procure the specified heat exchanger as manufactured by Thermal Transfer Corporation for \$686,000.00.

f. Consideration of Developer Constructed Sewer Systems - Asheville Market Sewer Relocation; Grandview Phase II Sewer Extension; Cottages at Glenn Oaks Sewer Extension, and Ramble Block “D” Sewer Extension:

Mr. Hartye reported the Asheville Market Sewer Relocation Project is located inside the District boundary off Tunnel Road in the City of Asheville. The project included relocating approximately 248 linear feet of 8-inch public gravity sewer and abandoning approximately 185 linear feet of 6-inch public gravity sewer to accommodate the commercial development.

Mr. Hartye reported the Grandview Phase II Sewer Extension Project is located inside the District boundary off Riverview Drive in the City of Asheville. The project included extending approximately 343 linear feet of 8-inch public gravity sewer to serve the seven (7) unit residential development.

Mr. Hartye reported the Cottages at Glenn Oaks Sewer Extension Project are located inside the District boundary off Ledbetter Road in Buncombe County. The project included extending approximately 1,665 linear feet of 8-inch public gravity sewer to serve a forty-four (44) unit residential development.

Mr. Hartye reported the Ramble Block “D” Sewer Extension Project is located inside the District boundary off Ramble Way in Buncombe County. The project included extending approximately 4,786 linear feet of 8-inch public gravity sewer to serve the thirty-six (36) unit residential development.

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

g. Presentation of Audit & CAFR – Fiscal Year Ended June 30, 2014:

Mr. Powell reported the Comprehensive Annual Financial Report (CAFR) is broken down into four (4) sections: Introductory, Financial, Statistical and Compliance. Page 7 is the Introduction section. In this section management communicates the findings of the audit (i.e. an unmodified, modified, opinion); provides a profile of the District which contains a brief overview as well as outlines the budget process; provides a section which address factors affecting financial conditions, and a section which addresses major initiatives and accomplishments in FY2014. Page 20 is the Financial section, which contains the following: Independent Auditor’s report; Management’s discussion and analysis, which is a narrative overview and analysis of the financial activities of the District for FY2014; Basic financial statements, notes, required supplemental information and supplemental information. Page 69 is the Schedule of Revenues and Expenditures, Budget and Actual. Sewer charges were in line with budgeted expectations. Facility and Tap fees were greater than Budget due to revenues exceeding the conservative budget amount. Interest income was below budgeted expectations due to Federal Reserve impact on short term interest rates. With regard to expenditures, the District typically achieves a 96% budget to actual ratio on O&M expenditures. This year the District achieved a 95% budget to actual ratio, which is due to costs at the plant; in particular, deferred utility cost of \$537,000. Capital project expenditures are at approximately 80% of

budget. This is due to continued favorable pricing, a couple of projects being moved to FY15, and one project delayed due to rock. Bond principal and interest actually spent were less than budget. This is due to continued swap savings. Unspent funds will be used to address future CIP and Debt. Page 77 is the Statistical section which provides Historical data on Financial Trends, Revenue Capacity, Debt Capacity, as well as Demographic, Economic and Operating. Page 100 is the Compliance section. This section contains: Independent Auditor's Report on Internal Control over Financial Control over Financial Reporting, and on Compliance and other Matters based on an Audit of Financial Statements. No Material weaknesses in internal control were noted.

h. Cash Commitment/Investment Report – Month Ended October 31, 2014:

Mr. Powell reported Page 47 presents the makeup of the District's Investment Portfolio. There has been no change in the makeup of the portfolio from the prior month. Page 48 is the MSD Investment Manager Report as of the month of October. The weighted average maturity of the investment portfolio is 226 days. The yield to maturity is 0.42% and is exceeding MSD bench marks of the 6-month T-Bill and NCCMT cash portfolio. Page 49 is the MSD Analysis of Cash Receipts. Domestic User Fees, Industrial Revenue, and Facility and Tap Fee revenue are considered reasonable based on historical trends. Page 50 is the MSD Analysis of Expenditures. O&M Debt Service and Capital Project expenditures are considered reasonable based on historical trends and timing of cash expenditures. Page 51 is the MSD Variable Debt Service report for the month of November. The 2008A Series is performing better than budgeted expectations. Both issues have saved District customers approximately \$3.7 million dollars in debt service since April of 2008.

Mr. VeHaun called for discussion. With no discussion, Mr. Watts moved the Board approve the Consolidated Motion Agenda as presented. Mr. Stanley seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays. Ms. Manheimer was absent during the vote.

9. Old Business:

None

10. New Business:

None

11. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:51 p.m.

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO: MSD Board
FROM: Thomas E. Hartye, P.E., General Manager
DATE: January 15, 2014
SUBJECT: Report from the General Manager

- AC-T Clip on the fate of “Non-flushable” items

Attached is a copy of an AC-T write-up regarding “non flushable” items and how the treatment plant handles them. The associated video link of a tour with Peter Weed, Wastewater Treatment Director is here <http://www.citizen-times.com/story/news/local/2015/01/06/answer-man-non-flushable-items-flush/21352665/> . There is also a link on MSD’s main site concerning the main culprit, “flushable wipes” which do not disperse after flushing and clog up the waste collection and treatment system.

- Kudos

- Reid Patton of #51 Ambler Road wanted to call in and give her huge amount of appreciation of Roy Lytle. He was there a couple of weeks ago. He was extremely professional, very nice and friendly. She was very impressed with what he did to fix the area back that was torn up with equipment being on the lot. Just couldn’t say enough great things about him, said he was very humble.
- Robert Milnes of 10 Meadowview Rd. called and wanted MSD to know his appreciation for the fast work and the great job done at this address. Great job cleaning up the area as well. Thanks to McKinley Hensley, Travis Chandler, Robert Denny, and Josh Matthews.
- Randy Mahaffey @ 439 Overlook Rd. Ext called and said he wanted to tell someone what an outstanding job MSD employees did. He said Wayne Rice came out first to check out the problem and he was outstanding, very nice and very friendly. Did a great job. Then the dig up crew came, he named them off – Mitchell Metcalf, Roy Lytle, McKinley Hensley, Robert Denny and Travis Chandler. He said they were very efficient, very nice, very friendly and did an outstanding job.

- Board/Committee Meetings/Events

The ROW Committee for January is cancelled. The next ROW Committee Meeting is scheduled for February 25th at 9am. The next Regular Board Meeting will be held on February 18th at 2 pm.

Answer Man: What non-flushable items do we flush?



Answer Man: What Non-flushable items do we flush? William Woody/wwwoody@citizen-times.com



[John Boyle, jboyle@citizen-times.com](mailto:jboyle@citizen-times.com) 8:30 p.m. EST January 6, 2015



(Photo: John [Boyle/jboyle@citizen-times.com](mailto:jboyle@citizen-times.com))

Today's batch of burning questions, my smart-aleck answers and the real deal:

Question: What do people put down their drains or into street drains that should not be there? What are the biggest problems? What does MSD do with these items? How many miles of sewer lines? What is the quality of water entering river?

My answer: I'd like to thank this reader for one of the more, ahem, engrossing tours I've had lately.

Real answer: Actually, it was pretty fascinating seeing how the Metropolitan Sewerage District, which processes some 20 million gallons of wastewater a day, handles these items.

Folks, we flush a lot of inappropriate stuff.

"I'd say one to two Dumpsters are filled each day," said Peter Weed, director of wastewater treatment, operation and maintenance at the Metropolitan Sewerage District of Buncombe County. "And each one of those is just over 1.5 cubic yards. That's slightly less than a pickup truck bed, but that's with the material wadded up and dried."

The items I saw Tuesday are pretty representative: Lots of allegedly flushable wipes, plastic feminine hygiene products, condoms, a rubber glove, and yes, one lonesome golf ball.

Worst golf shot ever.

The plant, north of Asheville on Riverside Drive, has a specially built machine that essentially rakes out the materials with a steel grate with three-quarter inch spacing, and dumps it into a trough that empties into the Dumpster. Yes, all that stuff you flush and think is magically disappearing actually has to be trucked to the landfill.

Other equipment farther along the line pulls out smaller items, such as lollipop sticks and candy wrappers.

While plastic items and the wipes rule, the plant also sees a fair number of lost dentures. And yes, some folks actually stop by to see if they can reclaim them. Let your mind wander over that for a second.

"And we get calls about wedding rings," said Roger Edwards, operations manager at the plant. "Unfortunately, if they didn't react quickly and get it out, or call a plumber (before flushing), if it makes it to the public (lines), the chances of finding it are next to impossible."

It's probably headed toward the landfill with the Dumpster-load of inappropriate items, or it's buried deep in the muck of the system somewhere.

As far as the mileage of lines, that's about 1,000, Weed said. The Metropolitan Sewerage District serves 50,000 customers in Buncombe County and northern Henderson County.

All kidding aside, I'd like to note that the smell at the plant really wasn't that bad, even at the intake area where the raw sewage is flowing. By the end, the water leaving the plant is remarkably clean, looking like river water to me.

"Our quality is better than the river's quality in terms of bacteria counts and the oxygen within it, and particulates," Weed said. "We have to test the water above us and below us, and quite often the river quality below us is better because of our input."

The system kills harmful bacteria, and MSD chlorinates and then de-chlorinates the water before it hits the French Broad.

Question: Why does WLOS put on Tom Campbell's "N.C. Spin" show at 5 a.m. Sunday when most of us are sleeping?

My answer: The last time I voluntarily got up at 5 a.m. it involved Christmas and a certain large red-suited elf. Yes, it was last year.

Real answer: "That's the only time period that we had available for the program," said WLOS-News 13 general manager Jack Connors. "We wanted to put it on there in a non-overnight time period, and that was the best we had."

This is the opinion of John Boyle. To submit a question, contact him at 232-5847 or jboyle@citizen-times.com

**METROPOLITAN SEWERAGE DISTRICT
ANNUAL MEETING DATES
2015**

BOARD MEETINGS – 2:00 PM

January 21

February 18

March 18

April 15

May 20

June 10

July 15

August 19

September 16

October 21

November 18

December 16

COMMITTEE MEETINGS - (See Budget Calendar)

Planning Committee - As needed by notice.

Right of Way Committee - 4th Wednesday of each month at 9 a.m. No meeting in December.

Personnel Committee - As needed by notice. (See Budget Calendar)

Finance Committee - As needed by notice (See Budget Calendar)

CIP Committee - Annual – (See Budget Calendar)

Metropolitan Sewerage District of Buncombe County BOARD ACTION ITEM

Meeting Date: January 21, 2015
Submitted By: Thomas E. Hartye, PE., General Manager
Prepared By: W. Scott Powell, CLGFO Director of Finance
Subject: Adoption of Budget Calendar – FY2015-2016

Background

The District's budget process must satisfy requirements in the North Carolina General Statutes as well as the 1999 Amended and Restated Bond Order. NC statutes require an annual balanced budget ordinance based upon expected revenues, along with a budget message to be presented to the governing board no later than June 1. Thereafter, the budget must be adopted no earlier than 10 days after the budget is first presented to the Board and not later than July 1. The Bond Order calls for the budget to be adopted by the Board on or before June 15.

Discussion

The attached budget calendar is designed to allow for input by all stakeholders into a systematic and deliberate process. Time between committee and board meetings has been scheduled to prepare and distribute agenda items, including preparation time for any revisions requested to be presented at a subsequent meeting.

The Finance Committee meeting to discuss the proposed budget is scheduled for May 7th with the expectation that fairly firm estimates of health and other insurance renewal care costs will be available by the middle of April.

This calendar is a guide and committee meetings may be added and/or rescheduled as necessary to accommodate the Preliminary Budget being presented on May 20 and the Final Budget being adopted on June 10.

Fiscal Impact

None.

Staff Recommendation

Approval of the proposed Budget Calendar.

Action Taken

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

Budget Calendar FY 2016

April						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

DATE	TIME	SUBJECT
April 28	9:00 a.m.	Personnel Committee Meeting
		<ul style="list-style-type: none"> Cost of Living & Merit Pay Benefit Allocations
April 30	8:30 a.m.	CIP Committee Meeting
		<ul style="list-style-type: none"> Update of Ten-Year Capital Improvement Program Update Construction Program Financing 2015-2016 Construction Fund Budget
May 7	9:00 a.m.	Finance Committee Meeting
		<ul style="list-style-type: none"> Nine Month Revenue/Expenditure Report Self-Funded Medical & Dental Program Proposed FY16 Construction Fund Budget Proposed FY16 Operating Budget & Sewer Rates
May 20	2:00 p.m.	Board Meeting
		<ul style="list-style-type: none"> Preliminary FY16 Budgets & Sewer Rates
June 10	2:00 p.m.	Board Meeting
		<ul style="list-style-type: none"> Public Hearing Adoption of FY16 Budgets & Sewer Rates
July 1		Start of Fiscal Year 2015-2016

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

BOARD MEETING DATE: January 21, 2015

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

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Roger Watson, P.E. - Project Manager

SUBJECT: Consideration of Bids for Sanitary Sewer Replacement Project: Wendover Road, MSD Project No. 2008184

BACKGROUND: This project is located in West Asheville, near Sand Hill Road. The eight-inch line serving this area is in poor structural condition, has experienced SSO's, and has caused ongoing maintenance problems.

The project is comprised of 2,654 LF of 8-inch and 12-inch DIP, and also includes 321 LF of 18-inch interceptor. The total project length is 2,975 LF.

The contract was advertised and seven bids were received on Tuesday, January 6, 2015 as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Thomas Construction Co.	\$925,807.00
2) Moore & Sons Site Contractors	\$849,951.00
3) Thunder Disaster Services	\$727,293.92
4) Terry Brothers Construction Co.	\$704,877.50
5) Dillard Excavating Company	\$689,215.00
6) Buchanan & Sons	\$664,106.00
7) Davis Grading, Inc.	\$576,269.50

The apparent low bidder is Davis Grading, Inc. with a bid amount of \$576,269.50. Davis Grading has completed a recent MSD rehabilitation project in downtown Black Mountain, and is underway on another project. Their work quality has been excellent on both projects.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY14-15 Construction Budget for this project is \$753,000.00.

STAFF RECOMMENDATION: Staff recommends award of this contract to Davis Grading, Inc. in the amount of \$576,269.50, subject to review and approval by District Counsel.

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

**Wendover Road Sewer Replacement
Project No. 2008184**

**BID TABULATION
January 6, 2015**

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$925,807.00
Moore & Son Site Contractors Mills River, NC	5%	1	Yes	\$849,951.00
Thunder Disaster Services Waynesville, NC	5%	1	Yes	\$727,293.92
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	(*) \$704,877.50
Dillard Excavating Company Sylva, NC	5%	1	Yes	\$689,215.00
Buchanan & Sons, Inc. Whittier, NC	5%	1	Yes	\$664,106.00
Davis Grading, Inc. Shelby, NC	5%	2	Yes	\$576,269.50

APPARENT LOW BIDDER

(*) Correction in bidder's total amount

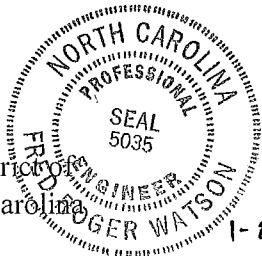
F. Roger Watson

F. Roger Watson, P.E.

Project Engineer

Metropolitan Sewerage District of

Buncombe County, North Carolina



1-6-15

This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 6th day of January, 2015, in the W.H. Mull Building at the Metropolitan Sewerage District of Buncombe County, Asheville, North Carolina, and that said bids were accompanied by acceptable bidders bonds in the amount of 5% of the bid.

Interoffice Memorandum

TO: Tom Hartye, General Manager
Ed Bradford, CIP Manager

FROM: F. Roger Watson, Project Engineer

DATE: January 6, 2015

RE: Wendover Road Sanitary Sewer Replacement Project, MSD Project No. 2008184

This project is for the replacement of an existing 8-inch sewer main which serves properties along Wendover Drive, in West Asheville. Lines that connect to this main, which serve Chester Place and Claredon Road, have previously been repaired by lining. This line cannot be repaired in the same manner due to its poor structural condition.

The existing sewer main is at the rear of lots fronting on Wendover Drive and is in very poor condition. It is also in close proximity to Canie Creek and has several leaking sections which cause it to be a high source of I&I. The proposed alignment will also provide sewer service to several homes and properties which are not presently served by the MSD system.

This project includes replacing the existing sewer mains with 2,512 LF of 8-inch DIP and 142 LF of 12-inch DIP. The project also includes replacement of a 321 LF segment of existing 18-inch interceptor line. The replacement of the interceptor portion is necessary to provide sufficient grade for the new line.

Bids were received at 2:00 PM on Tuesday, January 6, 2015 for this project from seven bidders, as shown below:

<u>Contractor</u>	<u>Bid Amount</u>
1) Thomas Construction Company of Johnson City, TN	\$925,807.00
2) Moore & Sons Site Contractors of Mills River, NC	\$849,951.00
3) Thunder Disaster Services of Waynesville, NC	\$727,293.92
4) Terry Brothers Construction Co. of Leicester, NC	\$704,877.50
5) Dillard Excavating Company of Sylvania, NC	\$689,215.00
6) Buchanan & Sons of Whittier, NC	\$664,106.00
7) Davis Grading, Inc. of Shelby, NC	\$576,269.50

Davis Grading, Inc. of Shelby is the apparent low bidder with a bid amount of \$576,269.50. Davis Grading, Inc. has worked on a recent MSD project in Black Mountain and did an excellent job, within a restricted construction window. Davis is currently working on another MSD project in West Asheville and their work is proceeding very well. They have also worked on MSD sewer extensions, as a contractor for private development projects.

Staff recommends that this project be awarded to Davis Grading, Inc. of Shelby, NC in the amount of \$576,269.50, pending MSD Counsel's review and approval of the bids.

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

BUDGET DATA SHEET - FY 2014 - 2015

PROJECT: Wendover Road	LOCATION: Asheville
TYPE: General Sewer Rehab.	PIPE RATING: 48
PROJECT NO.: 2008184	TOTAL LF: 2,974
PROJECT BUDGET: \$836,650.00	PROJECT ORIGIN: SSO's, Work Orders, Line Condition

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/13	EST. COST JAN - JUNE 2014	EST. BUDGET FY 14-15
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$14,150.00	\$14,150.00		
55330 - DESIGN				
55340 - PERMITS	\$2,000.00		\$2,000.00	
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$7,500.00	\$3,385.00	\$4,115.00	
55370 - LEGAL FEES	\$6,000.00	\$2,622.00	\$3,378.00	
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION	\$30,000.00		\$25,000.00	\$5,000.00
55400 - APPRAISAL	\$5,000.00		\$2,500.00	\$2,500.00
55410 - CONDEMNATION	\$10,000.00		\$5,000.00	\$5,000.00
55420 - CONSTRUCTION	\$753,000.00			\$753,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$2,000.00			\$2,000.00
55450 - SURVEY - ASBUILT	\$7,000.00			\$7,000.00
TOTAL AMOUNT	\$836,650.00	\$20,157.00	\$41,993.00	\$774,500.00

ENGINEER: MSD	RW	ESTIMATED BUDGETS - FY '15 -'24	
R.O.W. ACQUISITION: MSD	# PLATS: [6]	FY 15-16	\$0.00
CONTRACTOR:		FY 16-17	\$0.00
CONSTRUCTION ADM: MSD		FY 17-18	\$0.00
INSPECTION: MSD		FY 18-19	\$0.00
		FY 19-20	\$0.00
PROJECT DESCRIPTION: This project will replace an existing 10-inch vitrified clay pipe sewer line serving the Wendover Road area west of Sandhill Road. The existing line has broken pipes, leaking joints, and is in need of being replaced. There have been several SSO's, and the line is a high source of inflow and infiltration.		FY 20-21	\$0.00
		FY 21-22	\$0.00
		FY 22-23	\$0.00
		FY 23-24	\$0.00

SPECIAL PROJECT NOTES:



**Wendover Road
Project No. 2008184**

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: January 21, 2015

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

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

SUBJECT: Consideration of Engineering Contract: MSD Plant Electrical Arc Flash Study, MSD Project Number 2014060

BACKGROUND: Summary of Project

MSD recently completed significant upgrades to the plant's electrical system. This next phase for electrical improvements is to comply with National Fire Protection Association (NFPA) 70E regulations to conduct an Arc Flash Study for MSD facilities. The facilities include the electrical systems on the MSD campus (major buildings and the plant) as well as major pumping stations within the collection system.

The Arc Flash Study will establish safe working limits for the numerous protective devices located throughout MSD facilities. It will accomplish this by testing various circuit breakers and providing a comprehensive study based upon those results.

The study will be used to correctly determine fuse, breaker, and switch gear ratings. These ratings will be used to evaluate the protective measures needed when working on or near plant electrical panels.

Circuit breaker panels will display a permanent arc flash label, showing the required personal protective equipment when working near the panel.

Selection of Design Firm

Staff advertised a Request for Qualifications in November 2014, and received responses from five consulting firms – AVO Training Institute, Banta, Hallam ICS, McGill Associates, and Reece, Noland, & McElrath. All five firms had relevant experience with breaker testing and arc flash studies.

The staff selection committee evaluated the firms with a weighted scoring system based on the following criteria:

- 1) Project Team and Subs
- 2) Similar Projects
- 3) Experience and References
- 4) Office Location
- 5) Familiarity of MSD's Plant Electrical System, and
- 6) Approach to handling Breaker Testing and the Arc Flash Study

Familiarity with MSD's electrical system (and the plant's, in particular) is very important, and was therefore weighted heavily in the scoring system. None of the firms, other than McGill, has visited the MSD treatment plant. Ultimately, McGill Associates scored the highest and was therefore chosen as the most qualified firm for this project.

McGill Associates is an established and well-respected consulting engineering firm. They also have extensive experience with MSD and the plant's electrical system.

McGill Associates' fee for this work is \$138,000.00, and includes the circuit breaker testing which was not in the original project budget. The circuit breaker testing will determine the allowable load and the working condition of critical breakers throughout the plant.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY 14-15 Special Studies Budget for this project is \$125,000.00. There are sufficient funds within the CIP for the overage.

STAFF RECOMMENDATION: Staff recommends award of the engineering services contract to McGill Associates, in the amount of \$138,000.00 subject to review and approval by District Counsel

Interoffice Memorandum

TO: Tom Hartye, General Manager

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

DATE: January 6, 2015

RE: Plant Electrical Arc Flash Study, MSD Project No. 2014060

The Plant Electrical Arc Flash study project was requested by Dan Waugh, Environmental Health and Safety Manager at MSD, in order to meet NFPA 70E regulations. The Arc Flash study will establish safe working limits for protective devices such as fuses, breakers, and switch gear throughout the plant and other MSD facilities. Circuit breaker testing will need to be added to the project in order to properly conduct the Arc Flash study. Once the study is completed, a permanent arc flash rating label will be affixed to or near breaker panels.

The staff selection committee evaluated the firms with a weighted scoring system based on the following; project team and subs, similar project experience and references, office location, familiarity of MSD's plant electrical system, and approach to handling breaker testing and the arc flash study. Familiarity with the MSD electrical system is important, and was therefore weighted heavily in the scoring system.

The following firms provided qualifications: 1) AVO Training Institute; 2) Banta; 3) Hallam ICS; 4) McGill Associates; and 5) Reece, Noland, & McElrath, Inc.

McGill Associates had the highest score of the firms, and was ultimately selected as the most qualified firm for this project. McGill Associates is an established and well-respected consulting engineering firm. They also have extensive experience with MSD and the plant's electrical systems.

Staff recommends award of this contract to McGill Associates contingent upon review and approval by District Counsel.



January 12, 2015

Thomas E. Hartye, P.E.
General Manager
Metropolitan Sewerage District of Buncombe County
2028 Riverside Drive
Asheville, North Carolina 28804

Re: Proposal for Engineering Services
Arc Flash Study / Selective Equipment Testing

Dear Mr. Hartye:

McGill Associates is pleased to be considered to perform the subject project for the Metropolitan Sewerage District of Buncombe County (MSD) based on our Statement of Qualifications for this project dated December 5, 2014. We are providing herein our proposal for a proper scope of work to complete this project and the associated engineering costs. I will remain involved in the project throughout our work scope for administrative oversight of the project schedule and budget and any other project matters. Phil Fisher, our Electrical Services Manager, will be our technical Project Manager who will be responsible for the work of the project and any other of our electrical staff that may be involved in specific components of the project.

The facilities involved in the Arc Flash Study portion of the project are as follows:

❖ Water Reclamation Facility (WRF) buildings and processes as follows:

- 2.4 KV Site Electrical
- Hydroelectric Plant
- Raw Pump Station
- Generator Building
- 801 Pump Building
- Primary Microscreen Building
- Sludge Thickener
- Lime Stabilization
- Blower Building
- Filter Building
- Service Building
- Solids Handling
- Return Sludge
- Hypochlorite
- Utility Building
- Administration Building

E n g i n e e r i n g • P l a n n i n g • F i n a n c e

McGill Associates, P.A. • P.O. Box 2259, Asheville, NC 28802 • 55 Broad Street, Asheville, NC 28801

828-252-0575 • Fax 828-252-2518

Other Buildings and Facilities as follows:

- ❖ Mull Building
- ❖ Fleet Building
- ❖ Maintenance Building
- ❖ Carrier Bridge Pump Station
- ❖ Ridgefield Pump Station #1
- ❖ Weaverville Pump Station #1
- ❖ Weaverville Pump Station #2
- ❖ SouthCliff Pump Station
- ❖ Ferry Road Pump Station
- ❖ Little Flat Creek Pump Station

The equipment involved with the Selective Equipment Testing portion of the Project is as follows:

- ❖ Two (2) MV 2400V vacuum circuit breakers [Main Switchgear No. 3]
- ❖ One (1) MV 2400V vacuum circuit breaker [Main Switchgear No. 1]
- ❖ One (1) 480V molded case [MCC 1A Influent Pump Station - Main]
- ❖ One (1) MV 2400V vacuum circuit breaker [Old Generator Building]
- ❖ One (1) 480V molded case [Outdoor enclosure east side primary screen building]
- ❖ One (1) 480V molded case [New lawn mower building - MCC 5B]
- ❖ Three (3) 480V molded case [Sludge Handling Building - switchgear room]
- ❖ Three (3) MV 2400V contactors [Hydro Facility]

SCOPE OF WORK

2.1 Arc Flash Study Phase

- 2.1.1 **McGill** will obtain data required for the study from the following sources: MSD WRF Record Drawings, nameplate data from electrical apparatus collected at the site and Duke Energy. This work will be performed by **McGill** personnel in conjunction with the staff at Power Products and Solutions.
- 2.1.2 **McGill** will complete a preliminary coordination study report and device evaluation with recommendations for any device changes.
 - 2.1.2.1 **McGill** will develop the necessary software model(s) to complete the study at the WRF and the other sites as outlined in this agreement.
 - 2.1.2.2 To complete the preliminary study, **McGill** will first perform a fault current study to determine the magnitude of fault currents flowing throughout the power system at various time intervals after a fault (short circuit) occurs in the system. This study will be completed for three-phase, phase-to-phase and phase-to-ground faults at different locations throughout the system. The study cases will consider the various operating scenarios (different sources and loads) for the treatment plant. From this calculated fault current data, along with fault duration data, each existing device will be evaluated for adequacy to interrupt imposed fault current. Any over-dutied circuit breakers, fuses, switches and conductors will be identified along with optional strategies to correct the condition.

- 2.1.2.3 Review the preliminary study described above with the **District** for comments and approval.
- 2.1.3 Once the preliminary study is approved and any adjustments are required as a result of preliminary findings, the final study will be completed and certified by **McGill**. The final study will indicate a selectively coordinated system to the extent possible for each operating scenario. A device settings report will be provided for devices with adjustable settings and for protective relays. Coordination curves will be presented for groups of interrelated protection devices along with a corresponding one line diagram. Sequence of events reports will be provided showing the exact order of operation for each device. Alternate settings for adjustable devices will be presented to facilitate performing maintenance under safer conditions.
- 2.1.4 **McGill** will provide complete one-lines of all systems studied in both paper and PDF form. The one-line will display ratings information about all conductors and devices such as wire size, type, raceways, buses, controllers, fuses, circuit breakers, transformers, utility sources, generators and loads.
- 2.1.5 In order to optimize selective coordination, **McGill** will collect load data for system electric busses while completing field work. **McGill** will coordinate closely with **District** staff to carefully identify all operational loads as well as obsoleted processes.
- 2.1.6 **McGill** will apply arc-flash labels for 2400V ac, 600V ac, 480V ac, and applicable 208V ac panel boards and disconnects and for each of the following locations:
- ❖ Motor-control centers
 - ❖ Low voltage switchboards
 - ❖ Switchgear
 - ❖ Panel boards
 - ❖ Medium-voltage switches
 - ❖ Control panels

2.2 Selective Equipment Testing Phase

- 2.2.1 **McGill** will provide the testing of selected equipment as outlined in this agreement. The tests will be completed following NETA testing specifications for the type of equipment being tested. A report will be provided containing the results of the tests. **McGill** shall closely coordinate this work with **District** personnel, in order to schedule particular outages and minimize effects on plant operations.

ENGINEERING PERSONNEL ASSIGNED TO THE PROJECT

McGill Associates will perform all of the scope of work from our Asheville office and will utilize the specific services of a subconsultant, Power Products and Solutions from Charlotte, North Carolina. Ralph Patterson with Power Products and Solutions is nationally known and respected for his expertise and assisted McGill Associates and MSD with equipment testing during the construction of the new electrical system recently completed in the Water Reclamation Facility. The project team members and responsibilities are as follows:

Gary McGill, P.E., Principal	Project oversight / Administrative management
Phil Fisher, P.E., Electrical Services Manager	Project management / Lead technical engineer
Daniel Griffee, P.E., Project Engineer	Field data collection / computer model data accuracy
Brian Moseman, Senior Electrical Technician	Computer models preparation
Nick Huffman, P.E., Senior Project Engineer	QA/QC of technical accuracy of analyses and models
Ralph Patterson, P.E., General Manager Power Products and Solutions	Selected equipment testing

ENGINEERING COST AND SCHEDULE

The engineering costs include all labor and expenses incurred by the McGill Associates staff assigned directly to the project and the labor and expenses incurred by Power Products and Solutions for their portion of the work scope. The proposed engineering cost for the project is **\$138,000.00** to complete the scope of the tasks listed above and achieve the goals and objectives of the project.

The scheduled completion date for the project is **June 30, 2015** to match the end of the current fiscal year. We believe the project can be completed prior to that date and all possible efforts will be made for an early completion.

McGill Associates very much appreciates the opportunity to perform the engineering services for an important project such as this for MSD. We look forward to our continuing relationship with the MSD staff and the Board of Directors. Please contact me at 828.252.0575 or gary.mcgill@mcgillengineers.com if there are any questions or the need for additional information regarding this proposal.

Sincerely,
McGill Associates, P.A.



Gary R. McGill, P.E.
Principal

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: January 21, 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 November 30, 2014

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 November 30, 2014 were \$53,147,604. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.430%. 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 November 30, 2014 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of November 30, 2014 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$12,494,367.

Total Cash & Investments as of 11/30/2014		53,147,604
Less:		
Budgeted Commitments (Required to pay remaining FY14 budgeted expenditures from unrestricted cash)		
Construction Funds	(16,137,576)	
Operations & Maintenance Fund	<u>(9,457,055)</u>	
		(25,594,631)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(7,172)	
Remaining Principal & Interest Due	<u>(9,826,370)</u>	
		(9,833,542)
District Reserve Funds		
Fleet Replacement	(385,830)	
WWTP Replacement	(485,111)	
Maintenance Reserve	<u>(913,217)</u>	
		(1,784,158)
District Insurance Funds		
General Liability	(290,523)	
Worker's Compensation	(257,405)	
Post-Retirement Benefit	(1,340,812)	
Self-Funded Employee Medical	<u>(1,552,166)</u>	
		(3,440,906)
Designated for Capital Outlay		<u>12,494,367</u>

Staff Recommendation

None. Information Only.

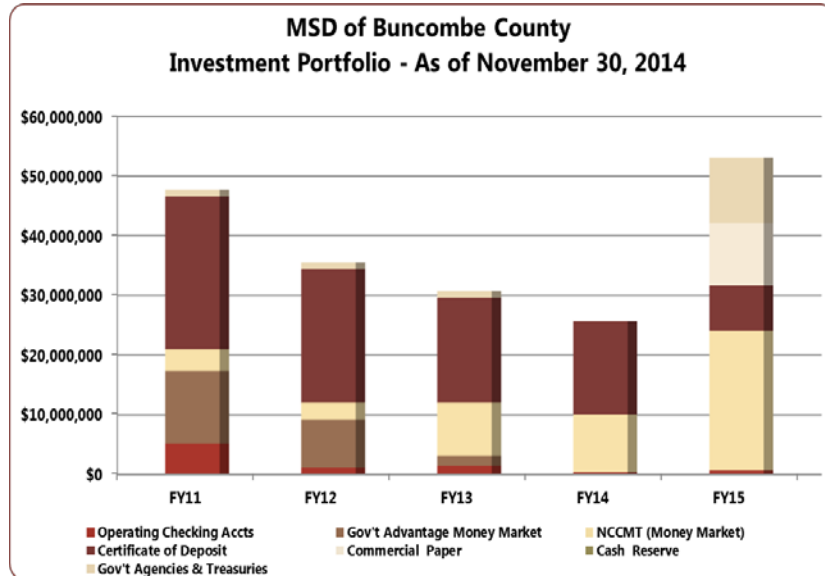
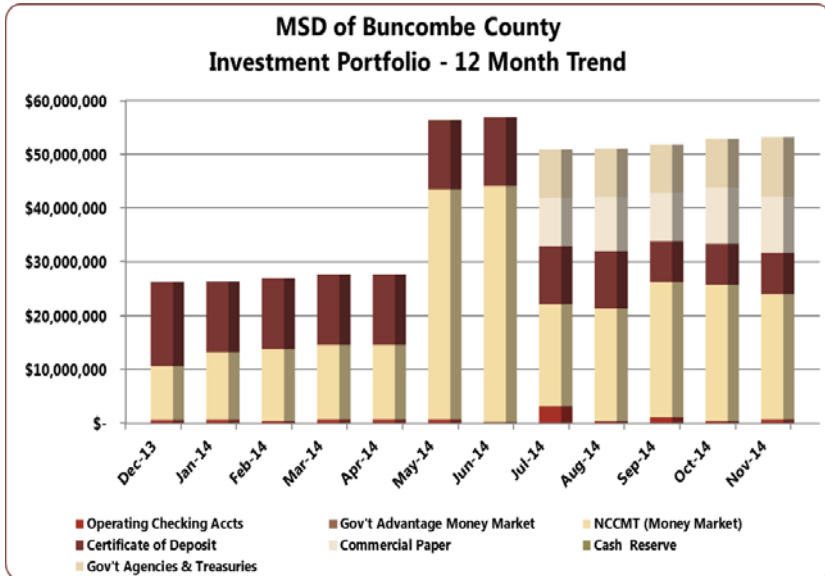
Action Taken

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	\$ -	\$ -	\$ 7,172	\$ -	\$ -	\$ -	\$ -	\$ 7,172
Held by MSD	636,512	46,661	23,375,648	7,591,468	10,491,163	-	10,998,980	53,140,432
	\$ 636,512	\$ 46,661	\$ 23,382,820	\$ 7,591,468	\$ 10,491,163	\$ -	\$ 10,998,980	\$ 53,147,604

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries,			
Agencies and Instrumentalities	100%	20.70%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	14.28%	The District 's YTM of .43% is exceeding the YTM benchmarks of the
Commercial Paper	20%	19.73%	
North Carolina Capital Management Trust	100%	44.00%	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		1.20%	
Gov't Advantage Money Market		0.09%	

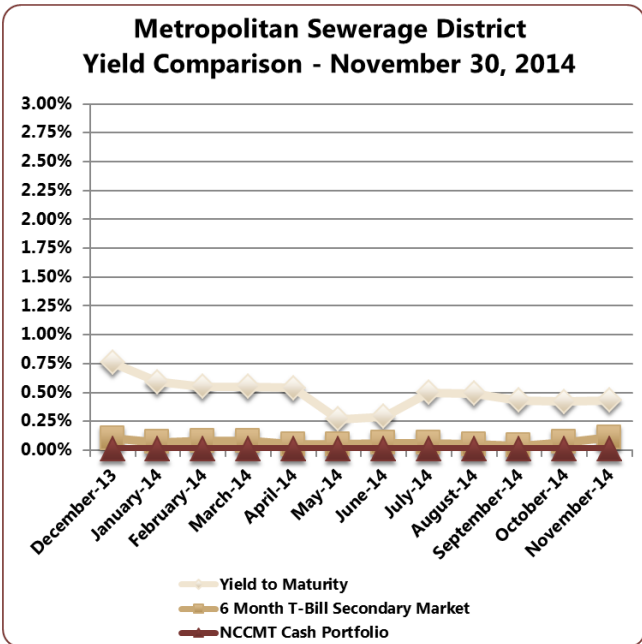
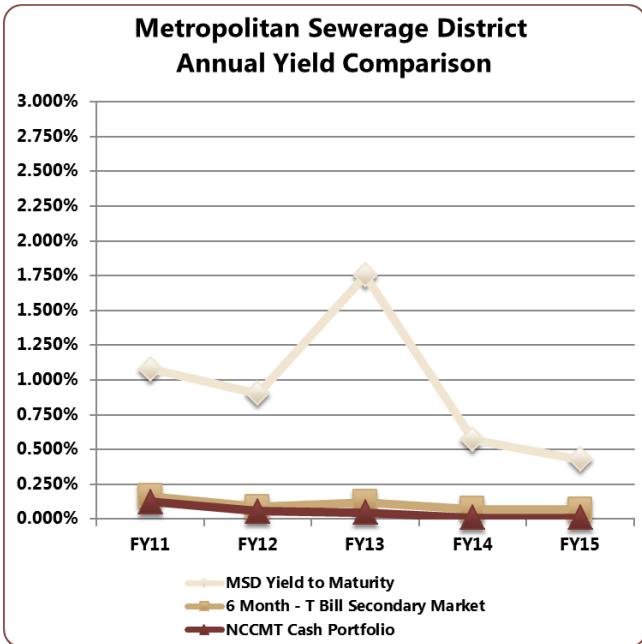


**METROPOLITAN SEWERAGE DISTRICT
INVESTMENT MANAGERS' REPORT
At November 30, 2014**

	Original		Interest Receivable
	Cost	Market	
Beginning Balance	\$ 50,238,923	\$ 50,238,923	\$ 349,917
Capital Contributed (Withdrawn)	(16,732)	(16,732)	
Realized Income	2,329	2,329	(1,268)
Unrealized/Accrued Income		-	13,892
Ending Balance	\$ 50,224,520	\$ 50,224,520	\$ 362,541

	Original Cost	Income
Cash Equivalents <91 Days	\$ 29,136,917	\$ 8,674
Securities/CD's 91 to 365 Days	12,088,573	\$ 3,599
Securities/CD's > 1 Year	8,999,030	\$ 2,679
	\$ 50,224,520	\$ 14,952

Month End Portfolio Information	
Weighted Average Maturity	236
Yield to Maturity	0.43%
6 Month T-Bill Secondary Market	0.11%
NCCMT Cash Portfolio	0.01%



Board Meeting:

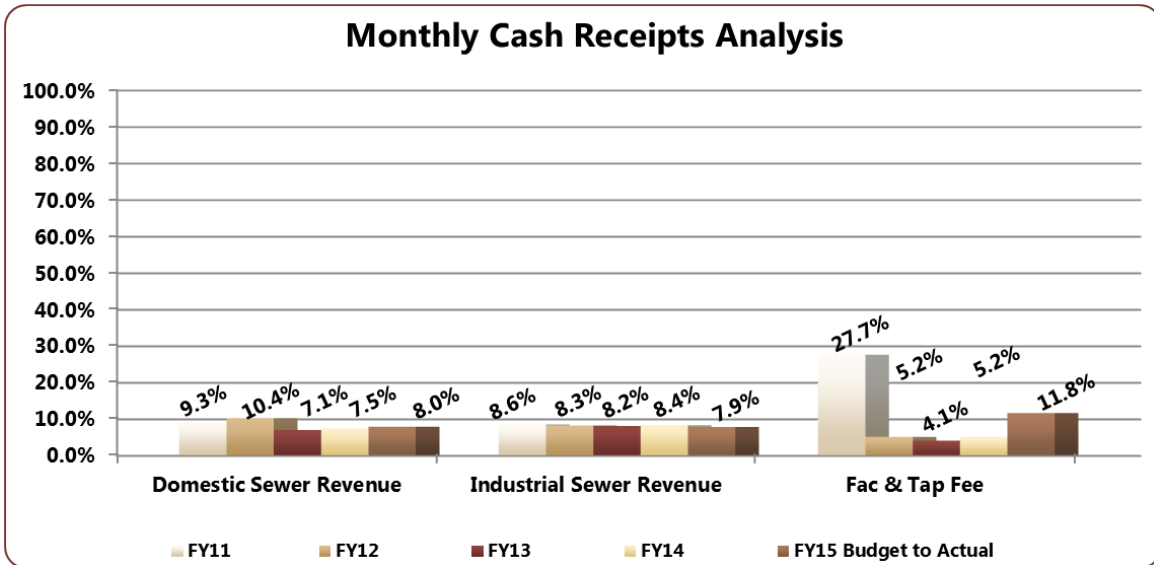
January 21, 2015

Subject:

Cash Commitment/Investment Report-Month Ended November 30, 2014

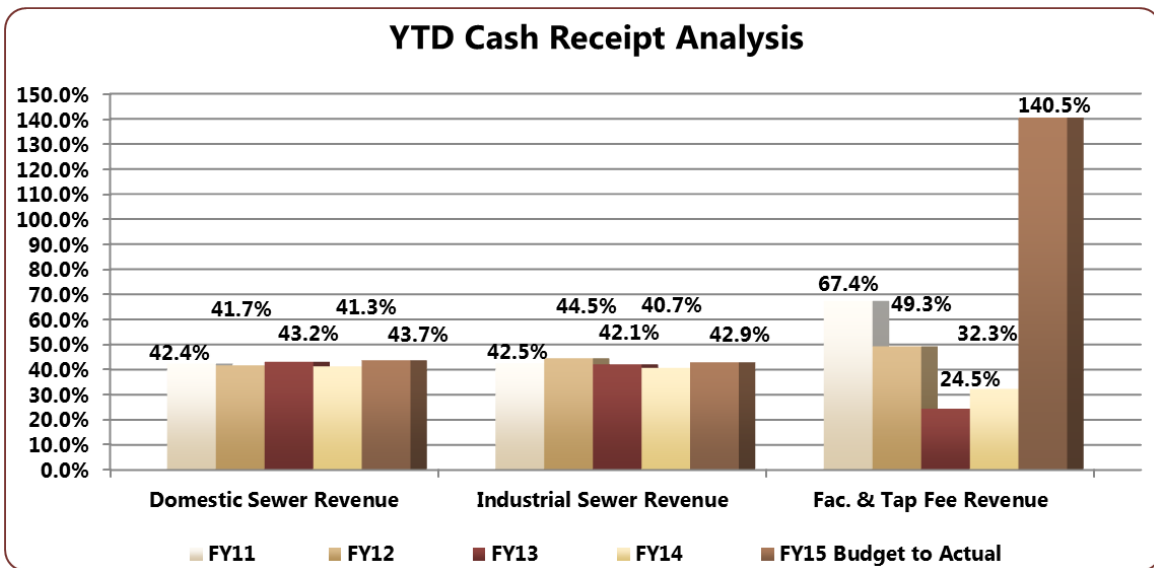
Page -4-

**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF CASH RECEIPTS
As of November 30, 2014**



Monthly Cash Receipts Analysis:

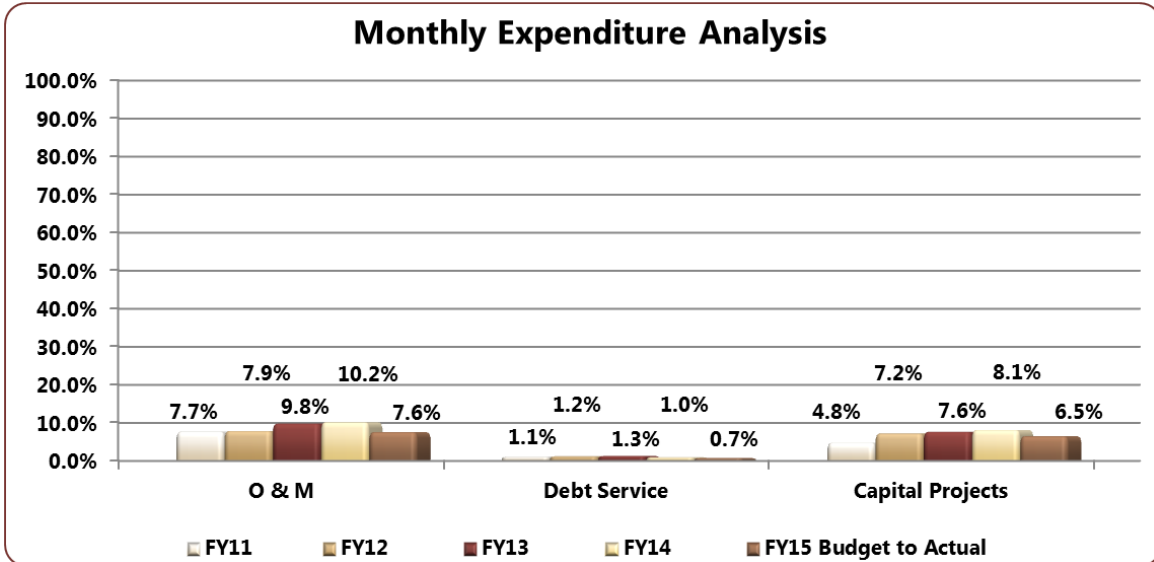
- Monthly domestic sewer revenue is considered reasonable based on timing of cash receipts in their respective fiscal periods.
- Monthly industrial sewer revenue is reasonable based on historical trends.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap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



YTD Actual Revenue Analysis:

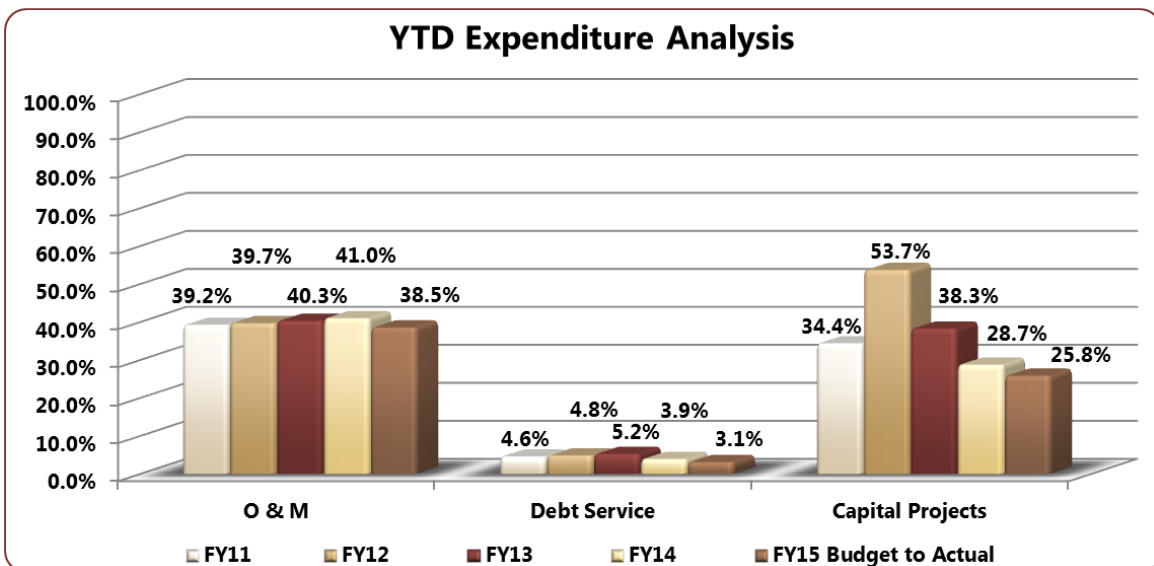
- YTD domestic sewer revenue is considered reasonable based on historical trends.
- YTD industrial sewer revenue is reasonable based on historical trends.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF EXPENDITURES
As of November 30, 2014**



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:

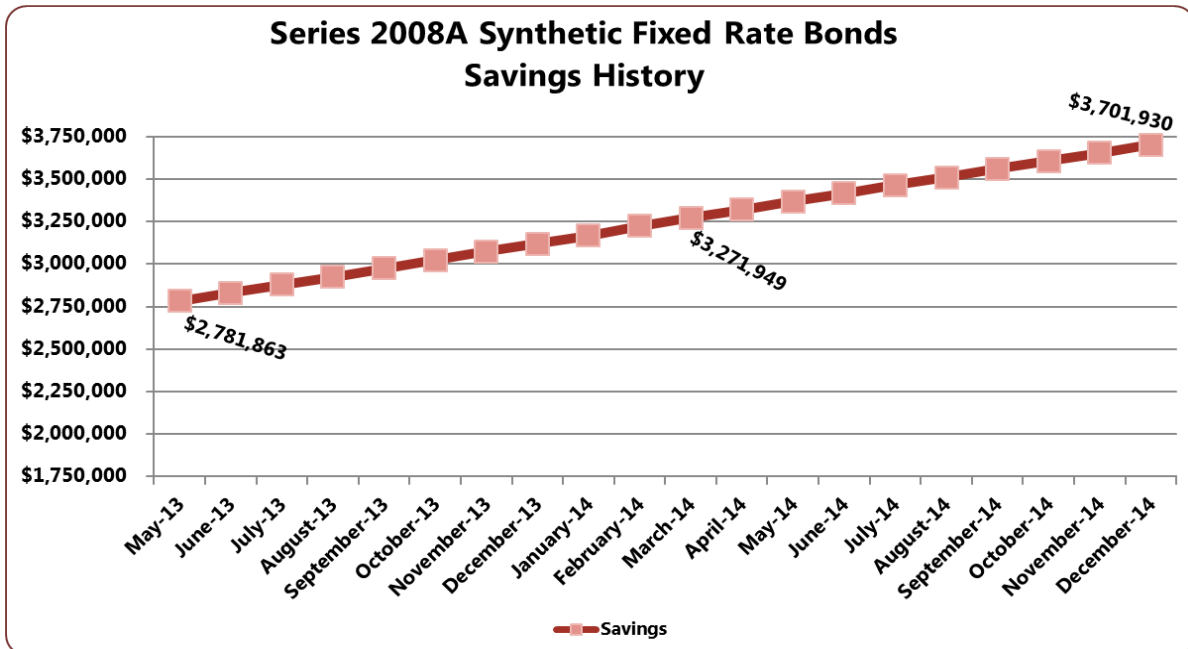
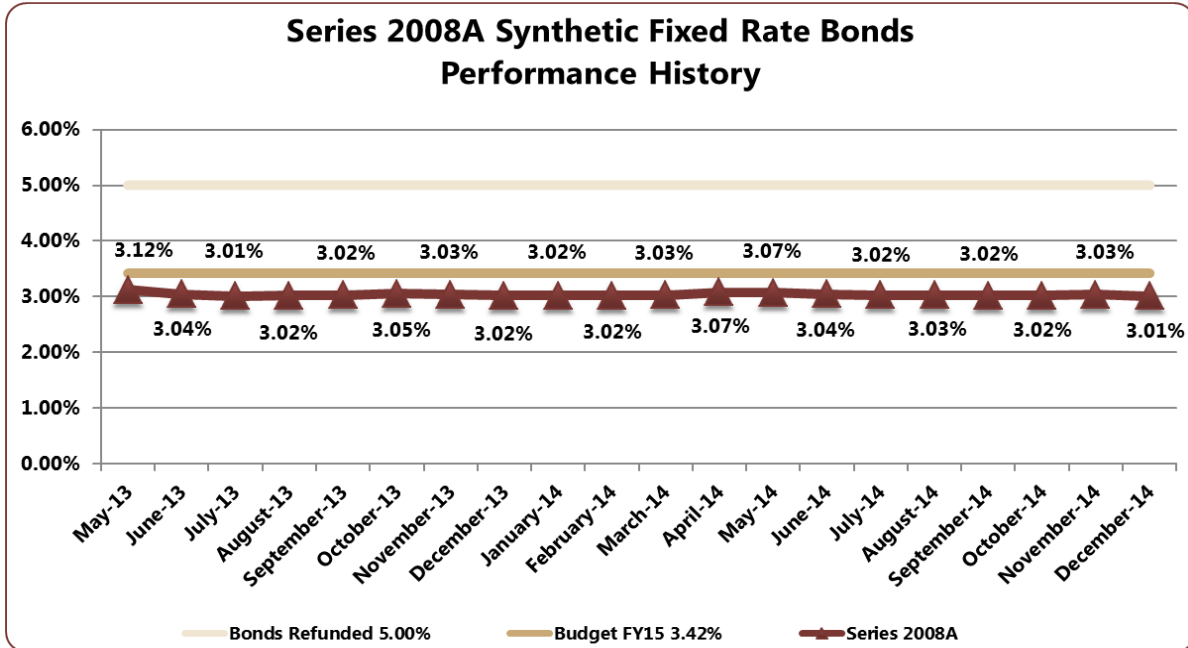
January 21, 2015

Subject:

Cash Commitment/Investment Report-Month Ended November 30, 2014

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**METROPOLITAN SEWERAGE DISTRICT
VARIABLE DEBT SERVICE REPORT
As of December 31, 2014**



Series 2008A:

- Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$3,701,930 as compared to 4/1 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 \$5,087,000 to terminate the existing Bank of America Swap Agreement.

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	470602	667	7/24/2014	415	complete
Shiloh Road	Asheville	350	7/15/14 - 7/31/14	456294	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	456301	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	470613	667	9/29/2014	220	complete
Terre Drive / Dunwood Road	N. Asheville	308	9/30/14 - 10/31/14	410100	667	10/20/2014	405	complete
Hickory Court	Arden/Royal Pines	1633	9/8/14 - 10/17/14	448319	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	372	complete
Sunset Drive @ Bee Tree Road	Swannanoa	1055	11/17/14 -1/7/15	219327	631	12/31/2014	1086	complete
Campus Drive (UNCA)	Asheville	335	1/5/15 - 2/5/15	210230	647			Construction has begun, Project 2010097
19 West Chapel Road	Asheville	126	1/8/14 - 1/16/14	215148	631			Construction beginning
165 Old County Home Road	Asheville/Leicester	1,100	2/6/15 - 4/1/15	433522	647			ready for construction
Rumbough Place	W. Asheville	710	1/19/14 - 2/16/14	201105	631			ready for construction
Sareva Place	N. Asheville	957	TBA	410095	TBA			ready for construction
Robindale Ave	Asheville	520	TBA	433537	TBA			ready for construction
18 Crestland Road	Asheville	270	TBA	448974	TBA			ready for construction
Deanwood Circle	Asheville	1292	TBA	400925	TBA			ready for construction - Project Number 2012030, CIP Transmittal 204
Starnes Avenue at Broadway Street	Asheville	400	TBA	400927	TBA			ready for construction
350 Old Haw Creek Road	Asheville	1333	TBA	400923	TBA			ready for construction
155 New Haw Creek Road	Asheville	TBA	TBA	456318	TBA			ready for construction
Carjen Avenue	Asheville	825	TBA	410096	TBA			ready for construction
East Grovestone Quarry	Black Mountain	780	TBA	457386	TBA			ready for construction
E Skyview Circle PSR	Woodfin	400	TBA	217301	TBA			In ROW
Biltmore Forest County Club Sewer Replacements Phase 2	Biltmore Forest	300	TBA	TBA	TBA			ready for construction
11 Old West Chapel	Asheville	TBA	TBA	TBA	TBA			Preliminary Design - CIP Transmittal 215
184 West Chestnut	Asheville	320	TBA	433541	TBA			Preliminary Design - Transmittal 196
Winnfred Street	W. Asheville	420	TBA	400928	TBA			Preliminary Design, Transmittal 218



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2014 to 11/30/2014

	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
Grand Totals	180	47	834	3,345	157	93	5,765	0	831	2948	42	2,805	6584

* Used to calculate Total Rehab Footage



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2014 to November 30, 2014

	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	42,031	2,136	3,299	45,277	24,495	3,650	24,813
October	90,846	1,472	9,854	100,694	35,690	0	3,549
November	61,000	1,208	4,631	65,631	16,007	10	12,239
Grand Total:	322,812	8,141	27,511	350,004	132,462	7,460	84,268
Avg Per Month:	64,562	1,628	5,502	70,001	26,492	1,492	16,854



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
		484	32	39
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
		133	27	21
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
		173	49	47
Grand Totals:		790	35	37

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

Right of Way Section 2nd Quarter Summary Open Projects

<i>Project</i>	<i>Total ROW Budget</i>	<i>Total Expends to Date</i>	<i>Comment</i>
Broadview Avenue GSR	\$33,814	\$12,907	Access 100% complete with 38% of Total Budget expended to date. One condemnation filed with judgment pending.
Dingle Creek Interceptor (formerly Ph II)	\$64,657	\$48,004	Access 100% complete with 74% of Total Budget expended to date. One condemnation filed with judgment pending. Construction moved out from 7/09, to 7/14, to 7/18 to 7/20.
East Skyland Circle PSR			This is a Private Sewer Rehabilitation project. Owners agree to grant easements for no compensation in exchange for MSD taking over the system.
Four Inch Main-Oakland Drive @ Pine Street GSR	\$24,859		Project just begun. Original plans included 3 esmts and 3 SLAs. Plans to be amended to add another eight-inch line. Will increase to 4 esmts and 4 SLAs.
Hendersonville Road @ Mills Gap Road GSR	\$268,384		Began negotiations October. Commercial properties with multiple owners/lessees out of state will make for lengthy signature process. Owner of largest tract is asking for an alignment revision.
Hilliard Avenue @ Aston Park GSR	\$35,754	\$25,471	Access 80% complete with 71% of Total Budget expended to date.
Melody Circle GSR	\$59,459	\$14,609	Access 16% complete with 25% of Total Budget expended to date.
Merrimon Avenue @ Stratford Road GSR	\$55,854	\$44,030	Access 100% complete with 79% of Total Budget expended to date. One condemnation filed. Out of court settlement approved by Board in December. Consent judgment pending.
Short Coxe @ Southside	\$165,652	\$163,632	Access 100% complete with 99% of Total Budget expended to date. Five condemnations/declaratory judgments filed. Four cases settled prior to trial. Final case pending mediation and trial.
Wendover Road GSR	\$17,656	\$6,721	Project 100% with 38% of Total Budget expended and no condemnations.

<i>Project</i>	<i>Total ROW Budget</i>	<i>Total Expends to Date</i>	<i>Comment</i>
West French Broad Interceptor Extension	\$179,993	\$179,993	Access 100% complete with 100% of Total Amended Budget expended to date. One condemnation filed with judgement pending. This is a developer driven, interceptor extension project; i.e. new encumbrances to the land where no sewer existed previously. An independent appraiser determined market values in the \$40,000 to \$65,000 per acre range could be reasonably expected, depending on any number of factors unique to a given parcel. We began negotiations using a mid-range of \$55,000 per acre. We acquired easements from the developer for \$0; and from three other parcels for \$33,000, \$67,500 and \$67,500 per acre. The fifth parcel, owned by the Asheville Firefighters Association, was appraised at \$54,000 per acre; however, the AFA would not agree to grant an easement and MSD therefore condemned.

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

January 14, 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	3/7/2015	\$1,111,015.90	25%	Raleigh Road complete. Crew starting up ROW toward Winston Avenue.
CLAYTON ROAD PUMP STATION	Skyland	J.S. Haren Company	11/19/2014	TBD	TBD	\$192,500.00	0%	No work has begun yet.
CROCKETT AVENUE PRP	Asheville	Terry Brothers	8/20/2014	11/17/2014	3/17/2015	\$676,842.00	10%	Contractor is working on dig and replace section; pipebursting going slowly.
EAST STATE STREET @ WEST STREET	Black Mountain	Davis Grading, Inc.	6/11/2014	7/14/2014	12/19/2014	\$403,640.00	98%	Contractor is finishing up punch list items.
FAIRFAX AVENUE PRP	W. Asheville	Terry Brothers	8/20/2014	10/22/2014	2/19/2015	\$558,802.00	85%	Contractor is renewing service lines.
MERRIMON AVENUE @ STRATFORD ROAD	Asheville	Terry Brothers	9/18/2013	12/16/2013	3/31/2015	\$885,849.00	80%	Elkwood Bore is almost complete; working on the last 5 feet. Will resume mainline construction when bore is complete.
MOUNT VERNON PLACE, PHASE 2	Asheville	Terry Brothers	6/11/2014	7/14/2014	2/1/2015	\$542,675.00	90%	Mainline construction is complete. Asphalt work is on hold until Spring, partnering with COA.
OLD HAYWOOD ROAD @ STARNES COVE ROAD	Asheville	Terry Brothers	10/15/2014	TBD	TBD	\$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	0%	Contractor has mobilized to the job site.
ROBINWOOD AVENUE	Asheville	Davis Grading, Inc.	9/17/2014	11/3/2014	2/1/2015	\$457,838.60	60%	Contractor is almost to MH # 10 on Evergreen, working through rock.
WENDOVER ROAD	Asheville	TBD	TBD	TBD	TBD	TBD	0%	Bids were opened on January 6th. Davis Grading is the apparent low bidder. Project will be presented at the January Board meeting.
SHADOWLAWN DRIVE PHASE I	Asheville	Buchanan & Sons	12/17/2014	TBD	TBD	\$923,946.00	0%	Project was awarded to Buchanan & Sons. Preconstruction meeting scheduled for January 22nd.
WRF - SLIDE GATE REPLACEMENT	Woodfin	NHM Constructors	9/18/2013	10/7/2013	1/31/2015	\$392,554.38	99%	All gates are complete and tested. Valve has been investigated and handled. Working on punch list items.

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

Planning & Development Project Status Report

January 14, 2014

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
Momentum Health Adventure	2008097	Asheville	Comm.	184	8/19/2009	New ownership - project currently inactive
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
Reems Creek Cottages	2013066	Weaverville	17	483	11/15/2013	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
Carmel Ridge Apartments	2013018	Leicester	80	1,162	10/11/2013	Complete-Waiting on final documents
Locust Springs	2012107	Black Mountain	18	621	3/14/2014	Complete-Waiting on final documents
Quail Hollow Ph. 2	2013062	Arden	15	1,302	6/11/2014	Complete-Waiting on final documents
Palisades Apartments	2013024	Asheville	224	1,423	9/4/2013	Complete-Waiting on final documents
STF Precision	2013084	Buncombe Co.	Comm.	199	5/29/2014	Construction complete awaiting final docs

Planning & Development Project Status Report

January 14, 2014

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
Ingles	2007214	Black Mtn.	Comm.	594	3/4/2008	Ready for final inspection
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
Publix	2013134	Asheville	Comm.	612	10/5/2014	Installing
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
The Aventure	2011015	Biltmore Forest	300	3,238	10/14/2013	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
Locust Springs	2012107	Black Mountain	18	621	3/14/2014	Testing
Telco - Weaverville	2014046	Weaverville	Comm.	110	5/12/2014	Ready for testing
Haywood Village	2014064	Asheville	Mixed	276	6/19/2014	Testing
Boulden Subdivision	2013022	Asheville	3	295	9/16/2014	Pre-con held, ready for construction
Busbee Mountain	2007181	Asheville	9	580	9/29/2014	Ready for final inspection
New Belgium Distribution Ctr.	2014044	Asheville	Comm.	1,620	11/11/2014	Pre-con held, ready for construction
Burk Street - Phase III	2014079	Asheville	7	111	11/20/2014	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
TOTAL			2,559	68,074		