

OFFERING MEMORANDUM

BOOK-ENTRY-ONLY

Commercial Paper Ratings

Moody's: P-1

S&P: A-1+

(See "Ratings" herein)

Maximum Aggregate Principal Amount

\$200,000,000

THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY (TENNESSEE) WATER AND SEWER REVENUE EXTENDABLE COMMERCIAL PAPER NOTES, 2015 PROGRAM

This Offering Memorandum is subject in all respects to more complete information contained in this Offering Memorandum and should not be considered to be a complete statement of the facts material to making an investment decision. The offering of the notes under the above referenced Water and Sewer Revenue Extendable Commercial Paper Notes, 2015 Program (the "ECP Notes") to potential investors is made only by means of the entire Offering Memorandum.

Issuer: The Metropolitan Government of Nashville and Davidson County (Tennessee) (the "Metropolitan Government")

Authorized Amount: Maximum amount outstanding at any time does not exceed \$200,000,000

Ratings: P-1 Moody's Investors Service, Inc.
A-1+ S&P Global Ratings

Security: Revenues of the Metropolitan Government's water and sewer system (the "System"), as more fully described herein, subject to senior and prior pledges of System revenues in favor of the Metropolitan Government's long-term water and sewer revenue bonds. The pledge of revenues in favor of the ECP Notes is on parity with a pledge of revenues in favor of the Metropolitan Government's Water and Sewer Revenue Commercial Paper Notes, Series 2022. The ECP Notes do not constitute a general debt or liability of the Metropolitan Government for which there is a right to compel the exercise of the taxing power of the Metropolitan Government. See "Security and Source of Payment" on page 6.

Purpose: Proceeds of the ECP Notes are used only to: (i) finance capital improvements to the System and (ii) refund or renew ECP previously issued under the ECP Program.

Original Maturity Date: A business day, from 1 to 90 days from the original date of issue

Extended Maturity Date: The Metropolitan Government has the option to extend the Original Maturity Date of an ECP Note to a business day that is 270 days from the original date of issue. The Metropolitan Government intends to exercise this option to extend the maturity only in circumstances where there is a disruption in market liquidity. An ECP Note may not be extended to a date after the final maturity date of the ECP Program, which is January 1, 2026.

Denominations: \$100,000 minimum principal amount and integral multiples of \$1,000 in excess thereof

Interest Payments: Interest on each ECP Note is payable on the Original Maturity Date; however, if the Original Maturity Date is extended, then interest is not payable on the Original Maturity Date. When the Original Maturity Date is extended, interest is payable monthly as set forth herein and on any redemption date or the Extended Maturity Date and no additional interest shall accrue on the accrued but unpaid interest.

Redemption: ECP Notes are not redeemable prior to the Original Maturity Date.
If the Original Maturity Date is extended—ECP Notes are subject to redemption in whole but not in part, on any date after the Original Maturity Date, at the option of the Metropolitan Government, prior to the Extended Maturity Date; provided, however, the Metropolitan Government must redeem all ECP Notes that have Extended Maturity Dates.

Tax Exemption: In the opinion of Bass, Berry & Sims PLC, Bond Counsel, based on existing law and assuming compliance with certain tax covenants of the Metropolitan Government, interest on the ECP Notes is excluded from gross income for federal income tax purposes pursuant to Section 103 of the Internal Revenue Code of 1986, as amended (the "Code"), and interest on the ECP Notes is not treated as an item of tax preference in calculating the alternative minimum tax imposed on individuals under the Code. For a more detailed explanation of certain tax consequences under federal law which may result from the ownership of the ECP Notes, see the discussion under the heading "TAX MATTERS" herein. Under existing law, the ECP Notes and the income therefrom will be exempt from all state, county and municipal taxation in the State of Tennessee, except Tennessee franchise and excise taxes. (See "TAX MATTERS" herein).

Issuing and Paying Agent: U.S. Bank National Association

Dealer: Morgan Stanley & Co. LLC

Bond Counsel: Bass, Berry & Sims PLC

Issuer Contact: Ms. Michell Bosch, Treasurer for the Metropolitan Government, 700 2nd Avenue South, Suite 205, Nashville, TN 37210, (615) 862-6154

Dated: January 7, 2022

This Offering Memorandum contains information concerning the Water and Sewer Revenue Extendable Commercial Paper Notes, 2015 Program (hereinafter referred to as the “ECP Program”) of The Metropolitan Government of Nashville and Davidson County (Tennessee) (the “Metropolitan Government”) to provide interim financing of capital improvements to the water and sewer system, as further described herein.

Under the ECP Program, certain notes of the Metropolitan Government may be issued and sold in the United States commercial paper market (the “ECP” or “ECP Notes”). The ECP Notes constitute bond anticipation notes and are payable primarily from the proceeds of subsequently issued ECP Notes and water and sewer revenue bonds of the Metropolitan Government. Additionally, the ECP Notes shall constitute and be limited obligations of the Metropolitan Government payable from and secured solely by a pledge of the Revenues of the System, subject to the prior pledge of such Revenues in favor of the Prior Lien Bonds, as such terms are defined and more fully explained herein. The pledge of Revenues in favor of the ECP Notes is on parity with a pledge of Revenues in favor of the Metropolitan Government’s Water and Sewer Revenue Commercial Paper Notes, Series 2022. The ECP Notes do not constitute a general debt or liability of the Metropolitan Government for which there is a right to compel the exercise of the taxing power of the Metropolitan Government.

The ECP Notes will be sold at par as interest-bearing obligations in minimum denominations of \$100,000 and integral multiples of \$1,000 in excess of such amount, with interest payable at maturity, unless the Metropolitan Government elects to extend the maturity of the ECP Notes, in which case interest on the ECP Notes shall be payable monthly through the Extended Maturity Date. The ECP Notes will have Original Maturity Dates, each being a business day, of not less than 1 day and not greater than 90 days from the original issue date of each ECP Note. The Metropolitan Government has the option to extend the Original Maturity Date of an ECP Note to a business day that is 270 days from the original issue date and not later than January 1, 2026, which is the final maturity date of the ECP Program.

The ECP Notes will be issued in book-entry-only form through The Depository Trust Company, New York, New York, (“DTC”). U.S. Bank National Association is Issuing and Paying Agent for the ECP Program.

The ECP Notes are being offered when, as, and if issued, subject to the legal opinion of Bass, Berry & Sims PLC, Nashville, Tennessee, Bond Counsel to the Metropolitan Government, substantially in the form attached to this Offering Memorandum as Appendix D. The ECP Notes are expected to be available for purchase and delivery through the facilities of DTC on and after January 11, 2022. Morgan Stanley & Co. LLC (“Dealer”) acts as the exclusive dealer in connection with the offering and issuance of the ECP Notes.

MORGAN STANLEY

No dealer, broker, salesperson or other person has been authorized to give information or to make any representation other than those contained in this Offering Memorandum, in connection with the offering of the ECP Notes, and, if given or made, such information or representation must not be relied upon as having been authorized by the Metropolitan Government, the Dealer or its respective consultants and attorneys. This Offering Memorandum does not constitute an offer or solicitation in any jurisdiction which such offer or solicitation is not authorized, or in which any person making such offer or solicitation is not qualified to do so, or to any person to whom it is unlawful to make such offer or solicitation. The information set forth herein has been obtained from the Metropolitan Government and other sources which are believed to be reliable, but is not guaranteed as to accuracy or completeness by, and it not to be construed as a representation by, the Dealer.

This Offering Memorandum is not to be construed as a contract with the purchaser of the ECP Notes. Statements contained in this Offering Memorandum which involve estimates, forecasts, or matters of opinion, whether or not expressly so described herein, are intended solely as such, and are not to be construed as a representation of fact. This Offering Memorandum contains "forward-looking" statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended. Such statements may involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance and achievements to be different from future results, performance and achievements expressed or implied by such forward-looking statements. Investors are cautioned that the actual results could differ materially from those set forth in the forward-looking statements.

The information and expressions of opinions contained herein are subject to change without notice, and neither the delivery of this Offering Memorandum nor any sale made hereunder will, under any circumstances, create any implication that there has been no change in the affairs of the Metropolitan Government since the date hereof.

All summaries herein of documents and agreements are qualified in their entirety by reference to such documents and agreements, and all summaries herein of the ECP Notes are qualified in their entirety by reference to the form thereof included in the Resolution (as defined herein), and the provisions with respect thereto included in the aforementioned documents and agreements.

THIS OFFERING MEMORANDUM IS INTENDED TO REFLECT MATERIAL FACTS AND CIRCUMSTANCES AS THEY EXIST ON THE DATE OF THIS OFFERING MEMORANDUM OR ON SUCH OTHER DATE OR AT SUCH OTHER TIME AS IDENTIFIED HEREIN. NO ASSURANCE CAN BE GIVEN THAT SUCH INFORMATION WILL NOT BE MISLEADING AT A LATER DATE. CONSEQUENTLY, RELIANCE ON THIS OFFERING MEMORANDUM AT TIMES SUBSEQUENT TO THE ISSUANCE OF THE ECP NOTES SHOULD NOT BE MADE ON THE ASSUMPTION THAT ANY SUCH FACTS OR CIRCUMSTANCES ARE UNCHANGED.

THE ECP NOTES HAVE NOT BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION ("SEC") BY REASON OF CERTAIN EXEMPTIONS CONTAINED IN THE SECURITIES ACT OF 1933, AS AMENDED. IN MAKING AN INVESTMENT DECISION, INVESTORS MUST RELY ON THEIR OWN EXAMINATION OF THE INFORMATION CONTAINED IN THIS OFFICIAL STATEMENT REGARDING THE METROPOLITAN GOVERNMENT, THE ECP NOTES AND THE TERMS OF THE OFFERING, INCLUDING THE MERITS AND RISKS INVOLVED. THESE SECURITIES HAVE NOT BEEN RECOMMENDED BY ANY FEDERAL OR STATE SECURITIES COMMISSION OR REGULATORY AUTHORITY, NOR HAVE SUCH AUTHORITIES CONFIRMED THE ACCURACY OR DETERMINED THE ACCURACY OF THIS DOCUMENT. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

THE MUNICIPAL ADVISOR HAS BEEN EMPLOYED BY THE METROPOLITAN GOVERNMENT TO ADVISE IT WITH RESPECT TO CERTAIN MATTERS RELATING TO THE PROPOSED STRUCTURE OF THE ECP PROGRAM. THE MUNICIPAL ADVISOR HAS NOT BEEN EMPLOYED AND ASSUMES NO DUTY OR OBLIGATION TO ADVISE ANY OTHER PARTY AS TO ANY ASPECT OF THE TRANSACTION, INCLUDING THE HOLDERS OF THE ECP NOTES.

THE DEALER HAS PROVIDED THE FOLLOWING SENTENCE FOR INCLUSION IN THIS OFFERING MEMORANDUM: THE DEALER HAS REVIEWED THE INFORMATION IN THIS OFFERING MEMORANDUM IN ACCORDANCE WITH, AND AS A PART OF, ITS RESPONSIBILITIES TO INVESTORS UNDER THE FEDERAL SECURITIES LAWS AS APPLIED TO THE FACTS AND CIRCUMSTANCES OF THIS TRANSACTION, BUT THE DEALER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION.

For additional information regarding the following, please contact:

Metropolitan Government

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Nashville, TN 37219
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Nashville, TN 37201
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Offering Memorandum

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Nashville, TN 37210
(615) 862-6154

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METROPOLITAN GOVERNMENT OFFICIALS, STAFF AND CONSULTANTS

Mayor and Metropolitan County Council

John Cooper – Mayor
Jim Shulman – Vice Mayor

Bob Mendes – Council Member At Large
Sharon Hurt – Council Member At Large
Burkley Allen – Council Member At Large
Steve Glover – Council Member At Large
Zulfat Suara – Council Member At Large
Jonathan Hall – District Council Member
Kyonzte Toombs – District Council Member
Jennifer Gamble – District Council Member
Robert Swope – District Council Member
Sean Parker – District Council Member
Brett Withers – District Council Member
Emily Benedict – District Council Member
Nancy VanReece – District Council Member
Tonya Hancock – District Council Member
Zach Young – District Council Member
Larry Hagar – District Council Member
Erin Evans – District Council Member
Russ Bradford – District Council Member
Kevin Rhoten – District Council Member
Jeff Syracuse – District Council Member

Ginny Welsch – District Council Member
Colby Sledge – District Council Member
Tom Cash – District Council Member
Freddie O’Connell – District Council Member
Mary Carolyn Roberts – District Council Member
Brandon Taylor – District Council Member
Gloria Hausser – District Council Member
Thom Druffel – District Council Member
Kathleen Murphy – District Council Member
Russ Pulley – District Council Member
Courtney Johnston – District Council Member
Robert Nash – District Council Member
Tanaka Vercher – District Council Member
Delishia Porterfield – District Council Member
Sandra Sepulveda – District Council Member
John Rutherford – District Council Member
Joy Styles – District Council Member
Antoinette Lee – District Council Member
Angie Henderson – District Council Member
Dave Rosenberg – District Council Member

Select Administrative Staff

Kelly Flannery – Director of Finance

Wallace Dietz – Director of Law

Austin Kyle – Interim Metropolitan Clerk

Michell Bosch – Treasurer

Consultants and Advisors

Metropolitan Government Counsel Metropolitan Department of Law
Nashville, Tennessee

Bond Counsel Bass, Berry & Sims PLC
Nashville, Tennessee

Municipal Advisor Hilltop Securities Inc.
Dallas, Texas

**OFFERING MEMORANDUM
RELATING TO**

**THE METROPOLITAN GOVERNMENT OF
NASHVILLE AND DAVIDSON COUNTY (TENNESSEE)**

**Maximum Aggregate Principal Amount
\$200,000,000**

**WATER AND SEWER REVENUE
EXTENDABLE COMMERCIAL PAPER NOTES
2015 PROGRAM**

INTRODUCTION

This Offering Memorandum, including the cover page and the Appendices (including the financial information referred to in the Appendices), is provided to furnish information in connection with the issuance from time to time by the Metropolitan Government of Nashville and Davidson County (Tennessee) (the "Metropolitan Government") of its Water and Sewer Revenue Extendable Commercial Paper Notes, 2015 Program (the "ECP Program"). Under the ECP Program, certain notes of the Metropolitan Government may be issued and sold in the United States commercial paper market (the "ECP" or "ECP Notes").

The ECP Notes are issued as bond anticipation notes pursuant to Chapter 21 of Title 9 of the Tennessee Code Annotated, as amended, the Charter of the Metropolitan Government (the "Charter"), and subject to the terms and conditions contained in the resolution authorizing the ECP Program adopted by the Metropolitan County Council on April 7, 2015, as amended and supplemented, as further amended by a resolution adopted by the Metropolitan County Council on December 21, 2021 (the "ECP Resolution"), authorizing an increase in the maximum principal amount of ECP Notes to \$200,000,000.

The proceeds of the ECP Notes will be used only to (i) finance capital improvements to the Metropolitan Government's water and sewer system (the "System") and (ii) refund or renew ECP previously issued under the ECP Resolution.

The Metropolitan Government has entered into the following agreements in connection with the ECP Program:

Issuing and Paying Agency Agreement (as it may be supplemented and amended, and together with any successor agreements, the "Issuing and Paying Agency Agreement") between the Metropolitan Government and U.S. Bank National Association (together with any successor, the "Issuing and Paying Agent").

Dealer Agreement (as amended and restated and as it may be further supplemented and amended, and together with any successor agreements, the "Dealer Agreement") between the Metropolitan Government and Morgan Stanley & Co. LLC, New York, New York (together with any successor, the "Dealer").

Brief descriptions of the ECP Program and the ECP Resolution are included in this Offering Memorandum or in an Appendix hereto. Such descriptions do not purport to be comprehensive or definitive, and all references herein to the ECP Program, the ECP Resolution, and various other documents and instruments mentioned herein, are qualified in their entirety by reference to the responsive documents or instrument, copies of which are available from the Metropolitan Government and the Dealer.

The ECP Notes will be issued as fully registered notes and registered in the name of Cede & Co., as registered owner and nominee for DTC. Beneficial ownership interests in the ECP Notes will be available in book-entry-only form and will be registered in the name of Cede & Co., as nominee of DTC. Purchases of the ECP Notes will be made in book-entry form through DTC. No physical delivery of the ECP Notes will be made to purchasers of the ECP Notes unless the book-entry-only system of registration is discontinued, or as may otherwise be provided herein. Payments on the ECP Notes will be made to holders by DTC through DTC Participants. See "THE ECP PROGRAM – BOOK-ENTRY-ONLY SYSTEM" herein.

The ECP Notes will be sold at par as interest-bearing obligations in minimum denominations of \$100,000 and integral multiples of \$1,000 in excess of such amount, with interest payable at maturity, unless the Metropolitan Government elects to extend the maturity of the ECP Note, in which case interest on the ECP Notes shall be payable monthly through the Extended Maturity Date. The ECP Notes will have Original Maturity Dates, each being a business day, of not less than 1 day and not greater than 90 days from the original issue date of each ECP Note. The Metropolitan Government has the option to extend the Original Maturity Date of an ECP Note to a business day that is 270 days from the original issue date and not later than January 1, 2026, which is the final maturity date of the ECP Program. As long as the ECP Notes are held by DTC or its nominee, interest will be paid to Cede & Co., as nominee of DTC, in next day funds on each interest payment date. See "THE ECP PROGRAM – BOOK-ENTRY-ONLY SYSTEM" herein.

All financial and other information presented in this Offering Memorandum has been compiled from records of the Metropolitan Government, except for information expressly attributed to other sources. All quotations from, and summaries and explanations of, provisions of statutes contained herein do not purport to be complete and are qualified in their entirety by reference to the official compilations thereof, and all references to the ECP Program and proceedings of the Metropolitan Government relating thereto are qualified in their entirety by reference to the form of the ECP Notes and such proceedings. Recent historical information does not indicate future or continuing trends in the Metropolitan Government's financial position or other affairs, unless specifically stated.

An electronic link to the Metropolitan Government's annual comprehensive financial report for the fiscal year ended June 30, 2021 is incorporated herein in Appendix A.

Certain financial and operating information related to the System is set forth in Appendix B. Certain demographic information of the Metropolitan Government is set forth in Appendix C. The form of opinion of Bond Counsel is attached hereto as Appendix D, and a summary of the ECP Resolution is attached as Appendix E. All terms capitalized herein but not defined herein shall have those meanings set forth in Appendix E attached hereto.

Investors should consider the entire Offering Memorandum in making an investment decision, and should not consider information more or less important because of its location. Investors should refer to laws, reports or other documents described in this Offering Memorandum for more complete information.

THE ECP PROGRAM

Authorization and Purpose of the ECP Program

The ECP Notes will be issued as bond anticipation notes by the Metropolitan Government pursuant to its Charter, the laws of the State of Tennessee (the "State"), particularly Tennessee Code Annotated Sections 9-21-101 *et. seq.* (the "Act") and the ECP Resolution. Proceeds of the ECP Notes will be used only to (i) finance capital improvements to the System and (ii) refund or renew ECP previously issued under the ECP Resolution.

Description of the ECP Notes

The ECP Notes will be dated the date of their respective authentication and issuance and are to be issued in book-entry-only form, in denominations of \$100,000 and in integral multiples of \$1,000 in excess of \$100,000. The ECP Notes are each to bear interest at an annual rate not to exceed the Maximum Rate allowed for the ECP Notes under the ECP Resolution. The Maximum Rate means, with respect to any ECP Note, the rate equal to the lesser of (a) 9% per annum, calculated on the basis of actual days elapsed and a 365/366 day year, or (b) the maximum rate of interest permitted by Section 47-14-103, Tennessee Code Annotated, or other applicable State law. Tennessee law currently prescribes a maximum rate equal to the prime rate in effect from time to time, plus 4.00%. The Maximum Rate in effect on the date hereof is 7.25%. The ECP Notes shall be sold by the Dealer pursuant to a Dealer Agreement at a price of not less than 100% of the principal amount thereof.

The ECP Notes will be issued as fully registered notes and registered in the name of Cede & Co., as registered owner and nominee for the DTC. Beneficial ownership interests in the ECP Notes will be available in book-entry-only form, and purchasers of the ECP Notes will not receive certificates representing their interests in the ECP Notes purchased. See "THE ECP PROGRAM – BOOK-ENTRY-ONLY SYSTEM" herein.

Each ECP Note will mature on its Original Maturity Date, which may range from 1 to 90 days from its original Issue Date as determined by the Metropolitan Government upon the issuance of the applicable ECP Note, unless the Metropolitan Government exercises its option to extend the maturity date. In that case, the ECP Note will mature on the Extended Maturity Date, which will be the business day that is the earlier of: (i) 270 days from its original Issue Date, and (ii) the Final Maturity Date of January 1, 2026. ECP Notes may bear different Issue Dates, Original Maturity Dates, Extended Maturity Dates and interest rates.

Each ECP Note shall bear interest from its Issue Date to its Original Maturity Date at an annual rate, which shall not in any event exceed the Maximum Rate, payable on its Original Maturity Date, unless the maturity date is extended, in which case interest will be paid on the dates described below.

If the Metropolitan Government exercises its option to extend the maturity date of an ECP Note, the ECP Note will bear interest from the Original Maturity Date at the applicable Extension Rate payable on the dates described below.

The Metropolitan Government may, from time to time, without the consent or notice to the Noteholders, amend certain provisions of the ECP Resolution, including, without limitation, amendments to the definitions of Maximum Rate or Extension Rate, that are only effective for ECP Notes issued on or after the effective date of such amendment with appropriate disclosure. The ECP Notes shall be sold by the Dealer pursuant to a Dealer Agreement at a price of not less than 100% of the principal amount thereof.

The ECP Notes will be issued as fully registered notes and registered in the name of Cede & Co., as registered owner and nominee for DTC. Beneficial ownership interests in the ECP Notes will be available in book-entry-only form, and purchasers of the ECP Notes will not receive certificates representing their interests in the ECP Notes purchased. See "APPENDIX D – SUMMARY OF ECP RESOLUTION" herein.

Extension of the Maturity Date

The Metropolitan Government is required to notify the Issuing and Paying Agent and Dealer by 11:30 a.m. (New York, New York time) on the Original Maturity Date that it wishes to exercise its option to extend the maturity of an ECP Note. The Issuing and Paying Agent shall correspondingly notify (i) DTC by 12:00 noon on the Original Maturity Date and (ii) each Rating Agency then maintaining a rating on the ECP Notes and EMMA by the close of business on the Original Maturity Date, that the maturity is being extended. Even if the requisite notices are not given by the Metropolitan Government and/or the Issuing and Paying Agent, if payment of the principal of and interest on an ECP Note does not occur on the Original Maturity Date, the maturity of the ECP Note shall be extended automatically. With the consent of the Issuing and Paying Agent and the Dealer, the Metropolitan Government may modify the notification provisions contained in the ECP Resolution if deemed appropriate to conform to DTC's rules and procedures. In no event shall an extension of the Original Maturity Date constitute a default or a breach of any covenant under the ECP Resolution.

If the Metropolitan Government exercises its option to extend the maturity of an issue of ECP Notes, then:

- (i) neither principal nor interest shall be paid on the Original Maturity Date for such issue of ECP Notes;
- (ii) the ECP Notes shall mature on the Extended Maturity Date;
- (iii) the ECP Notes shall bear interest from the Original Maturity Date at the Extension Rate;
- (iv) accrued but unpaid interest shall be paid on each Extended Period Interest Payment Date and on the Extended Maturity Date, and no additional interest shall accrue on the accrued but unpaid interest.

The Extension Rate shall be the rate of interest per annum determined by the following formula; provided that such Extension Rate shall not exceed the Maximum Rate:

The greater of (SIFMA Index + *E*) or *F*

The Extension Rate applicable to an ECP Note will be determined by the Issuing and Paying Agent based on the Prevailing Ratings and other information available as of 11:00 a.m. on the Original Maturity Date of the Note and each Thursday thereafter and will apply from that date through the following Wednesday or, if earlier, the applicable Extended Maturity Date. As used in the formula, the E and F variables shall be the fixed percentage rates, expressed in basis points and yields, respectively, determined based on the Prevailing Ratings of the Rating Agencies then rating the ECP Notes, as follows:

Prevailing Rating

Moody's	S&P	E Variable	F Variable
P-1	A-1+	250 basis points	7.00%
-	A-1	350 basis points	7.50%
P-2	A-2	550 basis points	8.00%
Lower than P-2 (or rating withdrawn for credit reasons)	Lower than A-2 (or rating withdrawn for credit reasons)	Maximum Rate	Maximum Rate

If the individual Prevailing Ratings indicate different E or F variables as a result of split ratings assigned to the Metropolitan Government, the E or F variable shall be the arithmetic average of those indicated by the Prevailing Ratings. If another credit rating agency becomes a Rating Agency, the Issuing and Paying Agent shall, upon written direction of the Metropolitan Government, following consultation with the Metropolitan Government and the Dealer, determine how the agency's rating categories shall be treated for the purpose of indicating an E or F variable.

Redemption of the ECP Notes

The ECP Notes shall not be subject to redemption prior to their Original Maturity Date. In the event the Metropolitan Government exercises its option to extend the maturity of an ECP Note, that ECP Note may be redeemed on any date after its Original Maturity Date, at the option of the Metropolitan Government at a redemption price equal to par, plus accrued and unpaid interest to the redemption date; provided that no ECP Note with an Extended Maturity Date shall be redeemed unless all ECP Notes then Outstanding that have been extended beyond their Original Maturity Date are redeemed simultaneously. To exercise its redemption option, the Metropolitan Government shall provide not less than 5 nor more than 25 calendar days' notice to the Issuing and Paying Agent. The Issuing and Paying Agent will notify DTC of the ECP Notes to be redeemed within one Business Day of receipt of such notice.

Book-Entry-Only System

This section describes how ownership of the ECP Notes is to be transferred and how the principal and interest on the ECP Notes are to be paid to and credited by DTC while the ECP Notes are registered in its nominee name. The information in this section concerning DTC and the Book-Entry-Only System has been provided by DTC for use in disclosure documents such as this Offering Memorandum. The Metropolitan Government believes the source of such information to be reliable, but takes no responsibility for the accuracy or completeness thereof.

The Metropolitan Government cannot and does not give any assurance that (1) DTC will distribute payments of debt service on the ECP Notes, or redemption or other notices, to DTC Participants, (2) DTC Participants or others will distribute debt service payments paid to DTC or its nominee (as the registered owner of the ECP Notes), or redemption or other notices, to the Beneficial Owners or that they will do so on a timely basis, or (3) DTC will serve and act in the manner described in this Offering Memorandum. The current rules applicable to DTC are on file with the SEC, and the current procedures of DTC to be followed in dealing with DTC Participants are on file with DTC.

DTC will act as securities depository for the ECP Notes. The ECP Notes will be issued as fully-registered securities registered in the name of Cede & Co. (DTC's partnership nominee) or such other name as may be requested by an authorized representative of DTC. One fully registered ECP Note will be issued for each

maturity of the ECP Notes in the aggregate principal amount of each such maturity and will be deposited with DTC.

DTC is a limited purpose trust company organized under the New York Banking Law, a “banking organization” within the meaning of the New York Banking Law, a member of the Federal Reserve System, a “clearing corporation” within the meaning of the New York Uniform Commercial Code and a “clearing agency” registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934. DTC holds and provides asset servicing for U.S. and non U.S. equity issues, corporate and municipal debt issues and money market instruments that DTC's participants (“Direct Participants”) deposit with DTC. DTC also facilitates the post trade settlement among Direct Participants of sales and other securities transactions in deposited securities, through electronic computerized book entry transfers and pledges between accounts of Direct Participants. This eliminates the need for physical movement of securities certificates. Direct Participants include both U.S. and non U.S. securities brokers and dealers, banks, trust companies, clearing corporations and certain other organizations.

DTC is a wholly owned subsidiary of The Depository Trust & Clearing Corporation (“DTCC”). DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others such as both U.S. and non U.S. securities brokers and dealers, banks, trust companies and clearing corporations that clear through or maintain a custodial relationship with a Direct Participant, either directly or indirectly (“Indirect Participants” and, together with the Direct Participants, the “DTC Participants”). The DTC Rules applicable to its Participants are on file with the Securities and Exchange Commission. More information about DTC can be found at www.dtcc.com.

Purchases of ECP Notes under the DTC system must be made by or through Direct Participants, which will receive a credit for ECP Notes on DTC's records. The ownership interest of each actual purchaser of each ECP Notes (“Beneficial Owner”) is in turn to be recorded on the Direct and Indirect Participants' records. Beneficial Owners will not receive written confirmation from DTC of their purchase. Beneficial Owners are, however, expected to receive written confirmations providing details of the transaction, as well as periodic statements of their holdings, from the Direct or Indirect Participant through which the Beneficial Owners entered into the transaction. Transfers of ownership interest in the ECP Notes are to be accomplished by entries made on the books of Direct and Indirect Participants acting on behalf of Beneficial Owners. Beneficial Owners will not receive certificates representing their ownership interests in the ECP Notes, except in the event that use of the book-entry system for the ECP Notes is discontinued.

To facilitate subsequent transfers, all ECP Notes deposited by Direct Participants with DTC are registered in the name of DTC's partnership nominee, Cede & Co., or such other name as may be requested by an authorized representative of DTC. The deposit of ECP Notes with DTC and their registration in the name of Cede & Co. or such other DTC nominee do not affect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the ECP Notes; DTC's records reflect only the identity of the Direct Participants to whose accounts such ECP Notes are credited, which may or may not be the Beneficial Owners. The Direct and Indirect Participants will remain responsible for keeping account of their holdings on behalf of their customers.

Conveyance of notices and other communications by DTC to Direct Participants, by Direct Participants to Indirect Participants, and by Direct Participants and Indirect Participants to Beneficial Owners will be governed by arrangements among them, subject to any statutory or regulatory requirements as may be in effect from time to time. Beneficial Owners of ECP Notes may wish to take certain steps to augment the transmission to them of notices of significant events with respect to the ECP Notes, such as redemptions, tenders, defaults, and proposed amendments to the ECP Program documents. For example, Beneficial Owners of ECP Notes may wish to ascertain that the nominee holding the ECP Notes for their benefit has agreed to obtain and transmit notices to Beneficial Owners. In the alternative, Beneficial Owners may wish to provide their names and addresses to the Registration Agent and request that copies of notices be provided directly to them.

Redemption notices shall be sent to DTC. If less than all of the ECP Notes within a maturity are being redeemed, DTC's practice is to determine by lot the amount of the interest of each Direct Participant in such issue to be redeemed.

Neither DTC nor Cede & Co. (nor any other DTC nominee) will consent or vote with respect to the ECP Notes unless authorized by a Direct Participant in accordance with DTC's MMI Procedures. Under its usual procedures, DTC mails an Omnibus Proxy to the Metropolitan Government as soon as possible after the record date. The Omnibus Proxy assigns Cede & Co.'s consenting or voting rights to those Direct Participants to whose accounts the ECP Notes are credited on the record date (identified in a listing attached to the Omnibus Proxy).

Redemption proceeds and principal of or interest on the ECP Notes will be made to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC. DTC's practice is to credit Direct Participants' accounts, upon DTC's receipt of funds and corresponding detail information from the Metropolitan Government or the Registration Agent, on payable dates in accordance with their respective holdings shown on DTC's records. Payments by Participants to Beneficial Owners will be governed by standing instructions and customary practices, as is the case with securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of such Participant and not of DTC, the Registration Agent or the Metropolitan Government, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of redemption proceeds and principal or interest to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC is the responsibility of the Metropolitan Government, disbursement of such payments to Direct Participants shall be the responsibility of DTC, and disbursement of such payments to the Beneficial Owners shall be the responsibility of Direct and Indirect Participants.

DTC may discontinue providing its services as securities depository with respect to the ECP Notes at any time by giving reasonable notice to the Metropolitan Government and the Registration Agent. Under such circumstances, in the event that a successor securities depository is not obtained, ECP Notes are required to be printed and delivered.

The Metropolitan Government may decide to discontinue use of the system of book-entry transfers through DTC (or a successor securities depository). In that event, the ECP Notes will be printed and delivered.

Use of Certain Terms in Other Sections of This Offering Memorandum

In reading this Offering Memorandum, it should be understood that while the ECP Notes are in the Book-Entry-Only System, references in other sections of this Offering Memorandum to registered owners should be read to include the person for which the Participant acquires an interest in the ECP Notes, but (i) all rights of ownership must be exercised through DTC and the Book-Entry-Only System, and (ii) except as described above, notices that are to be given to registered owners pursuant to the Resolution will be given only to DTC.

Information concerning DTC and the Book-Entry-Only System has been obtained from DTC and is not guaranteed as to accuracy or completeness by, and is not to be construed as a representation by the Metropolitan Government, the Municipal Advisor or the Dealer.

Effect of Discontinuance of Book-Entry-Only System

In the event that the Book-Entry-Only System is discontinued by DTC or the use of the Book-Entry-Only System is discontinued by the Metropolitan Government, printed ECP Notes will be issued to the holders and the ECP Notes will be subject to transfer, exchange and registration provisions as set forth in the ECP Resolution.

SECURITY AND SOURCE OF PAYMENT

Limited Obligations

The ECP Notes are payable primarily from the proceeds of subsequently issued ECP Notes and the proceeds of water and sewer revenue bonds of the Metropolitan Government (the "Bonds"). The ECP Notes are limited obligations of the Metropolitan Government additionally payable from and secured solely by a pledge of the Revenues of the System, subject to the application thereof pursuant to the Prior Lien Bond Resolutions, including (but not limited to) the payment of Operation and Maintenance Expenses, and subject to the prior pledge of such Revenues in favor of the Prior Lien Bonds (as such terms are defined herein). None of the ECP Notes constitute a debt or liability of the Metropolitan Government for which there is a right to compel the exercise of the taxing power of the Metropolitan Government. The pledge of the Revenues to the payment of the

ECP Notes is on a parity with the pledge thereof in favor of the Metropolitan Government's Water and Sewer Revenue Commercial Paper Notes, Series 2022 (the "Traditional Notes"), which Traditional Notes are authorized in a principal amount up to \$200,000,000.

The ECP Notes when duly issued will constitute a contract between the Metropolitan Government and each registered owner of the ECP Notes. Any registered owner or owner(s) of the ECP Notes, including a trustee or trustees for the registered owners, shall have the right, in addition to all other rights: (a) by mandamus or other suit, action or proceeding in any court of competent jurisdiction to enforce his or her rights against the Metropolitan Government and the Metropolitan Council and any officer, agent or employee of the Metropolitan Government, including, but not limited to, the right to require the Metropolitan Government and the Metropolitan Council and any proper officer, agent or employee of the Metropolitan Government to carry out the covenants and agreements set forth in the ECP Resolution and to perform its and their duties under the applicable provisions of Section 9-21-101 et seq. of the T.C.A.; and (b) by action or suit in equity to enjoin any acts or things which may be unlawful or a violation of the rights of such registered owners of the ECP Notes.

"Revenues" means (a) all revenues, income, rents, service fees and receipts properly allocable to the System resulting from ownership and operation of the System, excluding any customer deposits or other deposits subject to refund, unless such deposits have become property of the Metropolitan Government, (b) the proceeds of any insurance covering business interruption loss relating to the System and (c) interest received or to be received on any moneys or securities held in any of the funds or accounts established by the Prior Lien Bond Resolutions, with the exception of (i) moneys held in any Construction Fund established under the Prior Lien Bond Resolutions, or any account thereof and (ii) moneys held in any Debt Service Reserve Fund established under the Prior Lien Bond Resolutions during any period in which the investment earnings thereon are directed by resolution supplemental thereto to any Construction Fund established under the Prior Lien Bond Resolutions, or any account thereof. The computation of Revenues with respect to any period of time hereunder shall be increased by the amount of transfers during such period from the Rate Stabilization Fund (as defined in the Water and Sewer Bond Resolution) to the Revenue Fund described in the Prior Lien Bond Resolutions pursuant to Section 509(a) of the Water and Sewer Bond Resolution, and decreased by the amount of any transfers during such period from the Revenue Fund to the Rate Stabilization Fund pursuant to Section 506(e) of the Water and Sewer Bond Resolution. "Revenues" shall not include any Tax Credit Payments (as defined in the Prior Lien Bond Resolutions), grant proceeds or, except as set forth in (b) above, insurance proceeds. "Operation and Maintenance Expenses" shall mean the current expenses, paid or accrued, of operation, maintenance and repair of the System, including administration costs, as calculated in accordance with generally accepted accounting principles. Notwithstanding the foregoing, Operation and Maintenance Expenses shall not include payments in lieu of taxes or any reserve for renewals or replacements or any allowance for depreciation or amortization, and there shall be included in Operation and Maintenance Expenses only that portion of the total administrative, general and other expenses of the Metropolitan Government which are properly allocable to the System. See Appendix E – Summary of ECP Resolution.

ECP Notes Subordinate to Bonds

Prior Lien Bonds

The pledge of the Revenues in favor of the ECP Notes is subject and subordinate to a prior pledge of the Revenues to the payment of the Metropolitan Government's outstanding Water and Sewer Revenue Bonds Federally Taxable, Series 2010B (Build America Bonds – Direct Payment); Water and Sewer Revenue Bonds Federally Taxable, Series 2010C (Recovery Zone Economic Development Bonds); Water and Sewer Revenue Bonds, Series 2013; Water and Sewer Revenue Bonds, Series 2017A (Green Bonds); Water and Sewer Revenue Bonds, Series 2017B; Water and Sewer Revenue Bonds, Series 2020A; Water and Sewer Revenue Bonds, Series 2020B; State Revolving Fund Loans Nos. 2020-223, 2020-224 and 2020-446; Water and Sewer Revenue Bonds, Series 2021A (Green Bonds) and Federally Taxable Water and Sewer Revenue Refunding Bonds, Series 2021B (Green Bonds), and any other debt obligations hereafter issued by the Metropolitan Government pursuant to the Prior Lien Bond Resolutions (collectively, the "Prior Lien Bonds"). The application of Revenues pursuant to the terms of the ECP Resolution is subject to the prior application of the Revenues to certain funds and accounts pursuant to the Prior Lien Bond Resolutions authorizing the Prior Lien Bonds, as described more fully below. (see "DEBT SERVICE REQUIREMENTS").

Additional Prior Lien Bonds

The Prior Lien Bonds consist of bonds, notes and other debt obligations issued pursuant to the Water and Sewer Bond Resolution and the Subordinate Lien Bond Resolution. As of the date hereof, there are no Subordinate Lien Bonds outstanding pursuant to the Subordinate Lien Bond Resolution, but Subordinate Lien Bonds may be hereafter issued by the Metropolitan Government on a basis subordinate to the Water and Sewer Bonds and senior to the ECP Notes upon certain terms provided in the Subordinate Lien Bond Resolution. Similarly, additional Water and Sewer Bonds may be hereafter issued pursuant to the Water and Sewer Bond Resolution upon certain terms provided in the Water and Sewer Bond Resolution. The Water and Sewer Bond Resolution and the Subordinate Lien Bond Resolution are collectively referred to herein as the “Prior Lien Bond Resolutions.”

The Prior Lien Bond Resolutions permit the Metropolitan Government to issue additional series of Bonds on a parity and equality of lien, as to the Revenues, with the Prior Lien Bonds if, among other things, the Metropolitan Government certifies that the Revenues for any twelve (12) consecutive month period within the twenty-four (24) consecutive months immediately preceding the date of issuance of the additional Bonds were at least equal to the greater of (1) 120% of the maximum Debt Service Requirement on the Water and Sewer Bonds in any future Fiscal Year, and (2) 110% of the maximum Debt Service Requirement on the Prior Lien Bonds and any other indebtedness of the Metropolitan Government payable from and secured by Revenues, including commercial paper, in any future Fiscal Year. The Water and Sewer Bond Resolution prohibits the future issuance of any debt obligations secured by a pledge of any portion of the Revenues on a basis senior to the Water and Sewer Bonds (See “DEBT SERVICE REQUIREMENTS”).

Rate Covenant

The Water and Sewer Bond Resolution requires the Metropolitan Government to set and maintain rates sufficient to produce Revenues in each Fiscal Year at least equal to the greater of (i) 120% of the Debt Service Requirement on the Water and Sewer Bonds in such Fiscal Year; or (ii) 100% of the sum of (A) the Debt Service Requirement on the Prior Lien Bonds and any other indebtedness of the Metropolitan Government payable from and secured by Revenues, including commercial paper in such Fiscal Year, (B) the amounts required to be paid during such Fiscal Year into the debt service reserve fund established by the Water and Sewer Bond Resolution, and (C) the amount of all other charges and liens whatsoever payable out of Revenues during such Fiscal Year, including, but not limited to, payments in lieu of taxes.

Par Amount of Bonds Outstanding

As described above, the ECP Notes are payable from Revenues on a subordinate basis to the Prior Lien Bonds. The total par amount of the outstanding Prior Lien Bonds is \$1,325,718,000. Additional Bonds may be issued on parity of lien with the Prior Lien Bonds in the manner provided above.

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DEBT SERVICE REQUIREMENTS

The following table details the total annual debt service requirements for the Prior Lien Bonds.

Fiscal Year	Prior Lien Bonds ⁽¹⁾
2022	\$ 1,058,271
2023	83,204,482
2024	83,195,459
2025	83,196,152
2026	83,180,977
2027	83,159,768
2028	83,169,493
2029	83,978,123
2030	83,957,628
2031	83,925,669
2032	83,896,616
2033	83,870,233
2034	83,846,732
2035	83,855,732
2036	83,892,830
2037	83,932,225
2038	83,955,452
2039	83,981,321
2040	83,994,929
2041	83,984,023
2042	83,994,787
2043	62,897,539
2044	62,898,200
2045	48,371,300
2046	48,379,975
2047	37,109,950
2048	20,333,931
2049	20,333,294
2050	20,329,925
2051	20,333,431
2052	20,333,419
	\$2,036,551,865

⁽¹⁾ Net of subsidy after accounting for 5.7% sequestration effect

FUTURE CAPITAL NEEDS

Under a consent decree among the Metropolitan Government, the Tennessee Department of Environment and Conservation (“TDEC”) and the United States Environmental Protection Agency (“EPA”), the Metropolitan Government is obligated to make future capital expenditures to address and correct deficiencies within the System in an approximate amount of \$1 billion to \$1.5 billion over an eleven-year period, which period shall begin upon the approval of plans previously submitted by the Metropolitan Government (the “Consent Decree”).

The Consent Decree required that the Metropolitan Government fully develop a Corrective Action Plan/Engineering Report (“CAP/ER”) for its sanitary sewer system and a Long-Term Control Plan (“LTCP”) for its combined sewer system to achieve the goals of the Clean Water Act (“CWA”). Both the CAP/ER and LTCP were submitted on time to the EPA and TDEC in September 2011. On August 10, 2017, the EPA approved the CAP/ER and the eleven (11) year timeline to complete the work, which is currently in progress.

The Metropolitan Government, TDEC, and the EPA have had discussions of potential changes with respect to the LTCP, but little would be considered drastic or material to what was submitted. The LCTP has not yet been officially approved. The deadline for final compliance of the Consent Decree is eleven (11) years after final formal approval of the two plans. The Metropolitan Government expects to fund these expenditures primarily through long-term borrowings as well as Revenues of the System.

See Appendix C attached hereto for additional information regarding the Consent Decree and the required capital expenditures regarding the System.

As part of its capital improvement plan for the System for years 2021 through 2025, the Metropolitan Government plans to spend an additional amount of approximately \$1.04 billion for capital projects for the System (not including projects related to the Consent Decree). These capital projects are also expected to be primarily funded with commercial paper, long-term borrowings, and System revenues. Additional information regarding the capital improvement plan and the required capital expenditures can be found in Appendix B hereof.

LITIGATION

At the time of the original delivery of the ECP Notes, there will be furnished a certificate of certain officers of the Metropolitan Government stating that except as disclosed in the Offering Memorandum there is no litigation then pending, or to their knowledge threatened, restraining, enjoining, or adversely affecting the issuance or delivery of the ECP Notes, the fixing or collecting of rates and charges for the services of the System, the proceedings and authority under which the ECP Notes are to be issued or which affect in any way the validity of the ECP Notes.

The Metropolitan Government, like other similar bodies, is a party to various lawsuits in the normal course of business. It is the opinion of the Director of Law of the Metropolitan Government that there is no pending litigation against the Metropolitan Government that, if decided adversely to the Metropolitan Government, would have a material adverse financial impact upon the Metropolitan Government or its operations.

TAX MATTERS

Federal Taxes

Bass, Berry & Sims PLC, Nashville, Tennessee, is Bond Counsel for the ECP Notes. Their opinion under existing law, relying on certain statements by the Metropolitan Government and assuming compliance by the Metropolitan Government with certain covenants, is that interest on the ECP Notes is excluded from gross income for federal income tax purposes pursuant to Section 103 of the Internal Revenue Code of 1986, as amended (the "Code"), and interest on the ECP Notes is not treated as an item of tax preference in calculating the alternative minimum tax imposed on individuals under the Code.

The Code imposes requirements on the ECP Notes that the Metropolitan Government must continue to meet after the ECP Notes are issued. These requirements generally involve the way that ECP Note proceeds must be invested and ultimately used. If the Metropolitan Government does not meet these requirements, it is possible that an ECP Note holder may have to include interest on the ECP Notes in its federal gross income on a retroactive basis to the date of issue. The Metropolitan Government has covenanted to do everything necessary to meet these requirements of the Code.

An ECP Note holder who is a particular kind of taxpayer may also have additional tax consequences from owning the ECP Notes. This is possible if an ECP Note holder is:

- an S corporation,
- a United States branch of a foreign corporation,
- a financial institution,
- a property and casualty or a life insurance company,
- an individual receiving Social Security or railroad retirement benefits,

- an individual claiming the earned income credit or
- a borrower of money to purchase or carry the Commercial Paper.

If an ECP Note holder is in any of these categories, it should consult its tax advisor.

Bond Counsel is not responsible for updating its opinion in the future. It is possible that future events or changes in applicable law could change the tax treatment of the interest on the ECP or affect the market price of the ECP. See also "Changes in Federal and State Tax Law" below in this heading.

Bond Counsel expresses no opinion on the effect of any action taken or not taken in reliance upon an opinion of other counsel on the federal income tax treatment of interest on the ECP, or under State, local or foreign tax law.

State Taxes

Under existing law, the ECP Notes and the income therefrom are exempt from all present state, county and municipal taxes in Tennessee except (a) Tennessee excise taxes on interest on the ECP Notes during the period the ECP Notes are held or beneficially owned by any organization or entity, or other than a sole proprietorship or general partnership doing business in the State of Tennessee, and (b) Tennessee franchise taxes by reason of the inclusion of the book value of the ECP Notes in the Tennessee franchise tax base of any organization or entity, other than a sole proprietorship or general partnership, doing business in the State of Tennessee.

Changes in Federal and State Tax Law

From time to time, there are Presidential proposals, proposals of various federal committees, and legislative proposals in the Congress and in the states that, if enacted, could alter or amend the federal and state tax matters referred to herein or adversely affect the marketability or market value of the ECP or otherwise prevent holders of the ECP from realizing the full benefit of the tax exemption of interest on the ECP. Further, such proposals may impact the marketability or market value of the ECP simply by being proposed. It cannot be predicted whether or in what form any such proposal might be enacted or whether if enacted it would apply to ECP Notes issued prior to enactment. In addition, regulatory actions are from time to time announced or proposed and litigation is threatened or commenced which, if implemented or concluded in a particular manner, could adversely affect the market value, marketability or tax status of the ECP. It cannot be predicted whether any such regulatory action will be implemented, how any particular litigation or judicial action will be resolved, or whether the ECP would be impacted thereby. Purchasers of the ECP Notes should consult their tax advisors regarding any pending or proposed legislation, regulatory initiatives or litigation. The opinions expressed by Bond Counsel are based upon existing legislation and regulations as interpreted by relevant judicial and regulatory authorities as of the date of issuance and delivery of the ECP Notes, and Bond Counsel has expressed no opinion as of any date subsequent thereto or with respect to any proposed or pending legislation, regulatory initiatives or litigation.

LEGAL OPINION

The validity of the ECP will be approved by Bass, Berry & Sims PLC, Nashville, Tennessee, Bond Counsel. For the form of proposed Bond Counsel opinion, which includes certain assumptions as to future acts by the Metropolitan Government, see Appendix D.

FINANCIAL INFORMATION

The Metropolitan Government is not required to file reports with the S.E.C. in connection with the ECP. In connection with the issuance of the ECP, the Metropolitan Government will not agree to provide any "annual financial information" (within the meaning of S.E.C. Rule 15c-12) or any other information or notices required by Rule 15c2-12 to the MSRB. However, the Metropolitan Government has agreed to provide such "annual financial information" and other information and notices required by S.E.C. Rule 15c2-12 to the Electronic Municipal Market Access of the Municipal Securities Rulemaking Board ("EMMA") in connection with the issuance of its various outstanding water and sewer revenue bonds, and such information is available

from the EMMA (www.emma.msrb.org) as long as the Metropolitan Government has outstanding water and sewer revenue bonds.

Audited financial statements of the Metropolitan Government and certain supplementary information for the fiscal year ended June 30, 2021, are also available through the website of the Metropolitan Government's Department of Finance at https://www.nashville.gov/sites/default/files/2021-12/ACFR_2021.pdf?ct=1640205985. Such audited financial statements and supplementary information are additionally available from the Metropolitan Government upon request sent to the Treasurer of the Metropolitan Government through the website of hubNashville at https://hub.nashville.gov/s?language=en_US. To the extent there are any differences between the financial statements posted on the Department of Finance's website or sent by the Treasurer of the Metropolitan Government and the financial statements filed with EMMA, the statements filed with EMMA shall control.

This Offering Memorandum is not a summary of the terms of the ECP, and information essential to the making of an informed decision with respect to the ECP may be obtained in the manner described above. All references to documents and other materials not purporting to be quoted in full are qualified in their entirety by reference to the complete provisions of the documents and other materials referenced. The information and expressions of opinion in this Offering Memorandum are subject to change without notice, and future use of this Offering Memorandum shall not create any implication that there has been no change in the matters described herein since the date hereof.

RATINGS

Moody's Investors Service, Inc. and S&P Global Ratings have assigned ratings of "P-1" and "A-1+", respectively, to the ECP. The ratings reflect only the respective views of such organizations, and the Metropolitan Government makes no representation as to the appropriateness of the ratings. Any explanation of the significance of the ratings may be obtained only from the respective rating agency furnishing the same at the following addresses: Moody's Investors Services, Inc., 7 World Trade Center at 250 Greenwich Street, New York, NY 10007; S&P Global Ratings, 55 Water Street, New York, New York 10041. The Metropolitan Government furnished to each rating agency certain information and materials, some of which may not have been included in this Offering Memorandum, relating to the Metropolitan Government and its outstanding debt. Generally, rating agencies base their ratings upon such information and materials and upon investigations, studies and assumptions by the ratings agencies. There is no assurance that such ratings will continue for any given period of time or that they will not be revised downward or withdrawn entirely by any or all of such rating companies, if in the judgment of any or all companies, circumstances so warrant. Any such downward revision or withdrawal of such ratings, or any of them, may have an adverse effect on the market price of the ECP.

Additionally, due to the ongoing uncertainty regarding the debt of the United States of America, including without limitation, the general economic conditions in the country, and other political and economic developments that may affect the financial condition of the United States government, the United States debt limit, and the bond ratings of the United States and its instrumentalities, obligations issued by state and local governments, such as the ECP, could be subject to a rating downgrade. Furthermore, if a significant default or other financial crisis should occur in the affairs of the United States or of any of its agencies or political subdivisions, then such event could also adversely affect the market for and ratings, liquidity, and market value of outstanding debt obligations, such as the ECP.

MUNICIPAL ADVISOR

Hilltop Securities Inc. is employed as Municipal Advisor to the Metropolitan Government in connection with the issuance of the ECP. The Municipal Advisor's fees for services rendered with respect to the sale of the ECP are contingent upon the issuance and delivery of the ECP. Hilltop Securities Inc., in its capacity as Municipal Advisor, has relied on the opinion of Bond Counsel and has not verified and does not assume any responsibility for the information, covenants and representations contained in any of the legal documents with respect to the federal income tax status of the ECP or the possible impact of any present, pending or future actions taken by any legislative or judicial bodies. In the normal course of business, Hilltop Securities Inc. may from time to time sell investment securities to the Metropolitan Government for the investment of bond proceeds or other funds of the Metropolitan Government upon the request of the Metropolitan Government.

The Municipal Advisor has provided the following sentence for inclusion in this Offering Memorandum: The Municipal Advisor has reviewed the information in this Offering Memorandum in accordance with, and as part of, its responsibilities to the Metropolitan Government and, as applicable, to investors under the federal securities laws as applied to the facts and circumstances of this transaction, but the Municipal Advisor does not guarantee the accuracy or completeness of such information.

DEALER

The Metropolitan Government has appointed Morgan Stanley & Co. LLC (the “Dealer”) to serve as dealer for the ECP Notes. Adams and Reese LLP has been retained as counsel to the Dealer in connection with the issuance of the ECP Notes. Under the Amended and Restated Dealer Agreement, dated as of January 1, 2022, by and between the Metropolitan Government and the Dealer, the Dealer has no commitment to purchase any of the ECP Notes, but is obligated only to use best efforts as agents of the Metropolitan Government to solicit and arrange sales of the ECP Notes on behalf of the Metropolitan Government. Inquiries to the Dealer may be directed to the following:

Morgan Stanley
1585 Broadway
New York, New York 10036
Attn: Municipal Short Term Products
Tel: (212) 761-9093
Fax: (212) 507-2103
Email: short-term-notice@morganstanley.com

INDEPENDENT AUDITORS

An electronic link to the Metropolitan Government's annual comprehensive financial report for the fiscal year ended June 30, 2021 is included in Appendix A, and such financial statements have been audited by Crosslin & Associates, independent auditors, as stated in its report.

Crosslin & Associates has not been engaged to perform and has not performed, since the date of its report included herein, any procedure on the financial statements addressed in that report and has not performed any procedures relating to this Offering Memorandum.

FORWARD-LOOKING STATEMENTS

The statements contained in this Offering Memorandum, and in any other information provided by the Metropolitan Government, that are not purely historical, are forward-looking statements, including certain statements regarding the Metropolitan Government’s expectations, hopes, intentions, or strategies regarding the future. Readers should not place undue reliance on forward-looking statements. All forward-looking statements included in this Offering Memorandum are based on information available to the Metropolitan Government on the date hereof and the Metropolitan Government assumes no obligation to update any such forward-looking statements. It is important to note that the Metropolitan Government’s actual results could differ materially from those in such forward-looking statements.

The forward-looking statements herein necessarily are based on various assumptions and estimates and inherently are subject to various risks and uncertainties, including risks and uncertainties relating to the possible invalidity of the underlying assumptions and estimates and possible changes or developments in social, economic, business, industry, market, legal and regulatory circumstances and conditions and actions taken or omitted to be taken by third parties, including customers, suppliers, business partners and competitors, and legislative, judicial and other governmental authorities and officials. Assumptions related to the foregoing involve judgments with respect to, among other things, future economic, competitive and market conditions and future business decisions, all of which are difficult or impossible to predict accurately and many of which are beyond the control of the Metropolitan Government. Any of such assumptions could be inaccurate and, therefore, there can be no assurance that the forward-looking statements included in this Offering Memorandum will prove to be accurate.

In considering the matters set forth in this Offering Memorandum, prospective investors should carefully review all information included herein (particularly the information under this caption) to identify any investment considerations. Potential investors should be thoroughly familiar with this entire Offering Memorandum and the appendices hereto, and should have accessed whatever additional financial and other information any such investor may deem necessary, prior to making an investment decision with respect to the ECP.

MISCELLANEOUS INFORMATION

The references, excerpts and summaries of all documents referred to in this Offering Memorandum and in the Appendices to this Offering Memorandum do not purport to be complete statements of the provisions of such documents, and reference is directed to all such documents for full and complete statements of all matters of fact relating to the ECP, the security for the payment of the ECP and the rights and obligations of the holders thereof.

Any statements made in this Offering Memorandum involving matters of opinion or of estimates, whether or not so expressly stated, are set forth as such and not as representations of fact, and no representation is made that any of the estimates will be realized. Neither this Offering Memorandum nor any statement, which may have been made verbally or in writing, is to be construed as a contract with the holders of the ECP.

The information contained in this Offering Memorandum has been compiled from sources deemed to be reliable, and while not guaranteed as to completeness or accuracy, is believed to be correct as of this date.

AUTHORIZATION OF OFFERING MEMORANDUM

The execution and distribution of this Offering Memorandum have been duly authorized by the Metropolitan Government.

**THE METROPOLITAN GOVERNMENT OF
NASHVILLE AND DAVIDSON COUNTY**

By: /s/ John Cooper
Metropolitan Mayor

APPENDIX A

**ELECTRONIC LINK TO ANNUAL COMPREHENSIVE FINANCIAL REPORT FOR THE METROPOLITAN GOVERNMENT
FOR THE FISCAL YEAR ENDED JUNE 30, 2021**

General Purpose Financial Statements

Audited Financial Statements of the Metropolitan Government and supplementary information as of and for the fiscal year ending June 30, 2021, together with the independent auditors' report from Crosslin & Associates, are available through the website of the Metropolitan Government's Department of Finance at https://www.nashville.gov/sites/default/files/2021-12/ACFR_2021.pdf?ct=1640205985 and are hereby incorporated by reference as part of this Appendix A. To the extent there are any differences between the electronically posted financial statements of the Metropolitan Government and the printed financial statements of the Metropolitan Government, the printed version shall control.

Crosslin & Associates has not been engaged to perform and has not performed, since the date of its report included herein, any procedure on the financial statements addressed in that report and has not performed any procedures relating to this Offering Memorandum.

APPENDIX B

FINANCIAL AND OPERATING INFORMATION REGARDING THE WATER AND SEWER SYSTEM

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES**

The following table illustrates a summary of the revenues, operating expenses, debt service and unrestricted fund balances for the Metropolitan Government of Nashville and Davidson County's water and sewer system (the "System") for Fiscal Year 2017 through Fiscal Year 2021. The following table is not necessarily indicative of the future financial performance of the System.

**HISTORICAL STATEMENT OF REVENUES, OPERATING EXPENSES,
DEBT SERVICE AND UNRESTRICTED FUND BALANCES
(For the Fiscal Years Ending June 30, 2017, through June 30, 2021)**

<u>REVENUES:</u>	2017	2018	2019	2020	2021
Operating Water Revenues ⁽¹⁾	\$68,360,281	\$67,485,050	\$68,214,183	\$85,545,380	\$110,948,734
Operating Sewer Revenues ⁽¹⁾	145,254,682	148,389,200	152,625,516	171,825,505	195,414,688
Non-Operating Revenues	6,349,198	2,963,497	13,110,896	9,098,930	5,085,501
TOTAL REVENUES	\$219,964,161	\$226,804,486	\$233,950,595	\$266,469,815	\$311,448,923
<u>OPERATING EXPENSES:</u>					
Less Depreciation and Amortization	\$112,654,492	\$113,857,694	\$111,335,275	\$132,611,031	\$108,824,451
NET REVENUES ⁽²⁾	\$107,309,669	\$112,946,792	\$122,615,320	\$133,858,784	\$202,624,472
<u>DEBT SERVICE:</u>					
Prior First Lien Bonds	\$15,927,469	\$15,095,013	\$15,024,438	-	-
Outstanding Second Lien Bonds ⁽³⁾⁽⁴⁾	32,430,176	42,539,399	50,301,108	\$47,134,077	\$56,262,593
Subordinate Lien Bonds ⁽⁵⁾	22,789,625	21,742,375	20,766,500	19,844,125	18,260,500
TOTAL DEBT SERVICE	\$71,147,269	\$79,376,786	\$86,092,046	\$66,978,202	\$74,523,093
UNDESIGNATED FUND BALANCE	<u>\$42,627,873</u>	<u>\$53,674,825</u>	<u>\$57,426,839</u>	<u>\$120,629,850</u>	<u>\$94,913,396</u>
<u>DEBT SERVICE COVERAGE RATIO:</u>					
First and Second Lien Bonds ⁽⁴⁾⁽⁶⁾	2.22	1.96	1.88	2.84	3.60
Total Debt Service Coverage ⁽⁷⁾	1.51	1.42	1.42	2.00	2.72

⁽¹⁾ Beginning in 2011, Operating Revenue include sewer surcharge fees previously dedicated solely to the payment of the System's Tennessee Local Development Authority Loans

⁽²⁾ As defined by the Bond Resolution

⁽³⁾ Net of federal subsidy on direct payment bonds

⁽⁴⁾ The Second Lien Bonds are those bonds issued pursuant to the Water and Sewer Bond Resolution

⁽⁵⁾ All remaining Subordinate Lien Bonds were defeased in September 2021

⁽⁶⁾ Net Revenue divided by debt service on the Prior First Lien Bonds and the Outstanding Second Lien Bonds

⁽⁷⁾ Net Revenue divided by the debt service on all debt

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

The following table presents a summary of the pledged revenue coverage for the System for Fiscal Year 2017 through Fiscal Year 2021. The following table is not necessarily indicative of the future financial performance of the System.

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES**

PLEGGED REVENUE COVERAGE

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Net Revenue Available for Debt Service					
Gross Revenue ⁽¹⁾	\$219,964,161	\$226,804,486	\$233,950,595	\$266,469,815	\$311,448,923
Operating Expenses ⁽²⁾	112,654,492	113,857,694	111,335,275	132,611,031	108,824,451
Net Revenue	<u>\$107,309,669</u>	<u>\$112,946,792</u>	<u>\$122,615,320</u>	<u>\$133,858,784</u>	<u>\$202,624,472</u>
Debt Service Requirement					
Principal	\$37,475,000	\$38,225,000	\$46,880,500	\$25,080,000	\$33,070,000
Interest	33,672,269	41,151,786	39,211,546	41,885,191	41,453,093
Total Debt Service	<u>\$71,147,269</u>	<u>\$79,376,786</u>	<u>\$86,092,046</u>	<u>\$66,965,191</u>	<u>\$74,523,093</u>
Coverage Ratio	1.51	1.42	1.42	2.00	2.72

(1) Includes interest on investment and other income

(2) Excludes depreciation and amortization expense

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

THE WATER AND SEWER SYSTEM

General

The formation of the Metropolitan Government of Nashville and Davidson County (the “Metropolitan Government”) effective on April 1, 1963 resulted in the combination and consolidation of (1) the water and sewage system formerly maintained by the City of Nashville, and (2) the sewage system formerly maintained by the Davidson County Improvement District No. 1 into the Department of Water and Sewerage Services (the “Department”). The Department, established under Section 8.501 of the Charter of the Metropolitan Government, is charged with the responsibility for construction, operation and maintenance of all water and sanitary sewer facilities for the Metropolitan Government as well as the collection of all charges for the services of such utilities.

In addition to the combined and consolidated facilities, the Water System (defined herein) and the Sewer System (as defined herein) have been gradually expanded to include: (i) improvements financed by revenues; (ii) improvements resulting from capital contributions in aid of construction by private developers; (iii) all improvements, additions and extensions financed with the proceeds of outstanding bonds and governmental grants; and (iv) facilities acquired from (a) the Nashville Suburban Utility District, (b) the First Suburban Water Utility District of Davidson County, Tennessee, (c) the sewerage service of the Parkwood Service Company, (d) the Joelton Water Utility District, (e) the City of Lakewood water and sewerage system, (f) Rayon City Water Company, (g) the Cumberland Utility District, (h) the sewerage service of the Nolensville/College Grove Utility District in Williamson County, and (i) the Old Hickory Utility District of Davidson County.

Under the Charter and Tennessee Code Annotated §7-3-302, the Metropolitan Government can assume and take over any water and/or sewer utility district located within its boundaries through ordinances adopted by the Metropolitan County Council of the Metropolitan Government (the “Metropolitan Council”). Several such systems currently operate inside Davidson County and if a decision is made to consolidate these operations into the Department, the Metropolitan Government will take subject to or retire all debts and liabilities of the systems. The economic impact of such an assumption or takeover would be evaluated prior to the submission of any legislation to the Metropolitan Council. By contract, dated February 1996, the Metropolitan Government has agreed not to take over the Harpeth Valley Utility District before February 2026.

Historically, the Department managed and partially funded the Stormwater operations of the Metropolitan Government. In 2009, the Metropolitan Government established a Stormwater Division of the Department as a stand-alone enterprise fund with its own set of service fees, which are now an itemized part of the water bill. Further funding of Stormwater operations will not be required of the Department.

In July of 2021, the Department began managing Waste Services which provides Waste and Recycling Services to Nashville and Davidson County. This is established as a standalone special revenue fund that is funded in part by proceeds from property taxes and revenues from waste operations.

The Water System

The water provided by the Department's water system (the "Water System") currently meets all physical, chemical, and bacteriological water quality standards established by the United States Environmental Protection Agency (the "EPA") under the Safe Drinking Water Act, as amended, by the Tennessee Department of Environment and Conservation ("TDEC") and under the Tennessee Safe Drinking Water Act of 1983, as amended.

The Water System draws water from the Cumberland River and processes it through modern filtration plants for delivery into the distribution system. Raw water is treated by chemical coagulation, flocculation, clarification, filtration, and disinfection. The existing water treatment plants and pumping facilities have a total delivery capacity of 180 million gallons per day. In Fiscal Year 2020, net sales to retail customers were 22.8 billion gallons. The peak demand for water from the system during Fiscal Year 2020 was 116.5 million gallons as of October 2, 2019.

The Omohundro Water Treatment Plant, originally placed in service in 1889, has been extensively expanded and modernized over the years. This campus includes (i) the George Reyer Pumping Station, (ii) the Robert L. Lawrence Jr. Filtration Plant, and (iii) the Boiler House and a recently built electrical substation. The substation includes four 2.5 mega-watt backup electrical generators that can run the entire Omohundro Campus at its rated maximum capacity of 90 million gallons per day. The central control room located at this plant provides constant monitoring of the status of all water pumping stations and reservoirs.

The K. R. Harrington Water Treatment Plant was completed and placed into operation in 1977. This facility provided an additional capacity of 60 million gallons per day to the Metropolitan Government's water treatment capabilities. Expansion of this plant to 90 million gallons per day was completed in 1992 and will ensure an adequate supply of potable water through the coming years. In 1999, as a precaution against prolonged power outages caused by ice storms, tornadoes, or other disasters, the Harrington Plant was equipped with four emergency generators with a capacity of 1,750 kW each. These generators allow the Department to operate the plant at a capacity of 72 million gallons per day.

The water from the existing treatment plants is delivered into the water distribution system through six major transmission mains. The water distribution system contains approximately 3,067 miles of mains ranging in diameter from 2 inches to 60 inches. Storage is provided by the Eighth Avenue Reservoir, which is 51 million gallons in capacity, and various other reservoirs with a combined additional capacity of 37.3 million gallons and by tanks and standpipes, many of which are utilized to provide water service in areas of higher elevation than the central urbanized area. Currently only half of the Eighth Avenue Reservoir is in service, thus reducing its capacity to 25.5 million gallons. The Water System has 57 booster-pumping stations to deliver water to these higher regions.

Although recent growth has been relatively flat, the Water System has experienced continuous growth over the past decade, and as of Fiscal Year 2020, provided direct service to 212,481 customers. In Fiscal Year 2020, 60% of the water provided by the Water System was consumed by commercial and industrial customers (including residential apartment complexes), and 40% by residential customers.

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The following table illustrates the growth of the Metropolitan Government’s Water System over the past eleven (11) fiscal years:

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
(For the Fiscal Years Ended June 30, 2010, through June 30, 2020)**

USE OF WATER:	Fiscal Year 2020	Fiscal Year 2010	Fiscal Years 2010-2020
Water Customers ⁽¹⁾	212,481	176,033	20.71%
Average Daily Finished (MGD)	91.5	89.2	2.54%
Water Sales for Fiscal Year ⁽²⁾ (billions of gallons)	22.8	21.4	6.54%
Maximum Daily Demand (millions of gallons)	116.5	108.2	7.67%
<u>GROWTH OF SYSTEM:</u>			
Utility Plant Value ⁽³⁾ (in millions)	2,062	1,575	30.89%
Reservoirs	37	40	-7.5%
Storage Capacity of Reservoirs (millions of gallons)	62.8	92.6	-32.18%
Water Pumping Stations	57	57	0.00%
Miles of Distribution Lines	3,067	2,878	6.57%
Fire Hydrants	21,608	19,974	8.18%

⁽¹⁾ As per billing records.

⁽²⁾ Excludes wholesale customers.

⁽³⁾ Property, Plant & Equipment of the Combined Water and Sewer System, net of depreciation.

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

The Department has a contract with Water Systems Optimization to perform an independent water audit annually. The audit for Fiscal Year 2020 is complete. During the audit, the system input volume is categorized as revenue water and non-revenue water. Non-revenue water is further broken down into real losses (leakage) and apparent losses (meter error). For Fiscal Year 2020, the real losses were 28.7% of system input volume and the apparent losses were 1.2% of system input volume.

The Sewer System

The existing sewerage system (the “Sewer System”) comprises of 3,017 miles of gravity sewers, 120 pumping stations, 167 miles of force main and four treatment plants, the three most important of which are the Central Wastewater Treatment Plant, the Dry Creek Wastewater Treatment Plant, and the Whites Creek Wastewater Treatment Plant. The Central Wastewater Treatment Plant has a capacity of 250 million gallons per day plus an additional 80 million gallons per day used for stormwater treatment for a total capacity of 330 million gallons per day. The Dry Creek Wastewater Treatment Plant has a design capacity of 24 million gallons per day of secondary treatment while the Whites Creek Wastewater Treatment Plant has a capacity of 37.5 million gallons per day of secondary treatment.

The Department properly treats and disposes of sludge produced at its treatment plants consistent with State and Federal law, and has constructed a \$132 million biosolids facility to stabilize and further treat sludge, including sludge thickening, anaerobic digestion and heat drying. The methane gas produced from the digesters is used to heat

dry the sludge into pellets, which are considered a Class A material by the USEPA and are a marketable agricultural product. The facility has significantly reduced the need to landfill the residuals.

The following table illustrates data on the use and facilities of the Sewer System over the last ten (10) fiscal years. The average number of customers served increased 14.6% since Fiscal Year 2010. Over the last ten fiscal years, there has been a 9.1% increase in the number of sewerage pumping stations and a concurrent 4.6% increase in the miles of sewer lines. Wastewater treatment has increased by approximately 7.8%.

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
(For the Fiscal Years Ended June 30, 2010, through June 30, 2020)**

SEWER SYSTEM:	Fiscal Year 2020	Fiscal Year 2010	Fiscal Years 2010-2020
Sewer Customers	216,988	189,299	14.63%
Annual Sewage Treatment (billions of gallons)	65.3	60.6	7.79%
Average Daily Treatment (millions of gallons)	186.5	166.0	12.35%
<u>GROWTH OF SYSTEM:</u>			
Utility Plant Value ⁽¹⁾ (in millions)	2,062	1,575	30.89%
Total Miles of Sewer Lines	3,184	3,045	4.56%
Treatment Plants	4	4	0.00%
Total Sewer Pumping Stations	120	110	9.09%

⁽¹⁾ Property, Plant & Equipment of the Combined Water and Sewer System, net of depreciation.

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

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Major Customers

The following list shows the largest customers of the Department for water and sewer services for the fiscal year ended June 30, 2020, ranked according to billings.

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
WATER SERVICES LARGEST CUSTOMERS
(For the Fiscal Year Ended June 30, 2020)
(Amounts in Thousands)**

WATER CUSTOMERS	AMOUNTS
Vanderbilt University	\$2,189,581
City of Brentwood	830,706
RHP Operations OH, LLC	665,536
Metro District Energy Systems	398,849
MWS – Biosolids Treatment Plant	355,640
Wometco Coca Cola	350,187
Fivestar Custom Foods	337,510
Bridgestone Tire & RC	301,139
David Lipscomb University	293,013

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
SEWER SERVICES LARGEST CUSTOMERS
(For the Fiscal Year Ended June 30, 2020)
(Amounts in Thousands)**

SEWER CUSTOMERS	AMOUNTS
Hendersonville Utility District	\$3,617,719
City of Mt. Juliet	3,405,472
Brentwood Lift Station	3,215,760
Vanderbilt University	3,123,599
City of Goodlettsville District	2,975,404
City of Lavergne	2,234,996
RHP Operations OH, LLC	1,301,558
MWS – Bio Solids Treatment Plant	651,722
Fivestar Custom Foods	619,132
Bridgestone Tire & RC	511,816
David Lipscomb University	309,721

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

Management and Personnel

SCOTT A. POTTER, P.E., Director, graduated from Vanderbilt University with a Bachelor of Engineering Degree in Electrical Engineering in 1986 and was commissioned as an Ensign in the United States Navy. While serving in the Navy Mr. Potter received a master’s degree in Mechanical Engineering from the Naval Postgraduate School in Monterey, California, in 1991. Mr. Potter served on two destroyers: USS COCHRANE (DDG 21) and USS CALLAGHAN (DDG 994). While stationed at the United States Naval Academy, he earned

the academic rank of Master Instructor, teaching courses in Statics, Materials Science, Applied Fluid Mechanics, Thermodynamics, and Applied Thermodynamics. The Louisville Water Company, in Louisville, Kentucky, employed Mr. Potter as Manager of Distribution Operations from 1998 to 2001. He was also an adjunct member of the faculty of the Mechanical Engineering Department in the Speed Scientific School at the University of Louisville and is presently an adjunct instructor at Belmont University in the Mathematics Department.

DAVID M. TUCKER, Deputy Director (Operations), graduated from Tennessee State University with a Bachelor of Science Degree in Biological Sciences. He has thirty-two years of experience in water and wastewater treatment plant operations and maintenance. Mr. Tucker holds a State of Tennessee Grade IV Operator's Certification in both water and wastewater treatment. The Operations division is responsible for the operation and maintenance of all water and wastewater treatment facilities, all associated pumping stations and reservoirs, Laboratory Services and Security. He joined the Department in 1987 as an Assistant Plant Manager and has progressed to his present position. He is a member of the Water Environment Federation and the American Water Works Association.

CYRUS Q. TOOSI, P.E., Assistant Director (Engineering), graduated from the University of Texas at Austin, in 1988, with a Bachelor of Science Degree in Civil Engineering. Mr. Toosi held a position with the City of Houston for two years prior to coming to Nashville. In 1990 he joined the Department as a hydraulic modeler, and as a flow monitoring, and planning specialist. He has since advanced to his present position. He has twenty years of experience in the engineering of water and wastewater systems. He has created MWS' Master Water Growth Plan, Asset Management Program, and Water Infrastructure Rehabilitation Program. He also currently serves as the Chief Engineer for the Department and also oversees the Overflow Abatement- Clean Water Nashville Program. He holds a Professional Engineering License in the State of Tennessee and is a member of the American Water Works Association and Water Environment Federation.

AMANDA K. DEATON-MOYER, Assistant Director (Business & Finance), holds a Bachelor of Arts Degree in Political Science and a Master of Public Administration degree from the University of Georgia. She is a Certified Municipal Financial Officer for the State of Tennessee and is a member of the Association of Government Accounts, the Government Financial Officers Association. Prior to joining the Department in 2017, she served as the City Manager for the City of Forest Hills, Tennessee and the Assistant Chief Administrative Officer for Budget and Strategic Planning for the City of Macon, Georgia. She has over 10 years of professional experience in financial planning and management in the government sector.

LEANNE B. SCOTT, P.E., Assistant Director (Repair and Maintenance of Distribution and Collection Systems) holds a Bachelor of Science degree in Chemical Engineering from Tennessee Technological University and a Master of Science degree in Engineering Management from the University of Tennessee. She has over thirty years of experience in water and wastewater systems, working across the department in treatment, distribution/collection systems, engineering planning. Leanne is a registered professional engineer in the State of Tennessee and holds Grade 4 Water Treatment Operator, Grade 2 Water Distribution Operator and Grade 2 Wastewater Collection Operator licenses. She is a member of the Water Environment Federation, served as President of the KY-TN Section in 2011-12 and 2013-14 and currently serves as the Tennessee Delegate. She is also a member of the American Waterworks Association and serves on the section's Nonrevenue Water Committee.

BRENT R. FREEMAN, P.E., Assistant Director (Operations - Wastewater), holds a Bachelor of Science Degree in Civil Engineering from Tennessee Technological University. He is a licensed Professional Engineer, holds state operator certifications in Wastewater Operations, Collection, and Distribution, and is a Certified Energy Manager. He is a member of the Water Environment Federation, Association of Energy Engineers, and the American Water Works Association. Prior to joining the Department in 2002, Mr. Freeman worked as a consulting engineer; and he has over 25 years of professional experience in municipal operations and engineering.

GLEN K. DOSS, Assistant Director (Water Operations), holds an associate degree in Electrical Engineering Technology and a bachelor's degree in Business Administration. He has 27 years of experience in water and wastewater treatment plant operations and maintenance. Mr. Doss holds a State of Tennessee Grade IV Operator's Certification in both water and wastewater treatment. He joined the Department in 1992 as a helper in the electric shop at the Central Wastewater Treatment and has progressed to his present position. He is the licensed operator in direct charge of the water treatment system as per TDEC rules and regulations.

HAL BALTHROP, P.E., Assistant Director (Development Services), holds a Bachelor of Science Degree in Civil Engineering from Tennessee Technological University. He is a licensed Professional Engineer and the Department's State Licensed Collection System Manager and Water Distribution Manager. Mr. Balthrop also serves on the Tennessee Board of Architectural and Engineering Examiners, serves as State Chair of the Tennessee Water and Wastewater Agency Response Network, serves as Chair of the KY/TN AWWA Water Utility Committee on Legislative Issues and is a member of WEF, AWWA, TWWA, and TAUD.

SHANNON FRYE, Assistant Director (Customer Service & Information Services), graduated from Trevecca University with a Bachelor of Arts in Management and Human Relations. She joined the department in 1988 beginning her career in Human Resources and then transitioned to Customer Service where she has been working for over 30 years. Ms. Frye has served several years on the AWWA Customer Service Committee. She is the Chair of the KY/TN AWWA Knowledge, Creation, and Exchange Council and is a member of the Water for People Committee.

Pension Plans and Other Post-Employment Benefits

Overview

Employees of the Department participate in one of two main pension plan groups:

1. Metro Active Plans
2. Closed Plans maintained under the Guaranteed Payment Program

The Department's expenses for the various pension plans are determined by the contribution rate established by the Metropolitan Employee Benefit Board (the "Benefit Board") and totaled \$5,038,008 for the Fiscal Year ended June 30, 2021.

The Metro Active Plans consist of two divisions – A and B. Division A was established at the inception of the Metropolitan Government on April 1, 1963 and implemented on November 4, 1964. At that time, all employees of the former city and county governments were given the option of continuing as participants of the pension plans of those organizations or transferring to the Metro Plan Division A. Division A of the Metro Plan was closed to new members on July 1, 1995.

On July 1, 1995, Division B of the Metro Active Plans was established for all non-certified employees of the Metropolitan Nashville Public Schools and all other Metropolitan Government employees. Metropolitan Government employees who were members of Division A were given the option to transfer to Division B as of January 1, 1996. At that time, 95% of the approximately 11,300 employees elected to transfer to Division B.

The Metro Active Plan Division B is a non-contributory, defined benefit plan, covering approximately 12,100 current employees and 13,200 retired and deferred vested employees. The Active Plan covers all employees of the Metropolitan Government other than teachers. Contributions attributable to employees of the general government (approximately 75% of the total) are funded from the Metropolitan Government's operating fund and revenues. The balance of contributions (approximately 25%) is attributable to the Metropolitan Government employees at enterprise funds and other non-operating funded agencies of the Metropolitan Government (e.g., contributions for water and sewer department employees and funded from water and sewer revenues).

The Closed Plans are defined benefit plans collectively covering approximately 1,300 retired employees. Contributions to the Closed Plans are funded from the Metropolitan Government's operating fund through the Guaranteed Payment Plan.

Metro Active Plan

Benefits

Normal retirement for employees other than police officers and fire fighters occurs at the unreduced retirement age which is the earlier of (a) the date when the employee's age plus the completed years of credited employee service equals 85, but not before age 60; and (b) the date when the employee reaches age 65 and completes five years of credited employee service. The lifetime annual benefit is calculated as 1.75% multiplied by the final average earnings multiplied by the years of credited service. Final average earnings are the highest 60 consecutive months of credited service divided by five. Benefits fully vest after completing five years of service.

Employees with a date of hire on or after July 1, 2013, will become fully vested after completing ten years of service.

Normal retirement for police officers and fire fighters occurs any time after attaining the unreduced retirement age which is the date when the employee's age plus the completed years of credited police and fire service equals 75, but not before age 53 nor after age 60. The lifetime annual benefit is the sum of two percent (2%) of final average earnings multiplied by the years of credited police and fire service up to 25 years; plus 1.75% of final average earnings multiplied by the year of credited police and fire service over 25 years. Final average earnings is the highest 60 consecutive months of credited service divided by five. Benefits fully vest upon completing five years of service. Employees with a date of hire on or after July 1, 2013, will become fully vested upon completing ten years of service.

An early retirement pension is available for retired employees if the retirement occurs prior to the eligibility of normal retirement but after age 50 (45 for police officers and fire fighters) and after the completion of ten years credited employee service. Benefits are reduced by four percent (4%) for each of the first five years by which the retirement date precedes the normal retirement age, and by eight percent (8%) for each additional year by which the retirement date precedes the normal retirement age.

Any employee who terminates after completion of required years of service to be vested and before eligibility for normal or early retirement is eligible to receive a monthly deferred pension commencing on the first day of the month following the attainment of unreduced retirement age computed and payable in accordance with the plan.

Funding

Minimum Required Employer Contribution: The Metropolitan Code of Ordinance requires the Metropolitan Government to contribute to the Metro Active Plans each fiscal year an amount equal to a percentage of the annual payroll of members who are eligible employees and who are covered for pension benefits the percentage to be known as the "employer contribution rate." The employer contribution rate applicable for any fiscal year is determined by resolution of the Benefit Board at a public meeting held at least four months prior to the beginning date of such fiscal year and filed with the Metropolitan Clerk and must be no less than the smaller of (1) three-tenths of one percent plus the employer contribution rate applicable to the prior fiscal year, or (2) an employer contribution rate, which shall be the ratio of the actuarially determined contribution level to the amount of the valuation payroll, on the basis of an actuarial valuation of the system made as of the last day of the fiscal year preceding the adoption of the contribution rate. The actuarially determined contribution level equals the sum of normal cost and a percentage of unfunded past service liabilities, such percentage to be determined by the board at a level at least equal to the actuarial valuation interest rate. The actuarial valuation must be made by a qualified or accredited actuary according to accepted and sound actuarial principles and methods and based on actuarial assumptions which have been recommended by the actuary and approved by the Benefit Board.

Historic Employer Contribution: The Metropolitan Government has historically made employer contributions at a rate higher than the minimum required contribution. The Metropolitan Government's policy has been to make annual contributions to the Active Plans equal to the actuary's recommended rate, sufficient to amortize the unfunded liability over the 40-year period commencing in 1978. Beginning with the plan year ended June 30, 2006, the Benefit Board adopted a level unfunded liability amortization period of 15 years. The level amortization period is designed to reduce contribution volatility compared with a continuing decline in the amortization period. The chart below illustrates the annual employer contribution rate (in both percentage of employee salary and aggregate dollar terms) for the past 10 years. The employer contribution rate for Fiscal Year 2019-2020 was 12.340%. The contribution rate for Fiscal Year 2020-2021 was 12.340%. Factors affecting the reduction in the contribution rate are investment returns, compensation increases were less than expected, and cost-of-living adjustments (COLA) were less than projected.

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**Historical Contributions of the Metropolitan Government
Metro Active Plan**

Fiscal Year Ending June 30	Contribution Rate	Contribution Amount
2021	12.340%	\$86,414,449
2020	12.340	78,632,924
2019	12.340	77,242,171
2018	12.340	76,539,373
2017	12.340	73,868,818
2016	15.510	85,676,490
2015	17.987	94,045,896
2014	17.117	87,643,045
2013	15.938	82,653,128
2012	15.416	81,636,995

Source: The Metropolitan Government of Nashville and Davidson County.

Key Actuarial Assumptions

- Current actuarial assumptions include a discount rate of 7.5%, cost-of-living adjustments (COLA) of 2.50% for Division A and 1.25% for Division B, salary increases averaging 4.0% annually and five-year smoothing of gains and losses, and an inflation rate of 2.50%.

Schedule of Funding Progress

Effective June 30, 2014, the Metropolitan Government adopted GASB Statement No. 68, which revised the calculation and financial statement disclosure regarding the liability related to pensions. The table below illustrates a history of funding progress based on the Metropolitan Government's net pension liability.

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
OPEN PENSION PLAN; SCHEDULE FUNDING PROGRESS
For the Fiscal Years Ended June 30, 2016 through June 30, 2021
(Amounts in Thousands)**

Fiscal Year Ending	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability	Plan Fiduciary Net Position as a Percentage of Total Pension Liability	Covered Payroll	Net Pension Liability as a Percentage of Covered Payroll
June 30, 2016	2,909,545	2,688,227	221,318	92.39%	531,267	41.66%
June 30, 2017	3,009,103	2,968,259	40,844	98.64%	538,699	7.58%
June 30, 2018	3,198,180	3,116,572	81,608	97.45%	577,129	14.14%
June 30, 2019	3,377,509	3,254,984	122,525	96.37%	623,435	19.65%
June 30, 2020	3,489,331	3,272,530	216,801	93.79%	638,021	33.98%
June 30, 2021	3,632,594	4,204,832	(572,238)	115.75%	662,804	-86.30%

Source: The Metropolitan Government of Nashville and Davidson County.

Benefits

Employees hired on or after July 1, 2014, became members of a new plan that consists of two components, a defined benefit plan and a defined contribution plan. TCRS members in the defined benefit plan are eligible to retire either at the age of 65 and vested with five years of service or under the rule of 90 where a combination of age and service credit total 90. An actuary reduced benefit is available at age 60 or the rule of 80. Disability benefits are available after five years of service for those who become disabled and cannot engage in gainful employment. Benefits are determined by a formula using the member's high five-year average salary and years of service. TCRS members in the defined contribution plan elect to participate in the Optional Retirement Program. Members are immediately vested in employer and employee contributions. Members make the determination as to how the employer contributions made on their behalf are invested. Members can choose among a variety of investment products. Benefit provisions are established in state statute found in Title 8, Chapters 34-37 of the Tennessee Code Annotated. Tennessee statutes are amended by the Tennessee General Assembly.

Closed Plans – Guaranteed Payment Plan

The Metro Council created the Guaranteed Payment Plan effective July 1, 2000 to ensure actuarially sound funding for a group of five closed plans supervised by the Metro Benefit Board and the Board of Education. Under the Guaranteed Payment Plan, unfunded liabilities of the aggregate plan are amortized over a period of no more than thirty years beginning with the effective date. Payments for each constituent plan are transferred to a payment account from which distributions are disbursed to the constituent plans as necessary to satisfy current benefit needs and funding objectives of the Guaranteed Payment Plan. Appropriations made by Metro and the Board of Education to fund obligations of the aggregate plan may not be reduced until all plan obligations are fully amortized. Plan improvements adopted subsequent to inception are to be funded over a period ending June 30, 2030.

The five plans included in the Guaranteed Payment Plan are:

- Metropolitan Board of Education Teacher Retirement Plan
- Davidson County Board of Education Retirement Plan
- Nashville City Teachers Retirement Plan
- Former Davidson County Pension System
- Former City of Nashville Pension System

Current Funded Status

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
CLOSED PENSION PLANS
SCHEDULE FUNDING PROGRESS
For the Fiscal Year Ended June 30, 2021
(Amounts in Thousands)**

Teachers and Employees	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability	Plan Fiduciary Net Position as a Percentage of Total Pension Liability
Metro Teachers	\$211,797	\$157,919	\$53,878	74.56%
County Teachers	22,687	1,178	21,509	5.19
City Teachers	9,618	963	8,655	10.01
City Employees	21,781	-	21,781	0.00
County Employees	4,454	-	4,454	0.00

Source: The Metropolitan Government of Nashville and Davidson County.

Historical Contributions

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
CONTRIBUTIONS
METRO CLOSED PLANS
(For the Fiscal Years Ended June 30, 2012 through June 30, 2021)**

Fiscal Year Ending June 30	Metro Contributions	State Contributions
2021	\$33,577,399	\$12,291,240
2020	33,570,400	13,341,332
2019	33,577,399	14,096,974
2018	33,486,419	14,782,460
2017	33,490,352	15,484,346
2016	33,493,456	16,200,749
2015	33,524,016	16,902,423
2014	33,512,358	17,593,670
2013	33,521,052	18,130,962
2012	33,520,844	18,769,087

Source: The Metropolitan Government of Nashville and Davidson County.

Additional statistical information for the Closed Plans can be found in the Metropolitan Government's CAFR, a link to which is included in this Official Statement.

Other Post-Employment Benefits

The Metropolitan Government currently provides various other post-employment benefits ("OPEB") other than pensions, with healthcare representing the most significant portion of the OPEB cost. For any retiree in the Metro, City or County Plan who elects to participate in the Metro Medical Benefit Plan, the Metropolitan Government contributes 75% of all premium payments, and the retiree contributes 25%. For employees hired July 1, 2013, or later, the Metropolitan Government contribution is based on years of service and ranges from 25% for a retiree with less than 15 years of service to 75% for a retiree with 20 or more years of service. On July 1, 2014, the Metropolitan Government implemented a Medicare Part D or Employer Group Waiver Plan for eligible retirees that are expected to reduce OPEB liability. Funding is on a pay-as-you-go basis under which payments are made in amounts sufficient to cover benefits paid, administrative costs and anticipated inflationary increases. The Metropolitan Government also provides a matching contribution on dental insurance for any retiree who elects to participate and provides life insurance at no charge. During the Fiscal Year ended June 30, 2021, contributions totaled \$60,003,504.

For any retiree in the Metro, City or County Education Plans who elects to participate in the medical and dental insurance plans of the Metropolitan Nashville Public Schools; Schools contribute 75% of all premium payments with the retiree contributing the remaining 25%. Funding is on a pay-as-you-go basis under which payments are made in amounts sufficient to cover benefits paid. During the year ended June 30, 2021, contributions totaled \$21,123,981.

The Metropolitan Government adopted GASB Statement No. 75, Accounting and Financial Reporting for Post-Employment Benefits Other Than Pensions, in Fiscal Year 2018. This Statement addresses how governments should account for and report their costs and obligations related to post-employment healthcare and other non-pension benefits; it does not require that the liability be funded. No assets are set aside in a trust to fund the OPEB liability.

For Fiscal Year ended June 30, 2021, amounts related to OPEB were (all amounts in thousands):

	Metro Plan	School Plan
Total OPEB Liability	\$3,240,451	\$1,061,732
Covered Payroll	577,277	350,295
Total OPEB Liability as a % of Covered Payroll	561.33%	303.10%

The key assumptions used in developing these amounts include:

- Current level of benefits provided;
- June 30, 2021 valuation date and census data;
- Discount Rate: 2.18%;
- Administrative fees: 5.00% per annum; and
- Healthcare cost trend rate: 6.25% graded down to 5.75% for medical expenses and prescription drugs, 4% each year for dental and vision expenses.

Rate Setting Process

The Charter provides that the Metropolitan Mayor and the Metropolitan Council have the authority and are directed to establish the rates for water and sewerage services and to provide methods of changes in such rates. Acting in accordance with this authority, the Metropolitan Council adopted Ordinance BL 2019-045, which beginning January 1, 2020, implemented a five-year plan of increases for both water and wastewater rates. Water and sewer rates were restructured in accordance with a cost of services study, completed in Fall of 2019. In addition to the restructuring, rates were increased, equivalent to 26.4%, to meet planned capital needs. Water and sewer rate increases were 4% for calendar year 2021; and 3% for the calendar years 2022, 2023, and 2024. Beginning in calendar year 2025, annual rate increases based on the greater of the Consumer Price Index for all Urban Consumers or 2%, will occur in perpetuity. The Ordinance requires cost of services studies to be completed at least every seven years to review and realign rates with Capital and Operating requirements.

The Metropolitan Council also adopted Ordinance BL 2010-790 on December 7, 2010, imposing a 10% sewer surcharge in lieu of the surcharge which had previously been imposed to secure the payment of the TLDA Loans. Therefore, the sewer surcharge had not been included as part of Revenues, and such funds were not available to pay System operating expenses or System debt service (other than the TLDA Loans). Ordinance BL2019-045 renames the 10% Sewer Surcharge the Sewer Infrastructure Replacement fee and adds a 10% charge on water rates called the Water Infrastructure Replacement Fee. Revenue from the surcharges is available for payment of System operating expenses and debt service. In addition to rate adjustments, Ordinance BL2019-045 increased water capacity fees by 450% and sewer capacity fees by 207%.

Any change in the water and sewerage service rates established under the above ordinances must be adopted by the Metropolitan Council through approval of an ordinance. As stated in Section 3.05 of the Charter: “No ordinance shall become effective unless it shall have passed by a majority vote on three (3) different days, on the final passage of which it shall have received a majority vote of all the members to which the council is entitled and until it shall have been signed by the Metropolitan County Mayor or become a law without his signature....”

An ordinance will become law without the signature of the Metropolitan Mayor if the Metropolitan Mayor fails to approve or disapprove the ordinance and does not return it to the Metropolitan Council at or prior to the next regular meeting of the Metropolitan Council occurring ten days or more after the ordinance is delivered to the Metropolitan Mayor. If the Metropolitan Mayor vetoes the ordinance, it will become law if subsequently adopted by a two-thirds vote of all the members of the Metropolitan Council to which it is entitled.

Under the Charter, the Metropolitan Mayor is obligated to submit an operating budget to the Metropolitan Council no later than May 1st of each year. Before the beginning of each Fiscal Year, and in no event later than June 30th, the Metropolitan Council is obligated to adopt a budget, which must provide for all expenditures required by law or the Charter and for the payment of all debt service requirements for the ensuing fiscal year and a tax rate to fully fund the budget. If the Metropolitan Council fails to adopt a budget, the budget submitted by the Metropolitan Mayor becomes law and the Metropolitan Council must adopt a tax rate to fund that budget.

Monthly service charges for water and sewerage services are generally based, in each case, upon a rate schedule consisting of a minimum charge and a quantity charge. The minimum charges vary according to meter size and account class, i.e. residential, nonresidential/commercial. The quantity charge is dependent on account class.

Monthly rates for water sold are based on meter measurement. Monthly sewerage service charges for the use of the public sanitary sewerage system are set by water consumption as determined by meter measurement. Minimum charges per month are based on size of meter and customer class.

Water revenues from the Department’s customers include a fixed minimum charge per customer connection and a quantity charge per 100 cubic feet (cf) based upon the meter size and number of connections, and a 10% Water Infrastructure Replacement fee. The quantity charge is applied to all consumption in excess of 200 cf per month. The rates listed below were in effect as of January 1, 2021.

The following table illustrates the Class Determination and each’s anticipated and historical usage:

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
WATER AND SEWERAGE RATE SCHEDULE BY CUSTOMER CLASS**

CLASS	ANTICIPATED/HISTORICAL USAGE
Residential	Up to Two Housing Units on a Common Meter All Others
Non-Residential	

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

The following tables illustrate (i) the Water and Sewer System charges and rates, along with (ii) the volumetric rates, as of January 1, 2021:

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
WATER AND SEWER CHARGES AND RATES
Minimum Charges per Month (Including 200 Cubic Feet Usage)
(As of January 1, 2021)**

METER SIZE	WATER	SEWER
5/8 inches	\$ 5.30	\$ 8.46
3/4 inches	12.61	37.44
1 inch	15.89	48.44
1 1/2 inches	27.92	94.30
2 inches	39.42	132.48
3 inches	63.01	164.93
4 inches	143.23	467.97
6 inches	178.81	557.89
8 and 10 inches	232.67	714.36

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
VOLUMETRIC RATES ⁽¹⁾
Minimum Charges per Month (Including 200 Cubic Feet Usage)
(As of January 1, 2021)

RESIDENTIAL	WATER	SEWER
0-2 CCF	0	-
2-6 CCF	3.64	6.08
6-10 CCF	4.37	6.08
>11 CCF	5.46	6.08
NON-RESIDENTIAL	WATER	SEWER
0-2 CCF	0	0
>2 CCF	2.86	6.08

⁽¹⁾ The volumetric rates include a 10% Water Fee and a 10% Sewer Infrastructure Fee.

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

Billing and Collection Procedures

With certain limited exceptions, the Department is required to charge for all water and sewerage services provided by it and consumed by, or, in the case of sewerage services, made available to each customer. Charges for water and sewerage services are generally based on metered measurement of water consumption. The Department reads meters and renders bills to customers monthly. The charges for water and sewerage services are included in a single, combined bill in terms of a “net billing,” which is the charge calculated at established rates, and a “gross billing,” which is the current net billing increased by 5% or by \$2.50, whichever is greater. This addition to the net billing is a form of penalty for the customer’s failure to promptly pay the monthly bill for services. The gross billing amount becomes applicable 20 days after the billing is mailed to the customer. If a customer fails to pay a bill, a delinquency notice is included in the subsequent month’s bill. If the customer fails to pay the bill for a second time, the customer is notified of potential disconnect by letter and/or phone call advising that service will be discontinued if payment is not received in five days. If the customer does not pay the delinquent account within five days following the notice, the account is subject to immediate discontinuation of water and sewer service. To have service restored the customer must then pay the total delinquent amount plus a reconnection fee. If the Department is unable to collect the amount owed, the account is then turned over to a commercial collection agency.

These billing and collection procedures have resulted in the collection of approximately 99.63% of all amounts billed during the past five Fiscal Years.

The Department has approximately 215,000 meters across Davidson County, Tennessee. Of those, more than 98,000 are AMI (“Advanced Meter Infrastructure”), meaning readings and other vital data can be sent and received remotely through the cellular network. Beginning in 2018, the Department replaced about 12,000 meters with this technology and will continue annually until the entire system is upgraded. Currently, the AMI system uses nine antennae to receive data; this system will be expanded as the network needs grow. Customer service has experienced a less than 1% failure rate with data reception from AMI meters.

Wholesale Customers

The Department provides sewage treatment services for the Cities of Brentwood, Goodlettsville, Millersville, Belle Meade, Lavergne, Ridgeway, Mount Juliet, Hendersonville Utility District, and White House Utility District (the “Wholesale Sewer Customers”), pursuant to contracts between the Department and each of the Wholesale Sewer Customers. Revenues from Wholesale Sewer Customers represented 6.6% (or \$17.2 million) of revenue received in Fiscal Year 2020. Wholesale contracts have been updated to include annual escalation based on the consumer price index. Under the wholesale contracts, the Department is obligated to treat sewage (subject to volume limitations) from the Wholesale Sewer Customers, and the Wholesale Sewer Customers are required to pay a volumetric rate for sewage delivered to the Department. Capital costs incurred by the Department to maintain

capacity for the Wholesale Sewer Customers are recoverable under the contracts. None of the Wholesale Sewer Customers has ready access to other sewage treatment facilities. A cost of services study was conducted in Fiscal Year 2018 and rates were increased in October 2019 by 6% accordingly. Wholesale Sewer Customer flows were approximately 12.88% of total treated flows for Fiscal Year 2020.

The following table illustrates a summary of the effective dates and terms of the wholesale contracts:

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
DEPARTMENT OF WATER AND SEWERAGE SERVICES
WHOLESALE CUSTOMERS' CONTRACTS**

WHOLESALE CUSTOMERS	EFFECTIVE DATE	AMENDMENT DATE	TERM OF CONTRACT
City of Belle Meade	October 1, 2014	N/A	10 years
City of LaVergne	December 1, 2009	October 1, 2014	10 years
City of Millersville	February 16, 2010	October 1, 2014	10 years
City of Brentwood	November 19, 2009	October 1, 2014	10 years
City of Goodlettsville	September 27, 2010	October 1, 2014	10 years
Hendersonville Utility District	October 20, 2011	May 6, 2015	20 years
City of Ridgetop	May 6, 2015	N/A	9 years
City of Mount Juliet	June 22, 1999	N/A	30 years
White House Utility District	May 6, 2015	N/A	9 Years

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

Operations and Maintenance

The Department has implemented operation and maintenance procedures with respect to the System and has undertaken several programs to upgrade performance, including a water quality testing program. Water quality within the water treatment facilities is tested on site on an hourly basis. Additional testing is conducted at a central laboratory maintained by the Department and certified by the State of Tennessee. Water discharged from the plants into the distribution system is monitored in accordance with the Federal Safe Drinking Water Act. Water discharged from the three wastewater treatment plants is tested to ensure compliance with the National Pollutant Discharge Elimination System as administered by the United States Environmental Protection Agency and Tennessee to the Tennessee Department of Environment and Conservation.

The Department takes every precaution to ensure that the water delivered to each customer is of the highest quality possible and meets all Federal and State drinking water standards. Drinking water does not contain lead when it leaves the treatment plants but tap water can accumulate trace amounts of lead through the corrosion of plumbing materials containing lead. The Department has had an intense corrosion control program since 1992 to prevent the possibility of lead leaching into the water. Following EPA and State guidelines, the Department regularly monitors drinking water in the distribution system for lead to determine the effectiveness of our corrosion control program. The Department replaces its portion of lead service lines prior to public works paving projects, during water main replacement projects, and when a lead service line is leaking, and repair would be required.

The Department performs regular maintenance and repair of equipment with outside contractors performing major repairs. To facilitate maintenance and repairs, the Department has established several inspection programs for the different areas of operation. Inspection programs include pumping station inspection, cross-connection protection testing, smoke testing for collection system integrity, water leak detection, fire hydrant testing and valve testing programs. Vans are equipped with closed circuit television cameras that can be maneuvered through the sewer mains to inspect the Sewer system.

Comprehensive training programs have been developed for employees, from unskilled to supervisory and management positions, covering many aspects of the operation and maintenance of the System. Although participation in the programs is not mandatory, employees who wish to be promoted to a higher job classification must demonstrate that they have the knowledge and skills that such programs provide.

Environmental Regulation

The Federal Water Pollution Control Act of 1972 (“FWPCA”), as amended by the Clean Water Act of 1977, and the Water Quality Act of 1987 (collectively, the “CWA”), provides for the restoration and maintenance of the chemical, physical and biological integrity of the nation’s waters. To achieve that end, the FWPCA established the National Pollution Discharge Elimination System (“NPDES”), a permit system administered by the US Environmental Protection Agency (“EPA”) in conjunction with the states. The EPA has delegated the NPDES program for Tennessee to the Tennessee Department of Environment and Conservation (“TDEC”). The Tennessee General Assembly enacted the Tennessee Water Quality Control Act of 1977 to obtain the primary objectives of the CWA and to qualify for full participation in the NPDES program established under Section 402 of the FWPCA. Pursuant to the authority granted to it, the Tennessee Water Quality Control Board has enacted regulations consistent with the CWA.

In 1990, TDEC issued Order 88-3364 (the “1990 Order”) as a result of violations by the Metropolitan government of the Tennessee CWA from January 1987 through June 1989. The 1990 Order was, among other things, a result of the discharge of improperly treated wastewater into the waterways by the Metropolitan Government’s collection system and various wastewater treatment plants, leading to pollution in violation of the CWA. The 1990 Order also stated that the Metropolitan Government’s failure to comply with certain agreed upon orders entered by the Tennessee Water Quality Control Board in 1985 and 1987 was also a basis for the 1990 Order.

The 1990 Order identified specific problems regarding the Metropolitan Government’s collection system and wastewater treatment, and required the Metropolitan Government to correct them. In response, the Department developed a detailed program, referred to as the “Overflow Abatement Program” (“OAP”), for making system improvements to correct the problems identified in the 1990 Order. This program was approved by the TDEC. Although the Department substantially complied with the 1990 Order, it was not in full compliance with the CWA as of 1999.

On September 17, 1999, the TDEC issued Order 99-0390 (the “1999 Order”) replacing the 1990 Order and citing the Metropolitan Government in violation of state law. Effective July 1, 2001, the Metropolitan Government was to immediately not permit or allow any overflows of bypasses from its combined sewer system (wastewater and storm water) during dry weather to any waters of the State, nor was it to allow any discharge from the sanitary sewerage system to any tributary of the Cumberland River. The current flow limits that the tie-in points from all contributing satellite sewage systems were to be maintained.

The Metropolitan Government has substantially addressed the issues raised in the 1999 Order and continues to make capital improvements to its Sewer System in response thereto. TDEC has not assessed monetary penalties against the Metropolitan Government for failing to meet a schedule compliance date, and the Metropolitan Government is currently in compliance with the requirement of the 1999 Order.

EPA Consent Decree

In December 2005, the Department received an inquiry from the United States Environmental Protection Agency’s Region IV (“USEPA”) headquarters. This inquiry requested certain documents and records pertaining to the Department’s operations, capital plan, and stormwater management. The Department’s response was submitted in January 2006. The Department, TDEC, and USEPA agreed on a recommended consent decree to address and correct deficiencies within the Department’s Sewer system that have caused violations of the CWA (the “Consent Decree”). The Consent Decree originally required that the Metropolitan Government fully develop, by March 12, 2011, a Corrective Action Plan/Engineering Report (CAP/ER) for its sanitary sewer system and a Long-Term Control Plan (“LTCP”) for its combined Sewer system to achieve the goals of the CWA. Upon submittal and approval of the plans, the Metropolitan Government was originally obligated to complete the work as developed by the plans in nine years.

On May 14, 2010, the Metropolitan Government petitioned the USEPA and TDEC for a 6-month time extension for the delivery of both plans and the two years for the final compliance with the Consent Decree due to the flood of May 2010. The USEPA and TDEC granted the requested time extension to the Department. Both the

CAP/ER and LTCP were submitted on time based on the time extension to EPA and TDEC in September of 2011. On August 10, 2017, the EPA approved the CAP/ER and the timeline (11 years) to complete the work, which has now officially commenced. After extensive negotiation, EPA issued a partial conditional approval of the LTCP in December 2020, which requires the Department to submit a revised LTCP within four years and allows 11 years from the date of the letter to complete the work.

Among other requirements, the Consent Decree will require capital expenditures to the System in a total amount of approximately \$1.65 billion. See “THE WATER AND SEWER SYSTEM CAPITAL IMPROVEMENT PLAN” herein. Failure to comply with the Consent Decree and meet future established deadlines could result in penalties up to \$3,000 per incident, and up to \$5,000 per day for failure to implement work in a timely manner. The Department has spent just over \$470 million dollars on program projects through June of 2021.

The Department has thus far been successful in meeting all the deadlines established by the Consent Decree and is currently in compliance with the Decree in all respects.

Payments in Lieu of Taxes, the Local Cost Allocation Plan, and Shared Government Services

Tennessee law, Tennessee Code Annotated §§ 7-34-115(a)(9), provides that a municipality may require a municipally owned utility to make payments in lieu of ad valorem property taxes, for which the utility is exempt as a governmental entity, in an amount not to exceed the taxes payable on privately owned property of a similar nature. This payment is intended to help reimburse the municipality for the municipal services and support provided to the public works. In 1996, the Metropolitan Council adopted Substitute Resolution Number R96-177, which requires the Department to make an annual payment to the Metropolitan Government of \$4,000,000. In 2020, the Metropolitan Council adopted Resolution Number R20-154, requiring the Department to make an annual payment to the Metropolitan Government of \$10,000,000. The total \$14,000,000 represents a payment in lieu of ad valorem taxes. This payment, made in monthly installments, is made after payments of debt service on the Metropolitan Government’s water revenue bonds.

The Local Cost Allocation Plan (LOCAP) for the Metropolitan Government is a method by which central service costs are distributed across the various departments of the Metropolitan Government. In Fiscal Year 2020 and Fiscal Year 2021, the Department was charged \$6,292,700 and \$6,510,300 respectively. In Fiscal Year 2022 this plan will cost the Department \$7,379,800. The Metropolitan Government charges the Department for additional Shared Government Services such as Fleet Management, Information Systems, Legal Fees, Insurance, and Property Services. These additional charges totaled \$6,663,700 in Fiscal Year 2020, \$7,907,300 in Fiscal Year 2021, and budgeted for \$8,712,100 in Fiscal Year 2022.

Payments in Lieu of Taxes, the Local Cost Allocation Plan payments, as well as all Shared Services charges have been included in the historical and forecasted Expenses of the Department in the Forecast Statement.

The Water and Sewer System Capital Improvement Plan

The Water System

The Metropolitan Government’s Water System dates back to the late 1800’s. Over sixty five percent (65%) of the Water System is at least forty (40) years old. More than 150 miles of water main are over eighty (80) years old. The Water Infrastructure Rehabilitation (“WIR”) program provides for the rehabilitation and/or replacement of old water distribution infrastructure. The 12th Ave South project is a multi-phased construction project that will replace 52,720 linear feet of water mains at a cost of \$21 million. The Castleman Drive water main replacement project, currently underway, will replace 8,400 feet of unlined, cast-iron pipe with new 8 and 12 inch main at a cost of \$ 2.7 million. Other WIR projects, similar in scope and size, including phased projects in the Sylvan Park, East Nashville, Jefferson South, Albion / DB Todd, Centennial and Charles E. Davis amongst other areas, will account for \$180 million over the next six years.

Water System Capital Improvement Plan

In addition to projects identified in the WIR program, the Department maintains the Master Water Improvement Plan, which sets out projected water needs based on population forecasting and hydraulic modeling (the “Water Plan”). The Water Plan was last updated in 2016 and the next revision will be completed in early 2022. To prepare for anticipated growth across the service area, the Water Plan has identified several projects, totaling over \$65 million in the next six years to provide both capacity and redundancy in the overall system. In 2019, the Department completed the Cumberland/City Low project, installing 24,000 feet of 36-inch to 60-inch water mains,

at a cost of \$32.9 million, to support distribution of water in the event that one of the water treatment plants goes offline.

Future identified projects intended to add redundancy to the System include installation of a redundant 24-inch water main for the Airport Pressure zone; installation of redundant 60-inch water main from the Omohundro Water Treatment Plant, a redundant 60-inch water main from the KRH Water Treatment Plant to the approximate midpoint of the Cumberland/City Low water main project. Currently underway and partially funded through SRF Loans, is the 8th Ave Reservoir Tank in Tank project which will update the historic structure (Est 1890's) structure with a new 14M gallon steel tank. Future identified projects intended to add capacity to the System include installation of 6,000 feet of new 24-inch water main in Brick Church Lane to Belle Arbor; installation of 3,000 feet of new 16-inch main in Ashland City Highway; installation of 11,000 linear feet of a 24-inch water main along Central Pike; installation of 4,000 feet of a 12-inch water main in Clarksville Pike; installation of 4,000 feet of a 12-inch water main in Brick Church Lane to Knight Road; and the optimization of two reservoirs to meet current hydraulic patterns.

Finally, improvements at the water plants are also critical to meeting the needs of the service area. A new raw water pump station and additional clearwell capacity, increasing rated capacity from 90 million gallons per day to 120–150 million gallons per day, and finished water pump station improvements at the Omohundro Water Treatment Plant have been identified as needed improvements. The Department recently completed an 18-month pilot study to identify the best technologies for both current and potential future regulations based on the Cumberland River source water. As a result, post filter granular activated carbon is the selected process that will position the Department to best meet current and future regulations for the growing service area. Combined into one large multifaceted, multi-phased project, “Water Treatment Plant Process Advancements,” work at both the Omohundro and KR Harrington Water Plants is anticipated to cost just under \$642 million over the next six years. The project has just been initiated with an Engineer Design Team. The Department has been invited to apply for a Water Infrastructure Finance and Innovation Act (WIFIA) loan for a portion of this funding and that process is underway.

The Sewer System

In September of 2011, the CAP/ER and the LTCP studies were submitted to EPA and TDEC. A schedule was developed to pursue those projects to meet the compliance date of the Consent Decree, which is eleven years following the approval of the plan. While waiting for approval of these plans, Water Services implemented numerous projects related to the CAP/ER taking advantage of the additional time for completion. EPA approved the CAP/ER in August 2017, setting a deadline for compliance of August 2028. The LTCP received a partial conditional approval in December 2020, with a compliance deadline of December 2031.

Sewer System rehabilitation continues for the elimination of inflow and infiltration from the separated sanitary sewer system. Rehabilitation projects identified in the CAP/ER recently completed include Smith Springs Area 2, \$4.7 million; Cowan Area 4/5, \$6.0 million; Shelby Area 5, \$5.0 million; Loves Branch, \$4.5 million; Hidden Acres, \$1.3 million and Vandiver, \$3.9 million. Design for sewer rehabilitation has been completed on Smith Springs Area 3 Rehab, Shelby Park Area 6 – Trunk Line Rehab, Seven Mile Creek Area 1, Shepherd Hills, and Dry Creek. These projects are awaiting bidding. Design for sewer rehabilitation is underway for 28th Avenue Area 2, Cleeces Ferry Area 1 and Lakewood Area 2.

Equalization Projects (“EQ Projects”) are included in the CAP/ER to temporarily store excess flow during heavy rainfall events, before returning the stored flow to the collection system for treatment. Construction has been completed on the West Park EQ Project at \$15 million, and on the Ewing Creek EQ Project at \$9.4 million. Construction is underway for the Davidson Branch Pump Station and EQ Project at \$29.8 million, and for the Gibson Creek EQ Project at \$19 million. Design has initiated for the Mill Creek Trunk and EQ Project, estimated to cost \$200 million, making it the second largest project under the Consent Decree Program. A construction manager at risk (“CMAR”) has also been selected for the Mill Creek project.

The largest project under the Consent Decree Program is the Central Wastewater Treatment Capacity Improvements and CSO Reduction project which will both reduce CSOs and make necessary process improvements. At a cost of approximately \$400 million, this construction project includes increasing capacity for the Central Pumping Station, increasing treatment capacity for peak flows by forty percent (40%), upgrading the aeration system, and replacing chlorine disinfection with ultraviolet light. The Central project is under construction utilizing a CMAR for project delivery and is scheduled for completion in December 2023.

The following table illustrates the proposed spending for capital improvements by the Department during the Fiscal Years ending June 30, 2021, through June 30, 2025. Capital projects in the forecast period will be funded from the revenues of the Department, proceeds from Commercial Paper, issuance of new revenue bonds, or a combination of these. The plan as shown assumes additional funding will be available from an increase in water and sewer rates, thus increasing the amount of operating revenues available to the Department and/or issuance of new revenue bonds, with the resultant change to debt service requirements.

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THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY

**DEPARTMENT OF WATER AND SEWERAGE SERVICES
WATER AND SEWER CAPITAL IMPROVEMENT PLAN
(For Fiscal Year 2021 through Fiscal Year 2025)**

	2021	2022	2023	2024	2025	TOTAL
<u>CONSENT DECREE PROGRAM:</u>						
Program Management and Water Quality	\$ 11,900,000	\$16,200,000	\$ 17,100,000	\$ 18,600,000	\$ 14,800,000	\$ 78,600,000
Combined Sewer Improvements	41,000,000	60,000,000	100,000,000	85,000,000	90,000,000	376,000,000
Sanitary Sewer Rehabilitation	262,000,000	3,500,000	12,000,000	36,000,000	16,000,000	329,500,000
Total Consent Decree Program	\$314,900,000	\$79,700,000	\$129,100,000	\$139,600,000	\$120,800,000	\$784,100,000
<u>OTHER:</u>						
Water Distribution System Improvements	\$ 32,027,016	\$ 55,229,352	\$ 50,201,826	\$ 66,878,720	\$ 71,207,906	\$ 275,544,819
Water Pump Station Improvements	2,337,000	2,155,000	2,456,000	3,076,000	2,292,000	12,316,000
Water Plant Improvements	30,451,763	50,446,813	150,000,000	60,000,000	50,000,000	340,898,576
Water Reservoir Improvements	2,700,000	16,650,000	3,100,000	9,450,000	2,950,000	34,850,000
Development Assistance	16,011,003	15,137,775	13,748,178	17,501,000	16,928,280	79,326,855
Customer Services/Information Services	6,675,000	20,925,000	5,825,000	8,125,000	5,925,000	47,475,000
Vehicles and Equipment	3,715,000	4,600,000	4,500,000	4,500,000	3,500,000	20,815,000
Wastewater Collection System Improvements	3,715,619	4,699,803	7,223,987	3,921,706	3,299,910	22,861,025
Wastewater Plant Improvements	57,374,600	48,666,257	28,863,395	27,838,755	24,133,224	186,876,230
Wastewater Pump Station Improvements	1,558,000	1,470,000	1,804,000	2,384,000	1,528,000	8,744,000
Other	4,030,000	3,800,000	3,800,000	3,650,000	3,570,000	18,850,000
Total Other Capital Projects	\$160,595,000	\$223,780,000	\$271,522,385	\$207,325,801	\$185,334,319	\$1,048,557,505
TOTAL	\$475,495,000	\$303,480,000	\$400,622,385	\$346,925,801	\$306,134,319	\$1,832,657,505
<u>SOURCES OF FUNDS:</u>						
Extension and Replacement Fund	\$ 90,000,000	\$ 90,000,000	\$120,000,000	\$120,000,000	\$150,000,000	\$ 570,000,000
Proceeds from Long-Term Debt	-	-	130,000,000	-	-	130,000,000
Commercial Paper Program	214,000,000	228,000,000	233,000,000	170,000,000	165,000,000	1,010,000,000
Other Short-Term Financing	2,205,000	15,433,000	8,819,000	8,819,000	8,817,000	44,093,000
Water Impact Fees	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
Sewer Impact Fees	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	50,000,000
TOTAL	\$321,205,000	\$348,433,000	\$506,819,000	\$313,819,000	\$338,817,000	\$1,829,093,000

Source: The Metropolitan Government of Nashville and Davidson County, Department of Water and Sewerage Services.

APPENDIX C
DEMOGRAPHIC INFORMATION RELATED TO THE METROPOLITAN GOVERNMENT

DEMOGRAPHIC INFORMATION RELATED TO THE METROPOLITAN GOVERNMENT

Introduction

The Metropolitan Government of Nashville and Davidson County (“the Metropolitan Government”), as created in 1963, is in the north central part of Tennessee and covers 533 square miles. Nashville is the capital of the State of Tennessee and is situated in the Nashville Basin, between the Tennessee River on the west and the Eastern Highland Rim on the east. Nashville is a center for the music, healthcare, publishing, private prison, banking and transportation industries, and is home to numerous colleges and universities. Largely due to its association with the music industry, the Metropolitan Government has a vibrant tourism industry. The Metropolitan Government sits at the center of a 13-county metropolitan statistical area with a population of approximately 1.9 million, located at the intersections of Interstates 24, 40 and 65.

Fiscal Year

The Metropolitan Government operates on a fiscal year, which commences July 1 and ends June 30.

Population Growth

The following table illustrates information regarding the population growth in the Metropolitan Government. A comparison with the Nashville Metropolitan Statistical Area (“MSA”), the State of Tennessee and the United States serves to illustrate relative growth:

DEMOGRAPHIC STATISTICS – POPULATION GROWTH (For the Calendar Years 2010-2020 Estimates)

Geographical Area	2010	2020 Estimates	Changes 2010 – 2020 Estimates
Nashville/Davidson	626,681	694,176	10.8%
MSA	1,670,900	1,961,232	19.1%
State of Tennessee	6,346,105	6,886,834	8.5%
United States	308,745,538	329,484,123	6.7%

Source: United States Census Bureau (www.census.gov).

The following table illustrates the per capita personal income growth within the MSA that has occurred to the greatest extent in surrounding communities; notwithstanding, the suburbs of Nashville are in themselves residential, manufacturing and agricultural communities:

PER CAPITA PERSONAL INCOME (For the Calendar Years 2011- 2020)

Geographical Area	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Nashville/Davidson	\$48,870	\$50,101	\$49,541	\$53,347	\$55,872	\$58,817	\$62,718	\$68,709	\$72,602	\$71,659
MSA	44,236	46,653	46,895	49,400	52,149	53,903	55,903	59,105	61,516	62,076
State of Tennessee	37,751	39,418	39,519	40,841	42,648	43,637	45,134	47,203	49,009	51,046
United States	42,783	44,614	44,894	47,017	48,891	49,812	51,811	54,098	56,047	59,510

Source: United States Bureau of Economic Analysis (www.bea.gov).

Economy of the Metropolitan Area

Nashville has a diverse economy, having considerable involvement in commerce and industry, education and government. Agriculture is also a major factor in the economy of the surrounding counties. Insurance, finance, publishing, banking, healthcare, music, tourism, manufacturing and distribution are all mainstays of the economy. Lack of dependency on one industry has helped to insulate Nashville from the impact of product business cycles. Businesses have been attracted to Nashville because of its location, work force, services and taxes. The central

location of Nashville, approximately halfway between Houston and New York, has contributed to its emergence as an important wholesale and retail center.

Employment

The following table illustrates the labor force segments of the eight-county Nashville Metropolitan Statistical Area for the Calendar Years 2016 through 2020:

**METROPOLITAN STATISTICAL AREA
EMPLOYMENT BY INDUSTRY
(For the Calendar Years 2016 through 2020)**

Employment Industries	2016	2017	2018	2019	2020
Total Employed – All Industries ⁽¹⁾	951	984	1,016	1,046	1,000
<i>(In Percentages):</i>					
Education & Health Services	15.41%	15.26%	15.10%	14.83%	15.19%
Financial Activities	6.60%	6.73%	6.73%	6.79%	7.05%
Government	12.07%	11.86%	11.67%	11.50%	11.97%
Information	2.40%	2.38%	2.30%	2.37%	2.39%
Leisure & Hospitality	11.09%	11.26%	11.47%	11.62%	9.74%
Manufacturing	8.65%	8.59%	8.30%	8.10%	7.86%
Professional & Business Services	16.33%	16.38%	16.63%	16.71%	16.95%
Trade, Transportation, Utilities	19.09%	19.02%	19.10%	19.31%	19.87%
Other	8.35%	8.52%	8.68%	8.75%	9.00%

⁽¹⁾ Total Nonfarm Employment in Thousands.

Source: United States Bureau of Labor Statistics (www.bls.gov)

The following table illustrates the unemployment percentage rates in Davidson County, the MSA, the State of Tennessee and the United States for the Calendar Years 2011-2020:

**UNEMPLOYMENT RATES
(For the Calendar Years 2011-2020)**

Geographical Area	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Nashville/Davidson	7.6%	6.3%	5.9%	5.0%	4.3%	3.6%	2.8%	2.6%	2.5%	8.0%
MSA	7.9	6.6	6.2	5.2	4.5	3.8	2.9	2.7	2.6	6.9
State of Tennessee	9.1	8.0	7.8	6.6	5.6	4.7	3.7	3.5	3.4	7.5
United States	8.9	8.1	7.4	6.2	5.3	4.9	4.4	3.9	3.7	8.1

Source: United States Bureau of Labor Statistics (www.bls.gov)

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THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
PRINCIPAL EMPLOYERS
(For the Fiscal Year Ended June 30, 2021)

PRINCIPAL EMPLOYERS	NUMBER OF EMPLOYEES	PERCENTAGE OF TOTAL EMPLOYMENT
Vanderbilt University/VUMC	33,146	3.32%
State of Tennessee	24,039	2.41
Metro Nashville-Davidson County Government and Public Schools	19,152	1.92
United States Government	13,518	1.36
Nissan North America Inc.	11,000	1.10
Healthcare Corporation of America	10,500	1.05
Saint Thomas Health	8,335	0.84
Randstad	4,550	0.46
Asurion	4,400	0.44
Community Health Systems	3,928	0.39
TOTAL	132,565	13.29%

Sources: Principal Employers and Number of Employees – Nashville Area Chamber of Commerce, Nashville Business Journal
Total Employment – TN Department of Labor & Workforce Development

Business Investment and Job Creation

Since July 1, 2021, the Nashville Area Chamber of Commerce announced 4 business relocations or expansions into Davidson County, collectively bringing 726 new jobs into Metro Davidson County. Continued expansion has occurred in recent years in corporate and regional headquarters, the technology industry, manufacturing, health care management and many areas where the local economy has established strength and growth potential.

Over the past several years, many sizable headquarters, shared service operations, and manufacturing operations have relocated and/or expanded in Nashville or announced their intention to do so. Amazon has hired 2,500 of 5,000 employees for its Center of Excellence, and the first of Amazon’s two Nashville Yards office buildings has opened. During the 2021-2022 Fiscal Year to date (July 2021- present), Capgemini, the global IT consulting firm, announced it will invest \$20.1 million to establish operations in Nashville. Headquartered in France and located in 50 countries, Capgemini will create a minimum of 500 new jobs, with projected growth of up to 1,000, as the company launches its first Tennessee delivery center at Broadwest in Nashville. In addition, London-based retirement fintech company Smart has chosen Nashville for its US Headquarters. The project will create nearly 130 new jobs and a \$2.2 million investment in Davidson County.

Other successes in Davidson County include the establishment of the first Amazon Air cargo aircraft at Nashville International Airport. Amazon Air will use over 39,000 square feet of space at BNA. Amazon Air's Nashville gateway will include an onsite area to sort packages bound for their next destination and will be managed by an Amazon logistics partner, LGSTX Cargo Services. The site is expected to support more than 70 jobs. Furthermore, Firestone Building Products announced the expansion of its Nashville operations. Headquartered in Nashville with operations worldwide, Firestone Building Products was recently acquired by Holcim Participations (US) Inc., a global leader in sustainable building solutions. The project represents 28 new jobs and a \$13 million investment in Davidson County.

Manufacturing

As of December 2020, an average of 78,600 persons were employed in the manufacturing industries in the MSA, engaging in a wide range of activities and producing a variety of products, including food, tobacco, textiles and furnishings, lumber and paper, printing and publishing, chemical and plastics, leather, concrete, glass, stone, primary metals, machinery and electronics, motor vehicle equipment, measuring and controlling devices, and

consumer products. Nashville MSA's largest manufacturing employers include Nissan North America, Bridgestone Americas, Electrolux Home Products, A.O. Smith Water Products and Vought Aircraft Industries.

Trade

Nashville is the major wholesale and retail trade center for the MSA and some 50 counties in the central region of the State, southern Kentucky and northern Alabama, a retail trade area of more than 2.3 million people with consumer spending by Nashville MSA residents exceeding \$32.0 billion. Nashville is one of the top 50 retail markets in the country. In the Nashville region, there are 245 shopping centers with 37.3 million square feet of gross leasable area. Nine of these centers are super-regional and 15 are regional.

Agriculture

Nashville is surrounded by agricultural-based economies. The area encompassing middle Tennessee produces livestock, dairy products, soybeans, small grain, feed lot cattle, strawberries, hay and tobacco.

Transportation

Nashville serves as a conduit or trans-shipment point for much of the traffic between the northeast and southeast United States. Three interstate highways extending in six directions intersect in Nashville in addition to nine Federal highways and four State highways. Barge service on the Cumberland River, together with good rail and air services, give Nashville an excellent four-way transportation network.

The Cumberland River, connecting Nashville and the surrounding area to the Gulf of Mexico and intermediate points on the Ohio and Mississippi Rivers, is used by 51 commercial operators, 18 of which serve Nashville. With the completion of the Tennessee-Tombigbee Waterway in 1985, Cumberland River freight is able to reach the Port of Mobile, thereby eliminating approximately 600 miles of the distance from Nashville to the open sea and contributing to the development of foreign trade in Nashville. In addition, the Federal Government in 1982 approved Nashville as a Foreign Trade Zone, a secured area supervised by the United States Customs Service, which provides for the storing of foreign merchandise without duty payments.

The CSX System, a major national railroad, serves Nashville. In addition, five major rail lines link Nashville to all major markets in the nation. Rail carriers interchange freight and cooperate in providing and extending transit privileges covering both dry and cold storage and the processing or conversion of materials. A commuter rail service from Lebanon, Tennessee to Nashville, approximately 32 miles, known as the Music City Star, commenced transportation services in the September of 2006. It is operated under the direction of the Regional Transportation Authority, a multi-county agency. The ticket price includes Metropolitan Transportation Authority bus service on circulator routes in the downtown area.

A commuter rail service from Lebanon, Tennessee to Nashville, approximately 32 miles, known as the Music City Star commenced transportation services in the September of 2006. It is operated under the direction of the Regional Transportation Authority, a multi-county agency. The ticket price includes Metropolitan Transportation Authority ("MTA") bus service on circulator routes in the downtown area.

In 1973, the Metropolitan Government acquired the net assets of the Nashville Transit Company, and the Metropolitan Transit Authority ("MTA") was established. MTA provides a comprehensive public transportation system covering the entire metropolitan area. In addition to regularly scheduled bus routes, MTA provides special transportation services for the handicapped and operates bus service in the downtown area for shoppers, tourists and downtown workers. The revenues derived from the transit system are not sufficient to pay the expenses incurred in the operation of the System. The Metropolitan Government and the State of Tennessee contributed, in the Fiscal Year ending June 30, 2021, approximately \$27.576 million and \$5.098 million, respectively, to pay approximately 37.1% of the Authority's operating expenses. The State of Tennessee directs revenues from a two cent per gallon gasoline tax, which it imposes on local governments that may be applied to mass transit. The contribution of the Metropolitan Government was paid from its general revenues.

The Metropolitan Nashville Airport Authority (the "Airport Authority") owns Nashville International Airport and John C. Tune Airport. Funding for the Airport Authority's capital and operating expenses is provided exclusively from Airport Authority revenues. Nashville International Airport (BNA) is situated approximately eight

miles from downtown Nashville. For the Fiscal Year ended June 30, 2021, the Nashville International Airport served more than 10.3 million passengers on 22 airlines with 251 average daily flights to 88 nonstop destinations.

The Airport Authority also operates the John C. Tune Airport in the Cockrill Bend Industrial Area west of Nashville. The John C. Tune Airport serves the needs of regional corporate and private aircraft and allows Nashville International Airport's air carrier traffic to flow with fewer constraints. John C. Tune Airport also provides a pilot training environment and modern facilities for the transient and corporate operator.

Construction

Construction in Nashville is illustrated by the table on the following page describing the number and value of building permits issued by the Department of Codes Administration of the Metropolitan Government.

The third quarter of 2021 reported Nashville's direct office vacancy to be 15.8%, and the current sublease vacancy of 2.2% has seen little change since the beginning of this year. Overall market rent is up 5.5% year-over-year at \$31.33 per square foot, and class A rents continue to surge, recorded at \$35.63 psf. Nashville's office market recorded more than 460,000 square feet (sf) of new leasing activity throughout third quarter of 2021. Revance Therapeutics expanded its space by 30,000 sf at Gulch Union. In the CBD, new construction deals included Kimley-Horn at Peabody Plaza for 24,000 sf and K&L Gates at 501 Commerce for 28,000 sf. Brookfield's 501 Commerce is now 77.0% leased. Nashville recorded more than 250,000 sf of positive absorption for third quarter 2021, a healthy sign of the office market rebounding from 2020. Nearly 200,000 sf of new office product completed in Nashville during the third quarter 2021, bringing year-to-date (YTD) deliveries to 1.9 million square feet (msf). In Wedgewood-Houston, A.J. Capital's Nashville Warehouse delivered (200,000 sf) 20.0% preleased with LiveNation as the building's anchor tenant. Throughout 2021, the majority of new development has been focused in the urban core with significant projects such as Broadwest (611,770 sf), Taylor Place (83,000 sf), Voorhees/Antiques (48,000 sf), and Amazon HQ I (552,773 sf) all delivering this year. This trend shows no sign of slowing down with over 2.5 msf currently under construction and 92.0% of the development being located in the CBD and Midtown submarkets.

In the industrial sector, overall industrial vacancy ended the third quarter of 2021 at 3.2%. Industrial rent growth decreased slightly from last quarter at \$5.05 psf. Nashville's industrial market recorded more than 2.1 million square feet (msf) of leasing activity for the third quarter of 2021, bringing transaction volume to nearly 6.0 msf year-to-date. More than 1.7 msf of new construction completed in the third quarter of 2021, and the industrial market posted nearly 12.0 msf of product currently under construction, which is the highest amount of under construction volume ever recorded for Nashville. Development is split 65.0% speculative and 35.0% build-to-suit. Over the last two years, demand in the Nashville industrial market has remained incredibly strong. Since the fourth quarter of 2019, leasing activity has outpaced new deliveries consistently.

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**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
NUMBER AND VALUE OF BUILDING PERMITS
(For the Calendar Years 2011-2020)**

Calendar Year	RESIDENTIAL CONSTRUCTION		NON-RESIDENTIAL CONSTRUCTION		REPAIRS, ALTERATIONS, AND INSTALLATIONS		OTHER ⁽¹⁾		Total Number of Permits	Total Permit Value
	Number of Permits	Permit Value	Number of Permits	Permit Value	Number of Permits	Permit Value	Number of Permits	Permit Value		
2011	2,166	372,440,931	444	382,483,854	3,163	377,053,306	1,840	18,738,180	7,613	1,150,716,271
2012	2,656	526,206,509	735	621,590,087	4,850	431,579,639	2,047	34,340,897	10,288	1,613,717,132
2013	3,406	737,396,336	762	493,330,146	3,405	455,745,450	2,135	23,344,644	9,708	1,709,816,576
2014	4,579	1,163,334,572	696	692,801,880	3,244	397,757,642	2,522	23,934,719	11,041	2,277,828,813
2015	5,774	1,428,091,853	762	937,747,113	2,988	441,598,956	2,862	38,771,613	12,386	2,846,209,535
2016	5,858	1,751,681,098	1,136	1,607,184,808	2,737	562,151,606	2,694	21,911,674	12,425	3,942,929,186
2017	5,537	1,084,398,438	1,196	1,996,276,985	2,342	572,053,980	2,642	24,394,733	11,717	3,677,124,136
2018	5,536	989,334,771	866	1,931,789,059	2,458	639,160,352	2,771	15,622,773	11,431	3,575,906,955
2019	5,195	968,600,069	1,056	2,598,254,537	2,374	607,178,804	2,388	26,243,063	11,013	4,200,276,473
2020	5,065	1,087,364,258	1,262	2,849,430,768	2,245	637,530,427	2,893	48,416,444	11,465	4,658,741,897

⁽¹⁾ Includes moved residential buildings, house trailers, and the demolition of residential and non-residential buildings and signs & billboard permits.

Source: The Metropolitan Government of Nashville and Davidson County Department of Code Administration.

Healthcare

Nashville is one of the nation's leaders in the healthcare field. HCA Healthcare has its headquarters and operates several hospitals in the surrounding area. Vanderbilt University Medical Center and St. Thomas Hospital are Nashville's other primary hospitals.

The Metropolitan Government relocated the city-owned hospital, the Metropolitan Nashville General Hospital, to Hubbard Hospital of Meharry Medical College in 1998. In addition, Meharry provides medical staff to the Metropolitan Nashville General Hospital. The arrangement provides Nashville with a renovated facility staffed with residents from Meharry Medical College.

Higher Education

The Nashville Metropolitan Statistical Area (the "Nashville MSA") has 15 colleges and universities, including Vanderbilt University, Belmont University, Tennessee State University, David Lipscomb University, Meharry Medical College, Nashville State Technical Institute and Fisk University. Total higher education enrollment exceeds 65,000 students annually.

Seven of Nashville's institutions of higher education offer graduate programs. Nashville is also a leading center for medical research and education with Vanderbilt University emphasizing medical research in addition to its programs in other disciplines and with Meharry Medical College specializing in healthcare delivery.

Professional Sports

The Metropolitan Government is home to four professional sports franchises, all of which are located in or near downtown Nashville. The National Hockey League's ("NHL") Nashville Predators has played their hockey games in the Bridgestone Arena for the past 21 years. Nashville hosted the NHL All-Star game in 2017. The National Football League's ("NFL") Tennessee Titans have played their football games in Nissan Stadium since 1999. Nashville hosted the NFL Draft in 2019. The Nashville Sounds—the AAA affiliate of the Milwaukee Brewers—play their baseball games in First Horizon Ballpark. Nashville Soccer Club became a member of the MLS and currently plays its games at Nissan Stadium until the new MLS Stadium is completed.

Cultural Facilities

Library System

The Nashville Public Library system includes a 300,000 square feet downtown main library and 20 community branches located across the Davidson County. In addition, an extensive online offering of books and resources has extended its reach beyond the traditional branch system. The library facilities host numerous in-house programs and community events throughout the year. In the Fall of 2019, the State of Tennessee completed the construction in downtown Nashville of a 165,000 square foot library and archives.

Performing Arts

The Tennessee Performing Arts Center (the "Arts Center") is the first state-funded facility of its kind in the United States and is home to the Nashville Ballet, the Nashville Opera Association, and the Tennessee Repertory Theatre. The Arts Center occupies an entire city block, and its venues include Andrew Jackson Hall, which contains 2,472 seats, the James Polk Theater, which contains 1,075 seats, the Andrew Jackson Theater, which contains 256 seats, and the War Memorial Auditorium, which contains 1,661 seats. The Arts Center hosts numerous events each year, including an annual series of Broadway plays. The Nashville Children's Theater is home to the oldest professional theater for children in Davidson County. Thousands of school age children and adults are treated to a variety of productions each year. The Schermerhorn Symphony Center is an 1,844-seat concert hall located in downtown Nashville, which hosts the Nashville Symphony.

Museums and Visual Arts

The Frist Art Museum occupies the former Nashville's historic downtown former post office building. A public-private partnership between the Metropolitan Government, the Frist Foundation and the Dr. Thomas F. Frist, Jr. family, the Frist Center contains more than 24,000 square feet of gallery space capable of showcasing major national and international visual arts exhibitions.

The Parthenon, located in Nashville's Centennial Park, is a full-scale replica of the original building in Athens, Greece. The reproduction was built to honor Nashville's reputation for education and has attracted visitors since 1897. The recently restored building serves as Nashville's permanent art museum, holding a collection of paintings by 19th and 20th century American artists.

Cheekwood Botanical Garden and Art Museum is a 55-acre site that includes the original Cheek gardens, with pools, fountains, statuary, extensive boxwood plantings and breathtaking views of the rolling Tennessee hills. The Museum of Art is housed in a 30,000-square foot Georgian-style mansion and contains world-class collections of American and contemporary paintings and sculptures, English and American decorative arts and traveling exhibitions. Collections also include silver, and the most comprehensive collection of Worcester porcelain in America.

Vanderbilt University's Fine Arts Gallery showcases six exhibitions each year that represent Eastern and Western art and an international collection of works. The Van Vechten Gallery at Fisk University houses more than 100 pieces from artists like Picasso, Renoir, and O'Keeffe. For religious art, there's a wooden 8-foot-by-17-foot carving of "The Last Supper" based on Leonardo da Vinci's masterpiece at The Upper Room Chapel along with a striking 9,000-mosaic stained glass World Christian Fellowship Window. The museum at the Upper Room also has outstanding religious works, besides two annual displays of nearly 70 Ukrainian Easter eggs in April and more than 100 Nativity scenes in December.

The Country Music Hall of Fame and Museum is one of the world's largest and most active popular music research centers and the world's largest repository of country music artifacts. In May 2001, the Country Music Hall of Fame and Museum moved to a new 130,000 square foot facility in downtown Nashville. In 2014, this venue expanded to 350,000 square feet to connect to the new Omni headquarters hotel.

The Adventure Science Center features a state-of-the-art planetarium as well as exhibits and programs which focus on geology, zoology, ecology, physics and other sciences. The Nashville Zoo at Grassmere is a zoological garden and historic plantation farmhouse located six miles from downtown. The Nashville Zoo contains over 6,000 individual animals and attracts approximately 950,000 visitors annually.

A new Tennessee State Museum located in downtown Nashville opened to the public in October 2018, and includes six exhibitions, a children's gallery, interactive tables and screens, and documentary films.

The National Museum of African American Music opened in the Fall of 2020 in downtown Nashville, directly across Broadway from the Bridgestone Arena.

Music Concert Venues

The Metropolitan Government hosts large concert events at both Bridgestone Arena and Nissan Stadium. Smaller indoor venues include the Ryman Auditorium, the 2,362-seat original home of the Grand Ole Opry – and the new Grand Ole Opry, the 4,372-seat theater venue located near Gaylord Opryland Resort & Convention Center that hosts America's longest running live radio show. The Metropolitan Government opened the Ascend Amphitheater in 2015, which maintains capacity of 6,800 and is located downtown, adjacent to the Cumberland River. The 4,500-seat Woods Amphitheatre at Fontanel is located nine miles north of downtown Nashville.

Tourism

Tourism is a major industry in Nashville, as this industry consistently ranks in the top three producers. The Nashville Convention and Visitors Corporation (NCVC) and Tourism Economics estimate that visitors to Nashville spent an estimated \$4.4 billion in 2020.

As of November 2021, the Nashville MSA has 464 hotels operating with more than 54,254 rooms. The table below illustrates the Nashville MSA's available hotel rooms and occupancy rates for the calendar years 2011 through 2020:

THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY
MSA HOTEL AND MOTEL ROOMS / OCCUPANCY RATE
(For the Calendar Years 2011-2020)

Calendar Year	Rooms Available	Occupancy Rate
2011	35,727	63.50%
2012	36,263	66.80%
2013	37,124	69.80%
2014	37,824	72.50%
2015	38,721	73.70%
2016	40,558	75.10%
2017	41,733	74.10%
2018	44,335	73.30%
2019	47,676	73.50%
2020	50,654	40.88%

Source: The Metropolitan Nashville and Davidson County Conventions and Visitors Corporation.

Conventions and Corporate Meetings

Nashville's Music City Convention Center (the "Music City Convention Center") opened in May 2013, and features a 350,000 square foot exhibit hall, 75,000 square feet of ballroom space (consisting of a 57,000 square foot grand ballroom and an 18,000 square foot junior ballroom), 90,000 square feet of meeting rooms, 31 loading docks and a parking garage with 1,800 spaces. The Music City Convention Center's location created a high demand for hotel rooms, particularly full-service properties. An 800-room full-service Omni headquarters hotel opened in September 2013 next to the Music City Convention Center. In the Fall of 2016, a 454-room full-service Westin Hotel opened adjacent to the Music City Convention Center. Also, a 533-room J W Marriott Hotel opened in 2018. Several smaller hotels have also opened near the Music City Convention Center. The Music City Convention Center and its adjacent hotels are located within walking distance of Nashville's downtown entertainment district.

Located approximately ten miles from downtown Nashville is the Gaylord Opryland Resort & Convention Center, the third largest hotel/convention center under one roof in the United States. The complex features 2,881 hotel rooms, 263,000 square feet of exhibit space and 300,000 square feet of meeting space. SoundWaves, a half-indoor-half-outdoor water park at Gaylord Opryland opened in May of 2019. SoundWaves spans four acres and contains 111,000 square feet of indoor attractions, dining and amenities, as well as 106,000 square feet of outdoor water attractions. Adjacent to the Gaylord Opryland Resort & Convention Center is the Grand Ole Opry, and Opry Mills Mall, which is a 1.1 million square foot megamall that opened in May of 2000. The Opry Mills Mall contains 200 stores, theme restaurants, a 20 screen multi-theater complex and an IMAX theater.

Downtown Entertainment District

Nashville's downtown entertainment district encompasses approximately 20 square blocks centered around the historic Lower Broadway. Lower Broadway consists primarily of historic brick restaurants and bars that feature

live music with no cover charge. Many of the restaurants and bars are owned and/or sponsored by current and past music artists. Lower Broadway is a short walk to the Music City Center and its adjacent hotels, Nissan Stadium, Bridgestone Arena, the Ryman, the Country Music Hall of Fame and Museum and most other downtown Nashville attractions.

The Convention Center, Omni Hotel, Westin Hotel and J W Marriott Hotel are located downtown in the Metropolitan Government's Central Business District, and are within walking distance of many notable attractions, including, the Bridgestone Arena, the Ryman Auditorium, Frist Center for the Visual Arts, Schermerhorn Symphony Center, Musicians Hall of Fame and Museum and the Johnny Cash Museum.

Seasonal, Festival and Sporting Events

Downtown Nashville annually hosts several seasonal, festival and sporting events. Downtown Nashville hosts one of the nation's largest New Year's Eve parties each year, with approximately 100,000 people coming to downtown for fireworks and live music. Nashville also hosts a four-day music festival each June known as CMA Music Fest. This event includes performances by more than 100 entertainers and groups, autograph sessions and activities directed at the attendees. Nissan Stadium hosts the college football Music City Bowl each December, and the Bridgestone Arena is a regular host for Southeastern Conference and NCAA Men's and Women's basketball tournaments.

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APPENDIX D
FORM OF OPINION OF BOND COUNSEL

Proposed Form of Opinion of Bond Counsel

January 11, 2022

The Metropolitan Government of Nashville
and Davidson County
Nashville, Tennessee

U.S. Bank National Association
New York, New York

Morgan Stanley & Co. LLC
New York, New York

**The Metropolitan Government of Nashville and Davidson County
Water and Sewer Revenue Extendable Commercial Paper Notes, 2015 Program**

Ladies and Gentlemen:

We have acted as Bond Counsel in connection with the issuance by The Metropolitan Government of Nashville and Davidson County (the “Metropolitan Government”) of up to \$200,000,000 in aggregate principal amount of its Water and Sewer Revenue Extendable Commercial Paper Notes, 2015 Program (the “Notes”). In such capacity, we have examined the law and such certified proceedings and other documents as we deemed necessary to render this opinion, including, but not limited to, Resolution No. RS2015-1417, as supplemented and amended by Substitute Resolution No. RS2021-906 and Resolution No. RS2021-1281 (collectively, the “Resolution”), authorizing the issuance and sale of the Notes. The terms used herein, but not defined herein, shall have the respective meanings given such terms in the Resolution.

As to questions of fact material to our opinion, we have relied upon the certified proceedings and other certifications of public officials and others furnished to us without undertaking to verify such facts by independent investigation.

Based on the foregoing, we are of the opinion, as of the date hereof, as follows:

1. The Notes have been duly authorized, executed and issued in accordance with the constitution and laws of the State of Tennessee and are valid and binding obligations of the Metropolitan Government.
2. The Resolution authorizing the Notes has been duly and lawfully adopted, is in full force and effect and is the valid and binding agreement of the Metropolitan Government enforceable in accordance with its terms.
3. The Notes constitute limited obligations of the Metropolitan Government, payable from and secured solely by a pledge of the revenues of the Metropolitan Government’s water and sewer system, subject to costs of operating the system and subject to prior pledges of such revenues in favor of (a) the Metropolitan Government’s Water and Sewer Revenue Bonds Federally Taxable, Series 2010B (Build America Bonds – Direct Payment); Water and Sewer Revenue Bonds Federally Taxable, Series 2010C (Recovery Zone Economic Development Bonds); Water and Sewer Revenue Bonds, Series 2013; Water and Sewer Revenue Bonds, Series 2017A (Green Bonds); Water and Sewer Revenue Bonds, Series 2017B; Water and Sewer Revenue Bonds, Series 2020A; Water and Sewer Revenue Bonds, Series 2020B; State Revolving Fund Loans Nos. 2020-223, 2020-224 and 2020-446; Water and Sewer Revenue Bonds, Series 2021A (Green

Bonds) and Federally Taxable Water and Sewer Revenue Refunding Bonds, Series 2021B (Green Bonds) (collectively, the "Prior Lien Bonds") and (b) any other long-term bonds hereafter issued by the Metropolitan Government on parity with the Prior Lien Bonds and/or pursuant to the Prior Lien Bond Resolutions (as such term is defined in the Offering Memorandum for the Notes). The pledge of revenues to the payment of the Notes is on parity with the pledge in favor of the Metropolitan Government's Water and Sewer Revenue Commercial Paper Notes, Series 2022.

4. Interest on the Notes is excluded from gross income for federal income tax purposes pursuant to Section 103 of the Internal Revenue Code of 1986, as amended (the "Code"), and interest on the Notes is not treated as an item of tax preference in calculating the alternative minimum tax imposed on individuals under the Code. The opinion set forth in the preceding sentence is subject to the condition that the Metropolitan Government comply with all requirements of the Code that must be satisfied subsequent to the date hereof in order that interest thereon be, or continue to be, excluded from gross income for federal income tax purposes. The Metropolitan Government has covenanted to comply with all such requirements. Failure to comply with certain of such requirements could cause interest on the Notes to be so included in gross income retroactive to the date of issuance of the Notes. Except as set forth in this paragraph, we express no opinion regarding other federal tax consequences arising with respect to the Notes.
5. Under existing law, the Notes and the income therefrom are exempt from all present state, county and municipal taxes in Tennessee except (a) Tennessee excise taxes on all or a portion of the interest on the Notes during the period such Notes are held or beneficially owned by any organization or entity, other than a sole proprietorship or general partnership, doing business in the State of Tennessee, and (b) Tennessee franchise taxes by reason of the inclusion of the book value of the Notes in the Tennessee franchise tax base of any organization or entity, other than a sole proprietorship or general partnership, doing business in the State of Tennessee.

It is to be understood that the rights of the owners of the Notes and the enforceability of the Notes and the Resolution may be limited by bankruptcy, insolvency, reorganization, moratorium, and other similar laws affecting creditors' rights generally and by equitable principles, whether considered at law or in equity.

We express no opinion herein as to the accuracy, adequacy or completeness of the Offering Memorandum relating to the Notes.

This opinion is given as of the date hereof, and we assume no obligation to update or supplement this opinion to reflect any facts or circumstances that may hereafter come to our attention or any changes in law that may hereafter occur.

Very truly yours,

BASS, BERRY & SIMS PLC

APPENDIX E
SUMMARY OF ECP RESOLUTION

Definitions

"Act" means Title 9, Chapter 21, Tennessee Code Annotated, as amended from time to time.

"Authorized Officer" means the Director of Finance of the Metropolitan Government and any other persons authorized in writing by the Director of Finance of the Metropolitan Government to act as an Authorized Officer under the Resolution.

"Bond Counsel" means Bass, Berry & Sims PLC or any other firm of attorneys specializing in the field of municipal finance law, selected by the Metropolitan Government.

"Bonds" means water and sewer revenue bonds of the Metropolitan Government authorized by the Initial Resolutions.

"Book-Entry ECP" means ECP issued in book-entry only form through the Depository.

"Business Day" means any day other than (i) a Saturday, (ii) a Sunday, (iii) a State legal holiday, (iv) a day on which banking institutions in Nashville, Tennessee, New York, New York, or the city in which the Office of the Issuing and Paying Agent is located, or the city in which the principal office of the Dealer is located, are authorized or obligated by law or executive order to be closed, (v) a day on which the New York Stock Exchange is not open for trading, or (vi) with respect to the Book-Entry ECP, a day on which the Depository is not scheduled to be open for money market instrument settlement services.

"Code" means the Internal Revenue Code of 1986, including regulations, rulings and judicial decisions promulgated thereunder.

"Costs" shall mean any of the costs of Projects permitted to be financed by the Act.

"Current Initial Resolutions" means Resolution No. RS2009-994, Resolution No. RS2013-620, Resolution No. RS2020-214 and Resolution No. RS2021-1147 of the Metropolitan Government.

"Dealer" means Morgan Stanley & Co. LLC, appointed by the Metropolitan Government pursuant to the Resolution to serve as dealer for the ECP Program in accordance with the Dealer Agreement, and any other dealer for the ECP Program or any successor to any of them appointed pursuant to the Resolution.

"Dealer Agreement" means each Dealer Agreement authorized by the Resolution, as the same may be amended or supplemented, and any other dealer agreement which the Metropolitan Government determines to be in replacement thereof as may be entered into by the Metropolitan Government from time to time with respect to the ECP Program.

"Depository" means (i) DTC, (ii) any other Person appointed by the Metropolitan Government to serve as securities depository for the Master Note, and (iii) in each such case, its successors and assigns.

"Director of Law" means the Director of Law of the Metropolitan Government appointed pursuant to the provisions of the Charter of the Metropolitan Government or, in the absence of such appointment or in the event the person so appointed is unable or incapable of acting in such capacity, the person appointed by the Metropolitan Mayor to undertake the duties otherwise performed by the Director of Law, or his designee or the Deputy Director of Law acting as the Director in the event of a vacancy in that position under the authority of Section 8.604 of the Charter of the Metropolitan Government.

"DTC" means The Depository Trust Company, New York, New York, and its successors and assigns.

"ECP" or "ECP Notes" means water and sewer revenue bond anticipation notes of the Metropolitan Government issued in the form of extendable commercial paper in accordance with the Resolution.

"ECP Fund" means the special purpose trust fund described below to be held by the Issuing and Paying Agent for the benefit of the Holders from time to time of ECP for the deposit of proceeds of ECP and other moneys to be used to pay the principal of and interest on Outstanding ECP, and the payment therefrom of principal of and interest on Outstanding ECP.

"ECP Program" means a program of the Metropolitan Government consisting of the issuance from time to time of ECP.

"Electronic Means" means telecopy, facsimile transmission, e-mail transmission or other similar electronic means of communication providing evidence of transmission, including a telephonic communication confirmed by any other method set forth in this definition.

"EMMA" means the Electronic Municipal Market Access of the Municipal Securities Rulemaking Board.

"Extended Maturity Date" means, for each ECP Note, a Business Day that is the earlier of: 1) 270 days after its Issue Date and 2) the Final Maturity Date.

"Extended Period Interest Payment Date" means: (i) if the applicable Original Maturity Date is before the 15th day of the month, the first Business Day of the next month and the first Business Day of each month thereafter; and (ii) if the applicable Original Maturity Date is on or after the 15th day of the month, the first Business Day of the second succeeding month and the first Business Day of each month thereafter.

"Extension Rate" means, for each ECP Note, the rate of interest per annum established under the Resolution for each weekly period from and after the Original Maturity Date.

"Final Maturity Date" means January 1, 2026.

"Holder" means any Person who is in possession of any ECP issued or endorsed to such Person or to the order of such Person or to bearer or in blank; provided, however, that "Holder", when used with reference to Book-Entry ECP evidenced by a Master Note, and such Master Note, shall mean the registered owner of such Master Note as shown on the books of the Issuing and Paying Agent kept pursuant to the Resolution.

"Initial Resolutions" means, collectively, (i) the Current Initial Resolutions; and (ii) future initial resolutions adopted by the Metropolitan County Council of the Metropolitan Government for the purpose of financing capital improvements to the System; provided that any future initial resolution must first be published as prescribed by the Act.

"Issuance Request" means a request made by the Metropolitan Government, acting through an Authorized Officer, to the Issuing and Paying Agent for the delivery of ECP Notes, as described below.

"Issue Date" means, for each ECP Note, the date on which beneficial ownership is transferred to the original purchaser thereof.

"Issuing and Paying Agency Agreement" means the Issuing and Paying Agency Agreement authorized by the Resolution, as the same may be amended or supplemented, and any other issuing and paying agency agreement which the Metropolitan Government determines to be in replacement thereof as may be entered into by the Metropolitan Government from time to time with respect to the ECP Program.

"Issuing and Paying Agent" means U.S. Bank National Association, appointed by the Metropolitan Government pursuant to the Resolution to serve as Issuing and Paying Agent and registrar in accordance with the Issuing and Paying Agency Agreement, and any successor thereto appointed pursuant to the Resolution.

"Master Note" means a master note issued pursuant to the Resolution.

"Maximum Rate" means, as of any time, the rate equal to the lesser of (a) 9% per annum, calculated on the basis of actual days elapsed and a 365 or 366 day year, or (b) the maximum rate of interest at the time permitted by Section 47-14-103, Tennessee Code Annotated, or other applicable State law.

"Metropolitan Government" means The Metropolitan Government of Nashville and Davidson County.

"Moody's" means Moody's Investors Service, Inc., or any successor, then maintaining a rating on ECP at the request of the Metropolitan Government.

"Office" means, when used with reference to the Issuing and Paying Agent, such address as the Issuing and Paying Agent may designate from time to time by notice in writing to the Metropolitan Government and the Dealer.

"Operation and Maintenance Expenses" shall mean the current expenses, paid or accrued, of operation, maintenance and repair of the System, including administration costs, as calculated in accordance with generally accepted accounting principles. Notwithstanding the foregoing, Operation and Maintenance Expenses shall not include payments in lieu of taxes or any reserve for renewals or replacements or any allowance for depreciation or amortization, and there shall be included in Operation and Maintenance Expenses only that portion of the total administrative, general and other expenses of the Metropolitan Government which are properly allocable to the System.

"Original Maturity Date" means, for each ECP Note, a Business Day not less than 1 day and not greater than: i) the 90th day after the Issue Date, or ii) the 90th day preceding the Final Maturity Date.

"Original Rate" means, for each ECP Note, the rate of interest per annum borne by such ECP Note to the Original Maturity Date.

"Outstanding" means, when used as of any particular time with reference to ECP, all ECP theretofore or thereupon issued pursuant to the Resolution except (i) ECP theretofore canceled by the Issuing and Paying Agent or surrendered to the Issuing and Paying Agent for cancellation; (ii) ECP with respect to which, and only to the extent, all liability of the Metropolitan Government shall have been discharged in accordance with the defeasance provisions described below; and (iii) ECP in lieu of, or in substitution for, which other ECP has been or is then being issued by the Issuing and Paying Agent pursuant to the terms of the Resolution.

"Person" means an individual, corporation, firm, association, partnership, limited liability company, trust, or other entity or organization, including a government or political subdivision or an agency or instrumentality thereof.

"Prevailing Rating" means, at the time of determination and with respect to a Rating Agency, the rating assigned to the ECP Notes by the Rating Agency or any comparable future designation by the Rating Agency.

"Prior Lien Bond Resolutions" means, collectively, the Water and Sewer Bond Resolution and the Subordinate Lien Bond Resolution.

"Prior Lien Bonds" means, collectively, all bonds, notes or other debt obligations issued pursuant to the Prior Lien Bond Resolutions, and any other bonds, notes or debt obligations issued on parity therewith.

"Program Documents" means, collectively, the Resolution, the Dealer Agreement and the Issuing and Paying Agency Agreement.

"Projects" means those capital improvements to the System described in the Initial Resolutions.

"Rating Agency" means either or both of Moody's and S&P, and/or such other securities rating agencies providing a rating on ECP, at the request of the Metropolitan Government.

"Resolution" means the Resolution, as the same may be amended or supplemented.

"Revenues" means (a) all revenues, income, rents, service fees and receipts properly allocable to the System resulting from ownership and operation of the System, excluding any customer deposits or other deposits subject to refund, unless such deposits have become property of the Metropolitan Government, (b) the proceeds of any insurance covering business interruption loss relating to the System and (c) interest received or to be received on any moneys or securities held in any of the funds or accounts established by the Prior Lien Bond Resolutions, with the exception of (i) moneys held in any Construction Fund established under the Prior Lien Bond Resolutions, or any account thereof and (ii) moneys held in any Debt Service Reserve Fund established under the Prior Lien Bond Resolutions during any period in which the investment earnings thereon are directed by resolution supplemental thereto to any Construction Fund established under the Prior Lien Bond Resolutions, or any account thereof. The computation of Revenues with respect to any period of time hereunder shall be increased by the amount of transfers during such period from the Rate Stabilization Fund (as defined in the Water and Sewer Bond Resolution) to the Revenue Fund described in the Prior Lien Bond Resolutions pursuant to Section 509(a) of the Water and Sewer Bond Resolution, and decreased by the amount of any transfers during such period from the Revenue Fund to the Rate Stabilization Fund pursuant to Section 506(e) of the Water and Sewer Bond Resolution. "Revenues" shall not include any Tax Credit Payments (as defined in the Prior Lien Bond Resolutions), grant proceeds or, except as set forth in (b) above, insurance proceeds.

"S&P" means S&P Global Ratings, or any successor, then maintaining a rating on ECP at the request of the Metropolitan Government.

"SIFMA" means the Securities Industry and Financial Markets Association (formerly the Bond Market Association) or any successor thereto.

"SIFMA Index" means (i) the seven-day high grade market index of tax-exempt variable rate demand obligations, as produced by Municipal Market Data and published or made available by SIFMA or any Person acting in cooperation with or under the sponsorship of SIFMA or (ii) if such index is not published, such other publicly available rate as the Dealer shall deem most nearly equivalent thereto. Such index may be expressed as a percentage of (more or less than, or equal to, 100%) and/or a fixed spread to another index.

"State" means the State of Tennessee.

"Subordinate Lien Bonds" means any of the Metropolitan Government's bonds, notes or other debt obligation hereafter issued under the Subordinate Lien Bond Resolution, on a lien subordinate to those other bonds issued pursuant to the Water and Sewer Bond Resolution.

"Subordinate Lien Bond Resolution" means Resolution No. RS2011-114 of the Metropolitan Government, as supplemented and amended.

"System" means each and every part of the water system and sewer system of the Metropolitan Government that shall be owned and operated by the Metropolitan Government for water supply, transmission, treatment and distribution and for sewage collection, transmission, treatment and disposal or distribution now existing and hereafter acquired by lease, contract, purchase or otherwise or constructed, including any interest or participation of the Metropolitan Government in any facilities in connection with said system, together with all additions, betterments, extensions and improvements to said system or any part thereof hereafter constructed or acquired and together with all lands, easements, licenses and rights of way and all other works, property or structures and contract rights and other tangible and intangible assets now or hereafter owned or used in connection with or related to said system. Notwithstanding the foregoing definition of the term "System", such term shall not include any properties or interests in properties of the Metropolitan Government (a) which the Metropolitan Government determines shall not constitute a part of the System for the purpose of the Prior Lien Bond Resolutions at the time of the acquisition thereof by the Metropolitan Government or (b) as to which there shall be filed with the records of the Metropolitan Government a certificate of a Consultant (as defined in the Prior Lien Bond Resolutions) stating, in its opinion, that the exclusion of such properties or interests in properties from the System will not materially impair the ability of the Metropolitan Government to comply during the current or any future Fiscal Year with the provisions of Sections 711 of the Prior Lien Bond Resolutions.

"Tax Certificate" means a certificate, as amended from time to time, executed and delivered on behalf of the Metropolitan Government by an Authorized Officer on the date upon which ECP Notes are initially issued and delivered, or any functionally equivalent certificate subsequently executed and delivered on behalf of the Metropolitan Government by an Authorized Officer with respect to the requirements of Section 148 (or any successor section) of the Code relating to the ECP Notes.

"Traditional Notes" means the Metropolitan Government's Water and Sewer Revenue Commercial Paper Notes, Series 2022.

"Water and Sewer Bond Resolution" means Substitute Resolution No. RS2010-1442 of the Metropolitan Government, as supplemented and amended.

"Water and Sewer Bonds" means bonds, notes or other obligations issued pursuant to the Water and Sewer Bond Resolution.

References to Time

All references to time shall, unless otherwise stated, be deemed to be to the prevailing time in New York, New York.

Security and Sources of Payment

The ECP Notes are payable primarily from the proceeds of subsequently issued ECP Notes and the proceeds of the Bonds. Additionally, the ECP Notes shall constitute and be limited obligations of the Metropolitan Government payable from and secured solely by a pledge of the Revenues of the System, subject to the application thereof pursuant to the terms of the Prior Lien Bond Resolutions (including, without limitation, to the payment of Operation and Maintenance Expenses) and subject to the prior pledge of such Revenues in favor of the Prior Lien Bonds. The pledge of Revenues to the payment of the ECP Notes is on parity with the pledge thereof in favor of the Traditional Notes.

ECP Fund

(a) The Resolution creates and establishes with the Issuing and Paying Agent a separate and special purpose trust fund for the benefit of the Holders to be designated as the "Metropolitan Government Water and Sewer Revenue Extendable Commercial Paper Fund" (the "ECP Fund"). The Issuing and Paying Agent shall have the sole right of withdrawal over the moneys in the ECP Fund, except as may otherwise be described below.

(b) Subject to the application of Revenues in the manner described above, the Metropolitan Government may deposit Revenues or proceeds of its Bonds or other indebtedness into the ECP Fund for the purpose of paying the principal of and/or interest on Outstanding ECP.

(c) The Issuing and Paying Agent, as agent for the Holders from time to time of ECP, shall:

(i) Upon the sale of ECP on any day, deposit to the ECP Fund an amount of the proceeds thereof, which, together with any funds otherwise on deposit in the ECP Fund on such day is sufficient to pay the principal of and interest on Outstanding ECP maturing or being redeemed on such day, and use such proceeds and other funds (if applicable) to pay the principal of and interest on such Outstanding ECP;

(ii) Upon the sale of ECP on any day, to the extent the proceeds thereof are in excess of the amount required by subsection (i), transfer the balance of such excess to the Metropolitan Government;

(iii) deposit into the ECP Fund the proceeds of Bonds, notes or other evidences of indebtedness transferred to the Issuing and Paying Agent by or on behalf of the Metropolitan Government, and apply such deposits to the payment of the principal of and interest on Outstanding ECP, or otherwise, as an

Authorized Officer shall specify from time to time in written instructions filed with the Issuing and Paying Agent; and

(iv) apply the moneys on deposit in the ECP Fund solely to the payment of the principal of and interest on the ECP, as aforesaid, as the same mature and become due and payable, or otherwise as provided above.

(d) Amounts on deposit in the ECP Fund as proceeds of ECP to be used to pay the principal of and/or interest on other ECP as required by subsection (c)(i) of this Section shall not be invested prior to their application for such purposes. Other amounts on deposit in the ECP Fund may be invested prior to their application for authorized purposes, but only at the direction of an Authorized Officer, and only in securities held in the name of the Metropolitan Government or the Issuing and Paying Agent as trustee for

(e) the Metropolitan Government (in either case, either as registered or beneficial owner), and otherwise shall not earn interest.

The ECP Fund, and all moneys and securities on deposit therein, shall be held by the Issuing and Paying Agent in a fiduciary capacity and shall not be commingled with the assets of the Issuing and Paying Agent or any other person. It is the intent of the Metropolitan Government that the ECP Fund, and all moneys and securities on deposit therein, shall constitute a special deposit and not a general deposit of the Issuing and Paying Agent.

Issuance Requests

(a) The Issuing and Paying Agent shall authenticate and deliver ECP Notes from time to time for the consideration and in the manner hereinafter provided, but only upon receipt by the Issuing and Paying Agent of an Issuance Request, no later than 12:00 Noon on the Business Day on which ECP Notes are to be delivered, directing the Issuing and Paying Agent to authenticate the ECP Notes referred to therein and to deliver the same to or upon the order of the Dealer. Each Issuance Request shall include:

- (i) the aggregate principal amount of ECP Notes then to be issued;
- (ii) the denominations in which they are to be issued;
- (iii) the Original Rate;
- (iv) the Issue Date;
- (v) the Original Maturity Date;
- (vi) the Extended Maturity Date; and
- (vii) any additional designations thereof.

(b) The delivery of any Issuance Request under subsection (a) hereof to the Issuing and Paying Agent by an Authorized Officer in the manner provided therein shall constitute the certification and representation of the Metropolitan Government to the Issuing and Paying Agent that, as of the date thereof:

(i) after the issuance of such ECP Notes and the application of the proceeds thereof, (1) the sum of the aggregate principal amount of ECP Notes Outstanding will not exceed \$200,000,000 and (2) the sum of the aggregate principal amount of ECP Notes Outstanding, together with all other Bonds, notes or other indebtedness issued pursuant to the Initial Resolutions, will not exceed the amount of indebtedness authorized by the Initial Resolutions;

(ii) to the Metropolitan Government's knowledge there has been no change in the facts, estimates, circumstances and representations of the Metropolitan Government set forth or made in the Tax Certificate;

(iii) the Original Maturity Date set forth in the Issuance Request does not extend beyond 90 days prior to the Final Maturity Date;

(iv) the Extended Maturity Date of such Commercial Paper Notes set forth in the Issuance Request does not extend beyond the Final Maturity Date;

(v) the Metropolitan Government has not been notified by Bond Counsel that its opinion with respect to the validity of the ECP Notes and the tax treatment of the interest thereon has been revised or withdrawn or, if any such revision or withdrawal has occurred, the revised opinion or a substitute opinion acceptable to the Dealer has been delivered;

(vi) to the actual knowledge of the Metropolitan Government, the Metropolitan Government in in compliance with the terms of the Resolution; and

(vii) all of the conditions precedent to the issuance of such ECP Notes set forth in this Section of the Resolution have been satisfied.

(c) The Metropolitan Government may deliver an Issuance Request for the issuance of multiple ECP Notes on multiple dates in the future, and shall have the right to rescind such notice with respect to any issue of ECP Notes to be issued until 11:00 a.m. on any date ECP Notes are to be issued.

(d) No later than 2:30 p.m. on each Business Day on which the Metropolitan Government proposes to issue ECP Notes, the Dealer shall report to the Metropolitan Government each transaction made with or arranged by it or shall notify the Metropolitan Government and the Issuing and Paying Agent of the difference, if any, between the amount of maturing ECP Notes and the amount of ECP Notes which the Dealer has arranged to sell or has agreed to purchase.

(e) Upon receipt of such Issuance Request (which may be transmitted by mail, telecopy or other electronic communications method, or by telephone, promptly confirmed in writing by 2:00 p.m.), the Issuing and Paying Agent shall, by 3:00 p.m. on such day, complete each ECP Note as to amount, Issue Date, Original Maturity Date, Extended Maturity Date and Original Rate specified in such Issuance Request, and deliver each such ECP Note to or upon the order of the Dealer upon receipt of payment therefor. If an Issuance Request is received after 12:00 Noon on a given day, the Issuing and Paying Agent shall not be obligated to deliver the requested ECP Notes until the next succeeding Business Day.

(f) Notwithstanding the foregoing, the Issuing and Paying Agent shall not deliver any ECP Notes if:

(i) such delivery would cause the sum of the aggregate principal amount of ECP Notes Outstanding to exceed \$200,000,000;

(ii) the Issuing and Paying Agent shall have received notice from an Authorized Officer directing the Issuing and Paying Agent to cease authenticating and delivering ECP Notes until such time as such direction is withdrawn by similar notice;

(iii) the Issuing and Paying Agent shall have received notice from Bond Counsel that its opinion regarding the exclusion of interest on the ECP Notes from gross income for Federal income tax purposes of the holders thereof is being withdrawn;

(iv) the Original Maturity Date of such ECP Notes would extend beyond the 90th day preceding the Final Maturity Date; or

(v) the Extended Maturity Date of such ECP Notes would extend beyond the Final Maturity Date.

(g) Any Issuance Request made by telephone pursuant to this Section may be recorded by the Issuing and Paying Agent and shall be confirmed promptly in writing by an Authorized Representative;

(h) provided, however, that any conflict between any recorded oral Issuance Request and the written confirmation thereof, shall not affect the validity of any recorded oral Issuance Request received by the Issuing and Paying Agent as provided in the Resolution. If the Issuing and Paying Agent does not record an oral Issuance Request, and a conflict exists between such oral Issuance Request and the written confirmation thereof, the terms of the written confirmation shall control.

(i) The purchase price of each Note shall be 100% of the principal amount thereof, and no Note shall be deemed to be issued until payment for its purchase has been made in lawful money of the United States of America.

Proceeds of Sale of ECP

The proceeds of the sale under the Resolution of ECP shall be applied as follows:

(a) The proceeds of each sale of ECP on any day in an amount not in excess of the principal of Outstanding ECP becoming due and payable on such day, and for the payment of which the Metropolitan Government has not theretofore deposited other amounts into the ECP Fund, shall be deemed to have been issued for the purpose of paying such principal, and such proceeds shall be deposited into the ECP Fund and used to pay such principal.

(b) The proceeds of each sale of ECP on any day in an amount in excess of the principal of Outstanding ECP becoming due and payable on such day, if any, and for the payment of which the Metropolitan Government has not theretofore deposited other amounts into the ECP Fund, shall be deemed to have been issued for the purpose of paying Costs and shall be transferred to the Metropolitan Government as directed in writing by an Authorized Officer. Such proceeds shall be held and invested in a segregated fund of the Metropolitan Government in accordance with applicable law and applied exclusively to the Costs.

Issuing and Paying Agent

(a) The Metropolitan Government covenants to maintain and provide an Issuing and Paying Agent at all times while the ECP is Outstanding, which shall be a bank, trust company or national banking association (and, except in the case of Book-Entry ECP, having an office for delivery of ECP in New York, New York), in each case with trust powers. Should a change in the Issuing and Paying Agent for the ECP Program occur, the Metropolitan Government agrees to promptly cause a notice thereof to be posted on EMMA; provided however, that such notice shall not be required to be posted, but shall be delivered to the Depository, if the ECP are being issued as Book-Entry ECP at such time. Such notice shall specify the Office of the successor Issuing and Paying Agent. A successor Issuing and Paying Agent may be appointed without the consent of the Holders.

(b) The Metropolitan Government may remove any Issuing and Paying Agent by giving not less than fifteen (15) days advance written notice to the Issuing and Paying Agent and the Dealer. The Metropolitan Government shall give written notice of the appointment of a successor Issuing and Paying Agent to the Dealer.

(c) The Issuing and Paying Agent may resign at any time by giving written notice of such resignation to the Metropolitan Government and the Dealer specifying the date as of which the Issuing and Paying Agent proposes that the same shall become effective, which date shall be not less than 30 days after the date of such notice. The Metropolitan Government shall give written notice of the appointment of a successor Issuing and Paying Agent to the Dealer.

(d) Notwithstanding subsections (b) and (c) above, no such removal or resignation shall be effective unless and until a successor has been appointed and shall have accepted the duties and obligations of Issuing and Paying Agent under the Resolution. If no successor has been appointed within 30 days as aforesaid, the Issuing and Paying Agent shall have the right to petition a court of competent jurisdiction for the appointment of a successor Issuing and Paying Agent, and the Issuing and Paying Agent shall be reimbursed by the Metropolitan Government for any and all expenses in connection with any such petition and appointment. On the effective date of any such removal or resignation, the Issuing and Paying Agent shall deliver to the successor Issuing and Paying Agent, if any, at the direction of the Metropolitan Government, or otherwise to the Metropolitan Government, all canceled or unissued ECP instruments then held by the Issuing and Paying Agent for disposition in accordance with the Resolution, and shall transfer the funds then held by it to the successor Issuing and Paying Agent, if any, at the direction of the Metropolitan Government, or otherwise to the Metropolitan Government. The Metropolitan Government shall pay all outstanding fees and expenses due and owed to the Issuing and Paying Agent following such removal or resignation.

Covenants

Punctual Payment

The Metropolitan Government will punctually pay or cause to be paid the principal of and interest on the ECP in conformity with the Resolution. For the purpose of providing for the payment of the principal of and interest on Outstanding ECP on the date that the same shall become due and payable, the Metropolitan Government, on or prior to such date, will pay or cause to be paid to the Issuing and Paying Agent for deposit in the ECP Fund, amounts which, together with other amounts then on deposit in such ECP Fund, will be sufficient and available to make such payment on such date. The foregoing is not intended to preclude the Metropolitan Government from extending the maturity date of ECP Notes in the manner described in the Resolution.

Covenant to Refinance

With respect to any ECP Notes the maturity of which has been extended pursuant to the Resolution, the Metropolitan Government covenants that it will promptly seek approval of the Metropolitan County Council for the issuance of Bonds or other debt obligations to refinance such ECP Notes and, provided such approval is received, to offer and sell such Bonds or other debt obligations upon reasonable and customary terms and conditions so that the proceeds thereof may be applied to the payment of such ECP Notes on or prior to the applicable Extended Maturity Date.

Compliance with Agreements and Other Documents

The Metropolitan Government will comply with the terms and provisions of the Dealer Agreement, the Issuing and Paying Agency Agreement, the Prior Lien Bond Resolutions and any other resolution or contract to which the Metropolitan Government is a party, the non-compliance with which would materially adversely affect the ability of the Metropolitan Government to make payment of the principal of and interest on the ECP as and when the same becomes due and payable.

ECP to Remain Tax-Exempt

The Metropolitan Government covenants that it will execute and deliver a Tax Certificate in the form prescribed by Bond Counsel in connection with the first issuance of ECP, and that in connection with any subsequent issuance of ECP it will, if requested by Bond Counsel, execute and deliver either written confirmation that the facts, estimates, circumstances and reasonable expectations contained therein continue to be accurate as of such issue date or a revised Tax Certificate dated such issue date. Each Issuance Request by an Authorized Officer given or made pursuant to the Resolution shall constitute a representation by the Metropolitan Government that the facts, estimates, circumstances and reasonable expectations contained in the latest of such Tax Certificates continues to be true and accurate as of the date of such Issuance Request, and that no fact material to the exclusion of the interest on the ECP from gross income for federal income tax purposes exists which has not been reflected in a revised Tax Certificate. The Metropolitan Government represents and covenants that it will not expend, or permit to

be expended, the proceeds of any ECP in any manner inconsistent with its reasonable expectations as certified in the Tax Certificates to be executed from time to time with respect to the ECP Program; provided however, that the Metropolitan Government may expend ECP proceeds in such manner if the Metropolitan Government first obtains an unqualified opinion of Bond Counsel that such expenditure will not impair the exclusion of interest on the ECP from gross income for federal income tax purposes.

The Metropolitan Government further covenants that no use of the proceeds of any of the ECP or any other funds of the Metropolitan Government will be made which will cause any ECP to be "arbitrage bonds" subject to federal income taxation by reason of Section 148 of the Code. To that end, the Metropolitan Government shall comply with all requirements of said Section 148 and of all regulations issued thereunder or otherwise applicable thereto.

The Metropolitan Government covenants that it will not use any proceeds of the ECP or any other funds held under the Resolution for any purpose which would cause any ECP to be subject to treatment as a "private activity bond" defined in Section 141 of the Code.

Reservation of Right to Issue Other Obligations

The Metropolitan Government expressly reserves the right to issue future Bonds, notes or other evidences of indebtedness in addition to the ECP, secured by Revenues of the System, and additionally secured as may be required by the Act or other provisions of law or as determined by the Metropolitan Government, when and as the Metropolitan Government shall determine and authorize.

Amendments and Supplements to the Resolution

The Metropolitan Government, from time to time and at any time, (i) without the consent or concurrence of any Holder of any ECP, may adopt a resolution for the purpose of providing for the issuance of any Bonds, notes or other evidences of indebtedness, and (ii) without the consent or concurrence of any Holder of any ECP, may adopt a resolution amendatory of or supplemental to the Resolution, if the provisions of such resolution shall not materially adversely affect the rights of the Holders of the ECP then Outstanding, for any one or more of the following purposes:

1. to make any changes or corrections in the Resolution as to which the Metropolitan Government shall have been advised by counsel that the same are verbal corrections or changes or are required for the purpose of curing or correcting any ambiguity or defective or inconsistent provision or
2. omission or mistake or manifest error contained in the Resolution, or to insert in the Resolution such provisions clarifying matters or questions arising under the Resolution as are necessary or desirable;
3. to add additional covenants and agreements of the Metropolitan Government for the purpose of further securing the payment of the ECP;
4. to confirm as further assurance any lien, pledge or charge, or the subjection to any lien, pledge or charge, created or to be created by the provisions of the Resolution;
5. to grant to or confer upon the Holders of the ECP any additional rights, remedies, powers, authority or security that lawfully may be granted to or conferred upon them;
6. to comply with any request by or requirement of any Rating Agency which is necessary, or which the Metropolitan Government reasonably believes is necessary, to prevent a downward revision by such Rating Agency in the rating of ECP;
7. to provide for the issuance, transfer, exchange, registration, discharge from registration and replacement of ECP other than Book-Entry ECP; and

8. to increase the maximum aggregate principal amount of ECP that may be Outstanding at any time; provided however, that prior to the effectiveness thereof the Metropolitan Government shall have received written evidence from each Rating Agency to the effect that such increase will not, by itself, result in a reduction, withdrawal or suspension of such Rating Agency's rating of the ECP Program which then prevails; and

9. to modify any of the provisions of the Resolution in any other respect if such modification shall be effective only with respect to ECP issued subsequent to the effectiveness of such resolution or modification, in which case any ECP instrument (except any Master Note) issued subsequent to the effectiveness of any such modification shall contain a specific reference to, and the Metropolitan Government shall give written notice to the Depository of Book-Entry ECP of, the modifications contained in such resolution; *provided, however*, that nothing contained in the Resolution shall permit or be construed to permit the amendment of the terms and conditions of the Resolution or of the ECP Program so as to:

- a. make any change in the maturity of any Outstanding ECP;
- b. reduce the rate of interest borne by any Outstanding ECP;
- c. reduce the amount of the principal payable on any Outstanding ECP;
- d. modify the terms of payment of principal of or interest on any Outstanding ECP, or impose any conditions with respect to such payment;
- e. affect the rights of the Holders of less than all Outstanding ECP; or
- f. reduce or restrict the provision made in the Resolution for payment of Outstanding ECP.

Defeasance

ECP Deemed Paid; Discharge of Resolution

ECP will be deemed paid for all purposes of the Resolution when (a) payment of the principal of and interest on such ECP to the due date of such principal and interest (whether at maturity or otherwise) either (1) has been made in accordance with the terms of such ECP or (2) has been provided for by depositing with the Issuing and Paying Agent (A) moneys sufficient to make such payment and/or (B) direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America ("Government Obligations") maturing as to principal and interest in such amounts and at such times as will insure the availability of sufficient moneys to make such payment, and (b) all compensation and expenses of the Issuing and Paying Agent pertaining to the ECP Program in respect of which such deposit is made have been paid or provided for to the satisfaction of the Issuing and Paying Agent. When ECP is deemed paid, it will no longer be secured by or entitled to the benefits of the Resolution or be an obligation of the Metropolitan Government, except for payment from such moneys or Government Obligations, and no additional ECP may be issued except that it may be transferred, exchanged, registered, discharged from registration or replaced.

When all outstanding ECP are deemed paid under the foregoing provisions, the Issuing and Paying Agent will, upon the request of the Metropolitan Government, acknowledge the discharge of the Metropolitan Government's obligations under the Resolution and the ECP Program.

No such deposit will be made or used in any manner which, in the opinion of Bond Counsel, would cause any ECP to be treated as "arbitrage bonds" within the meaning of Sections 103 and 141 through 150 of the Code.

Application of Trust Moneys

The Issuing and Paying Agent will hold in trust moneys or Government Obligations deposited with it and apply the deposited money and the proceeds from the Government Obligations in accordance with the Resolution only to the payment of principal of and interest on the ECP with respect to which the same was deposited.

Repayment to Metropolitan Government

The Issuing and Paying Agent will pay to the Metropolitan Government promptly upon its request any excess moneys or securities held by the Issuing and Paying Agent at any time, and any moneys held by the Issuing and Paying Agent under any provision of the Resolution for the payment of principal or interest on ECP that remains unclaimed for one year or such other shorter or longer period, or to such other Person, as may at the time be prescribed by State law with respect to unclaimed property.

Miscellaneous

Notices to Rating Agencies

The Metropolitan Government shall give each Rating Agency, the Dealer and the Issuing and Paying Agent advance notice in writing of any (i) change of Dealer, (ii) change of Issuing and Paying Agent, (iii) amendment or material change to the Program Documents, and (iv) termination or defeasance of the ECP Program; *provided however*, that if the Metropolitan Government does not have advance actual notice of any such event, notice shall be given by the Metropolitan Government as soon as practicable after the Metropolitan Government has actual notice thereof.

Resolution to Constitute a Contract; Equal Security

In consideration of the acceptance of the ECP, the issuance of which is authorized under the Resolution, by those who shall hold the same from time to time, the Resolution shall be deemed to be and shall constitute a contract between the Metropolitan Government and the Holders from time to time of the ECP, and the pledge made by the Resolution by the Metropolitan Government and the covenants and agreements set forth in the Resolution to be performed by the Metropolitan Government shall be for the equal and proportionate benefit, security and protection of all Holders of the ECP, without preference, priority or distinction as to security or otherwise of any of the ECP authorized under the Resolution over any of the others by reason of time of issuance, sale or maturity thereof or otherwise for any cause whatsoever, except as expressly provided in or permitted by the Resolution.

Payment and Performance on Business Days

Whenever under the terms of the Resolution or the ECP Program, the performance date of any provision of the Resolution or ECP Program, including the payment of principal of or interest on the ECP, shall occur on a day other than a Business Day, then the performance thereof, including the payment of principal of and interest on the ECP, need not be made on such day but may be performed or paid, as the case may be, on the next succeeding Business Day with the same force and effect as if made on the originally scheduled date of performance or payment, and, with respect to any payment, without any additional interest accruing after the originally scheduled date of payment.

No Personal Recourse

No recourse shall be had for any claim based on the Resolution or the ECP Program against any member, officer or employee, past, present or future, of the Metropolitan Government, the Metropolitan County Council of the Metropolitan Government or of any successor body under any constitutional provision, statute or rule of law or by the enforcement of any assessment or by any legal or equitable proceeding or otherwise.

Disclosure of Liability

All covenants, stipulations, promises, agreements and obligations of the Metropolitan Government contained in the Resolution shall be deemed to be the covenants, stipulations, promises, agreements and obligations of the Metropolitan Government and not of any member, officer or employee of the Metropolitan Government in his individual capacity, and no recourse shall be had for the payment of the principal of or interest on the ECP or for any claim based thereon or on the Resolution against any member, officer, or employee of the Metropolitan Government, or against any Person executing the ECP.