

Justin P. Wilson
Comptroller

JASON E. MUMPOWER

Deputy Comptroller

March 5, 2020

Honorable Indya Kincannon, Mayor and City Council City of Knoxville P.O. Box 1631 Knoxville, Tennessee 37901

Dear Mayor Kincannon and Members of the Council:

Thank you for your recent correspondence. We acknowledge receipt on February 21, 2020, of a request from the City of Knoxville (the "City") for a report on a plan of refunding (the "Plan") for the City's proposed issuance of an estimated \$30,390,000 Wastewater System Revenue Refunding Bonds, Series 2020.

Pursuant to the provisions of Tennessee Code Annotated Title 9 Chapter 21, enclosed is a report based upon our review of the City's Plan. The Plan, this letter, and the enclosed report should be made available on the City's website and must be presented to each member of the Council for review prior to the adoption of a refunding bond authorizing resolution.

#### Changes to our Office

We are enclosing a memorandum about the newly created Division of Local Government Finance within the Comptroller's Office.

If you should have questions or need assistance, please feel free to contact your financial analyst, William Wood, at 615.401.7893 or <a href="william.Wood@cot.tn.gov">William.Wood@cot.tn.gov</a>. You may also contact our office by mail at the address located at the bottom of this page. Please send it to the attention of your analyst.

Very truly yours,

Betsy Knotts

Director of the Division of Local Government Finance

cc:

Ms. Jean Suh, Contract Audit Review Manager, Division of Local Government Audit

Mr. Gabriel J. Bolas, KUB President and CEO, Knoxville Utilities Board

Mr. Mark Walker, Chief Financial Officer, Knoxville Utilities Board

**Enclosures:** 

Report of the Director of the Division of Local Government Finance

Comptroller's Memorandum Regarding New Division

BK:ww



Justin P. Wilson
Comptroller

JASON E. MUMPOWER

Deputy Comptroller

# Report of the Director of the Division of Local Government Finance Concerning the Proposed Issuance of Wastewater System Revenue Refunding Bonds, Series 2020 Knoxville, Tennessee

This report is being issued pursuant to T.C.A. § 9-21-1003 and is based upon information as presented in a plan of refunding (the "Plan") received by our office on February 21, 2020, from the City of Knoxville (the "City"). Our report provides information to assist the governing body in its responsibility to understand the nature of the refunding transaction, including the costs, risks, and benefits, prior to approving the issuance of the refunding bonds and is designed to provide consistent and comparable information for all local governments in Tennessee.

This report does not constitute approval or disapproval of the Plan or a determination that a refunding is advantageous or necessary nor that any of the refunded obligations should be refinanced or remain outstanding until their respective dates of maturity. This report does not address compliance with federal tax regulations and is not to be relied upon for that purpose. The City should discuss these issues with bond counsel. This report and the City's Plan must be presented to the governing body prior to the adoption of a refunding bond resolution.

## **Refunding Analysis**

At the request of the President and CEO of the Knoxville Utilities Board, our office has reviewed the City's Plan, as required by TCA § 9-21-1003, and provides the following analysis based upon the assumptions outlined in the Plan:

The City intends to issue by competitive sale approximately \$30,390,000 Wastewater System Revenue Refunding Bonds, Series 2020 (the "Series 2020 Refunding Bonds") priced at par to refund \$30,000,000 Wastewater System Revenue Bonds, Series 2010 (Build America Bonds) maturing April 1, 2043 through April 1, 2045.

- The City's objective for the refunding is to achieve net present value debt service savings. The estimated net present value debt service savings is \$7,308,624 or 24.36% of the refunded principal amount of \$30,000,000.
- The City plans to contribute \$74,278 from its cash on hand to the transaction to pay the accrued interest on the Refunded Bonds.
- The final maturity of the Series 2020 Refunding Bonds does not extend beyond the final maturity of the Refunded Bonds.

- The City currently has a Standard & Poor's rating of AA+ on some of its long-term wastewater revenue debt, therefore, the proposed structure of the Series 2020 Refunding Bonds is not balloon indebtedness as defined in T.C.A. § 9-21-134.
- Estimated costs of issuance are summarized below:

	Amount	Price per \$1,000 Bond
Estimated Underwriter's Discount	\$ 228,305	\$ 7.51
Financial Advisor (Cumberland Securities Company)	45,500	1.50
Bond Counsel (Bass Berry & Sims)	34,000	1.12
Rating Agency	68,000	2.24
Miscellaneous Fees (Paying Agent, Etc.)	14,195	0.47
Total Cost of Issuance	\$ 390,000	\$ 12.84

# Financial Information for the Fiscal Year Ended June 30, 2019

For the fiscal year ended June 30, 2019, the District's audited financial statements reflected operating income of \$37,966,027, and a positive change in net position of \$19,477,141. The District's statement of cash flows reflected debt service payments of \$33,447,001, consisting of principal payments of \$12,895,000 and interest payments of \$20,552,001. At June 30, 2019 the District reported \$22,233,080 in unrestricted cash and cash equivalents.

#### **Financial Professionals**

The Plan was prepared with the assistance of the City's financial advisors, Cumberland Securities Inc. Financial advisors have a fiduciary responsibility to the City. Underwriters have no fiduciary responsibility to the City. They represent the interests of their firm and are not required to act in the City's best interest without regard to their own or other interests.

The Municipal Securities Rulemaking Board (MSRB) establishes rules and notices that municipal advisors and underwriters must follow when engaging in municipal securities transactions and advising investors and local governments. To learn more about the obligations of the City's underwriter and municipal advisor, please read the information posted on the MSRB website: <a href="https://www.msrb.org">www.msrb.org</a>.

#### Plan Assumptions

The assumptions of the Plan are the assertions of the City. An evaluation of the preparation, support and underlying assumptions of the Plan has not been performed by our office. This report provides no assurances of the reasonableness of the underlying assumptions. The assumptions included in the City's Plan may not reflect either current market conditions or market conditions at the time of sale. The Series 2020 Refunding Bonds may be issued with a structure different from that of the Plan.

# **Debt Management Policy**

The City has adopted a debt management policy and has indicated in its Plan that the proposed refunding transaction complies with the City's policy.

# Requirements After the Refunding Bonds Have Been Issued

We have included a listing of certain compliance requirements your local government will be responsible for once the bonds are issued. The listing is not all inclusive and you should work with your municipal advisor and bond counsel to ensure compliance with legal and regulatory requirements related to the proposed refunding.

# Effective Date for this Report

This report is effective for a period of ninety (90) days from the date of the report. If the refunding transaction has not been priced during this ninety (90) day period, a new plan of refunding, with new analysis and estimates based on market conditions at that time, must be submitted to our office. We will then issue a report on the new plan for the City Council to review prior to adopting a new refunding bond authorizing resolution.

Betsy Knotts

Director of the Division of Local Government Finance

Date: March 5, 2020

Enclosure: Requirements After Debt is Issued



Justin P. Wilson
Comptroller

JASON E. MUMPOWER Deputy Comptroller

# Requirements After Debt is Issued

# • Annual Budget Approval

Your local government will be subject to an annual budget approval process for the life of the outstanding debt as required by TCA § 9-21-403. Please refer to our online guidance at: <a href="mailto:tncot.cc/budget">tncot.cc/budget</a>.

#### Bonds not Refunded

If all the bonds are not refunded as a part of the proposed refunding transaction and the City wishes to refund them in a subsequent bond issue, then a new plan must be submitted to our office for review.

### • Debt Management Policy

Your local government should regularly review and, if necessary, amend its debt management policy. Please submit any amended policy to our office immediately upon adoption. Guidance concerning debt management policies is available at: <a href="mailto:tncot.cc/debt-policy">tncot.cc/debt-policy</a>.

#### • Required Notification

We recognize that the information provided in the Plan submitted to our office is based on preliminary analysis and estimates and that actual results will be determined by market conditions at the time of sale. However, if it is determined prior to the issuance of the debt, that the actual results will differ significantly from the information provided in the submitted Plan and the City decides to proceed with the issue, the City's governing body and our office should be notified after the sale by the local government's Chief Executive Officer or the Chief Financial Officer regarding these differences. The Chief Executive Officer must state that they were aware of the differences and determined to proceed with the issuance of the debt. Notification will be necessary only if there is a change of ten percent (10%) or more in any of the following:

- (1) An increase in the principal amount of the debt issued;
- (2) An increase in costs of issuance; or
- (3) A decrease in the cumulative savings or increase in the loss.

The notification must include an explanation for any significant differences and the justification for a change of ten percent (10%) or more from the amounts in the plan. This notification should be presented to the City's governing body and our office with the required filing of the Report on Debt Obligation, Form CT-0253.

# • Report on Debt Obligation (State Form CT – 0253)

Pursuant to T.C.A. § 9-21-151(6)(c), a Report on Debt Obligation (the "Report") shall be completed and filed with the governing body of the local government no later than forty-five (45) days after the issuance of the Notes, with a copy (including attachments, if any) filed with the Division of Local Government Finance. The Report and instructions may be accessed at: <a href="mailto:tncot.cc/debt-report">tncot.cc/debt-report</a>. No public entity may enter into additional debt if it has failed to file the Report.

# Rule 15c2-12 of the Securities Exchange Act

Local governments that have issued municipal securities on or after February 27, 2019, are required to report certain information related to the issuance of financial obligations. Information on the reporting requirements is available on the Municipal Securities Rulemaking Board (MSRB) Electronic Municipal Market Access EMMA® website: <a href="mailto:emma.msrb.org">emma.msrb.org</a>.



February 20, 2020

Ms. Sandra Thompson
Director of Office of State and Local Finance
Cordell Hull Building
425 Fifth Avenue North
Nashville, TN 37243-3400

Re: Knoxville Utilities Board / City of Knoxville, Tennessee - Wastewater System

Dear Ms. Thompson:

The Knoxville Utilities Board ("KUB") of the City of Knoxville, Tennessee (the "City") is pleased to enclose for your consideration a report entitled "Plan of Refunding" dated February 20, 2020. This report is being delivered to you to comply with Chapter 34, Title 7 and Chapter 21, Title 9 Tennessee Code Annotated.

**Entity Information:** 

- (A) KUB, governed by a Board of Commissioners, on behalf of the City of Knoxville, Tennessee, governed by the City Council, pursuant to the City's Charter, KUB has full legal authority and controls all aspects of the issuance of the proposed refunding debt.
- (B) Indya Kincannon, Mayor P.O. Box 1631 Knoxville, TN 37901

Gabriel J. Bolas II, KUB President and CEO 445 South Gay Street Knoxville, TN 37902

Mark Walker, KUB CFO (865) 594-7428 445 South Gay Street Knoxville, TN 37902

E-Mail address: gabriel.bolas@kub.org and mark.walker@kub.org

(C) Contacts for additional information:

Financial Advisor: Cumberland Securities Company, Inc. (865-988-2663)

Joe Ayres: joe.ayres@cumberlandsecurities.com and Scott P. Gibson: scott.gibson@cumberlandsecurities.com

Bond Counsel: Bass, Berry & Sims (865-521-0365)
Mark Mamantov: mmamantov@bassberry.com

Timing Information:

(A) March 24, 2020 regularly scheduled City Council Meeting

Specific Request for:

(A) KUB on behalf of the City hereby requests a Report from the Office of State and Local Finance on the enclosed Plan of Refunding pursuant to Chapter 34, Title 7 and Chapter 21, Title 9 Tennessee Code Annotated.

The City, acting by and through KUB, is proposing to refinance the following outstanding obligations: Wastewater System Revenue Bonds, Series 2010, dated February 10, 2010, maturing April 1, 2043 through April 1, 2045 in the outstanding principal amount of \$30,000,000 (the "Series 2010 Bonds").

The enclosed Plan of Refunding outlines the projected structure based upon current market conditions. To maximize flexibility the City's bond resolution will be drafted to authorize the refunding of all or any portion of the above referenced debt. Therefore, the final structure and sizing could vary from the enclosed request based on the final structure of the proposed Bonds.

The City Council is scheduled to meet on Tuesday, March 24, 2020 to discuss the Plan of Refunding and other documents related to this refinancing plan.

If you have any questions or need any additional information with respect to this financing, please do not hesitate to contact me or our Financial Advisor, Mr. Joe Ayres or Mr. Scott P. Gibson at Cumberland Securities Company, Inc. (865-988-2663) at your earliest convenience.

Very truly yours,

Gabriel J. Bolas II President and CEO

c: Mayor Indya Kincannon

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Mr. Joe Ayres

Mr. Mark Mamantov

Enclosure

# Plan of Refunding - Wastewater System

# Knoxville Utilities Board / City of Knoxville, Tennessee

- A) Identification of Key Professionals (including financial advisors, bond counsel, underwriters, or lenders) who have provided advice or proposals on which the Entity relied to prepare the Plan):
  - 1. Underwriter: Determined at Competitive Public Sale
  - 2. Bond Counsel: Bass, Berry & Sims
  - 3. Financial Advisor: Cumberland Securities Company, Inc.
- B) Purpose(s) of Refunding, including parameters:
  - 1. Cost Savings: include a projection of the savings and amortization schedules for both refunding and refunded debt:
    - a. See attached Preliminary Refunding Analysis page 1.
  - 2. Restructuring: provide a comparison of existing and proposed structures, describing why debt is being restructured:
    - a. N/A
  - 3. Covenant change: Clearly describe covenant to be eliminated or revised and any change in the structure:
    - a. N/A
  - 4. Reduction or elimination of risk: describe risk to be reduced or eliminated:
    - a. The proposed refunded bonds are fixed rate and will be refunded with fixed rate bonds, therefore, there will be no change in risk.
- C) Statement that the proposed refunding complies with the Entity's adopted debt management policy and a description of how the transaction is consistent with the policy, including any savings threshold. If there is no adopted policy or the transaction is not consistent, the Entity shall provide a detailed explanation.
  - KUB adopted a debt management policy on November 17, 2011 and amended the
    policy on September 20, 2012. The proposed structure does have savings in excess
    of 3% and does not extend debt past the original life of the issue which is consistent
    with the KUB debt management policy. Additionally, the proposed debt is
    traditional fixed rate debt and is the preferred form of debt under KUB's debt
    management policy.

### D) Other Information

- 1. Amortization schedules for both (proposed) refunding and (outstanding) debt to be refunded,
  - a. Proposed refunding debt schedule: See attached Preliminary Refunding Analysis pages 2.
  - b. Outstanding debt schedule(s): See attached Preliminary Refunding Analysis page 4 and page 5.

### As well as the following:

### 2. Refunding Debt:

- a. Maximum size to be authorized by the governing body, identifying all outstanding debt that could be included in the refunding:
  - i. Maximum size authorized by governing body = \$30,400,000. To refund the Wastewater System Revenue Bonds, Series 2010, dated February 10, 2010, maturing April 1, 2043 through April 1, 2045 in the outstanding principal amount of \$30,000,000 (the "Series 2010 Bonds").
- b. **Anticipated Size** = \$30,395,000
- c. Anticipated final maturity and weighted average maturity. If the final maturity is extended beyond the fiscal year of final maturity of debt to be refunded or the weighted average maturity is increased, list the projects as required below for refunded debt:
  - i. Final Maturity = 4/1/2045 (Same as refunded Debt)
  - ii. Weighted Average Maturity = 14.21 Years
- d. **Estimated Breakdown of Costs of Issuance:** See attached Preliminary Refunding Analysis page 6.
- e. **Estimated Sources and Uses of Funds:** See attached Preliminary Refunding Analysis page 6.
- 3. Refunded Debt: Information must be provided with respect to each debt issue to be refunded; (if all currently outstanding debt will not be refunded, identify maturities that are candidates for refunding).
  - a. Name of issue, type of debt, original terms, including whether the debt is federally tax-exempt or taxable.

i. Wastewater System Revenue Bonds, Series 2010, dated February 10, 2010, maturing April 1, 2043 through April 1, 2045 in the outstanding principal amount of \$30,000,000 (the "Series 2010 Bonds"). The Series 2010 Bonds are tax-exempt, fixed-rate debt, with a final maturity on April 1, 2045.

## b. Date of issue and copy of CT-0253 filed.

i. Date of Issue = February 10, 2010. The CT-0253 was filed with the Office of State and Local Finance in connection with the issue of the Series 2010 Bonds.

# c. Date of authorization by the governing body.

- i. The Series 2010 Bonds were authorized by the City's governing body on December 15, 2009.
- d. Whether bank-qualified or under other small issuer exception.
  - i. No
- e. Projects funded with proceeds of issue and remaining average life of projects (if final maturity or weighted average maturity of debt is extended).
  - i. The purpose of the Series 2010 Bonds being refunded were to provide funds to pay the costs of the construction, renovation, extension and improvements to the System; and to pay costs incident to the issuance and sale of Bonds. The average life of the proposed refunding bonds will not be longer than the average remaining life of the assets financed.

# f. Derivative product, if any, and copy of Report of Compliance:

 There is no derivative agreement associated with the Series 2010 Bonds.

# Knoxville Utilities Board of the City of Knoxville, Tennessee Proposed Wastewater System Refunding

Preliminary Refunding Report

February 20, 2020

# Prepared By:

# Cumberland Securities Company, Inc.

Independent Registered Municipal Advisors P.O. Box 22715

Knoxville, Tennessee 37933

Telephone: (865) 988-2663 Facsimile: (865) 988-1863



**CUMBERLAND SECURITIES** 

SINCE 1931

#### Disclaimer and Disclosures

Cumberland Securities Company, Inc. (the "Advisor") Is registered as a Municipal Advisory firm with the U.S. Securities and Exchange Commission (the "SEC") and the Municipal Securities Rulemaking Board (the "MSRB"). A municipal advisory client brochure is posted on the website of the Municipal Securities Rulemaking Board (www.msrb.org) that describes the protections that may be provided by the Municipal Securities Rulemaking Board rules and how to file a complaint with an appropriate regulatory authority. The Advisor will maintain all required registrations with the SEC and the MSRB and the Advisor will disclose any legal or disciplinary events, including information about any criminal actions, regulatory actions, investigations, terminations, judgments, liens, civil judicial actions, customer complaints, arbitrations and civil litigation, and other detailed information. The Issuer may electronically access the Advisor's most recent Form MA and each employee's most recent Form MA-I filed with the Commission at https://www.sec.gov/edgar/searchedgar/companysearch.html. As of the date hereof, Cumberland Securities Company, Inc. has never had legal or disciplinary event.

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lisk Disclosures:							
Fixed Rate Bonds							
Material Risk Consideration	Description of Risk	Potential Consequences					
Issuer Default Risk	Possibility that the Issuer defaults under the authorizing documents	Range of available remedies may be brought against Issuer (e.g. forcing issuer to raise taxes or rates)     Credit ratings negatively impacted     Access to capital markets impaired     Possibility of receivership or bankruptcy for certain Issuers					
Redemption Risk	The ability to redeem the bonds prior to maturity may be limited	Inability to refinance at lower interest rates					
Refinancing Risk	Possibility that the bonds cannot be refinanced	Inability to refinance at lower interest rates					
Reinvestment Risk	Possibility that the Issuer may be unable to Invest unspent proceeds at or near the interest rate on the bonds	Negative arbitrage resulting in a higher cost of funds					
Tax Compliance Risk	For tax-exempt bonds, possibility that failure to comply with tax-related covenants results in the bonds becoming taxable obligations	Increase in debt service costs retroactively to date of issuance Possible mandatory redemption of bonds affected Risk of IRS Audit Difficulty in refinancing the bonds Access to tax-exempt market impacted Difficulty in Issuing future tax-exempt debt					

Variable Rate I	Demand Bonds ("VRDB") / Floating Rate Notes ("FRN") / Bank Index Loan ("Inde	x") / "Put Loan" (e.g. Fixed Rate for Five (5) Years, then Rate Resets to New Rate)
Material Risk Consideration	Description of Risk (Type of Debt Risk Applicable to)	Potential Consequences
Interest Rate Risk	Possibility that the interest rate may increase on an interest reset date (VRDB, FRN, Index, Put Loans)	Increase in debt service cost (up to maximum rate)     Lower debt service coverage     Lower cash reserves
Index Risk	Possibility that the method of determining the Index (LIBOR or SIFMA) could change Indices may be affected by factors unrelated to FRN's/Index Loan or the tax-exempt market (VRDB, FRN, Index, Put Loans)	Increase in debt service costs     Lower debt service coverage     Lower cash reserves     Provision should be made for alternate mechanism to determine rate
Issuer Default Risk	Possibility that the Issuer defaults under the authorizing documents (VRDB, FRN, Index, Put Loans)	Range of available remedies may be brought against Issuer (e.g., forcing Issuer to raise taxes or revenues) Credit ratings negatively impacted Default could impact remarketing which could cause increase in debt service costs Access to capital markets impaired
Issuer Ratings Downgrade Risk	Possibility that a downgrade of the Issuer's rating(s) may result in optional tenders or an increase in fees payable to the bank providing the liquidity facility (VRDB, FRN, Index, Put Loans)	Ratings change could impact remarketing which could cause an increase in debt service cost     Higher liquidity facility fees resulting in higher cost of funds
Liquidity Risk	Possibility that VRDB's cannot be successfully remarketing, resulting in Bank Bonds (VRDB)	Increase in debt service costs due to higher bank bond rate and accelerated principle repayment     May be required to refinance or term out the VRDO's     Inability to refinance or possibly higher interest rates
Liquidity Provider Default Risk	Possibility that the bank providing the liquidity facility supporting the VRDO's defaults in its obligations under the liquidity facility (VRDB)	Issuer required to repay principal and accrued interest if Issuer is not able to refinance     Increase in debt service costs
Liquidity Provider Ratings Downgrade	Possibility that a downgrade of the liquidity provider's rating(s) may result in optional tenders (VRDB)	Ratings change could impact remarketing which could cause an increase in debt service cost
Refinancing Risk	Possibility that the FRN, Index or Put Loan cannot be remarketed or refinanced (FRN, Index, Put Loans)	Hard Put: must repay principal and accrued interest or Event of Default     Soft Put: higher interest rate on debt and higher debt service costs up to maximum rate     Increase in debt service costs upon any refinancing     Inability to refinance or possibly higher interest rates
Regulatory Risk	Possibility that prospective regulatory requirements increase cost of obtaining and maintaining the liquidity facility (VRDB, FRN, Index, Put Loans)	Increase in debt service costs     Higher liquidity facility fees resulting in higher cost of funds
Reinvestment Risk	Possibility that the issuer may be unable to invest unspent proceeds at or near the interest rate on the bonds (VRDB, FRN, Index, Put Loans)	Negative arbitrage resulting in higher cost of funds
Remarketing Risk	Possibility that the remarketing agent does not perform its duties in a satisfactory manner or may resign or cease its remarketing efforts (VRDB)	Higher Interest rates     Difficulty remarketing the VRDO's     May require appointment of a successor remarketing agent
Renewal Risk	Possibility that the facility or loan will not be extended for a successive commitment period or not be replaced at a reasonable cost (VRDB, FRN, Index, Put Loans)	Issuer required to repay principal and accrued interest on tender date if issuer is not able to refinance     Increase in debt service costs
Tax Compliance Risk	For tax exempt bonds, possibility that failure to comply with tax related covenants result in the bonds becoming taxable obligations (VRDB, FRN, Index, Put Loans)	Increase in debt service costs retroactively to date of issuance Possible mandatory redemption of bonds affected Risk of IRS audit Difficulty in refinancing the bonds Access to tax exempt market impacted Difficulty in Issuing future tax-exempt debt

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# **ESTIMATED SAVINGS ANALYSIS**

# Knoxville Utilities Board of the City of Knoxville, Tennessee Wastewater System Revenue Refunding Bonds, Series 2020

Date	Principal	Estimated Interest Rate	Interest	Total P+I	Refunded D/S	Savings	Present Value to 04/15/2020 at 2.787913%
04/01/2021	960,000.00	1.500%	742,518.40	1,702,518.40	1,280,941.50	(421,576.90)	(406,648.67)
04/01/2022	945,000.00	1.600%	758,162.50	1,703,162.50	1,280,941.50	(422,221.00)	(396,456.04)
04/01/2023	960,000.00	1.650%	743,042.50	1,703,042.50	1,280,941.50	(422,101.00)	(385,422.43)
04/01/2024	975,000.00	1.750%	727,202.50	1,702,202.50	1,280,941.50	(421,261.00)	(374,046.08)
04/01/2025	990,000.00	1.800%	710,140.00	1,700,140.00	1,280,941.50	(419,198.50)	(361,930.60)
04/01/2026	1,010,000.00	1.850%	692,320.00	1,702,320.00	1,280,941.50	(421,378.50)	(353,790.44)
04/01/2027	1,030,000.00	1.900%	673,635.00	1,703,635.00	1,280,941.50	(422,693.50)	(345,106.63)
04/01/2028	1,050,000.00	2.000%	654,065.00	1,704,065.00	1,280,941.50	(423,123.50)	(335,918.37)
04/01/2029	1,070,000.00	2.100%	633,065.00	1,703,065.00	1,280,941.50	(422,123.50)	(325,851.02)
04/01/2030	1,090,000.00	2.250%	610,595.00	1,700,595.00	1,280,941.50	(419,653.50)	(314,959.53)
04/01/2031	1,115,000.00	2.350%	586,070.00	1,701,070.00	1,280,941.50	(420,128.50)	(306,583.45)
04/01/2032	1,145,000.00	2.500%	559,867.50	1,704,867.50	1,280,941.50	(423,926.00)	(300,807.42)
04/01/2033	1,170,000.00	2.550%	531,242.50	1,701,242.50	1,280,941.50	(420,301.00)	(289,921.98)
04/01/2034	1,200,000.00	2.600%	501,407.50	1,701,407.50	1,280,941.50	(420,466.00)	(281,975.95)
04/01/2035	1,230,000.00	2.650%	470,207.50	1,700,207.50	1,280,941.50	(419,266.00)	(273,339.34)
04/01/2036	1,265,000.00	2.700%	437,612.50	1,702,612.50	1,280,941.50	(421,671.00)	(267,275.22)
04/01/2037	1,300,000.00	2.850%	403,457.50	1,703,457.50	1,280,941.50	(422,516.00)	(260,356,28)
04/01/2038	1,335,000.00	2.900%	366,407.50	1,701,407.50	1,280,941.50	(420,466.00)	(251,842.94)
04/01/2039	1,375,000.00	2.950%	327,692.50	1,702,692.50	1,280,941.50	(421,751.00)	(245,566.45)
04/01/2040	1,415,000.00	3.000%	287,130.00	1,702,130.00	1,280,941.50	(421,188.50)	(238,374.46)
04/01/2041	1,460,000.00	3.050%	244,680.00	1,704,680.00	1,280,941.50	(423,738.50)	(233,126.85)
04/01/2042	1,500,000.00	3.100%	200,150.00	1,700,150.00	1,280,941.50	(419,208.50)	(224,125.69)
04/01/2043	1,550,000.00	3.150%	153,650.00	1,703,650.00	11,280,941.50	9,577,291.50	5,075,878.23
04/01/2044	1,600,000.00	3,200%	104,825.00	1,704,825.00	10,845,019.00	9,140,194.00	4,710,735.08
04/01/2045	1,650,000.00	3.250%	53,625.00	1,703,625.00	10,422,509.50	8,718,884.50	4,369,714.25
	30,390,000.00	·	12,172,770.90	42,562,770.90	60,729,183.00	18,166,412.10	7,382,901.72

# Savings Summary

PV of savings from eash flow Less: Prior funds on hand	7,382,901.72 (74,277.78)
Net PV Savings	7,308,623.94
Net PV Benefit/ Refunded Principal	24.3621%
Dated	04/15/2020
First Coupon Date	10/01/2020
Weighted Average Maturity	14.21
Average Coupon	2.8190%
Bond Yield for Arbitrage Purpose	2.7879134%
True Interest Cost (TIC)	2.8548035%

#### ESTIMATED DEBT SERVICE

# Knoxville Utilities Board of the City of Knoxville, Tennessee Wastewater System Revenue Refunding Bonds, Series 2020

		Estimated			
Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
10/01/2020			356,237.15	356,237.15	
04/01/2021	960,000.00	1.500%	386,281.25	1,346,281.25	1,702,518.40
10/01/2021	700,000,00	1.50070	379,081.25	379,081.25	1,702,510,10
04/01/2022	945,000.00	1.600%	379,081.25	1,324,081.25	1,703,162.50
10/01/2022	715,000.00	1.00070	371,521.25	371,521.25	1,705,102.50
04/01/2023	960,000.00	1.650%	371,521.25	1,331,521.25	1,703,042.50
10/01/2023	200,000.00	1.05070	363,601.25	363,601.25	1,705,042,50
04/01/2024	975,000.00	1.750%	363,601.25	1,338,601.25	1,702,202.50
10/01/2024	775,000.00	1.75070	355,070.00	355,070.00	1,702,202.30
04/01/2025	990,000.00	1.800%	355,070.00	1,345,070.00	1,700,140.00
10/01/2025	770,000.00	1.00070	346,160.00	346,160.00	1,700,140.00
04/01/2026	1,010,000.00	1.850%	346,160.00	1,356,160.00	1,702,320.00
10/01/2026	1,010,000.00	1.05070	336,817.50	336,817.50	1,702,320.00
04/01/2027	1,030,000.00	1.900%	336,817.50	1,366,817.50	1,703,635.00
10/01/2027	1,030,000.00	1.70070	327,032,50	327,032.50	1,703,033.00
04/01/2028	1,050,000.00	2.000%	327,032.50	1,377,032.50	1,704,065.00
10/01/2028	1,030,000.00	2.00070	316,532.50	316,532.50	1,704,005.00
04/01/2029	1,070,000.00	2,100%	316,532.50	1,386,532.50	1,703,065.00
10/01/2029	1,070,000.00	2.100%	305,297.50	305,297.50	1,703,003.00
04/01/2030	1,090,000.00	2.250%	305,297.50	1,395,297.50	1,700,595.00
10/01/2030	1,090,000.00	2.23070		293,035.00	1,700,393.00
04/01/2031	1 115 000 00	2.350%	293,035.00 293,035.00	1,408,035.00	1 701 070 00
	1,115,000.00	2.330%			1,701,070.00
10/01/2031	1 1 1 5 000 00	2 5000/	279,933.75	279,933.75	1 701 967 60
04/01/2032	1,145,000.00	2.500%	279,933.75	1,424,933.75	1,704,867.50
10/01/2032	1 170 000 00	2 5500/	265,621.25	265,621.25	1 701 242 50
04/01/2033	1,170,000.00	2.550%	265,621.25	1,435,621.25	1,701,242.50
10/01/2033	1 200 000 00	2.600%	250,703.75 250,703.75	250,703.75	1 701 407 50
04/01/2034	1,200,000.00	2.000%		1,450,703.75	1,701,407.50
10/01/2034	1 220 000 00	2.650%	235,103.75 235,103.75	235,103.75	1 700 207 60
04/01/2035	1,230,000.00	2.030%		1,465,103.75	1,700,207.50
10/01/2035	1 265 000 00	2 7000/	218,806.25	218,806.25	1 702 612 60
04/01/2036	1,265,000.00	2.700%	218,806.25	1,483,806.25	1,702,612.50
10/01/2036	1 200 000 00	2.850%	201,728.75	201,728.75	1 702 457 50
04/01/2037	1,300,000.00	2.630%	201,728.75	1,501,728.75	1,703,457.50
10/01/2037	1 225 000 00	2 0000/	183,203.75	183,203.75	1 701 107 50
04/01/2038	1,335,000.00	2.900%	183,203.75	1,518,203.75	1,701,407.50
10/01/2038	1 277 000 00	0.0000	163,846.25	163,846.25	1 700 (00 50
04/01/2039	1,375,000.00	2.950%	163,846.25	1,538,846.25	1,702,692.50
10/01/2039	1.416.000.00	2.0000/	143,565.00	143,565.00	1 702 120 00
04/01/2040	1,415,000.00	3.000%	143,565.00	1,558,565.00	1,702,130.00
10/01/2040	1.460.000.00	2.0500/	122,340.00	122,340.00	1 704 690 00
04/01/2041	1,460,000.00	3.050%	122,340.00	1,582,340.00	1,704,680.00
10/01/2041	1 500 000 00	2 1000/	100,075.00	100,075.00	1 700 150 00
04/01/2042	1,500,000.00	3.100%	100,075.00	1,600,075.00	1,700,150.00
10/01/2042	1 550 000 00	2 1500/	76,825.00	76,825.00	1 702 650 00
04/01/2043	1,550,000.00	3.150%	76,825.00	1,626,825.00	1,703,650.00
10/01/2043	1 (00 000 00	2 2000/	52,412.50	52,412.50	1 70.1 02.5 00
04/01/2044	1,600,000.00	3.200%	52,412.50	1,652,412.50	1,704,825.00
10/01/2044	1 (50 000 00	2 2500/	26,812.50	26,812.50	1 702 626 00
04/01/2045	1,650,000.00	3.250%	26,812.50	1,676,812.50	1,703,625.00
	30,390,000.00		12,172,770.90	42,562,770.90	

# **Date Structure**

Date First Coupon Date 04/15/2020 10/01/2020

# **Yield Statistics**

Average Coupon Weighted Average Maturity True Interest Cost (TIC) 2.8189576% 14.209 2.8548035%

# PRIOR BOND DEBT SERVICE

# Knoxville Utilities Board of the City of Knoxville, Tennessee \$30,000,000 Wastewater System Revenue Bonds, Series 2010 (BAB's)

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service	Other Cash Flow	Total	Annual Total
10/01/2020			955,000	955,000		(314,529.25)	640,470.75	
04/01/2021			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2021			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,941.30
04/01/2022			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2022			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,541.50
04/01/2023			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2023			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,941.30
04/01/2024			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2024			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,541.50
04/01/2025			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2025			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,941.30
04/01/2026			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2026			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,941.30
04/01/2027			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2027			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2028			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2028			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,941.30
04/01/2029			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2029			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,541.50
04/01/2030			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2030			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,941.30
04/01/2031			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2031			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2032			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2032			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2033			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2033			955,000	955,000	1,510,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2034			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2034			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2035			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2035			955,000	955,000	1,510,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2036			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2036			955,000	955,000	1,510,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2037			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2037			955,000	955,000	1,710,000	(314,529.25)	640,470.75	1,200,711.50
04/01/2038			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2038			955,000	955,000	1,210,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2039			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2039			955,000	955,000	1,710,000	(314,529.25)	640,470.75	1,200,711.50
04/01/2040			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2040			955,000	955,000	1,710,000	(314,529.25)	640,470.75	1,200,711.50
04/01/2041			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2041			955,000	955,000	1,510,000	(314,529.25)	640,470.75	1,200,711.00
04/01/2042			955,000	955,000	1,910,000	(314,529.25)	640,470.75	1,280,941.50
10/01/2042			955,000	955,000	1,210,000	(314,529.25)	640,470.75	1,200,741.50
04/01/2043	10,000,000	6.500%	955,000	10,955,000	11,910,000	(314,529,25)	10,640,470.75	11,280,941.50
10/01/2043	10,000,000	0.50070	630,000	630,000	11,510,000	(207,490.50)	422,509.50	. 1,200,7 11.50
04/01/2044	10,000,000	6.300%	630,000	10,630,000	11,260,000	(207,490.50)	10,422,509.50	10,845,019.00
10/01/2044	10,000,000	0.30070	315,000	315,000	11,200,000	(103,745.25)	211,254.75	10,010,017.00
04/01/2045	10,000,000	6.300%	315,000	10,315,000	10,630,000	(103,745.25)	10,211,254.75	10,422,509.50
	30,000,000		45,820,000	75,820,000	75,820,000	(15,090,817.00)	60,729,183.00	60,729,183.00

#### SUMMARY OF BONDS REFUNDED

Bond	Maturity	Interest	Par	Call	Call
	Date	Rate	Amount	Date	Price
\$30,000,000 Wastewa	ter System Rever	nue Bonds, Series	2010 (Federally T	'axable BAB's), I	BOND:
	04/01/2043	6.500%	10,000,000.00	04/15/2020	100.000
\$30,000,000 Wastewa	ter System Rever 04/01/2044 04/01/2045	nue Bonds, Series 6.300% 6.300%	2010 (Federally T 10,000,000.00 10,000,000.00 20,000,000.00	axable BAB's), 2 04/15/2020 04/15/2020	2045TERM: 100.000 100.000
			30,000,000.00		

# SOURCES AND USES OF FUNDS

Sources:	
Bond Proceeds:	
Par Amount	30,390,000.00
Other Sources of Funds:	
KUB Contributions for Accrued Interest	74,277.78
	30,464,277.78
Uses:	
Refunding Escrow Deposits:	
Cash Deposit	30,074,277.78
Cost of Issuance:	
Municipal Advisor	45,500.00
Bond Counsel	34,000.00
Rating Agency - Moody's	35,500.00
Rating Agency - S&P Global	32,500.00
Paying Agent	700.00
POS/Official Statement	7,500.00 1,000.00
Advertising Miscellaneous	4,995.00
Miscenaneous	161,695.00
Hadamaitada Disasanti	
Underwriter's Discount: Underwriter's Discount (Awarded to Lowest Bidder)	228,305.00
	30,464,277.78

# SUMMARY OF REFUNDING RESULTS

Dated Date	04/15/2020
Delivery Date	04/15/2020
Arbitrage yield	2.787913%
Escrow yield	0.000000%
Value of Negative Arbitrage	
Bond Par Amount	30,390,000.00
True Interest Cost	2.854804%
Net Interest Cost	
NAY real	2.871828%
Average Coupon	2.818958%
Average Life	14.209
Par amount of refunded bonds	30,000,000.00
Average coupon of refunded bonds	6.363884%
Average life of refunded bonds	23.961
PV of prior debt to 04/15/2020 @ 2.787913%	37,772,901.72
Net PV Savings	7,308,623.94
Percentage savings of refunded bonds	24.362080%
Percentage savings of refunding bonds	24.049437%

Issuer's No.	
	(To be filled out by State)

# REPORT ON DEBT OBLIGATION (Pursuant to Chapter 402, Public Acts of 1989)

I		
1. Issuer:		
Name	Knoxville Utilities Board	
Address	Attn: President & CEO	
	445 Gay Street	
	Knoxville, Tennessee 37902	
<u> </u>		- p
2. Debt Obligation:	X a.Bond b.CON c.BAN d.GAN e.Lease/Lease Purchase f.Loan Agreement	5. Face Amount of Debt Obligation: \$30,000,000  6. Type of Sale: X a. Competitive Public Sale b. Negotiated c. Loan Program
b. Genera X c. Revenu	l Obligation I Obligation Revenue and Tax	7. Tax Status aTax Exempt bXTaxable  8. Dated Date: February 10, 2010  9. Issue Date (Closing Date): February 10, 2010
b. Educat c. Highwa d. Public e. Solid V f. Industri g. Manufi h. Health j. Airports X j. Utilities	nys and Streets Safety Vaste Disposal ial Park acturing Facilities Facilities	10. Rating:  a. Moody's"Aa3" b. Standard & Poor's"AA+" c. Unrated  11. Interest Cost: 4.1649108%  X a. TIC (Net of Rebate) b. NIC c. Variable d. Other  12. Recurring Costs: a.Remarketing Agent Fees \$ b.Liquidity Fees \$ c.Credit Enhancement Fees \$

Year Amoun		-	Year	Amount	Interest Rate	
\$10,000,00		]				
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zed Description of the		<b>ACO 000</b>			Vame of Firm	
Financial Advisor Fee	es	\$50,000	-	Morgan Keegan & Company, Inc.		
Legal Fees						
i. Bond Counsel		\$22,500	_	Bass, Berry & Sims PLo		
ii. Issuer's Coun						
iii. Trustee's Co			_			
iv. Verification Fee	•		<b>.</b>			
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Paying Agent Fees an	d	\$1,000	_	Regions Bank		
Registration Fees			_			
Trustee Fees			_			
Remarketing Agent Fo	ees					
Liquidity Fees						
Rating Agency Fees-		\$25,000		Moody's, Standard & Po	or's	
Credit Enhancement I	Pees		_			
Underwriter's Discoun	nt(%)	\$372,300	_	Robert W. Baird & Co.,	Inc., Red Bank, Ne	w Jersey
i. Take Down			-			
ii. Management	Fee		-			
iii. Risk Premiu			-		ME-14-14-14-14-14-14-14-14-14-14-14-14-14-	
iv. Underwriter's	s Counsel		-			
v. Other Expens	es	***************************************	-			
Printing and Advertisi		\$6,400	-	Knoxville News-Sentine	l, i-deal, Print Shop	CUSIP
Issuer Fees			-	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>		<del></del>
Real Estate Fees			-	<del></del>	<del></del>	
Other Costs		\$5,000	-	structuring, postage, Fed	Ex, document prod	lucion, etc.
Total Costs		\$482,200				
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monzen Kehtesettatt	YO					
				Managing Director		
esident & CEO				Title		
tle				Morgan Keegan & Com	pany, Inc.	
				Firm		

SEND TO: Comptroller of the Treasury, Director-Division of Local Finance, Suite 1700, 505 Deaderick Street, James K. Polk State Office Building, Nashville, Tennessee 37243-0274

February 10, 2010

February 10, 2010