

#### KENTUCKY INFRASTRUCTURE AUTHORITY

Andy Beshear Governor 100 Airport Road Frankfort, Kentucky 40601 (502) 573-0260 kia.ky.gov

Edith Halbleib
Executive Director

April 9, 2020

Representative Walker Thomas, Co-Chair Capital Projects and Bond Oversight Committee Room 34, Capitol Annex 702 Capitol Avenue Frankfort, KY 40601

RE: Kentucky Infrastructure Authority Proposed Loans for Approval by the Capital Projects and Bond Oversight Committee of the Kentucky General Assembly

Dear Chair Thomas,

Thank you for allowing me to present the Kentucky Infrastructure Authority (the "KIA") projects in writing, in lieu of an appearance before the Capital Projects and Bond Oversight Committee ("CPBOC" or "Committee"). I am the Deputy Executive Director of the KIA, Linda Bridwell.

The four projects that we have submitted for your consideration are under three of the KIA infrastructure fund programs:

#### CLEAN WATER STATE REVOLVING FUND ("SRF") – FUND A

- a. The <u>City of Smithland</u> in Livingston County is requesting a Planning and Design loan from Fund A in the amount of \$246,000. This loan is to fund a Phase III Sewer System Evaluation Study to determine the sources of high levels of Inflow and Infiltration in the wastewater collection system. Construction will be planned based on the results of the study. KIA funding is 100% of the planning and design cost.
  - The current sewer rate, effective September 15, 2018 is \$45.02 for 4,000 gallons with an additional 28% rate increase to occur in phases between July 1, 2021 and July 1, 2025. The term is 5 years at a 2.50% interest rate.
- b. The <u>Paducah-McCracken County Joint Sewer Agency</u> in McCracken County is requesting a loan from Fund A in the amount of \$5,170,000. This loan is to fund the Long Term Control Plan Project #3, associated with the outfall adjacent to the



Paducah Wastewater Treatment Plant which will allow for use of the Harrison Street Storage tank to capture high Inflow and Infiltration volumes during wet weather. KIA funding is 100% of the project.

The current sewer rate, effective July 1, 2019 is \$23.76 for 4,000 gallons. The term is 20 years at a 0.50% interest rate.

#### <u>INFRASTRUCTURE REVOLVING FUND – FUND B</u>

a. The <u>City of Flemingsburg</u> in Fleming County is requesting a Fund B loan in the amount of \$77,405. KIA is funding 30% of the total project cost along with an Appalachian Regional Commission ("ARC") grant.

This proposed project is for the replacement of approximately 1,650 feet of asbestos cement distribution water lines with 6-inch PVC water lines and 600 feet of cast iron distribution water mains with 2-inch water lines.

The water rate for 4,000 gallons effective April 1, 2019 is \$37.46 for customers inside the City, and \$49.19 for customers outside the City. The term is 20 years at a 0.50% interest rate.

#### DRINKING WATER SRF – FUND F

a. The <u>City of Lebanon F/B/O Lebanon Water Works Company, Inc.</u> in Marion County is requesting a Fund F loan in the amount of \$5,238,230. KIA is funding 100% of the total project cost. The project also includes \$1,300,000 in principal forgiveness.

This proposed project will replace 80,000 linear feet of cast iron water lines and galvanized steel water lines of various sizes, along with the accompanying service lines.

The water rate for 4,000 gallons effective July 8, 2019 is \$26.19 for customers inside the City and \$28.82 for customers outside the City. The term is 30 years at a 0.5% interest rate.

Thank you for your consideration. The KIA respectfully requests approval for the mentioned projects.

Sincerely.

Linda C. Bridwell, PE

Deputy Executive Director - KIA



# Kentucky Infrastructure Authority Projects for April 2020 Capital Projects Meeting

•	Fund A Loan Loan # A20-024 A20-032	Borrower City of Smithland (P&D) Paducah McCracken County Joint Sewer Agency	<u>Amount Requested</u> \$ 246,000 \$ 5,170,000	<u>Loan Total</u> \$ 246,000 \$ 5,170,000	County Livingston McCracken
•	<b>Fund B Loan Loan #</b> B20-001	Borrower City of Flemingsburg	Amount Requested \$ 77,405	<u>Loan Total</u> \$ 77,405	<u>County</u> Fleming
•	<i>Fund F Loan</i> <u>Loan #</u> F20-002	Borrower City of Lebanon F/B/O Lebanon Water Works Company Inc.	Amount Requested \$ 5,238,230	<u>Loan Total</u> \$ 5,238,230	<u>County</u> Marion

# EXECUTIVE SUMMARY KENTUCKY INFRASTRUCTURE AUTHORITY FUND A, FEDERALLY ASSISTED WASTEWATER REVOLVING LOAN FUND

Reviewer Date KIA Loan Number WRIS Number Meili Sun November 7, 2019 A20-024 SX21139010

BORROWER CITY OF SMITHLAND LIVINGSTON COUNTY

#### **BRIEF DESCRIPTION**

The City of Smithland is seeking a KIA loan to fund the planning and design portion of the Sewer Rehabilitation project. The purpose of the planning and design work is to identify the major sources of I & I that inundate the City's systems during wet weather events that cause sanitary sewer overflows. This work will consist of a Phase III SSES including flow monitoring, CCTV inspections, and field surveys to locate the sources of I & I. It also includes evaluation of the City's influent/effluent lift station and force main networks to identify capacity related issues. Following the field studies, design will be performed to outline the scope of work for procurement and the construction portion required to address system deficiencies determined during the Phase III SSES and lift station evaluations.

PROJECT FINANCING		PROJECT BUDGET RD Fee % Actual %
Fund A Loan P&D	\$246,000	Administrative Expenses \$5,000 Planning \$145,000 Eng - Design / Const \$96,000
TOTAL	\$246,000	TOTAL \$246,000
REPAYMENT	Rate Term	2.50% Est. Annual Payment \$53,138 5 Years 1st Payment 6 Mo. after first draw
PROFESSIONAL SERVICES	Engineer Bond Counsel	Rivercrest Engineering Inc Rubin & Hays
PROJECT SCHEDULE	Bid Opening P&D Start P&D Stop	Dec-20 Mar-20 Sep-20
DEBT PER CUSTOMER	Existing Proposed	\$361 \$1,706
OTHER DEBT		See Attached
RESIDENTIAL RATES	Current Additional	Users         Avg. Bill           180         \$45.02 (for 4,000 gallons)           0         \$45.02 (for 4,000 gallons)

REGIONAL COORDINATION This project is consistent with regional planning recommendations.

	Cash Flow Before			
CASHFLOW	Debt Service	Debt Service	Cash Flow After Debt Service	Coverage Ratio
Audited 2016	(8,463)	4,806	(13,269)	-1.8
Audited 2017	2,332	4,835	(2,503)	0.5
Audited 2018	6,647	4,759	1,888	1.4
Projected 2019	18,732	4,883	13,849	3.8
Projected 2020	18,507	4,951	13,556	3.7
Projected 2021	41,229	31,520	9,709	1.3
Projected 2022	67,605	58,089	9,516	1.2
Projected 2023	64,724	58,089	6,635	1.1

Reviewer: Meili Sun

Date: November 7, 2019

Loan Number: A20-024 P&D

# KENTUCKY INFRASTRUCTURE AUTHORITY WASTEWATER REVOLVING LOAN FUND (FUND A) CITY OF SMITHLAND, LIVINGSTON COUNTY PROJECT REVIEW SX21139010

#### I. PROJECT DESCRIPTION

The City of Smithland ("City") is seeking a KIA Fund A loan to fund the planning and design portion of the Sewer Rehabilitation project. The purpose of the planning and design work is to identify the major sources of I&I that cause sanitary sewer overflows and eventually achieve compliance with an agreed order issued by the Division of Water. This project will consist of a Phase III SSES including flow monitoring, CCTV inspections, and field surveys to locate the sources of I&I. It will also include evaluation of the City's influent/effluent lift station and force main networks to identify capacity related issues. Following the field studies, design will be performed to outline the scope of work for procurement and the construction portion required to address system deficiencies determined during the Phase III SSES and lift station evaluations.

The City is the county seat of Livingston County. It purchases 100% of its water supply from Crittenden-Livingston County Water District ("CCWD") to serve approximately 180 customers within the service area. The CCWD's wholesale water rate is regulated by the Kentucky Public Service Commission.

#### II. PROJECT BUDGET

	T	otal
Administrative Expenses	\$	5,000
Planning 145,0		145,000
Engineering Fees – Design		96,000
Total	\$	246,000

#### III. PROJECT FUNDING

	Amount	%	
KIA Fund A Loan (P&D)	\$ 246,000	100%	

# IV. KIA DEBT SERVICE

Planning & Design Loan	\$	246,000
Principal Forgiveness		0
Amortized Loan Amount	\$	246,000
Interest Rate		2.50%
Loan Term (Year)		5
Estimated Annual Debt Service	\$	52,646
Administrative Fee (0.20%)		492
Annual Debt Service	\$	53,138

# V. PROJECT SCHEDULE

P&D Start	March 2020
P&D Completion	September 2020
Estimated Bid Opening	December 2020
Estimated Construction Start	January 2021
Estimated Construction Completion	July 2021

# VI. CUSTOMER COMPOSITION AND RATE STRUCTURE

# A) Customers

	Current
Residential	131
Commercial	49
Industrial	
Total	180

# B) Rates

	Water Rates		
Date of Last Rate Increase	09/15/18	06/15/13	
Minimum 2,000 Gallons	\$26.24	\$23.85	
Next 3,000 Gallons	7.51	6.83	
Next 5,000 Gallons	6.77	6.15	
Cost for 4,000 gallons	\$41.26	\$37.51	
Increase %	10.0%		
Affordability Index (Rate/MHI)	1.5%		

	Sewer Rates		
	Current	Prior	
Date of Last Rate Increase	09/15/18	06/15/13	
Minimum 2,000 Gallons	\$28.62	\$23.85	
Next 3,000 Gallons	8.20	6.83	
Next 5,000 Gallons	7.38	6.15	
Cost for 4,000 gallons	\$45.02	\$37.51	
Increase %	20.0%		
Affordability Index (Rate/MHI)	1.6%		

	Purchased Water				
	Phase III Phase II Current Prior				
Date of Last Rate Increase	05/23/21	05/23/20	05/23/19	05/01/15	
Crittenden-Livingston WD (per 1,000 Gallons)	3.34	3.08	2.83	2.58	
Increase %	8.44%	8.83%	9.69%		

#### VII. <u>DEMOGRAPHICS</u>

Based on current Census data from the American Community Survey 5-Year Estimate 2013-2017, the Utility's service area population was 335 with a Median Household Income (MHI) of \$33,125. The median household income for the Commonwealth is \$46,535. A five year loan term at 2.5% interest rate will be applied to this loan as planning and design loans are not eligible for the non-standard rate. Should the City return with the same disadvantaged community status for a construction loan after completion of the planning and design phase, the project will qualify for the non-standard rate and term and possibly up to 50% principal forgiveness.

Population					County Unemployment	
Year	City	% Change	County	% Change	Date	Rate
1980	512		9,219		June 2005	5.9%
1990	384	-25.0%	9,062	-1.7%	June 2010	11.8%
2000	401	4.4%	9,804	8.2%	June 2015	7.0%
2010	301	-24.9%	9,519	-2.9%	June 2019	5.7%
Current	278	-7.6%	9,288	-2.4%		
Cumulative %		-45.7%		0.7%		

As part of the City's plan to retain population and encourage future growth, the City has started a talk with Livingston County to move the county middle school from Burna to Smithland. This project will not only assure the capacity and quality of the sewer system to facilitate potential commercial and institutional customers but also improve services for the existing customers.

#### **VIII. 2019 CAPITALIZATION GRANT EQUIVALENCIES**

Additional Subsidization – This project does not qualify for additional subsidization.

#### IX. FINANCIAL ANALYSIS

Financial information was obtained from the audited financial statements for the years ended June 30, 2016 through June 30, 2018. The non-cash impact of GASB 68, Accounting and Financial Reporting for Pensions and GASB 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions is not applicable as the City does not participate in the County Employees Retirement System (CERS).

#### **HISTORY**

Combined water and sewer revenues decreased 4.2% from \$ 183,073 in 2016 to \$175,264 in 2018 due to declined population while operating expenses decreased 11.9% from \$191,596 in 2016 to \$168,674 in 2018 attributable to personnel cuts. Non-recurring repair and contracted service expenses/revenues had been removed from the 2016 Statement of Revenues, Expenses, and Change in Net Position. In 2016, the state highway department contracted out the water line relocation portion of the highway 453 project to the City. The City brought in \$75,000 contracted service revenues while incurring \$60,000 expenses associated with the contract. Another reason for the higher expenses in 2016 was due to additional repair costs caused by flood damage. The debt coverage ratio was (1.8), 0.5, and 1.4 for 2016, 2017, and 2018 respectively.

The balance sheet reflects a current ratio of 0.5, debt to equity ratio of 0.5, 38.0 days sales in accounts receivable, and 3.2 months of operating expenses in unrestricted cash.

#### **PROJECTIONS**

Projections are based on the following assumptions:

- 1) Total revenues will go up 14% in FY2020 from the previously approved rate increases.
- 2) Expenses will increase 2% each year for inflation.
- 3) After a special condition of additional 28% rate increase is met, debt service coverage is 1.2 in FY2022 when full year principal and interest repayments for the planning and design loan begin.

4) The City will be able to support a total loan amount of approximately \$0.7 million without further rate increases should the City return to pursue a construction loan from KIA after the planning and design work is completed.

Based on the pro forma assumptions, the utility shows adequate cash flow to repay the KIA Fund A loan.

#### REPLACEMENT RESERVE

Replacement reserve is not required for a planning and design loan.

#### X. <u>DEBT OBLIGATIONS</u>

	Out	standing	Maturity
USDA Bonds 92-03 Series	\$	64,900	2040

## XI. CONTACTS

Legal Applicant	
Name	City of Smithland
Address	310 Wilson Ave, PO Box 287
	Smithland, KY 42081
County	Livingston
Authorized Official	William Hesser, Mayor
Phone	(270) 928-2446
Email	smithland@vci.net

Project Contact - Applicant	
Name	Mary Wheatley, City Clerk
Organization	City of Smithland
Address	310 Wilson Ave, PO Box 287
	Smithland, KY 42081
Phone	(270) 928-2446
Email	smithland@vci.net

**Project Administrator** 

Name Kyle Cunningham
Organization Pennyrile ADD
Address 300 Hammond Dr

Hopkinsville, KY 42240

Phone (270) 886-9484

Email kyle.cunningham@ky.gov

**Consulting Engineer** 

Name Rory Brian Flynn

Firm Rivercrest Engineering Inc

Address 3519 State Route 440

Hickory, KY 42051

Phone (270) 519-7675

Email bflynn@rivercresteng.com

#### XII. RECOMMENDATIONS

KIA staff recommends approval of the loan with the standard conditions and one special condition:

1. The City shall pass an ordinance to raise both water and sewer rates by 28% equivalent to \$55,000 on or before July 1, 2021.

#### CITY OF SMITHLAND FINANCIAL SUMMARY (JUNE YEAR END)

FINANCIAL SUMMARY (JUNE YEAR END)	Audited	Audited	Audited	Projected	Projected	Projected	Projected	Projected
	2016	2017	2018	2019	2020	2021	2022	2023
Balance Sheet								
Assets								
Current Assets	62,142	57,221	71,025	86,715	100,871	113,580	126,096	132,731
Other Assets	701,439	686,986	657,126	622,233	587,340	798,447	763,554	728,661
Total =	763,581	744,207	728,151	708,948	688,211	912,027	889,650	861,392
Liabilities & Equity								
Current Liabilities	115,466	133,672	150,558	150,910	151,203	200,701	201,003	201,309
Long Term Liabilities	87,480	85,565	83,990	82,033	82,033	276,685	225,236	173,679
Total Liabilities	202,946	219,237	234,548	232,943	233,236	477,386	426,238	374,989
Net Assets	560,635	524,970	493,603	476,005	454,975	434,641	463,412	486,403
Cash Flow								
Revenues	183,073	178,883	175,264	193,215	199,198	228,496	257,696	257,696
Operating Expenses	191,596	176,604	168,674	174,540	180,748	187,324	190,148	193,029
Other Income	60	53	57	57	57	57	57	57
Cash Flow Before Debt Service	(8,463)	2,332	6,647	18,732	18,507	41,229	67,605	64,724
Debt Service								
Existing Debt Service	4,806	4,835	4,759	4,883	4,951	4,951	4,951	4,951
Proposed KIA Loan	0	0	0	0	0	26,569	53,138	53,138
Total Debt Service	4,806	4,835	4,759	4,883	4,951	31,520	58,089	58,089
Cash Flow After Debt Service	(13,269)	(2,503)	1,888	13,849	13,556	9,709	9,516	6,635
Ratios								
Current Ratio	0.5	0.4	0.5	0.6	0.7	0.6	0.6	0.7
Debt to Equity	0.5	0.4	0.5	0.5	0.7	1.1	0.0	0.7
Days Sales in Accounts Receivable	38.0	41.0	38.0	38.0	37.9	37.9	37.8	37.8
Months Operating Expenses in Unrestricted Cash	2.7	2.5	3.2	4.0	4.8	5.3	5.8	6.1
Debt Coverage Ratio	(1.8)	0.5	1.4	3.8	3.7	1.3	1.2	1.1

# EXECUTIVE SUMMARY KENTUCKY INFRASTRUCTURE AUTHORITY FUND A, FEDERALLY ASSISTED WASTEWATER REVOLVING LOAN FUND

Reviewer Ashley Adams
Date March 5, 2020
KIA Loan Number A20-032
WRIS Number SX21145034

BORROWER PADUCAH MCCRACKEN COUNTY JOINT SEWER AGENCY MCCRACKEN COUNTY

#### **BRIEF DESCRIPTION**

This is phase one of project #3 of the approved Long Term Control Plan associated with the outfall located adjacent to the Paducah WWTP. It will fund the pumping and fine screening sapability of 77 MGD at Outfall 003. Construction includes the shell of the pump station, two of the four 20 MGD pumps, screening prior to the pump station, a new structure over the existing 102 inch combined sewer with modulating valve, along with various electrical and piping components.

PROJECT FINANCING		PROJECT BUDGET	RD Fee %	Actual %	
Fund A Loan	\$5,170,000	Legal Expenses Planning			\$2,000 40,000
		Eng - Design / Const	6.8%	6.6%	310,000
		Eng - Insp	3.6%	1.9%	90,000
		Eng - Other			28,000
		Construction			4,090,000
		Contingency			610,000
TOTAL	\$5,170,000	TOTAL			\$5,170,000
REPAYMENT	Rate	0.50%	Est. Annual Payme	nt	\$282,303
	Term	20 Years	1st Payment	6 Mo. after fir	st draw
PROFESSIONAL SERVICES	Engineer Bond Counsel	J.R. Wauford & Comp	oany		
		Rubin & Hays			
PROJECT SCHEDULE	Bid Opening	Jun-20			
	Construction Start	Aug-20			
	Construction Stop	Oct-21			
DEBT PER CUSTOMER	Existing	\$1,387			
	Proposed	\$2,130			
OTHER DEBT		See Attached			
OTHER STATE-FUNDED PRO	JECTS LAST 5 YRS	See Attached			
RESIDENTIAL RATES		<u>Users</u>	Avg. Bill		
	Current	19,024		(for 4,000 gal	
	Additional	0	\$23.76	(for 4,000 gal	lons)

REGIONAL COORDINATION This project is consistent with regional planning recommendations.

CASHFLOW	Cash Flow Before Debt Service	Debt Service	Cash Flow After Debt Service	Coverage Ratio
Audited 2017	3,395,483	1,556,594	1,838,889	2.2
Audited 2018	4,774,436	1,604,158	3,170,278	3.0
Audited 2019	4,903,413	1,681,385	3,222,028	2.9
Projected 2020	4,987,675	1,804,002	3,183,673	2.8
Projected 2021	4,895,468	2,556,018	2,339,450	1.9
Projected 2022	4,801,416	3,180,343	1,621,074	1.5
Projected 2023	4,705,483	3,386,333	1,319,150	1.4
Projected 2024	4,607,632	3,282,001	1,325,631	1.4

Reviewer: Ashley Adams

Date: March 5, 2020

Loan Number: A20-032

# KENTUCKY INFRASTRUCTURE AUTHORITY WASTEWATER REVOLVING LOAN FUND (FUND A) PADUCAH-MCCRACKEN COUNTY JOINT SEWER AGENCY MCCRACKEN COUNTY PROJECT REVIEW SX21145034

#### I. PROJECT DESCRIPTION

The Paducah-McCracken County Joint Sewer Agency is requesting a Fund A loan in the amount of \$5,170,000 for the LTCP Project #3 - Outfall 003 Fine Screening - Phase One project. The project is phase one of Project #3 of the approved Long Term Control Plan (LTCP) for the Paducah JSA, associated with the outfall (EPA Outfall 003) located adjacent to the Paducah Wastewater Treatment Plant. The project will be constructed next to the recently completed 15 MG combined sewer wet weather tank (SX21145023), and will allow for the tank to be placed in service. The full scope of Project #3 is the pumping and fine screening capability of 77 MGD at Outfall 003. This phase will construct the shell of the pump station, two of the four 20 MGD pumps, screening prior to the pump station, a new structure over the existing 102 inch combined sewer with modulating valve, along with various electrical and piping components.

Project #3 is required by the approved Long Term Control Plan for the Paducah JSA. By performing this project in phases, JSA can realize increased capture volumes related to their LTCP at Outfall 003 with the expedited use of the Harrison Street Phase One 15 MG Storage Tank. Increased capture volumes promote public health by reducing Combined Sewer Overflow volumes and pollutants to the Ohio River.

The next phase of Project #3 will include installing the final two pumps for the pump station, increasing its ultimate capacity to 80 MGD, additional fine screening, and discharge piping to the Ohio River. The final component related to Outfall 003 is listed as Project #5 and includes the disinfection component.

# II. PROJECT BUDGET

	Total
Legal Expenses	\$ 2,000
Planning	40,000
Engineering Fees - Design	260,000
Engineering Fees - Construction	50,000
Engineering Fees - Inspection	90,000
Engineering Fees - Other	28,000
Construction	4,090,000
Contingency	610,000
Total	\$ 5,170,000

#### III. PROJECT FUNDING

	 Amount	<u> </u>	
Fund A Loan	\$ 5,170,000	100%	
Total	\$ 5,170,000	100%	_

# IV. KIA DEBT SERVICE

Construction Loan	\$ 5,170,000
Less: Principal Forgiveness	 0
Amortized Loan Amount	\$ 5,170,000
Interest Rate	0.50%
Loan Term (Years)	20
Estimated Annual Debt Service	\$ 271,963
Administrative Fee (0.20%)	 10,340
<b>Total Estimated Annual Debt Service</b>	\$ 282,303

# V. PROJECT SCHEDULE

Bid Opening June 2020 Construction Start August 2020 Construction Stop October 2021

## VI. CUSTOMER COMPOSITION AND RATE STRUCTURE

## A) Customers

	Current
Residential/ Commercial/ Industrial	19,024
Total	19,024

#### B) Rates

	Current	Prior
Date of Last Rate Increase	07/01/19	07/01/17
Minimum (3,000 gallons)	\$17.82	\$17.49
Each Additional (1,000 gallons)	5.94	5.83
Cost for 4,000 gallons	\$23.76	\$23.32
Increase %	1.9%	
Affordability Index (Rate/MHI)	0.8%	

The Board may elect to adjust rates according to CPI-U annually.

#### VII. <u>DEMOGRAPHICS</u>

Based on current Census data from the American Community Survey 5-Year Estimate 2013-2017, the Utility's service area population was 34,452 with a Median Household Income (MHI) of \$37,195. The median household income for the Commonwealth is \$46,535. The project will qualify for a 0.50% interest rate based on MHI.

	F	Population			Count Unemploy	•
Year	City	% Change	County	% Change	Date	Rate
1980	29,315		61,310		June 2005	6.3%
1990	27,256	-7.0%	62,879	2.6%	June 2010	9.0%
2000	26,307	-3.5%	65,514	4.2%	June 2015	5.8%
2010	25,024	-4.9%	65,565	0.1%	June 2019	5.4%
Current	25,046	0.1%	65,285	-0.4%		
Cumulative %		-14.6%		6.5%		

#### VIII. 2019 CAPITALIZATION GRANT EQUIVALENCIES

- 1) Green Project Reserve This project does not qualify for Green Project Reserve (GPR) funding.
- 2) Additional Subsidization This project does not qualify for additional subsidization.

#### IX. FINANCIAL ANALYSIS

Financial information was obtained from the audited financial statements for the years ended June 30, 2017 through June 30, 2019. The non-cash impact of GASB 68, Accounting and Financial Reporting for Pensions, has been removed from fiscal 2017-2019 operating expenses and GASB 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions, has been removed from 2018 and

2019 operating expenses. Percentage references in the History section below are based on whole dollar amounts and not the rounded amounts presented.

#### HISTORY

Revenues have increased 15.6% from \$7.9 million in 2017 to \$9.1 million in 2019 mostly due to rate increases. Expenses have declined 1% from \$4.56 million in 2017 to \$4.51 million in 2019. Debt coverage was 2.2 in 2017, 3.0 in 2018, and 2.9 in 2019. Cash flow before debt service averaged \$4.3 million for the observed time period.

The balance sheet reflects a current ratio of 4.3, a debt to equity ratio of 0.6, 49.8 days sales in accounts receivable, and 18.3 months operating expenses in unrestricted cash.

#### **PROJECTIONS**

Projections are based on the following assumptions:

- 1) Revenues will remain flat throughout the forecast. The JSA Board has the ability to raise rates according to the CPI-U but does not do so automatically therefore this assumption was not made in the forecast.
- 2) Expenses will increase 2% based on inflation.
- 3) Debt service coverage is 1.4 in 2023 when full principal and interest repayments begin.

Based on the pro forma assumptions, the utility shows adequate cash flow to repay the KIA Fund A loan.

#### REPLACEMENT RESERVE

The Agency currently has designated reserves of \$3,000,000. The reserves are specifically for high dollar capital equipment purchases, for emergencies, or for rate stabilization in the event of a loss of a substantial revenue stream. No additional reserves will be required.

#### X. DEBT OBLIGATIONS

	Outstanding	Maturity
Sewer Revenue Bonds (Series 2012)	\$ 3,938,500	2051
Sewer Revenue Bonds (Series 2014)	3,290,000	2031
KIA Loan A03-01	335,514	2023
KIA Loan A03-08	458,456	2026
KIA Loan A04-03	291,789	2025
KIA Loan A08-01	839,989	2029
KIA Loan A09-02	4,524,331	2033
KIA Loan A12-08	6,119,644	2035
KIA Loan A16-072	2,142,109	2038

	Outstanding	Maturity
KIA Loan A19-044 i/a/o \$2,314,500		TBD
KIA Loan A19-039 i/a/o \$5,193,000		TBD
Total	\$ 26 378 288	

#### XI. CONTACTS

Entity Name Paducah McCracken County Joint Sewer Agency
Authorized Official Justin Hancock (Board Chairman)
County McCracken
Email justin@hancocks-paducah.com
Phone 270-575-0056
Address 621 Northview St
Paducah, KY 42001

Project Administrator

Name John Hodges

Organization Paducah McCracken County Joint Sewer Agency

Email jhodges@jointsewer.com

Phone 270-575-0056

Address 621 Northview St

Paducah, KY 42001

Consulting Engineer

PE Name J. Gregory Davenport

Firm Name J.R. Wauford & Company

Email gregd@jrwauford.com

Phone 615-883-3242

Address PO Box 140350

Nashville, TN 37214

#### XII. RECOMMENDATIONS

KIA staff recommends approval of the loan with the standard.

# PADUCAH MCCRACKEN COUNTY JOINT SEWER AGENCY FINANCIAL SUMMARY (JUNE YEAR END)

FINANCIAL SUMMARY (JUNE YEAR END)								
	Audited	Audited	Audited	Projected	Projected	Projected	Projected	Projected
	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Balance Sheet								
Assets								
Current Assets	13,850,539	12,978,262	12,537,198	12,879,403	13,113,348	13,275,456	13,407,371	13,539,934
Other Assets	68,436,117	72,089,951	78,728,088	79,691,631	91,100,228	92,109,884	90,262,809	88,421,567
Total	82,286,656	85,068,213	91,265,286	92,571,034	104,213,576	105,385,340	103,670,180	101,961,501
Liabilities & Equity								
Current Liabilities	2,561,594	1,831,780	2,913,199	2,160,947	2,477,095	3,467,131	3,558,833	3,382,683
Long Term Liabilities	24,573,136	26,720,572	30,310,920	27,518,349	37,939,961	37,757,586	34,907,908	32,243,980
Total Liabilities	27,134,730	28,552,352	33,224,119	29,679,296	40,417,056	41,224,716	38,466,741	35,626,663
Net Assets	55,151,926	56,515,861	58,041,167	62,891,738	63,796,520	64,160,624	65,203,439	66,334,838
Cash Flow								
Revenues	7,948,802	9,142,934	9,192,706	9,367,367	9,367,367	9,367,367	9,367,367	9,367,367
Operating Expenses	4,569,420	4,454,330	4,519,970	4,610,369	4,702,576	4,796,628	4,892,561	4,990,412
Other Income	16,101	85,832	230,677	230,677	230,677	230,677	230,677	230,677
Cash Flow Before Debt Service	3,395,483	4,774,436	4,903,413	4,987,675	4,895,468	4,801,416	4,705,483	4,607,632
Debt Service								
Existing Debt Service	1,556,594	1,604,158	1,681,385	1,804,002	2,556,018	3,039,191	3,104,030	2,999,698
Proposed KIA Loan	0	0	0	0	0	141,152	282,303	282,303
Total Debt Service	1,556,594	1,604,158	1,681,385	1,804,002	2,556,018	3,180,343	3,386,333	3,282,001
Cash Flow After Debt Service	1,838,889	3,170,278	3,222,028	3,183,673	2,339,450	1,621,074	1,319,150	1,325,631
Ratios								
Current Ratio	5.4	7.1	4.3	6.0	5.3	3.8	3.8	4.0
Debt to Equity	0.5	0.5	0.6	0.0	0.6	0.6	0.6	0.5
Days Sales in Accounts Receivable	49.3	51.7	49.8	49.8	49.8	49.8	49.8	49.8
Months Operating Expenses in Unrestricted Cash	17.2	13.1	18.3	18.7	19.0	19.0	18.9	18.9
2	=		.5.5					
Debt Coverage Ratio	2.2	3.0	2.9	2.8	1.9	1.5	1.4	1.4

2/25/2020 11:32 AM, FinancialsPresentation 53

# EXECUTIVE SUMMARYReviewerMeili SunKENTUCKY INFRASTRUCTURE AUTHORITYDateMarch 5, 2020FUND B, INFRASTRUCTUREKIA Loan NumberB20-001REVOLVING LOAN FUNDWRIS NumberWX21069039

BORROWER CITY OF FLEMINGSBURG FLEMING COUNTY

#### **BRIEF DESCRIPTION**

This project will replace approximately 1,650 linear feet of asbestos cement distribution mains along East Water Street with 6-inch PVC waterline, and 600 linear feet of cast iron distribution mains along East Main Street and Mills Avenue with 2-inch PVC waterline. The project will also replace and reconnect 32 customer meters.

PROJECT FINANCING		PROJECT BUDGET	RD Fee %	Actual %	
Fund B Loan	\$77,405	Administrative Expens	ses		\$12,500
ARC	180,610	Eng - Design / Const	12.2%	11.4%	23,050
		Eng - Insp	10.4%	9.8%	19,900
		Construction			184,150
		Contingency			18,415
TOTAL	\$258,015	TOTAL			\$258,015
REPAYMENT	Rate	0.50%	Est. Annual Payme	ent	\$4,227
	Term	20 Years	1st Payment	6 Mo. after fire	t draw
PROFESSIONAL SERVICES	Engineer	Bluegrass Engineering	g, PLLC		
	Bond Counsel	Rubin & Hays			
PROJECT SCHEDULE	Bid Opening	Jun-20			
	Construction Start	Aug-20			
	Construction Stop	Nov-20			
DEBT PER CUSTOMER	Existing	\$4,325			
	Proposed	\$3,979			
OTHER DEBT		See Attached			
RESIDENTIAL RATES		<u>Users</u>	Avg. Bill		
	Current	1,872	\$37.46	(for 4,000 galle	ons)
	Additional	0	\$37.46	(for 4,000 galle	ons)

REGIONAL COORDINATION This project is consistent with regional planning recommendations.

CASHFLOW	Cash Flow Before Debt Service	Debt Service	Cash Flow After Debt Service	Coverage Ratio
Audited 2017	675,733	752,277	(76,544)	0.9
Audited 2018	716,905	499,377	217,528	1.4
Audited 2019	726,367	498,460	227,907	1.5
Projected 2020	745,728	467,285	278,443	1.6
Projected 2021	764,946	476,729	288,217	1.6
Projected 2022	785,089	479,456	305,633	1.6
Projected 2023	805,635	479,563	326,072	1.7
Projected 2024	826,592	480,162	346,430	1.7

Reviewer: Meili Sun

Date: March 5, 2020

Loan Number: B20-001

# KENTUCKY INFRASTRUCTURE AUTHORITY INFRASTRUCTURE REVOLVING LOAN FUND (FUND B) ENTITY, FLEMING COUNTY PROJECT REVIEW WX21069039

#### I. PROJECT DESCRIPTION

The City of Flemingsburg ("City") is requesting a Fund B loan in the amount of \$77,405 for the E Water St, E Main St, and Mills Ave Waterline Replacement project. This project involves replacement of approximately 1,650 linear feet of asbestos cement distribution mains along East Water Street with 6-inch PVC waterline, and 600 linear feet of cast iron distribution mains along East Main Street and Mills Avenue with 2-inch PVC waterline. The project will also replace and reconnect 32 customer meters.

The City purchases over 80% of its water supply from the Greater Fleming Regional Water Commission and the City of Maysville to serve approximately 1,900 existing customers.

#### II. PROJECT BUDGET

	Total	
Administrative Expenses	\$	12,500
Engineering Fees – Design		16,150
Engineering Fees – Construction		6,900
Engineering Fees – Inspection		19,900
Construction		184,150
Contingency		18,415
Total	\$	258,015

#### III. PROJECT FUNDING

Total	\$ 258,015	100%	
ARC Grant	180,610	70%	
KIA Fund B Loan	\$ 77,405	30%	
	Amount	%	

# IV. KIA DEBT SERVICE

Construction Loan	\$ 77,405
Principal Forgiveness	0
Amortized Loan Amount	\$ 77,405
Interest Rate	0.50%
Loan Term (Year)	20
Estimated Annual Debt Service	\$ 4,072
Administrative Fee (0.20%)	200
<b>Total Estimated Annual Debt Service</b>	\$ 4,472

# V. PROJECT SCHEDULE

Bid Opening June 2020 Construction Start August 2020 Construction Stop November 2020

# VI. RATE STRUCTURE

# A. <u>Customers</u>

Current
1,626
240
2
1,872

#### B. Rates

	Water Inside City		Water Out	side City
	Current	Prior	Current	Prior
Date of Last Rate Increase	04/01/19	04/01/18	04/01/19	04/01/18
First 2,000 Gallons	\$19.32	\$18.96	\$24.87	\$24.41
Next 3,000 Gallons	9.07	8.90	12.16	11.93
Cost for 4,000 gallons	\$37.46	\$36.76	\$49.19	\$48.27
Increase %	1.9%		1.9%	
Affordability Index (Rate/MHI)	1.3%	1.3%	1.8%	1.7%

	Sewer Ins	side City	Sewer Out	side City
	Current	Prior	Current	Prior
Date of Last Rate Increase	04/01/19	04/01/18	04/01/19	04/01/18
First 2,000 Gallons	\$23.25	\$22.82	\$25.82	\$25.34
Next 2,000 Gallons	9.00	8.83	10.12	9.93
Cost for 4,000 gallons	\$41.25	\$40.48	\$46.06	\$45.20
Increase %	1.9%		1.9%	
Affordability Index (Rate/MHI)	1.5%	1.5%	1.7%	1.6%

The City has adopted a CPI clause since 2003 to automatically adjust rates each year based on the Consumer Price Index.

#### VII. DEMOGRAPHICS

Based on current Census data from the American Community Survey 5-Year Estimate 2013-2017, the Utility's service area population was 3,014 with a Median Household Income (MHI) of \$33,304. The median household income for the Commonwealth is \$46,535. The project will qualify for a 0.50% interest rate with its Median Household Income below 80% of the State median.

	ı	Population			Coun Unemplo	•
Year	City	% Change	County	% Change	Date	Rate
1980	2,835		12,323		June 2005	6.2%
1990	3,071	8.3%	12,292	-0.3%	June 2010	11.2%
2000	3,010	-2.0%	13,792	12.2%	June 2015	6.5%
2010	2,658	-11.7%	14,348	4.0%	June 2019	6.0%
Current	2,869	7.9%	14,515	1.2%		
Cumulative %		1.2%		17.8%		

#### VIII. FINANCIAL ANALYSIS

Financial information was obtained from the audited financial statements for the years ended June 30, 2017 through June 30, 2019. The non-cash impacts of GASB 68 - Accounting and Financial Reporting for Pensions and GASB 75 - Other Postemployment Benefit had been removed from operating expenses. Percentage references in the History section below are based on whole dollar amounts and not the rounded amounts presented. The City of Flemingsburg's Proprietary Fund is comprised of water, sewer, and gas operations, the financial statements are consolidated in this analysis.

#### **HISTORY**

Total combined revenues (water, sewer, gas) increased 7.8% from \$2.55 million in 2017 to \$2.75 million in 2019 due to annual CPI rate increases and higher volume of gas services. Operating expenses went up 9.2% from \$1.88 million to \$2.05 million during the same period attributable to higher gas purchase costs to meet the demand. Gas operation contributed an average of \$240,000 cash flow per year to the proprietary fund during the 3 years. The debt coverage ratio was 0.9, 1.6, and 1.5 for 2017, 2018, and 2019 respectively.

The consolidated Balance sheet reflects a current ratio of 4.4, a debt to equity ratio of 0.8, 34.5 days of sales in accounts receivable, and 14.2 months of operating expenses in unrestricted cash.

#### **PROJECTIONS**

Projections are based on the following assumptions:

- 1) Revenues will go up approximately 2% annually due to rate adjustments based on the Consumer Price Index.
- 2) Operating expenses will increase each year by 2% for inflation.
- 3) The City will receive a grant in the amount of \$180,610 from ARC to co-fund the project.
- 4) Debt coverage ratio is 1.6 in 2021 when full year principal and interest repayments are expected to begin.

Based on the pro forma assumptions, the utility shows adequate cash flow to repay the KIA Fund B loan.

#### REPLACEMENT RESERVE

The replacement reserve will be 5% (\$4,000 total) of the final amount borrowed (prior to principal forgiveness, if any) to be funded annually (\$200 yearly) each December 1 for 20 years and maintained for the life of the loan.

#### IX. DEBT OBLIGATIONS

	Outstanding	Maturity
General Obligation Bonds	\$ 1,867,050	2054
KIA Loan A11-01	6,097,176	2035
KIA Loan A12-19	131,337	2035
KIA Loan B18-005 i.a.o. \$132,046		TBD
Total	\$ 8,095,563	

#### X. CONTACTS

**Legal Applicant** 

Name City of Flemingsburg

Address 140 W Electric Ave, PO Box 406

Flemingsburg, KY 41056

County Fleming

Authorized Official Robert Money
Phone (606)845-5951

Email mayor@flemingsburgky.org

**Project Contact - Applicant** 

Name Cindy Ring

Organization Buffalo Trace Area Development District

Address PO Box 460

Maysville, KY 41056

Phone (606) 564-6894 Email cring@btadd.com

**Project Administrator** 

Name Kristie Dodge

Organization Buffalo Trace Area Development District

Address PO Box 460

Maysville, KY 41056

Phone (606) 564-6894

Email kdodge@btadd.com

**Consulting Engineer** 

Name Matthew Curtis

Firm Bluegrass Engineering, PLLC

Address PO Box 1657, 222 E Main St, Suite 1

Georgetown, KY 40324

Phone (502) 370-6551

Email mcurtis@bluegrassengineering.net

# XI. RECOMMENDATIONS

KIA staff recommends approval of the loan with the standard conditions.

#### CITY OF FLEMINGSBURG FINANCIAL SUMMARY (JUNE YEAR END)

FINANCIAL SUMMARY (JUNE YEAR END)								
	Audited	Audited	Audited	Projected	Projected	Projected	Projected	Projected
- · · · · ·	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Balance Sheet								
Assets								
Current Assets	2,760,638	2,602,431	2,771,941	2,804,900	2,838,922	2,874,785	2,912,793	2,952,936
Other Assets	20,892,494	20,818,571	20,304,750	19,990,692	20,093,029	20,052,235	19,771,821	19,510,831
Total _	23,653,132	23,421,002	23,076,691	22,795,592	22,931,951	22,927,020	22,684,614	22,463,766
Liabilities & Equity								
Current Liabilities	695,567	621,393	631,278	637,536	654,842	661,213	668,218	673,259
Long Term Liabilities	9,324,624	9,578,560	9,336,825	8,945,816	8,671,847	8,339,167	7,924,476	7,507,145
Total Liabilities	10,020,191	10,199,953	9,968,103	9,583,352	9,326,689	9,000,379	8,592,694	8,180,403
Net Assets	13,632,941	13,221,049	13,108,588	13,212,240	13,605,262	13,926,641	14,091,920	14,283,363
Cash Flow								
Revenues	2,548,744	2,745,816	2,750,077	2,804,126	2,859,256	2,915,488	2,972,845	3,031,349
Operating Expenses	1,878,455	2,036,078	2,051,897	2,086,585	2,122,497	2,158,586	2,195,397	2,232,944
Other Income	5,444	7,167	28,187	28,187	28,187	28,187	28,187	28,187
Cash Flow Before Debt Service	675,733	716,905	726,367	745,728	764,946	785,089	805,635	826,592
Debt Service								
Existing Debt Service	752,277	499,377	498,460	467,285	474,615	475,229	475,336	475,935
Proposed KIA Loan	0	0	0	0	2,114	4,227	4,227	4,227
Total Debt Service	752,277	499,377	498,460	467,285	476,729	479,456	479,563	480,162
Cash Flow After Debt Service	(76,544)	217,528	227,907	278,443	288,217	305,633	326,072	346,430
Ratios								
Current Ratio	4.0	4.2	4.4	4.4	4.3	4.3	4.4	4.4
Debt to Equity	0.7	0.8	0.8	0.7	0.7	0.6	0.6	0.6
Days Sales in Accounts Receivable	32.2	35.6	34.5	34.5	34.5	34.5	34.5	34.5
Months Operating Expenses in Unrestricted Cash	16.2	13.8	14.2	14.2	14.1	14.0	14.0	13.9
Debt Coverage Ratio	0.9	1.4	1.5	1.6	1.6	1.6	1.7	1.7

2/28/2020 10:09 AM, FinancialsPresentation

EXECUTIVE SUMMARY	Reviewer
KENTUCKY INFRASTRUCTURE AUTHORITY	Date
FUND F, FEDERALLY ASSISTED DRINKING WATER	KIA Loan Number
REVOLVING LOAN FUND	WRIS Number

BORROWER	CITY OF LEBANON F/B/O LEBANON WATER WORKS COMPANY INC
	MARION COUNTY

#### **BRIEF DESCRIPTION**

The proposed project will improve water quality by removing aging cast iron and potential lead service connections, reducing water loss from leaking lines and improving flow conditions. The elimination of potential lead connections will also help ensure that safe portable water is available to all sections of the City.

PROJECT FINANCING		PROJECT BUDGET	RD Fee %	Actual %	
Fund F Loan	\$5,238,230	Administrative Expense Legal Expenses Planning Eng - Design / Const Eng - Insp Eng - Other Construction	6.8% 3.6%		\$12,500 6,150 45,000 293,630 156,000 15,000 4,281,750
TOTAL	\$5,238,230	Contingency TOTAL			\$5,238,230
REPAYMENT	Rate Term	0.50% 30 Years	Est. Annual Payme	ent 6 Mo. after fir	\$151,375
PROFESSIONAL SERVICES	Engineer Bond Counsel	Kentucky Engineering Rubin & Hays			
PROJECT SCHEDULE	Bid Opening Construction Start Construction Stop	Jul-20 Nov-20 Mar-22			
DEBT PER CUSTOMER	Existing Proposed	\$2,463 \$4,775			
OTHER DEBT		See Attached			
RESIDENTIAL RATES	Current Additional	<u>Users</u> 2,626 0	<u>Avg. Bill</u> \$26.19 \$26.19	(for 4,000 gal	

#### REGIONAL COORDINATION This project is consistent with regional planning recommendations.

CASHFLOW	Cash Flow Before Debt Service	Debt Service	Cash Flow After Debt Service	Coverage Ratio
Audited 2017	923,114	423,100	500,014	2.2
Audited 2018	614,268	449,894	164,374	1.4
Audited 2019	739,495	541,297	198,198	1.4
Projected 2020	781,819	569,248	212,571	1.4
Projected 2021	777,105	624,381	152,724	1.2
Projected 2022	1,203,866	624,379	579,487	1.9
Projected 2023	1,034,142	775,755	258,387	1.3
Projected 2024	845,590	775,756	69,834	1.1

Meili Sun March 5, 2020 F20-002 WX21155044

Reviewer: Meili Sun

Date: March 5, 2020

Loan Number: F20-002

# KENTUCKY INFRASTRUCTURE AUTHORITY DRINKING WATER STATE REVOLVING FUND (FUND F) CITY OF LEBANON F/B/O LEBANON WATER WORKS COMPANY INC MARION COUNTY PROJECT REVIEW WX21155044

#### I. PROJECT DESCRIPTION

The City of Lebanon ("City") is requesting a Fund F loan in the amount of \$5,238,230 for the Water Main Replacement project. This project will replace old water mains located along Old Calvary Road and other main feed lines through downtown and central supply areas. The scope of work involves 80,000 linear feet of old cast iron lines, galvanized water mains of various sizes, and adjacent old service lines. Many of the older service lines may still have lead gooseneck connections that will be removed. The purpose of this project is to improve water quality and increase flow in areas where pipes are prone to frequent breaks and leaks. The removal of potential lead connections will also ensure safe water distribution to the customers.

The City produces 86% of its water supply and purchases the remainder from the City of Campbellsville ("Campbellsville") to serve approximately 2,600 retail customers and supplies wholesale water to the Marion County Water District (MCWD) which is a PSC regulated utility.

#### **PROJECT BUDGET**

	 Total
Administrative Expenses	\$ 12,500
Legal Expenses	6,150
Planning	45,000
Engineering Fees – Design	205,541
Engineering Fees – Construction	88,089
Engineering Fees – Inspection	156,000
Engineering Fees – Other	15,000
Construction	4,281,750
Contingency	 428,200
Total	\$ 5,238,230

# II. PROJECT FUNDING

	Amount	%
KIA Fund F Loan	\$ 5,238,230	100%
III. KIA DEBT SERVICE		
Construction Loan	\$ 5,238,230	
Principal Forgiveness	1,300,000	
Amortized Loan Amount	\$ 3,938,230	
Interest Rate	0.50%	
Loan Term (Year)	30	
Estimated Annual Debt Service	\$ 141,530	
Administrative Fee (0.25%)	 9,846	

151,375

# IV. PROJECT SCHEDULE

Bid Opening July 2020

Construction Start November 2020 Construction Stop March 2022

**Total Estimated Annual Debt Service** 

## V. CUSTOMER COMPOSITION AND RATE STRUCTURE

# A) Customers

Customers	Current
Residential	2,538
Commercial	47
Industrial	41
Total	2,626

# B) Rates

	Inside Cit	y Water	Outside City Water	
	Current	Prior	Current	Prior
Date of Last Rate Increase	07/08/19	11/15/17	07/08/19	11/15/17
Meter Charge	\$7.35	\$7.35	\$8.09	\$8.09
Per 100 Cubic Feet	3.50	3.35	3.85	3.69
Cost for 4,000 gallons	\$26.19	\$25.38	\$28.82	\$27.96
Increase %	3.2%		3.1%	
Affordability Index (Rate/MHI)	1.0%	1.0%	1.2%	1.1%

# Wholesale Water to MCWD

	Proposed	Current	Prior
Date of Last Rate Increase	09/15/20	11/15/19	04/16/18
Rate Case Expense Surcharge*	\$2,000.00	\$2,000.00	\$2,000.00
Meter Charge	7.84	7.84	7.84
Per 100 Cubic Feet	3.25	3.07	2.90
Cost for 4,000 gallons	\$25.22	\$24.26	\$23.45
Increase %	4.0%	3.4%	

<sup>\*</sup> Marion County Water District was ordered by the PSC to pay the City a \$2,000 monthly surcharge from July 2018 to June 2020 to reimburse the legal fees incurred by the City for the 2017 rate case.

## VI. <u>DEMOGRAPHICS</u>

Based on current Census data from the American Community Survey 5-Year Estimate 2013-2017, the Utility's service area population was 6,144 with a Median Household Income (MHI) of \$30,025. The median household income for the Commonwealth is \$46,535. The project will qualify for a 0.5% interest rate and \$1,300,000 in principal forgiveness.

Population					Coun Unemplo	•
Year	City	% Change	County	% Change	Date	Rate
1980	6,590		17,910		June 2005	6.2%
1990	5,695	-13.6%	16,499	-7.9%	June 2010	11.9%
2000	5,718	0.4%	18,212	10.4%	June 2015	5.2%
2010	5,539	-3.1%	19,820	8.8%	June 2019	4.4%
Current	5,584	0.8%	19,335	-2.4%		
Cumulative %		-15.3%		8.0%		

## VII. 2019 CAPITALIZATION GRANT EQUIVALENCIES

Additional Subsidization – This project qualifies for additional subsidization. Principal forgiveness of 50% of the assistance amount, not to exceed \$1,300,000 will be credited to the loan balance upon release of liens on all contracts and disbursement of the final draw request by KIA to the borrower.

#### VIII. FINANCIAL ANALYSIS

Financial information was obtained from the audited financial statements for the years ended June 30, 2017 through June 30, 2019. The non-cash impacts of GASB 68 – Accounting and Financial Reporting for Pensions and GASB 75 – Other Postemployment Benefit have been removed from the operating expenses. Percentage references in the History section below are based on whole dollar amounts and not the rounded amounts presented.

#### HISTORY

Revenues increased 19.1% from \$2.71 million in 2017 to \$3.23 million in 2019 due to volume and rate increases. Operating expenses increased 42.2% from \$1.79 million to \$2.55 million during the same period. The water purchase costs went up from \$0 in 2017 to \$390,000 in 2019 after the City began to purchase water from Campbellsville in 2018. The Maintenance and Repairs costs were also higher in 2019 due to clear well cleaning, purchase of safety equipment, and repairs or replacements of aged meters. The debt coverage ratio was 2.2, 1.4, and 1.4 in 2017, 2018, and 2019 respectively.

The balance sheet reflects a current ratio of 0.8, a debt to equity ratio of 1.2, 47.5 days of sales in accounts receivable, and 1.4 months operating expenses in unrestricted cash.

#### **PROJECTIONS**

Projections are based on the following assumptions:

- 1) Total revenues will go up approximately 5% by 2021 due to previously approved retail and wholesale rate increases.
- 2) A new industrial customer, Diageo Distillery, will initiate operations in FY 2021 and contribute at least \$700,000 additional revenues each year to the City.
- 3) Water purchase costs will increase 4% by 2023 to meet the quantity requirement of the Campbellsville service agreement.
- 4) Water treatment costs will increase 3% in 2021 for the additional volume used by Diageo Distillery.
- 5) Operating expenses other than water purchase and treatment costs will increase 2% annually for inflation.
- 6) Debt service coverage is 1.3 in 2023 when full year principal and interest repayments are expected to begin.

Based on the pro forma assumptions, the utility shows adequate cash flow to repay the KIA Fund F loan.

## REPLACEMENT RESERVE

The replacement reserve will be 5% (\$262,000 total) of the final amount borrowed prior to principal forgiveness to be funded annually (\$13,100 yearly) each December 1 for 20 years and maintained for the life of the loan.

# IX. <u>DEBT OBLIGATIONS</u>

	C	Maturity	
KIA Loan B08-09	\$	350,263	2030
KIA Loan F15-057		635,784	2036
KIA Loan F14-036		2,048,266	TBD
KIA Loan F18-006 i.a.o. \$4,497,137		623,727	TBD
CNB Note, 2012		2,758,144	2030
CNB Note, 2013		51,546	2020
	\$	6,467,730	

## X. CONTACTS

Legal Applicant	
Name	City of Lebanon
Address	PO Box 840
	Lebanon, KY 40033
County	Marion
Authorized Official	Gary D. Crenshaw, Mayor
Phone	(270) 692-6272
Email	gdcrenshaw@windstream.net

Project Contact - Applicant	
Name	Daren Thompson
Organization	Lebanon Water Works Company
Address	120 S Proctor Knott Ave
	Lebanon, KY 40033
Phone	(270) 692-2491
Email	daren.thompson@lebanonwaterworks.com

**Project Administrator** 

Name Holly Nicholas

Organization Kentucky Engineering Group, PLLC

Address PO Box 1034

Versailles, KY 40383

Phone (859) 333-9742

Email hnicholas@kyengr.com

**Consulting Engineer** 

Name James C. Thompson

Firm Kentucky Engineering Group, PLLC

Address 161 North Locust Street

Versailles, KY 40383

Phone (859) 251-4127

Email jthompson@kyengr.com

# XI. <u>RECOMMENDATIONS</u>

KIA staff recommends approval of the loan with the standard conditions.

# CITY OF LEBANON F/B/O LEBANON WATER WORKS COMPANY INC FINANCIAL SUMMARY (JUNE YEAR END)

THURSON COMMINENT (COME TEXAL END)	Audited 2017	Audited 2018	Audited <u>2019</u>	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Balance Sheet								<u></u>
Assets								
Current Assets	1,315,012	1,106,450	852,765	912,155	963,900	1,157,898	1,209,575	1,223,542
Other Assets	14,134,160	14,371,184	16,137,911	15,496,240	19,216,676	23,901,761	23,091,734	22,131,570
Total	15,449,172	15,477,634	16,990,676	16,408,395	20,180,576	25,059,658	24,301,309	23,355,112
Liabilities & Equity								
Current Liabilities	625,652	797,732	1,122,160	1,092,273	1,210,258	1,364,332	1,387,637	1,417,180
Long Term Liabilities	6,918,807	7,569,849	8,303,231	7,897,883	10,884,587	14,171,510	13,510,298	12,833,244
Total Liabilities	7,544,459	8,367,581	9,425,391	8,990,156	12,094,845	15,535,842	14,897,935	14,250,423
Net Assets	7,904,713	7,110,053	7,565,285	7,418,239	8,085,731	9,523,816	9,403,374	9,104,688
Cash Flow								
Revenues	2,708,423	3,039,614	3,227,184	3,356,708	3,519,401	4,118,771	4,118,771	4,118,771
Operating Expenses	1,794,032	2,444,908	2,551,826	2,614,226	2,781,633	2,954,242	3,123,966	3,312,518
Other Income	8,723	19,562	64,137	39,337	39,337	39,337	39,337	39,337
Cash Flow Before Debt Service	923,114	614,268	739,495	781,819	777,105	1,203,866	1,034,142	845,590
Debt Service								
Existing Debt Service	423,100	449,894	541,297	569,248	624,381	624,379	624,380	624,381
Proposed KIA Loan	0	0	0	0	0	0	151,375	151,375
Total Debt Service	423,100	449,894	541,297	569,248	624,381	624,379	775,755	775,756
Cash Flow After Debt Service	500,014	164,374	198,198	212,571	152,724	579,487	258,387	69,834
Ratios								
Current Ratio	2.1	1.4	0.8	0.8	0.8	0.8	0.9	0.9
Debt to Equity	1.0	1.2	1.2	1.2	1.5	1.6	1.6	1.6
Days Sales in Accounts Receivable	48.1	57.7	47.5	47.5	47.5	47.5	47.5	47.5
Months Operating Expenses in Unrestricted Cash	4.8	1.9	1.4	1.6	1.6	2.0	2.1	2.0
Debt Coverage Ratio	2.2	1.4	1.4	1.4	1.2	1.9	1.3	1.1

2/25/2020 10:04 AM, FinancialsPresentation 78