### Certification of Compliance with Act 605 of 2021 Ark. Code Ann. §14-234-802.

The City of Keiser Waterworks System rate study conducted by Communities Unlimited Inc.

The rate analysis complies with the rules and code pertaining to Act 605 of 2O21 Ark. Code Ann. §14-234-802.

Attached is a copy of the Act 605 and the ANRD rules adopted by the commission for your review as well as the rate study findings. Your water system is required to meet the new requirements and rules of Act 605 of 2O21 by July 1, 2024, based on the number of connections on your system.

Retail water providers shall obtain rate studies pursuant to the requirements in Ark. Code Ann. §14-234-802.

Communities Unlimited Inc. has conducted the rate analysis for the City of Keiser Waterworks System as the city plans to undertake a major development project as defined above and in Ark. Code Ann.§ 14-234-802 (h) (2),

The City of Keiser Waterworks System has obtained a rate study conducted by Communities Unlimited and will amend the existing rate study before beginning the major development project to include consideration of the financial impact of the major development project on the fiscal sustainability of the City of Keiser Waterworks System.

The City of Keiser Waterworks rate study analysis is based on the FY 2024 financial statements and contain five-year projects through 2028 for its capital improvement projects. Rate recommendations for the City of Keiser Waterworks include:

- Establishing a Refurbishment and Replacement account and deposit \$8,855.37 each year to cover the cost of replacing its water assets for the system's operations and maintenance.
- Increase sewer rates by 3% to account for sewer improvements, cost of inflation and variable expenses.
- Per this report, the City of Keiser Waterworks is considered sustainable with an operating projected ratio of 1.98 for 2024, 1.71 for 2025, 1.68 for 2026, 1.65 for 2027, and 1.62 for 2028.

Furthermore, rate studies are required to comply with the rules of Act 605, which require each water provider to meet a 1.1 Debt Service Coverage Ratio (DSCR). As well as the provider shall deposit a minimum of 5% per annum of gross revenues into a dedicated "Refurbishment and Replacement Account" or "Depreciation Account" within twelve

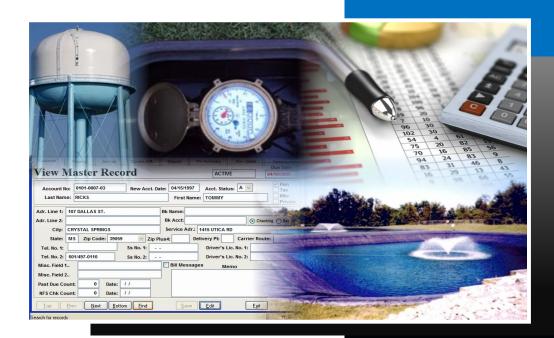
months of the implementation of the rate unless a different amount is determined by the rate study.

Communities Unlimited Inc. is familiar with (a) Act 605 of 2021, codified at Title 14, Chapter 234, Subchapter 8 of the Arkansas Code of L987 Annotated (the "Legislation") and (b) the rules implementing the legislation which have been adopted by the Arkansas Natural Resources Commission (the "Rules").

That the Rate Study complies with the Legislation and the Rules.

**Brad Jarrett** 

Communities Unlimited Arkansas State Coordinator.



The compilation of this Utility Rate Analysis and other technical assistance is provided at no cost to the

City of Keiser Water and Sewer

by Communities Unlimited through funding provided by the

U.S. Department of Human Services-Office of Community Services

www.communitiesu.orgApril 29, 2024 -



Corporate Headquarters 3 E Colt Sq Dr Fayetteville Arkansas (AR) 72703-2884



phone 479-443-2700 facsimile 479-443-5036 internet www.communitiesuorg

April 29, 2024

Honorable Ricky Creecy, Mayor City of Keiser Water and Sewer P.O. Box 138 Keiser, AR 72351

Dear Honorable Creecy,

We are pleased to present you with this Utility Rate Analysis which was compiled using information derived from your current rate structures and your Fiscal Year 2024 (05/31/2024) financial statements. This assistance is provided to the City of Keiser Water and Sewer at no cost through a technical assistance agreement with the U.S. Department of Human Services-Office of Community Services but we hope that you, your governing board, and your management team will find value in using this report as a tool to assist you in adjusting your rates.

Shown below is a summary of your current rates on the left and the proposed rates on the right. It is recommended that you consider implementing this rate adjustment on or before 07/01/2024. The proposed rates constitute an overall 3.00% increase from your Existing Average Combined Bill of \$151.86 to the roposed Average Combined Bill of \$156.27:

Residential Water -		xisting	Proposed Residential Sewer -		Existing		Proposed		
Minimum or Demand Rate:	\$	10.50 <b>\$ 10.82</b>		10.82	Minimum or Demand Rate:	\$	5.25	\$	5.41
Volumetric Rate:	\$	1.35	\$	1.39	Volumetric Rate:	\$	0.68	\$	0.70
Average Monthly Residential Water Bill:	\$	44.59	\$	45.92	Average Monthly Residential Sewer Bill:	\$	12.93	\$	13.31
Rural- Water -		xisting	Pro	oposed	Commercial Water -	E	xisting	Pre	oposed
Minimum or Demand Rate:	\$	18.00	\$	18.54	Minimum or Demand Rate:	\$	18.00	\$	18.54
Volumetric Rate:	\$	1.45	\$	1.49	Volumetric Rate:	\$	1.45	\$	1.49
Average Monthly Rural- Water Bill:	\$	37.12	\$	38.18	Average Monthly Commercial Water Bill:	\$	57.22	\$	58.84

With the implementation of the proposed rates, the City of Keiser Water and Sewer is proposed to increase their total cash by \$862,150 to a projected fund balance of \$1,719,070 by the end of 2028. Factors calculated for both this rate analyis, rate affordability, and the long-range projections include the following: Inflation Index-3.60%; Median Household (Monthly) Income-\$2,604; Poverty Percentage-37.0%; Current Unemployment Rate to National Rate-20%; Affordability Factor (of Median Household Income)-1.6% (Adjusted for high Poverty / high Unemployment); and, Calculated Maximum Affordable Monthly Bill of \$41.67.

We appreciate this opportunity to work with the City of Keiser Water and Sewer and understand that you may choose to have a more thorough rate analysis performed that benchmarks detailed customer usage patterns, other scenarios of debt retirement and new debt to be incurred, as well as additional multiple rate proposals. If you would like to discuss a more thorough analysis or additional proposals, Community Resource Group has the capacity to provide this additional service on a fee-for-service basis. For more information on this or other services that we can provide to the City of Keiser Water and Sewer, please contact me at (479) 313-0621 or my supervisor, Central States Area Director Karen Conrad at (479) 313-0621.

Sincerely,

Brad Jarrett State Coordinator

Communities Unlimited missision is to move rural and under-resourced communities in areas of persistent poverty to sustainable prosperity.

BRAD JARRETT • STATE COORDINATOR

P.O. Box 615 E. Cooper, West Memphis, AR

Phone (479) 313-0621 • Fax • E-mail: brad.jarrett@communitiesu.org

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April 29, 2024

	SOURCE DOCU	MENTATION	
ty System Data:			
Residential Water -		Residential Sewer -	
<b>Current Active Customer Count:</b>	303	Current Active Customer Count:	279
Minimum or Demand Rate:	\$ 10.50	Minimum or Demand Rate:	\$ 5.25
Minimum Allowance (if applicable):	1,000	Minimum Allowance (if applicable):	1000
Volumetric Rate (if applicable):	\$ 1.35	Volumetric Rate (if applicable):	\$ .68
Rural- Water -		Commercial Water -	
Current Active Customer Count:	31	Current Active Customer Count:	21
Minimum or Demand Rate:	\$ 18.00	Minimum or Demand Rate:	\$ 18.00
Minimum Allowance (if applicable):	1000	Minimum Allowance (if applicable):	1000
Volumetric Rate (if applicable):	\$ 1.45	Volumetric Rate (if applicable):	\$ 1.45

Date of Last Audit (or Compilation Report): May 31, 2024

Revenues -Expenses -

Residential Water Service: \$ 162,143 Principal Installments: 21,654 Residential Sewer Service: \$ 43.285 Interest Installments: \$ 33.282 Rural-Water Service: \$ 13,807 Other Fixed Expenses: \$ 36,079 Commercial Water Service: \$ 14.420 Total Fixed Expenses: \$ 91,015 Other Income: \$ 157,113 Variable Expenses: 188,075 Total Revenues: \$ 390.768 279.090 Total Expenses:

### Fund Balance -

Fund Balance (June 1, 2023): 745.242 Net Change to Fund Balance: 111.678 Fund Balance (May 31, 2024): 856,920 **Unrestricted Cash & Investments:** 378,822 Restricted Cash & Investments: 478,098 856.920

### PAST AND CURRENT OPERATING RATIO ANALYSIS

2024 Fiscal Year Operating Ratio:

COMMUNITIES

1.40

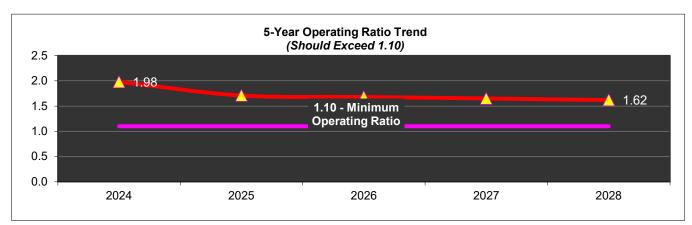
2024 Fiscal Year Projected Operating Ratio:

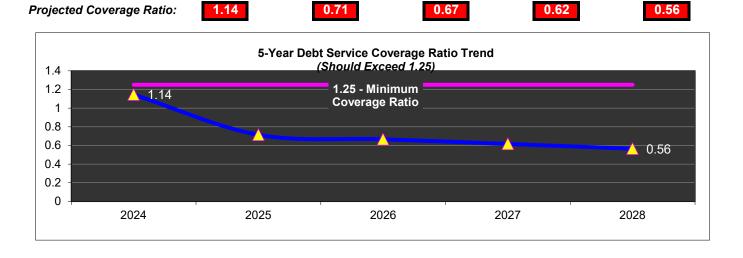
1.98

- 1.10 or Greater: Sustainable The utility is generating the necessary Operating Revenues to cover not only current expenses but to also set aside reserve funds for the replacement or repair of major system components. Financially Sustainable utilities should continue to review the financial sustainability of the utiliity each year and be prepared to increase rates before the operating ratio is projected to drop below 1.10.
- 1.03 1.09: Operational The utility is generating the necessary revenues to adequately cover current operational expenses but may fall short in maintaining or aquiring the resources to adequately plan for the replacement or repair of major system components. Usually, utilities considered financially Operational should soon consider a small rate increase before financial viability is threatened.
- 1.00 1.02: Threatened The utility is generating the necessary revenues to cover current operational expenses but may NOT be able to continue sustainable operations. Additionally, the utility can NOT expect to adequately plan for the replacement or repair of major system components. Usually, Utilities considered financially Threatened should implement a moderate rate increase as soon as possible.
- Less than 1.00: Non-Sustainable The utility is NOT generating the necessary revenues to cover operational expenses NOR is able to fund the replacement or repair of major system components without significantly depleting reserve funds. Financially Non-Sustainable utilities should significantly increase rates immediately.

Unlimited April 29, 2024 Page 2

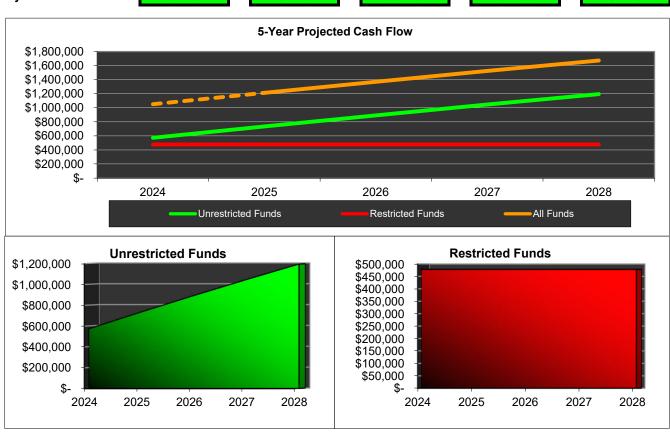
	Current Fiscal		Fi	scal Year						
Revenues -	Ye	ear - 2024		2025		2026		2027		2028
Residential Water Service:	\$	162,143	\$	162,143	\$	162,143	\$	162,143	\$	162,143
Residential Sewer Service:	•	43,285	\$	43,285	\$	43,285	\$	43,285	\$	43,285
Rural- Water Service:	\$	13,807	\$	13,807	\$	13,807	\$	13,807	\$	13,807
Commercial Water Service:	\$	14,420	\$	14,420	\$	14,420	\$	14,420	\$	14,420
Other Income:	\$	157,113	\$	157,113	\$	157,113	\$	157,113	\$	157,113
Total Projected Income:	\$	390,768	\$	390,768	\$	390,768	\$	390,768	\$	390,768
Expenses -										
Variable Expenses:	\$	106,494	\$	110,328	\$	114,300	\$	118,414	\$	122,677
Principal Installments:	\$	21,979	\$	33,440	\$	33,942	\$	34,451	\$	34,968
Interest Installments:	\$	32,957	\$	49,319	\$	48,818	\$	48,309	\$	47,792
Other Fixed Expenses:	\$	36,079	\$	36,079	\$	36,079	\$	36,079	\$	36,079
Total Projected Expenses:	\$	197,509	\$	229,166	\$	233,138	\$	237,253	\$	241,516
Operational Earnings:	\$	193,259	\$	161,602	\$	157,630	\$	153,515	\$	149,252





April 29, 2024 Page 3

LONG RANGE CASH FLOW ANALYSIS MAINTAINING EXISTING RATE STRUCTURES - <u>NO CHANGE</u>											
	Current Fiscal Year - 2024		F	Fiscal Year 2025		Fiscal Year 2026		Fiscal Year 2027		Fiscal Year 2028	
Operational Earnings:	\$	193,259	\$	161,602	\$	157,630	\$	153,515	\$	149,252	
Financing and											
Construction Activities -											
Projected Loans:	\$	550,000			\$	-			\$	-	
Projected Grants:	\$	-			\$	-			\$	-	
Capital Outlay:	\$	(550,000)	\$	-	\$	-	\$	-	\$	-	
Cash from Financing and								_			
Construction Activities:	\$	-	\$	-	\$	-	\$	-	\$	-	
Net Increase to Cash:	\$	193,259	\$	161,602	\$	157,630	\$	153,515	\$	149,252	
Cash Beginning of Period:	\$	856,920	\$	1,050,179	\$	1,211,781	\$	1,369,410	\$	1,522,926	
Net Increase (Decrease):	\$	193,259	\$	161,602	\$	157,630	\$	153,515	\$	149,252	
Cash End of Period:	\$	1,050,179	\$	1,211,781	\$	1,369,410	\$	1,522,926	\$	1,672,178	
Cash & Investments -											
Unrestricted Funds:	\$	572,081	\$	733,683	\$	891,312	\$	1,044,828	\$	1,194,080	
Restricted Funds:	\$	478,098	\$	478,098	\$	478,098	\$	478,098	\$	478,098	
Projected Fund Balance:	\$	1,050,179	\$	1,211,781	\$	1,369,410	\$	1,522,926	\$	1,672,178	



April 29, 2024 Page 4

	OVERALL FINAN								
Analysis of Curr	ent Financial Position	Sustainable	Operational	Threatened	Non-Sustainable				
Current Ope	erating Ratio:	15							
<b>Current Cov</b>	erage:				0				
<b>Current Cas</b>	h Flow:	15							
	<b>Current Financial Viability Rating:</b>		30						
		34 - 45	22 - 33	11 - 21	0 - 10				
		76% or Higher	49% - 75%	24% - 48%	Less than 24%				
Analysis of Lond	g-Term Financial Position	Sustainable	Operational	Threatened	Non-Sustainable				
-	Operating Ratio:	15	O p 0.1 d.1 d 11 d.1						
Long-Term	-				0				
Long-Term	_	15							
_	ng-Term Financial Viability Rating:		30						
		34 - 45	22 - 33	11 - 21	0 - 10				
		76% or Higher	49% - 75%	24% - 48%	Less than 24%				
	Overall Financial Viability Rating:	30	OPERA	TIONAL					
	Urgency to Increase Rates:			W					
		Extremely High			.ow None				
	GENER	AL RECOMMEN	DATION:						
Sustainable	Systems which are considered to be term but should review the rates on a funds are adequately funded and that	an annual basis to	ensure that both o	perational funds a	and capital reserve				
OPERATIONAL	The current as well as long-term v considered to be financially Opera cause a negative cash-flow of \$19 the City of Keiser Water and Sewe	ational. The Opera 3,259 and further	ating Ratio is proj deplete system r	ected to drop to	in which will				
Threatened	Systems which are considered to be financially Threatened are not generating enough revenues to cover more than two months of operational expenses. Additionally, capital reserve funds necessary for the repair / replacement of critical system components are not adequately funded and the system is at risk of depleting existing reserve funds. It is usually recommended that financially Threatened systems implement a moderate rate increase as soon as possible before the Operating Ratio falls below 1.10.								
Non Sustainable	Systems which are considered to be operational expenses. Systems exp deferring maintenance and at the lead of critical system components. Both ultimately lead to serious regulatory systems implement a significant rate	eriencing even brienst, not possess the of these resulting a compliance issues	ef periods of non-su e capacity to feasib actions caused by f . It is usually recon	ustainable operati oily plan for the re jinancial non-susta	ons run the risk of pair / replacement ainability will				

COMMUNITIES
© Unlimited April 29, 2024 Page 5

PROPOSED NEW RATES										
Overa	II Propose	d Rat	te Increase:	3.0%						
E	Existing Proposed				Existing	Pro	posed			
Residential Water -				Residential Sewer -						
Minimum or Demand Rate: \$	10.50	\$	10.82	Minimum or Demand Rate:	\$ 5.25	\$	5.41			
Volumetric Rate: \$	1.35	\$	1.39	Volumetric Rate:	\$ 0.68	\$	0.70			
Vonthly Residential Water Bill: \$	44.59	\$	45.92	Average Monthly Residential Sewer Bill:	\$ 12.93	\$	13.31			
Rural- Water -				Commercial Water -						
Minimum or Demand Rate: \$	18.00	\$	18.54	Minimum or Demand Rate:	\$ 18.00	\$	18.54			
Volumetric Rate: \$	1.45	\$	1.49	Volumetric Rate:	\$ 1.45	\$	1.49			
રૂge Monthly Rural- Water Bill: 💲	37.12	\$	38.18	Average Monthly Commercial Water Bill:	\$ 57.22	\$	58.84			
Existing Average Cor	mbined Bi	\$	151.86	\$ 156.27 Proposed A	Average Cor	nbined	Bill			
Affordability -			(	(+\$3.69)						

Affordability -

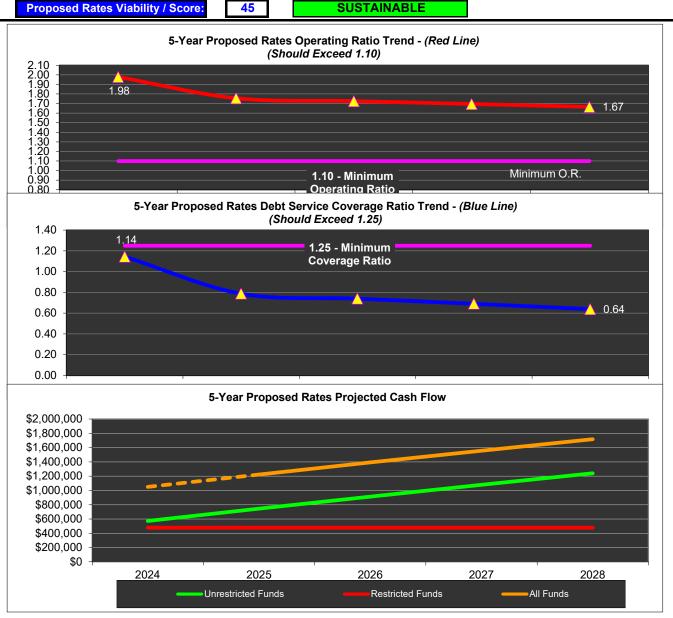
The proposed increase of 3.0% more per month to an average monthly bill of is still within the adjusted affordability index of 1.6% of the annual City of Keiser Water and Sewer Median Household Income of \$31,250 (\$41.67 per month).

The affordability index of 2.0% was adjusted down to 1.6% due to high poverty (37%).

LONG RANGE BUDGET & CASH FLOW ANALYSIS - Proposed New Rates										
	Cu	rrent Fiscal	F	iscal Year	F	iscal Year	F	iscal Year	F	iscal Year
	`	rear - 2024		2025 2026 2027		2027		2028		
Revenues -										
Residential Water Service	\$	162,143	\$	167,007	\$	167,007	\$	167,007	\$	167,007
Residential Sewer Servi	\$	43,285	\$	44,584	\$	44,584	\$	44,584	\$	44,584
Rural- Water Service:	\$	13,807	\$	14,221	\$	14,221	\$	14,221	\$	14,221
Commercial Water Serv	\$	14,420	\$	14,853	\$	14,853	\$	14,853	\$	14,853
Other Income:	\$	157,113	\$	161,826	\$	161,826	\$	161,826	\$	161,826
Total Projected Income:	\$	390,768	\$	402,491	\$	402,491	\$	402,491	\$	402,491
Expenses -										
Variable Expenses:	\$	106,494	\$	110,328	\$	114,300	\$	118,414	\$	122,677
Principal Installments:	\$	21,979	\$	33,440	\$	33,942	\$	34,451	\$	34,968
Interest Installments:	\$	32,957	\$	49,319	\$	48,818	\$	48,309	\$	47,792
Other Fixed Expenses:	\$	36,079	\$	36,079	\$	36,079	\$	36,079	\$	36,079
Total Projected Expenses:	\$	197,509	\$	229,166	\$	233,138	\$	237,253	\$	241,516
Operational Earnings:	\$	193,259	\$	173,325	\$	169,353	\$	165,238	\$	160,975
Financing and										
Construction Activities -										
Projected Loans:	\$	550,000	\$	_	\$	_	\$	_	\$	_
Projected Grants:	\$	-	\$	_	\$	_	\$	_	\$	_
Capital Outlay:	\$	(550,000)	\$	-	\$	-	\$	-	\$	-
Cash from Financing and	\$	-	\$	-	\$	-	\$	-	\$	-
Net Increase to Cash:	\$	193,259	\$	173,325	\$	169,353	\$	165,238	\$	160,975
Cash Beginning of Period:	\$	856,920	\$	1,050,179	\$	1,223,504	\$	1,392,857	\$	1,558,095
Net Increase (Decrease):		193,259	\$	173,325	\$	169,353	\$	165,238	\$	160,975
Cash End of Period:		1,050,179	\$	1,223,504	\$	1,392,857	\$	1,558,095	\$	1,719,070
Cash & Investments -										
Unrestricted Funds:	\$	572,081	\$	745,406	\$	914,759	\$	1,079,997	\$	1,240,972
Restricted Funds:	\$	478,098	\$	478,098	\$	478,098	\$	478,098	\$	478,098
Projected Fund Balance:	\$	1,050,179	\$	1,223,504	\$	1,392,857	\$	1,558,095	\$	1,719,070

April 29, 2024 Page 6

### SUSTAINABILITY COMPARISION OF EXISTING RATES TO PROPOSED RATES 2024 2025 2026 2027 2028 1.98 **Current Rates Operating Ratio:** 1.71 1.68 1.65 1.62 **Proposed Rates Operating Ratio:** 1.98 1.76 1.73 1.70 1.67 0.62 **Current Rates Coverage Ratio:** 1.14 0.71 0.67 0.56 0.79 0.74 0.69 0.64 **Proposed Rates Coverage Ratio:** 1.14 **Current Rates Fund Balance:** \$1,050,179 \$1,223,504 \$1,369,410 \$1,522,926 \$ 1,672,178 \$1,050,179 \$1,223,504 \$1,558,095 **Proposed Rates Fund Balance:** \$1,392,857 \$ 1,719,070 **Current Rates Viability / Score:** 30 **OPERATIONAL SUSTAINABLE Proposed Rates Viability / Score:** 45



April 29, 2024 Page 7 Unlimited

### **Notes**

- The City of Keiser Water and Sewer provided Communities Unlimited (CU) with the minimal source documentation necessary to complete this rate analysis. Among the information provided included the City of Keiser Water and Sewer Audit for the year-ending May 31, 2024 compiled by S.Don, CPA. Information included in this financial report including the year-ending cash balances (restricted and unencumbered), revenues generated by utility rates, other revenues and income, expenses (excluding depreciation expense), and debt service including existing prinicipal and interest note payments was intregral in analyzing the impact of the City of Keiser Water and Sewer's existing rate structures.
- 2. U.S. Census Data from the ACS 5-year estimates was obtained to determine the City of Keiser Water and Sewer's estimated service area Median Household Income of \$31,250, a Poverty Rate of 37.0%, and an Local Unemployment Comparison to the national average of 20.0%. The standard affordability index of 2.0% for one utility service was adjusted down to 1.6% due to high poverty (37.0%
- 3. Historical growth in the number of the City of Keiser Water and Sewer Water System customers over the last five years, (since 2019), was calculated at 0.0% (or 0.00% per year). This 0.00% percentage factor is projected as future annual growth in revenues over the next five years for the City of Keiser Water and Sewer
- 4. A detailed cost analysis was not performed but rather the City of Keiser Water and Sewer's audited expenses were calculated at 43% variable expenses (\$106,494 excluding debt service in 2023) and 57% fixed expenses (\$137,266 plus \$54,936 in existing debt service). An annual inflation factor of 3.60% was used in projecting increases in future variable expenses.

### **Disclaimer**

The accuracy of future projections with any financial analysis depends upon not only using accurate source data but can also be influenced by other factors which could significantly effect current and long-term projections. Other factors include unanticipated exceptional increases in operating costs, increased O&M system repair and rehabilitation needs, decline in customer population, and the significant slowing of customer water meters. All of which may negatively impact current and long-term financial projections. Additionally, inaccurate source documentation obtained from the City of Keiser Water and Sewer may also negatively impact projections. As such, Communities Unlimited and its Federal and/or State Contracting Agencies offers NO warranty or guarantee related to the projections contained herein this analysis.

# **COMMUNITIES**Unlimited

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3 East Colt Square Drive, Fayetteville, Arkansas 72703-2884.



## City of Keiser Waterworks Asset Management Plan

## Inventory of System Assets:

The following table represents the short-lived assets of the City of Keiser utility systems. These components have a normal life expectancy of 1-5 years; 5-10 years; or 10-15 years. Line replacement falls in a category of more than 15 years, and while there is a need to save funds towards these replacements, that amount is not included in the asset management plan. Replacement costs were obtained by research of a water line replacement project under construction and through the internet.

Asset Type	Year Installed	Useful Life - Vendor Specified	Anticipated Date of Replacement	Number of Units Installed	Replacement Cost Per Unit	Total Replace Cost	Annual Maintenance Cost
Water Meters	2015	10-15 Years	23 (7%) per year thru 12/2029	115	\$130.00	\$15,398.50	\$3,079.70
Chlorinator Booster	2016	15 Years	2029	1	\$1,500.00	\$1,545.00	\$309.00
2007 Chevy Truck	2012	15-20 Years	2029	1	\$20,000.00	\$21,333.33	\$4,266.67
Elevated Water Storage Tank Inspection	2022	5 Years	2027	2	\$3,000.00	\$6,000.00	\$1,200.00
Totals						\$44,276.83	\$8,855.37



ASSET TYPE	Score	PROJECTED CONSEQUENCE OF FAILURE
Water Meters (Radio Read)	5	Water meters have an efficiency lifespan of 10 to 15 years. After that the unregistered water flow correlates into lost revenues. This can show a loss of 10% or more on the unaccounted water loss report. The Arkansas Department of Health has set a goal of less than 15% water loss for a PWS. If Keiser waterworks had a loss of 10% in the 115 meters, it would show a water loss of 690,000 gallons per year based on a 5,000 gallon per month per household usage.
Chlorinator Booster	7	Chlorinator boosters are essential to the treatment process to maintain the chlorine levels in the drinking water. Inefficient boosters could supply too little chemical treatment to properly disinfect the water or too high of a level of chemicals resulting in hazardous levels of disinfectant byproducts in the water. Keiser Waterworks has a small system and a disruption in the chlorination process could potentially affect the entire system before any response could be implemented.
2007 Chevy Truck	7	Keiser Waterworks should maintain reliable transportation vehicles to allow for quick response to emergencies, the safety of workers traveling to and from worksites, and performing the day to day tasks.
Elevated Water Storage Tank Inspection	5	The Keiser Waterworks has two elevated storage tanks built in 1928 and 1982 which makes both tanks past the manufacturer's useful life expectancy. These tanks are beginning to require major maintenance and rehabilitation to maintain structural integrity and water quality. The Arkansas Department of Health requires PWS finished water storage tanks to have a comprehensive inspection including both the inside and outside of the tank completed at least once in any given five-year period to stay in compliance. These inspections are a crucial step in monitoring for any potential hazards or faults that may develop.



### CONDITION OF ASSET SCORING

Excellent	t	Good		Mode	rate	Po	or	Critic	al
(1-2)		(3-4)	)	(5-0	<b>6</b> )	(7-	-8)	(9-10	)
Asset is like new, operable, we maintained, at performs consiste or above curre standards. Little shown and no fu action require	ently at ently wear wear	Asset is sound maintained by showing some wear. Delive efficiency with no perform deteriora. Virtually maintenance is preventive in At worst, on repair might be in the near	ut may be e signs of ering full th little or mance tion. y all ss planned n nature. ly minor be needed	Asset is fun sound, sh normal sign relative to age. Ma minor fail diminisefficiency a perform deterioration showing increa maintenance operation Minor to n refurbishm be needed in term	s of wear use and y have ures or shed und some nance n. Likely modest sed ee and/or s costs. noderate ent may n the near	requisustain leve mainter remain op Shows su wear and to cause s perfor deteriorat near term term so rehabili replace	ections but ires a ed high el of nance to perational. ubstantial d is likely significant mance tion in the m. Near heduled tation or eement ded.	Effective life of and/ or exc maintenance incurred. A his breakdown or failure with impact on perf No addition expectancy: in replaceme rehabilitation	essive the cost gh risk of imminent serious formance. all life numediate
1	2	3	4	5	6	7	8	9	10

Source: www.epa.gov

### **Schedule for Replacement:**

During assessments conducted with the City of Keiser Waterworks, the above outlined water assets were identified. The system has 343 water connects that contain radio read meters. Replacement of the 115 meters in 5 years or 1/3 of the total number including inflation cost is \$15,398.50. The annual cost would be \$3,079.70 or \$256.64 per month to put in a reserve account to replace these meters in 5 years.

Keiser Waterworks currently has a Booster Chlorinator that needs replaced. The cost is \$1,545.00 with inflation. The system would need to budget \$309.00 per year or \$25.75 of savings each month to meet the yearly obligation.

Keiser Waterworks currently replaces work trucks as needed. The cost of replacing one truck in the next five years with inflation is approximately \$21,333.33 or \$4,266.67 per year. The system would need to budget \$355.56 of savings each month to meet the yearly obligation.

Keiser Waterworks has two water storage tanks. According to the Arkansas Department of Health regulations, these tanks must be inspected at least once every five years. The average cost for a tank inspection is \$3,000.00. The cost for these inspections will be \$6,000.00 over the next five years. Keiser Waterworks will need to budget \$1,200.00 per year or \$100.00 per month to



accomplish this requirement. The next anticipated tank inspections for the two tanks will be in 2027.

Overall, the total replacement cost for the water assets lists totals \$44,276.83. The system would have to budget \$8,855.37 dollars each year or \$737.95 each month for 12 months to prepare for water asset replacements and maintain operational health of the system.