SUMMARY ADDENDUM

TO

PRELIMINARY ENGINEERING REPORT

DATED <u>Jar</u>	nuary 2021 Revised November 2022							
FC	OR							
Rattlesnake Ridge Water District – Phase 12 Water System Improvements Project (Name of Project)								
APPLICANT CONTACT PERSON _	Bill Gilbert, Chairman							
APPLICANT PHONE NUMBER	(606) 474-7570							
APPLICANT TAX IDENTIFICATION	NUMBER (TIN) 61-1037311							

I. <u>GENERAL</u>

A. Proposed Project: Provide a brief description of the proposed project. In addition to this summary, the applicant/engineer should submit a project map of the service area.

The proposed project is to replace approximately 4,000 water meters and the associated service lines. In total, about 7,000 feet of Blue-Max line will be replaced with PVC line along with 700 meter setters that have been problematic since installation. All new meters installed will be radio read. In addition to customer meters, five master meters will be installed at various points around the system to better monitor water loss. RTUs will also be used to provide new information in a more timely manner.

A.	Sewage Treatment:	
1.	Туре	-
2.	Method of Sludge Disposal	
3.	Cost per 1,000 gallons if sewage treatment is contracted:	
	\$	
4.	Date Constructed	
B.	Treatment Capacity of Sewage Treatment Plant	-
C.	Type of Sewage Collector System (Describe)	
D.	Number and Capacity of Sewage Lift Stations	
E.	Sewage Collection System:	
	Lineal Feet of Collector Lines, by size 6" 8"	-
	10" 12", Larger	

F. Conditions of Existing System: Briefly describe the conditions and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

III. FACILITY CHARACTERISTICS OF EXISTING WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

The District operates its own 2.4 MGD capacity WTP. Currently the average production <u>on</u> <u>rict</u>

	of the WTP is 1.3 MGD. The District currently purchases water from the City of Grays
	and sells water to Big Sandy Water District, City of Vanceburg, Sandy Hook Water District
	and City of Olive Hill.
	If the applicant purchases water:
	Seller(s):
	1. City of Grayson
	Price/1,000 gallons:
	1. <u>\$4.20</u>
	Present Estimated Market Value of Existing System: \$20,947,176.00
В.	Water Storage:
	Type: Ground Storage Tank $\underline{}$ Elevated Tank $\underline{}$
	Standpipe $\sqrt{}$ Other
	Number of Storage Structures13
	Total Storage Volume Capacity 2,074,000 Gallons
	Date Storage Tank(s) Constructed 1985 to 2015
C.	Water Distribution System:
	Pipe Material PVC, Cast Iron
	Lineal Feet of Pipe: 2,400,000 LF of 2, 3, 4, 6, 8, 10 and 12 inch pipe
	All pipe footage is an estimate only.
	Date(s) Water Lines Constructed 1985 - present
	Number and Capacity of Pump Station(s) Eight (8) pump stations ranging from
	10gpm to 350 gpm
D	Condition of Existing Water System:

D. Condition of Existing Water System:

Briefly describe the condition and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

The District currently has a high water loss which can be partly attributable to the poor condition of its customer service lines. A large portion of the service lines are comprised of polypropylene pipe which has become brittle and leads to many breaks and leaks. The water treatment plant was constructed in 2002 and upgraded in 2012. It is in good condition and is adequate for the foreseeable future. The system's storage tank and pump stations are in good condition.

E.	Percentage of	of Water Lo	oss Existing	System	60%	

IV. <u>EXISTING LONG-TERM INDEBTEDNESS</u>

A. List of Bonds and Notes:

DATE OF	BOND	PR	RINCIPAL	PAYMENT	BONE	TYPE	AMOUNT ON DEPOSIT
ISSUE	HOLDER	В	ALANCE	DATE	WATER	/SEWER	IN RESERVE ACCOUNT
1989	RD	\$	82,000	June/Dec	100%		
1992	RD	\$	190,500	June/Dec	100%		
1994-A	RD	\$	264,000	June/Dec	100%		
1994-B	RD	\$	116,500	June/Dec	100%		
1995-A	RD	\$	275,000	June/Dec	100%		
1995-B	RD	\$	62,500	June/Dec	100%		
2000-A	RD	\$	676,000	June/Dec	100%		\$278,491 (per 2019
2000-B	RD	\$	318,000	June/Dec	100%		audit, this fund should
2001-A	RD	\$	646,000	June/Dec	100%		be at \$808,680/it is
2001-B	RD	\$	45,600	June/Dec	100%		underfunded by
2004-A	RD	\$ 2	1,101,500	June/Dec	100%		\$541,469
2004-B	RD	\$	451,000	June/Dec	100%		
2008-C	RD	\$	285,000	June/Dec	100%		
2011-A	RD	\$ 2	1,202,000	June/Dec	100%		
2011-B	RD	\$ 1	1,022,500	June/Dec	100%		
2015	RD	\$	192,000	June/Dec	100%		
2019	RD	\$ 2	2,490,000	June/Dec	100%		

B. Principal and Interest Payments: (Begin with Next Fiscal Year Payment)

						1					
		P	AYMENT Y	EAF	R: 2021	PΑ	YMENT	YEA	R: 2022	PAYMENT YEAR: 2023	
DATE OF	BOND	PR	INCIPAL	IN	ITEREST	PR	INCIPAL	IN	TEREST	PRINCIPAL	INTEREST
ISSUE	HOLDER	P	AYMENT	РΑ	YMENT	PΑ	YMENT	РА	YMENT	PAYMENT	PAYMENT
1989	RD	\$	7,800	\$	3,540	\$	8,200	\$	3,140		
1992	RD	\$	12,700	\$	8,668	\$	13,300	\$	8,018		
1994-A	RD	\$	13,000	\$	10,778	\$	13,600	\$	10,179		
1994-B	RD	\$	5,900	\$	4,894	\$	6,200	\$	4,622		
1995-A	RD	\$	12,100	\$	12,071	\$	12,600	\$	11,516		
1995-B	RD	\$	2,700	\$	2,711	\$	2,800	\$	2,588		
2000-A	RD	\$	11,000	\$	15,282	\$	11,500	\$	14,776		
2000-B	RD	\$	23,000	\$	32,378	\$	24,000	\$	31,320		
2001-A	RD										
2001-B	RD	\$	1,300	\$	1,964	\$	1,400	\$	1,904		
2004-A	RD	\$	26,000	\$	46,856	\$	28,000	\$	45,675		
2004-B	RD	\$	10,800	\$	19,167	\$	11,300	\$	18,683		
2008-C	RD										
2011-A	RD										
2011-B	RD										
2015	RD										
2019	RD										

V. **EXISTING SHORT-TERM INDEBTEDNESS**

A. List of All Short Term Debts: (Do Not Show Any Debt Listed in Paragraph IV Above)

	DATE OF ISSUE	PRINCIPAL	PURPOSE	PAYMENT	PRINCIPAL & INTEREST	DATE TO BE
LENDOR OR LESSOR	(MONTH & YEAR)	BALANCE	(WATER AND/OR SEWER)	DATE	PAYMENT (P&I)	PAID IN FULL
KADD Lease	Apr-05	\$ 75,000	Water	May-20	\$ 5,000	5/1/2025
Corps of Engineers	May-84	\$ 66,351	Water		\$ 2,133	

VI. LAND AND RIGHTS - EXISTING SYSTEM(S)

Number of Treatment Plant Sites:	Water	1	Sewer_	<u>N/A</u>
Number of Storage Tank Sites	Water	13	Sewer	N/A

	Number of Pump Stations:	Water	8	Sewer	N/A
	Total Acreage:	Water	20 Acres_	Sewer	N/A Acres
	Purchase Price:	Water <u>\$</u>		Sewer <u>\$</u>	N/A
VII.	NUMBER OF EXISTING L	JSERS			
				Water	Sewer
	Residential (In Town) *				<u> </u>
	Residential (Out of Town) *			4,079	<u> </u>
	Non-Residential (In Town)				<u>-</u> _
	Non-Residential (Out of Tow	n)		10	<u>-</u>
	Total			4,089	<u>.</u>
	Number to Total Potential Us	sers Living in the S	ervice Area	250	
VIII.	CURRENT WATER AND SWATER METER CONNEC				<u> </u>
	Meter Size Se	ervice Connection	n Fee		
	5/8" x 3/4"	\$7	00.00		
	3/4"	\$8	00.00		
	1"		00.00		
	1 1/2"	. ,	50.00		
	2"		00.00		
	3"		00.00		
	Larger than 3"	Actua	l Cost		
IX.	SEWER RATES - EXISTI	NG SYSTEM	٨	//A	
	Percentage of Water Bill _	% Mi	nimum Charg	e \$	
	Other: (If Charge Not Base				
	Date This Rate Went Into E	ffect			

X. <u>WATER RATES - EXISTING SYSTEM</u>

Existing Rate Schedule:

5/8" x 3/4"	Meter			
		college	¢ 10.33	N diminary ma Dill
First		gallons	\$ 19.32	Minimum Bill
Next		gallons	14.40	per 1,000 gallons
Next		gallons	12.40	per 1,000 gallons
Next		gallons		per 1,000 gallons
Next	20,000	gallons	7.90	per 1,000 gallons
All Over	40,000	gallons	6.30	per 1,000 gallons
3/4" Mete	<u>r</u>			
First	5,000	gallons	\$ 76.92	Minimum Bill
Next	5,000	gallons	12.40	per 1,000 gallons
Next		gallons	11.10	per 1,000 gallons
Next		gallons	7.90	per 1,000 gallons
All Over		gallons	6.30	per 1,000 gallons
7111 0 7 01	40,000	ganons	0.30	per 1,000 ganons
1" Meter				
First		gallons	\$ 138.92	Minimum Bill
Next	10,000	gallons	11.10	per 1,000 gallons
Next	20,000	gallons	7.90	per 1,000 gallons
All Over	40,000	gallons	6.30	per 1,000 gallons
1 1/2" Met	er			
First		gallons	\$ 328.92	Minimum Bill
Next		gallons	7.90	per 1,000 gallons
All Over		-		per 1,000 gallons
All Over	40,000	gallons	6.30	per 1,000 ganons
2" Meter				
First	50,000	gallons	\$ 470.92	Minimum Bill
All Over	50,000	gallons	6.30	per 1,000 gallons
3" Meter				
First	100,000	gallons	\$ 785.92	Minimum Bill
All Over	100,000		6.30	per 1,000 gallons
4" Meter				
First	200,000	gallons	\$1,415.92	Minimum Bill
All Over	200,000	gallons	6.30	per 1,000 gallons
6" Meter				
First	500,000	gallons	\$3,305,92	Minimum Bill
All Over	500,000		6.30	per 1,000 gallons
Wholesale				
Big Sandy \	Water Dist	rict	\$ 4.30	per 1,000 gallons
City of Gra	yson		\$ 4.30	per 1,000 gallons
Cit Ci			A 222	
City of Var	iceburg		\$ 3.82	per 1,000 gallons
		nergency Situations		
City of Oliv	e Hill		\$ 4.30	per 1,000 gallons
Kentucky [Departmer	nt of Parks		
(Golf Cour	•		\$ 4.63	per 1,000 galloons
, Son Cour	Je Gilly)		Ş 4.03	per 1,000 ganoons
Sandy Hoo	k Water D	strict		
First	50,000	gallons	\$ 145.15	Minimum Bill
All Over		gallons	2.90	per 1,000 gallons

XI. ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD

For Period <u>01/01/2019</u> to <u>12/31/2019</u>.

				Resi	dential		Co	mmercial
MONTHLY	WATER	ISAGE			Usage		No. of	Usage
IVIOITII IEI	VV/(1210	<u> </u>	Average	Users	1,000	Average		1,000
			Average		1,000	rtvorago		1,000
0 - 1	,000 Gal.		300	539	162			
	2,000 Gal.		1,119	645	722			
	3,000 Gal.		2,249	698	1,570			
	,000 Gal. I,000 Gal.		3,100	752	2,331			
	5,000 Gal.		4,300	539	2,318			
	5,000 Gal.		5,250	341	1,790			
	7,000 Gal.		6,400	245	1,568			
	3,000 Gal.		7,350	120	882			
	,000 Gal.		8,100	83	672			
9,001 - 10			9,400	39	367			
10,001 - 11			10,300	44	453			
11,001 - 12			11,250	21	236			
12,001 - 13	3,000 Gal.		12,200	13	159			
13,001 - 14	I,000 Gal.		13,500					
14,001 - 15	,000 Gal.		14,500					
15,001 - 16	6,000 Gal.		15,500					
16,001 - 17	,000 Gal.		16,500					
17,001 - 18	3,000 Gal.		17,500					
18,001 - 19			18,500					
19,001 - 20			19,500					
	1 & Over		,					
			Subtotal	4079	13,229		0	0
			Gustotai	1070	10,220			
Average Mo	nthly Usa	ae			3,243			#DIV/0!
gee	,				0,2.0			
1 inch			128,572				6	771
1 IIICII			120,372				0	771
2 inch			21,682				2	42
2 inch			21,002					43
O : l-			404.070					200
3 inch			104,679				2	209
			10 -00					
4 inch			42,762				1	43
6 inch			1,118,000				1	1,118
Re-sale								
Vanceburg			259,350				1	259
Big Sandy			259,350				1	259
Grayson			155,320				1	155
			Totals	4079	13,229	1	15	2,859
			Total Wate	r Purcha	sed and/o	or Produce	ed	629,580,000
			Total Wate	r Sold (C	(anolle			193,056,000

XV. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

A.	. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.									
	Water Supply described in Section	on III-A	ı.							
В.	Water Storage:									
	Type: Ground Storage Tank		Elevated Tank <u>1</u>							
	Standpipe	4	Other							
	Number of Storage Structures _		5_							
	Total Storage Volume Capacity		988,000							
C.	Lineal Feet of Pipe: 2,400,000 L	F of 2,	Cast Iron 3, 4, 6, 8, 10 and 12 inch pipe							
	All pipe footage is an estimate of	•	4005							
			1985 - present							
	Number and Capacity of Pump 8	station((s) Eight (8) pump stations ranging from							
			10gpm to 350 gpm							
<u>LA</u>	ND AND RIGHTS - PROPOSE	ED WA	ATER SYSTEM							
Nu	mber of Treatment Plant Sites		0							
Nu	mber of Pump Sites		0							
Nu	mber of Other Sites		0							
То	tal Acreage		0 A	cres						
Pu	rchase Price	\$	0							

XVI.

XIX. NUMBER OF NEW WATER USERS

Residential (In Town) *	0
Residential (Out of Town) *	0
Non-Residential (In Town)	0
Non-Residential (Out of Town)	0
Total	0
Number to Total Potential Users Living in the Service Area	0

*Note:

Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural

residences.

PROPOSED WATER CONNECTION FEES FOR EACH SIZE WATER METER XX. **CONNECTION:**

Meter Size	Service Connection Fee
5/8" x 3/4"	\$700.00
3/4"	\$800.00
1"	\$1,100.00
1 1/2"	\$1,250.00
2"	\$1,500.00
3"	\$2,100.00
Larger than 3"	Actual Cost

XXII. WATER RATES - PROPOSED

A. Proposed Rate Schedule without RUS Grant:

	PROF	POSED RATES		
5/8" x 3/4				
First	1.000	gallons	\$ 21.64	Minimum Bill
Next		gallons		per 1,000 gallons
Next		gallons		per 1,000 gallons
Next		gallons	12.43	per 1,000 gallons
Next		gallons	8.85	per 1,000 gallons
		gallons		per 1,000 gallons
All Over	40,000	galions	7.06	per 1,000 galloris
3/4" Mete	<u>er</u>			
First	5,000	gallons	\$ 86.15	Minimum Bill
Next	5.000	gallons	13.89	per 1,000 gallons
Next		gallons		
Next		gallons	8.85	per 1,000 gallons
All Over		gallons	7.06	per 1,000 gallons
All Ovel	40,000	ganoris	7.00	per 1,000 galloris
1" Meter				
First	10,000	gallons	\$ 155.59	Minimum Bill
Next		gallons		per 1,000 gallons
Next		gallons	8.85	per 1,000 gallons
All Over		gallons	7.06	per 1,000 gallons
🔾 VOI	13,000	345110	7.00	, , , , , , , , , , , , , , , , , , ,
1 1/2" Me	<u>ter</u>			
First	30,000	gallons	\$ 368.39	Minimum Bill
Next		gallons	8.85	per 1,000 gallons
All Over		gallons	7.06	per 1,000 gallons
2" Meter			A	
First		gallons	\$ 527.43	Minimum Bill
All Over	50,000	gallons	7.06	per 1,000 gallons
3" Meter				
First	100,000	collons	Ф 000 00	Minimum Bill
		_	· ·	
All Over	100,000	gailons	7.06	per 1,000 gallons
4" Meter				
First	200,000	gallons	\$1,585.83	Minimum Bill
All Over	200,000		7.06	per 1,000 gallons
All Over	200,000	ganons	7.00	per 1,000 ganons
6" Meter				
First	500,000	gallons	\$3,702.63	Minimum Bill
All Over	500,000		7.06	per 1,000 gallons
Wholesale				
Big Sandy	Water Dist	rict	\$ 4.30	per 1,000 gallons
City of Co-			. 4.00	nor 1 000 !!
City of Gra	yson		\$ 4.30	per 1,000 gallons
City of Var	nceburg		\$ 3.82	per 1,000 gallons
				Ĭ
		mergency Situations		
City of Oliv	e Hill		\$ 4.30	per 1,000 gallons
Kentucky I		of Parks		
(Golf Cours		OI I ding	\$ 4.63	per 1,000 galloons
(Jon Cours	oc Orny)		φ 4.03	per 1,000 gail00/18
Sandv Hoo	k Water Di	strict		
First		gallons	\$ 145.15	Minimum Bill
		gallons	2.90	per 1,000 gallons

B. Recommended Rate Schedule with RUS Grant:

- /011 - 0 / 411 - 4 .					
5/8" x 3/4" Mete	_				
First		gallons	· · · · · · · · · · · · · · · · · · ·	Minimum Bill	
Next		gallons	15.26		
Next		gallons	13.14	1 / 0	
Next		gallons	11.77	per 1,000 gallons	
Next		gallons	8.37	per 1,000 gallons	
All Over	40,000	gallons	6.68	per 1,000 gallons	
3/4" Meter					
First	5,000	gallons	\$ 81.54	Minimum Bill	
Next	5,000	gallons	13.14	per 1,000 gallons	
Next	10,000	gallons	11.77		
Next		gallons	8.37	per 1,000 gallons	
All Over	40,000	gallons	6.68	per 1,000 gallons	
1" Meter					
First	10,000	gallons	\$ 147.26	Minimum Bill	
Next		gallons	11.77		
Next		gallons	8.37	1 / 0	
All Over		gallons	6.68	per 1,000 gallons	
1 1/2" Meter					
First	30 000	gallons	\$ 348.66	Minimum Bill	
Next		gallons	8.37	per 1,000 gallons	
All Over		gallons	6.68	per 1,000 gallons	
211 84 - 4 - 11					
2" Meter					
First		gallons	\$ 499.18		
All Over	50,000	gallons	6.68	per 1,000 gallons	
3" Meter					
First	100,000		\$ 833.08	Minimum Bill	
All Over	100,000	gallons	6.68	per 1,000 gallons	
4" Meter					
First	200,000	gallons	\$1,500.88	Minimum Bill	
All Over	200,000		6.68	per 1,000 gallons	
6" Meter					
First	500,000	nallons	\$3.504.39	Minimum Bill	
All Over	500,000		6.68		
Wholesale Rate					
Big Sandy Water I	District		\$ 4.56	per 1,000 gallons	
Dig Sariuy Water I	אסוווטני		φ 4.56		
City of Grayson			\$ 4.56	per 1,000 gallons	
City of Vanceburg			\$ 4.05	per 1,000 gallons	
Wholosele Bets	n Emeraci	ou Cituations			
Wholesale Rate i City of Olive Hill	ıı cınerger	icy Situations	\$ 4.56	per 1,000 gallons	
			,90	, , , , , , , , , , , , , , , , , ,	
Kentucky Departm		(S			
(Golf Course Only)			\$ 4.91	per 1,000 galloons	
Sandy Hook Wate	r District				
First		gallons	\$ 153.86	Minimum Bill	
All Over		gallons	3.07	per 1,000 gallons	

XXV. FORECAST O	F WAT	TER USAGE	- 11	NCOME -	EXISTING	SYSTEM						
MONTHLY WATER L	JSAGI	<u>=</u>	۸ ۱	/EDACE	***********	Residential			**************	Comme	cial	
		A)/EDACE	A	/ERAGE	Nin at	Llagge	l ,	اممسم	k). ⇔i	Lloone	١.	
		<u>AVERAGE</u>		RATE	No. of	Usage		Income	No. of	Usage	ll ll	ncome
					Users	1,000			Users	1,000		
0 - 1,000	റ ദ്രച	300	\$	20.48	539	162	\$	11,039	0	0	\$	
1,001 - 2,000		1,119	\$	22.30	645	722	\$	14,381	0	0	\$	
2,001 - 3,000		2,249	\$	39.54	698	1,570		27,599	0	0	\$	
3,001 - 4,000		3,100	\$	52.53	752	2,331	\$	39,500	U	U	φ	
4,001 - 5,000		4,300	\$	70.84	539	2,318	\$	38,182				
5,001 - 6,000		5,250	\$	85.14	341	1,790	\$	29,033				
6,001 - 7,000		6,400	\$	101.70	245	1,7568	\$	24,917				
7,001 - 8,000		7,350	\$	115.38	120	882	\$	13,846				
8,001 - 9,000		8,100	\$	126.18	83	672	\$	10,473				
9,001 - 10,000		9,400	\$	144.90	39	367	\$	5,651				
10,001 - 11,000		10,300	\$	150.98	44	453	\$	6,643				
11,001 - 12,000		11,250	\$	162.76	21	236	\$	3,418				
12,001 - 13,000		12,200	\$	174.54	13	159	\$	2,269				
13,001 - 14,000		0	Ψ	174.04	10	139	Ψ	2,203				
14,001 - 15,000		0										
15,001 - 16,000		0										
16,001 - 17,000		0										
17,001 - 18,000		0										
18,001 - 19,000		0										
19,001 - 19,000		0										
20,001 &		0										
20,001 &	Ovei	0										
			S	ubtotal	4079	13,229	.5	3226,949	0	0		\$
Average Monthly R	Rate					. 0,220		,,,,,,,				_
Average Monthly Us												
			To	otals	4079	13,229		\$226,949	0	0		;
1 inch		128,572	\$	203.18					6	771	\$	1,21
2 inch		21,682	\$	499.18					2	43	\$	99
3 inch		104,679	\$	1,050.60					2	209	\$	2,10
4 inch		42,762	\$	1,500.88					1	43	\$	1,50
6 inch		1,118,000	\$	3,504.28					1	1,118	\$	3,50
Resale Vanceburg		259,350							1	259		1,05
Big Sandy		259,350							1	259		1,18
Grayson		155,320							1	155		70
		,0							·			
		Sub-Total			4,079	13,229	Ş	\$226,949	15	2,859	\$	12,26
		Totals			4,079	13,229	\$	226,949	15	2,859	\$	12,26
					.,0.0		Ψ_			_,555	Ψ	,-

 	PERATING		(======================================			Year Endi	ng 20	019
A.	Operating	Income:						
	Water Sale	es					\$	2,687,92
	Disconnec	t/Reconnec	ct/Late Cha	rge Fees/C	Customer Ta	ар	\$	3,68
	Other (Des	cribe)						
		Less Allov	vances and	Deduction	S			
	Total Oper	ating Incon	ne				\$	2,691,60
_								
B.			nance Exp					
			stem of Ac			National		
	Associati	on of Regu	latory Utility	/ Commiss	sioners)			
	0							
	Operation		Talanhana				•	222.25
		Misc. Exp	Telephone				\$	333,35
			erise ier Than Inc	omo			\$	4,46 89,82
		Vehicle Ex		ome			\$	35,33
		Testing Ex	•				\$	26,15
	Maintenan						Ψ	20,13
	ivianiterian		& Supplies				\$	314,93
	Customer						Ψ	014,00
	Customer	Bad Debt					\$	49,36
	Administra		eneral Expe	nse			Ψ	10,00
	, tarring tre	Salaries &					\$	667,29
		Employee					\$	544,65
		Office Sup					\$	32,63
		Accountin					\$	31,67
		Insurance					\$	45,95
								,
	Total Oper	ating Expe	nses				\$	2,175,64
	Net Operat	ing Income	9				\$	515,95
C.	Non-Opera	ting Incom	e:					
	Interest Inc						\$	83
	Interest Ex	pense					\$	-
	Total Non-	Operating I	ncome				\$	83
							_	
D.	Net Incom	9					\$	516,78
_	D.L. D.							
E.	Debt Repa	yment:						
	DLIC Intore						Φ.	242.25
	RUS Intere						\$	243,35
	RUS Princ						\$	242,68
	Non-RUS I						\$	6,50
	NOH-RUS I	Ппсіраі					Ф	13,50
	Total Dobt	Donovmor	\ +				\$	506.02
	Total Debt	пераушег	IL .				Φ	506,03
F.	Balance A	ailable for	Coverage				\$	10,75
1 .	Short Lived		Juverage				Ψ	10,75
	Debt Rese							
	Existing D		Δ					
	LAISTING D	ODE LACOCIA						
	Balance A	vailable					\$	10,75
-	Coverage F			(21)	-	-	Ψ_	1.0

^^^ V	I. PROPOSED			I - (WAIE	RSYSTEM			
	(1st Full Y	ear of Oper	ation)			Year Ending	2022	
١.	Operating	Income:						
	Water Sale	es				9	2,87	70,568
	Disconnec	t/Reconnec	t/Late Cha	rge Fees		9)	5,000
	Other (Des		customer					
	00. (200		0 00 0 0 11 0 1					
		Lace Allow	vances and	Deductions				
		Less Allov	varices and	Deductions				
	Tatal On an					9	- 0.0-	75 500
	Total Oper	ating Incom	ie			1	2,87	75,568
3.			nance Exp					
				counts pres		National		
	Associati	ion of Regu	latory Utility	y Commissi	ioners)			
	Operation	Expense						
			Telephone			9	34	13,456
		Misc. Exp	•			9		4,597
			er Than Inc	ome		9		92,545
		Vehicle Ex				9		36,403
		Testing Ex						
	N.4 - 1 - 1) 2	26,952
	Maintenan	ce Expens						
			& Supplies				32	24,477
	Customer	Accounts E						
		Bad Debt	Expense			9	5 5	50,859
	Administra	tive and Ge	eneral Expe	nse				
		Salaries &	Wages			9	68	37,516
		Employee				9		31,161
		Office Sup				9		33,619
		Accounting				9		32,636
			g & Legai			9		
		Insurance				1	, 4	17,352
						-		
	Total Oper	ating Expe	nses				2,24	11,570
	Net Opera	ting Income	9			9	63	33,998
D .	Non-Opera	ting Incom	e:					
	Interest Inc	come				9		1,000
	Interest Ex					9		-,000
	iiitoroot Ex	Сропос				4		
	T ()))							4 000
	Total Non-	Operating I	ncome)	1,000
D	Net Incom	е				9	63	34,998
≣.	Debt Repa	yment:						
	RUS Intere	est				9	30	09,646
	RUS Princ					9		17,200
	Non-RUS I					9		4,097
	Non-RUS I					9		13,340
	I SOUL-LOS I	ιποιραι				1	,	. 0, 040
	Tital Dili	D = 11 -						44.000
	rotal Debt	Repaymen	IT				64	14,283
₹	Balance A	vailable for	Coverage					(9,285
	Short Lived	d Assets						-
	Debt Rese	rve				9		6,700
	Balance A	vailahle Vailahle				9	. /*	15,985
	Coverage F			(3:		4	. (0.99

XV. <u>ESTIMATED PROJECT COST – WATER</u>

Development	\$ 3,932,653
Land and Rights	
Legal	30,000
Engineering	369,000
Interest	30,000
Contingencies	250,847
Initial Operating and Maintenance	0
Other (CDBG Admin)	50,000
TOTAL	\$ 4,662,500

XXXVI. PROPOSED PROJECT FUNDING

Applicant - User Connection Fees	\$0
Other Applicant Contribution	0
RUS Loan	1,906,000
RUS Grant	816,000
ARC Grant (If applicable)	500,000
CDBG (If applicable)	1,000,000
KIA Cleaner Water Grant	440,500
Other (Specify)	0
TOTAL	\$ 4,662,500

F	:	Water System I Summary Adde . 40 year Payb		ith Grapt	rev. 11_23_22
Fur			ack Schedule w ear Ending in 2		
Total Project Cost rev.	That I car of	Operation - 1	car Ending in 2	022	\$4,662,50
Proposed Funding					
CDBG					\$1,000,00
ARC Grant Funds Commit					\$500,00
RD Grant Funds Committe				\$ 816,000	
Proposed Bond Amount -				\$1,906,000	#2.722.00
Total RD Proposed Bond . KIA Cleaner Water Grant					\$2,722,00 \$440,50
KIA Cleaner Water Grant	- Commuted				\$440,50
Proposed Debt Service					
RD Loan Annual Debt Ser	vice (Original Comm	itted)			\$62,30
40 years @	1.375%				
RD Loan Debt Service Co		ual Debt Service)			\$6,23
					, , , ,
			Total New Project	Debt Service	\$68,53
Additional Expenses & A		ervice			
Estimated Annual O & M I	Increase				\$65,92
Short-Lived Assets					\$10,00
Debt Reserve					\$6,60
				+	
	<u>Tota</u>	l Additional Exper	nses & Anticipated .	<u>Debt Service</u>	\$82,52
	137 5 : = :		112		
Total Annual Increase (Tot					\$151,05
Balance Available for Cove	erage (For Planned &	& Ongoing Immedia	te Projects)	-	\$10,75
		Total Addition	anal Annual Bayan	uro Dominod	\$140.30
		10tai Additi	onal Annual Reven	ue Kequireu	\$140,30
Total Additional Annua	I Revenue Required				\$140,303
Total 2019 Billed Water				÷	
Total 2015 Balled Wall	Tre vende		Percentage R		6.00%
		2019 Existing	D 1D 4		
	In Gallons	Rates	Proposed Rates		
	5/8" x 3/4" Meter				
	First 1,000	\$19.32	\$20.48		
	Next 4,000	\$14.40	\$15.26		
	Next 5,000	\$12.40	\$13.14		
	Next 10,000	\$11.10	\$11.77		
	Next 20,000	\$7.90	\$8.37		
	All Over 40,000	\$6.30	\$6.68		
	3/4" Meter				
	First 5,000	\$76.92	\$81.54		
	Next 5,000	\$12.40	\$13.14		
	Next 10,000	\$11.10	\$11.77		
	Next 20,000	\$7.90	\$8.37		
	All Over 40,000	\$6.30	\$6.68		
	1" Meter	0120.02			
	First 10,000	\$138.92	\$147.26		
	Next 10,000	\$11.10	\$11.77		
	Next 20,000 All Over 40,000	\$7.90 \$6.30	\$8.37 \$6.68		
	1 1/2" Meter	\$6.30	\$0.08		
	First 30,000	\$328.92	\$348.66		
	Next 10.000	\$328.92	\$8.37		
	All Over 40,000	\$6.30	\$6.68		
	2" Meter	Ψ0.50	φυ.υυ		
	First 50,000	\$470.92	\$499.18		
	All Over 50,000	\$6.30	\$6.68		
	3" Meter		,		
	First 100,000	\$785.92	\$833.08		
	All Over 100,000	\$6.30	\$6.68		
	4" Meter				
	First 200,000	\$1,415.92	\$1,500.88		
	All Over 200,000	\$6.30	\$6.68		
	6" Meter				
	First 500,000	\$3,305.92	\$3,504.28		
	All Over 500,000	\$6.30	\$6.68		
	Wholesale Rate				
	Big Sandy WD	\$4.30 per 1,000	\$4.56 per 1,000		
	City of Grayson	\$4.30 per 1,000	\$4.56 per 1,000		
			\$4.05 per 1,000		
	City of Vanceburg		ations		
	Wholesale Rate i	n Emergency Situ			
	Wholesale Rate i City of Olive Hill	s4.30 per 1,000	\$4.56 per 1,000		
	Wholesale Rate is City of Olive Hill Ky Dept. of	\$4.30 per 1,000	\$4.56 per 1,000		
	Wholesale Rate is City of Olive Hill Ky Dept. of Parks (Golf				
	Wholesale Rate i City of Olive Hill Ky Dept. of Parks (Golf Course Only)	\$4.30 per 1,000	\$4.56 per 1,000		
	Wholesale Rate is City of Olive Hill Ky Dept. of Parks (Golf	\$4.30 per 1,000	\$4.56 per 1,000		

RRWD Water System Improvements rev. 11 23 22 **Summary Addendum** Funding Option 2 - 40 year Payback Schedule with no Grant First Year of Operation - Year Ending in 2022 Total Project Cost \$4,662,500 Proposed Funding CDBG \$1,000,000 ARC Grant Funds Committed \$500,000 \$1,906,000 Proposed Bond Amount - Committed Proposed Bond Amount - Additional \$816,000 Total RD Proposed Bond Amount \$2,722,000 KIA Cleaner Water Grant - Committed \$440,500 Proposed Debt Service RD Loan Annual Debt Service (Committed) \$62,270 40 years @ 1.375% RD Loan Debt Service Coverage (10% of Annual Debt Service) \$6.230 RD Loan Annual Debt Service (Additional) \$30,490 40 years @ 2.125% RD Loan Debt Service Coverage (10% of Annual Debt Service) \$3,050 Total New Project Debt Service \$102,040 Additional Expenses & Anticipated Debt Service Estimated Annual O & M Increase \$65,924 Short-Lived Assets \$10,000 Debt Reserve \$9,300 Total Additional Expenses & Anticipated Debt Service \$85,224 Total Annual Increase (Total New Project Debt Service + Total Additional Expenses) \$187,264 Balance Available for Coverage (For Planned & Ongoing Immediate Projects) \$10,751 Total Additional Annual Revenue Required \$176,513 Total Additional Annual Revenue Required \$176,513 Total 2019 Billed Water Revenue \$2,691,600 Percentage Rate Increase 7.00% 2019 Existing Proposed In Gallons Rates Rates 5/8" x 3/4" Meter First 1,000 \$19.32 \$20.67 Next 4,000 \$14.40 \$15.41 Next 5,000 \$12.40 \$13.27 Next 10,000 \$11.10 \$11.88 Next 20,000 \$7.90 \$8.45 All Over 40,000 \$6.30 \$6.74 3/4" Meter First 5,000 \$76.92 \$82.30 Next 5,000 \$12.40 \$13.27 \$11.88 Next 10,000 \$11.10 \$7.90 \$8.45 Next 20,000 All Over 40,000 \$6.74 \$6.30 1'' Meter First 10,000 \$138.92 \$148.64 \$11.10 Next 10,000 \$11.88 Next 20,000 \$8.45 \$6.30 All Over 40,000 \$6.74 1 1/2" Meter First 30,000 \$328.92 \$351.94 Next 10,000 \$7.90 \$8.45 All Over 40,000 \$6.30 \$6.74 2'' Meter \$503.88 First 50,000 \$470.92 All Over 50,000 \$6.30 \$6.74 3" Meter First 100,000 \$785.92 \$840.93 All Over 100,000 \$6.30 \$6.74 4'' Meter First 200,000 \$1,415.92 \$1,515,03 All Over 200,000 \$6.30 \$6.74 6" Meter \$3,537.33 \$3,305.92 First 500,000 All Over 500,000 \$6.30 \$6.74 Wholesale Rate \$4.30 per 1,000 **\$4.64 per 1,000** Big Sandy WD City of Grayson \$4.30 per 1,000 **\$4.64 per 1,000** City of Vanceburg \$3.82 per 1,000 **\$4.13 per 1,000** Wholesale Rate in Emergency Situations City of Olive Hill \$4.30 per 1,000 **\$4.64 per 1,000** Ky Dept. of Parks (Golf \$4.63 per 1,000 **\$5.00 per 1,000** Course Only) Sandy Hook WD First 50,000 \$145.15 \$156.72 All Over 50,000 \$2.90 \$3.13

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