### LEVEE ROAD WATER ASSOCIATION

### WATER SYSTEM IMPROVEMENTS

# SUMMARY ADDENDUM

TO
PRELIMINARY ENGINEERING REPORT



### LEVEE ROAD WATER ASSOCIATION

4969 Levee Road

P.O. Box 770

Mt. Sterling, KY 40353

**March 2019** 



#### **SUMMARY ADDENDUM**

TO

#### PRELIMINARY ENGINEERING REPORT

DATED April 2019
FOR
<u>Levee Road Water Association – Water System Improvements</u> (Name of Project)
APPLICANT CONTACT PERSON Arthur Gibson, Chairman
APPLICANT PHONE NUMBER <u>(859) 498-6980</u>
APPLICANT TAX IDENTIFICATION NUMBER (TIN) 61-0736993

#### ITEMS IN BOLD ITALIC PRINT ARE APPLICABLE TO SEWER SYSTEMS.

In order to avoid unnecessary delays in application processing, the applicant and its consulting engineer should prepare a summary of the preliminary report in accordance with this Guide.

Please complete the applicable sections of the Summary Addendum. *Please note, if water and sewer revenue will both be taken as security for the loan, all user information and characteristics of both utility systems will be needed even though the project will benefit only one utility.* 

Feasibility reviews and grant determinations may be processed more accurately and more rapidly if the Summary/Addendum is submitted simultaneously with the preliminary engineering report, or as soon thereafter as possible.

#### I. GENERAL

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 the transmission mains that serve as the backbone of the LRWA system. The majority of these transmission mains are old and in disrepair causing continuous leaking. The mains are along KY 11 (Levee Road) and under various creek crossings. A second segment of this project is rehabilitation of the Mckee Water Storage Tank, Kiddville PRV station, and Cream Alley PRV Station. The rehabilitation of these facilities will provide improved service to all of the existing customers in the area. The project will also include a connection to the City of Jeffersonville water system in order to provide an emergency connection in the event the City of Mt. Sterling is unable to provide water. Lastly the project will include various valve replacements, insertions, hydrant installations, and installation of a Chlorine Booster pump station within the system in order to provide adequate flushing and maintain water quality.

All of the individual parts combined as part of this project will provide improved water quality to the Levee road water Association customers and improve the reliability of the system.

This project should also minimize line breaks, leakage and overall water loss, thus decreasing operational costs.

FA	CILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM	NA
<b>A.</b>	Sewage Treatment:	
<i>1</i> .	Type	_
2.	Method of Sludge Disposal	
<i>3</i> .	Cost per 1,000 gallons if sewage treatment is contracted:  \$	
4.	Date Constructed	
В.	Treatment Capacity of Sewage Treatment Plant	_
С.	Type of Sewage Collector System (Describe)	

D. Number and Capacity of Sewage Lift Stations

<b>E</b> .	Sewage Collection System:	
	Lineal Feet of Collector Line	es, by size 6" 8"
	10" 12"	, Larger
	Date(s) Constructed	
F.	Conditions of Existing System	m: 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 fiv	re to ten years.
<u>FA</u>	CILITY CHARACTERISTIC	S OF EXISTING WATER SYSTEM
A.	Water Source: Describe adec	quacy of source (quality and quantity). Include an
	explanation of raw water sour	rce, raw water intake structure, treatment plant capacity,
	and current level of production	on (WTP). Also describe the adequacy of Water Purchase
	Contract if applicable.	
	The raw water source is the L	icking River and provided by the City of Mt Sterling Water
	Treatment Plant. The quantit	y and quality are adequate. The levels of turbidity are high
	but are entirely treatable.	The current WTP capacity is 4.3 MGD. The average
	production is approximately 2	2.5 MGD.
	If the applicant purchases wa	ter:
	Seller(s):	
	1. City of Mt Sterlin	g,
	Price/1,000 gallons:	
	1\$3.11	
	Present Estimated Market	Value of Existing System: \$

III.

B.	Water Storage:			
	Type: Ground Storage Tank1	_ Elevated Tank	<u> </u>	1
	Standpipe	Other		
	Number of Storage Structures	2		
	Total Storage Volume Capacity	170,000 Gallo	ns	
	Date Storage Tank(s) Constructed	1980s, 2000s		
C.	Water Distribution System:			
	Pipe Material PVC.	1		
	Lineal Feet of Pipe: 2" & 3" Diameter	74,825	4"	80,221
	6"43,77	5	8"	10,358
D.	All pipe footage is an estimate only.  Date(s) Water Lines Constructed  Number and Capacity of Pump Station(s)  Condition of Existing Water System:  Briefly describe the condition and suitably the applicant. Include any major renyears.  The Levee Road Water Association's renovations/upgrades over the next five undersized sections of the system and prethe customers.	s) N/A  polity for continuous ovation that will system is current to ten years will	ed use of be needently in continu	f facility now owned ed within five to ten fair condition. Major e to improve the older,
E.	Percentage of Water Loss Existing Systematics and Percentage of Water Loss Existence of Percentage of Water Loss Existence of Percentage of Water Loss Existence of Percentage of Percentage of Water Loss Existence of Percentage of	em <u>16%</u>		

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

#### A. List of Bonds and Notes:

Date of Issue	Bond/Note <u>Holder</u>	Principal <u>Balance</u>	Payment <u>Date</u>	Bond Type Water/Sewer*	Amount on Deposit in Reserve Account
1985 Issue	Rural Dev.	_46,556.42_	2025		6 \$4,181.89
1995 Issue	Rural Dev.	_28,975.11	2035	100_%%	\$ 6,316.11

<sup>\*</sup> If a combined issue, show attributable portion to each system.

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

		•	nent ear 21	Payment Year <b>2022</b>		Payment Year <b>2023</b>	
Date of Issue	Bond/Note <u>Holder</u>	Principal	Interest Payment	Principal	Interest Payment	Principal	Interest
20 <u>20</u> Issue							
Total		\$					

#### V. <u>EXISTING SHORT-TERM INDEBTEDNESS</u>

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

Lene	der	Date of Issue	Principal	Purpose (Water and/	Payment	Principal & Interest	Date to Be Paid
or Le	ssor	(Month & Year)	<u>Balance</u>	or Sewer)	<u>Date</u>	Payment (P&I)	In Full
VI.	LAN	ND AND RIGHTS	- EXISTIN	G SYSTEM(S)			
	Nun	nber of Treatment	Plant Sites:	Water		Sewer	
	Nun	nber of Storage Ta	nk Sites	Water	2	Sewer	
	Nun	mber of Pump Stati	ions:	Water		Sewer	
	Tota	al Acreage:		Water	2 Acres	Sewer	Acres
	Purc	chase Price:		Water \$		Sewer <u>\$</u>	
VII.	<u>NU</u>	MBER OF EXIST	ING USERS	<u>S</u>			
						Water	Sewer
	Res	idential (In Town)	*				<u>.</u>
	Resi	idential (Out of To	wn) *			846	<u>.</u>
	Non	n-Residential (In T	own)				<u>.</u>
	Non	n-Residential (Out	of Town)			11	<u>.</u>
	Tota	al				0	
	Nun	nber to Total Poter	ntial Users I	Living in the Ser	vice Area	857	
	*No	· · · · · · · · · · · · · · · · · · ·			_	less of quantity o ers serving indivi	

# VIII. $\frac{\text{CURRENT WATER AND SEWER CONNECTION FEES FOR EACH SIZE WATER}{\text{METER CONNECTION}}$

	Water Connection Fee	<u>Sewer (</u>	Connection Fee
<u>5/8" x 3/4"</u>	\$ 1,070 (Residential)	<u>\$</u>	
All Others	\$ Actual Cost	<u>\$</u>	
SEWER RATES -	EXISTING SYSTEM	N	/A
Percentage of Wate	er Bill % Mini	imum Charge	\$
Other: (If Charge	Not Based on Water Bill)		
Date This Rate We	nt Into Effect		
WATER RATES -	EXISTING SYSTEM		
WATER RATES - Existing Rate Scheen	_		
Existing Rate Scheon	_	11.45	minimum
Existing Rate Scheoling First 1,000 next 2,000	_	5.05	per 1,000 gallor
First 1,000 next 2,000 next 3,000	_	5.05 4.35	per 1,000 gallor per 1,000 gallor
first 1,000 next 2,000 next 3,000 next 19,000	_	5.05 4.35 3.60	per 1,000 gallor per 1,000 gallor per 1,000 gallor
First 1,000 next 2,000 next 3,000	_	5.05 4.35	per 1,000 gallor per 1,000 gallor per 1,000 gallor per 1,000 gallor
first 1,000 next 2,000 next 3,000 next 19,000 next 25,000	dule (2019 Rates):	5.05 4.35 3.60 3.25	per 1,000 gallor per 1,000 gallor per 1,000 gallor per 1,000 gallor per 1,000 gallor
first 1,000 next 2,000 next 3,000 next 19,000 next 25,000 Over 50,000	dule (2019 Rates):	5.05 4.35 3.60 3.25 2.95	minimum per 1,000 gallor
first 1,000 next 2,000 next 3,000 next 19,000 next 25,000 Over 50,000  Commercial Haul Individual w/ priva	dule (2019 Rates):	5.05 4.35 3.60 3.25 2.95	per 1,000 gallor per 1,000 gallor per 1,000 gallor per 1,000 gallor per 1,000 gallor

#### XII. ANALYSIS OF ACTUAL SEWER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD

For Pe	eriod January 1, 2018	to	<u>December 31, 20</u>	18.
All Meter Sizes	Monthly Sewer Usage	Average	Residential No. of Usage Users (1000)	Non-Residential No. of Usage Users (1000)

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

For Period January 1, 2018 to December 31, 2018.

All Meter Sizes	Monthly Water Usage (gallons)		Average	Resi	dential	Non-R	esidential
				No. of	Usage	No. of	Usage
			·	Users	(1000)	Users	(1000)
	0	1,000	425	131	678	5	29
	1,000	2,000	2,067	311	7718	6	101
	2,000	3,000	2,007	311	//10	U	101
	3,000	4,000					
	4,000	5,000	4,187	272	13686		
	5,000	6,000					
	6,000	7,000					
	7,000	8,000					
	8,000	9,000					
	9,000	10,000					
	10,000	11,000					
	11,000	12,000					
	12,000	13,000	9,712	126	14514		
	13,000	14,000	9,712	120	14314		
	15,000	16,000					
	16,000	17,000					
	17,000	18,000					
	18,000	19,000					
	19,000	20,000					
	20,000	25,000					
	25,000	50,000	31,778	5	1780		
	Over	50,000	159021	1	2544		
	7	Γotal		846	40,920	11	131
	Avera	ige Usage			4		0.99

Total Water Purchased and/or Produced	48,834,000	
Total Water Sold (Gallons)	41,051,000	

### XIII. FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM

N/A

<b>A.</b>	Se	wage Treatment:		
	1.	<i>Type</i>		
	2.	Method of Sludge Disposal		
	3.	• , ,	wage treatment is contracted:	
В.	Tr	eatment Capacity of Sewage	Treatment Plant	
<i>C</i> .	Ty		m (Describe)	
D.	Nu	umber and Capacity of Sewag	ge Lift Stations	
<b>E</b> .	Se	wage Collection System:		
	Lii	neal Feet of Collector Lines,	by size 6''	8"
	10	"12" <sub>_</sub>	, Larger	
<u>LA</u>	ND	AND RIGHTS - PROPOSE	ED SEWER SYSTEM	N/A
Nu	ımb	er of Treatment Plant Sites		
Nu	ımb	er of Pump Sites		
Nu	ımb	er of Other Sites		
To	tal 1	Acreage		Acres
Pu	rch	ase Price	<i>\$</i>	

XIV.

#### 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 III-A. B. Water Storage: Type: Ground Storage Tank <u>1</u> Elevated Tank <u>1</u> Standpipe Other Number of Storage Structures 2 Total Storage Volume Capacity \_\_\_\_\_\_<u>170,000</u> C. Water Distribution System: Pipe Material PVC Lineal Feet of Pipe: 2-3" Diameter\_\_\_\_\_\_ 4" \_\_\_\_\_\_ 4" \_\_\_\_\_ 6" \_\_\_\_\_\_\_ 8" \_\_\_\_\_\_<u>5,000</u> 10" \_\_\_\_\_\_ 12" \_\_\_\_\_ Number and Capacity of Pump Station(s) N/A XVI. LAND AND RIGHTS - PROPOSED WATER SYSTEM Number of Treatment Plant Sites 0 Number of Pump Sites 0Number of Other Sites \_\_\_\_1 Acres Total Acreage

**Purchase Price** 

\$ 120,000

XVII. NUMBER OF	NEW SEWER USERS	N/A
Residential (In Town)	*	
Residential (Out of To	wn) *	
Non-Residential (In To	own)	
Non-Residential (Out o	of Town)	
Total		
Number to Total Poten	tial Users Living in the Ser	rvice Area
· · · · · · · · · · · · · · · · · · ·	sification should include th	regardless of quantity of water nose meters serving individual
XVIII. PROPOSED SEWER OF CONNECTION	CONNECTION FEES FOR	EACH SIZE WATER METER N/A
Meter Size	Connection Fee	
5/8" x 3/4"	\$1,070	
1 - Inch	\$Actual Cost	
<u>1-1/2 Inch</u>	\$ Actual Cost	
<u>2 - Inch</u>	\$ Actual Cost	
<u>3 - Inch</u>	\$ Actual Cost	
<u>4 - Inch</u>	\$ Actual Cost	
<u> 5 - Inch</u>	\$ Actual Cost	

6 - Inch

\$ Actual Cost

#### 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.

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

Meter Size	Connection Fee
5/8" x 3/4"	\$ 1,070.00
<u>1 - Inch</u>	\$ Actual Cost
1-1/2 Inch	\$ Actual Cost
2 - Inch	\$ Actual Cost
<u>3 - Inch</u>	\$ Actual Cost
<u>4 - Inch</u>	\$ Actual Cost
<u>5 - Inch</u>	\$ Actual Cost
6 - Inch	\$ Actual Cost

#### XXI. <u>SEWER RATES – PROPOSED</u>

N/A

•	Proposed Rate So	chedule without RUS Grant:	
	Percentage of Wo	ater Bill % Minimun	n Charge \$
	Other: (If Charg	re Not Based on Water Bill)	
	Proposed Rate So	chedule: (Without RUS Grant)	
	First	Gallons @ \$	Minimum.
	Next	Gallons @ \$	per 1,000 Gallons
	Next	Gallons @ \$	per 1,000 Gallons
	Next	Gallons @ \$	per 1,000 Gallons
	Next	Gallons @ \$	per 1,000 Gallons
	Next	Gallons @ \$	per 1,000 Gallons
	All Over	Gallons @ \$	per 1,000 Gallons
	the applicant/eng rate with an estin remember that th	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table belower Table (A) above must be complete ate Schedule with RUS Grant:	a to recommending a proposed w. However, the preparer show
•	the applicant/eng rate with an estin remember that th Recommended R	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table belower Table (A) above must be completed ate Schedule with RUS Grant:	a to recommending a proposed w. However, the preparer shouted prior to Table (B).
•	the applicant/eng rate with an estin remember that the Recommended R Percentage of Wo	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table belower Table (A) above must be comple	to recommending a proposed w. However, the preparer shouted prior to Table (B).  The commending a proposed to recommend the prior to Table (B).
•	the applicant/eng rate with an estin remember that the Recommended R Percentage of We Other: (If Charg	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table belower Table (A) above must be completate Schedule with RUS Grant:  ater Bill % Minimun	to recommending a proposed w. However, the preparer shouted prior to Table (B).  The commending a proposed to recommend the prior to Table (B).
•	the applicant/eng rate with an estin remember that the Recommended R Percentage of We Other: (If Charg	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table below the Table (A) above must be completed ate Schedule with RUS Grant:  The contract of the Rust of the Rus	to recommending a proposed w. However, the preparer shouted prior to Table (B).  The commending a proposed to recommend the prior to Table (B).
	the applicant/engrate with an esting remember that the Recommended Recommended Rother: (If Charge Recommended Rother:   Tirst	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table below the Table (A) above must be completed ate Schedule with RUS Grant:  The contract of the Rus Grant of th	to recommending a proposed w. However, the preparer shouted prior to Table (B).  The Charge \$
	the applicant/engrate with an esting remember that the Recommended Recommended Rother: (If Charge Recommended Rother:   Limit   Limit	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table below the Table (A) above must be completed ate Schedule with RUS Grant:  The action of the Table (A) at the Table (A) above must be completed to the schedule with RUS Grant:  The action of the the schedule of the sch	to recommending a proposed w. However, the preparer shouted prior to Table (B).  The Charge \$ Minimum.  The per 1,000 Gallons
•	the applicant/eng rate with an estin remember that th  Recommended R  Percentage of Wo  Other: (If Charg  Recommended R  First  Next  Next	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table below the Table (A) above must be completed ate Schedule with RUS Grant:  The action of the Table (A) above must be completed to the second	to recommending a proposed w. However, the preparer show ted prior to Table (B).  The Charge \$ Minimum.  The per 1,000 Gallons per 1,000 Gallons
	the applicant/engrate with an estin remember that the Recommended Recommended ROther: (If Charge Recommended RECOMMENTE RECOMMENTE REST REST REST REST REST REST REST RE	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table below the Table (A) above must be completed ate Schedule with RUS Grant:  The action of the Table (A) above must be completed to the second	to recommending a proposed w. However, the preparer show ted prior to Table (B).  The Charge \$ Minimum.  The per 1,000 Gallons per 1,000 Gallons per 1,000 Gallons
	the applicant/engrate with an esting remember that the Recommended Recommended Rother: (If Charge Recommended Rother: Next Next Next Next Next Next	sed rate, without RUS grant, must rineer desires, there is no objection nated RUS grant in the Table below the Table (A) above must be completed at e Schedule with RUS Grant:  The action of the Table (A) above must be completed at e Schedule with RUS Grant:  The action of the Allohom of the Allons of the Allo	to recommending a proposed w. However, the preparer shou ted prior to Table (B).  The Charge \$ Minimum.  The per 1,000 Gallons per 1,000 Gallons per 1,000 Gallons

#### XXII. WATER RATES - PROPOSED

#### A. Proposed Rate Schedule without RUS Grant:

All Meter Sizes		
first 2,000	23.25	minimum
next 5,000	8.00	per 1,000 gallons
next 13,000	6.00	per 1,000 gallons
over 20,000	5.50	per 1,000 gallons

The above proposed rate, without RUS grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RUS grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

B. Recommended Rate Schedule with RUS Grant:

Date This Rate Went Into Effect N/A

# XXIII. <u>FORECAST OF SEWER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS</u>

Meter Size*		Sewer Usage	Average Average Rate		Resider	ntial	No. of Usage Users (1000)	idential	
				No. of Users**	_		•	_	Income
<i>x</i> 3/4	2,000 - 3,000 - 4,000 - 5,000 - 6,000 - 7,000 - 8,000 - 10,000 - 11,000 - 12,000 - 13,000 - 14,000 - 15,000 -	3,000 Gallons 4,000 Gallons 5,000 Gallons 6,000 Gallons 7,000 Gallons 9,000 Gallons 10,000 Gallons 12,000 Gallons 13,000 Gallons 14,000 Gallons 15,000 Gallons	2,500						
	<i>17,000 - 1</i>	18,000 Gallons	16,500 17,500 18,500			<u> </u>			

(15)

19,000 - 20,000 Gallons 19,500							
Gallons							
Gallons							
Gallons							
Sub-Total	(	)(	)(	) (	)(	)(	)
Average Monthly Rate ()							
Average Monthly Usage		(	)		(	)	

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

	<b>-</b>	Gallons							
	<b>-</b>	Gallons							
1		Gallons							
Inch		Gallons							
		Gallons							
	<b>-</b>	Gallons							
		Sub-Total	(	)(	)(		)(	) (	
		Gallons							
	<b>-</b>	Gallons							
1-1/2	<b>-</b>	Gallons							
Inch	<b>-</b>	Gallons							
	<b>-</b>	Gallons							
		Gallons							
		Sub-Total	(	) (	)(	) (	)(	)(	)
	-	Gallons							
		Gallons							
2-	<b>-</b>	Gallons							
Inch		Gallons							
		Gallons							
		Gallons							
		Sub-Total	(	)(	)(	) (	)(	)(	)
		Gallons							
	<b>-</b>	Gallons							
<i>3-</i>		C 11							
Inch	=	Gallons							
		Gallons							
	<b>-</b>	Gallons							
		Sub-Total	(	)(	)(	) (	)(	)(	)
	<b>-</b>	Gallons							
	<b>-</b>	Gallons							
4-		Gallons							
Inch	<b>-</b>	Gallons							
	<b>-</b>	Gallons							
	<b>-</b>	Gallons							
		Sub-Total	(	)(	)(	) (	)(	)(	)

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

	not billed as a typ	pical residei	ıtial user, p				ial infori	mation	
	F <u>AMILY AND AI</u> es a typical user, t	he informat			ad in the	• 7			
	TOT	ALS	(_	)(	)(	) (	)(	)(	)
	Gall Sub-	ons Total	(_	(	)(		)(		)
	Gall	ons							
6 Inch	Gall -	ons							
		ons							
		Total	(_						)
	Gall	ons ons							
<i>Inch</i>	Gall Gall								
5 Inch		ons							

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

# XXIV.<u>FORECAST OF SEWER USAGE - INCOME - NEW USERS - EXTENSION ONLY</u> N/A

Metei	r Averag	r <b>e</b>					
<u>Size*</u>	Monthly Sewer Usage Average Rate		Reside	<u>ntial</u>	Λ	on-Res	<u>idential</u>
		No. of Users**	0	Income	No. of Users	(1000)	Income
	0 - 2,000 Gallons 1,000						
	2,000 - 3,000 Gallons 2,500						
	3,000 - 4,000 Gallons 3,500						
	4,000 - 5,000 Gallons 4,500						
	5,000 - 6,000 Gallons 5,500						
	6,000 - 7,000 Gallons 6,500						
	7,000 - 8,000 Gallons 7,500						
	8,000 - 9,000 Gallons 8,500						
	9,000 - 10,000 Gallons 9,500						
5/8	10,000 - 11,000 Gallons 10,500						
$\boldsymbol{x}$	11,000 - 12,000 Gallons 11,500						
3/4	12,000 - 13,000 Gallons 12,500						
	13,000 - 14,000 Gallons 13,500						
	14,000 - 15,000 Gallons 14,500						
	15,000 - 16,000 Gallons 15,500						
	16,000 - 17,000 Gallons 16,500						
	17,000 - 18,000 Gallons 17,500						
	18,000 - 19,000 Gallons 18,500						
	19,000 - 20,000 Gallons 19,500						
	Gallons						
	Gallons						
	Gallons						
				$\overline{()}$	$\overline{()}$	( )	$\overline{()}$
	Average Monthly Rate (		`	\	`	`	\
	Average Monthly Usage	•		( )			( )

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

				N/A				
	Gallons							
	Gallons							
1	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	)(	) (	) (	)(	)(	)
	Gallons							
	Gallons							
1-1/2	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	) (	) (	) (	) (	)(	)
	Gallons							
	Gallons							
<b>2-</b>	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	) (	) (	) (	) (	)(	)
	Gallons							
	Gallons							
<i>3-</i>	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	) (	) (	) (	) (	)(	)
	Gallons							
	Gallons							
4	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	)(	)(	) (	)(	)(	)

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

				N/A						
	Gall	ons								
	Gall	ons								
<i>5-</i>	Gall	ons								
<i>Inch</i>	Gall	ons								
	Gall	ons								
	Gall	ons								
	Sub-	Total	(	)(	)(	)	(	)(	)(	
	Gall	ons								
	Gall	ons								
<b>6-</b>	Gall	ons								
Inch	Gall	ons								
	Gall	ons								
	Gall	ons								
	Sub-	Total	(	)(	)(	)	(	)(	)(	
	TOT	ALS	(	)(	)(	)	(	)(	)(	
	typical user, t t billed as a typ						denti	ial infor	mation	
Na <u>of U</u>		Number <u>of Units</u>	Number of Meters				even culai	ue tions		

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

# XXV. $\underline{FORECAST}$ OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING $\underline{USERS}$

Meter Size*	Monthly Wat	er Usage		Average e <u>Rate</u>		Reside	ential	<u>No</u>	on-Resid	lential
					No. of Users**	_	Income	No. of Users	Usage (1000)	Income
	0 - 2,00	0 Gallons	967	23.25	266_	257	6,185	11	11	259
All	2,000 - 7,00	0 Gallons	3,732	37.11	1806	1 <u>806</u>	17,959			
Sizes	7,000 - 20,00	0 Gallons	10,370	83.47	892	892	7,178			
	Over - 20,00	0 Gallons	44,101	273.81	441	441	2,738			
	-	Gallons								
		Su	b-Total		( <u>846</u> _)(	( <u>40,920</u> )	( <u>34,272</u> )	<u>(11)</u>	()	( <u>259</u> )
		ge Month	•	( <u>37.62</u> )						
	Averag	e Monthly	Usage			( <u><b>4,015</b></u> )			( <u><b>967</b></u> )	

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different water rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

	- Gallons				
	- Gallons	 	 		 
1-	Gallons				
Inch	Gallons				
	- Gallons	 	 		
	- Gallons				
	Sub-Total				
	- Gallons				
	- Gallons	 	 		 
1-1/2	- Gallons				
Inch	Gallons				
	- Gallons				
	- Gallons				
	Sub-Total				
	- Gallons				
	- Gallons	 	 		
2-	- Gallons	 	 		
Inch	- Gallons				
	- Gallons				
	Gallons				
	Sub-Total				
	- Gallons				
	- Gallons	 	 		
3-	- Gallons	 	 		
Inch	- Gallons				
	- Gallons				
	- Gallons				
	Sub-Total		 	)(	
	- Gallons				
	- Gallons	 	 		
4-	- Gallons		 		
Inch	- Gallons	 	 		
	- Gallons				
	- Gallons		 		
	Sub-Total				

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different water rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

	-	Gallons						
		Gallons						
5-		Gallons						
Inch	-	Gallons						
	-	Gallons						
		Sub-Total	)(			)(	)(	
		Gallons	 					
		Gallons						
6-	-	Gallons						
Inch	-	Gallons						
	-	Gallons				· ·		
		Sub-Total		)(				
		TOTALS	()	()	()	()	()	0

### MULTI-FAMILY AND APARTMENT USER ANALYSIS

If billed as a typical user, the information should be included in the residential information above. If not billed as a typical residential user, please explain below.

Name <u>of Unit</u>	Number of Meters	Revenue <u>Calculations</u>

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different water rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

# XXVI.FORECAST OF WATER USAGE - INCOME - NEW USERS - EXTENSION ONLY N/A

Meter Size*	8	: 	Reside	ntial	N	Von-Res	<u>idential</u>
		No. of Users**	_	Income	No. of Users	Usage (1000)	Income
5/8 x 3/4	0 - 2,000 Gallons 1,000						
	13,000 - 14,000 Gallons 13,500  14,000 - 15,000 Gallons 14,500  15,000 - 16,000 Gallons 15,500  16,000 - 17,000 Gallons 16,500  17,000 - 18,000 Gallons 17,500  18,000 - 19,000 Gallons 18,500  19,000 - 20,000 Gallons 19,500  - Gallons  - Gallons  - Gallons						
	Sub-Total Average Monthly Rate () Average Monthly Usage	()	()		()	()	

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

				N/A				
	Gallons							
	Gallons							
1	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	)(	)(_	) (_	)(	)(	)
	Gallons							
	Gallons							
1-1/2	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(	)(	)(_	) (_	)(	)(	)
	- Gallons							
	Gallons	<del></del>			<del></del>			
2-	- Gallons							
Inch	- Gallons							
	- Gallons							
	- Gallons							
	Sub-Total	(	)(					
	- Gallons							
	- Gallons	<del></del>			<del></del>			
3-	- Gallons	<del></del>			<del></del>			
Inch	- Gallons —							
	- Gallons							
	- Gallons —							
	Sub-Total							
	- Gallons							
· <del></del>	- Gallons							
4-	- Gallons							
Inch	- Gallons							
	- Gallons							
	- Gallons							
	Sub-Total	(	<u> </u>	<u> </u>			<u> </u>	)

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

				N/A				
	Gallons							
	Gallons							
5-	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(_	)(_	)(_	) (	)(	)(	
	Gallons							
	Gallons							
6-	Gallons							
Inch	Gallons							
	Gallons							
	Gallons							
	Sub-Total	(_	)(	)(	) (	)(	)(	`
	TOTALS	(_	)(_	)(	) (	)(	)(	
	typical user, the informa as a typical residential u				esidential	informa	tion abov	ve.
	me Number of Units				Rever <u>Calcula</u>			
		_						
		_						

<sup>\*</sup> Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

<sup>\*\*</sup> Number of users should reflect the actual number of "meter settings".

### Based upon 12 months A. Operating Income: Sewer Revenue \$ \_\_\_\_\_ Late Charge Fees Other (Describe) (\_\_\_\_\_) Less Allowances and Deductions **Total Operating Income** B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners) \$\_\_\_\_\_ **Operation Expense** Maintenance Expense Customer Accounts Expense Administrative and General Expense Total Operating and Maintenance Expenses **Net Operating Income** \$ \_\_\_\_\_ C. Non-Operating Income: \$\_\_\_\_\_ **Interest on Deposits** Other (Identify) Interest Income Grant **Total Non-Operating Income** D. Net Income E. Debt Repayment: \$ \_\_\_\_ **RUS Interest RUS Principal** Non-RUS Interest Non-RUS Principal \$ \_\_\_\_ Total Debt Repayment

**CURRENT OPERATING BUDGET - (SEWER SYSTEM)** NA

XXVII.

F. Balance Available for Coverage

# XXVIII. <u>PROPOSED OPERATING BUDGET - (SEWER SYSTEM) - EXISTING SYSTEM</u> <u>AND NEW USERS</u> (1st Full Year of Operation) Year Ending

<b>A.</b>	Operating Income:		
	Sewer Revenue	\$	
	Late Charge Fees		
	Other (Describe)		
	Less Allowances and Deductions	(	)
	Total Operating Income	\$	
В.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by Regulatory Utility Commissioners)	National Association of	
	Operation Expense	\$	
	Maintenance Expense		
	Customer Accounts Expense		
	Administrative and General Expense		
	Total Operating and Maintenance Expenses	\$	
	Net Operating Income	\$	
<i>C</i> .	Non-Operating Income:		
	Interest on Deposits	\$	
	Other (Identify)		
	Total Non-Operating Income	\$	
D.	Net Income	\$	
<b>E</b> .	Debt Repayment:		
	RUS Interest	\$	
	RUS Principal		
	Non-RUS Interest		
	Non-RUS Principal		
	Total Debt Repayment	\$	
F.	Balance Available for Coverage Depreciation Fund	\$	
	Short Lived Assets Balance Available	\$	
	Dumine Arminote	$\varphi$	

### XXIX. PROPOSED OPERATING BUDGET - (SEWER SYSTEM) - NEW USERS -EXTENSION ONLY (1st Full Year of Operation) Year Ending N/A A. Operating Income: Sewer Revenue \$ \_\_\_\_\_ Late Charge Fees Other (Describe) ( Less Allowances and Deductions **Total Operating Income** B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners) **Operation Expense** Maintenance Expense Customer Accounts Expense Administrative and General Expense \$\_\_\_\_\_ Total Operating and Maintenance Expenses \$ **Net Operating Income** C. Non-Operating Income: \$\_\_\_\_\_ **Interest on Deposits** Other (Identify) **Total Non-Operating Income** \$ \_\_\_\_\_ \$ \_\_\_\_\_ D. Net Income E. Debt Repayment: **RUS Interest RUS Principal** Non-RUS Interest Non-RUS Principal \$ Total Debt Repayment \$

F. Balance Available for Coverage

# XXX. CURRENT OPERATING BUDGET - (WATER SYSTEM) Based upon 12 months year ending 2018

A.	Operating Income:		
	Water Sales	\$_	249,338
	Disconnect/Reconnect/Late Charge Fees	_	23,897
	Other (other water revenues) Miscellaneous	_	7,308
	Other Refunds	_	
	Less Allowances and Deductions	(_	7,308
	Total Operating Income	\$_	273,235
B.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Associated Regulatory Utility Commissioners)	iatior	n of
	Operation Expense	\$_	150,965
	Maintenance Expense	_	52,121
	Customer Accounts Expense	_	
	Administrative and General Expense	_	58,749
	Total Operating Expenses	\$_	261,835
	Net Operating Income	\$_	11,400
C.	Non-Operating Income:		
	Interest on Deposits	\$_	706
	Other (Interest Income)	_	0
	Total Non-Operating Income	\$_	706
D.	Net Income	\$	12,106
E.	Debt Repayment:		
	RUS Interest	\$_	6,061
	RUS Principal	_	4,443
	Non-RUS Interest	_	0
	Non-RUS Principal	_	0
	Total Debt Repayment	\$_	10,504
F.	Balance Available for Coverage	\$_	1,602

#### PROPOSED OPERATING BUDGET - (WATER SYSTEM) - EXISTING SYSTEM AND NEW USERS Year Ending 2021 A. Operating Income: Water Sales \$ 411,792 7,500 Disconnect/Reconnect/Late Charge Fees Other (other water revenues) 7,308 7,308 Less Allowances and Deductions 419,292 **Total Operating Income** B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners) Operation Expense\* \$ 163,383 Maintenance Expense 56,408 Customer Accounts Expense Administrative and General Expense 115,282\* 335,073 **Total Operating Expenses** 84,219 Net Operating Income C. Non-Operating Income: 706 Interest on Deposits 0 Other (Interest Income) Total Non-Operating Income 706 D. Net Income 84,925 E. Debt Repayment: **RUS** Interest 41,527 22,539 **RUS Principal** Non-RUS Interest 0 Non-RUS Principal 64,066 Total Debt Repayment F. Balance Available for Coverage 20,859 **Short Lived Assets** 13,510

XXXI.

Debt Reserve

Balance Available

6,407

942

<sup>\*</sup>Includes \$51,700 increased expense for expanding office hours from 3 days a week to 5 days a week, the additional planned salaries/benefits increase associated with that increase.

# XXXII. PROPOSED OPERATING BUDGET - (WATER SYSTEM) - NEW USERS - EXTENSION ONLY Year Ending 2018

A.	Operating Income:	
	Water Sales*	\$
	Disconnect/Reconnect/Late Charge Fees	
	Other (Describe)	
	Less Allowances and Deductions	()
	Total Operating Income	\$
B.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Assoc Regulatory Utility Commissioners)	iation of
	Operation Expense	\$
	Maintenance Expense	
	Customer Accounts Expense	
	Administrative and General Expense	
	Total Operating Expenses	\$
	Net Operating Income	\$
C.	Non-Operating Income:	
	Interest on Deposits	\$
	Other (Identify)	
	Total Non-Operating Income	\$
D.	Net Income	\$
E.	Debt Repayment:	
	RUS Interest	\$
	RUS Principal	
	Non-RUS Interest	
	Non-RUS Principal	
	Total Debt Repayment	\$
F.	Balance Available for Coverage	\$
	Short Lived Assets	
	Debt Reserve	
	Balance Available	\$

<sup>\*</sup>Based on 6 new customers using average of 4,500 gallons per month = \$30.35 per customer per month

Other (Specify)

		<u>Collection</u>	<u>Treatment</u>	<u>Total</u>
	Development			
	Land and Rights			
	Legal			
	Engineering			
	Interest			
	Contingencies			
	Initial Operating and Maintenance			
	Other			
	TOTAL			
XXXIV.				
XXXIV.	PROPOSED PROJECT FUNDING – S	<u>EWER</u>	N/.	A
XXXIV.	PROPOSED PROJECT FUNDING – S	EWER  Collection	N/. <u>Treatment</u>	A <u>Total</u>
XXXIV.	PROPOSED PROJECT FUNDING – S  Applicant - User Contribution Fees			
XXXIV.				
XXXIV.	Applicant - User Contribution Fees			
XXXIV.	Applicant - User Contribution Fees Other - Applicant Contribution			
XXXIV.	Applicant - User Contribution Fees Other - Applicant Contribution RUS Loan			
XXXIV.	Applicant - User Contribution Fees Other - Applicant Contribution RUS Loan RUS Grant			

### XXV. <u>ESTIMATED PROJECT COST – WATER</u>

Development	\$ 1,004,875
Land and Rights	
Legal	10,000
Engineering	169,300
Interest	0
Contingencies	100,500
Initial Operating and Maintenance	0
Other (Environmental)	5,000
TOTAL	\$ 1,289,675

### XXXVI. PROPOSED PROJECT FUNDING

Applicant - User Connection Fees \$	0
Other Applicant Contribution	0
RUS Loan	1,289,675
RUS Grant	0
ARC Grant (If applicable)	0
CDBG (If applicable)	0
Other (Specify)	0
Other (Specify)	0
TOTAL	\$ 1,289,675