COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

RESPONSE OF GREEN RIVER VALLEY WATER DISTRICT TO COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Green River Valley submits its Response to Commission Staff's First Request for

Information.

Dated: September 17, 2019

Respectfully submitted,

the

J. David Smith, Jr. david.smith@skofirm.com Gerald E. Wuetcher gerald.wuetcher@skofirm.com Stoll Keenon Ogden PLLC 300 West Vine St. Suite 2100 Lexington, Kentucky 40507-1801 Telephone: (859) 231-3000 Fax: (859) 259-3517

Counsel for Green River Valley Water District

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Green River Valley Water District's electronic filing of this Response is a true and accurate copy of the same document being filed in paper medium; that the electronic filing was transmitted to the Public Service Commission on September 17, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that on or before September 19, 2019 this Response in paper medium will be delivered to the Public Service Commission.

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COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF GREEN)
RIVER VALLEY WATER DISTRICT)
PURSUANT TO KRS 278.023 AND 807 KAR)
5:069 FOR A CERTIFICATE OF PUBLIC)
CONVENIENCE TO EXPAND ITS WATER) CASE NO. 2019-00287
TREATMENT PLANT AND RELATED)
WATERWORKS IMPROVEMENTS, AN)
ADJUSTMENT OF ITS RATES FOR WATER)
SERVICE; AND AUTHORIZATION TO ISSUE)
CERTAIN SECURITIES)

RESPONSE OF

GREEN RIVER VALLEY WATER DISTRICT

ТО

COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

FILED: September 17, 2019

VERIFICATION

COMMONWEALTH OF KENTUCKY)) SS: COUNTY OF HART)

The undersigned, David Paige, being duly sworn, deposes and states that he is the General Manager of Green River Valley Water District and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Devid Paige General Manager Green River Valley Water District

Subscribed and sworn to before me, a Notary Public in and before said County and State this $\frac{17}{2}$ day of September 2019.

HUIS EXPIRES My Commission Expires: 545043 Notary ID: ____

GREEN RIVER VALLEY WATER DISTRICT

Response to Commission Staff's First Request for Information Case No. 2019-00287

Question No. 1

Responding Witness: David Paige

- Q-1. As 807 KAR 5:069, Section 2(6)(c), provides, the proposed rates, if any, shall produce the total revenue requirements recommended in the engineering reports. Provide a copy of the billing analysis in PDF and Excel spreadsheet format showing revenue at current rates and at proposed rates based on actual and forecasted water usage for the existing system for a 12-month period as contained in the Kentucky Guide 7 Summary Addendum that was provided to the United States Department of Agriculture Rural Development (RD) as referenced in the Preliminary Engineering Report on page 17 (Revised April 2016) as part of the loan application. The copy provided in Excel spreadsheet format should have formulas intact and unprotected, and all rows and columns fully accessible.
- A-1. The billing analysis supporting the rates recommended in the revised preliminary engineering report is found in the Summary Addendum to the Preliminary Engineering at pages 22-25. For a copy of Summary Addendum, see Exhibit 2A to Response to Question 2.

Because of an increase in the loan amount and because the original billing analysis had been rendered stale by the passage of time, Green River Valley Water District commissioned Kentucky Rural Water Association to perform a cost-of-service using the 12-month period ending June 30, 2018. A copy of this study is attached as Exhibit 2B to the Response to Question 2. As part of this study, a billing analysis was performed

Attached as Exihibt 1A to this Response is a billing analysis that shows the revenue the proposed rates will produce. This analysis uses usage information contained in the recent cost-of-service study. An electronic version of this billing analysis in Excel format is embedded in the electronic version of this Response. (The electronic version shows the revenues produced under several different scenarios.)

Because the proposed rates use different usage blocks than those in Green River Valley Water District's current rate schedule, a billing analysis based upon the 12-month period ending June 30, 2018 and using the current rates was not performed. (The current rate schedule has six usage blocks.)

EXHIBIT 1A

GRVWD - Billing Analysis Water Usage for Year 2018

Total Project - \$11,625,000

Rates Proposed for 30:70 Grant Loan, January 2019

RESIDENTIAL WATER USE TABLE

Wa	ter Use	Number	Total Usage	First	Next	Next	Next
((Gal.)	Bills	(M Gal.)	2,000	8,000	20,000	30,000
First	2,000	24,340	23,585.2	23,585.2			
Next	8,000	46,598	216,059.5	93,196.0	122,863.5		
Next	20,000	5,764	89,994.6	11,528.0	46,112.0	32,354.6	
Over	30,000	920	53,581.8	1,840.0	7,360.0	18,400.0	25,981.8
TO	TALS	77,622	383,221.1	130,149.2	176,335.5	50,754.6	25,981.8

RESIDENTIAL REVENUE TABLE

5/8" x 3/4" METER

Water Use		No. Bills	M Gallons	KRWA Proposed	Revenue
First	2,000 gallons	77,622	130,149.2	\$22.10 Min. Bill	\$1,715,446
Next	8,000 gallons		176,335.5	5.95 per M Gal.	1,049,196
Next	20,000 gallons		50,754.6	4.85 per M Gal.	246,160
Over	30,000 gallons		25,981.8	3.85 per M Gal.	100,030
		ANNUAL RE	EVENUE		\$3,110,832

COMMERCIAL WATER USE TABLE

5/8" x 3/4" METER

			•				
Wa	ter Use	Number	Total Usage	First	Next	Next	Next
(Gal.)		Bills	(M Gal.)	2,000	8,000	20,000	30,000
First	2,000	1,325	646.8	646.8			
Next	8,000	684	3,543.1	1,368.0	2,175.1		
Next	20,000	209	3,569.8	418.0	1,672.0	1,479.8	
Over	30,000	72	5,526.6	144.0	576.0	1,440.0	3,366.6
TO	TALS	2,290	13,286.3	2,576.8	4,423.1	2,919.8	3,366.6

COMMERCIAL REVENUE TABLE

5/8" x 3/4" METER

	Water Use	No. Bills	M Gallons	KRWA Proposed	Revenue			
First	2,000 gallons	2,290	2,576.8	\$22.10 Min. Bill	\$50,609			
Next	8,000 gallons		4,423.1	\$5.95 per M Gal.	26,317			
Next	20,000 gallons		2,919.8	\$4.85 per M Gal.	14,161			
Over	30,000 gallons		3,366.6	\$3.85 per M Gal.	12,961			
	ANNUAL REVENUE							

5/8" x 3/4" METER

GRVWD - Billing Analysis

Water Usage for Year 2018

Rates Proposed for 30:70 Grant Loan, January 2019

RESIDENTIAL WATER USE TABLE

Wa	ter Use	Number	Total Usage	First	Next	Next	Next
(Gal.)	Bills	(M Gal.)	5,000	5,000	20,000	30,000
First	5,000	363	871.8	871.8			
Next	5,000	182	1,350.3	910.0	440.3		
Next	20,000	173	3,276.1	865.0	865.0	1,546.1	
Over	30,000	97	10,819.3	485.0	485.0	1,940.0	7,909.3
TC	DTALS	815	16,317.5	3,131.8	1,790.3	3,486.1	7,909.3

RESIDENTIAL REVENUE TABLE

	Water Use	No. Bills	M Gallons	KRWA Proposed	Revenue
First	5,000 gallons	815	3,131.8	\$39.95 Min. Bill	\$32,559
Next	5,000 gallons		1,790.3	5.95 per M Ga	l. 10,652
Next	20,000 gallons		3,486.1	4.85 per M Ga	I. 16,908
Over	30,000 gallons		7,909.3	3.85 per M Ga	l. 30,451
	\$90,570				

COMMERCIAL WATER USE TABLE

COMMERCIAL REVENUE TABLE

Wa	ter Use	Number	Total Usage	First	Next	Next	Next
((Gal.)	Bills	(M Gal.)	5,000	5,000	20,000	30,000
First	5,000	241	398.6	398.6			
Next	5,000	48	359.4	240.0	119.4		
Next	20,000	69	1,281.6	345.0	345.0	591.6	
Over	30,000	128	14,522.1	640.0	640.0	2,560.0	10,682.1
TO	TALS	486	16,561.7	1,623.6	1,104.4	3,151.6	10,682.1
				10501 7			

16561.7

1" MFTFR

0000								
	Water Use	No. Bills	M Gallons	KRWA Proposed	Revenue			
First	5,000 gallons	486	1,623.6	\$39.95 Min. Bill	\$19,416			
Next	5,000 gallons		1,104.4	\$5.95 per M Gal.	6,571			
Next	20,000 gallons		3,151.6	\$4.85 per M Gal.	15,285			
Over	30,000 gallons		10,682.1	\$3.85 per M Gal.	41,126			
	ANNUAL REVENUE							

1" METER

1" METER

1" METER

Total Project - \$11,625,000

GRVWD - Billing Analysis

Water Usage for Year 2018

Rates Proposed for 30:70 Grant Loan, January 2019

RESIDENTIAL WATER USE TABLE

Wa	ter Use	Number	Total Usage	First	Next	Next	Next
(Gal.)		Bills	(M Gal.)	15,000	15,000	30,000	0
First	15,000	7	13.5	13.5			
Next	15,000	4	96.0	60.0	36.0		
Over	30,000	20	1,215.9	300.0	300.0	615.9	
TO	TALS	31	1,325.4	373.5	336.0	615.9	0.0

RESIDENTIAL REVENUE TABLE

RESID	RESIDENTIAL REVENUE TABLE								
Water Use		No. Bills	M Gallons	KRWA Proposed	Revenue				
First	15,000 gallons	31	373.5	\$93.95 Min. Bill	\$2,912				
Next	15,000 gallons		336.0	4.85 per M Gal.	1,630				
Over	30,000 gallons		615.9	3.85 per M Gal.	2,371				
					0				
	ANNUAL REVENUE								

COMMERCIAL WATER USE TABLE

Wat	ter Use	Number	Total Usage	First	Next	Next	Next
((Gal.)	Bills	(M Gal.)	15,000	15,000	30,000	0
First	15,000	99	443.2	443.2			
Next	15,000	41	965.4	615.0	350.4		
Over	30,000	165	22,671.4	2,475.0	2,475.0	17,721.4	
TO	TALS	305	24,080.0	3,533.2	2,825.4	17,721.4	0.0

COMMERCIAL REVENUE TABLE

	Water Use	No. Bills	M Gallons	KRWA Proposed	Revenue	
First	15,000 gallons	305	3,533.2	\$93.95 Min. Bill	\$28,655	
Next	15,000 gallons		2,825.4	\$4.85 per M Gal.	13,703	
Over	30,000 gallons		17,721.4	\$3.85 per M Gal.	68,227	
ANNUAL REVENUE \$11						

2" METER

2" METER

Total Project - \$11,625,000

2" METER

GRVWD - Billing Analysis Water Usage for Year 2018 Rates Proposed for 30:70 Grant Loan, January 2019

Total Project - \$11,625,000

Water Utility	Water Use	KRWA	Revenue
	(M Gal.)	(\$/M Gal.)	
City of Horse Cave	270,470	\$2.59	\$700,516
Caveland Environmental Authority-Cave City	119,374	2.59	309,178
City of Munfordville	99,481	2.59	257,657
Larue County Water District	92,237	2.59	238,894
City of Bonnieville	17,134	2.59	\$44,377
Green-Taylor Water District	60,419	2.59	156,486
CEA-Mammoth Cave	11,643	2.59	30,155
ANNUAL REVENUE	670,757.9		\$1,737,263

WHOLESALE CUSTOMERS REVENUE TABLE

Billing Analysis Summary

Customer Type	Bills	M Gallons	Sales
Retail, Residential	93,970.5	400,864.0	\$3,208,315
Retail, Commercial	3,081	53,928.0	\$297,032
Wholesale	84	84 670,757.9	
Totals	3,165	724,685.9	\$5,242,611

Revenue From Existing Rates\$4,234,812

Additional Revenue \$1,007,799

GREEN RIVER VALLEY WATER DISTRICT

Response to Commission Staff's First Request for Information Case No. 2019-00287

Question No. 2

Responding Witness: David Paige

Q-2. Provide a copy of the Kentucky Guide 7 Summary Addendum that Green River Valley District provided to RD as part of the loan application.

A-2. A copy of the Addendum is attached as Exhibit 2A. Because of an increase in the loan amount and because the original study had been rendered stale by the passage of time, Green River Valley Water District commissioned Kentucky Rural Water Association to perform a cost-of-service using the 12-month period ending June 30, 2018. A copy of this study is attached as Exhibit 2B. This study was submitted to Rural Development in early 2019.

EXHIBIT 2A

KENTUCKY GUIDE 7 May 1998

SUMMARY ADDENDUM

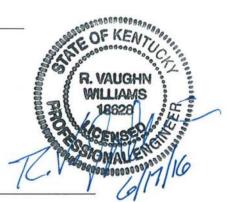
То

PRELIMINARY ENGINEERING REPORT

DATED June 8, 2016 (Revised June 17, 2016)

FOR

Green River Valley Water District Water Treatment Plant Expansion (NAME OF PROJECT)



APPLICANT CONTACT PERSON _____ David Paige, Manager

APPLICANT PHONE NUMBER (270) 773-2135

APPLICANT TAX IDENTIFICATION NUMBER (TIN) 61 - 605759

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 <u>both</u> be taken as security for the loan, all user information and characteristics of <u>both</u> utility systems will be needed even though the project will benefit only <u>one</u> utility.*

Feasibility reviews and <u>grant determinations</u> 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. <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 will consist of improvements to the existing raw water intake on Green River, a secondary raw water pump station, new Chlorine Building and feed equipment, two (2) new twostaged flocculation basins and two (2) sedimentation basins, two (2) new filters, and a new 1,200,000 gallon clearwell. There will also be yard piping improvements, as well as refurbishing the existing laboratory and operator area.

The proposed project also includes the addition of Variable Frequency Drives (VFD) and controls to the existing raw water and high service pumps. The new VFDs will allow the pumps to be efficiently paced to meet the Water Treatment Plant (WTP) demand and minimize the amount of power consumed.

Data contained herein was obtained from the District's Financial Statement, July 1, 2014 to June 30, 2015.

II. FACILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM – N/A

A. Sewage Treatment:

- 1. Type _____
- 2. Method of Sludge Disposal _____
- 3. Cost per 1,000 gallons is 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 Collection	on Lines, by size 6"	8"	
10"	12"	, Larger	
Date(s) Constructed			

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.

Green River Valley Water District owns and operates a water treatment plant and potable water distribution system in Hart, Barren, Green, Larue, and Metcalfe Counties, Kentucky. The capacity of the WTP is currently 6.0 MGD and was previously improved and expanded in 1979, 1995, 2003, and 2009. In July 2014, which was the month that exhibited the highest demand, the average daily demand was 4.3 MGD, or roughly 72% of the design capacity. GRVWD currently maintains approximately 760 miles of water lines ranging in size from 2" through 20", 13 storage tanks with a total combined storage volume of 3,457,000 gallons, and 17 booster pump stations.

The existing WTP implements a conventional treatment process and raw water is obtained from two independent sources. The first raw water intake is a concrete tower type located on Green River. The second is a gravity feed intake located at Rio Verde Spring. Green River can easily provide all the raw water needed by the Water District, but the quality is less pristine than that provided by Rio Verde Spring. The spring is a limited supply of raw water that can sustain a flow of roughly 3.5 MGD during dry periods.

If the applicant purchases water: Seller(s);

N/A	

Price/1,000 gallons:

N/A		

Present Estimated Market Value of Existing System: \$ \$26,538,226 *

(* Value of Total Assets is reported above. Total Net Position is \$13,349,639)

B. Water Storage:

Type:	Ground Storage Tank		0	Elevat	ed Tank	0	
	Standpipe	13		Other			
Numbe	Number of Storage Structures		13				
Total S	Total Storage Volume Capacity		3,457,000 gallons				
Date Storage Tank(s) Constructed			1976, 1977, 1983, 1985, 1988, 2005, 2007, & 2010				

C. Water Distribution System:

Linear Feet of Pipe:	2"	Diameter	76,56	50	3"	1,483,680
	4"	1,038,523	3		6"	714,173
	8"	199,056			10"	147,312
	12"	125,136		16"	102,062	
	20"	5,280				
Date(s) Water Lines	Cons		(977, 1983, & 2010	1985,	1988, 2005,
Number and Capacit	y of I	Pump Stati	on(s)	17 booste	r pum	p stations ranging
from 18 to 1,600 gpn	n.					

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 existing water distribution system is aging and considered to be in moderate condition. New distribution lines will need to be installed within ten years. The existing water treatment plant is designed to produce 6.0 million gallons per day (MGD), and is operating at near maximum capacity during high use period. The improvements proposed herein will expand the plant's capacity to 8.0 MGD, with minimal work needed in the future to increase the capacity to 10.0 MGD.

E. Percentage of Water Loss Existing System 11.8 %

IV. EXISTING LONG-TERM INDEBTEDNESS

Date of Issue	Bond/Note <u>Holder</u>	Principal Balance	Payment Date	Bond Water/S	- 1	Amount on Deposit in Reserve Account
19 <u>96</u> Issue	USDA-RD	\$ 758,000	Apr/Oct 1	100	%	%
19 <u>96</u> Issue	USDA-RD	\$ 468,000	Apr/Oct 1	100	%	%
1996 Issue	USDA-RD	\$ 185,000	Apr/Oct 1	100	%	%
2004 Issue	USDA-RD	\$ 4,438,000	Apr/Oct 1	100	%	%
2010 Issue	USDA-RD	\$ 2,986,500	Apr/Oct 1	100	%	%
2013 Issue	KRWFC	\$ 2,875,000	Jan/Jul 1	100	%	%
2014 Issue	KIA	\$ 1,175,000	Jun/Dec 1	100	%	%
	-		Total	Reserve A	mount	\$517,200

A. List of Bonds and Notes:

*If a combined issue, show attributable portion to each system.

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

		Payment Year 2015		Paymo Yea 2010	r	Payment Year 2017	
Date of Issue	Bond/Note <u>Holder</u>	Principal Payment	Interest Payment	Principal Payment	Interest Payment	Principal Payment	Interest Payment
19 <u>96</u> Issue	USDA	\$23,000	\$34,110	\$24,000	\$33,030	\$25,000	\$31,905
19 <u>96</u> Issue	USDA	14,500	21,083	15,000	20,408	15,500	19,710
19 <u>96</u> Issue	USDA	5,500	8,303	5,500	8,055	5,500	7,808
2004 Issue	USDA	74,000	199,710	77,000	196,245	81,000	192,600
2010 Issue	USDA	55,500	68,237	57,000	66,983	58,000	65,696
2013 Issue	KRWFC	435,000	118,913	390,000	104,558	370,000	87,788
2014 Issue	KIA	0	17,725	27,282	4,406	54,871	8,505
Totals		607,500	468,081	595,782	433,685	609,871	414,012
Total P&I		\$1,07	5,581	\$1,02	9,467	\$1,02	23,883

V. EXISTING SHORT-TERM INDEBTEDNESS - N/A

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

Lender or Lesser	Date of Issue (Month & Year)	Principal Balance	Purpose (Water and/ or Sewer)	Payment Date	Principal & Interest Payment (P&I)	Date to Be Paid In <u>Full</u>
			- <u></u>		<u>-</u>	
					·	

VI. LAND AND RIGHTS - EXISTING SYSTEM(S)

Number of Treatment Plant Sites:	Water	1	Sewer	N/A
Number of Storage Tank Sites:	Water	13	Sewer	"
Number of Pump Stations:	Water	17	Sewer	"
Total Acreage:	Water	120	Sewer	"
Purchase Price:	Water	\$ 376,348	Sewer	"

VII. NUMBER OF EXISTING USERS

	Water	Sewer
Residential (In Town)*		N/A
Residential (Out of Town)*	6,575	"
Non-Residential (In Town)		**
Non-Residential (Out of Town)	273	
Total	6,848	**
Number to Total Potential Users Living in the Service Area		"

*Note: <u>Residential Users</u>: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residence.

2014042\Summary Addendum

VIII. <u>CURRENT WATER AND SEWER CONNECTION FEES FOR EACH SIZE WATER</u> <u>METER CONNECTION</u>

Meter Size	Water Connection Fee	Sewer Connection Fee
5/8" x 3/4"	\$ 750.00	\$ N/A
Larger Meters	Actual Cost	\$

IX. <u>SEWER RATES - EXISTING SYSTEM</u> – N/A

Percentage of Water Bill	%	Minimum Charge	\$
Other: (If Charge Not Based	on Water Bi	:11)	

Date This Rate Went Into Effect

X. WATER RATES - EXISTING SYSTEM

Existing Rate Schedule:

Meter Size: <u>5/8" x 3/4"</u>

First	2,000	Gallons @	\$ 17.21	Minimum bill.
Next	8,000	Gallons @	\$ 4.71	per 1,000 Gallons.
Next	10,000	Gallons @	\$ 3.93	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.39	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.06	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 2.96	per 1,000 Gallons.
Date Thi	s Rate Went Into	Effect Nover	nber 5, 2010	

Meter Size: <u>1"</u>

First	5,000	Gallons @	\$ 31.34	Minimum bill.
Next	5,000	Gallons @	\$ 4.71	per 1,000 Gallons.
Next	10,000	Gallons @	\$ 3.93	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.39	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.06	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 2.96	per 1,000 Gallons.
Date This	s Rate Went Into	Effect Nover	nber 5, 2010	

Meter Size: <u>1.5</u>"

First	10,000	Gallons @	\$ 54.89	Minimum bill.
Next	10,000	Gallons @	\$ 3.93	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.39	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.06	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 2.96	per 1,000 Gallons.
Date Thi	s Rate Went Into	Effect Nover	nber 5, 2010	

Meter Size: <u>2</u>"

First	16,000	Gallons @	\$ 78.47	Minimum bill.
Next	4,000	Gallons @	\$ 3.93	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.39	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.06	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 2.96	per 1,000 Gallons.
Date Thi	s Rate Went Into	Effect Nover	nber 5, 2010	

Wholesale Rate.....\$2.14 per 1,000 Gallons.

1	For Perio	od_	N	N/A	to		N/A	<u>.</u>	
All									
Meter									
<u>Sizes</u>	Mon	thly	Sewer Usa	ge	<u>Average</u>	Resid	lential	Non-Res	idential
						No. of Users	Usage (1000)	No. of Users	Usage (1000)
	0	-	2,000	Gal.	1,000		(1000)		(
	2,000	-	3,000	Gal.	2,500			1	
	3,000	-	4,000	Gal.	3,500				
	4,000	-	5,000	Gal.	4,500				
	5,000	-	6,000	Gal.	5,500				
	6,000	-	7,000	Gal.	6,500				
	7,000	-	8,000	Gal.	7,500				
	8,000	-	9,000	Gal.	8,500				
	9,000	-	10,000	Gal.	9,500				
	10,000	-	11,000	Gal.	10,500				
	11,000	-	12,000	Gal.	11,500				
	12,000	-	13,000	Gal.	12,500				
	13,000	-	14,000	Gal.	13,500				
	14,000	-	15,000	Gal.	14,500				
	15,000	-	16,000	Gal.	15,500				
	16,000	-	17,000	Gal.	16,500				
	17,000	-	18,000	Gal.	17,500				
	18,000	-	19,000	Gal.	18,500				
	19,000	-	20,000	Gal.	19,500				
		-		Gal.					
		-		Gal.					
		- 1		Gal.					
		8			Total	()	()	()	$\left(\right)$
				Avera	ge Usage		()	18	$\left(\right)$

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

XII. <u>ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD</u> For Period July 1, 2014 to June 30, 2015

All Meter Sizes

Monthly Water Usage			Average Residential			Non-Residential		
Usage	e Bi	racket	Unit	Per Usage Bracket	No. of Users	Annual Usage (1,000)'s	No. of Users	Annual Usage (1,000)'s
0	-	2,000	Gallons	877	1,945	21,133.5	140	814.8
2,000	-	10,000	Gallons	4,659	4,096	228,731.0	66	3,981.2
10,000	-	20,000	Gallons	12,241	398	58,033.7	23	3,806.9
20,000	-	50,000	Gallons	29,725	112	37,196.3	22	10,602.0
50,000	-	100,000	Gallons	76,665	16	18,522.9	13	8,156.4
100,000	-	Over	Gallons	298,526	8	17,281.3	9	43,618.1
				Subtotal	6,575	380,898.7	273	70,979.4

XIII. FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM - N/A

A. Sewage Treatment:

1.	Туре		
2.	Method of Sludge Disposal		
3.	Cost per 1,000 gallons if sew	age treatment is co	ontracted:
B. Treat	ment Capacity of Sewage Tree	atment Plant	
C. Type	of Sewage Collector System (1	Describe)	
E. Sewa	ber and Capacity of Sewage L ge Collection System:		
Lin 10'	eal Feet of Collector Lines, by , 12",		Larger
Numbe Numbe Numbe	ND RIGHTS - PROPOSED S er of Treatment Plant Sites er of Pump Sites er of Other Sites creage		- N/A
Purcha	se Price	\$	

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.

Green River Valley Water District owns and operates a water treatment plant and potable water distribution system in Hart County, Kentucky. The capacity of the WTP is currently 6.0 MGD and was previously improved and expanded in 1979, 1995, 2003, and 2009. In July 2014, which was the month that exhibited the highest demand, the average daily demand was 4.3 MGD, or roughly 72% of the design capacity. GRVWD currently maintains approximately 760 miles of water lines ranging in size from 2" through 20", 13 storage tanks with a total combined storage volume of 3,457,000 gallons, and 17 booster pump stations.

The existing WTP implements a conventional treatment process and raw water is obtained from two independent sources. The first raw water intake is a concrete tower type located on Green River. The second is a gravity feed intake located at Rio Verde Spring. Green River can easily provide all the raw water needed by the Water District, but the quality is less pristine than that provided by Rio Verde Spring. The spring is a limited supply of raw water that can sustain a flow of roughly 3.5 MGD during dry periods.

Extensions into unserved areas and new customer additions are not included in this project.

B. Water Storage:

Type: Ground Storage Tank Con	ncrete Clearwell	Elevated Tank
Standpipe		Other
Number of Storage Structures	1 Proposed Clea	arwell
Total Storage Volume Capacity	1,200,000 gallons	

C. Water Distribution System:

Pipe Material Ductile In			
Lineal Feet of Pipe: 2"	Diameter	3"	
4"		6"	
8"	100	10"	100
12"	M	16"	500
20"		24"	800
Number and Capacity of	Pump Station(s) M	odify the exis	sting high service
pump stations for a comb	ined capacity of 14.0	mgd	

XVI. LAND AND RIGHTS - PROPOSED WATER SYSTEM

Number of Treatment Plant Sites	1	
Number of Storage Tank Sites	0	
Number of Pump Stations	1	
Total Acreage	0	(No additional land needed)
Purchase Price	\$ 0.00	

XVII. NUMBER OF NEW SEWER USERS – N/A

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

*Note: <u>Residential Users</u>: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.

XVIII. <u>PROPOSED SEWER CONNECTION FEES FOR EACH SIZE WATER METER</u> <u>CONNECTION</u> – N/A

Meter Size	Connection Fee
5/8" x 3/4"	\$
1-Inch	\$
1-1/2 Inch	\$
2-Inch	\$
3-Inch	\$
4-Inch	\$
5-Inch	\$
6-Inch	\$

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

XX. <u>PROPOSED WATER CONNECTION FEES FOR EACH SIZE WATER METER</u> <u>CONNECTION</u>

Meter Size	Connection Fee			
5/8" x 3/4"	\$ 750.00			
Larger Meters	\$ Actual Cost			

XXI. <u>SEWER RATES – PROPOSED</u> – N/A

A. Proposed Rate Schedule without RUS Grant:

 Percentage of Water Bill
 % Minimum Charge
 N/A

 Other: (If Charge Not Based on Water Bill)

Proposed Rate Schedule: (Without RUS Grant)

First	Gallons @ \$	Minim	um.
Next	Gallons @ \$	per 1,0	00 Gallons.
Next	Gallons @ \$	per 1,0	00 Gallons.
Next	Gallons @ \$	per 1,0	00 Gallons.
Next	Gallons @ \$	per 1,0	00 Gallons.
Next	Gallons @ \$	per 1,0	00 Gallons.
All Over	Gallons @ \$	per 1,0	00 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:

Percentage of Water Bill	% Minimum Charge	\$ N/A
Other: (If Charge Not Based on W	ater Bill)	

Proposed Rate Schedule: (With 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.

If more than one rate, use additional sheets.

XXII. WATER RATES - PROPOSED

A. Proposed Rate Schedule Without RUS Grant: (8.5% Increase)

Meter Size:	<u>5/8" x 3/4"</u>			
First	2,000	Gallons @	\$ 18.68	Minimum bill.
Next	8,000	Gallons @	\$ 5.11	per 1,000 Gallons.
Next	10,000	Gallons @	\$ 4.27	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.68	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.32	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.21	per 1,000 Gallons.
Meter Size:	"			
First	5,000	Gallons @	\$ 34.01	Minimum bill.
Next	5,000	Gallons @	\$ 5.11	per 1,000 Gallons.
Next	10,000	Gallons @	\$ 4.27	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.68	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.32	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.21	per 1,000 Gallons.
Meter Size:	1.5"			
First	10,000	Gallons @	\$ 59.56	Minimum bill.
Next	10,000	Gallons @	\$ 4.27	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.68	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.32	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.21	per 1,000 Gallons.
Meter Size:	2"			
First	16,000	Gallons @	\$ 85.18	Minimum bill.
Next	4,000	Gallons @	\$ 4.27	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.68	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.32	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.21	per 1,000 Gallons.

Wholesale Rate (28.5% Increase)\$2.75 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).

First	2,000	Gallons @	\$ 18.88	Minimum bill.
Next	8,000	Gallons @	\$ 5.17	per 1,000 Gallons.
Next	10,000	Gallons @	\$ 4.31	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.72	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.36	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.25	per 1,000 Gallons.
Meter Size:	1"			
First	5,000	Gallons @	\$ 34.39	Minimum bill.
Next	5,000	Gallons @	\$ 5.17	per 1,000 Gallons.
Next	10,000	Gallons @	\$ 4.31	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.72	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.36	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.25	per 1,000 Gallons.
Meter Size:	1.5"			
First	10,000	Gallons @	\$ 60.24	Minimum bill.
Next	10,000	Gallons @	\$ 4.31	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.72	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.36	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.25	per 1,000 Gallons.
Meter Size:	2"			
First	16,000	Gallons @	\$ 86.10	Minimum bill.
Next	4,000	Gallons @	\$ 4.31	per 1,000 Gallons.
Next	30,000	Gallons @	\$ 3.72	per 1,000 Gallons.
Next	50,000	Gallons @	\$ 3.36	per 1,000 Gallons.
Over	100,000	Gallons @	\$ 3.25	per 1,000 Gallons.

B. Recommended Rate Schedule with RUS Grant: (9.7% Increase) Meter Size: 5/8" x 3/4"

Wholesale Rate (14.5% Increase)\$2.45 per 1,000 Gallons.

Meter Size*	Monthly Sewe		Sewer L	lsage	Average Average Rate	Residential			Non-Residential			
							No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0	-	2,000	Gal.	1,000							
	2,000	-	3,000	Gal.	2,500							
	3,000	-	4,000	Gal.	3,500							
	4,000	-	5,000	Gal.	4,500							
	5,000	-	6,000	Gal.	5,500							
	6,000	-	7,000	Gal.	6,500							
5/8 x 3/4	7,000	-	8,000	Gal.	7,500							
Inch	8,000	-	9,000	Gal.	8,500							
	9,000	-	10,000	Gal.	9,500							
	10,000	-	11,000	Gal.	10,500	3						
	11,000	-	12,000	Gal.	11,500							
	12,000	-	13,000	Gal.	12,500	Ti						
	13,000	-	14,000	Gal.	13,500							
	14,000		15,000	Gal.	14,500							
	15,000		16,000	Gal.	15,500	2						
	16,000		17,000	Gal.	16,500							
	17,000		18,000	Gal.	17,500							
	18,000		19,000	Gal.	18,500							
	19,000		20,000	Gal.	19,500	2				-		
		-		Gal.								
2		-		Gal.								
		_		Gal.								
2					Subtotal		()	()	()	$\left(\right)$	()	()
			Averag	e Mon	thly Rate	()						
			Average	Mont	hly Usage	14		()			()	10.

XXIII. FORECAST OF SEWER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS - N/A

- * Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.
- ** Number of users should reflect the actual number of "meter settings".

MULTI-FAMILY AND APARTMENT USER ANALYSIS - N/A

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 of Unit	Number of Units	Number of Meters	Revenue Calculations
		3 <u></u>	
			-

Meter Size*	Monthly Sewer Usage		Jsage	age Average Average Rate		Residential			Non-Residential			
							No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0	-	2,000	Gal.	1,000							
	2,000	-	3,000	Gal.	2,500							
	3,000	-	4,000	Gal.	3,500							
	4,000	-	5,000	Gal.	4,500							
	5,000	-	6,000	Gal.	5,500							
	6,000	-	7,000	Gal.	6,500	1						
5/8 x 3/4	7,000	-	8,000	Gal.	7,500							
Inch	8,000	-	9,000	Gal.	8,500							
	9,000	-	10,000	Gal.	9,500	3			1			
	10,000	-	11,000	Gal.	10,500							
	11,000	-	12,000	Gal.	11,500							
	12,000	-	13,000	Gal.	12,500							
	13,000	-	14,000	Gal.	13,500	3						
	14,000	-	15,000	Gal.	14,500	2						
	15,000	-	16,000	Gal.	15,500							
	16,000	-	17,000	Gal.	16,500							
	17,000	-	18,000	Gal.	17,500							
	18,000	-	19,000	Gal.	18,500	3						
	19,000	-	20,000	Gal.	19,500							
		-		Gal.								
		-		Gal.								
		-		Gal.								
					Subtotal		()	()	()	()	()	()
			Averag	e Mon	thly Rate	()						
			Average	Mont	hly Usage			()	-0	,	()	-

XXIV. FORECAST OF SEWER USAGE - INCOME - NEW USERS - EXTENSION ONLY - N/A

- * Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.
- ** Number of users should reflect the actual number of "meter settings".

MULTI-FAMILY AND APARTMENT USER ANALYSIS - N/A

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 of Unit	Number of Units	Number of Meters	Revenue Calculations
		(a	
·····		2 	
	<u> </u>		
			(<u></u>

XXV. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS (JULY 1, 2014 TO JUNE 30, 2015)

DEMONSTRATION OF MODEL ACCURACY WITH EXISTING RATES

Wa	ter Use	Number	Total Usage	First	Next	Next	Next	Next	Over
(Gal.)	Bills	(M Gal.)	2,000	8,000	10,000	30,000	50,000	100,000
First	2,000	23,340	21,133.5	21,133.5					
Next	8,000	49,152	228,731.0	98,304.0	130,427.0				
Next	10,000	4,776	58,033.7	9,552.0	38,208.0	10,273.7			
Next	30,000	1,344	37,196.3	2,688.0	10,752.0	13,440.0	10,316.3		
Next	50,000	192	18,522.9	384.0	1,536.0	1,920.0	5,760.0	8,922.9	
Over	100,000	96	17,281.3	192.0	768.0	960.0	2,880.0	4,800.0	7,681.3
т	OTALS	78,900	380,898.7	132,253.5	181,691.0	26,593.7	18,956.3	13,722.9	7,681.3

RESIDENTIAL WATER USE TABLE

RESIDENTIAL REVENUE TABLE

	Water Use No. Bills Gallons Existing Rate				g Rates	Revenue	
First	2,000	gallons	78,900	132,253.5	\$17.21	Min. Bill	\$1,357,869
Next	8,000	gallons		181,691.0	4.71	per M Gal.	855,765
Next	10,000	gallons		26,593.7	3.93	per M Gal.	104,513
Next	30,000	gallons		18,956.3	3.39	per M Gal.	64,262
Next	50,000	gallons		13,722.9	3.06	per M Gal.	41,992
Over	100,000	gallons		7,681.3	2.96	per M Gal.	22,737
			ANNUAL R	EVENUE			\$2,447,137

COMMERCIAL WATER USE TABLE

			Total Usage First (M Gal.) 2,000		Number Usage First Next Next		Next 30,000	Next 50,000	Over 100,000
First	2,000	1,680	814.8	814.8					
Next	8,000	792	3,981.2	1,584.0	2,397.2				
Next	10,000	276	3,806.9	552.0	2,208.0	1,046.9			
Next	30,000	264	10,602.0	528.0	2,112.0	2,640.0	5,322.0		
Next	50,000	156	8,156.4	312.0	1,248.0	1,560.0	4,680.0	356.4	
Over	100,000	108	43,618.1	216.0	864.0	1,080.0	3,240.0	5,400.0	32,818.1
т	OTALS	3,276	70,979.4	4,006.8	8,829.2	6,326.9	13,242.0	5,756.4	32,818.1

COMMERCIAL REVENUE TABLE

	Water U	se	No. Bills	M Gallons	Existin	Revenue	
First	2,000	gallons	3,276	4,006.8	\$17.21	Min. Bill	\$56,380
Next	8,000	gallons		8,829.2	4.71	per M Gal.	41,586
Next	10,000	gallons		6,326.9	3.93	per M Gal.	24,865
Next	30,000	gallons	1 1	13,242.0	3.39	per M Gal.	44,890
Next	50,000	gallons		5,756.4	3.06	per M Gal.	17,615
Over	100,000	gallons		32,818.1	2.96	per M Gal.	97,142
			ANNUAL RE	EVENUE			\$282,477

WHOLESALE CUSTOMERS REVENUE TABLE

Water Utility	Water Use (M Gallons)	Exist. Rate	Revenue
City of Bonnieville	15,023.8	\$2.14	\$32,151
Caveland Environmental Authority-Cave City	107,600.9	2.14	230,266
Caveland Environmental Authority-Mammoth Cave	5,115.0	2.14	10,946
Green-Taylor Water District	56,151.9	2.14	120,165
Larue County Water District	88,197.2	2.14	188,742
City of Munfordville	81,076.2	2.14	173,503
City of Horse Cave	232,907.5	2.14	498,422
ANNUAL REVENUE	586,072.4		\$1,254,195

Billing Analysis Projected Revenue From Water Sales	\$3,983,809
Water Sales Reported in Financial Statement	\$3,983,809
Percent Error	0.00%

FORECAST WITH THE PROPOSED RATES

	ter Use Gal.)	Number Bills	Total Usage (M Gal.)	First 2,000	Next 8,000	Next 10,000	Next 30,000	Next 50,000	Over 100,000
First	2,000	23,340	21,133.5	21,133.5					
Next	8,000	49,152	228,731.0	98,304.0	130,427.0				
Next	10,000	4,776	58,033.7	9,552.0	38,208.0	10,273.7			
Next	30,000	1,344	37,196.3	2,688.0	10,752.0	13,440.0	10,316.3		
Next	50,000	192	18,522.9	384.0	1,536.0	1,920.0	5,760.0	8,922.9	
Over	100,000	96	17,281.3	192.0	768.0	960.0	2,880.0	4,800.0	7,681.3
Т	OTALS	78,900	380,898.7	132,253.5	181,691.0	26,593.7	18,956.3	13,722.9	7,681.3

RESIDENTIAL WATER USE TABLE

RESIL	JEN HAL R	EVENUE T	ABLE	Percent Rate	9.7%		
	Water Use		No. Bills	M Gallons	Propos	Revenue	
First	2,000	gallons	78,900	132,253.5	\$18.88	Min. Bill	\$1,489,477
Next	8,000	gallons		181,691.0	5.17	per M Gal.	938,707
Next	10,000	gallons		26,593.7	4.31	per M Gal.	114,643
Next	30,000	gallons		18,956.3	3.72	per M Gal.	70,490
Next	50,000	gallons	8	13,722.9	3.36	per M Gal.	46,062
Over	100,000	gallons		7,681.3	3.25	per M Gal.	24,940
			ANNUAL RI	EVENUE			\$2,684,319

COMMERCIAL WATER USE TABLE

Water Use		Number	Total Usage	First	Next	Next	Next	Next	Over
(Gal.)	Bills	(M Gal.)	2,000	8,000	10,000	30,000	50,000	100,000
First	2,000	1,680	814.8	814.8					
Next	8,000	792	3,981.2	1,584.0	2,397.2				
Next	10,000	276	3,806.9	552.0	2,208.0	1,046.9			
Next	30,000	264	10,602.0	528.0	2,112.0	2,640.0	5,322.0		
Next	50,000	156	8,156.4	312.0	1,248.0	1,560.0	4,680.0	356.4	
Over	100,000	108	43,618.1	216.0	864.0	1,080.0	3,240.0	5,400.0	32,818.1
Т	OTALS	3,276	70,979.4	4,006.8	8,829.2	6,326.9	13,242.0	5,756.4	32,818.1

COMMERCIAL REVENUE TABLE				Percent Rate	9.7%		
	Water U	se	No. Bills	M Gallons	Propose	ed Rates	Revenue
First	2,000	gallons	3,276	4,006.8	\$18.88	Min. Bill	\$61,844
Next	8,000	gallons		8,829.2	5.17	per M Gal.	45,616
Next	10,000	gallons		6,326.9	4.31	per M Gal.	27,275
Next	30,000	gallons		13,242.0	3.72	per M Gal.	49,241
Next	50,000	gallons		5,756.4	3.36	per M Gal.	19,322
Over	100,000	gallons		32,818.1	3.25	per M Gal.	106,557
			ANNUAL RE	EVENUE			\$309,855

Percent Rate Increase

WHOLESALE CUSTOMERS REVENUE				
Water Utility	Water Use (M Gallons)	Exist. Rate (\$/M Gal.)	Revenue	
City of Bonnieville	15,023.8	\$2.45	\$36,808	
Caveland Environmental Authority-Cave City	107,600.9	2.45	263,622	
Caveland Environmental Authority-Mammoth Cave	5,115.0	2.45	12,532	
Green-Taylor Water District	56,151.9	2.45	137,572	
Larue County Water District	88,197.2	2.45	216,083	
City of Munfordville	81,076.2	2.45	198,637	
City of Horse Cave	232,907.5	2.45	570,623	
ANNUAL REVENUE	586,072.4		\$1,435,877	

Estimated Revenue Generated from Proposed Rates	\$4,430,052
Revenue From Existing Rates	\$3,983,809
Additional Revenue	\$446,242

MULTI-FAMILY AND APARTMENT USER ANALYSIS - N/A

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 of Unit	Number of Units	Number of Meters	Revenue Calculations
		_ ,	
3 		-	

Meter Size*	Monthly Water Usage		Average A	Average Rate	Residential N			Nor	Non-Residential			
							No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0	-	2,000	Gal.	1,000							
	2,000	-	3,000	Gal.	2,500							
	3,000	-	4,000	Gal.	3,500							
	4,000	-	5,000	Gal.	4,500							
	5,000	-	6,000	Gal.	5,500							
	6,000	-	7,000	Gal.	6,500							
5/8 x 3/4	7,000	-	8,000	Gal.	7,500							
Inch	8,000	-	9,000	Gal.	8,500							
	9,000	-	10,000	Gal.	9,500							
	10,000	-	11,000	Gal.	10,500							
	11,000	-	12,000	Gal.	11,500							
	12,000	-	13,000	Gal.	12,500							
	13,000	-	14,000	Gal.	13,500							
	14,000	-	15,000	Gal.	14,500							
	15,000	-	16,000	Gal.	15,500							
	16,000	-	17,000	Gal.	16,500							
	17,000	-	18,000	Gal.	17,500							
	18,000	-	19,000	Gal.	18,500							
	19,000	-	20,000	Gal.	19,500							
		-		Gal.								
		-		Gal.								
		-		Gal.								
			-		Subtotal							
					onthly Rate_							
			Avera	ge Mon	thly Usage							

XXVI. FORECAST OF WATER USAGE - INCOME - NEW USERS - EXTENSION ONLY - NO NEW USERS

- * Breakdown of meter size usage is <u>not</u> required unless different water rates are charged based on size of water meter.
- ** Number of users should reflect the actual number of "meter settings".

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 of Unit	Number of Units	Number of Meters	Revenue Calculations
<u>.</u>			
<u></u>	· · · · · · · · · · · · · · · · · · ·		
		3-11-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	

XXVII. <u>CURRENT OPERATING BUDGET (SEWER SYSTEM</u> – N/A (As of the last full operating year.)

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	\$

XXVI	II. <u>PROPOSED OPERATING BUDGET (SEWER SYSTEM</u>	
	(1st Full Year of Operation)	Year Ending <u>N/A</u>
А.	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 pres	cribed by National Association of
	Regulatory Utility Commissioners)	5
	Operation Expense	\$
	Maintenance Expense	
	Customer Accounts Expense	
	Administrative and General Expense	
	Total Operating and Maintenance Expenses	\$
	Net Operating Income	\$
С.	Non-Operating Income:	
	Interest on Deposits	\$
	Other (Identify)	
	Total Non-Operating Income	\$
D.	Net Income	\$
<i>E</i> .	Debt Repayment:	
	RUS Interest	\$
	RUS Principal	
	Non-RUS Interest	
	Non-RUS Principal	
	Total Debt Repayment	\$
<i>F</i> .	Balance Available for Coverage	

XXIX.	<u>PROPOSED</u> OPERATING BUDGET (SEWER SYSTEM) - Full Year of Operation)	<u>New Users - Extension Only</u> (1st Year Ending <u>N/A</u>
А.	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 press Regulatory Utility Commissioners)	cribed by National Association of
	Operation Expense	\$
	Maintenance Expense	
	Customer Accounts Expense	
	Administrative and General Expense	
	Total Operating and Maintenance Expenses	\$
	Net Operating Income	\$
С.	Non-Operating Income:	
	Interest on Deposits	\$
	Other (Identify)	
	Total Non-Operating Income	\$
D.	Net Income	_\$
<i>E</i> .	Debt Repayment:	
	RUS Interest	\$
	RUS Principal	
	Non-RUS Interest	
	Non-RUS Principal	
	Total Debt Repayment	\$
F.	Balance Available for Coverage	\$

XXX.	<u>CURRENT OPERATING BUDGET (WATER SYSTEM)</u> (As of the last full operating year.)	Ending June 30, 2015
A.	Operating Income:	0
	Metered Water Sales, Residential	\$ 2,447,137
	Metered Water Sales, Commercial	282,477
	Wholesale Water Sales	1,254,195
	Other; Cash Water Sales	245
	Revenue from Maintenance & Contract Work	81,490
	Forfeited Discounts	66,033
	Miscellaneous	82,021
	Total Operating Income	\$ 4,213,598
в	Operation and Maintenance Expenses:	
D.	Source of Supply & Pumping	
	Operations	\$ 596,531
	Maintenance	5,906
	Water Treatment Expense	
	Operations	375,570
	Transmission & Distribution	
	Operations	83,716
	Maintenance	893,764
	Customer Accounts Expense	300,187
	Administrative and General Expenses	479,163
	Taxes Other Than Income Taxes	75,022
	Total O&M Expenses	\$ 2,809,859
С	Non-Operating Income (Expense):	
с.	Gain on Sale of Equipment	\$ 0
	Interest Income	942
	Amortization of Premium on Bond Issue	50,776
	Total Non-Operating Income	\$ 51,718
D.	Net Income	\$ 1,455,457
E.	Debt Repayment:	
	RUS Interest	\$ 331,443
	RUS Principal	172,500
	Non-RUS Interest	136,638
	Non-RUS Principal	435,000
	Total Debt Repayment	\$ 1,075,581
F. Ba	ance Available for Coverage	\$ 379,876

XXXI. PROPOSED OPERATING BUDGET (WATER SYSTEM) EXISTING SYS	STEM AND NEW USERS
(1st Full Year of Operation)	Year Ending 2019
A. Operating Income:	
Metered Water Sales, Residential	\$ 2,684,319
Metered Water Sales, Commercial	309,855
Wholesale Water Sales	1,435,877
Other; Cash Water Sales	167
Revenue from Maintenance & Contract Work	84,053
Forfeited Discounts	69,669
Miscellaneous	53,110
Total Operating Income	\$ 4,637,052
B. Operation and Maintenance Expenses:	
Source of Supply & Pumping	
Operations	\$ 687,376
Maintenance	6,805
Water Treatment Expense	
Operations	432,765
Transmission & Distribution	06 465
Operations	96,465
Maintenance	1,029,875
Customer Accounts Expense	345,902
Administrative and General Expenses	552,134
Taxes Other Than Income Taxes	86,447
New Project O&M Increase Short Lived Assets - Reserve	109,026
Total O&M Expenses	\$ 3,542,123
C. Non-Operating Income (Expense):	
Gain on Sale of Equipment	\$ 2,850
Interest Income	3,180
Amortization of Premium on Bond Issue	42,241
Total Non-Operating Income	\$ 48,272
D. Net Income	\$ 1,143,201
E. Debt Repayment:	
RUS Interest	\$ 403,624
RUS Principal	304,442
Non-RUS Interest	70,525
Non-RUS Principal	260,699
Total Debt Repayment	\$ 1,039,290
F. Balance Available for Coverage	\$ 103,911

XXXII. <u>PROPOSED OPERATING BUDGET (WATER SYSTEM) NEW USERS EXTENSION ONLY</u> N/A (1st Full Year of Operation) Year Ending

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 Association of Regulatory Utility Commissioners)

Source of Supply Expense Pumping Expense Water Treatment Expense Transmission and Distribution Expense Customer Accounts Expense Capital Improvements 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	\$

XXXIII. ESTIMATED PROJECT COST – SEWER – N/A (Round to nearest \$100)

	Collection	TREATMENT	TOTAL
Development			N/A
Land & Rights			
Legal			
Engineering			
Interest			
Contingencies			
Initial Operating and Maintenance			
Other			
TOTAL			

XXXIV. ESTIMATED PROJECT FUNDING - SEWER - N/A

	COLLECTION	TREATMENT	TOTAL
Applicant - User Contribution Fees			N/A
Other - Applicant Contribution			
RUS Loan			
RUS Grant			
ARC Grant (If applicable)			
CDBG (If applicable)			
Other (Specify)			
Other (Specify)			

XXXV. ESTIMATED PROJECT COST - WATER

Construction Cost	\$ 6,335,000
Contingency	560,000
Engineering Design	420,000
Construction Observation	282,000
Preliminary Engineering Report	20,000
Geotechnical Exploration	25,000
Environmental Survey	20,000
Surveying & Mapping	15,000
Bond Counsel	30,000
Local Counsel	13,000
Interim Interest	280,000
TOTAL	8,000,000

XXXVI. PROPOSED PROJECT FUNDING

Rural Development Grant	\$ 2,400,000
Rural Development Loan	\$ 5,600,000
TOTAL	\$ 8,000,000

Green River Valley Water District May 2016

Type of Reserve	User Description	Replacement Cost	Reserve on Hand	Annual Reserve	
1-5 Years	5 - Trucks	\$175,000	\$0	\$35,000	
1-5 Years	Lab Equipment	\$15,000	\$0	\$3,000	
1-5 Years	9 - Computers	\$10,800	\$0	\$2,160	
Subtotal 1-5 Years				\$40,160	
5-10 Years	1 - Trackhoe	\$75,000	\$0	\$7,500	
5-10 Years	1 - Dump Trucks	\$50,000	\$0	\$5,000	
5-10 Years	WTP Equipment	\$20,000	\$0	\$2,000	
5-10 Years	3,600 - Meters	\$540,000	\$0	\$54,000	
Subtotal 5-10 Years				\$68,500	
10-15 Years	13 - Tank Rehab	\$1,300,000	\$0	\$86,667	
Subtotal 10-15 Years				\$86,667	

EXHIBIT 2B

COST OF SERVICE STUDY FOR RETAIL AND WHOLESALE WATER RATES

GREEN RIVER VALLEY WATER DISTRICT

Prepared by Alan H. Vilines, P.E.



Kentucky Rural Water Association

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HISTORICAL FINANCIAL INFORMATION AND PROJECTIONS

Green River Valley Water District

					F	Projected
	<u>2016</u>	<u>2017</u>	<u>2018</u>	Annual Growth Rate		<u>2021</u>
OPERATING REVENUE	GRVWD Fi	nancial Statemen	t Information	Calculated Projection		
Metered Water Sales						
Residential	\$2,416,031	\$2,479,204	\$2,562,441	w/ prop. Rates	\$	3,186,966
Commercial	267,775	246,828	236,949	w/ prop. Rates		298,480
	\$2,683,806	\$2,726,032	\$2,799,390		\$	3,485,446
Wholesale Water Sales:	* -	^	^			
Horse Cave	\$487,690	\$551,373	\$578,805			
CEA Cave City	170,608	135,038	255,460			
Munfordville	180,695	195,926	212,890			
Larue County	188,516	193,127	197,387			
Bonnieville	28,750	32,114	36,667			
Green-Taylor	143,168	67,709	129,297			
CEA	21,384	20,242	24,916	Laura Datas		4 74 4 007
	\$1,220,811	\$1,195,529	\$1,435,422	w/ prop. Rates	\$	1,714,997
Other Operating Revenues:						
Cash Water Sales	\$479	\$226	\$284	3 Yr. Avg.	\$	330
Rev. from Maint. & Contract Work	89,765	97,374	71,881	3 Yr. Avg.		86,340
Forfeited Discounts	58,719	63,449	65,772	3 Yr. Avg.		62,647
Miscellaneous	61,925	29,453	25,724	3 Yr. Avg.		39,034
	\$210,888	\$190,502	\$163,661		\$	188,350
TOTAL OPERATING REVENUES	\$4,115,505	\$4,112,063	\$4,398,473		\$	5,388,793
OPERATING EXPENSES						
Source of Supply and Pumping Expenses						
Operations	\$632,323	\$562,722	\$775,790	2.79%	\$	842,625
Maintenance	9,216			2.79%		-
Water Treatment Expenses						
Operations	385,233	434,487	387,562	2.79%		420,951
Transmission and Distribution						
Operations	82,404	80,630	83,322	2.79% *		123,084
Maintenance	934,788	887,585	930,245	2.79% *		1,070,541
Customer Accounts Expenses	312,621	320,784	297,563	2.79%		323,199
Administrative and General Expenses	554,952	542,449	597,434	2.79%		648,904
Taxes Other Than Income	85,473	87,209	92,506	2.79% *		106,363
New Projected O&M at WTP						115,195
Short Lived Assets						462,827
TOTAL OPERATING EXPENSES	\$2,997,010	\$2,915,866	\$3,164,422	2.79%	\$	4,113,687
NONOPERATING REVENUE & (EXPENSE	S)					
Gain on Sales of Equipment	, 0	15,029	0	3 Yr. Avg.	\$	5,010
Interest Income	7,497	7,611	5,791	3 Yr. Avg.	\$	6,966
Amortization of Premium on Bond Issue	44,849	38,602	32,043	-		32,043
Interest Penalty on Early Retir. of Bonds	0	0	0			-
TOTAL NONOPER. REV. & (EXPEN)	\$52,346	\$61,242	\$37,834			\$44,019
NET INCOME (LOSS)	\$1,170,841	\$1,257,439	\$1,271,885		\$	1,319,125
DEBT REPAYMENT						
RUS Interest	\$326,476	\$319,542	\$312,359			288,762
RUS Principal	177,000	183,500	190,000			216,000
Non-RUS Interest	118,745	105,189	88,387			56,555
Non-RUS Principal	483,496	451,593	432,056			278,465
Proposed Project Principal & Interest	0	0	0			285,480
TOTAL DEBT REPAYMENT	\$1,105,717	\$1,059,824	\$1,022,802		\$	1,125,262
BALANCE AVAILABLE FOR COVERAGE	\$65,124	\$197,615	\$249,083		\$	193,862

Replacement Reserves - Short Lived Assets									
Type of Reserve	User Description	User Description Replacement Reserve on Cost Hand		User Description 1		User Description		Ann	ual Reserve
1-5 Years	15 - Trucks	\$	450,000	-	\$	90,000			
1-5 Years	Lab Equipment		50,000	-		10,000			
1-5 Years	9 - Computers		10,800	-		2,160			
1-5 Years	3,600 Meters		540,000		108,000				
Subtotal 1-5 Years					\$	210,160			
5-10 Years	1 - Trackhoe	\$	250,000	-		25,000			
5-10 Years	2 - Backhoes		320,000	-		32,000			
5-10 Years	3 - Dump Trucks		265,000	-		26,500			
5-10 Years	WTP Equipment		20,000	-		2,000			
5-10 Years	3,600 - Meters		540,000	-		54,000			
5-10 Years	Skid Steer		45,000	-		4,500			
Subtotal 5-10 Years					\$	144,000			
10-15 Years	13 - Tank Rehab	\$	1,300,000	-		86,667			
10-15 Years	Pumping Equipment		160,000	-		10,667			
10-15 Years	Telemetry		170,000	-		11,333			
Subtotal 10-15 Years					\$	108,667			
Replacement Reserve -	Short Lived Assets				\$	462,827			

Green River Valley Water District

SUMMARY OF DEBT SERVICE AND COVERAGE

Green River Valley Water District

		Paym	ent	s Required	in 2	021
		Principal	_	Interest		Total
1996 A - RD		31,000		28,080		59,080
1996 B - RD		18,000		17,393		35,393
1996 C - RD		7,000		6,638		13,638
2004 - RD		96,000		176,400		272,400
2010 - RD		64,000		60,251		124,251
Subtotal RUS		216,000		288,762		504,762
2013 - KRWFC		215,000		49,410		264,410
2014 - KIA		63,465		7,145	_	70,610
Subtotal Other		278,465		56,555		335,020
Proposed 2019 - RD *		113,980		171,500		285,480
Total Principal & Interest	\$	608,445	\$	516,817	\$	1,125,262
Coverage:	_					
Existing RD Loans					\$	100,952
Existing KRWFC						52,882
Existing KIA Loan						7,061
Proposed RD Loan						28,548
Total Coverage					\$	189,443
Total Debt Service with Cove	rage				\$	1,314,706

* Based on \$10.0 million project with \$3.0 million grant. \$5.6 million loan at 2.25% and \$1.4 million loan at 3.25%.

WHOLESALE / RETAIL EXPENSE ALLOCATIONS AND WHOLESALE RATE COMPUTATION

Green River Valley Water District

		Allocation	<u>Wholesale</u>	<u>Retail</u>
	<u>Total</u>	Factor	Allocation	Allocation
Salaries & Wages				
Customer Accts.	\$ 167,910		0	167,910
Water Supply & Treatment	419,910	0.5089	213,710	206,201
Trans./Distribution	462,618	0.1802	83,383	379,235
Admin & General	354,548	0.1802	63,904	290,644
Employee Benefits + Taxes				
Customer Accts.	19,291		0	19,291
Water Supply & Treatment	47,626	0.5089	24,239	23,387
Trans./Distribution	67,869	0.1802	12,233	55,637
Admin & General	30,955	0.1802	5,579	25,376
Salaries - Officers (A & G)	16,727	0.5089	8,513	8,214
Purchased Water	16,727	0.5089	8,513	8,214
Purchased Power				
Water Supply & Treatment	361,870	0.5089	184,171	177,700
Trans./Distribution	90,500	0.5956	53,899	36,601
Admin & General	19,450	0.1802	3,506	15,944
Chemicals	192,447	0.5089	97,944	94,503
Materials & Supplies				
Customer Accts.	61,888		0	61,888
Water Supply & Treatment	36,756	0.5089	18,707	18,050
Trans./Distribution	213,087	0.1802	38,407	174,680
Admin & General	24,488	0.1802	4,414	20,075
Contr. Services - Acct. & Legal	31,702	0.5956	18,880	12,821
Contr. Services - Cust. Accts.	2,167		0	2,167
Contr. Services - Other				
Water Supply & Treatment	228,222	0.5089	116,152	112,071
Trans./Distribution	157,641	0.1802	28,413	129,227
Admin & General	45,795	0.1802	8,254	37,541
Transportation Expense				
Customer Accts.	46,782		0	46,782
Trans./Distribution	115,047	0.1802	20,736	94,311
Admin & General	4,527	0.5956	2,696	1,831
Insurance - Workers Comp & Empl.				
Customer Accts.	26,631		0	26,631
Water Supply & Treatment	59,898	0.5089	30,485	29,413
Trans./Distribution	61,168	0.1802	11,025	50,143
Admin & General	56,233	0.1802	10,136	46,098

Employee Flex Reimbursements				
Customer Accts.	7,063		0	7,063
Water Supply & Treatment	15,887	0.5089	8,086	7,802
Trans./Distribution	16,224	0.1802	2,924	13,300
Admin & General	14,915	0.1802	2,688	12,227
Property & Other Insurance				
Water Supply & Treatment	32,640	0.5089	16,612	16,028
Trans./Distribution	47,580	0.5956	28,337	19,243
Admin & General	5,240	0.5956	3,121	2,119
Bad Debt Expense	14,610		0	14,610
Misc. Expense				
Customer Accts.	4,919		0	4,919
Admin & General	51,301	0.5956	30,553	20,748
Reserve for Short Term Assets				
Customer	212,056		0	212,056
Water Supply & Treatment	12,000	0.5089	6,107	5,893
Trans./Distribution	231,767	0.5956	138,033	93,733
Admin & General	7,004	0.1802	1,262	5,742
Total Operating Expenses	4,113,687		1,305,622	2,808,065
Debt Service & Coverage				
Water Supply & Treatment	564,875	0.5089	287,488	277,387
Trans. / Distribution	654,811	0.1802	118,024	536,787
Admin & General	6,054	0.1802	1,091	4,963
Customer	88,966			88,966
Total Expense Allocations	5,428,393		1,712,225	3,716,168
Wholesale Gallons Sold (x 1,000)			669,921	
Wholesale Rate per 1,000 Gallons			\$2.56	

Table ASYSTEM INFORMATIONGreen River Valley Water District

Schedule of All Mains and Jointly Used Mains									
		Total System		Joint	Use				
<u>Main</u>	Length	Miles of	<u>Inch -</u>	<u>Miles of</u>	Inch -				
<u>Size</u>	<u>(feet)</u>	<u>Mains</u>	<u>Miles</u>	<u>Mains</u>	<u>Miles</u>				
16	101,904	19.3	308.80	18.4	293.86				
12	125,136	23.7	284.40	21.5	257.90				
10	147,840	28.0	280.00	19.0	189.50				
8	199,056	37.7	301.60	25.5	203.70				
6	719,294	136.2	817.38	23.2	139.23				
4	1,038,576	196.7	786.80	8.2	32.97				
3	1,554,960	294.5	883.50						
2	76,560	14.5	29.00						
Totals	3,963,326	750.6	3,691.48	115.7	1,117.17				

Retail Sales 454,792.0 Bulk Loading Sta. 125.0 Wholesale Sales 669,920.7 Total Water Sold 1,124,837.7 Water Used at WTP 27,764.3 1.92% System Flushing 2,000.0 0.14%	Water Purchased, Sold and Used							
Retail Sales 454,792.0 Bulk Loading Sta. 125.0 Wholesale Sales 669,920.7 Total Water Sold 1,124,837.7 Water Used at WTP 27,764.3 1.92% System Flushing 2,000.0 0.14%			<u>Percent</u>					
Bulk Loading Sta.125.0Wholesale Sales669,920.7Total Water Sold1,124,837.7Water Used at WTP27,764.31.92%System Flushing2,000.00.14%	Water Produced	1,448,308.0						
Wholesale Sales 669,920.7 Total Water Sold 1,124,837.7 Water Used at WTP 27,764.3 1.92% System Flushing 2,000.0 0.14%	Retail Sales	454,792.0						
Total Water Sold 1,124,837.7 Water Used at WTP 27,764.3 1.92% System Flushing 2,000.0 0.14%	Bulk Loading Sta.	125.0						
Water Used at WTP 27,764.3 1.92% System Flushing 2,000.0 0.14%	Wholesale Sales	669,920.7						
System Flushing 2,000.0 0.14%	Total Water Sold	1,124,837.7						
	Water Used at WTP	27,764.3	1.92%					
Line Losses 278,706.0 19.24%	System Flushing	2,000.0	0.14%					
,	Line Losses	278,706.0	19.24%					
Fire Dept. & Other 15,000.0	Fire Dept. & Other	15,000.0						

Table B WHOLESALE ALLOCATION FACTORS Green River Valley Water District										
					FACTOR					
Line Loss Percentage Plant Use Percentage Line Loss + Plant Use Joint Use Inch-miles Total Inch-Miles Water Sold - Wholesale Water Sold - Total					0.1924 0.0192 0.2116 1,117.17 3,691.48 669,920.73 1,124,837.73					
Production Multiplier	 1		1 0.2116	=	1.2684					
Joint Use Pipeline Ratio			1,117.17 3,691.48	=	0.3026					
Wholesale Share of Line Loss	0.1924	x	0.3026	=	0.0582					
Joint Share Line Loss + Plant Use	0.0582	+	0.0192	=	0.0774					
Wholesale Production Multiplier	 1		1 0.0774	=	1.0839					
Production Allocation Factor			669,920.7 1,124,837.7	=	0.5089					
Pipeline Transmission Factor	669,920.7 1,124,837.7	x	0.3026	=	0.1802					
Use Factor			669,920.7 1,124,837.7	=	0.5956					

Table CALLOCATION OF PLANT VALUE AND DEBT SERVICE - WHOLESALEGreen River Valley Water District

	<u>Total</u> <u>Values</u>	Water Supply <u>& Treatment</u>	<u>Trans. &</u> Distribution	<u>General</u> <u>& Admin.</u>	<u>Customer</u>
Land & Land Rights	157,172	157,172			
L & L Rights Structures & Improvements	86,496	86,496			
L & L Rights Water Treatment	188,386	188,386			
L & L Rights Hydrants	6,900				6,900
Structures & Improvements	3,557,346	3,557,346			
Collecting and Impounding Reservoirs	2,556,206	2,556,206			
River Intakes	495,652	495,652			
Supply Mains	312,627	312,627			
Electric Pumping Equipment	3,989,732	1,196,920	2,792,812		
Water Treatment Equipment	1,362,392	1,362,392			
Distribution Reservoirs & Standpipes	3,108,627		3,108,627		
Trans. & Distribution Mains	19,482,801		19,482,801		
Services	932,772				932,772
Meters	1,697,419				1,697,419
Meter Installations	157,159				157,159
Hydrants	128,124				128,124
Lab Equipment	3,343	3,343			
Structures & Improvements Office Bldg	610,371	61,037	183,111	122,074	244,148
Office Furniture & Equipment	318,466	31,847	95,540	63,693	127,386
Transportation Equipment	662,744		458,336	18,035	186,373
Communication Equipment	191,169	19,117	57,351	38,234	76,468
Subtotals	40,005,904	10,028,540	26,178,578	242,037	3,556,749
Percentages		25.1%	65.4%	0.6%	8.9%
Other Plant	25,564	6,408	16,728	155	2,273
Tools, Shop, & Other Equipment	169,812	42,568	111,120	1,027	15,097
Power Operated Equipment	513,437	128,707	335,977	3,106	45,647
Totals	\$ 40,714,717	\$ 10,206,223	\$ 26,642,402	\$ 246,325	\$ 3,619,767
Plant Value Percentages		25.1%	65.4%	0.6%	8.9%
Allocation of Debt Service:					
Existing Debt Service & Coverage	\$ 1,000,677	\$ 250,846	\$ 654,811	\$ 6,054	\$ 88,966
Proposed Debt Serv. & Cov WTP	314,028	314,028			
Total Debt Service Allocations	\$ 1,314,706	\$ 564,875	\$ 654,811	\$ 6,054	\$ 88,966

Table DALLOCATION OF OPERATION & MAINTENANCE EXPENSE - RETAILGreen River Valley Water District

	<u>Total</u>				<u>Admin. &</u>
	<u>Values</u>	<u>Commodity</u>	<u>Demand</u>	<u>Customer</u>	<u>General</u>
Salaries & Wages	1,043,990		585,436	167,910	290,644
Employee Benefits + Taxes	123,691		79,024	19,291	25,376
Salaries - Officers (A & G)	8,214				8,214
Purchased Water	8,214	8,214			
Purchased Power	230,245		214,301		15,944
Chemicals	94,503	94,503			
Materials & Supplies	274,692		192,729	61,888	20,075
Contr. Services - Acct. & Legal	12,821				12,821
Contr. Services - Cust. Accts.	2,167			2,167	
Contr. Services - Other	278,839		241,298		37,541
Transportation Expense	142,924		94,311	46,782	1,831
Insurance - Workers Comp & Empl.	152,285		79,556	26,631	46,098
Employee Flex Reimbursements	40,391		21,101	7,063	12,227
Property & Other Insurance	37,390		35,271		2,119
Bad Debt Expense	14,610			14,610	
Misc. Expense	25,667			4,919	20,748
Reserve for Short Term Assets	317,423		99,626	212,056	5,742
Totals	2,808,065	102,717	1,642,653	563,317	499,378
Less Admin. & General	499,378				
Total w/o A & G	2,308,687				
Percentages w/o A & G	100.00%	4.45%	71.15%	24.40%	
Allocation of Admin. & General	499,378	22,218	355,312	121,848	
Total O & M Expense Allocations	2,808,065	124,935	1,997,965	685,165	

Table E						
ALLOCATION OF PLANT VALUE AND DEBT SERVICE - RETAIL						
Green River Valley Water District						

	<u>Total</u> Values	C	ommodity	Demand		<u>Customer</u>
		<u></u>		Demana	-	<u>customer</u>
Land & Land Rights	157,172		157,172			
L & L Rights Structures & Improvements	86,496		86,496			
L & L Rights Water Treatment	188,386			188,386		
L & L Rights Hydrants	6,900					6,900
Structures & Improvements	3,557,346			3,557,346		
Collecting and Impounding Reservoirs	2,556,206		2,556,206			
River Intakes	495,652		495,652			
Supply Mains	312,627			312,627		
Electric Pumping Equipment	3,989,732			3,989,732		
Water Treatment Equipment	1,362,392			1,362,392		
Distribution Reservoirs & Standpipes	3,108,627			3,108,627		
Trans. & Distribution Mains	19,482,801			19,482,801		
Services	932,772					932,772
Meters	1,697,419					1,697,419
Meter Installations	157,159					157,159
Hydrants	128,124					128,124
Lab Equipment	3,343		3,343			
Subtotals	38,223,154		3,298,869	32,001,911		2,922,374
Percentages			8.63%	83.72%		7.65%
Structures & Improvements Office Bldg	610,371		52,678	511,026		46,666
Other Plant	25,564		2,206	21,403		1,955
Office Furniture & Equipment	318,466		27,485	266,632		24,349
Transportation Equipment	662,744		57,198	554,875		50,670
Tools, Shop, & Other Equipment	169,812		14,656	142,173		12,983
Power Operated Equipment	513,437		44,312	429,869		39,255
Communication Equipment	191,169		16,499	160,054		14,616
Totals	\$ 40,714,717	\$	3,513,905	\$ 34,087,944	\$	3,112,868
Plant Value Percentages Not Customer			9.35%	90.65%		
Allocation of Debt Service:						
Ex. Retail Debt Service & Coverage	\$ 691,195	\$	56,279	\$ 545,951	\$	88,966
Prop. Retail Debt Serv. & Cov WTP	216,908			\$ 216,908		
Total Debt Service Allocations	\$ 908,103	\$	56,279	\$ 762,859	\$	88,966

Table FSUMMARY OF ALLOCATIONS - RETAILGreen River Valley Water District

	<u>Total</u> <u>Values</u>	<u>Commodity</u>	<u>Demand</u>	<u>Customer</u>
Operation & Maintenance Expenses	2,808,065	124,935	1,997,965	685,165
Debt Service & Coverage	908,103	56,279	762,859	88,966
Total Expenses - Retail	3,716,168	181,213	2,760,824	774,131
Less:				
Cash Water Sales	330	330		
Rev. from Maint. & Contract Work	86,340	86,340		
Forfeited Discounts	62,647			62,647
Miscellaneous Operating Revenue	39,034	39,034		
Non-operating Revenues	44,019	44,019		-
Revenue Required from Retail Rates	3,483,799	11,491	2,760,824	711,484

Table GCALCULATION OF WATER RATES - RETAILGreen River Valley Water District

	Total	First 2,000	Next 8,000	Next 20,000	Over 30,000
Actual Commodity Sales	454,792,000	25,515,900	221,755,500	99,183,500	108,337,100
Commodity Percentages	100.00%	5.61%	48.76%	21.81%	23.82%
Demand Weighting Factor		7.25	1.60	1.25	1.00
Demand Weighted Sales	772,115,550	184,990,275	354,808,800	123,979,375	108,337,100
Demand Percentages		23.96%	45.95%	16.06%	14.03%
Commodity Costs	11,491	645	5,603	2,506	2,737
Demand Costs	2,760,824	661,463	1,268,676	443,308	387,377
Customer Costs	711,484	711,484			
Total Costs	3,483,799	1,373,592	1,274,279	445,814	390,114
No. of Bills or Gals. Sold		81,549	221,756	99,184	108,337
CALCULATED RATES (adjusted per Billing Analysis	to result in require	\$22.00 ed revenue)	\$5.90	\$4.80	\$3.80

EXISTING AND PROPOSED RATES

Green River Valley Water District

r

<u>EXISTING W</u>	/ATER	RATES									
Minimum Bills Based on Meter Size											
				Ga	als. incl'd.	Mi	<u>nimum</u>				
		Meter Size		<u>in l</u>	<u>Minimum</u>	Mor	<u>nthly Bill</u>				
		5/8 x 3/4 in	ch		2,000	\$	17.21				
		1 inch			5,000		31.34				
		1-1/2 inch			10,000		54.89				
		2 inch			16,000		78.47				
		<u>Rates fo</u>	r Water Usa	<u>ge in</u>	Addition t	o Mini	<u>mum</u>				
	<u>No. of</u>	Gallons per N	<u>lonth</u>								
	First	2,000	Gallons @	\$	17.21	L.S. N	1inimum				
	Next		Gallons @		4.71	per 1	,000 Gallons.				
l .	Next	10,000	Gallons @		3.93	per 1	,000 Gallons.				
	Next		Gallons @		3.39	per 1	,000 Gallons.				
	Next		Gallons @			•	,000 Gallons.				
	Over	100,000	Gallons @		2.96	per 1	,000 Gallons.				
	Whole	esale Custom	ers	\$	2.14	per 1	,000 Gallons.				
	Date T	his Rate We	nt Into Effec	t <u>November 5, 2010</u>			<u>per 5, 2010</u>				
PROPOSED	WATE	<u>R RATES</u>									
l		M	inimum Bills	Base	d on Mete	r Size					
				Ga	Gals. incl'd. Minimum						
		<u>Meter Size</u>		<u>in l</u>	<u>Minimum</u>	Mor	<u>nthly Bill</u>				
		5/8 x 3/4 in	ch		2,000	\$	22.00				
		1 inch			5,000		39.70				
		1-1/2 inch			10,000		69.20				
		2 inch			15,000		93.20				
		Rates fo	r Water Usa	<u>ge in</u>	Addition t	o Mini	<u>mum</u>				
	<u>No. of</u>	Gallons per N	<u>lonth</u>								
	First	2,000	Gallons @	\$	22.00	L.S. N	1inimum				
	Next	8,000	Gallons @		5.90	per 1	,000 Gallons.				
	Next	20,000	Gallons @		4.80	per 1	,000 Gallons.				
	Over	30,000	Gallons @		3.80	per 1	,000 Gallons.				
	Whole	esale Custom	ers	\$	2.56	per 1	,000 Gallons.				

BILLING ANALYSIS WITH PROPOSED RATES Green River Valley Water District

XXV. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS (PROPOSED RATES)

5/8 x 3/4" RESIDENTIAL METERS

				FIRST	NEXT	NEXT	ALL OVER	
	USAGE	BILLS	GALLONS	2,000	8,000	20,000	30,000	TOTAL
FIRST	2,000	24,340	23,585,200	23,585,200	-	-	-	23,585,200
NEXT	8,000	46,598	216,059,500	93,196,000	122,863,500	-	-	216,059,500
NEXT	20,000	5,764	89,994,600	11,528,000	46,112,000	32,354,600	-	89,994,600
ALL OVER	30,000	920	53,581,800	1,840,000	7,360,000	18,400,000	25,981,800	53,581,800
_		77,622	383,221,100	130,149,200	176,335,500	50,754,600	25,981,800	383,221,100

REVENUE BY RATE INCREMENT

		BILLS	GALLONS	RATE	REVENUE
FIRST	2,000	77,622	130,149,200	\$ 22.00	\$ 1,707,684
NEXT	8,000		176,335,500	5.90	1,040,379
NEXT	20,000		50,754,600	4.80	243,622
ALL OVER	30,000		25,981,800	3.80	98,731
Т	OTAL	77,622	383,221,100		\$ 3,090,416

5/8 x 3/4" COMMERCIAL METERS

				FIRST	NEXT	NEXT	ALL OVER	
	USAGE	BILLS	GALLONS	2,000	8,000	20,000	30,000	TOTAL
FIRST	2,000	1,325	646,800	646,800	-	-	-	646,800
NEXT	8,000	684	3,543,100	1,368,000	2,175,100	-	-	3,543,100
NEXT	20,000	209	3,569,800	418,000	1,672,000	1,479,800	-	3,569,800
ALL OVER	30,000	72	5,526,600	144,000	576,000	1,440,000	3,366,600	5,526,600
_		2,290	13,286,300	2,576,800	4,423,100	2,919,800	3,366,600	13,286,300

REVENUE BY RATE INCREMENT

		BILLS	GALLONS	RATE	R	EVENUE
FIRST	2,000	2,290	2,576,800	\$ 22.00	\$	50,380
NEXT	8,000		4,423,100	5.90		26,096
NEXT	20,000		2,919,800	4.80		14,015
ALL OVER	30,000		3,366,600	3.80		12,793
Т	OTAL	2,290	13,286,300		\$	103,284

<u>1" RESIDENTIAL METERS</u>

				FIRST	NEXT	NEXT	ALL OVER	
	USAGE	BILLS	GALLONS	5,000	5,000	20,000	30,000	TOTAL
FIRST	5,000	363	871,800	871,800	-	-	-	871,800
NEXT	5,000	182	1,350,300	910,000	440,300	-	-	1,350,300
NEXT	20,000	173	3,276,100	865,000	865,000	1,546,100	-	3,276,100
ALL OVER	30,000	97	10,819,300	485,000	485,000	1,940,000	7,909,300	10,819,300
		815	16,317,500	3,131,800	1,790,300	3,486,100	7,909,300	16,317,500

REVENUE BY RATE INCREMENT

		BILLS	GALLONS	RATE	R	EVENUE
FIRST	5,000	815	3,131,800	\$ 39.70	\$	32,356
NEXT	5,000		1,790,300	5.90		10,563
NEXT	20,000		3,486,100	4.80		16,733
ALL OVER	30,000		7,909,300	3.80		30,055
Т	OTAL	815	16,317,500		\$	89,707

<u>1" COMMERCIAL METERS</u>

				FIRST	NEXT	NEXT	ALL OVER	
	USAGE	BILLS	GALLONS	5,000	5,000	20,000	30,000	TOTAL
FIRST	5,000	241	398,600	398,600	-	-	-	398,600
NEXT	5,000	48	359,400	96,000	263,400	-	-	359,400
NEXT	20,000	69	1,281,600	138,000	552,000	591,600	-	1,281,600
ALL OVER	30,000	128	14,522,100	256,000	1,024,000	2,560,000	10,682,100	14,522,100
_		486	16,561,700	888,600	1,839,400	3,151,600	10,682,100	16,561,700

REVENUE BY RATE INCREMENT

		BILLS	GALLONS	RATE	RI	EVENUE
FIRST	5,000	486	888,600	\$ 39.70	\$	19,294
NEXT	5,000		1,839,400	5.90		10,852
NEXT	20,000		3,151,600	4.80		15,128
ALL OVER	30,000		10,682,100	3.80		40,592
Т	OTAL	486	16,561,700		\$	85,866

<u>2" RESIDENTIAL METERS</u>

				FIRST	NEXT	ALL OVER	
	USAGE	BILLS	GALLONS	15,000	15,000	30,000	TOTAL
FIRST	15,000	7	13,500	13,500	-	-	13,500
NEXT	15,000	4	96,000	60,000	36,000	-	96,000
ALL OVER	30,000	20	1,215,900	300,000	300,000	615,900	1,215,900
_		31	1,325,400	373,500	336,000	615,900	1,325,400

REVENUE BY RATE INCREMENT

		BILLS	GALLONS	RATE	R	EVENUE
FIRST	15,000	31	373,500	\$ 93.20	\$	2,889
NEXT	15,000		336,000	4.80		1,613
ALL OVER	30,000		615,900	3.80		2,340
Т	OTAL	31	1,325,400		\$	6,842

2" COMMERCIAL METERS

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				FIRST	NEXT	ALL OVER	
	USAGE	BILLS	GALLONS	15,000	15,000	30,000	TOTAL
FIRST	15,000	99	443,200	443,200	-	-	443,200
NEXT	15,000	41	965,400	615,000	350,400	-	965,400
ALL OVER	30,000	165	22,671,400	2,475,000	2,475,000	17,721,400	22,671,400
		305	24,080,000	3,533,200	2,825,400	17,721,400	24,080,000

REVENUE BY RATE INCREMENT

		BILLS	GALLONS	RATE	R	EVENUE
FIRST	15,000	305	3,533,200	\$ 93.20	\$	28,426
NEXT	15,000		2,825,400	4.80		13,562
ALL OVER	30,000		17,721,400	3.80		67,341
Т	OTAL	305	24,080,000		\$	109,329

TOTAL ANNUAL GALLONS 81,549 454,792,000

TOTAL ANNUAL RETAIL SALES REVENUE

\$ 3,485,446

EXISTING AND PROPOSED RATES

Green River Valley Water District July 17, 2019

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Rates updated based on total project cost of \$11,625,000 (\$3,487,500 grant & \$8,137,500 loan)

		M	inimum Bills	Base	d on Mete	er Size	
				Gal	ls. incl'd.	Mi	<u>nimum</u>
	<u> </u>	<u>Meter Size</u>		<u>in N</u>	<u>/linimum</u>	<u>Mor</u>	<u>nthly Bill</u>
	!	5/8 x 3/4 in	ch		2,000	\$	17.21
	:	1 inch			5,000		31.34
	-	1-1/2 inch			10,000		54.89
		2 inch			16,000		78.47
		Rates fo	or Water Usa	ge in /	Addition t	<u>o Mini</u>	mum
	<u>No. of G</u>	iallons per N	<u>Ionth</u>				
	First	2,000	Gallons @	\$	17.21	L.S. N	/linimum
	Next	8,000	Gallons @		4.71	per 1	,000 Gallons
	Next	10,000	Gallons @		3.93	per 1	,000 Gallons
	Next	30,000	Gallons @		3.39	per 1	,000 Gallons
	Next	50,000	Gallons @		3.06	per 1	,000 Gallons
	Over	100,000	Gallons @		2.96	per 1	,000 Gallons
	Wholes	ale Custom	iers	\$	2.14	per 1	,000 Gallons
	Date Th	nis Rate We	nt Into Effec	t	<u>N</u>	ovem	<u>ber 5, 2010</u>
<u>PROPOSE</u>			nt Into Effec er bid open		<u>N</u>	oveml	<u>ber 5, 2010</u>
<u>PROPOSE</u>		RATES (aft		ing)	_		<u>ber 5, 2010</u>
<u>PROPOSE</u>		RATES (aft	er bid open	ing) Based	_	er Size	<u>ber 5, 2010</u> <u>nimum</u>
<u>PROPOSE</u>	<u>D WATER</u>	RATES (aft	er bid open	ing) Based Gal	d on Mete	er Size <u>Mi</u>	<u>nimum</u>
<u>PROPOSE</u>	<u>D WATER</u>	<u>RATES (aft</u> <u>M</u>	<u>er bid open</u> inimum Bills	ing) Based Gal	<mark>d on Mete</mark> ls. incl'd.	er Size <u>Mir</u> Mor	<u>nimum</u> hthly Bill
<u>PROPOSE</u>	D WATER	<u>RATES (aft</u> <u>M</u> Meter Size	<u>er bid open</u> inimum Bills	ing) Based Gal	<mark>d on Mete</mark> Is. incl'd. Ainimum	er Size <u>Mir</u> Mor	<u>nimum</u> hthly Bill
<u>PROPOSE</u>	<u>D WATER</u>	RATES (aft <u>M</u> Meter Size 5/8 x 3/4 in	<u>er bid open</u> inimum Bills	ing) Based Gal	<mark>d on Mete</mark> l <u>s. incl'd.</u> /inimum 2,000	er Size <u>Mir</u> Mor	<u>nimum</u> <u>nthly Bill</u> 22.10
<u>PROPOSE</u>	<u>D WATER</u>	<u>RATES (aft</u> <u>M</u> <u>Meter Size</u> 5/8 x 3/4 in 1 inch	<u>er bid open</u> inimum Bills	ing) Based Gal	<u>d on Mete</u> Is. incl'd. <u>/linimum</u> 2,000 5,000	er Size <u>Mir</u> Mor	<u>nimum</u> 1 <u>thly Bill</u> 22.10 39.95
<u>PROPOSE</u>	<u>D WATER</u>	<u>RATES (aft</u> <u>M</u> <u>Meter Size</u> 5/8 x 3/4 in 1 inch 1-1/2 inch 2 inch	<u>er bid open</u> inimum Bills	ing) Based Gal	<u>d on Mete</u> I <u>s. incl'd.</u> <u>/inimum</u> 2,000 5,000 10,000 15,000	er Size Mii Mor \$	<u>nimum</u> <u>hthly Bill</u> 22.10 39.95 69.70 93.95
<u>PROPOSE</u>	<u>D WATER</u>	<u>RATES (aft</u> <u>M</u> <u>Meter Size</u> 5/8 x 3/4 in 1 inch 1-1/2 inch 2 inch	er bid open inimum Bills ch or Water Usag	ing) Based Gal	<u>d on Mete</u> I <u>s. incl'd.</u> <u>/inimum</u> 2,000 5,000 10,000 15,000	er Size Mii Mor \$	<u>nimum</u> <u>nthly Bill</u> 22.10 39.95 69.70 93.95
<u>PROPOSE</u>	<u>D WATER</u>	<u>Meter Size</u> 5/8 x 3/4 in 1 inch 1-1/2 inch 2 inch <u>Rates fo</u> allons per M	er bid open inimum Bills ch or Water Usag	ing) Based Gal in N	<u>d on Mete</u> I <u>s. incl'd.</u> <u>/inimum</u> 2,000 5,000 10,000 15,000 Addition t	er Size <u>Mir</u> Mor \$:o Mini	<u>nimum</u> <u>nthly Bill</u> 22.10 39.95 69.70 93.95
<u>PROPOSE</u>	<u>D WATER</u>	<u>RATES (aft</u> <u>M</u> <u>Meter Size</u> 5/8 x 3/4 in 1 inch 1 inch 1 -1/2 inch 2 inch <u>Rates fo</u> iallons per N 2,000	er bid open inimum Bills ch or Water Usag <u>ionth</u>	ing) Based Gal in N	<u>d on Mete</u> <u>Is. incl'd.</u> <u>Ainimum</u> 2,000 5,000 10,000 15,000 Addition t	er Size <u>Min</u> S So Mini	nimum hthly Bill 22.10 39.95 69.70 93.95
<u>PROPOSE</u>	<u>D WATER</u>	<u>RATES (aft</u> <u>M</u> <u>Meter Size</u> 5/8 x 3/4 in 1 inch 1-1/2 inch 2 inch <u>Rates fo</u> iallons per <u>N</u> 2,000 8,000	er bid open inimum Bills ch ch <u>or Water Usa</u> <u>ionth</u> Gallons @	ing) Based Gal in N	<u>d on Mete</u> l <u>s. incl'd.</u> <u>/linimum</u> 2,000 5,000 10,000 15,000 Addition t 22.10 5.95	er Size <u>Min</u> S So Mini L.S. N per 1	nimum 22.10 39.95 69.70 93.95 mum Ainimum
<u>PROPOSE</u>	<u>D WATER</u> <u>I</u> <u>No. of G</u> First Next	<u>RATES (aft</u> <u>M</u> <u>Meter Size</u> 5/8 x 3/4 in 1 inch 1-1/2 inch 2 inch <u>Rates fo</u> iallons per N 2,000 8,000 20,000	er bid open inimum Bills ch ch <u>or Water Usag</u> <u>lonth</u> Gallons @ Gallons @	ing) Based Gal in N	<u>d on Mete</u> <u>ls. incl'd.</u> <u>Ainimum</u> 2,000 5,000 10,000 15,000 Addition t 22.10 5.95 4.85	er Size <u>Min</u> S S Co Mini L.S. N per 1 per 1	nimum hthly Bill 22.10 39.95 69.70 93.95 mum /inimum ,000 Gallons