		Fu	II Depreciation		ı	Depreciation
Model parameters	% to Recapture		(Budget)		Recapture	
Water Depreciation	50%	\$	180,000	=	\$	90,000
Sewer Depreciation	50%	\$	290,000	=	\$	145,000
Total Depreciation		\$	470,000	Total Recapture	\$	235,000
				Not Recovered	\$	(235,000)
Cost Distribution	Base/Fixed	C	Commodity	_		
Water O&M	35%		65.0%	812.5		MEU
Sewer O&M	35%		65.0%	985.5		MEU
Sewer Debt	100%		0%			

Cost Distribution		Water	Sewer	Total
Operations and		\$261,843	\$449,928	\$711,77
	Capital Assets	\$0	\$0	
Depreciat	ion Recapture _	\$90,000	\$145,000	\$235,00
Tot	tal O&M Costs	\$351,843	\$594,928	\$946,77
	Debt Service	\$0	\$156,409	\$156,40
Total O&M C	costs and Debt \$	351,843	\$ 751,337	\$1,103,18
Rate Breakdown	Cost	MEU/Usage	Unit Rate	Per billing cycle
Fixed Base O&M Costs				
Water Fixed Cost	\$123,145	812.5	\$151.56	\$37.
Sewer Fixed Cost	\$208,225	985.5	\$211.29	\$52.
_	\$331,370			
Debt Service				
Water Debt Service	\$0	812.5	\$0.00	\$0.0
Sewer Debt Service	\$156,409	985.5	\$158.71	\$39.
_	\$156,409			
Commodity				
Water Commodity	\$228,698	44,885	\$5.10	
Sewer Commodity	\$386,703	51,855	\$7.46	
· <u> </u>	\$615,401	·	·	
 Total All Revenue	\$1,103,180			

50% Depreciation Recapture (050A)

Base/Commodity: 35/65%

		Model	Current	Billing Cycle Change
Base Rates	Units/MEU	Rate	Rate	\$
Water Base Rate	812.5	\$37.89	\$31.80	\$6.09
Sewer Base Rate	985.5	\$52.82	\$50.43	\$2.39
Commodity Rates				
Water Commodity	 44,885	\$5.10	\$4.24	\$0.86
Sewer Commodity	51,855	\$7.46	\$7.14	\$0.32
Sewer Debt Service		\$39.68	\$38.72	\$0.96
Flat Rate Sewer		\$149.20	\$142.80	\$6.40

	MEUs/Units	Modeled \$	C	Current \$	Difference
Water					
Water Base Rate	812.5	\$123,143		\$103,350	\$19,793
Water Commodity	###### ###	\$228,916		\$190,314	\$38,601
	Water	\$352,058		\$293,664	\$58,394
Sewer					
Sewer Base Rate	985.5	\$208,216		\$198,795	\$9,421
Sewer Debt Service	985.5	\$156,419		\$152,624	\$3,794
Sewer Commodity	###### ###	\$386,840		\$370,246	\$16,594
	Sewer	\$751,475		\$721,665	\$29,809
	Total	\$1,103,533		\$1,015,330	\$88,203
	Γ	Annual Mo	dele	ed	
REVENUE CHECKPOINTS	MEU/Units	Rate	ı	Revenue	Revenue Required
Water RTS (O&M)	812.5	\$151.56	\$	123,143	
Sewer RTS (O&M)	985.5	\$211.29	\$	208,226	
Sewer Debt	985.5	\$158.71	\$	156,409	
Water Commodity	44,885	\$5.10	\$	228,916	
Sewer Commodity	51,855	\$7.46	\$	386,840	ОК
			Ś	1,103,533	\$1,103,180

^{*} RTS = READY TO SERVE = CAPACITY = OPERATIONS & MAINTENANCE

^{*} SEWER DEBT = INTEREST + PRINCIPAL

^{*} COMMODITY = USAGE BASED CHARGE (\$ RATE * UNITS SOLD)

		Full Depreciation		Depreciation
Model parameters	% to Recapture	(Budget)		Recapture
Water Depreciation	50%	\$ 180,000	=	\$ 90,000
Sewer Depreciation	50%	\$ 290,000	_ =	\$ 145,000
Total Depreciation		\$ 470,000	Total Recapture	\$ 235,000
			Not Recovered	\$ (235,000)
Cost Distribution	Base/Fixed	Commodity	_	
Water O&M	35%	65.0%	812.5	MEU
Sewer O&M	35%	65.0%	985.5	MEU
Sewer Debt	100%	0%		

Water Model - O	&M @	35% Fixed	l C	harge and 659	% (Commodity/U	sa	ge based
		1						
Cost Distribution				Total Costs		Fixed		Commodity
						35%		65%
Operation	ons and N	1aintenance	\$	261,843	\$	91,645	\$	170,198
	Minor Ca	pital Assets	\$	-	\$	-	\$	-
De	preciatio	n Recapture	\$	90,000	\$	31,500	\$	58,500
Fixed Base O&M Costs		\$	351,843	\$	123,145	\$	228,698	
	Deb	t Service	\$	-	\$	-	\$	-
	Total	Water Costs	\$	351,843	\$	123,145	\$	228,698
					-	Annual Rate or		
Rate Breakdown		Cost		MEU/Usage		Unit Rate	P	er billing cycle
Fixed Base O&M Costs	\$	123,145		812.5	\$	151.56	\$	37.89
Debt Service	\$	-		812.5	\$	-	\$	-
Commodity	\$	228,698		44,885	\$	5.10		usage based
	\$	351,843	•					

Sewer Model - O&M @ 35% Fixed Charge and 65% Commodity/Usage based								
Cost Distribution	Total Costs	Fixed	Commodity					
<u>-</u>		35%	65%					
Operations and Maintenance	\$449,928	\$157,475	\$ 292,453					
Minor Capital Assets	\$0	\$0	\$ -					
Depreciation Recapture	\$145,000	\$50,750	\$ 94,250					
Fixed Base O&M Costs	\$594,928	\$208,225	\$ 386,703					
Debt Service	\$156,409	\$156,409	\$ -					

50% Depreciation Recapture (050A)

Base/Commodity: 35/65%

		Model	Current	Billing Cycle Change
Base Rates	Units/MEU	Rate	Rate	\$
Water Base Rate	812.5	\$37.89	\$31.80	\$6.09
Sewer Base Rate	985.5	\$52.82	\$50.43	\$2.39
Commodity Rates				
Water Commodity	 44,885	\$5.10	\$4.24	\$0.86
Sewer Commodity	51,855	\$7.46	\$7.14	\$0.32
Sewer Debt Service		\$39.68	\$38.72	\$0.96
Flat Rate Sewer		\$149.20	\$142.80	\$6.40

Billing Cycle Revenue								
Water	MEU/Units	Modeled Rates	Current Rates	Revenue Diff				
Water Base Rate	812.5	\$30,786	\$25,838	\$4,948				
Water Commodity	###### ###	\$57,229	\$47,579	\$9,650				
	_	\$88,015	\$73,416	\$14,598				
Sewer								
Sewer Base Rate	985.5	\$52,054	\$49,699	\$2,355				
Sewer Debt Service	985.5	\$39,105	\$38,156	\$949				
Sewer Commodity	###### ###	\$96,710	\$92,562	\$4,148				
		\$187,869	\$180,416	\$7,452				
Total Water and Sewer * Average of Usage = 25% of forecast usage		\$275,883	\$253,832	\$22,051				
Average of Osage = 25% of for	recast usage							

Annual Revenue	;			
	MEUs/Units	Modeled \$	Current \$	Difference
Water				
Water Base Rate	812.5	\$123,143	\$103,350	\$19,793
Water Commodity	44,885	\$228,916	\$190,314	\$38,601
		\$352,058	\$293,664	\$58,394
Sewer				
Sewer Base Rate	985.5	\$208,216	\$198,795	\$9,421

		Full Depreciation		Depr	eciation
Model parameters	% to Recapture	(Budget)		Rec	apture
Water Depreciation	50%	\$ 180,000	=	\$	90,000
Sewer Depreciation	50%	\$ 290,000	=	\$	145,000
Total Depreciation		\$ 470,000	Total Recapture	\$	235,000
	,		Not Recovered	\$	(235,000)
Cost Distribution	Base/Fixed	Commodity	_		
Water O&M	35%	65.0%	812.5	ľ	MEU
Sewer O&M	35%	65.0%	985.5	MEU	
Sewer Debt	100%	0%			
Т	otal Sewer Costs	\$ 751,337	\$ 364,634	\$	386,703
Rate Breakdown	Cost	MEU/Usage	Unit Rate	Per bil	lling cycle
Fixed Base O&M Costs	\$208,225	985.5	\$211.29	\$	52.82
Debt Service	\$156,409	985.5	\$158.71	\$	39.68
Commodity	\$386,703	51,855	\$7.46	usage based	
	\$751,337				

50% Depreciation Recapture (050A)

Base/Commodity: 35/65%

Base Rates	Units/MEU	Model Rate	Current Rate	Billing Cycle Change \$
Water Base Rate	812.5	\$37.89	\$31.80	\$6.09
Sewer Base Rate	985.5	\$52.82	\$50.43	\$2.39
Commodity Rates				
Water Commodity	44,885	\$5.10	\$4.24	\$0.86
Sewer Commodity	51,855	\$7.46	\$7.14	\$0.32
Sewer Debt Service		\$39.68	\$38.72	\$0.96
Flat Rate Sewer		\$149.20	\$142.80	\$6.40
Sewer Debt Service	985.5	\$156,419	\$152,624	\$3,794
Sewer Commodity	51,855	\$386,840	\$370,246	\$16,594
		\$751,475	\$721,665	\$29,809
	Total	\$1,103,533	\$1,015,330	\$88,203

50% Depreciation Recapture (050A)

Base/Commodity: 35/65%

		Full Depreciation		Depreciation		
Model parameters	% to Recapture	(Budget)		Recapture		
Water Depreciation	50%	\$ 180,000	=	\$	90,000	
Sewer Depreciation	50%	\$ 290,000	_ =	\$	145,000	
Total Depreciation		\$ 470,000	Total Recapture	\$	235,000	
			Not Recovered	\$	(235,000)	
Cost Distribution	Base/Fixed	Commodity	_			
Water O&M	35%	65.0%	812.5		MEU	
Sewer O&M	35%	65.0%	985.5		MEU	
Sewer Debt	100%	0%				

Base Rates	Units/MEU	Model Rate	Current Rate	Billing Cycle Change \$	
Water Base Rate	812.5	\$37.89	\$31.80	• \$6.09	
Sewer Base Rate	985.5	\$52.82	\$50.43	\$2.39	
Commodity Rates					
Water Commodity	44,885	\$5.10	\$4.24	\$0.86	
Sewer Commodity	51,855	\$7.46	\$7.14	\$0.32	
Sewer Debt Service		\$39.68	\$38.72	\$0.96	
Flat Rate Sewer		\$149.20	\$142.80	\$6.40	

EXAMPLE

PER QUARTERLY BILLING CYCLE

3/4" Water/Sewer Customer 50% Depreciation Recapture (050A) Base/Commodity: 35/65%

Meter Size Water Units Sprinkler/Irrigation Sewer Only?

0.75 12,750 0 NO

1.00 AWWA MEU

12,750

(Gallons)

	Example New Bill Modeled Rates						Using Curren	t Rates	Change			
	Мо	del Rate	Units/Qty	New Bill	Curr	ent Rate	Units/Qty	Current Bill	\$ Change	Monthly	Annual	
Water Charges												
Water RTS (O&M)	\$	37.89	1.0	\$37.89	\$	31.80	1.0	\$31.80	\$6.09	\$2.03	\$24.36	
Water Commodity	\$	5.10	12,750	\$65.03	\$ 4.24		12,750	\$54.06	\$10.97	\$3.66	\$43.86	
Sewer Charges (Metered)												
Sewer RTS (O&M)	\$	52.82	1.0	\$52.82	\$	50.43	1	\$50.43	\$2.39	\$0.80	\$9.56	
Sewer Debt	\$	39.68	1.0	\$39.68	\$	38.72	1	\$38.72	\$0.96	\$0.32	\$3.85	
Sewer Commodity	\$	7.46	12,750	\$95.12	\$	7.14	12,750	\$91.04	\$4.08	\$1.36	\$16.32	
	Total			\$290.53				\$266.04	\$24.49	\$8.16	\$97.95	

3" Water/Sewer Customer

Meter Size Water Units Sprinkler/Irrigation Sewer

3.00 700,000 60,000

17.50 AWWA MEU

700,000

(Gallons)

er Only?	N
	Ex

	Example New Bill Modeled Rates				Using Curre	nt Rates	Change			
	Model Rate	Units/Qty	New Bill	Current Rate	Units/Qty	Current Bill	\$ Change	\$ Change Monthly		
Water Charges										
Water RTS (O&M)	\$ 37.89	17.5	\$663.08	\$ 556.50	1.0	\$556.50	\$106.58	\$35.53	\$426.30	

50% Depreciation Recapture (050A)

Base/Commodity: 35/65%

		Full Depreciation		D	epreciation						_
Model parameters	% to Recapture	(Budget)			Recapture				Model	Current	Billing Cycle Change
Water Depreciation	50%	\$ 180,000	=	\$	90,000		Base Rates	Units/MEU	Rate	Rate	\$
Sewer Depreciation	50%	\$ 290,000	=	\$	145,000		Water Base Rate	812.5	\$37.89	\$31.80	\$6.09
Total Depreciation		\$ 470,000	- Total Recapture	\$	235,000		Sewer Base Rate	985.5	\$52.82	\$50.43	\$2.39
			Not Recovered	\$	(235,000)		Commodity Rates				
Cost Distribution	Base/Fixed	Commodity					Water Commodity	44,885	\$5.10	\$4.24	\$0.86
Water O&M	35%	65.0%	- 812.5		MEU		Sewer Commodity	51,855	\$7.46	\$7.14	\$0.32
Sewer O&M	35%	65.0%	985.5		MEU		Sewer Debt Service		\$39.68	\$38.72	\$0.96
Sewer Debt	100%	0%					Flat Rate Sewer		\$149.20	\$142.80	\$6.40
Water Commodity	\$ 5.10	700,000	\$3,570.00	\$	4.24	700,000	\$2,968.00	\$602.00	\$200.67	\$2,408.00	ı
Irrigation Commodity	\$ 5.10	60,000	\$306.00	\$	4.24	60,000	\$254.40	\$51.60	\$17.20	\$103.20	
Sewer Charges (Metered)											
Sewer RTS (O&M)	\$ 52.82	17.5	\$924.35	\$	882.53	1	\$882.53	\$41.83	\$13.94	\$83.65	
Sewer Debt	\$ 39.68	17.5	\$694.40	\$	677.56	1	\$677.56	\$16.84	\$5.61	\$33.69	
Sewer Commodity	\$ 7.46	700,000	\$5,222.00	\$	7.14	700,000	\$4,998.00	\$224.00	\$74.67	\$448.00	
	Total		\$11,379.83		•		\$10,336.98	\$1,042.84	\$347.61	\$3,502.84	

Flat Rate Sewer Customer

Meter Size		0.75	1.00 A	WWA MEU										
Sewer Units		20,000 (Units X MEU - change UNITS to change example)												
Sprinkler/Irrigation		-	(Gallons)											
Sewer Only?		Y												
		Exan	nple New Bill Modeled	Rates			Using Curren	it Rates	Ch					
	Mo	del Rate	Units/Qty	New Bill	Current Rate		Units/Qty	Current Bill	\$ Change	Monthly	Annual			
Water Charges														
Sewer Charges														
Sewer RTS (O&M)	\$	52.82	1.0	\$52.82	\$	32.75	1.0	\$32.75	\$20.07	\$6.69	\$80.28			
Sewer Debt	\$	39.68	1.0	\$39.68	\$	-	1.0	\$0.00	\$39.68	\$13.23	\$158.76			
Sewer Commodity	\$	7.46	20,000	\$149.20	\$	7.14	20,000	\$142.80	\$6.40	\$2.13	\$25.56			
	Total			\$241.70				\$175.55	\$66.15	\$22.05	\$264.60			