MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT COST OF SERVICE

APPENDIX 3Alphabetical Listing of Testimony Schedules

MISSOURI-AMERICAN WATER COMPANY

CASE NO. WR-2011-0337

MISSOURI AMERICAN WATER COMPANY

Staff Recommended SCHEDULE of DEPRECIATION RATES Case WR-2011-0337 Same as Ordered Rates from Case WR-2010-0131

DIVISIONS: ALL, Including former Aqua, Loma Linda, and Roark

NARUC			AVERAGE		
USOA		%	SERVICE		%
ACCOUNT	ACCOUNT DESCRIPTION	DEPRECIA	LIFE	IOWA	/º NET
NUMBER		TION RATE	(YEARS)	CURVE	SALVAGE
NOMBER		1101110112	(12/110)	00.1112	<u> </u>
	Source of Supply				
311.0	Structures & Improvements	2.36	55	R4	-30
312.0	Collecting & Impoundment Reserviors	1.25	80	R2.5	0
313.0	Lake, River & Other Intakes	1.77	65 55	R1.5	-15
314.0	Wells & Springs	1.82 1.67	55 60	R2.5	0
315.0	Infiltration Galleries and Tunnels	1.67	60 70	R2.5	0
316.0	Supply Mains Miscellaneous Source of Supply - Other	4.00	70 25	R3 SQ	-25 0
317.0	Miscellarieous Source of Supply - Other	4.00	25	SQ	U
	Pumping Plant				
321.0	Structures & Improvements	1.80	75	R2.5	-35
322.0	Boiler Plant Equipment	2.22	45	R4	0
323.0	Power Generation Equipment	2.00	50	R3	0
324.0	Steam Pumping Equipment	2.62	42	R1.5	-10
325.0	Electric Pumping Equipment	2.62	42	R1.5	-10
326.0	Diesel Pumping Equipment	2.62	42	R1.5	-10
327.0	Hydraulic Pumping Equipment	2.62	42	R1.5	-10
328.0	Other Pumping Equipment	2.62	42	R1.5	-10
	Water Treatment Plant				
331.0	Structures & Improvements	1.69	80	R3	-35
332.0	Water Treatment Equipment	2.89	45	R2.5	-30
333.0	Miscellaneous Water Treat, Other	3.33	30	SQ	0
000.0	Wilderian Court Water Treat, Other	0.00	00	OQ	· ·
	Transmission and Distribution				
341.0	Structures & Improvements	2.40	50	R2.5	-20
341.1	Structures & Improve - Special Crossing	N/A	N/A	N/A	N/A
342.0	Distribution Reservoirs & Standpipes	2.25	60	R3	-35
343.0,1,2,3	Transmission & Distribution Mains	1.39	90	R2.5	-25
344.0	Fire Mains	1.56	80	S1	-25
345.0	Customer Services	2.92	65	S0.5	-90
346.0	Customer Meters	2.40	40	R1	4
347.0	Customer Meter Pits & Installation	2.40	40	R1	4
348.0	Fire Hydrants	1.85	65 50	R1.5	-20
349.0	Misc Trans & Dist - Other	2.00	50	R3	0
	General Plant				
390.0	Structures & Improve - Shop & Garage	2.40	50	R3	-20
390.9	Structures & Improve - Leasehold	5.00	20	R4	0
391.0	Office Furniture	5.00	20		0
391.1	Computer & Peripherial Equipment	20.00	5		0
391.2	Computer Hardware & Software	20.00	5		0
391.3	Other Office Equipment	6.67	15		0
392.1	Transportation Equipment - Light trucks	11.25	8	L1.5	10
392.2	Transportation Equipment - Heavy trucks		9	L2	10
392.3	Transportation Equipment - Autos	18.00	5	L2	10
392.4	Transportation Equipment - Other	5.67	15	S2.5	15
393.0	Stores Equipment	4.00	25		0
394.0	Tools, Shop, Garage Equipment	5.00	20		0
395.0	Laboratory Equipment	6.67	15	145	0
396.0	Power Operated Equipment	7.73	11 15	L1.5	15
397.1	Communication Equip - Non Telephone	6.67	15 10		0
397.2 398.0	Communication Equip - Telephone Miscellaneous Equip	10.00 6.67	10 15		0 0
398.0	Other Tangible Equipment	5.00	20		0
000.0	Salor rangible Equipment	0.00	20		O

MISSOURI AMERICAN WATER COMPANY- Sewer

Staff Recommended SCHEDULE of DEPRECIATION RATES Case SR-2011-0338 (These recommended rates are intended to be consistent across all sewer divisions, and consistent between water and sewer for general plant)

DIVISIONS: All, including former Aqua, Roark, and Loma Linda

NARUC		%	AVERAGE		%
ACCOUNT	ACCOUNT DESCRIPTION	DEPRECIATION	SERVICE		NET
NUMBER		RATE	LIFE (YEARS)	Curves	SALVAGE
054	COLLECTION PLANT	0.500/	40		
351	Structures & Improvements	2.50%	40		
352.1	Collection Sewers (Force)	2.00%	50		
352.2	Collection Sewers (Gravity)	2.00%	50		
353	Services To Customers	2.00%	50		
356	Other Collection Equipment	2.00%	50		
	PUMPING PLANT				
361	Structures & Improvements	2.50%	40		
362	Receiving Wells	4.00%	25		
363	Electric Pumping Equip, (Includes Generators)	10.00%	10		
364	Diesel Pumping Equipment	10.00%	10		
365	Other Pumping Equipment	10.00%	10		
	TREATMENT & DISPOSAL PLANT				
371	Structures & Improvements	2.50%	40		
071	Treatment & Disposal Equipment,	2.0070	40		
372	(Includes pumps, blowers, generators)	5.00%	20		
373	Plant Sewers	2.00%	50		
374	Outfall Sewer Lines	2.00%	50		
	General Plant				
390.0	Structures & Improve - Shop & Garage	2.40	50	R3	-20
390.9	Structures & Improve - Leasehold	5.00	20	R4	0
391.0	Office Furniture	5.00	20		0
391.1	Computer & Peripherial Equipment	20.00	5		0
391.2	Computer Hardware & Software	20.00	5		0
391.3	Other Office Equipment	6.67	15		0
392.1	Transportation Equipment - Light trucks	11.25	8	L1.5	10
392.2	Transportation Equipment - Heavy trucks	10.00	9	L2	10
392.3	Transportation Equipment - Autos	18.00	5	L2	10
392.4	Transportation Equipment - Other	5.67	15	S2.5	15
393.0	Stores Equipment	4.00	25		0
394.0	Tools, Shop, Garage Equipment	5.00	20		0
395.0	Laboratory Equipment	6.67	15		0
396.0	Power Operated Equipment	7.73	11	L1.5	15
397.1	Communication Equip - Non Telephone	6.67	15		0
397.2	Communication Equip - Telephone	10.00	10		0
398.0	Miscellaneous Equip	6.67	15		0
399.0	Other Tangible Equipment	5.00	20		0
JJJ.U	Other rangible Equipment	5.00	20		U

Depreciation Appendix

History

Staff and MAWC conducted a depreciation study in one of MAWC's prior rate cases, Case No. WR-2008-0311. The study conducted included the water utility equipment, but not the sewer utility equipment. The retirement history used in the study included data through December 31, 2008. For water, the ordered depreciation rates assigned consistent depreciation rates to all MAWC water divisions existing at the time of the Report and Order. For sewer, this prior rate case assigned the standard small sewer company depreciation rates with the exception of the General Accounts which were not listed on the sewer company depreciation rate schedule.

Staff's recommended rates in this case are based on MAWC's past plant retirement history, with influence from retirement histories of similar utility companies and future plant operation expectations. Staff's objective in recommending rates is to match (1) the rate of money collection from ratepayers with (2) a straight line estimate of the life time cost of the plant utilized to provide the service.¹

^{1.} The book keeping associated with regulatory depreciation expense is to:

a) Allocate and record the money collected from ratepayers for depreciation purposes to specific plant accounts.

b) Account for the consumption of the invested capital as plant equipment is retired from service,

c) Account for the cost of removal, salvage value received, and any third party payments such as insurance proceeds,

d) Provide a continuous and consistent method of recording of the above listed costs as a historical record for use in future depreciation analysis.

^{2.} The cost of plant in service is recorded as the original installed cost. The installed cost of plant includes costs other than just labor and materials, it also includes costs such as project planning, engineering, sales taxes, transportation, insurance and cost of funds provided during construction, supervision, and all associated overhead costs. This original cost of plant in service stays with the equipment until it is retired from utility service. A transfer of ownership by the Company to another company or set of investors does not alter this cost, regardless of the amount of money paid by the new owners to attain ownership.

^{3.} Only by order of the Commission may the cost of plant in service, the accumulated depreciation reserve, the depreciation rates, or the recording of depreciation expense be modified. Depreciation expense continues to be recorded and accumulated per Commission order until altered by a subsequent Commission order, even if the plant account in question is considered to be fully depreciated.

Definitions

<u>Depreciation</u>: NARUC USOA Water Class A&B 1973, Depreciation." as applied to depreciable utility plant, means the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of utility plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among the causes to be given consideration are wear and tear, decay, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand, and requirements of public authorities.

Basic Formulas for Depreciation of Living Accounts:

Depreciation expense = (Depreciation Rate) * (Total Original Cost of Plant in Service)

Average Service Life (ASL) is the average number of years the property in the account is expected to remain in service. ASL is usually determined using past retirement history within a depreciation study.

Net Salvage: Salvage value minus the cost of removal.

Net Salvage = gross salvage - cost of removal

^{4.} Depreciation expense is calculated as a percent of total plant in service for each plant account.

^{5.} The cost of installed plant is recorded as plant in service on the date the equipment in question is used to provide the utility service.

^{6.} The recorded cost of plant in service is independent of the source of funds used to pay for the installed plant. The source of funds may be from investors, loans, insurance proceeds, ratepayer or third party contributors, or simply still be accounts payable. The regulatory accounting system outside of the plant in service and depreciation section is used to address these issues.

Terminal versus Interim Net Salvage: Terminal net salvage occurs when an entire facility is removed from service. Interim net salvage occurs when a component of a facility is removed or replaced. When it is expected that the interim net salvage rate is a reasonable approximation for the terminal net salvage rate, it is sufficient to use the single (Net Salvage % / ASL) term, as shown above to represent both. Under the above traditional depreciation rate equation, the depreciation rate is applied to the entire facility original cost. The total current plant in service will at some point be retired, thus over the life of a plant facility, net salvage is collected for the total plant in service, and thus total reserves at planned facility retirement are expected to exceed the original cost of plant by the estimated amount required for cost of removal.

<u>Cost of Removal</u>: The cost associated with dismantling, removing, storing, decontaminating, and disposing of a retired unit of property.

<u>Living Accounts</u>: Groups of property which may experience interim retirements, but for which retired property is expected to be replaced by comparable property, with or without improvements in technology. (Often considered equivalent to the term Mass Property)

<u>Mass Property</u>: Continuous living group of property where routine replacements occur.

Remaining Life: Straight line depreciation over composite remaining life with corrections for existing accumulated reserves imbalances.

Whole Life: Straight line depreciation over composite life without any correction for existing accumulated reserve imbalances.

Site Visits

In connection with this case, Staff visited several MAWC facilities. In general, the facilities and equipment observed appeared well engineered, well maintained, of recent vintage, fenced for security, in good operating condition, and with safety and environmental practices in

place. Exceptions to this were the Parkville water treatment plant, and some of the Jefferson City waste water treatment facilities.

The Parkville treatment plant was found to be functioning and producing water for customers. The water treatment facility capacity is inadequate to meet the Parkville district customer demand, thus the system is augmented with water from the Kansas City municipal water system.

MAWC Overall Depreciation rate

The effective overall plant depreciation rate proposed by Staff is 2.03% for the water company assets and 4.02% for the sewer company assets. The sewer company assets represent 1.06% of overall plant, resulting in the overall company depreciation rate of 2.04%

MAWC Accumulated Depreciation Reserves

Staff reviewed individual plant accounts for over or under accrual of depreciation reserves. Staff found apparent excessive over or under depreciation accruals in some specific plant accounts for individual Company divisions. Staff submitted data requests to the Company on November 7, 2011, to inquire into the reasons for these apparent deficiencies. Staff has not received Company responses to these requests because they were not yet due when this report was filed. Staff reviewed MAWC's accumulated depreciation reserves as follows:

 Staff revisited the Company depreciation study submitted for the prior rate case (Case No. WR-2008-0131) to compare overall Company book reserves versus theoretical reserves. This depreciation study used Company records through December 31, 2008. Staff used an estimation process to update the theoretical reserves for comparison to Company book reserves at December 31, 2010. Staff reviewed depreciation reserves by plant account, comparing the accumulated depreciation to plant in service. This was conducted for each Company division (all 26 Staff EMS accounting runs).

The comparison of overall book reserve to theoretical (calculated) reserve is shown in the following table. The plant in service and reserves shown in this table will not match the Company or the Staff accounting runs because this table represents only depreciable accounts. Accounts such as land and land rights (which may have separate amortizations) are not included.

Depreciation Reserves

Method	Dec. 31	2008	Dec. 31 20		
	Plant	Reserves	Plant	Reserves	
Company book:	\$1,357,332,031	\$329,975,805	\$1,517,452,141	\$376,851,741	
Company Calculated					
Reserves:		\$314,914,117		NA	
PSC Staff Calculated					
Reserves:		\$310,851,485		\$371,549,571	
Book Reserves as % of					
Plant	24.3%		24.8%		

This table shows excess accumulated depreciation reserves of \$5 to 20 million, or approximately 1% of current plant in service.

Theoretical reserves are computed using current depreciation rate estimates and applying these rates to the known life history of current plant in service for each account. The life history for each account is normally only updated for a depreciation study, and thus the theoretical reserves are normally only available for the date the depreciation study is conducted. For the evaluation shown above, plant history of additions and retirements through December 31, 2008 was used. Staff used an estimation process to update theoretical reserves through December 31, 2010.

Aggregated Depreciation Rates

In any plant account, the average service life is just that, an average. No one item in the account is expected to actually match that life, yet all items in the account are assigned the same depreciation rate. This is also true regardless of the item's physical location, that is, the equipment in an account in any one facility or district is not expected to actually match that life exactly. In recognition of this, it is neither necessary nor appropriate to split out depreciation requirements for the Parkville facility, when in the aggregate; the Company has more than adequate retirement reserves.

Missouri-American Water Company Case No. WR-2011-0337

Usage Per Customer- Residential (Gallons)

BRUNSWICK		MEXICO		PLATTE CO	
per day	106.00	per day	134.75	per day	226.25
per month	3224.17	per month	4098.65	per month	6881.77
per year	38690.00	per year	49183.75	per year	82581.25
WARRENSBU	JRG	JEFFERSON	CITY		
per day	149.75	per day	146.5		
per month	4554.90	per month	4456.04		
per year	54658.75	per year	53472.50		
ST. CHARLES	;	WARREN CO)	ST. JOSEPH	
ST. CHARLES	3 239.25	WARREN Co per day) 184.25	ST. JOSEPH per day	155.75
					155.75 4737.40
per day	239.25	per day	184.25	per day	
per day per month	239.25 7277.19	per day per month	184.25 5604.27	per day per month	4737.40
per day per month	239.25 7277.19	per day per month	184.25 5604.27 67251.25	per day per month	4737.40
per day per month per year	239.25 7277.19	per day per month per year	184.25 5604.27 67251.25	per day per month	4737.40
per day per month per year	239.25 7277.19 87326.25	per day per month per year ST. LOUIS-0	184.25 5604.27 67251.25	per day per month	4737.40

MAWC			Total C	ustomers		Total Number of Bills		
	District		(Source: Staff's Annualized Numbers at December 31, 2010)			at December	(Source: Customer Annual Billing based upon Company's Test Year Number of Customers)	
			Monthly	Quarterly	Total	Factor		Factor
	Brunswick	BRU	472	0	472	0.100%	5,664	0.189%
	Jefferson City	JFC	12,578	0	12,578	2.672%	150,936	5.038%
×	Joplin	JOP	28,407	0	28,407	6.035%	340,884	11.378%
ATE	Mexico	MEX	5,716	0	5,716	1.214%	68,592	2.289%
WAY	Parkville Water	PKW	6,864	0	6,864	1.458%	82,368	2.749%
MAWC	St. Joseph	SJO	37,339	0	37,339	7.933%	448,068	14.956%
M	St. Louis Metro	SLM	32,692	331,545	364,237	77.383%	1,718,484	57.360%
	Warrensburg	WAR	8,228	0	8,228	1.748%	98,736	3.296%
	Warren County Water	WCW	442	0	442	0.094%	5,304	0.177%
ಬ 🕊	Cedar Hill	CDH	632	0	632	0.134%	7,584	0.253%
MAWC SEWER	Parkville Sewer	PKS	105	0	105	0.022%	1,260	0.042%
SE	Warren County Sewer	WCS	419	0	419	0.089%	5,028	0.168%
ER IRED ER	Roark Water	RW	690	0	690	0.147%	8,280	0.276%
OTHER ACQUIRED WATER	Loma Linda	LL	334	0	334	0.071%	4,008	0.134%
OTHER	Roark Sewer	RWW	636	0	636	0.135%	7,632	0.255%
	Maplewood - Lake Carmel	MWLC	437	0	437	0.093%	5,244	0.175%
	Rankin Acres	RA	86	0	86	0.018%	1,032	0.034%
TER	Riverside Estates	RE	284	0	284	0.060%	3,408	0.114%
WA	Spring Valley	SV	104	0	104	0.022%	1,248	0.042%
A U	Ozark Mountain	OMT	389	0	389	0.083%	4,668	0.156%
AQUA	Lakewood Manor	LWM	36	0	36	0.008%	432	0.014%
	Lake Taneycomo	LT	99	0	99	0.021%	1,188	0.040%
	White Branch	WB	146	0	146	0.031%	1,752	0.058%
A R	Jefferson City Sewer	JCWW	1,604	0	1,604	0.341%	19,248	0.642%
AQUA SEWER	Ozark Meadows	OMWW	24	0	24	0.005%	288	0.010%
	Maplewood Sewer	MPWW	386	0	386	0.082%	4,632	0.155%
	Total		139,149	331,545	470,694	100.000%	2,995,968	100.000%
Staff applied the Allocation Factor to the following Corporate Accounts:		Other Revenues Source of Supply - All accounts Pumping - All accounts Call Centers - All accounts Account 903.2, Contract & Order Labor Account 907, Service & Information			s nts ler Labor	Account 902, Meter Rea Account 903.3, Collecting I Account 903.5, Billing & Accoun Account 903.6, Billing & Account 904 Uncollectible A	Expense Iting Expense Inting Labor	

MAWC District			orate Custo Comp	osite	_	Length of Mains (feet) (Source: 2010 PSC Annual Report, Page W-14 for MAWC,		
	District		Account Nos. 901 and 905)			5)	Page W-9 for Roark Water and Aqua Missouri; 2009 PSC Annual Report, Page W-9 for Loma Linda)	
	D 11	DDII	Labor	Non-Labor	Total	Factor	FF (10	Factor
	Brunswick	BRU	3,603	3,903	7,506	2.634%	75,618	0.229%
	Jefferson City	JFC	991	16,693	17,684	6.206%	828,852	2.505%
TER	Joplin	JOP	19,586	5,668	25,254	8.863%	2,560,457	7.738%
WAT	Mexico	MEX	0	5,640	5,640	1.979%	477,467	1.443%
	Parkville Water	PKW	0	2,834	2,834	0.995%	480,332	1.452%
MAWC	St. Joseph	SJO	37,890	19,192	57,082	20.034%	3,265,307	9.868%
M	St. Louis Metro	SLM	32,729	59,131	91,860	32.240%	24,394,687	73.721%
	Warrensburg	WAR	7,296	11,028	18,324	6.431%	557,803	1.686%
	Warren County Water	WCW	0	0	0	0.000%	61,473	0.186%
ე 🛚	Cedar Hill	CDH	194	2,353	2,547	0.894%	0	0.000%
MAWC SEWER	Parkville Sewer	PKS	0	0	0	0.000%	0	0.000%
SE	Warren County Sewer	WCS	0	0	0	0.000%	0	0.000%
ER ER	Roark Water	RW	0	0	0	0.000%	43,817	0.132%
OTHER ACQUIRED WATER	Loma Linda	LL	0	0	0	0.000%	75,932	0.229%
OTHER SEWER	Roark Sewer	RWW	0	0	0	0.000%	0	0.000%
	Maplewood - Lake Carmel	MWLC	6,082	496	6,578	2.309%	34,450	0.104%
	Rankin Acres	RA	3,092	90	3,182	1.117%	9,308	0.028%
TER	Riverside Estates	RE	3,811	361	4,172	1.464%	33,464	0.101%
WAJ	Spring Valley	SV	4,632	135	4,767	1.673%	9,965	0.030%
	Ozark Mountain	OMT	5,137	451	5,588	1.961%	134,907	0.408%
AQUA	Lakewood Manor	LWM	3,066	45	3,111	1.092%	9,145	0.028%
7	Lake Taneycomo	LT	3,294	143	3,437	1.206%	11,900	0.036%
	White Branch	WB	3,523	180	3,703	1.300%	25,568	0.077%
	Jefferson City Sewer	JCWW	13,659	2,198	15,857	5.565%	0	0.000%
AQUA SEWER	Ozark Meadows	OMWW	2,636	166	2,802	0.983%	0	0.000%
ASE	Maplewood Sewer	MPWW	2,531	469	3,000	1.053%	0	0.000%
	Total		153,752	131,176	284,928	100.000%	33,090,452	100.000%
Staff applied the Allocation Factor to the following Corporate Accounts:		2	Account 901, Account 905, I	•		All Transmission & Distril	oution Expense	

MAWC					Labor Excluding St. Louis, etc. (Source: Staff's Payroll			
	District		(Source: Staff	Annualization as of December 31, 2010)				
			Total	Corp A&G	Difference	Factor		Factor
	Brunswick	BRU	\$125,225	\$9,315	\$115,910	0.507%	\$115,910	2.097%
	Jefferson City	JFC	\$1,000,919	\$74,457	\$926,462	4.049%	\$0	0.000%
ER	Joplin	JOP	\$1,726,670	\$128,444	\$1,598,226	6.985%	\$1,598,226	28.914%
VATER	Mexico	MEX	\$367,342	\$27,326	\$340,016	1.486%	\$340,016	6.151%
X	Parkville Water	PKW	\$262,528	\$19,529	\$242,999	1.062%	\$242,999	4.396%
MAWC	St. Joseph	SJO	\$1,995,510	\$148,443	\$1,847,068	8.072%	\$1,847,068	33.416%
M	St. Louis Metro	SLM	\$18,173,516	\$1,351,897	\$16,821,619	73.515%	\$1,058,198	19.144%
	Warrensburg	WAR	\$346,973	\$25,811	\$321,162	1.404%	\$321,162	5.810%
	Warren County Water	WCW	\$58,112	\$4,323	\$53,789	0.235%	\$0	0.000%
ر الا	Cedar Hill	CDH	\$110,769	\$8,240	\$102,529	0.448%	\$0	0.000%
MAWC SEWER	Parkville Sewer	PKS	\$4,182	\$311	\$3,871	0.017%	\$3,871	0.070%
SE	Warren County Sewer	WCS	\$132,109	\$9,827	\$122,282	0.534%	\$0	0.000%
IER IRED	Roark Water	RW	\$0	\$0	\$0	0.000%	\$0	0.000%
OTHER ACQUIRED WATER	Loma Linda	LL	\$0	\$0	\$0	0.000%	\$0	0.000%
OTHER	Roark Sewer	RWW	\$0	\$0	\$0	0.000%	\$0	0.000%
	Maplewood - Lake Carmel	MWLC	\$55,936	\$4,161	\$51,775	0.226%	\$0	0.000%
	Rankin Acres	RA	\$0	\$0	\$0	0.000%	\$0	0.000%
TER	Riverside Estates	RE	\$41,723	\$3,104	\$38,619	0.169%	\$0	0.000%
W A.	Spring Valley	SV	\$14,646	\$1,089	\$13,556	0.059%	\$0	0.000%
A 1	Ozark Mountain	OMT	\$58,040	\$4,317	\$53,722	0.235%	\$0	0.000%
AQUA	Lakewood Manor	LWM	\$5,417	\$403	\$5,014	0.022%	\$0	0.000%
	Lake Taneycomo	LT	\$14,710	\$1,094	\$13,616	0.060%	\$0	0.000%
	White Branch	WB	\$21,806	\$1,622	\$20,184	0.088%	\$0	0.000%
_ ~ ~	Jefferson City Sewer	JCWW	\$195,324	\$14,530	\$180,794	0.790%	\$0	0.000%
AQUA	Ozark Meadows	OMWW	\$3,570	\$266	\$3,305	0.014%	\$0	0.000%
A S E	Maplewood Sewer	MPWW	\$5,798	\$431	\$5,367	0.023%	\$0	0.000%
	Total		\$ <u>24,720,825</u>	\$ <u>1,838,940</u>	\$ <u>22,881,886</u>	100.000%	\$ <u>5,527,451</u>	100.000%
Staff applied the Allocation Factor to the following Corporate Accounts:		A&G expenses (except for Call Center adjmt, Bellville Lab & OPEB amort) General Plant (All plant recorded in Corporate district) Accumulated Depreciation Reserve on General Plant Accumulated Amortization Reserve Miscellaneous Non-deductible Expenses Prepayments related to insurance and other			OPEB As: Amortiz			

	MAWC District		Water Re (Source: Staff's A Revenues December 3 I	Annualized as of 1, 2010)	Sewer Re (Source: Staff's A Revenues December 3	Annualized as of 1, 2010)
	Brunswick	BRU	\$384,280	Factor 0.163%	\$0	Factor 0.000%
	Jefferson City	JFC	\$5,850,705	2.483%	\$0	0.000%
~	Joplin	JOP	\$18,224,033	7.733%	\$0	0.000%
WATER	Mexico	MEX	\$3,559,325	1.510%	\$0	0.000%
WA	Parkville Water	PKW	\$5,307,847	2.252%	\$0	0.000%
S C	St. Joseph	SJO	\$20,928,031	8.881%	\$0	0.000%
MAWC	St. Louis Metro	SLM	\$176,149,467	74.750%	\$0	0.000%
		WAR	\$3,781,621	1.605%	\$0	
	Warrensburg Warren County	WCW	. , ,	0.144%	\$0 \$0	0.000%
	Water		\$339,483			
MAWC SEWER	Cedar Hill	CDH	\$0	0.000%	\$479,979	20.879%
MA V	Parkville Sewer Warren County	PKS	\$0	0.000%	\$82,177	3.575%
	Sewer	WCS	\$0	0.000%	\$270,205	11.754%
OTHER CQUIRED WATER	Roark Water	RW	\$262,860	0.112%	\$0	0.000%
OTHER ACQUIRED WATER	Loma Linda	LL	\$111,385	0.047%	\$0	0.000%
OTHER	Roark Sewer	RWW	\$0	0.000%	\$294,926	12.830%
	Maplewood - Lake Carmel	MWLC	\$153,203	0.065%	\$0	0.000%
	Rankin Acres	RA	\$52,703	0.022%	\$0	0.000%
le R	Riverside Estates	RE	\$116,199	0.049%	\$0	0.000%
W A J	Spring Valley	SV	\$64,489	0.027%	\$0	0.000%
	Ozark Mountain	OMT	\$196,526	0.083%	\$0	0.000%
A Q U A	Lakewood Manor	LWM	\$23,384	0.010%	\$0	0.000%
7	Lake Taneycomo	LT	\$59,746	0.025%	\$0	0.000%
	White Branch	WB	\$85,456	0.036%	\$0	0.000%
_ ~ ~	Jefferson City Sewer	JCWW	\$0	0.000%	\$1,022,979	44.500%
AQUA SEWER	Ozark Meadows	OMWW	\$0	0.000%	\$14,209	0.618%
SE	Maplewood Sewer	MPWW	\$0	0.000%	\$134,336	5.844%
	Total		\$ <u>235,650,743</u>	100.000%	\$ <u>2,298,811</u>	100.000%
Total Staff applied the Allocation Factor to the following Corporate Accounts:		PSC Assessmen Operati		PSC Assessmer Operat		

MAWC District		Net Plant (Source: Staff's December 31, 2010 Net Plant) Factor		Net Normalized Timing Difference (Source: Staff's December 31, 2010 Net Normalized Timing Difference) Factor		Net Book to Net Tax Basis Plant Difference (Source: Staff's Net Book to Net Tax Basis as of December 31, 2010) Factor		
	Brunswick	BRU	\$2,446,148	0.211%	\$18,588	0.056%	\$295,785	0.215%
	Jefferson City	JFC	\$22,066,871	1.903%	\$625,782	1.872%	\$2,570,840	1.865%
~	Joplin	JOP	\$110,113,019	9.498%	\$1,204,828	3.604%	\$11,762,770	8.535%
WATER	Mexico	MEX	\$19,466,644	1.679%	\$421,069	1.259%	\$2,087,377	1.515%
×	Parkville Water	PKW	\$34,364,721	2.964%	\$713,807	2.135%	\$3,709,458	2.692%
M A W C	St. Joseph	SJO	\$99,652,121	8.596%	\$3,955,080	11.830%	\$11,548,355	8.379%
MA	St. Louis Metro	SLM	\$832,882,810	71.840%	\$24,791,440	74.152%	\$102,719,629	74.532%
	Warrensburg	WAR	\$19,982,589	1.724%	\$603,119	1.804%	\$2,274,255	1.650%
	Warren County	WCW	\$1,415,676	0.122%	\$37,594	0.112%	\$154,780	0.112%
	Water Cedar Hill	CDH	\$3,040,201	0.262%	\$173,265	0.518%	\$323,952	0.235%
MAWC SEWER	Parkville Sewer	PKS	\$45,402	0.004%	\$2,276	0.007%	\$7,267	0.005%
MA	Warren County	WCS	\$3,176,335	0.274%	\$33,400	0.100%	\$364,921	0.265%
	Sewer			0.130%		0.308%		
OTHER ACQUIRED WATER	Roark Water	RW	\$1,507,610	0.130%	\$102,991	0.308%	\$0	0.000%
	Loma Linda	LL	\$441,383	0.038%	\$33,488	0.100%	\$0	0.000%
OTHER	Roark Sewer	RWW	\$3,409,252	0.294%	\$205,422	0.614%	\$0	0.000%
	Maplewood - Lake Carmel	MWLC	\$441,349	0.038%	\$42,299	0.127%	\$0	0.000%
	Rankin Acres	RA	\$41,386	0.004%	\$10,922	0.033%	\$0	0.000%
TER	Riverside Estates	RE	\$336,711	0.029%	\$28,092	0.084%	\$0	0.000%
WAJ	Spring Valley	SV	\$51,386	0.004%	\$6,085	0.018%	\$0	0.000%
	Ozark Mountain	OMT	\$708,381	0.061%	\$70,602	0.211%	\$0	0.000%
AQUA	Lakewood Manor	LWM	\$107,907	0.009%	\$7,144	0.021%	\$0	0.000%
	Lake Taneycomo	LT	\$140,715	0.012%	\$11,739	0.035%	\$0	0.000%
	White Branch	WB	\$239,490	0.021%	\$15,195	0.045%	\$0	0.000%
	Jefferson City Sewer	JCWW	\$2,789,139	0.241%	\$261,713	0.783%	\$0	0.000%
AQUA SEWER	Ozark Meadows	OMWW	\$99,438	0.009%	\$4,113	0.012%	\$0	0.000%
S E	Maplewood Sewer	MPWW	\$384,196	0.033%	\$53,426	0.160%	\$0	0.000%
	Total		\$ <u>1,159,350,880</u>	100.000%	\$ <u>33,433,479</u>	100.000%	\$ <u>137,819,389</u>	100.000%
Fac	applied the Allo tor to the follov rporate Accour	wing	State Franch Prepaid Taxes		Annualized DI each district's timing diff	normalized	Deferred Inco Balanco	

MAWC District			ITC Amoritzation (Bases: Direct assigned ITC balances) (Source: Staff's ITC Amortization at December 31, 2010) Factor		Water Test Analyses Performed (Source: Test Year Number of Analyses performed by Belleville Lab by district) Factor	
	Brunswick	BRU	\$0	0.000%	219	6.600%
	Jefferson City	JFC	\$0	0.000%	337	10.157%
R	Joplin	JOP	\$6,856	28.201%	337	10.157%
WATER	Mexico	MEX	\$0	0.000%	241	7.263%
	Parkville Water	PKW	\$768	3.159%	341	10.277%
MAWC	St. Joseph	SJO	\$16,687	68.640%	310	9.343%
M	St. Louis Metro	SLM	\$0	0.000%	1,160	34.961%
	Warrensburg	WAR	\$0	0.000%	307	9.253%
	Warren County Water	WCW	\$0	0.000%	66	1.989%
ر ۳ د	Cedar Hill	CDH	\$0	0.000%	0	0.000%
MAWCSEWER	Parkville Sewer	PKS	\$0	0.000%	0	0.000%
SE	Warren County Sewer	WCS	\$0	0.000%	0	0.000%
IER IRED FER	Roark Water	RW	\$0	0.000%	0	0.000%
OTHER ACQUIRED WATER	Loma Linda	LL	\$0	0.000%	0	0.000%
OTHER SEWER	Roark Sewer	RWW	\$0	0.000%	0	0.000%
	Maplewood - Lake Carmel	MWLC	\$0	0.000%	0	0.000%
	Rankin Acres	RA	\$0	0.000%	0	0.000%
TER	Riverside Estates	RE	\$0	0.000%	0	0.000%
W A .	Spring Valley	SV	\$0	0.000%	0	0.000%
	Ozark Mountain	OMT	\$0	0.000%	0	0.000%
AQUA	Lakewood Manor	LWM	\$0	0.000%	0	0.000%
	Lake Taneycomo	LT	\$0	0.000%	0	0.000%
	White Branch	WB	\$0	0.000%	0	0.000%
A R	Jefferson City Sewer	JCWW	\$0	0.000%	0	0.000%
AQUA SEWER	Ozark Meadows	OMWW	\$0	0.000%	0	0.000%
SE	Maplewood Sewer	MPWW	\$0	0.000%	0	0.000%
_	Total		\$ <u>24,311</u>	100.000%	3,318	100.000%
Staff applied the Allocation Factor to the following Corporate Accounts:		Corporate recorded ITC amortization		Bellville Lab costs/expense		