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Service Commission

Exhibit No.: Exhibit 101

Issues: Infrastructure System Replacement

Surcharge

Witness: Brian W. LaGrand

Exhibit Type: Direct

Sponsoring Party: Missouri-American Water Company

Case No.: WO-2020-0190 Date: May 22, 2020

#### MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. WO-2020-0190

**DIRECT TESTIMONY** 

**OF** 

**BRIAN W. LAGRAND** 

ON BEHALF OF

MISSOURI-AMERICAN WATER COMPANY

**AFFIDAVIT** 

I, Brian W. LaGrand, under penalty of perjury, and pursuant to Section 509.030, RSMo,

state that I am Director of Rates and Regulatory Support for Missouri-American Water Company,

that the accompanying testimony and schedules have been prepared by me or under my direction

and supervision; that if inquiries were made as to the facts in said testimony and schedules, I would

respond as therein set forth; and that the aforesaid testimony and schedules are true and correct to

the best of my knowledge and belief.

Brian W. LaGrand

May 21, 2020

Dated

#### DIRECT TESTIMONY BRIAN W. LAGRAND MISSOURI-AMERICAN WATER COMPANY CASE NO. WO-2020-0190

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#### **DIRECT TESTIMONY**

#### **BRIAN W. LAGRAND**

1		I. INTRODUCTION
2	Q.	Please state your name and business address.
3	A.	My name is Brian W. LaGrand, and my business address is 727 Craig Road, St. Louis,
4		MO, 63141.
5		
6	Q.	By whom are you employed and in what capacity?
7	A.	I am employed by Missouri-American Water Company ("MAWC", "Missouri-
8		American" or the "Company") as the Director of Rates and Regulatory Support.
9		
10	Q.	Please summarize your educational background and business experience.
11	A.	I received a Master of Business Administration degree from Washington University in
12		St. Louis in 1998, with a concentration in Finance, and a Bachelor of Science in
13		Business Administration degree from the University of Dayton in 1993, with a major
14		in Accounting. After graduation from the University of Dayton, I was licensed in Ohio
15		as a Certified Public Accountant, and was employed as an Auditor by J.D. Cloud and
16		Associates until 1996. After graduating from Washington University, I spent two years
17		at May Department Stores Company in the Capital Planning & Analysis department,
18		focusing on the evaluation of capital investments. In 2000, I began working for
19		Anheuser-Busch Companies as a Financial Analyst in the Treasury Group. My
20		responsibilities included managing the foreign currency derivative portfolio in Risk
21		Management and running the commercial paper and share repurchase programs in

Corporate Finance. In 2005, I moved into the Business & Wholesaler Development Group as a Sr. Business Analyst, where I worked on acquisitions of craft breweries and competitive analysis. In 2010, I joined American Water Works Service Company, Inc. ("Service Company") as a Manager in the Corporate Finance Group. My focus included evaluation of acquisition opportunities across the country and the execution of many acquisitions, including several in Missouri. In November of 2016, I was promoted to my current position as Director of Rates and Regulatory Support for MAWC.

A.

#### Q. What are your current employment responsibilities?

My responsibilities as Director of Rates and Regulatory Support include the following:

1) preparing and presenting all rate change applications and supporting documents and exhibits as prescribed by management policies, guidelines and regulatory commission requirements; 2) preparing rate analyses and studies to evaluate the effect of proposed rates on the revenues, rate of return and tariff structures; 3) executing the implementation of rate orders, including development of the revised tariff pricing necessary to produce the proposed revenue level; 4) overseeing the preparation of revenue and capital requirements analyses; and 5) providing support for financial analyses, including preparation of applicable regulatory commission filings.

- Q. Are you generally familiar with the operations, books and records of MAWC?
- 22 A. Yes.

#### Q. Have you previously testified before the Missouri Public Service Commission?

1	A.	Yes. Please see <u>Schedule BWL-1</u> for a list of proceedings where I provided testimony
2		before the Missouri Public Service Commission ("Commission").
3		
4	Q.	What is the purpose of your direct testimony in this proceeding?
5	A.	The purpose of my Direct Testimony is to sponsor and testify in support of MAWC's
6		request to change its ISRS.
7		
8		II. ISRS APPLICATION
9	Q.	Would you summarize MAWC's ISRS Application?
10	A.	Yes. On March 2, 2020, MAWC filed an Application to change its ISRS. The
11		application includes ISRS-eligible investments, net of Contributions in Aid of
12		Construction, made between October 1, 2019 and March 31, 2020, annualized net
13		depreciation expense, and property taxes due within the next 12 months. In the initial
14		Application, the investment amounts for February and March were estimated.
15		
16	Q.	Has the Company updated the investment amounts?
17	A.	Yes. MAWC updated the February and March investments to include actual numbers,
18		rather than estimates. As a result of this process, the Company and Staff are now in
19		agreement as to the amount of investment that should be included in the ISRS rate base.
20		The Company's revised revenue requirement is now \$9,725,687. Please see <b>Schedule</b>
21		<u>BWL-2</u> .
22		
23	Q.	Do the Company and Staff agree on the total revenue requirement?
24	A.	Yes.

2	Ο.	Were any	other ad	liustments	made to	the revenue	requirement

3 Yes. MAWC's last three ISRS cases (Files Nos. WO-2018-0373, WO-2019-0184, and A. 4 WO-2019-0389) concerned an issue related to a potential tax normalization violation 5 related to accumulated deferred income taxes. The Company subsequently received a 6 Private Letter Ruling from the Internal Revenue Service ("IRS") concerning this issue. 7 In the revenue requirement above, the Company and Staff both included an additional 8 \$35,328 to cure the normalization issue from those prior ISRS cases. The details of 9 that calculation are included as Schedule BWL-3. The Private Letter Ruling is

11

12

13

10

Q. Does this adjustment concern eligible infrastructure system replacements included in MAWC's currently effective ISRS?

discussed further in the Direct Testimony of Company witness John Wilde.

14 A. Yes. This ISRS was established in File No. WO-2018-0373, where the issue first arose.
15 The adjustment is calculated in regard to the plant included in MAWC's ISRS in Files
16 Nos. WO-2018-0373 (ISRS established), WO-2019-0184 (ISRS change), and WO17 2019-0389 (ISRS change). Thus, the adjustment concerns recognition of accumulated
18 deferred income taxes associated with the eligible infrastructure system replacements
19 included in MAWC's currently effective ISRS.

- 21 Q. Was the possibility of a cure contemplated in a previous case?
- 22 A. Yes. Prior to the issuance of an IRS ruling on MAWC's PLR request, in File No. WO-23 2019-0389), Staff and MAWC entered into a *Partial Stipulation and Agreement*, which 24 stated in part as follows:

If the IRS PLR indicates that the Commission's treatment of the Deferred Tax Asset (NOL) has created a normalization violation, MAWC will file an application for an Accounting Authority Order (AAO), and Staff and OPC agree to support such AAO application, to permit MAWC to record a regulatory asset to capture the rate differential in an amount as may be necessary to cure such normalization violation, if any, identified by the PLR.

The Office of the Public Counsel ("OPC"), while not a signatory, affirmatively indicated that it did not oppose the *Partial Stipulation and Agreement*, such that it was treated as unanimous in accordance with Commission Rule 20 CSR 4240-2.115. The Commission approved the agreement in its November 21, 2019, *Order Approving Partial Stipulation and Agreement and Approving Infrastructure System Replacement Surcharge*, issued in File No. WO-2019-0389.

A.

# Q. Why is the cure adjustment being proposed in this case rather than in an AAO and subsequent general rate case?

First, the Company believes that providing for the cure in a direct manner provides more certainty in terms of truly curing the issue with respect to the IRS. As Company witness John Wilde explains, the IRS requires normalization violations to be remedied at the "next available opportunity." Second, addressing the issue within the current ISRS provides a "cleaner" mechanism for recovery. That is, it is a more precise way to ensure that the Company collects no more and no less than the identified amount and allows recovery to be received from only those customers to which the ISRS applies, something that might not be so straightforward in a subsequent general rate case. Lastly, as a practical matter, the relatively small amount associated with the cure makes this solution more manageable.

- 1 Q. Does this conclude your direct testimony?
- 2 A. Yes.

### Brian W. LaGrand Missouri American Water Director of Rates & Regulatory Support

#### **Case Participation**

Case Number	Case Type	Testimony Issues			
Cases Before Missouri	<b>Public Service Commission</b>	·			
WO-2018-0184	ISRS	<b><u>Direct:</u></b> Infrastructure System Replacement Surcharge			
WO-2017-0393	ISRS	<u>Direct:</u> Infrastructure System Replacement Surcharge			
		<u>Direct:</u> Company Accounting Schedules, Acquisitions,			
		Revenue Requirement, Revenues, Rate Design, Rate Base,			
		Depreciation Expense, Amortization Expense, Rate Case			
		Expense, Minimum Filing Requirements			
		Revenue Requirement Rebuttal: Revenue Requirement,			
		Present Rate Revenues, Rate Base, Depreciation Expense,			
WR-2017-0285	General Rate Case	Amortization Expense, Rate Case Expense			
		Rate Design Rebuttal: Water & Sewer Cost Allocations,			
		Arnold Rates, Miscellaneous Fees, Fire Tariffs			
		Surrebuttal: Water Rate Design, Fixed Charge, Offset Mechanism, Sewer Rate Design, Miscellaneous Fees, Low			
		Income Tariff, Property Taxes, Customer Usage, Depreciation Expense, Negative Depreciation Reserves,			
		Regulatory Deferrals, Rate Case Expense, Working Capital			
		Direct: Lead Service Line Replacement program, Cost			
	Accounting Authority	Recovery, Accounting Authority Order			
WU-2017-0351	Order	Rebuttal: Accounting Authority Order, Cost Recovery			
		Surrebuttal: Accounting Treatment			
		<b>Direct:</b> Property Tax Expense, Accounting Authority			
WU-2017-0296	Accounting Authority	Order			
VVU-2017-0296	Order	Surrebuttal: Property Tax Expense, Accounting Authority			
		Order			
WA-2012-0066	Application for Certificate	<u>Direct:</u> Financial Analysis of Saddlebrooke Acquisition			
Cases Before Illinois Co					
15-0458	Acquisition of the City of	<u>Direct:</u> Rate, Financial and Accounting aspects of the			
25 6 156	Grafton Sewer	acquisition			
14-0105	Acquisition of Hardin	<u>Direct:</u> Rate, Financial and Accounting aspects of the			
	County Water	acquisition, Illinois Small Systems Viability Act			
13-0073	Acquisition of the City of	<u>Direct:</u> Rate, Financial and Accounting aspects of the			
	Grafton Water	acquisition			

#### Infrastructure System Replacement Surcharge Revenue Requirement 2 3 Water Utility Plant Projects--Replacement Mains, and Associated Valves and Hydrants (RM) RSMo 393.1000 (8a): 4 Task Orders Placed in Service (TOPS): STLC-Replacement Mains and Associated Valves and Hydrants 5 \$65,307,164 6 Net Contributions in Aid of Construction (4,698)7 **Deferred Taxes** (8,582,268)8 **Accumulated Depreciation** (310,338)9 10 Total Net 393.1000 (8a) \$56,409,860 11 Water Utility Plant Projects--Main Cleanings and Relinings (RM) RSMo 393.1000 (8b): 12 13 Task Orders Placed in Service (TOPS): 14 STLC-Main Cleanings and Relinings \$0 Net Contributions in Aid of Construction 15 0 16 Deferred Taxes O 17 **Accumulated Depreciation** 0 18 19 Total Net 393.1000 (8b) \$0 20 Water Utility Plant Projects--Facilities Relocations (FR) RSMo 393.1000 (8c): 21 22 Task Orders Placed in Service (TOPS): 23 STLC-Relocated Facilities \$1,832,844 24 Net Contributions in Aid of Construction (235,642)25 **Deferred Taxes** (186,772)26 **Accumulated Depreciation** (12,825)27 Total Net 393.1000 (8c) \$1,397,605 28 29 30 **Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS** (\$1,285,421) 31 Accumulated Depreciation - Prior ISRS **Deferred Taxes - Prior ISRS** 32 (63,486)33 Deferred Taxes - Prior ISRS - Tax Rate Adjustment 1,634,341 34 35 **Total** \$285,434 36 \$58,092,900 **Total ISRS Rate Base** 37 38 39 Overall Pre-Tax Rate Of Return per Last Order 9.29% 40 41 Revenue Requirement on Capital \$5,396,830 42 **Depreciation Expense** 777.132 43 3,748,783 **Property Taxes** 44 Revenue Cap Adjustment 0 45 46 **Total Revenue Requirement** \$9,922,745 47 48 **Adjustments:** 49 Undercollection from ISRS reconciliation (232,386)50 Change in MO Corporate Tax Rate on Prior ISRS 51 Corrected Normalization from Prior ISRS Cases 35,328 52 Adjusted Total Revenue Requirement \$9,725,687 53 54 Allocation of Revenue by Class \$9,712,135 55 Rate A Rate B 56 3,853 57 Rate J 9,699 58 \$9,725,687 **Grand Total Revenues Collected in Proposed ISRS** 59

	Replacer	ments	Relocatio	ons	Total All P	roperty
	2019	2020	2019	2020	2019	2020
Plant Additions						
Plant Additions	13,030,643	52,276,522	1,234,578	598,267	14,265,220	52,874,
Net Plant Additions	13,030,643	52,276,522	1,234,578	598,267	14,265,220	52,874,
otal Tax Items						
Repairs Deduction						
Net Plant Additions	13,030,643	52,276,522	1,234,578	598,267	14,265,220	52,874,
Repairs %	55.4%	55.4%	55.4%	55.4% <b>331,502</b>	7.004.435	20 200
Total Repairs Deduction	7,220,340	28,966,664	684,085	331,502	7,904,425	29,298,
Bonus Depreciation						
Net Plant Additions After Repairs	5,810,303	23,309,857	550,492	266,764	6,360,795	23,576,
Bonus Depreciation %	0.0%	0.0%	0.0%	0.0%		
Total Bonus Depreciation	-	-	-	-	-	
Regular Depreciation						
Net Plant Additions After Repairs and Bonus	5,810,303	23,309,857	550,492	266,764	6,360,795	23,576,
/ear 1 Depreciation Rate	2.0%	2.0%	2.0%	2.0%	-,,	.,,
Months Included	12.0	5.0	12.0	5.0		
ear 2 Depreciation Rate	4.0%	4.0%	4.0%	4.0%		
Months Included	5.0		5.0			
otal Regular Depreciation	213,044	194,249	20,185	2,223	233,229	196,
Faxable Income - Contributions	(4,731)	_	22,660	(259,392)	17,930	(259,
otal Tax Deductions	7,428,653	29,160,913	726,930	74,333	8,155,584	29,235,
otal Book Items						
Net Book Depreciation						
Book Depreciation	111,398	198,940	9,951	2,874	121,350	201,
Book Amortization	(33)	-	184	(1,273)	151	(1,
otal Net Book Depreciation	111,365	198,940	10,135	1,601	121,501	200,
	(7,317,288)	(28,961,973)	(716,795)	(72,733)	(8,034,083)	(29,034,
	(7,317,288)	(28,961,973)	(716,795)	(72,733)	(8,034,083)	2020
Net Operating Loss	(7,317,288)	(28,961,973)	(716,795)	(72,733)	2019	2020
Net Operating Loss	(7,317,288)	(28,961,973)	(716,795)	(72,733)	<b>2019</b> 14,265,220	<b>2020</b> 52,874,
Net Operating Loss  Net Plant Additions  Repairs Tax Basis	(7,317,288)	(28,961,973)	(716,795)	(72,733)	<b>2019</b> 14,265,220 7,904,425	<b>2020</b> 52,874,
Net Operating Loss  Net Plant Additions  Repairs Tax Basis	(7,317,288)	(28,961,973)	(716,795)	(72,733)	<b>2019</b> 14,265,220	<b>2020</b> 52,874,
Net Plant Additions Repairs Tax Basis Method Life Basis	(7,317,288)	(28,961,973)	(716,795)	(72,733)	<b>2019</b> 14,265,220 7,904,425 6,360,795	2020 52,874, 29,298, 23,576,0
Net Operating Loss  Net Plant Additions  Repairs Tax Basis  Method Life Basis  Book Depreciation Allocated to Repiars	(7,317,288)	(28,961,973)	(716,795)	(72,733)	2019 14,265,220 7,904,425 6,360,795 67,324	2020 52,874, 29,298, 23,576,
Net Operating Loss  Net Plant Additions  Repairs Tax Basis  Method Life Basis  Sook Depreciation Allocated to Repiars  Book Depreciation Allocated to Method Life	(7,317,288)	(28,961,973)	(716,795)	(72,733)	2019 14,265,220 7,904,425 6,360,795 67,324 54,177	2020 52,874, 29,298, 23,576, 111, 89,
Net Operating Loss  Net Plant Additions  Repairs Tax Basis  Method Life Basis  Book Depreciation Allocated to Repiars  Book Depreciation Allocated to Method Life	(7,317,288)	(28,961,973)	(716,795)	(72,733)	2019 14,265,220 7,904,425 6,360,795 67,324	2020 52,874, 29,298, 23,576, 111, 89,
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Net Operating Loss  Net Plant Additions  Repairs Tax Basis Method Life Basis  Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation  Repairs Related NOL Repairs Book Depreciation  Repairs Tax Deduction  NOL Related to Repairs  Method Life Book Depreciation  Addition Book Depreciation  NOL Related Tax Depreciation  NOL Related to Method Life  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Method Life Related  Method Life Related  Method Life Related	(7,317,288)  Replacer		(716,795)	Include? No Yes	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053)	2020 52,874, 29,298, 23,576, 111, 89, 200, 111, 29,298, (29,187, (107,) (107,)
Net Operating Loss  Net Plant Additions  Repairs Tax Basis  Nethod Life Basis  Nook Depreciation Allocated to Repiars  Nook Depreciation Allocated to Method Life  Total Book Depreciation  Repairs Related NOL  Repairs Related NOL  NOL Related to Repairs  Not Related to Repairs  Not Book Depreciation  NOL Related to Repairs  Not Life Related NOL  Note Thought Tax Depreciation  Not Related to Method Life  Total NOL for ISRS Purposes  Repairs Related  Note Hold Feelated  Note Hold Feel				Include? No Yes	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053) 0 (179,053)	2020 52,874, 29,298, 23,576, 111, 89, 200, 111, 29,298, (29,187, (107,) (107,)
Net Operating Loss  Net Plant Additions  Repairs Tax Basis  Nethod Life Basis  Nook Depreciation Allocated to Repiars  Nook Depreciation Allocated to Method Life  Total Book Depreciation  Repairs Related NOL  Repairs Related NOL  NOL Related to Repairs  Not Related to Repairs  Not Book Depreciation  NOL Related to Repairs  Not Life Related NOL  Note Thought Tax Depreciation  Not Related to Method Life  Total NOL for ISRS Purposes  Repairs Related  Note Hold Feelated  Note Hold Feel	Replacer	ments	Relocation	Include? No Yes	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053) 0 (179,053)	2020 52,874, 29,298, 23,576, 111, 89, 200, 111, 29,298, (29,187, (107,4) (\$107,4) (\$107,4)
Net Operating Loss  Net Plant Additions  Repairs Tax Basis Wethod Life Basis  Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation  Repairs Related NOL Repairs Book Depreciation Repairs Tax Deduction  VOL Related to Repairs  Wethod Life Related NOL Wethod Life Related NOL Wethod Life Book Depreciation Receierated Tax Depreciation Receierated Tax Depreciation Receierated Tax Depreciation  ROL Related to Method Life  Fotal NOL for ISRS Purposes Repairs Related Revealed Related  Revealed Related  Revealed Related  Revealed Related  Revealed Related  Revealed Related  Revealed Related  Revealed Related  Revealed Revealed	Replacer 2019	ments 2020	Relocation 2019	Include? No Yes  2020	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053) (\$179,053)  Total All Pt. 2019 (8,034,083) 23.8%	2020 52,874, 29,298, 23,576, 111, 89, 200, 111, 29,298, (29,187, (107,) (\$107,) (\$107,)
Net Operating Loss  Net Plant Additions Repairs Tax Basis Method Life Basis Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation Repairs Related NOL Repairs Book Depreciation Repairs Tax Deduction VOL Related to Repairs  Method Life Related NOL Method Life Related Tax Depreciation NOL Related to Method Life Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NOL for ISRS Purposes  Repairs Related  Fotal NOL for ISRS Purposes  Repa	Replacer 2019 (7,317,288)	ments 2020 (28,961,973)	Relocation 2019 (716,795)	Include? No Yes  2020 (72,733)	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053) 0 (179,053) (\$179,053)	2020 52,874, 29,298, 23,576,6 111, 89,4 200,1 111, 29,298, (29,187,6 (107,6 (107,6 (\$107,6 (29,034,2) 20,204 (29,034,2) 23,
Net Operating Loss  Net Plant Additions  Repairs Tax Basis Method Life Basis Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation Repairs Related NOL Repairs Related NOL Repairs Tax Deduction NOL Related to Repairs  Method Life Related NOL Method Life Book Depreciation Accelerated Tax Depreciation NOL Related to Method Life Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Method	Replacer 2019 (7,317,288) 23.8% (1,744,451)	ments 2020 (28,961,973) 23.8% (6,904,572)	Relocation 2019 (716,795) 23.8% (170,885)	Include? No Yes  2020 (72,733) 23.8% (17,340)	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053) (\$179,053)  Total All P. 2019 (8,034,083) 23.8% (1,915,336)	2020 52,874, 29,298, 23,576,6 111, 89,4 200, 111,29,298, (29,187,6 (107,6 (107,6 (\$107,6 (\$20,034, 23, (6,921,6)
Net Operating Loss  Net Plant Additions  Repairs Tax Basis Method Life Basis  Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation  Repairs Related NOL Repairs Book Depreciation  Repairs Tax Deduction  NOL Related to Repairs  Method Life Related NOL Method Life Related Tax Depreciation NOL Related to Method Life Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related NoL  Related Tox Life NoL  Repairs Method Life  Repairs NoL  Repairs Method Life  Repairs NoL	Replacer 2019 (7,317,288) 23.8% (1,744,451) 175,239	ments 2020 (28,961,973) 23.8% (6,904,572) 104,772	Relocation 2019 (716,795) 23.8% (170,885) 3,814	Include? No Yes  2020 (72,733) 23.8% (17,340) 2,280	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053)  0 (179,053) (\$179,053)  Total All Pt 2019 (8,034,083) 23.8% (1,915,336) 179,053	2020 52,874,7 29,298,1 23,576,6 111,1 89,4 200,5 111,2 29,298,1 (29,187,6 (107,6 (107,6 (\$107,0 (\$107,0 (\$20,034,7 23. (6,921,6 107,6
Net Operating Loss  Net Plant Additions Repairs Tax Basis Method Life Basis Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation Repairs Related NOL Repairs Book Depreciation Repairs Tax Deduction NOL Related to Repairs Method Life Related NOL Method Life Book Depreciation Accelerated Tax Depreciation NOL Related to Method Life Fotal NOL for ISRS Purposes Repairs Related Method Life Related Method Life Related Fotal NOL for ISRS Purposes Repairs Related Method Life Related Fotal NOL for ISRS Purposes Repairs Related Method Life Related Fotal NOL for ISRS Purposes Repairs Related Method Life Related Fotal NOL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Related Method Life Related Fotal NoL for ISRS Purposes Repairs Rel	Replacer 2019 (7,317,288) 23.8% (1,744,451) 175,239 23.8%	ments 2020 (28,961,973) 23.8% (6,904,572) 104,772 23.8%	Relocation 2019 (716,795) 23.8% (170,885) 3,814 23.8%	Include? No Yes  2020 (72,733) 23.8% (17,340) 2,280 23.8%	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053) (\$179,053)  Total All P. 2019 (8,034,083) 23.8% (1,915,336) 179,053	2020 52,874,7 29,298,1 23,576,6 111,1 89,4 200,5 111,2 29,298,1 (29,187,0 (107,0 (\$107,0 (\$107,0 (\$0,0) (\$0
Net Operating Loss  Net Plant Additions  Repairs Tax Basis Method Life Basis  Book Depreciation Allocated to Repiars Book Depreciation Allocated to Method Life Fotal Book Depreciation  Repairs Related NOL Repairs Book Depreciation  Repairs Tax Deduction  NOL Related to Repairs  Method Life Related NOL Method Life Related Tax Depreciation NOL Related to Method Life Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NOL for ISRS Purposes Repairs Related Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related  Fotal NoL for ISRS Purposes  Repairs Related  Method Life Related NoL  Related Tox Life NoL  Repairs Method Life  Repairs NoL  Repairs Method Life  Repairs NoL	Replacer 2019 (7,317,288) 23.8% (1,744,451) 175,239	ments 2020 (28,961,973) 23.8% (6,904,572) 104,772	Relocation 2019 (716,795) 23.8% (170,885) 3,814	Include? No Yes  2020 (72,733) 23.8% (17,340) 2,280	2019 14,265,220 7,904,425 6,360,795 67,324 54,177 121,501 67,324 7,904,425 (7,837,101) 54,177 233,229 (179,053)  0 (179,053) (\$179,053)  Total All Pt 2019 (8,034,083) 23.8% (1,915,336) 179,053	52,874,7 29,298,1 23,576,6 111,1 89,4 200,5 111,2 29,298,1 (29,187,0 (107,0 (\$107,0

#### **Missouri-American Water Company** ISRS #20 **Tariff Rates**

Schedule BWL-2 page 3 of 7

1
2
3
4
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	ISRS Revenue	Customer	Required Rate
	Requirement	Usage (000g) 1	per 1,000 Gallons
Rate A	\$9,712,135	32,207,358	\$0.30155
Rate B	3,853	1,609,828	\$0.00239
Rate J	9,699	4,227,969	\$0.00229
Total	\$9,725,687	38,045,155	

<sup>1</sup> Per billing determinants in Case WR-2017-0285

9	
10	

	Current	Adjustment to	Proposed
	Rate	<b>Current Rate</b>	Rate
Rate Per 1,000 Gallons			
Rate A	\$0.66132	\$0.30155	\$0.96287
Rate B	\$0.01224	\$0.00239	\$0.01463
Rate J	\$0.01170	\$0.00229	\$0.01399

	Current Rate	Adjustment to Current Rate	Proposed Rate
Rate Per 100 Gallons			
Rate A	\$0.06613	\$0.03016	\$0.09629
Rate B	\$0.00122	\$0.00024	\$0.00146
Rate J	\$0.00117	\$0.00023	\$0.00140

1	Property Tax Estimate - St. Louis County				
2	Year Placed in Service	2018	2019	2020	Total
3	Vintage Year	2	1	N/A	
4					
5	Plant Additions				
6	WO-2018-0373	64,158,929	0	0	
7	WO-2019-0184	17,767,926	48,399,714	0	
8	WO-2019-0389	0	54,449,158	0	
9	WO-2020-0190	0	14,265,220	52,874,788	
10	Total Investment	81,926,855	117,114,092	52,874,788	
11	% Good	89.031%	96.250%	N/A	
12	Subtotal	72,940,298	112,722,314	N/A	
13					
14	Retirements				
15	WO-2018-0373	(3,802,317)	0	0	
16	WO-2019-0184	(1,387,596)	(1,921,839)	0	
17	WO-2019-0389	0	(8,983,004)	0	
18	WO-2020-0190	0	(2,219,408)	(10,096,408)	
19	Total Retirements	(5,189,913)	(13,124,251)	(10,096,408)	
20	% Good	20.000%	20.000%	N/A	
21	Subtotal	(1,037,983)	(2,624,850)	N/A	
22					
23	Net Plant to be Assessed	71,902,316	110,097,464	N/A	
24	Assessment Rate	32.000%	32.000%	32.000%	
25	Assessed Value	23,008,741	35,231,188	N/A	
26	Tax Rate	11.140%	11.140%	11.140%	
27	Tax Due on ISRS Investment	2,563,174	3,924,754	N/A	
28					
29	Due within 12 months from filing?	Yes	Yes	No	
30				<u> </u>	
31	Property Tax Expense to Include in ISRS (Due within 12 Months)				6,487,928
32					
33	Property Tax Allowed in Prior ISRS				2,739,145
34					
35	Net Incremental Property Tax Included in This ISRS				3,748,783

#### 20 Year MACRS Table

Year	MACRS	% Good
1	3.750%	96.250%
2	7.219%	89.031%
3	6.677%	82.354%
4	6.177%	76.177%
5	5.713%	70.464%
6	5.285%	65.179%
7	4.888%	60.291%
8	4.522%	55.769%
9	4.462%	51.307%
10	4.461%	46.846%
11	4.462%	42.384%
12	4.462%	37.922%
13	4.461%	33.461%
14	4.462%	28.999%
15	4.461%	24.538%
16	4.461%	20.077%
17	4.462%	20.000%
18	4.461%	20.000%
19	4.462%	20.000%
20	4.461%	20.000%
21	2.231%	20.000%

Notes: 1) MACRS % from IRS Publication 946, Table A-1

<sup>2)</sup> There is a 20% floor on the % Good

	Base Revenues	Share of
	WR-2017-0285	Base Revenue
Rate A Customers	\$194,983,761	94.64%
Rate B Customers	3,141,065	1.52%
Rate J Customers	7,906,028	3.84%
Total	\$206,030,853	100.00%

	Plant	Share of
	Additions	Plant Additions
Mains Less Than or Equal to 12"	\$60,040,975	89.427%
Hydrants	5,354,234	7.975%
Subtotal - Small Mains and Hydrants	65,395,209	97.401%
Mains Greater than 12"	1,744,800	2.599%
Total	\$67,140,009	100.000%

	Share of Small	Share of
	Mains & Hydrants	Large Mains
Rate A Customers	100.000%	94.638%
Rate B Customers	0.000%	1.525%
Rate J Customers	0.000%	3.837%
Total	100.000%	100.000%

	Share of ISRS	Base Revenues	Percent
	Revenues	WR-2017-0285	Increase
Rate A Customers	9,712,135	194,983,761	4.981%
Rate B Customers	3,853	3,141,065	0.123%
Rate J Customers	9,699	7,906,028	0.123%
Total	9,725,687	206,030,853	4.721%

# Missouri-American Water Company ISRS #20 Net Contributions

Total

(\$236,732)

\$1,089

(\$235,642)

Mains, Valves and Hydrant Replacements	Oct-19 - Mar-20	Apr-20 - May-20	Total
Reimbursements	(\$4,731)	\$0	(\$4,731)
Amortization	\$33	\$0	\$33
Net CIAC	(\$4,698)	\$0	(\$4,698)

Oct-19 - Mar-20

(\$236,732)

\$1,089

(\$235,642)

Apr-20 - May-20

\$0

\$0

\$0

0	
9	Relocations
10	Reimbursements
11	
12	Amortization
13	
14	Net CIAC

#### **Net Depreciation Expense**

1		Replacements	Relocations	Total
2	Base Depreciation Expense	\$931,664	\$26,210	\$957,874
3				
4	Reimbursements' Amortization	(66)	(3,291)	(3,356)
5				
6	Depreciation Expense Associated with Retirements			(177,386)
7				
8	Net Depreciation Expense			\$777,132

### MAWC ISRS Private Letter Ruling Summary Worksheet

	ISRS 17	ISRS 18	ISRS 19
Commission Ordered ISRS	6,377,959	8,878,845	6,112,222
Modified Revenue Requirement	6,385,800	8,886,775	6,116,773
Required Adjustment	7,841	7,930	4,551
Effective Date	12/15/18	06/15/19	12/21/19
End Date	12/21/20	12/21/20	12/21/20
Days in Effect	738	556	367
Total	15,854	12,080	4,576
Subtotal			32,509
Carrying Costs			2,819
Grand Total			35,328

#### Missouri-American Water Company ISRS #17 Revenue Requirements Calculation St. Louis County Operations

Task Orders Placed in Service (TOPS):  STLC-Replacement Mains and Associated Valves and Hydrants Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8a)  Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b): Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A Rate B	
Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8a)  Water Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo 393.1000 (8b): Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Requirement Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8a)  Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b): Task Orders Placed in Service (TOPS): STIC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STIC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$62,895,
Total Net 393.1000 (8a)  Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b): Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A Rate A Rate A Rate Rate Rate Rate Rate Of Revenue Requirement  Allocation of Revenue by Class Rate A Rate A Rate A Rate Rate Rate Rate Rate Rate Rate A Rate Rate Rate Rate Revenue Requirement	(2,
Total Net 393.1000 (8a)  Water Utility Plant Projects-Main Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS):  STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects-Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Proporty Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	(8,808)
Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	(425)
Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$53,659,
STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects-Facilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STIC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue by Class Rate A	
Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STIC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue by Class Rate A	
Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue by Class Rate A	
Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$1,263,
Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	(1,052)
Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS	(29)
Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS  Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	(6,
Accumulated Depreciation - Prior ISRS	(0)
Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$175,
Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Total  Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Total ISRS Rate Base  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$53,834,
Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	<del>+00,00</del> .,
Revenue Requirement on Capital Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	9
Depreciation Expense Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Property Taxes ISRS 17 Revenue Cap Adjustment  Total Revenue Requirement  Adjustments:     Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$5,081,
Revenue Cap Adjustment  Total Revenue Requirement  Adjustments:     Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	826,
Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	\$5,908,
Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	
Adjusted Total Revenue Requirement  Allocation of Revenue by Class Rate A	477
Allocation of Revenue by Class Rate A	477,
Allocation of Revenue by Class Rate A	\$6,385,
Rate A	,دەد,ەد
Rate A	
	\$6,375
Nate D	2,
Rate J	7,
	,,

## Missouri-American Water Company ISRS #17 Deferred Taxes

	Replacem	nents	Relocat	ions	Total All P	roperty
	2018	2019	2018	2019	2018	201
Plant Additions						
Plant Additions	62,895,855	-	1,263,074	-	64,158,929	
Contributions	(2,337)	-	(1,059,928)	-	(1,062,265)	
Net Plant Additions	62,893,518	-	203,146	-	63,096,664	
Total Tax Depreciation Items						
Repairs Deduction						
Net Plant Additions	62,893,518	-	203,146	-	63,096,664	
Repairs %	55.4%		55.4%		24.002.450	
Total Repairs Deduction	34,849,591	-	112,564	-	34,962,156	
Bonus Depreciation						
Net Plant Additions After Repairs	28,043,927	-	90,582	-	28,134,509	
Bonus Depreciation %	0.0%		0.0%	0.0%		
Total Bonus Depreciation	-	-	-	-	•	
Regular Depreciation						
Net Plant Additions After Repairs and Bonus	28,043,927	-	90,582	-	28,134,509	
'ear 1 Depreciation Rate	2.0%	2.0%	2.0%	2.0%		
Months Included	11.0		11.0			
Total Regular Depreciation	514,139	-	1,661	-	515,799	
Total Tax Deductions	35,363,730	-	114,225	-	35,477,955	
Total Book Depreciation Items						
det Bank Banna dettan						
Net Book Depreciation	425.070		C C22		422.500	
Book Depreciation	425,978	-	6,622	-	432,599	
Sook Amortization  Total Net Book Depreciation	(19) <b>425,959</b>	-	(7,878) (1,257)	-	(7,897) <b>424,702</b>	
otal Net Book Depreciation	423,333	-	(1,237)	-	424,702	
Book/Tax Depreciation Temporary Difference	(34,937,771)	-	(115,481)	-	(35,053,253)	
Total per Type of Property		(34,937,771)		(115,481)		(35,0
% per Type of Property		99.671%		0.329%		100
Net Operating Loss						
					2018	201
Net Plant Additions					63,096,664	
Repairs Tax Basis					34,962,156	
Method Life Basis					28,134,509	
Book Depreciation Allocated to Repairs					235,329	
Book Depreciation Allocated to Method Life					189,373	
Total Book Depreciation					424,702	
Repairs Related NOL					235,329	
Repairs Book Depreciation					34,962,156	
Repairs Book Depreciation Repairs Tax Deduction					34,962,156 (34,726,826)	
Repairs Book Depreciation Repairs Tax Deduction NOL Related to Repairs						
Repairs Related NOL Repairs Book Depreciation Repairs Tax Deduction NOL Related to Repairs  Wethod Life Related NOL Method Life Book Depreciation						
Repairs Book Depreciation Repairs Tax Deduction NOL Related to Repairs  Method Life Related NOL  Method Life Book Depreciation Accelerated Tax Depreciation					(34,726,826) 189,373 515,799	
Repairs Book Depreciation Repairs Tax Deduction NOL Related to Repairs Wethod Life Related NOL Wethod Life Book Depreciation					( <b>34,726,826</b> ) 189,373	
Repairs Book Depreciation Repairs Tax Deduction NOL Related to Repairs  Method Life Related NOL  Method Life Book Depreciation Accelerated Tax Depreciation				Include?	(34,726,826) 189,373 515,799	

#### Missouri-American Water Company ISRS #18 Revenue Requirements Calculation St. Louis County Operations

Task Orders Placed in Service (TOPS): STLC-Replacement Mains and Associated Valves and Hydrants SES_15.ER Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8a) SES_697  Water Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo 393.1000 (8b): Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant ProjectsRacilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Racilities Relocations Total Net 393.1000 (8b)  Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c): Task Orders Placed in Service (TOPS): STLC-Relocated Facilities STLC-Relocated Facilities Net Contributions in Aid of Construction Queriered Taxes Accumulated Depreciation Queriered Taxes Accumulated Depreciation - Prior ISRS Queriered Taxes - Prior ISRS Queri	Water Utility Plant ProjectsReplacement Mains, and Associated Valves and Hydrants (RM) RS	SMo 393.1000 (8a):
Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation (30)  Total Net 393.1000 (8a)  S55,697  Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation (29) Accumulated Depreciation (29) Accumulated Depreciation (29) Accumulated Depreciation and Deferred Taxes on investment in Current ISRS Accumulated Depreciation Prior ISRS (544) Deferred Taxes - Prior ISRS (18)  Total (546) Total ISRS Rate Base S55,874  Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense S75,277 Revenue Cap Adjustment Total Revenue Requirement S8,886  Adjustments: Undercollection from ISRS reconciliation Adjusted Total Revenue Requirement S8,886  Allocation of Revenue by Class Rate A Rate B S1,844  Allocation of Revenue by Class Rate A Rate B S1,844  Allocation of Revenue by Class Rate A Rate B S1,844  Allocation of Revenue by Class Rate A Rate B S1,844  Allocation of Revenue by Class Rate B S1,844		(
Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8a)  S55,697  Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STLC-Relocated Facilities Net Contributions in Aid of Construction Deferred Taxes (66) Accumulated Depreciation (7) Total Net 393.1000 (8c)  Accumulated Depreciation (7) Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (18) Deferred Taxes - Prior ISRS (18) Total  Contail ISRS Rate Base S55,876  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital S52,276 Revenue Requirement S8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  Adjusted Total Revenue Requirement S8,886  Adjustments: Undercollection from ISRS reconciliation  Allocation of Revenue by Class Rate A Rate B S1,848 Rate R		\$65,156
Accumulated Depreciation  Total Net 393.1000 (8a)  S55,693  Water Utility Plant Projects—Main Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS):  STIC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STIC-Relocated Facilities S1,011 Net Contributions in Aid of Construction Qeferred Taxes (6c) Accumulated Depreciation (729) Accumulated Depreciation (730) Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (110)  Total Net 393.1000 (8c) S633  Accumulated Depreciation - Prior ISRS (124) Deferred Taxes - Prior ISRS (134) Deferred Taxes - Prior ISRS (145) Deferred Taxes - Prior ISRS (146) Total ISRS Rate Base S55,876  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital S52,277 Depreciation Expense S75,877 Revenue Cap Adjustment  Total Revenue Requirement S8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement S8,886  Allocation of Revenue by Class Rate A S8,848 Rate B S1,844	Net Contributions in Aid of Construction	(10
Total Net 393.1000 (8a)  Water Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS): STIC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STIC-Relocated Facilities \$1,010 Net Contributions in Aid of Construction (29) Deferred Taxes (66) Accumulated Depreciation (7) Total Net 393.1000 (8c)  Accumulated Depreciation (8)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (944: Deferred Taxes - Prior ISRS (11) Total  Total  Total State A Rate Of Return per Last Order  State A Sa,846  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  \$8,886  Allocation of Revenue By Class  Rate A  \$8,846	Deferred Taxes	(9,139
Water Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo 393.1000 (8b):  Task Orders Placed in Service (TOPS):  STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities \$1,011 Net Contributions in Aid of Construction (29) Deferred Taxes (6) Accumulated Depreciation (1)  Total Net 393.1000 (8c)  Accumulated Depreciation Application (1)  Accumulated Depreciation Prior ISRS (544) Deferred Taxes - Prior ISRS (544) Total Net 393.1000 (8c)  Accumulated Depreciation - Prior ISRS (544) Deferred Taxes - Prior ISRS (544) Total ISRS Rate Base S55,874  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital S5,277 Property Taxes Prop	Accumulated Depreciation	(309
Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STLC-Relocated Facilities \$1,011 Net Contributions in Aid of Construction [29] Deferred Taxes (66 Accumulated Depreciation (7) Total Net 393.1000 (8c)  S63:  Accumulated Depreciation - Prior ISRS Accumulated Depreciation - Prior ISRS (544) Deferred Taxes - Prior ISRS (144) Deferred Taxes - Prior ISRS (546) Total  Contributions in Aid of Construction (846) Total ISRS Rate Base (855,874) Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense (877) Property Taxes (878) Property Taxes (878) Property Taxes (878) Property Taxes (878) Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement (88,88)  Adlustments: Adlustments: S8,884 Allocation of Revenue by Class Rate A Rate A S8,884 Allocation of Revenue by Class Rate A Rate B S1,884	Fotal Net 393.1000 (8a)	\$55,697
STLC-Main Cleanings and Relinings Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities S1,001 Net Contributions in Aid of Construction (298 Accumulated Depreciation (506 Accumulated Depreciation (607 Accumulated Depreciation - Prior ISRS Accumulated Depreciation - Prior ISRS Accumulated Depreciation - Prior ISRS (544) Deferred Taxes - Prior ISRS (544) Total ISRS Rate Base S55,872  Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense Property Taxes Property Taxes Property Taxes Property Taxes Property Taxes Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Addiustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adlocation of Revenue by Class Rate A Rate A S8,884  Rate B S1,886	Water Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo 393.1000 (8b):	
Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS): STIC-Relocated Facilities Net Contributions in Aid of Construction (29) Deferred Taxes (66) Accumulated Depreciation (70)  Total Net 393.1000 (8c)  Accumulated Depreciation Accumulated Depreciation - Prior ISRS Accumulated Depreciation - Prior ISRS (544: Deferred Taxes - Prior ISRS (11)  Total (546)  Total ISRS Rate Base S55,874  Overall Pre-Tax Rate Of Return per Last Order Revenue Requirement on Capital Depreciation Expense Revenue Requirement S88,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjustments: Adjustments: Adjustments: Adjustments: Allocation of Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate A S8,884	Task Orders Placed in Service (TOPS):	
Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects-Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STUC-Relocated Facilities Net Contributions in Aid of Construction (298 Accumulated Depreciation (6) Accumulated Depreciation (7) Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (544: Deferred Taxes - Prior ISRS (144: Total ISRS Rate Base (555,874  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Servenue Requirement on Capital Servenue Cap Adjustment  Total Revenue Requirement  Total Revenue Requirement Servenue Requirement Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjustments: Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjustments: Adjustme	STLC-Main Cleanings and Relinings	
Accumulated Depreciation  Total Net 393.1000 (8b)  Water Utility Plant Projects-Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities \$1,010 (290 (290 (290 (290 (290 (290 (290 (29	Net Contributions in Aid of Construction	
Total Net 393.1000 (8b)  Water Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STIC-Relocated Facilities \$1,010	Deferred Taxes	
Mater Utility Plant Projects—Facilities Relocations (FR) RSMo 393.1000 (8c):  Task Orders Placed in Service (TOPS):  STLC-Relocated Facilities \$1,010 Net Contributions in Aid of Construction (296 Deferred Taxes (66) Accumulated Depreciation (70)  Total Net 393.1000 (8c) \$533  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS  Accumulated Depreciation - Prior ISRS (\$441 Deferred Taxes - Prior ISRS (\$450 Total Office of Taxes - Prior ISRS (\$450 Total ISRS Rate Base \$555,876  Overall Pre-Tax Rate Of Return per Last Order \$950 Revenue Requirement on Capital \$52,276 Depreciation Expense \$875 Property Taxes \$2,735 Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adliocation of Revenue by Class Rate A Rate A Rate A S8.844 Rate B	Accumulated Depreciation	
Task Orders Placed in Service (TOPS): STLC-Relocated Facilities \$1,010 Net Contributions in Aid of Construction (238 Deferred Taxes (65 Accumulated Depreciation (77  Total Net 393.1000 (8c) \$637  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (\$443 Deferred Taxes - Prior ISRS (\$445 Deferred Taxes - Prior ISRS (\$44	Total Net 393.1000 (8b)	
Task Orders Placed in Service (TOPS): STLC-Relocated Facilities \$1,010 Net Contributions in Aid of Construction (298 Deferred Taxes (66 Accumulated Depreciation (7)  Total Net 393.1000 (8c) \$633  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (\$443 Deferred Taxes - Prior ISRS (\$445 Deferred Taxes - Prior ISRS (\$44	Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c):	
STLC-Relocated Facilities \$1,010 Net Contributions in Aid of Construction (298 Deferred Taxes (66) Accumulated Depreciation (10)  Total Net 393.1000 (8c) \$633  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (\$443) Deferred Taxes - Prior ISRS (\$445) Deferred Taxes - Prior ISRS (\$460)  Total SRS Rate Base \$55,876  Overall Pre-Tax Rate Of Return per Last Order \$55,876  Revenue Requirement on Capital \$55,276 Depreciation Expense \$77 Property Taxes \$77 Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A \$8,844 Rate B \$110	. , , , , , , , , , , , , , , , , , , ,	
Net Contributions in Aid of Construction Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS  (\$443 Deferred Taxes - Prior ISRS Accumulated Depreciation - Prior ISRS Accumu		\$1.010
Deferred Taxes Accumulated Depreciation  Total Net 393.1000 (8c)  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS (544: Deferred Taxes - Prior ISRS (1846)  Total  Total  Total ISRS Rate Base \$55,874  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Speciation Expense 877  Property Taxes 2,733  Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue Requirement \$8,886  Allocation of Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B		· · · · · · · · · · · · · · · · · · ·
Accumulated Depreciation (7.75 total Net 393.1000 (8c) \$637  Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS (\$44.75 Deferred Taxes - Prior ISRS (\$44.75 Deferred Taxes - Prior ISRS (\$45.75 Deferred Taxes - Prior ISRS Rate Base \$55.874 Deferred Taxes Rate Of Return per Last Order \$55.874 Deferred Taxes Rate Of Return per Last Order \$55.274 Deferred Taxes Requirement on Capital \$55.274 Deferred Taxes \$2.735 Revenue Requirement \$8.886 Deferred Taxes \$2.735 Revenue Cap Adjustment \$8.886 Deferred Total Revenue Requirement \$8.886	Deferred Taxes	
Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS (\$44: Deferred Taxes - Prior ISRS) (18  Total (\$460  Total ISRS Rate Base \$55,876  Overall Pre-Tax Rate Of Return per Last Order \$55,876  Revenue Requirement on Capital \$55,276  Depreciation Expense \$877  Property Taxes \$2,733  Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue Requirement \$8,886  Allocation of Revenue by Class  Rate A \$8,844  Rate B	Accumulated Depreciation	· ·
Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS (\$442 Deferred Taxes - Prior ISRS (18  Total  Total  (\$460 Total ISRS Rate Base \$55,874  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Sproperty Taxes Property Taxes Property Taxes Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B	Total Net 393.1000 (8c)	\$637
Accumulated Depreciation - Prior ISRS Deferred Taxes - Prior ISRS (\$442 Deferred Taxes - Prior ISRS (18  Total  Total SRS Rate Base \$55,874  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital Spyred		
Deferred Taxes - Prior ISRS  Total  Total ISRS Rate Base  S55,874  Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital \$55,274  Depreciation Expense 877  Property Taxes 2,733  Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class  Rate A \$8,844  Rate B	Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS	
Total ISRS Rate Base \$55,874  Overall Pre-Tax Rate Of Return per Last Order \$55,274  Revenue Requirement on Capital \$5,274  Depreciation Expense 873  Property Taxes 2,733  Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class  Rate A \$8,848  Rate B \$8,844	Accumulated Depreciation - Prior ISRS	
Total ISRS Rate Base \$55,874  Overall Pre-Tax Rate Of Return per Last Order \$55,274  Revenue Requirement on Capital \$5,274  Depreciation Expense \$875  Property Taxes \$2,735  Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class  Rate A Rate B	Deferred Taxes - Prior ISRS	(18
Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital \$5,274 Depreciation Expense 877 Property Taxes 2,738 Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A \$8,846 Rate B \$8,844	Total	(\$460
Overall Pre-Tax Rate Of Return per Last Order  Revenue Requirement on Capital \$5,274 Depreciation Expense 875 Property Taxes 2,735 Revenue Cap Adjustment  Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A \$8,846 Rate B \$8,844		
Revenue Requirement on Capital \$5,274 Depreciation Expense 873 Property Taxes 2,739 Revenue Cap Adjustment \$8,886  Adjustments: Undercollection from ISRS reconciliation \$8,886  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A \$8,848 Rate B \$8,844	Fotal ISRS Rate Base	\$55,874
Revenue Requirement on Capital \$5,274 Depreciation Expense 873 Property Taxes 2,735 Revenue Cap Adjustment \$8,886  Adjustments: Undercollection from ISRS reconciliation \$8,886  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A \$8,848 Rate B \$8,848	Overall Pre-Tax Rate Of Return per Last Order	9
Depreciation Expense 873 Property Taxes 2,733 Revenue Cap Adjustment \$8,886  Adjustments: Undercollection from ISRS reconciliation \$8,886  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue Requirement \$8,886  Rate A \$8,846 Rate B	· ·	
Depreciation Expense 873 Property Taxes 2,739 Revenue Cap Adjustment \$8,886  Adjustments: Undercollection from ISRS reconciliation \$8,886  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue Requirement \$8,886  Rate A \$8,848 Rate B	Revenue Requirement on Capital	\$5,274
Revenue Cap Adjustment  Total Revenue Requirement  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement  \$8,886  Allocation of Revenue by Class Rate A Rate B  \$8,846		873
Total Revenue Requirement \$8,886  Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B  \$8,846	Property Taxes	2,739
Adjustments: Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B  \$8,848	Revenue Cap Adjustment	
Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B \$8,848	Total Revenue Requirement	\$8,886
Undercollection from ISRS reconciliation  Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B \$8,848		
Adjusted Total Revenue Requirement \$8,886  Allocation of Revenue by Class Rate A Rate B \$8,848		
Allocation of Revenue by Class Rate A Rate B \$8,848	Undercollection from ISRS reconciliation	
Rate A \$8,848 Rate B 10	Adjusted Total Revenue Requirement	\$8,886
Rate A \$8,848 Rate B 10		
Rate B	Allocation of Revenue by Class	
		\$8,848
Rate J 27		
	Rate B	10

#### Missouri-American Water Company ISRS #18 Deferred Taxes

	Replacements		Relocations		Total All Property	
	2018	2019	2018	2019	2018	201
Plant Additions Plant Additions	17,018,563	40 120 244	740.262	261 471	17 767 026	49.20
riant Additions	17,016,505	48,138,244	749,363	261,471	17,767,926	48,39
Net Plant Additions	17,018,563	48,138,244	749,363	261,471	17,767,926	48,39
Fotal Tax Items						
Repairs Deduction						
Net Plant Additions Repairs %	17,018,563 55.4%	48,138,244 55.4%	749,363 55.4%	261,471 55.4%	17,767,926	48,39
Total Repairs Deduction	9,430,065	26,673,625	415,226	144,882	9,845,291	26,83
Bonus Depreciation						
Net Plant Additions After Repairs	7,588,498	21,464,619	334,138	116,588	7,922,636	21,58
Bonus Depreciation % Total Bonus Depreciation	0.0%	0.0%	0.0%	0.0%		
iotal Bolius Depreciation	-		•	-	•	
Regular Depreciation Net Plant Additions After Repairs and Bonus	7,588,498	21,464,619	334,138	116,588	7,922,636	21,58
ear 1 Depreciation Rate	2.0%	2.0%	2.0%	2.0%	,,522,050	-1,00
Months Included	12.0	5.0	12.0 4.0%	5.0 4.0%		
Year 2 Depreciation Rate  Months Included	4.0% 5.0	4.0%	4.0% 5.0	4.0%		
Total Regular Depreciation	278,245	178,872	12,252	972	290,497	17
Taxable Income - Contributions	(11,011)	-	(153,828)	(146,300)	(164,839)	(14
otal Tax Deductions	9,697,299	26,852,497	273,650	(447)	9,970,949	26,8
otal Book Items						
Juli Dook Hellis						
Net Book Depreciation Book Depreciation	121,248	187,773	5,967	1,516	127,215	1
Book Amortization	(83)	167,775	(1,173)	(705)	(1,257)	1,
Total Net Book Depreciation	121,165	187,773	4,794	812	125,958	18
Book/Tax Depreciation Temporary Difference	(9,576,134)	(26,664,724)	(268,856)	1,258	(9,844,990)	(26,6
Net On creating Leas						
Net Operating Loss						
					2018	201
Net Plant Additions					17,767,926	48,39
Consider Tay Racie					0.045.201	26.0
Repairs Tax Basis Method Life Basis					9,845,291 7,922,636	26,83 21,58
Book Depreciation Allocated to Repairs Book Depreciation Allocated to Method Life					69,794 56,164	10
Total Book Depreciation					125,958	18
Repairs Related NOL Repairs Book Depreciation					69,794	10
Repairs Tax Deduction					9,845,291	26,83
NOL Related to Repairs					(9,775,497)	(26,7
Method Life Related NOL  Method Life Book Depreciation					56,164	
Accelerated Tax Depreciation					290,497	17
NOL Related to Method Life					(234,332)	(!
Fotal NOL for ISRS Purposes				Include?		
Total NOL for ISNS Fulposes				No	0	
Repairs Related  Method Life Related				Yes	(234,332)	(9

#### Missouri-American Water Company ISRS #19 Revenue Requirements Calculation St. Louis County Operations

Makey Hillity, Diget Designs - Designs most Mairs and Associated Values and Hadrant, (DAS) De	SNA- 202 1000 (8-)-
Water Utility Plant ProjectsReplacement Mains, and Associated Valves and Hydrants (RM) RS Task Orders Placed in Service (TOPS):	SMo 393.1000 (8a):
STLC-Replacement Mains and Associated Valves and Hydrants	\$54,279,
Net Contributions in Aid of Construction	(1,
Deferred Taxes	(7,610,
Accumulated Depreciation	(301,
Accountance of the condition	(552)
Total Net 393.1000 (8a)	\$46,366,
Water Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo 393.1000 (8b):	
Task Orders Placed in Service (TOPS):	
STLC-Main Cleanings and Relinings	
Net Contributions in Aid of Construction	
Deferred Taxes	
Accumulated Depreciation	
Total Not 302 1000 (9h)	
Total Net 393.1000 (8b)	
Water Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.1000 (8c):	
Task Orders Placed in Service (TOPS):	
STLC-Relocated Facilities	\$169,
Net Contributions in Aid of Construction	(227,
Deferred Taxes	33,
Accumulated Depreciation	(
·	· ·
Total Net 393.1000 (8c)	(\$25,
Accumulated Depreciation and Deferred Taxes on Investment in Current ISRS	
Accumulated Depreciation - Prior ISRS	(\$904,
Deferred Taxes - Prior ISRS	(7,
Total	(\$911,
Total	(3311,
Total ISRS Rate Base	\$45,430,
Overall Pre-Tax Rate Of Return per Last Order	9
Revenue Requirement on Capital	\$4,288,
Depreciation Expense	631,
Property Taxes	
Revenue Cap Adjustment	
Total Revenue Requirement	\$4,919,
Aditional	
Adjustments: Undercollection from ISRS reconciliation	4 407
Onderconection from ISRS reconcination	1,197,
Adjusted Total Revenue Requirement	\$6,116,
Adjusted Total Revenue Requirement	
Allocation of Revenue by Class	
Rate A	\$6,095
Rate B	6,
Rate J	15,
Grand Total Revenues Collected in Proposed ISRS	\$6,116,

30,170,532

(30,003,674)

134,273

323,715

(189,442)

(189,442)

(\$189,442)

0

Include?

No

Yes

0

0

0

0

0

0

0

### Missouri-American Water Company ISRS #19 Deferred Taxes

Repairs Tax Deduction

NOL Related to Repairs

Method Life Related NOL

Method Life Book Depreciation Accelerated Tax Depreciation NOL Related to Method Life

Total NOL for ISRS Purposes Repairs Related

Method Life Related

58

59

60 61

62

63

64

65

66

67

68

	Replacements		Relocations		Total All Property	
	2019	2020	2019	2020	2019	202
Plant Additions						
Plant Additions	54,279,919	-	169,239	-	54,449,158	
Net Plant Additions	54,279,919	-	169,239	-	54,449,158	
Total Tax Items						
Repairs Deduction						
Net Plant Additions	54,279,919	-	169,239	-	54,449,158	
Repairs %	55.4%	55.4%	55.4%	55.4%		
Total Repairs Deduction	30,076,756	-	93,776	-	30,170,532	
Bonus Depreciation						
Net Plant Additions After Repairs	24,203,163	-	75,463	-	24,278,626	
Bonus Depreciation %	0.0%	0.0%	0.0%	0.0%		
Total Bonus Depreciation	-	-	-	-	-	
Regular Depreciation						
Net Plant Additions After Repairs and Bonus	24,203,163	_	75,463	_	24,278,626	
'ear 1 Depreciation Rate	2.0%	2.0%	2.0%	2.0%	,,	
Months Included	8.0	0.0	8.0	0.0		
/ear 2 Depreciation Rate	4.0%	4.0%	4.0%	4.0%		
Months Included	0.0		0.0			
Total Regular Depreciation	322,709	-	1,006	_	323,715	
our regular peprediation	012,700		2,000		020,720	
axable Income - Contributions	(1,023)	-	(228,509)	-	(229,532)	
Total Tax Deductions	30,398,442	-	(133,726)	-	30,264,716	
Total Book Items						
Net Book Depreciation						
Book Depreciation	301,535	-	631	_	302,166	
Book Amortization	(4)	_	(1,031)	_	(1,035)	
Total Net Book Depreciation	301,531	-	(400)	-	301,131	
Book/Tax Depreciation Temporary Difference	(30,096,910)		133,326	_	(29,963,584)	
	(50,550,525)		130,010		(23)300)301)	
Net Operating Loss						
					2019	202
Net Plant Additions					54,449,158	
Repairs Tax Basis					30,170,532	
Method Life Basis					24,278,626	
Book Depreciation Allocated to Repairs					166,858	
Book Depreciation Allocated to Method Life					134,273	
Total Book Depreciation					301,131	
Repairs Related NOL					166.050	
Repairs Book Depreciation					166,858	