

**DATA INFORMATION REQUEST**  
**Missouri-American Water Company**  
**WR-2020-0344**

**Requested From:** Brian LaGrand  
**Date Requested:** 8/5/2020

**Information Requested:**

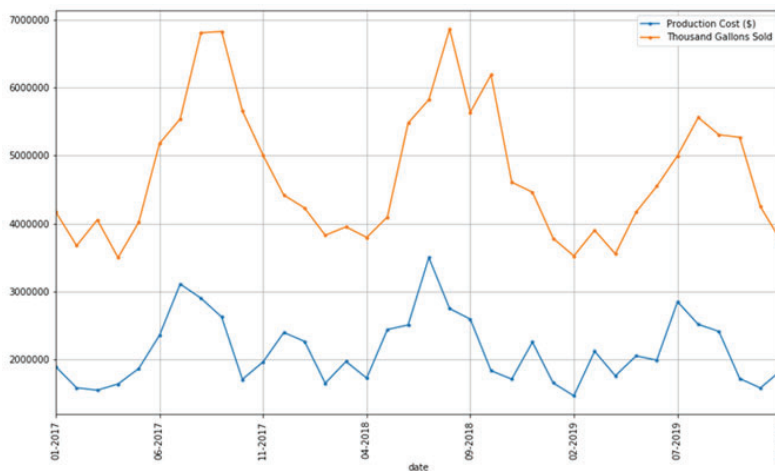
Please provide a detailed list of the power, chemicals, purchased water, and waste disposal costs MAWC is proposing to include in the rate case production costs of its proposed revenue stabilization mechanism (RSM). For each, please provide:

- a) A detailed definition of the cost;
- b) A description of how the cost varies with the amount of water sold;
- c) The major and minor account where the cost is recorded; and
- d) By month, for the time period of January 2017 through December 2019, the cost level, i.e., the aggregate cost of that cost item for the month.

**Requested By:** Lena Mantle - Office of Public Counsel – lena.mantle@opc.mo.gov

**Information Provided:**

- a) Please see Direct Testimony of Todd Wright starting on page 4, line 16 through page 9, line 10 for a detailed definition of each cost.
- b) Costs vary with the amount of water sold as more power is needed to deliver more water, additional chemicals are needed to treat more water, more purchased water is needed if demand is higher, and more waste is created with an increase in water production. See the below chart for a comparison of thousand gallons sold versus production costs which shows that generally as sales rise and fall, the cost of production expenses follows the same trend.



- c) Please see OPC 8003\_Attachment for the accounts where the cost is recorded.
- d) Please see OPC 8003\_Attachment for the total cost for each expense item by month.

Responsible Witness: John Watkins

		2017												2017 Total	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Chemicals	51800000	\$806,962	\$637,615	\$649,652	\$675,551	\$794,856	\$754,659	\$946,499	\$882,897	\$786,138	\$730,042	\$584,215	\$618,604	\$618,604	\$8,867,688
Power	51510011	331,017	359,222	400,547	391,017	396,459	659,791	1,041,778	941,971	796,521	376,681	492,398	400,313	400,313	6,587,714
	51510012	448,068	312,606	284,011	304,479	335,849	553,240	707,468	627,193	618,786	286,725	308,237	337,355	337,355	5,124,016
	51510013	70,603	73,976	63,150	65,074	66,369	78,450	84,040	70,085	85,222	73,078	74,287	76,572	76,572	880,906
	51510014	11,370	10,254	9,307	11,545	11,490	20,162	19,439	17,086	16,259	14,798	13,219	18,300	18,300	173,228
	51510015	205	222	189	(477)	268	316	274	289	294	233	230	235	235	2,277
	51510016	15,056	13,315	13,172	14,588	15,763	20,450	17,274	22,291	18,087	12,152	16,505	16,053	16,053	194,704
	51520000	1,708	297	1,440	513		7,555		395	245	20	(531)	4,855	4,855	16,499
	Grand Total	\$878,027	\$769,892	\$771,816	\$786,740	\$826,198	\$1,339,965	\$1,870,272	\$1,679,309	\$1,535,414	\$763,686	\$904,344	\$853,682	\$853,682	\$12,979,344
Purchased Water	51010000	\$47,616	\$38,760	\$31,519	\$38,757	\$71,960	\$135,510	\$150,931	\$82,146	\$145,975	\$62,097	\$50,434	\$35,495	\$35,495	\$891,200
Waste Disposal	51110000	\$156,945	\$134,822	\$93,528	\$136,504	\$172,724	\$124,413	\$141,798	\$256,335	\$155,922	\$149,982	\$424,251	\$887,974	\$887,974	\$2,835,196
Total Production Costs		\$1,889,549	\$1,581,089	\$1,546,515	\$1,637,551	\$1,865,738	\$2,354,547	\$3,109,499	\$2,900,687	\$2,623,449	\$1,705,806	\$1,963,244	\$2,395,754	\$2,395,754	\$25,573,429

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		2018												2018 Total	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Chemicals	51800000	\$865,061	\$652,735	\$729,874	\$658,695	\$964,562	\$846,346	\$1,021,257	\$852,164	\$790,026	\$744,134	\$576,415		\$725,985	\$9,427,253
Power	51510011	625,949	345,736	445,789	390,495	491,040	736,271	1,029,960	814,752	826,278	403,553	425,604		444,364	6,979,790
	51510012	423,046	292,597	376,835	327,687	417,483	407,568	856,716	540,313	519,697	331,427	273,523		371,570	5,138,460
	51510013	94,041	58,427	86,781	68,796	86,858	84,480	92,554	85,072	71,539	102,189	48,495		79,680	958,912
	51510014	29,301	30,913	35,710	30,765	33,955	38,956	47,570	44,968	33,559	33,301	18,615		24,144	401,756
	51510015	267	224	122	283	290	255	283	265	206	392	74		253	2,915
	51510016	17,836	2,786	9,119	8,822	10,597	13,536	10,734	10,154	7,710	5,861	7,540		9,238	113,934
	51520000	4,525	6,048	2,182	587		(123)	69		89	5,293	(6,420)		5,157	17,407
	Grand Total	\$1,194,965	\$736,729	\$956,538	\$827,434	\$1,040,223	\$1,280,942	\$2,037,886	\$1,495,524	\$1,459,077	\$882,016	\$767,432		\$934,406	\$13,613,174
Purchased Water	51010000	\$79,129	\$40,438	\$44,944	\$33,842	\$166,914	\$158,422	\$203,880	\$123,035	\$122,577	\$46,675	\$68,256		\$118,276	\$1,206,388
Waste Disposal	51110000	\$125,962	\$218,622	\$237,110	\$204,482	\$268,120	\$220,882	\$235,840	\$277,508	\$220,224	\$160,008	\$297,150		\$474,930	\$2,940,837
Total Production Costs		\$2,265,118	\$1,648,523	\$1,968,466	\$1,724,453	\$2,439,819	\$2,506,592	\$3,498,863	\$2,748,231	\$2,591,904	\$1,832,834	\$1,709,253		\$2,253,597	\$27,187,652

		2019												2019 Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Chemicals	51800000	\$741,911	\$685,537	\$883,768	\$732,814	\$883,512	\$765,562	\$963,861	\$913,361	\$793,589	\$752,465	\$579,365	\$701,999	\$9,397,747
Power	51510011	391,491	322,692	364,556	302,888	396,016	543,296	743,225	645,544	642,378	407,408	324,978	362,694	5,447,165
	51510012	306,274	219,925	357,541	342,604	266,947	427,253	597,756	440,416	485,682	292,333	237,995	326,926	4,301,652
	51510013	71,797	60,905	76,201	68,165	62,349	74,825	91,753	72,726	74,086	72,983	57,460	79,240	862,487
	51510014	27,023	27,093	30,122	25,771	27,752	36,550	34,472	48,340	31,028	24,289	20,354	18,239	351,032
	51510015	235	196	272	254	240	273	283	266	269	246	229	245	3,008
	51510016	7,421	7,019	18,895	7,251	5,038	9,888	6,030	7,588	5,734	3,736	5,449	5,853	89,902
	51520000	1,876	23	567	475	419	1,454	172			298	2,031		7,315
	Grand Total	\$806,117	\$637,853	\$848,153	\$747,407	\$758,760	\$1,093,539	\$1,473,690	\$1,214,880	\$1,239,176	\$801,293	\$648,496	\$793,197	\$11,062,561
Purchased Water	51010000	\$77,703	\$40,260	\$67,030	\$78,295	\$103,595	\$84,465	\$83,241	\$107,758	\$118,259	\$85,150	\$92,560	\$61,820	\$1,000,137
Waste Disposal	51110000	\$26,571	\$100,345	\$320,470	\$199,266	\$304,823	\$45,334	\$327,373	\$280,587	\$259,730	\$79,442	\$258,164	\$280,791	\$2,482,895
Total Production Costs		\$1,652,302	\$1,463,995	\$2,119,420	\$1,757,783	\$2,050,691	\$1,988,899	\$2,848,166	\$2,516,586	\$2,410,755	\$1,718,351	\$1,578,585	\$1,837,807	\$23,943,340