

99 Detering Street Suite 120 Houston, Texas 77007 Telephone 713 522 8527

www.thearbitragegroup.com

January 9, 2023

Ms. Na'Son White Comptroller Madison County P.O. Box 608 Canton, Mississippi 39046

> \$8,400,000 Madison County, Mississippi General Obligation Public Improvement Bonds, Series 2020 Interim Rebate Calculation For the Period January 2, 2020 to January 2, 2023

Dear Ms. White:

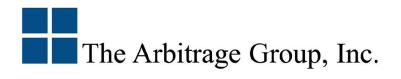
Attached please find a copy of our rebate report for the above noted bonds along with our agreedupon invoice. The report indicates there is no rebate liability as of the January 2, 2023 Interim Rebate Computation Date. Based upon the report and underlying assumptions, no IRS payment or filing is otherwise currently required.

Due to continued investment activity in the Project Fund, we have scheduled the next update for January 2, 2024. We will be in contact at that time. If there are any actual (or anticipated) changes to the Bonds beforehand, please let us know as it may impact the timing and substance of future analyses. We will be in contact at that time. If you have any questions or comments, please do not hesitate to contact me at (713) 522-8527. It has been our pleasure working with your team and we look forward to being of service again in the very near future regarding any other arbitrage rebate compliance or verification service needs.

Very truly yours, The Arbitrage Group, Inc.

H. Jy neuill

H. Troy Merrill Partner



\$8,400,000 Madison County, Mississippi General Obligation Public Improvement Bonds, Series 2020

Rebate Computation for the Period January 2, 2020 to January 2, 2023



99 Detering Street Suite 120 Houston, Texas 77007 Telephone 713 522 8527

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January 9, 2023

Madison County Canton, Mississippi

\$8,400,000 Madison County, Mississippi General Obligation Public Improvement Bonds, Series 2020

Madison County, Mississippi issued the above referenced bonds ("Bonds") dated and delivered on January 2, 2020. At the request of the Madison County ("Borrower"), we have performed the procedures enumerated below for the period January 2, 2020 to January 2, 2023 ("Computation Period"). These procedures, which were agreed to by the Borrower were performed solely to assist the Borrower in evaluating compliance with the requirements of Section 148(f)(2) of the Internal Revenue Code of 1986, as amended ("Code"). This engagement was performed in accordance with standards established by the American Institute of Certified Public Accountants for consulting services. The sufficiency of these procedures is solely the responsibility of the specified users of the report. This report is intended solely for your information and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes. This report is not to be quoted or referred to without our prior written consent.

Our procedures and findings are as follows:

- (1) We read the IRS Form 8038-G ("8038-G"), Tax Compliance and No Arbitrage Certificate ("Certificate"), excerpts from the Official Statement ("OS"), and general ledger account detail ("GL statements"), each provided to us by or on behalf of the Borrower.
- (2) A schedule of the sources and uses of funds (Exhibit A) was assembled based upon the 8038-G, Certificate, and GL statements.
- (3) Schedules of the debt service requirements of the Bonds to maturity, as well as the net original issue premium (Exhibits B-1 and B-2) were assembled based on the OS.
- (4) The yield on the Bonds was computed to be the discount rate that causes the present value of all principal and interest payments on the Bonds to equal the Issue Price to the Public. The yield on the Bonds was computed to be 2.001874% (Exhibit B-1).

The Arbitrage Group, Inc.

Madison County January 9, 2023 Page 2

- A schedule of actual earnings on the nonpurpose investments in the Project Fund ("Trust Fund") purchased with gross proceeds of the Bonds during the Computation Period (Exhibit C) was assembled based on the GL statements.
- (6) The allowable earnings amount on the nonpurpose investments in the Trust Fund was calculated to be the amount that the nonpurpose investments would have earned if they had been invested at a rate equal to the yield on the Bonds of 2.001874% (Exhibit C).
- (7) The arbitrage earnings amounts during the Computation Period for the Trust Fund was calculated to be the difference between the actual earnings and allowable earnings for the nonpurpose investments in the Trust Fund. The arbitrage earnings amounts for the Computation Period are as follows:

		Arbitrage
Trust Fund	Exhibit	Earnings
Project Fund	С	(95,733.54_)
Computation Date Credit	D	(5,679.15)
Total Negative Rebate Liability		(\$101,412.69)

- (8) The assumptions and computational information employed in the above calculations are explained in Exhibit E.
- (9) Based on the information provided to us by the Borrower and the assumptions employed, this report shows there is no rebate liability for the Bonds as of the January 2, 2023 Interim Rebate Computation Date. This amount is subject to change due to future investment activity, if any, subsequent to the end of the Computation Period.

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the information referred to above. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you. The terms of our engagement are such that we have no obligation to update this report because of events and transactions occurring subsequent to the date of this report.

Very truly yours,

The arlitrage Cuoye, Brc.

Exhibits

- A. Sources and Uses of Funds
- B. Computation of Yield on the Bonds
 - B-1. Debt Service Requirements and Proof of Yield on the Bonds
 - B-2. Computation of Net Original Issue Premium
- C. Computation of Arbitrage Earnings on the Project Fund
- D. Computation Date Credit
- E. Assumptions and Computational Information

Sources and Uses of Funds

SOURCES	Series 2020 Bonds
Principal Amount of the Bonds	\$8,400,000.00
Net Original Issue Premium	89,972.05
	\$8,489,972.05
USES	
Project Fund	\$8,443,679.55
Underwriter's Discount	46,292.50
	\$8,489,972.05

Debt Service Requirements and Proof of Yield on the Bonds

		\$8,400,000 Serial Bonds		Debt Service Requirements	Present Value of Future Payments at 01/02/20 Using
Date	Principal	Coupon Rate	Interest	of the Bonds	a Rate of 2.001874%
07/01/20			\$86,550.85	\$86,550.85	\$85,697.86
01/01/21	\$320,000.00	2.000%	87,034.38	407,034.38	399,028.87
07/01/21			83,834.38	83,834.38	81,371.06
01/01/22	320,000.00	2.000%	83,834.38	403,834.38	388,083.98
07/01/22			80,634.38	80,634.38	76,721.53
01/01/23	330,000.00	2.000%	80,634.38	410,634.38	386,836.04
07/01/23			77,334.38	77,334.38	72,130.48
01/01/24	340,000.00	2.000%	77,334.38	417,334.38	385,394.03
07/01/24			73,934.38	73,934.38	67,599.25
01/01/25	350,000.00	2.000%	73,934.38	423,934.38	383,767.90
07/01/25			70,434.38	70,434.38	63,129.06
01/01/26	360,000.00	2.000%	70,434.38	430,434.38	381,967.28
07/01/26			66,834.38	66,834.38	58,721.04
01/01/27	375,000.00	2.000%	66,834.38	441,834.38	384,350.91
07/01/27			63,084.38	63,084.38	54,333.14
01/01/28	385,000.00	2.000%	63,084.38	448,084.38	382,100.32
07/01/28			59,234.38	59,234.38	50,011.06
01/01/29	395,000.00	2.000%	59,234.38	454,234.38	379,705.42
07/01/29			55,284.38	55,284.38	45,755.56
01/01/30	410,000.00	2.000%	55,284.38	465,284.38	381,271.61
07/01/30			51,184.38	51,184.38	41,526.76
01/01/31	420,000.00	2.000%	51,184.38	471,184.38	378,491.45
07/01/31			46,984.38	46,984.38	37,367.44
01/01/32	435,000.00	2.000%	46,984.38	481,984.38	379,531.08
07/01/32			42,634.38	42,634.38	33,239.08
01/01/33	445,000.00	2.000%	42,634.38	487,634.38	376,407.18
07/01/33			38,184.38	38,184.38	29,182.60
01/01/34	460,000.00	2.000%	38,184.38	498,184.38	376,966.61
07/01/34			33,584.38	33,584.38	25,160.82
01/01/35	475,000.00	2.100%	33,584.38	508,584.38	377,246.30

Debt Service Requirements and Proof of Yield on the Bonds

Madison County, Mississippi General Obligation Public Improvement Bonds, Series 2020

		\$8,400,000 Serial Bond		Debt Service Requirements	Present Value of Future Payments at 01/02/20 Using
		Coupon		of the	a Rate of
Date	Principal	Rate	Interest	Bonds	2.001874%
07/01/35			28,596.88	28,596.88	21,001.74
01/01/36	485,000.00	2.125%	28,596.88	513,596.88	373,450.93
07/01/36			23,443.75	23,443.75	16,877.68
01/01/37	500,000.00	2.200%	23,443.75	523,443.75	373,104.41
07/01/37			17,943.75	17,943.75	12,663.34
01/01/38	515,000.00	2.250%	17,943.75	532,943.75	372,383.93
07/01/38			12,150.00	12,150.00	8,405.44
01/01/39	530,000.00	2.250%	12,150.00	542,150.00	371,345.55
07/01/39			6,187.50	6,187.50	4,196.13
01/01/40	550,000.00	2.250%	6,187.50	556,187.50	373,447.18
	\$8,400,000.00		\$2,036,591.63	\$10,436,591.63	\$8,489,972.05
			Dringing 1 Amou	nt of the Donde	¢Q 400 000 00

Principal Amount of the Bonds\$8,400,000.00Net Original Issue Premium89,972.05

\$8,489,972.05

Computation of Net Original Issue Premium

Madison County, Mississippi

General Obligation Public Improvement Bonds, Series 2020

Date	Principal	Coupon Rate	Yield	Price	Purchase Price	Accrued Interest	Original Issue Premium/(Discount)
01/01/21	\$320,000.00	2.000%	1.150%	100.840%	\$322,688.00	\$0.00	\$2,688.00
01/01/22	320,000.00	2.000%	1.170%	101.633%	325,225.60	0.00	5,225.60
01/01/23	330,000.00	2.000%	1.190%	102.378%	337,847.40	0.00	7,847.40
01/01/24	340,000.00	2.000%	1.210%	103.073%	350,448.20	0.00	10,448.20
01/01/25	350,000.00	2.000%	1.270%	103.523%	362,330.50	0.00	12,330.50
01/01/26	360,000.00	2.000%	1.350%	103.732%	373,435.20	0.00	13,435.20
01/01/27	375,000.00	2.000%	1.450%	103.647%	388,676.25	0.00	13,676.25
01/01/28	385,000.00	2.000%	1.550%	103.372%	397,982.20	0.00	12,982.20
01/01/29	395,000.00	2.000%	1.650%	102.915%	406,514.25	0.00	11,514.25
01/01/30	410,000.00	2.000%	1.750%	102.283%	419,360.30	0.00	9,360.30
01/01/31	420,000.00	2.000%	1.862%	101.363%	425,724.60	0.00	5,724.60
01/01/32	435,000.00	2.000%	1.958%	100.452%	436,966.20	0.00	1,966.20
01/01/33	445,000.00	2.000%	2.000%	100.000%	445,000.00	0.00	0.00
01/01/34	460,000.00	2.000%	2.050%	99.394%	457,212.40	0.00	(2,787.60)
01/01/35	475,000.00	2.100%	2.100%	100.000%	475,000.00	0.00	0.00
01/01/36	485,000.00	2.125%	2.150%	99.663%	483,365.55	0.00	(1,634.45)
01/01/37	500,000.00	2.200%	2.200%	100.000%	500,000.00	0.00	0.00
01/01/38	515,000.00	2.250%	2.250%	100.000%	515,000.00	0.00	0.00
01/01/39	530,000.00	2.250%	2.300%	99.233%	525,934.90	0.00	(4,065.10)
01/01/40	550,000.00	2.250%	2.350%	98.411%	541,260.50	0.00	(8,739.50)
	\$8,400,000.00				\$8,489,972.05	\$0.00	\$89,972.05

		Actual Earnings		Total Nonpurpose	Future Value of Total Nonpurpose Investment Activity at 01/02/23 Using a
Date	Principal Amounts	Interest	Gain (Loss)	Investment Activity	Bond Yield of 2.001874%
01/02/20	(\$8,443,679.55)	\$0.00	\$0.00	(\$8,443,679.55)	(\$8,963,634.91)
01/03/20	171,000.00	0.00	0.00	171,000.00	181,520.00
01/06/20	42,724.28	0.00	0.00	42,724.28	45,345.17
01/22/20	16,766.60	0.00	0.00	16,766.60	17,779.38
02/03/20	1,422.11	0.00	0.00	1,422.11	1,507.09
02/25/20	51,160.00	0.00	0.00	51,160.00	54,151.35
03/02/20	1,748.98	0.00	0.00	1,748.98	1,850.52
03/10/20	(156.70)	156.70	0.00	0.00	0.00
04/06/20	100,287.75	0.00	0.00	100,287.75	105,911.10
05/04/20	68,822.08	0.00	0.00	68,822.08	72,568.56
05/15/20	108,050.00	0.00	0.00	108,050.00	113,862.62
05/19/20	400.00	0.00	0.00	400.00	421.42
05/26/20	26,581.00	0.00	0.00	26,581.00	27,993.90
06/01/20	27,186.25	0.00	0.00	27,186.25	28,623.40
06/16/20	5,509.84	0.00	0.00	5,509.84	5,796.29
06/30/20	(38,024.31)	38,024.31	0.00	0.00	0.00
07/06/20	17,490.19	0.00	0.00	17,490.19	18,379.14
07/09/20	610.00	0.00	0.00	610.00	640.89
07/24/20	14,400.00	0.00	0.00	14,400.00	15,116.83
08/03/20	8,705.96	0.00	0.00	8,705.96	9,134.79
08/14/20	7,156.00	0.00	0.00	7,156.00	7,503.91
08/18/20	3,000.00	0.00	0.00	3,000.00	3,145.16
08/24/20	160,500.00	0.00	0.00	160,500.00	168,210.26
09/08/20	9,948.50	0.00	0.00	9,948.50	10,418.34
09/11/20	26,000.00	0.00	0.00	26,000.00	27,223.39
09/18/20	(56,065.52)	56,065.52	0.00	0.00	0.00
09/22/20	55,824.14	0.00	0.00	55,824.14	58,415.30
09/29/20	13,324.00	0.00	0.00	13,324.00	13,937.05
09/30/20	24,790.66	55,179.19	0.00	79,969.85	83,644.74

		Actual Ear	nings	Total Nonpurpose	Future Value of Total Nonpurpose Investment Activity at 01/02/23 Using a
	Principal		Gain	Investment	Bond Yield of
Date	Amounts	Interest	$\frac{(\text{Loss})}{(\text{Loss})}$	Activity	2.001874%
10/12/20	46,571.00	0.00	0.00	46,571.00	48,678.76
11/02/20	10,005.33	0.00	0.00	10,005.33	10,446.59
11/05/20	501,048.00	0.00	0.00	501,048.00	523,058.97
11/20/20	625.00	0.00	0.00	625.00	651.91
12/10/20	12,460.00	0.00	0.00	12,460.00	12,982.20
12/21/20	5,463.22	0.00	0.00	5,463.22	5,688.72
01/12/21	46,917.00	0.00	0.00	46,917.00	48,796.82
01/20/21	126,090.55	0.00	0.00	126,090.55	131,084.58
01/21/21	46,058.00	0.00	0.00	46,058.00	47,879.55
01/25/21	128,556.00	0.00	0.00	128,556.00	133,610.71
01/29/21	(44,166.75)	44,166.75	0.00	0.00	0.00
02/01/21	92,081.53	0.00	0.00	92,081.53	95,670.32
02/08/21	4,990.00	0.00	0.00	4,990.00	5,182.47
02/28/21	(6,012.49)	6,012.49	0.00	0.00	0.00
03/01/21	141,048.26	0.00	0.00	141,048.26	146,302.44
03/02/21	2,920.00	0.00	0.00	2,920.00	3,028.60
03/25/21	100.00	0.00	0.00	100.00	103.58
04/05/21	1,106.63	0.00	0.00	1,106.63	1,145.69
04/20/21	38,061.22	0.00	0.00	38,061.22	39,372.14
04/27/21	251,350.00	0.00	0.00	251,350.00	259,906.44
04/30/21	(2,407.93)	2,407.93	0.00	0.00	0.00
05/03/21	3,323.31	0.00	0.00	3,323.31	3,435.30
05/10/21	33,320.00	0.00	0.00	33,320.00	34,429.50
05/25/21	11,608.00	0.00	0.00	11,608.00	11,984.57
06/07/21	5,357.39	0.00	0.00	5,357.39	5,527.51
06/18/21	(31,166.19)	31,166.19	0.00	0.00	0.00
06/28/21	311,250.00	0.00	0.00	311,250.00	320,761.09
07/06/21	14,785.05	0.00	0.00	14,785.05	15,230.10
07/29/21	79,536.00	0.00	0.00	79,536.00	81,825.96
07/30/21	2,475.53	2,024.47	0.00	4,500.00	4,629.30
08/02/21	62,491.39	0.00	0.00	62,491.39	64,279.94

		Actual Ear	nings	Total Nonpurpose	Future Value of Total Nonpurpose Investment Activity at 01/02/23 Using a
	Principal		Gain	Investment	Bond Yield of
Date	Amounts	Interest	(Loss)	Activity	2.001874%
08/17/21	35,617.98	0.00	0.00	35,617.98	36,607.00
09/07/21	133,608.18	0.00	0.00	133,608.18	137,166.26
09/14/21	72,905.00	0.00	0.00	72,905.00	74,817.52
09/30/21	94,858.23	2,187.39	0.00	97,045.62	99,503.30
10/19/21	1,392.84	0.00	0.00	1,392.84	1,426.61
11/01/21	7,578.49	0.00	0.00	7,578.49	7,757.09
12/03/21	1,000.00	0.00	0.00	1,000.00	1,021.75
12/06/21	110,768.61	0.00	0.00	110,768.61	113,159.83
12/10/21	101,765.00	0.00	0.00	101,765.00	103,938.84
12/21/21	74,428.31	0.00	0.00	74,428.31	75,971.95
01/10/22	10,800.00	0.00	0.00	10,800.00	11,012.40
01/19/22	1,950.36	0.00	0.00	1,950.36	1,987.72
02/04/22	350.00	0.00	0.00	350.00	356.41
02/07/22	6,217.98	0.00	0.00	6,217.98	6,330.80
02/23/22	4,427.50	0.00	0.00	4,427.50	4,503.84
02/25/22	(1,943.19)	1,943.19	0.00	0.00	0.00
03/07/22	30,142.05	0.00	0.00	30,142.05	30,638.08
03/21/22	302,081.00	0.00	0.00	302,081.00	306,814.47
03/28/22	2,200.00	0.00	0.00	2,200.00	2,233.60
04/04/22	123,386.05	0.00	0.00	123,386.05	125,229.34
04/22/22	(1,718.40)	1,718.40	0.00	0.00	0.00
05/02/22	13,996.83	0.00	0.00	13,996.83	14,183.94
05/17/22	157,320.00	0.00	0.00	157,320.00	159,290.79
06/06/22	28,627.17	0.00	0.00	28,627.17	28,955.33
06/20/22	1,392.84	0.00	0.00	1,392.84	1,407.71
07/05/22	39,247.21	0.00	0.00	39,247.21	39,633.47
07/28/22	(1,751.05)	1,751.05	0.00	0.00	0.00
08/02/22	391,125.15	0.00	0.00	391,125.15	394,384.86
08/15/22	2,630.92	0.00	0.00	2,630.92	2,650.93
09/06/22	601,860.94	0.00	0.00	601,860.94	605,736.35
09/30/22	31,999.48	1,558.41	0.00	33,557.89	33,729.15

		Actual Ear	nings	Total Nonpurpose	Future Value of Total Nonpurpose Investment Activity at 01/02/23 Using a
	Principal		Gain	Investment	Bond Yield of
Date	Amounts	Interest	(Loss)	Activity	2.001874%
10/17/22	6,368.47	0.00	0.00	6,368.47	6,394.95
11/07/22	546,837.50	0.00	0.00	546,837.50	548,504.17
11/21/22	21,980.00	0.00	0.00	21,980.00	22,029.91
11/30/22	(11,504.06)	11,504.06	0.00	0.00	0.00
12/05/22	1,404.49	0.00	0.00	1,404.49	1,406.58
12/19/22	1,750.00	0.00	0.00	1,750.00	1,751.25
01/02/23	2,733,570.81	5,000.00	0.00	2,738,570.81	2,738,570.81
01/02/23	0.00	0.00	0.00	(260,866.05)	(260,866.05)
	\$0.00	\$260,866.05	\$0.00	\$0.00	(\$356,599.59)
		Actual Earnin Allowable Ear	-		\$260,866.05 (356,599.59)
		Arbitrage Ear	nings		(\$95,733.54)

Computation Date Credit

Madison County, Mississippi

General Obligation Public Improvement Bonds, Series 2020

	Annual	Future Value of Annual Computation Credit Amounts at 01/02/23 Using a
	Computation	Bond Yield of
Date	Credit	2.001874%
01/02/21 01/02/22 01/02/23	(\$1,780.00) (1,830.00) (1,960.00)	(\$1,852.34) (1,866.81) (1,960.00)
01102120	(\$5,570.00)	(\$5,679.15)
Computati	on Date Credit	(\$5,679.15)

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Assumptions and Computational Information

- (1) Present value and future value computations were made on the basis of a 30/360 day year and semiannual compounding. The Bonds constitute one issue for rebate and yield restriction purposes as detailed in the Certificate. The Bonds have also not been refunded or defeased prior to the end of the Computation Period.
- (2) A bond year ending on January 2nd has been assumed for rebate computation purposes. Therefore, January 2, 2025 is the expected first IRS Installment Computation Date.
- (3) In calculating the bond yield (Exhibit B-1), we have assumed consistent with the Certificate that: (i) there are no includable qualified guarantee or hedge amounts; and, (ii) in calculating the net original issue premium, we utilized applicable prices or yields as detailed in the OS.
- (4) It was assumed that the only funds which were funded and contained gross proceeds of the Bonds were the Project Fund and Bond Fund as represented by the Borrower.
- (5) As detailed in the Certificate, the Project Fund was afforded an initial three-year temporary period with respect to yield. Other than the Bond Fund (as detailed below), there are no other amounts or accounts pledged with respect to debt service on the Bonds to otherwise constitute replacement proceeds as detailed in the Certificate.
- (6) The transaction amounts in the Principal Amounts, Interest, and Gain (Loss) column shown in Exhibit C for each date represent the net transaction activity for that date. Net investment and interest purchases are denoted by parentheses. The Gain (Loss) column represents the net gains and losses, if any, on investments purchased and/or sold at discounts and premiums.
- (7) It was assumed that the purchase price of each investment was at fair market value, did not include brokerage or other acquisition fees, and represented an arm's length transaction which did not reduce the rebate amount to be paid to the United States.
- (8) All amounts withdrawn from the Trust Funds were assumed to be spent for the purpose of the bond issue on the day they were withdrawn.
- (9) Investments outstanding at the end of the Computation Period were assumed to be sold on January 2, 2023 at the purchase price of the investment plus accrued interest to that date.
- (10) The trust statements may indicate that certain amounts in the Trust Funds were uninvested during the Computation Period. The Income Tax Regulations are silent as to the treatment of imputed earnings for uninvested bond proceeds. No interest earnings were imputed on these uninvested amounts.
- (11) The Bond Fund (including any and all related sub-accounts) was excluded from the computation pursuant to Section 148(f)(4)(A)(ii) of the Code which excludes bona fide debt service funds, as defined in Section 1.148-1(b) of the Regulations, from the rebate computation. The Certificate indicates that the Bond Fund is intended to function as a bona fide debt service fund. We have assumed that for the entire Computation Period that this fund has in fact operated as a bona fide debt service fund and that yearly earnings were less than the \$100,000 limitation. As such, this fund has been excluded from the rebate or yield restriction analyses.