

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2021



Submitted by:

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November 5, 2021

Ms. Connie Fulknier City Clerk City of Dunbar 210 12th St. / P.O. Box 483 Dunbar, WV 25064 Captain Matthew Arthur
Pension Board Secretary
City of Dunbar
Policemen's Pension and Relief Fund

Re: City of Dunbar Policemen's Pension and Relief Fund
GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2021

Dear Connie,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Dunbar Policemen's Pension and Relief Fund to be included in the City's financial statements for FY 2021. The GASB 67 information has been provided as of June 30, 2021 (the GASB 68 measurement date for FY 2021).

Methodology, Reliance and Certification

This report is prepared for the City. The report contains the actuarial information to be included with the City's financial statements for the year ending June 30, 2021 (the City's fiscal year end date) as required by GASB 68. This information has been prepared for use in the financial statements of the City. This information is not intended for, nor should it be used for, any additional purposes.

The total pension liability is based on the July 1, 2020 actuarial valuation rolled forward to June 30, 2021. The methods, assumptions, and participant data used are detailed in the July 1, 2020 actuarial valuation report with the exception of the actuarial cost method. These calculations are based on the Entry Age Normal cost method as required by GASB 67. The calculation of the Actuarially Determined Contribution for the fiscal year ending June 30, 2021 is contained in the July 1, 2019 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

The included calculations assume that the members and the City will continue to make all required contributions in accordance with the City's funding policy.

The long-term nominal expected rate of return on pension plan investments was determined using a methodology approved by the Municipal Pensions Oversight Board (MPOB) and is based on the funded status (current and projected), equity exposure, and funding policy.

These calculations and comparisons with assets are applicable for the valuation date only. The future is uncertain, and the plan may become better funded or more poorly funded in the future. This valuation does not provide any guarantee that the plan will be able to provide the promised benefits in the future.

Methodology, Reliance and Certification (cont.)

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. Other assumptions may be equally valid. The future is uncertain and the plan's actual experience will differ from the assumptions; the differences may be significant or material because the results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions. We may consider that some factors are not material to the valuation of the plan and may not provide a specific assumption for those factors. We may have used other assumptions in the past. We will likely consider changes in assumptions at a future date.

The City is responsible for selecting the plan's funding policy based on four methods allowed for under state law. The actuarial valuation methods are chosen by the actuary in accordance with actuarial standards of practice promulgated by the Actuarial Standards Board of the American Academy of Actuaries and as required by GASB 67 & 68. The MPOB selects the asset valuation methods and assumptions; these selections are reviewed by a qualified actuary no less than every five years. The actuary shall provide a report to the Board with recommendations on any changes to the actuarial process. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in this report. The City and MPOB are solely responsible for communicating to Bolton Partners, Inc. any changes required thereto.

The City could reasonably ask how the valuation would change if we used a different assumption set or if plan experience exhibited variations from our assumptions. This report does not contain such an analysis. That type of analysis would be a separate assignment.

The cost of this plan is determined by the benefits promised by the plan, the plan's participant population, the investment experience of the plan and many other factors. An actuarial valuation is a budgeting tool for the City or, in this case, a measure of accounting expense. It does not affect the cost of the plan. As the experience of the plan evolves, it is normal for the level of contributions and expense of the plan to change.

We make every effort to ensure that our calculations are accurately performed. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

Because modeling all aspects of a situation is not possible or practical, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events in an efficient and cost-effective manner. We may also exclude factors or data that are immaterial in our judgment. Use of such simplifying techniques does not, in our judgment, affect the reasonableness of valuation results for the plan.

This report is based on plan provisions, census data, and asset data submitted by the City. We have relied on this information for purposes of preparing this report, but have not performed an audit. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The plan sponsor is solely responsible for the validity and completeness of this information.

The valuation was completed using both proprietary and third-party models (including software and tools). We have tested these models to ensure they are used for their intended purposes, within their known limitations, and without any known material inconsistencies unless otherwise stated.



Ms. Connie Fulknier November 5, 2021 Page 3

Methodology, Reliance and Certification (cont.)

The City is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Bolton Partners, Inc.'s actuaries have not provided any investment advice to the City.

The information in this report was prepared for the internal use of the City, the plan and their auditors in connection with our actuarial valuations of the pension plan as required by GASB 68. This report may not be used for any other purpose; Bolton Partners, Inc. is not responsible for the consequences of any unauthorized use or the reliance on this information by any other party.

The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. For purposes of estimating the liabilities (future and accrued) in this report, an assumption based on the expected long-term rate of return on plan investments is used. If the plan is expected to become insolvent, the return assumption is blended with a long-term municipal bond rate. Using a lower discount rate assumption, such as a rate solely based on long-term bond yields, could substantially increase the estimated present value of future and accrued liabilities.

This report provides certain financial calculations for use by the auditor. These values have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the Plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the plan in the case of plan termination. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status), and changes in plan provisions or applicable law.

The undersigned enrolled actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The July 1, 2020 actuarial valuation report contains information that is integral to the results contained herein and a copy may be provided upon request.

Sincerely,

James Ritchie, ASA, EA, FCA, MAAA

Jordan McClane, FSA, EA, FCA, MAAA



Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2021, were as follows:

Total pension liability	\$	8,392,980
Plan fiduciary net position		(7,413,735)
Employer's net pension liability	\$	979,245
	-	
Plan fiduciary net position as a percentage of the total pension liability		88.33%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2020 rolled forward to June 30, 2021 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation 2.50 percent

Salary increases Rates vary by years of service

Single discount rate (BOY) 6.00% Single discount rate (EOY) 6.00%

Investment rate of return (BOY) 6.00%, net of pension plan investment expense, including inflation Investment rate of return (EOY) 6.00%, net of pension plan investment expense, including inflation

Long-term municpal bond rate (BOY) 2.45% Long-term municpal bond rate (EOY) 1.92%

Mortality SOA PubS-2010(B) with generational projection using Scale MP-2019

Year Fund is projected to be fully funded
Year assets are expected to be depleted
N/A

for a closed plan

The above is a summary of key actuarial assumptions. Full descriptions of the actuarial assumptions are available in the July 1, 2020 actuarial valuation report.

Sensitivity of the net pension liability to changes in the discount rate

	Current								
	Decrease 5.00%	Dis	count Rate 6.00%		Increase 7.00%				
Employer's net pension liability	\$ 2,109,295	\$	979,245	\$	54,996				

City of Dunbar, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2021 Measurement Date



Changes in the Net Pension Liability

	I tal Pension Liability (a)	Pla	ase (Decrease an Fiduciary et Position (b)	•	et Pension Liability (a) - (b)
Balances at 6/30/20	\$ 8,895,250	\$	6,634,153	\$	2,261,097
Changes for the year:					
Service cost	130,732				130,732
Interest	519,769				519,769
Changes of benefit terms	-				-
Differences between expected and actual experience	(125,341)				(125,341)
Changes of assumptions	(562,577)				(562,577)
Contributions - employer (including Premium Tax Allocation)			266,240		(266,240)
Contributions - member			25,799		(25,799)
Net investment income			985,813		(985,813)
Benefit payments, including refunds of member contributions	(464,853)		(464,853)		-
Administrative expense			(33,417)		33,417
Other				_	-
Net Changes	 (502,270)		779,582		(1,281,852)
Balances at 6/30/21	\$ 8,392,980	\$	7,413,735	\$	979,245
Return on Investments			15.1%		





Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2021

Note	Description	Amount
Α	Service cost	\$ 130,732
В	Interest on the total pension liability	519,769
Α	Changes of benefit terms	-
С	Differences between expected and actual experience	(63,918)
С	Changes of assumptions	(271,401)
Α	Employee contributions	(25,799)
D	Projected earnings on pension plan investments	(391,861)
С	Differences between expected and actual earnings on	(159,002)
	plan investments	
Α	Pension plan administrative expense	33,417
Α	Other changes in fiduciary net position	-
	Total Pension Expense	\$ (228,063)

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

B Based on the following calculation:

	A	mount for Period (a)	Portion of Period (b)	Interest Rate (c)	E	rojected arnings x (b) x (c)
Beginning total pension liability	\$	8,895,250	100%	6.00%	\$	533,715
Service cost (End of Year)		130,732	0%	6.00%		-
Benefit payments, including refunds of employee contributions		(464,853)	50%	6.00%		(13,946)
Total interest on the total pension liability					\$	519,769

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	A	Amount for	Portion of	Projected		rojected
		Period	Period	Rate of Return		arnings
		(a)	(b)	(c)	(a)	x (b) x (c)
Beginning plan fiduciary net position	\$	6,634,153	100%	6.00%	\$	398,049
Employer contributions		266,240	50%	6.00%		7,987
Employee contributions		25,799	50%	6.00%		774
Benefit payments, including refunds of employee contributions		(464,853)	50%	6.00%		(13,946)
Administrative expense and other		(33,417)	50%	6.00%		(1,003)
Total Projected Earnings					\$	391,861





Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At June 30, 2021, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	ed Outflows esources	erred Inflows Resources
Differences between expected and actual experience	\$ 50,606	\$ 62,670
Changes of assumptions	-	281,288
Net difference between projected and actual earnings	-	
on pension plan investments		541,848
Total	\$ 50,606	\$ 885,806

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended June 30:	
2022	\$ (434,716)
2023	(152,256)
2024	(129,436)
2025	(118,792)
2026	-
Thereafter	-

Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date

B

Changes in the Employer's Net Pension Liability and Related Ratios Last 10 Fiscal Years

\$	130,732 519,769 -	\$	136,553 501,797	\$	164,702	\$	163,266	\$	204,003	\$	155,496	\$	154,153	\$	158,129	\$	-	\$	
	-		501,797																
					485,653		475,282		458,949		448,843		435,033		424,294		-		
			-		-		-		-		-		-		-		-		
	(125,341)		125,154		35,549		11,381		(295,491)		(42,815)		(15,818)		-		-		
	(562,577)		-		-		-		-		764,273		-		-		-		
	(464,853)		(463,066)		(370,610)		(397,529)		(365,969)		(341,024)		(328,131)		(312,559)		-		
	(502,270)		300,438		315,294		252,400		1,492		984,773		245,237		269,864		-		
	8,895,250		8,594,812		8,279,518		8,027,118		8,025,626		7,040,853		6,795,616		6,525,752		-		
\$	8,392,980	\$	8,895,250	\$	8,594,812	\$	8,279,518	\$	8,027,118	\$	8,025,626	\$	7,040,853	\$	6,795,616	\$	-	\$	
	2021		2020		2019		2018		2017		2016		2015		2014		2013		2012
\$	266.240	\$	279.136	\$	237.840	\$	367.933	\$	311.103	\$	267.563	\$	336.682	\$	247.987	s		\$	
•		7				7		•	38.064	•		•	41.487	-	41,773	•	-	7	
					473.328				412,260		24.629		74.608		504.712		-		
					(370,610)				(365,969)		(341,024)		(328,131)				-		
																	-		
	-		-		(9)		-		373		-		169		-				
\$	779,582	\$	240,111	\$	340,197	\$	263,740	\$	365,807	\$	(37,104)	\$	91,128	\$	444,976	\$	-	\$	
	6,634,153		6,394,042		6,053,845		5,790,106		5,424,299		5,461,403		5,370,275		4,925,299		-		
\$	7,413,735	\$	6,634,153	\$	6,394,042	\$	6,053,845	\$	5,790,106	\$	5,424,299	\$	5,461,403	\$	5,370,275	\$	-	\$	
\$	979,245	\$	2,261,097	\$	2,200,770	\$	2,225,673	\$	2,237,012	\$	2,601,327	\$	1,579,450	\$	1,425,341	\$		\$	
	88.33%		74.58%		74.39%		73.12%		72.13%		67.59%		77.57%		79.03%		0.00%		0.00
\$	337,697	\$	356,236	\$	437,624	\$	427,525	\$	535,150	\$	543,069	\$	522,352	\$	540,997	\$		\$	
	289.98%		634.72%		502.89%		520.59%		418.02%		479.00%		302.37%		263.47%		0.00%		0.00
	\$ \$ \$	8,895,250 \$ 8,392,980 2021 \$ 266,240 25,799 985,813 (464,853) (33,417) \$ 779,582 6,634,153 \$ 7,413,735 \$ 979,245 88,33% \$ 337,697	8,895,250 \$ 8,392,980 \$ 2021 \$ 266,240 \$ 25,799 \$ 985,813 (464,853) (33,417) \$ 779,582 \$ 6,634,153 \$ 7,413,735 \$ \$ 979,245 \$ 88.33% \$ 337,697 \$	8,895,250 8,594,812 \$ 8,392,980 \$ 8,895,250 2021 2020 \$ 266,240 \$ 279,136 25,799 24,377 985,813 431,146 (464,853) (463,066) (33,417) (31,482)	8,895,250 8,594,812 8,392,980 8,895,250 2021 2020 \$ 266,240 \$ 279,136 \$ 25,799 24,377 985,813 431,146 (464,853) (463,066) (33,417) (31,482) \$ 779,582 \$ 240,111 \$ 6,634,153 \$ 6,394,042 \$ 7,413,735 \$ 6,634,153 \$ \$ 979,245 \$ 2,261,097 \$ 88.33% 74.58% \$ 337,697 \$ 356,236 \$	8,895,250 8,594,812 8,279,518 \$ 8,392,980 \$ 8,895,250 \$ 8,594,812 2021 2020 2019 \$ 266,240 \$ 279,136 \$ 237,840 25,799 24,377 29,640 985,813 431,146 473,328 (464,853) (463,066) (370,610) (33,417) (31,482) (29,992) - - (9) \$ 779,582 \$ 240,111 \$ 340,197 6,634,153 6,394,042 6,053,845 \$ 7,413,735 \$ 6,634,153 \$ 6,394,042 \$ 979,245 \$ 2,261,097 \$ 2,200,770 88.33% 74.58% 74.39% \$ 337,697 \$ 356,236 \$ 437,624	8,895,250 8,594,812 8,279,518 \$ 8,392,980 \$ 8,895,250 \$ 8,594,812 \$ 2021 2020 2019 \$ 266,240 \$ 279,136 \$ 237,840 \$ 25,799 24,377 29,640 985,813 431,146 473,328 (464,853) (463,066) (370,610) (29,992) 3779,582 240,111 \$ 340,197 \$ 6,634,153 6,394,042 \$ 6,634,153 \$ 6,394,042 \$ 7413,735 \$ 6,634,153 \$ 6,394,042 \$ 979,245 \$ 2,261,097 \$ 2,200,770 \$ 88.33% 74.58% 74.39% \$ 337,697 \$ 356,236 \$ 437,624 \$	8,895,250 8,594,812 8,279,518 8,027,118 8,392,980 8,895,250 8,594,812 8,279,518 2021 2020 2019 2018 266,240 279,136 237,840 367,933 25,799 24,377 29,640 30,974 985,813 431,146 473,328 292,093 (464,853) (463,066) (370,610) (397,529) (33,417) (31,482) (29,992) (29,731) 7 (9) - 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- 373 - <th< td=""><td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 8,392,980 8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 2021 2020 2019 2018 2017 2016 2015 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 25,799 \$ 24,377 \$ 29,640 \$ 30,974 \$ 38,064 \$ 41,579 \$ 41,487 985,813 \$ 431,146 \$ 473,328 \$ 292,093 \$ 412,260 \$ 24,629 \$ 74,608 (464,853) (463,066) (370,610) (397,529) (365,969) (341,024) (328,131) (33,417) (31,482) (29,992) (29,731) (30,024) (29,851) (33,687) \$ 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 6,634,153 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403 5,370,275</td><td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 \$ 8,392,980 \$ 8,895,250 \$ 8,594,812 \$ 8,279,518 \$ 8,027,118 \$ 8,025,626 \$ 7,040,853 \$ 2021 2020 2019 2018 2017 2016 2015 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 25,799 24,377 29,640 30,974 38,064 41,579 41,487 985,813 431,146 473,328 292,093 412,260 24,629 74,608 (464,853) (463,066) (370,610) (397,529) (365,969) (341,024) (328,131) (33,417) (31,482) (29,992) (29,731) (30,024) (29,851) (33,687) \$ 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 6,634,153 6,634,042 6,653,845 5,790,106 5,424,299 5,461,403 5,370,275 \$ 7,413,735 \$ 6,634,153 \$ 6,394,042</td><td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 8,392,980 8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 2021 2020 2019 2018 2017 2016 2015 2014 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 985,813 431,146 473,328 292,093 412,260 24,629 74,608 504,712 (464,853) (463,066) (370,610) (397,529) (365,969) (341,024) (328,131) (312,559) (33,417) (31,482) (29,992) (29,731) (30,024) (29,851) (33,687) (36,937) 5 779,582 240,111 340,197 263,740 365,807 (37,104) 91,128 444,976 6,634,153<td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 8,392,980 \$ 8,895,250 \$ 8,594,812 \$ 8,279,518 \$ 8,027,118 \$ 8,025,626 \$ 7,040,853 \$ 6,795,616 \$ 2021 2020 2019 2018 2017 2016 2015 2014 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 985,813 431,146 473,328 292,093 412,260 24,629 74,608 504,712 464,853 (463,066) (370,610) (397,529) (365,969) (341,024) (328,131) (312,559) (36,937) - 169 - - 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 444,976 \$ 6,634,153 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403</td><td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 - 2021 2020 2019 2018 2017 2016 2015 2014 2013 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ - 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 - 4(464,853) (463,066) (370,610) (397,529) 365,999 (341,024) (328,131) (312,559) - (33,417) (31,482) (29,992) (29,731) (30,024) (29,851) (33,687) (36,937) - 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 444,976 \$ - 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403 5,370,275 4,925,299 - 7,413,735 \$ 6,634,153 \$ 6</td><td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 - 2021 2020 2019 2018 2017 2016 2015 2014 2013 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ - 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169 - - 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 444,976 \$ 6,634,153 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403</td> <td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 - 2021 2020 2019 2018 2017 2016 2015 2014 2013 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ - 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 - 4(464,853) (463,066) (370,610) (397,529) 365,999 (341,024) (328,131) (312,559) - (33,417) (31,482) (29,992) (29,731) (30,024) (29,851) (33,687) (36,937) - 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 444,976 \$ - 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403 5,370,275 4,925,299 - 7,413,735 \$ 6,634,153 \$ 6</td> <td>8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 - 2021 2020 2019 2018 2017 2016 2015 2014 2013 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ - \$ 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 - 40,629 74,608 504,712 - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - - - - - - - - - - - - - - - - -</td>	8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 8,392,980 \$ 8,895,250 \$ 8,594,812 \$ 8,279,518 \$ 8,027,118 \$ 8,025,626 \$ 7,040,853 \$ 6,795,616 \$ 2021 2020 2019 2018 2017 2016 2015 2014 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 985,813 431,146 473,328 292,093 412,260 24,629 74,608 504,712 464,853 (463,066) (370,610) (397,529) (365,969) (341,024) (328,131) (312,559) (36,937) - 169 - - 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 444,976 \$ 6,634,153 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403	8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 - 2021 2020 2019 2018 2017 2016 2015 2014 2013 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ - 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 - 4(464,853) (463,066) (370,610) (397,529) 365,999 (341,024) (328,131) (312,559) - (33,417) (31,482) (29,992) (29,731) (30,024) (29,851) (33,687) (36,937) - 779,582 \$ 240,111 \$ 340,197 \$ 263,740 \$ 365,807 \$ (37,104) \$ 91,128 \$ 444,976 \$ - 6,634,153 6,394,042 6,053,845 5,790,106 5,424,299 5,461,403 5,370,275 4,925,299 - 7,413,735 \$ 6,634,153 \$ 6	8,895,250 8,594,812 8,279,518 8,027,118 8,025,626 7,040,853 6,795,616 6,525,752 - 2021 2020 2019 2018 2017 2016 2015 2014 2013 \$ 266,240 \$ 279,136 \$ 237,840 \$ 367,933 \$ 311,103 \$ 267,563 \$ 336,682 \$ 247,987 \$ - \$ 25,799 24,377 29,640 30,974 38,064 41,579 41,487 41,773 - 40,629 74,608 504,712 - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - - \$ 26,299 74,608 504,712 - - \$ 26,299 74,608 504,712 - - - - - - - - - - - - - - - - - -

Notes to Schedule:

Benefit changes: There were no changes for FY2021.

Changes of assumptions: Changes were made to salary scale assumptions, pay spiking assumptions, inflation, cost-of-living increases, mortality rates, retirement rates, disability rates, marital status, and non-spouse beneficiary loads.

Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date

Schedule of Employer Contributions

Last 10 Fiscal Years



	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially determined contribution	\$ 273,790	\$ 289,385	\$ 290,874	\$ 259,161	\$ 289,083	\$ 274,669	\$ 188,222	\$ 198,495	\$ 195,880	\$ -
Contributions in relation to the actuarially determined contribution										
Employer provided	123,670	138,401	152,413	183,970	167,225	121,105	124,274	127,598	135,000	-
State provided	142,570	140,735	85,427	183,963	143,878	146,458	212,408	120,389	128,182	-
Contribution deficiency (excess)	\$ 7,550	\$ 10,249	\$ 53,034	\$ (108,772)	\$ (22,020)	\$ 7,106	\$ (148,460)	\$ (49,492)	\$ (67,302)	\$ -
Covered payroll	\$ 337,697	\$ 356,236	\$ 437,624	\$ 427,525	\$ 535,150	\$ 543,069	\$ 522,352	\$ 540,997	\$ 565,602	\$ -
Contributions as a percentage of covered employee payroll	78.84%	78.36%	54.35%	86.06%	58.13%	49.27%	64.46%	45.84%	46.53%	N/A

Notes to Schedule

Valuation date:

Actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. Actuarial valuations are performed every year.

Methods and assumptions used to determine contribution rates:

Actuarial cost method Entry Age Normal
Amortization method Level Dollar
Remaining amortization period 30.5 years
Asset valuation method Market Value
Inflation 2.75 percent

Salary increases Rates vary by years of service

Investment rate of return 6.00%, net of pension plan investment expense, including inflation

Retirement age Rates vary by age

Mortality RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014



Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments

In conformity with paragraph 33b of Statement 68, the effects of differences between projected and actual earnings on pension plan investments are recognized in pension expense using a systematic and rational method over a closed five-year period, beginning in the current reporting period. The following table illustrates the application of this requirement.

Year	Differences between Projected and Actual Earnings on Pension Plan Investments		Recognition Period (Years)	2017	2018	2019	2020	2021	2022	2023	2024	2025
2017	\$	(88,196)	5	\$ (17,639)	(17,639)	(17,639)	(17,639)	(17,640)				
2018		54,463	5		\$ 10,893	10,893	10,893	10,893	10,891			
2019		(114,091)	5			\$ (22,818)	(22,818)	(22,818)	(22,818)	(22,819)		
2020		(53,234)	5				\$ (10,647)	(10,647)	(10,647)	(10,647)	(10,646)	
2021		(593,952)	5					\$ (118,790)	(118,790)	(118,790)	(118,790)	(118,792)
let increa	se (decre	ease) in pension	expense					\$ (159,002)	\$ (141,364)	\$ (152,256)	\$ (129,436)	\$ (118,792)

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Projected and Actual Earnings on Pension Plan Investments

						Balan June 3		
Year	Investment Earnings Less than Projected (a)		Investment Earnings reater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Oi R	Deferred utflows of esources (a) - (c)	Deferred Inflows of Resources (b) - (c)	
2017	\$	-	\$ 88,196	\$ 88,196	\$	-	\$	
2018		54,463	-	43,572		10,891		-
2019		-	114,091	68,454		-		45,637
2020		-	53,234	21,294		-		31,940
2021		-	593,952	118,790		-		475,162
					\$	10,891	\$	552,739

for the June 30, 2021 Measurement Date



Schedule of Differences between Expected and Actual Experience

In conformity with paragraph 33 a of Statement 68, the effects of differences between expected and actual experience are recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2012	2013	2014	2	Increase	e (Decre		nsion Expens	sing from t	cognition of	Differen 2020		ween Expected	ctual Exp	23	21	024	202	25	2026	The	reafter
Prior		-																		-		-			
2012	-	-																							
2013	-	-																							
2014	-	-																							
2015	(15,818)	5.074685					\$	(3,117)		(3,117)	(3,117)	(3,117)	(3,117)		(233)										
2016	(42,815)	5.065546							\$	(8,452)	(8,452)	(8,452)	(8,452)	(8	,452)	(555)									
2017	(295,491)	4.882084									\$ (60,526)	(60,526)	(60,526)	(60	,526)	(53,387)									
2018	11,381	3.674669										\$ 3,097	3,097	3	,097	2,090									
2019	35,549	4.000000											\$ 8,887	8	,887	8,887	8,888								
2020	125,154	3.000000												\$ 41	,718	41,718	41,718								
2021	(125,341)	2.000000														\$ (62,671)	(62,670)								
Net increas	e (decrease) in per	nsion expense														\$ (63,918)	\$ (12,064)	\$ -	\$		\$	-	\$	- \$	-

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Expected and Actual Experience

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Outf Res	Balan June 3 ferred lows of ources - (c)	Deferred Inflows of Resources (b) - (c)		
Prior	\$ -	\$ -	\$ -	\$	-	\$	-	
2012	-	-	-		-		-	
2013	-	-	-		-			
2014		-	-		-			
2015	-	15,818	15,818		-			
2016	-	42,815	42,815		-			
2017	-	295,491	295,491		-		-	
2018	11,381		11,381		-		-	
2019	35,549	-	26,661		8,888			
2020	125,154	-	83,436		41,718			
2021	-	125,341	62,671		-		62,670	
				\$	50,606	\$	62,670	

Actuarial Information to Include in the Financial Statements

for the June 30, 2021 Measurement Date

B

Schedule of Changes of Assumptions

In conformity with paragraph 33a of Statement 68, the effects of changes of assumptions should be recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

		Recognition		Increase (Decrease) in Pension Expense Arising from the Effects of Changes of Assumptions																
Year	Changes of Assumptions	Period (Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2025	2026	Thereaft
Prior	\$ -	-																		
2012	-	-																		
2013	-	-																		
2014		-																		
2015	-	5.074685																		
2016	764,273	5.065546						\$ 150,877	150,877	150,877	150,877	150,877	9,888							
2017	-	4.882084																		
2018	-	3.674669																		
2019	-	4.000000																		
2020		3.000000																		
2021	(562,577)	2.000000											\$ (281,289)	(281,288)						
Net increas	se (decrease) in pen	sion expense											\$ (271,401)	\$ (281,288)	\$	- \$	- \$		\$ -	\$

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Changes of Assumptions

					nces at 30, 2021		
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)		
Prior	\$ -	\$ -	\$ -	\$ -	\$ -		
2012	-	-	-	-	-		
2013	-	-	-	-			
2014		-	-	-	-		
2015	-	-	-	-	-		
2016	764,273	-	764,273	-	-		
2017		-	-	-			
2018		-	-	-			
2019	-	-	-	-	-		
2020	-	-	-	-			
2021	-	562,577	281,289	-	281,288		
		•		\$ -	\$ 281,288		