

January 26, 2024

Board of Trustees City of Dunedin Firefighters' Retirement System

RE: GASB Statements No. 67 and No. 68 – City of Dunedin Firefighters' Retirement System

Dear Board:

We are pleased to present this report of the GASB Statements No. 67 and No. 68 measured as of September 30, 2023 for the City of Dunedin Firefighters' Retirement System.

The calculation of the liability associated with the benefits referenced in this report was performed to satisfy the requirements of GASB No. 67 and No. 68 and is not applicable for other purposes, such as determining the plan's funding requirements. Use of the results for other purposes may not be applicable and may produce significantly different results.

The total pension liability, net pension liability, and certain sensitivity information shown in this report are based on an actuarial valuation performed as of October 1, 2022. The total pension liability was rolled forward from the valuation date to the plan's fiscal year ending September 30, 2023 using generally accepted actuarial principles. It is our opinion that the assumptions used for this purpose are internally consistent, reasonable, and comply with the requirements under GASB No. 67 and No. 68.

In conducting the valuation, we have relied on personnel and plan design information supplied by the City and asset information supplied by the custodian bank. The actuarial assumptions and methods are described in the Assumptions section of this report. While we cannot verify the accuracy of all this information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy of the information and believe that it has produced appropriate results. This information, along with any adjustments or modifications, is summarized in various sections of this report.

In performing the analysis, we used third-party software to model (calculate) the underlying liabilities and costs. These results are reviewed in the aggregate and for individual sample lives. The output from the software is either used directly or input into internally developed models to generate the costs. All internally developed models are reviewed as part of the process. As a result of this review, we believe that the models have produced reasonable results. We do not believe there are any material inconsistencies among assumptions or unreasonable output produced due to the aggregation of assumptions.

To the best of our knowledge, these statements are complete and accurate and are in accordance with generally recognized actuarial practices and methods. Future actuarial measurements may differ significantly from the current measurements presented in this report for a variety of reasons including: changes in applicable laws, changes in plan provisions, changes in assumptions, or plan experience differing from expectations. Due to the limited scope of the valuation, we did not perform an analysis of the potential range of such future measurements.

If there are any questions, concerns, or comments about any of the items contained in this report, please contact us at (293) 433-5500.

Respectfully submitted, Foster & Foster, Inc.

Patrick T. Donlan, ASA, EA, MAAA Enrolled Actuary #23-6595

TABLE OF CONTENTS

Section	Title	Page
I	Summary	5
II	Fiduciary Net Position	
	a. Statement of Fiduciary Net Position	7
	b. Statement of Changes in Fiduciary Net Position	8
III	GASB Exhibits	
	 Schedule of Changes in Net Pension Liability and Related Ratios 	10
	b. Sensitivity to Changes in Discount Rate	11
	c. Pension Expense and Deferred Flows	12
IV	Supplementary GASB 68 Expense Detail	15
V	Additional Information	
	a. Schedule of Contributions	21
	b. Investment Disclosures	22
	c. Assumptions	23
	d. Summary of Current Plan	25

I. SUMMARY

Valuation Date		10/01/2022			10/01/2021
GASB 67/68 Measurement Date		09/30/2023			09/30/2022
GASB 68 Reporting Date		09/30/2024			09/30/2023
Plan Membership:					
Inactives Currently Receiving Benefits		61			55
Inactives Not Yet Receiving Benefits		9			6
Active Plan Members		44	-		45
Total		114			106
Covered Payroll	\$	3,349,227	S	5	3,321,233
Net Pension Liability					
Total Pension Liability	\$	39,487,861	9	5	37,529,297
Plan Fiduciary Net Position		33,238,635	_		31,388,683
Net Pension Liability	\$	6,249,226	S	5	6,140,614
Plan Fiduciary Net Position					
As a Percentage of Total Pension Liab	oility	84.17%			83.64%
Net Pension Liability					
As a Percentage of Covered Payroll		186.59%			184.89%
Total Pension Expense	\$	2,653,984	S	5	1,761,857
Development of Single Discount Rate					
Single Discount Rate		7.25%			7.25%
Long-Term Expected Rate of Return		7.25%			7.25%
High-quality Municipal Bond Rate Number of Years Future Benefit Paymen	ts	4.87%			1.93%
Are Expected to be Paid	-5	All Years			All Years

II. FIDUCIARY NET POSITION

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2023

ASSETS	MARKET VALUE
Cash and Cash Equivalents:	
Short Term Investments	880,267
Prepaid Expenses	1,334
Cash	129
Total Cash and Equivalents	881,730
Receivables:	
State Contributions	71,604
Investment Income	84,192
Total Receivables	155,796
Investments:	
U. S. Bonds and Bills	4,987,302
Federal Agency Guaranteed Securities	1,533,707
Corporate Bonds	2,232,718
Stocks	9,488,582
Mutual Funds:	
Equity	11,160,044
Pooled/Common/Commingled Funds:	
Real Estate	2,973,220
Total Investments	32,375,573
Total investments	52,515,515
Total Assets	33,413,099
LIABILITIES	
Payables:	6.021
Share Plan Distributions	6,931
Investment Expenses	26,594
Administrative Expenses DROP Plan Distributions	1,381
DROP Plan Distributions	139,558
Total Liabilities	174,464
NET POSITION RESTRICTED FOR PENSIONS	33,238,635

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2023 Market Value Basis

ADDITIONS Contributions:		
Member	184,208	
Buy-Back	56,250	
City	560,275	
State	437,034	
Total Contributions		1,237,767
Investment Income:		
Net Increase in Fair Value of Investments	2,297,414	
Interest & Dividends	909,368	
Less Investment Expense ¹	(137,448)	
Net Investment Income		3,069,334
Total Additions		4,307,101
<u>DEDUCTIONS</u>		
Distributions to Members:		
Benefit Payments	1,904,075	
Lump Sum DROP Distributions	376,739	
Lump Sum Share Distributions	48,413	
Refunds of Member Contributions	17,203	
Total Distributions		2,346,430
Administrative Expense		110,719
Total Deductions		2,457,149
Net Increase in Net Position		1,849,952
NET POSITION RESTRICTED FOR PENSIONS		
Beginning of the Year		31,388,683
End of the Year		33,238,635

¹ Investment related expenses include investment advisory, custodial and performance monitoring fees.

III. GASB EXHIBITS

SCHEDULE OF CHANGES IN NET PENSION LIABILITY

GASB 67/68 Measurement Date		09/30/2023	09/30/2022		09/30/2021
GASB 68 Reporting Period Ending		09/30/2024	09/30/2023		09/30/2022
Total Pension Liability					
Service Cost		801,990	777,458		833,104
Interest		2,693,960	2,536,334		2,433,871
Share Plan Allocation		115,488	49,644		54,321
Changes in Benefit Terms		0	0		0
Experience Gains/Losses		637,306	752,714		(148,847)
Changes of Assumptions		0	0		1,152,682
Contributions – Buy Back		56,250	0		0
Benefit Payments		(2,346,430)	(1,586,627)		(1,887,729)
Net Change in Total Pension Liability	'	1,958,564	 2,529,523		2,437,402
Total Pension Liability – Beginning		37,529,297	 34,999,774		32,562,372
Total Pension Liability – Ending (a)	\$	39,487,861	\$ 37,529,297	\$	34,999,774
Plan Fiduciary Net Position		5.00.055	71 0.001		555.056
Contributions – Employer		560,275	518,801		555,076
Contributions – State		437,034	349,243		355,479
Contributions – Employee		184,208	182,669		182,933
Contributions – Buy Back		56,250	0		0
Net Investment Income		3,069,334	(5,306,179)		5,924,254
Benefit Payments		(2,346,430)	(1,586,627)		(1,887,729)
Administrative Expense		(110,719)	(80,633)		(92,221)
Other		0	 0		0
Net Change in Plan Fiduciary Net Position		1,849,952	(5,922,726)		5,037,792
Plan Fiduciary Net Position – Beginning		31,388,683	37,311,409		32,273,617
Adjustment to beginning of year		0	 0	_	0
Plan Fiduciary Net Position – Ending (b)	\$	33,238,635	\$ 31,388,683	\$	37,311,409
Net Pension Liability – Ending (a) – (b)	\$	6,249,226	\$ 6,140,614	\$	(2,311,635)
Plan Fiduciary Net Position					
As % of Total Pension Liability		84.17%	83.64%		106.60%
Covered Payroll	\$	3,349,227	\$ 3,321,233	\$	3,326,112
Net Pension Liability					
As % of Covered Payroll		186.59%	184.89%		-69.50%
110 / 0 01 00 1010 11 11/1011		100.5770	101.0770		07.5070

SENSITIVITY TO CHANGES IN DISCOUNT RATE

GASB 67/68 Measurement Date	09/30/2023		09/30/2022
GASB 68 Reporting Date	09/30/2024	(09/30/2023
Discount Rate	7.25%		7.25%
+ 1% Discount Rate	8.25%		8.25%
- 1% Discount Rate	6.25%		6.25%
Sponsor's Net Pension Liability			
Current Discount Rate	\$ 6,249,226	\$	6,140,614
1% Increase in Discount Rate	2,650,192		2,702,014
1% Decrease in Discount Rate	10,549,159		10,240,573

FINAL PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS YEAR-END SEPTEMBER 30, 2023

For the year ended September 30, 2023, the Sponsor will recognize a Pension Expense of \$1,761,857. On September 30, 2023, the Sponsor reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between actual and		
expected experience	564,537	195,384
Changes of assumptions	576,342	64,222
Net difference between projected and actual earnings		
on pension plan investments	4,232,973	0
Employer and State contributions subsequent to the measurement date	997,309	 0
Total \$	6,371,161	\$ 259,606

The outcome of the deferred outflows of resources related to pensions resulting from Employer and State contributions subsequent to the measurement date has been recognized as a reduction of the Net Pension Liability in the year ended September 30, 2023.

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

Vear-er	ded	Septem	her	30.
T ear-er	исси	Seblem	1)(:1	DU.

2024	\$ 1,355,760
2025	\$ 1,082,140
2026	\$ 1,078,565
2027	\$ 1,597,781
2028	\$ 0
Thereafter	\$ 0

PRELIMINARY PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS YEAR-END SEPTEMBER 30, 2024

For the year ended September 30, 2024, the Sponsor will recognize a Pension Expense of \$2,653,984. On September 30, 2024, the Sponsor reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflow of Resource	
Differences between actual and	Of Resource	5 Of Resources
expected experience	854,33	9 80,638
Changes of assumptions	288,17	32,111
Net difference between projected and actual earnings		
on pension plan investments	2,536,422	2 0
Employer and State contributions subsequent to the measurement date	TBI	0
Total	\$ TBI	\$ 112,749

The outcome of the deferred outflows of resources related to pensions resulting from Employer and State contributions subsequent to the measurement date will be recognized as a reduction of the Net Pension Liability in the year ended September 30, 2024.

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

2025	\$ 1,073,896
2026	\$ 1,070,321
2027	\$ 1,589,537
2028	\$ (167,571)
2029	\$ 0
Thereafter	\$ 0

IV. SUPPLEMENTARY GASB 68 EXPENSE DETAIL

FINAL COMPONENTS OF PENSION EXPENSE YEAR-END SEPTEMBER 30, 2023

-	Net Pension	Deferred	Deferred	Pension
	Liability	Outflows	Inflows	Expense
Beginning Balance	\$ (2,311,635) \$	2,353,732 \$	3,929,878	•
Employer and State Contributions made				
after September 30, 2022	0	997,309	0	0
Total Pension Liability Factors:				
Service Cost	777,458	0	0	777,458
Interest	2,536,334	0	0	2,536,334
Share Plan Allocation	49,644	0	0	49,644
Changes in Benefit Terms	0	0	0	0
Experience Gains/Losses	752,714	752,714	0	0
Current Year Amortization	0	(193,896)	(114,746)	79,150
Changes of Assumptions	0	0	0	0
Current Year Amortization	0	(288,171)	(32,111)	256,060
Benefit Payments	 (1,586,627)	0	0	0
Net Change	 2,529,523	1,267,956	(146,857)	3,698,646
Plan Fiduciary Net Position:				
Contributions - Employer	518,801	(518,801)	0	0
Contributions – State	349,243	(349,243)	0	0
Contributions – Employee	182,669	0	0	(182,669)
Projected Net Investment Income	2,682,727	0	0	(2,682,727)
Difference in Projected				,
and Actual Earnings	(7,988,906)	7,988,906	0	0
Current Year Amortization	0	(1,905,510)	(1,057,536)	847,974
Benefit Payments	(1,586,627)	0	0	0
Administrative Expenses	(80,633)	0	0	80,633
Other	0	0	0	0
Net Change	(5,922,726)	5,215,352	(1,057,536)	(1,936,789)
Adjustment to beginning of year	 0	0	0	0
Ending Balance	\$ 6,140,614 \$	8,837,040 \$	2,725,485 \$	1,761,857

PRELIMINARY COMPONENTS OF PENSION EXPENSE YEAR-END SEPTEMBER 30, 2024

	Net Pension Liability	Deferred Outflows	Deferred Inflows	Pension Expense
Beginning Balance			\$ 2,725,485	Expense
Employer and State Contributions made				
after September 30, 2023 ¹	0	TBD	0	0
Total Pension Liability Factors:				
Service Cost	801,990	0	0	801,990
Interest	2,693,960	0	0	2,693,960
Share Plan Allocation	115,488	0	0	115,488
Changes in Benefit Terms	0	0	0	0
Contributions – Buy Back	56,250	0	0	56,250
Experience Gains/Losses	637,306	637,306	0	0
Current Year Amortization	0	(347,504)	(114,746)	232,758
Changes of Assumptions	0	0	0	0
Current Year Amortization	0	(288,171)	(32,111)	256,060
Benefit Payments	(2,346,430)	0	0	0
Net Change	1,958,564	1,631	(146,857)	4,156,506
Plan Fiduciary Net Position:				
Contributions - Employer	560,275	(560,275)	0	0
Contributions – State	437,034	(437,034)	0	0
Contributions – Employee	184,208	0	0	(184,208)
Contributions – Buy Back	56,250	0	0	(56,250)
Projected Net Investment Income	2,231,477	0	0	(2,231,477)
Difference in Projected	, ,			(, , , ,
and Actual Earnings	837,857	0	837,857	0
Current Year Amortization	0	(1,905,509)	(1,046,815)	858,694
Benefit Payments	(2,346,430)	0	0	0
Administrative Expenses	(110,719)	0	0	110,719
Other	0	0	0	0
Net Change	1,849,952	(2,902,818)	(208,958)	(1,502,522)
Adjustment to beginning of year	0		0	0
Ending Balance \$	6,249,226	\$ TBD	\$ 2,369,670	\$ 2,653,984

 $^{^{1}}$ Employer and State contributions made subsequent to the September 30, 2023 measurement date, but made on or before September 30, 2024 need to be added.

AMORTIZATION SCHEDULE – EXPERIENCE

Year		Initial Base	Recognition Period	2023	2024	2025	2026	2027	Thereafter
2023	\$	637,306	4	\$ 0 \$	159,325 \$	159,327 \$	159,327 \$	159,327 \$	0
2022		752,714	4	188,177	188,179	188,179	188,179	0	0
2021		(148,847)	4	(37,212)	(37,212)	(37,212)	0	0	0
2020		(217,129)	5	(43,426)	(43,426)	(43,426)	0	0	0
2019		(170,541)	5	(34,108)	(34,108)	0	0	0	0
2018		28,595	5	5,719	0	0	0	0	0
Net Inc	rease ([Decrease) in Pen	sion Expense	\$ 79,150 \$	232,758 \$	266,868 \$	347,506 \$	159,327 \$	0

AMORTIZATION SCHEDULE – CHANGES OF ASSUMPTIONS

Year		Initial Base	Recognition Period	2023	2024	2025	2026	2027	Thereafter
2021 2020	\$	1,152,682 (160,554)	4 5	\$ 288,171 \$ (32,111)	288,171 \$ (32,111)	288,171 \$ (32,111)	0 \$ 0	0 \$ 0	0
Net Incre	ease (D	ecrease) in Pen	sion Expense	\$ 256,060 \$	256,060 \$	256,060 \$	0 \$	0 \$	0

AMORTIZATION SCHEDULE – INVESTMENTS

Year		Initial	Recognition	2023	2024	2025	2026	2027	Thomaston
		Base	Period	2023					<u>Thereafter</u>
2023	\$	(837,857)	5	\$ 0 \$	(167,573) \$	(167,571) \$	(167,571) \$	(167,571) \$	(167,571)
2022		7,988,906	5	1,597,782	1,597,781	1,597,781	1,597,781	1,597,781	0
2021		(3,536,975)	5	(707,395)	(707,395)	(707,395)	(707,395)	0	0
2020		(859,234)	5	(171,847)	(171,847)	(171,847)	0	0	0
2019		1,538,639	5	307,728	307,728	0	0	0	0
2018		(891,470)	5	(178,294)	0	0	0	0	0
Net Inc	rease (]	Decrease) in Pen	sion Expense	\$ 847,974 \$	858,694 \$	550,968 \$	722,815 \$	1,430,210 \$	(167,571)

V. ADDITIONAL INFORMATION

SCHEDULE OF CONTRIBUTIONS

		Contributions			
		in Relation to			Contrib.
	Actuarially	the Actuarially	Contribution		as %
Plan Year	Determined	Determined	Deficiency	Covered	of Covered
Ended	Contribution	Contributions	(Excess)	Payroll	Payroll
09/30/2023	\$ 869,586	\$ 881,821	\$ (12,235)	\$ 3,349,227	26.33%
09/30/2022	\$ 812,733	\$ 818,400	\$ (5,667)	\$ 3,321,233	24.64%

The following assumptions were used to determine the Actuarially Determined Contribution for the plan year ending September 30, 2023:

Calculation Timing The Actuarially Determined Contribution is calculated using a

October 1, 2021 valuation date.

Interest Rate 7.25%

Assumptions All other assumptions and methods used for determining the

Actuarially Determined Contribution can be found in the October 1, 2021 Actuarial Valuation Report for the City of Dunedin Firefighters' Retirement System prepared by Foster &

Foster Actuaries and Consultants.

INVESTMENT DISCLOSURES

Schedule of Investment Returns

For the year ended September 30, 2023, the annual money-weighted return on Pension Plan investments, net of pension plan investment expense, was 9.96 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

	Annual Money-Weighted Rate of Return
Fiscal Year Ended	Net of Investment Expense
09/30/2023	9.96%
09/30/2022	-14.39%

Support for Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return on Pension Plan investments can be determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Pension Plan investment expenses and inflation) are developed for each major asset class.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by target asset allocation percentage and by adding expected inflation.

Best estimates of arithmetic real rates of return for each major asset class included in the Pension Plan's target asset allocation adopted as of September 30, 2023, as provided by AndCo Consulting, are summarized in the following table:

		Long Term Expected Real
Asset Class	Target Allocation	Rate of Return
Domestic Equity	52.50%	7.50%
International Equity	12.50%	8.50%
Domestic Fixed Income	25.00%	2.50%
Real Estate	10.00%	4.50%
Total	100.00%	

Inflation rate of investment advisor

2.50%

Concentrations

The Plan did not hold investments in any one organization that represent 5 percent or more of the Pension Plan's fiduciary net position.

ASSUMPTIONS

Valuation Date	10/01/2022
GASB 67/68 Measurement Date	09/30/2023
GASB 68 Reporting Date	09/30/2024
Discount Rate	7.25%
Long-Term Rate of Return	7.25%
Mortality	
Healthy Active Lives:	PubS.H-2010 (Below Median) for Employees, set forward one year.
Healthy Retiree Lives:	PubS.H-2010 for Healthy Retirees, set forward one year.
Beneficiary Lives:	Female: PubG.H-2010 for Healthy Retirees. Male: PubG.H-2010 for Healthy Retirees, set back one year.
Disabled Lives:	80% PubG.H-2010 for Disabled Retirees / 20% PubS.H-2010 for Disabled Retirees.
	All rates are projected generationally with Mortality Improvement Scale MP-2018.
	The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman's July 1, 2021 FRS valuation report for special risk employees, with appropriate adjustments made based on plan demographics.
	90% of active deaths are assumed to be service-incurred.
Salary Increases	Service based
Inflation	2.50%
Latest Experience Study Date	August 16, 2021

A summary of other assumptions reflected in the valuation can be found in the October 1, 2022 Actuarial Valuation for the City of Dunedin Firefighters' Retirement System by Foster & Foster Actuaries and Consultants.

Changes in Assumptions

Total Pension Liability and Preliminary GASB 68 Pension Expense measured as of September 30, 2023 reflect no assumption changes.

Development of the Discount Rate

The projection of cash flows used to determine the Discount Rate assumed that current Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member rate.

Based on those assumptions, the Pension Plan's Fiduciary Net Position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the Long-Term Expected Rate of Return on Pension Plan investments (7.25 percent) was applied to all periods of projected benefit payments to determine the Total Pension Liability.

No projected benefit payments were discounted using a high-quality municipal bond rate of 4.87 percent. The high-quality municipal bond rate was based on the daily rate closest to, but not later than the measurement date of the S&P Municipal Bond 20 Year High Grade Rate Index.

The single equivalent Discount Rate was 7.25 percent.

SUMMARY OF CURRENT PLAN

<u>Plan Description</u> The Plan is a single-employer defined benefit pension plan

administered by the Plan's Board of Trustees comprised of: Two Council appointees, two Members of the Plan elected by the membership, and a fifth Member elected by other 4 and appointed

by Council as a ministerial duty.

All actively employed full-time firefighters participate in the Plan

as a condition of employment.

Benefits Provided The Plan provides retirement, termination, disability and death

benefits.

A summary of the benefit provisions can be found in the Actuarial

Valuation as of October 1, 2022 for the City of Dunedin Firefighters' Retirement System prepared by Foster & Foster

Actuaries and Consultants.

Benefit Changes No benefit changes have been reflected since the prior year.

Deferred Retirement Option Program

Eligibility: A member may retire on the first day of the month coincident

with or next following the earlier of: (1) age 52 and 25 years of Credited Service, or (2) age 55 and 10 years of Credited Service, or (3) 20 years of Credited Service regardless of age. Members who meet eligibility must submit a written election to participate

in the DROP.

Benefit The member's Credited Service and FAC are frozen upon entry

into the DROP. The monthly retirement benefit as described under Normal Retirement is calculated based upon the frozen

Credited Service and FAC.

In addition, a supplemental benefit of \$13 per year of Credited Service up to a maximum of \$325 is payable monthly to members who meet the requirements for Normal Retirement and retire. DROP participants do not receive the supplement until actual

termination of employment.

Maximum DROP Period The earlier of 5 years of participation in the DROP or when the

member has completed 30 years of Credited Service.

DROP balance: The DROP balance as of September 30, 2023 is \$892,449.