NORTH BAY FIRE DISTRICT FIREFIGHTERS' PENSION TRUST FUND

ACTUARIAL VALUATION AS OF OCTOBER 1, 2022

CONTRIBUTIONS APPLICABLE TO THE PLAN/FISCAL YEAR ENDING SEPTEMBER 30, 2024

GASB 67/68 DISCLOSURE INFORMATION AS OF SEPTEMBER 30, 2022





November 21, 2022

Board of Trustees North Bay Fire District Firefighters' Pension Board

Re: North Bay Fire District Firefighters' Pension Trust Fund

Dear Board:

We are pleased to present to the Board this report of the annual actuarial valuation of the North Bay Fire District Firefighters' Pension Trust Fund. Included are the related results for GASB Statements No. 67 and No. 68. The funding valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits and to develop the appropriate funding requirements for the applicable plan year. The calculation of the liability for GASB results was performed for the purpose of satisfying the requirements of GASB Statements No. 67 and No. 68. Use of the results for other purposes may not be applicable and may produce significantly different results.

The valuations have been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board, and reflect laws and regulations issued to date pursuant to the provisions of Chapters 112 and 175, Florida Statutes, as well as applicable federal laws and regulations. In our opinion, the assumptions used in the valuations, as adopted by the Board of Trustees, represent reasonable expectations of anticipated plan experience.

The funding percentages and unfunded accrued liability as measured based on the actuarial value of assets will differ from similar measures based on the market value of assets. These measures, as provided, are appropriate for determining the adequacy of future contributions, but may not be appropriate for the purpose of settling a portion or all of its liabilities. 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 valuations, we did not perform an analysis of the potential range of such future measurements.

In conducting the valuations, we have relied on personnel, plan design, and asset information supplied by the North Bay Fire District, financial reports prepared by the custodian bank, and the actuarial assumptions and methods described in the Actuarial 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.

Additionally, 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 that apply the funding and accounting rules to generate the results. All internally developed models are reviewed as part of the valuation 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.

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, 2021. The total pension liability was rolled-forward from the valuation date to the plan's fiscal year ending September 30, 2022 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.

The undersigned are familiar with the immediate and long-term aspects of pension valuations, and meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained herein. All of the sections of this report are considered an integral part of the actuarial opinions.

To our knowledge, no associate of Foster & Foster, Inc. working on valuations of the program has any direct financial interest or indirect material interest in the North Bay Fire District, nor does anyone at Foster & Foster, Inc. act as a member of the Board of Trustees of the Firefighters' Pension Trust Fund. Thus, there is no relationship existing that might affect our capacity to prepare and certify this actuarial report.

If there are any questions, concerns, or comments about any of the items contained in this report, please contact us at 239-433-5500.

Respectfully submitted,

Foster & Foster, Inc.

By:

Joseph L. Griffin, ASA, EA, MAAA

Enrolled Actuary #20-6938

By

Luke M. Schoenhofen, ASA, EA, MAAA

Enrolled Actuary #20-8968

JLG/lke

Enclosures

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SUMMARY OF REPORT

The regular annual actuarial valuation of the North Bay Fire District Firefighters' Pension Trust Fund, performed as of October 1, 2022, has been completed and the results are presented in this Report. The contribution amounts set forth herein are applicable to the plan/fiscal year ending September 30, 2024.

The contribution requirements, compared with those set forth in the October 1, 2021 actuarial valuation report, are as follows:

Valuation Date Applicable to Fiscal Year Ending	10/1/2022 <u>9/30/2024</u>	10/1/2021 <u>9/30/2023</u>
Minimum Required Contribution % of Projected Annual Payroll	\$381,519	29.7%
Member Contributions (Est.) % of Projected Annual Payroll	66,588	5.0%
District And State Required Contribution % of Projected Annual Payroll	314,931	24.7%
State Contribution (Est.) ¹ % of Projected Annual Payroll	123,429	123,429 10.1%
District Required Contribution ² % of Projected Annual Payroll	\$191,502	14.6%

¹ Represents the amount received in calendar 2022. As per a Mutual Consent Agreement between the Membership and the District, all State Monies received each year will be available to offset the District's required contribution.

Plan experience was unfavorable overall on the basis of the plan's actuarial assumptions. Sources of actuarial loss included an investment return of 5.52% (Actuarial Asset Basis) which fell short of the 7.25% assumption and less turnover than expected. These losses were offset in part by a gain associated with an average salary increase of 2.51% which fell short of the 6.16% assumption.

² Please note that the District has access to a prepaid contribution of \$65,648.82 that is available to offset a portion of the above stated requirements for the fiscal year ending September 30, 2023.

CHANGES SINCE PRIOR VALUATION

Plan Changes

There have been no changes in benefits since the prior valuation.

Actuarial Assumption/Method Changes

The funding method was changed from a percentage of payroll to a fixed dollar amount.

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	New Method <u>10/1/2022</u>	Old Method 10/1/2022	<u>10/1/2021</u>
A. Participant Data			
Actives	16	16	15
Service Retirees	2	2	2
Beneficiaries	1	1	1
Disability Retirees	3	3	3
Terminated Vested	7	<u>7</u>	<u>7</u>
Total	29	29	28
Payroll Under Assumed Ret. Age	1,220,835	1,220,835	1,149,295
Annual Rate of Payments to:			
Service Retirees	91,282	91,282	91,282
Beneficiaries	57,356	57,356	57,356
Disability Retirees	38,524	38,524	38,524
Terminated Vested	65,201	65,201	65,201
B. Assets			
Actuarial Value (AVA) ¹	7,068,920	7,068,920	6,553,060
Market Value (MVA) 1	6,288,965	6,288,965	7,211,008
C. Liabilities			
Present Value of Benefits			
Actives			
Retirement Benefits	6,748,544	6,748,544	6,176,283
Disability Benefits	89,336	89,336	84,144
Death Benefits	37,868	37,868	35,495
Vested Benefits	481,993	481,993	454,730
Refund of Contributions	27,222	27,222	25,737
Service Retirees	1,075,849	1,075,849	1,087,344
Beneficiaries	668,158	668,158	674,750
Disability Retirees	451,762	451,762	455,338
Terminated Vested	490,864	490,864	456,080
Share Plan Balances ¹	129 204	120 204	129 204
Excess State Monies Reserve	128,294	128,294	128,294
Total	10,199,890	10,199,890	9,578,195

C. Liabilities - (Continued)	New Method <u>10/1/2022</u>	Old Method <u>10/1/2022</u>	10/1/2021
Present Value of Future Salaries	11,740,106	11,740,106	11,436,347
Present Value of Future			
Member Contributions	587,005	587,005	571,817
Normal Cost (Retirement)	261,222	261,222	246,773
Normal Cost (Disability)	5,252	5,252	4,857
Normal Cost (Death)	1,954	1,954	1,813
Normal Cost (Vesting)	24,365	24,365	23,235
Normal Cost (Refunds)	4,389	4,389	3,733
Total Normal Cost	297,182	297,182	280,411
Present Value of Future			
Normal Costs	2,809,864	2,809,864	2,750,979
Accrued Liability (Retirement)	4,266,268	4,266,268	3,736,872
Accrued Liability (Disability)	40,914	40,914	37,047
Accrued Liability (Death)	20,681	20,681	18,608
Accrued Liability (Vesting)	240,395	240,395	226,273
Accrued Liability (Refunds)	6,841	6,841	6,610
Accrued Liability (Inactives)	2,686,633	2,686,633	2,673,512
Share Plan Balances ¹	0	0	0
Excess State Monies Reserve	128,294	128,294	128,294
Total Actuarial Accrued Liability (EAN AL)	7,390,026	7,390,026	6,827,216
Unfunded Actuarial Accrued			
Liability (UAAL)	321,106	321,106	274,156
Funded Ratio (AVA / EAN AL)	95.7%	95.7%	96.0%

D. Actuarial Present Value of Accrued Benefits	New Method <u>10/1/2022</u>	Old Method <u>10/1/2022</u>	10/1/2021
Vested Accrued Benefits			
Inactives + Share Plan Balances ¹	2,686,633	2,686,633	2,673,512
Actives	1,963,928	1,963,928	1,644,032
Member Contributions	466,531	466,531	406,235
Total	5,117,092	5,117,092	4,723,779
Non-vested Accrued Benefits	436,648	436,648	302,705
Total Present Value			
Accrued Benefits (PVAB)	5,553,740	5,553,740	5,026,484
Funded Ratio (MVA / PVAB)	113.2%	113.2%	143.5%
Increase (Decrease) in Present Value of			
Accrued Benefits Attributable to:			
Plan Amendments	0	0	
Method Changes	0	0	
Plan Experience	0	356,783	
Benefits Paid	0	(187,162)	
Interest	0	357,635	
Other	0	0	
Total	0	527,256	

	New Method	Old Method	
Valuation Date	10/1/2022	10/1/2022	10/1/2021
Applicable to Fiscal Year Ending	9/30/2024	9/30/2024	9/30/2023
E. Pension Cost			
Normal Cost ²	\$324,184		
% of Total Annual Payroll ²		25.2	25.3
Administrative Expenses ²	25,263		
% of Total Annual Payroll ²		2.0	2.2
Payment Required to Amortize			
Unfunded Actuarial Accrued			
Liability over 20 years			
(as of $10/1/2022$) ²	32,072		
% of Total Annual Payroll ²		2.5	2.2
Minimum Required Contribution	381,519		
% of Total Annual Payroll ²		29.7	29.7
Expected Member Contributions ²	66,588		
% of Total Annual Payroll ²		5.0	5.0
Expected District and State Contribution	314,931		
% of Total Annual Payroll ²		24.7	24.7
F. Past Contributions			
Plan Years Ending:	9/30/2022		
District and State Requirement	299,072		
Actual Contributions Made:			
District	175,643		
State	123,429		
Total	299,072		
1 01.61	299,072		
G. Net Actuarial (Gain)/Loss	68,218		

 $^{^{\}rm 1}\,$ The asset values and liabilities include accumulated Share Plan Balances as of 9/30/2022 and 9/30/2021.

² Contributions developed as of 10/1/2022 displayed above have been adjusted to account for assumed salary increase and interest components.

H. Schedule Illustrating the Amortization of the Total Unfunded Actuarial Accrued Liability as of:

	Projected Unfunded
<u>Year</u>	Actuarial Accrued Liability
2022	321,106
2023	312,854
2024	304,004
2029	249,147
2033	189,204
2038	76,803
2042	0

I. (i) 5 Year Comparison of Actual and Assumed Salary Increases

		<u>Actual</u>	Assumed
Year Ended	9/30/2022	2.51%	6.16%
Year Ended	9/30/2021	13.22%	6.25%
Year Ended	9/30/2020	9.57%	6.60%
Year Ended	9/30/2019	7.77%	6.62%
Year Ended	9/30/2018	11.24%	6.48%

(ii) 5 Year Comparison of Investment Return on Market Value and Actuarial Value

Assumed	Actuarial Value	Market Value		
7.25%	5.52%	-14.88%	9/30/2022	Year Ended
7.50%	10.20%	21.45%	9/30/2021	Year Ended
7.50%	7.30%	9.82%	9/30/2020	Year Ended
7.75%	7.23%	5.15%	9/30/2019	Year Ended
7.75%	6.53%	7.97%	9/30/2018	Year Ended

(iii) Average Annual Payroll Growth

(a) Payroll as of:	10/1/2022 10/1/2012	\$1,220,835 846,355
(b) Total Increase		44.25%
(c) Number of Years		10.00
(d) Average Annual Rate		3.73%

STATEMENT BY ENROLLED ACTUARY

This actuarial valuation was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Joseph L. Griffin, ASA, EA, MAAA

Enrolled Actuary #20-6938

Please let us know when the report is approved by the Board and unless otherwise directed we will provide copies of the report to the following offices to comply with Chapter 112 Florida Statutes:

Mr. Keith Brinkman
Bureau of Local
Retirement Systems
Post Office Box 9000
Tallahassee, FL 32315-9000

Mr. Steve Bardin
Municipal Police and Fire
Pension Trust Funds
Division of Retirement
Post Office Box 3010
Tallahassee, FL 32315-3010

RECONCILIATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES

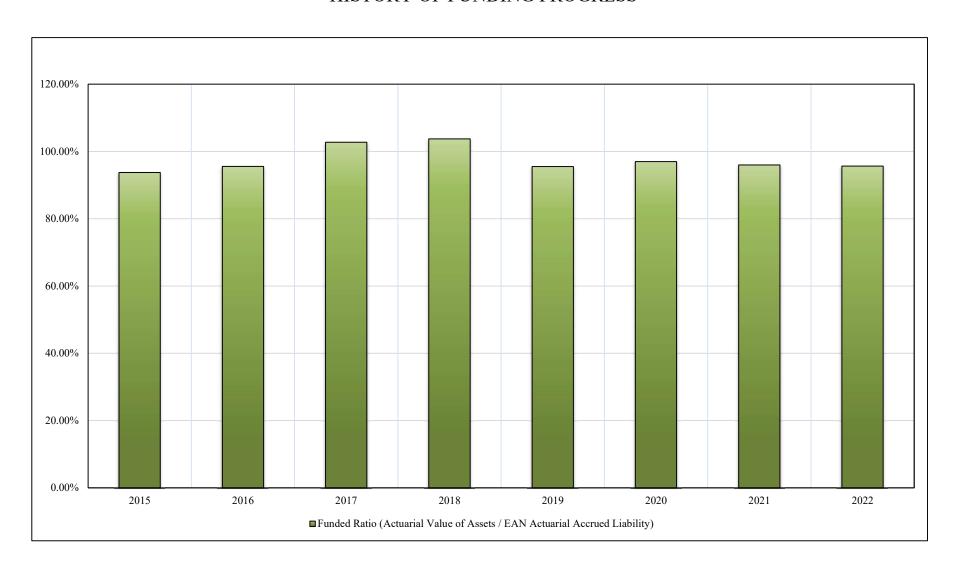
(1)	Unfunded Actuarial Accrued Liability as of October 1, 2021	\$274,156
(2)	Sponsor Normal Cost developed as of October 1, 2021	222,946
(3)	Expected administrative expenses for the year ended September 30, 2022	24,304
(4)	Expected interest on (1), (2) and (3)	36,921
(5)	Sponsor contributions to the System during the year ended September 30, 2022	299,072
(6)	Expected interest on (5)	6,367
(7)	Expected Unfunded Actuarial Accrued Liability as of September 30, 2022 (1)+(2)+(3)+(4)-(5)-(6)	252,888
(8)	Change to UAAL due to Method Change	0
(9)	Change to UAAL due to Actuarial (Gain)/Loss	68,218
(10)	Unfunded Actuarial Accrued Liability as of October 1, 2022	321,106

Type of	Date	Years	10/1/2022	Amortization
<u>Base</u>	Established	Remaining	<u>Amount</u>	Amount
Initial Base	10/1/2017	15	(83,563)	(8,690)
Actuarial Loss	10/1/2018	16	55,702	5,589
Method Change	10/1/2018	16	(90,688)	(9,100)
Benefits Change	10/1/2018	16	(180)	(18)
Actuarial Loss	10/1/2019	17	169,165	16,436
Assump Change	10/1/2019	17	115,125	11,186
Actuarial Gain	10/1/2020	18	(25,910)	(2,445)
Assump Change	10/1/2020	18	(34,832)	(3,287)
Actuarial Gain	10/1/2021	19	(53,222)	(4,892)
Assump Change	10/1/2021	19	201,291	18,501
Actuarial Loss	10/1/2022	20	68,218	6,121
			321,106	29,401

DETAILED ACTUARIAL (GAIN)/LOSS ANALYSIS

(1) Unfunded Actuarial Accrued Liability (UAAL) as of October 1, 2021	\$274,156
(2) Expected UAAL as of October 1, 2022	252,888
(3) Summary of Actuarial (Gain)/Loss, by component:	
Investment Return (Actuarial Asset Basis)	115,115
Salary Increases	(115,053)
Active Decrements	71,725
Inactive Mortality	14,074
Other	(17,643)
Increase in UAAL due to (Gain)/Loss	68,218
Method Changes	0
(4) Actual UAAL as of October 1, 2022	\$321,106

HISTORY OF FUNDING PROGRESS



ACTUARIAL ASSUMPTIONS AND METHODS

Mortality Rate

Healthy Active Lives:

Female: PubS.H-2010 for Employees, set forward one year.

Male: PubS.H-2010 (Below Median) for Employees, set forward one year.

Healthy Retiree Lives:

Female: PubS.H-2010 for Healthy Retirees, set forward one year.

Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

Beneficiary Lives:

Female: PubG.H-2010 (Below Median) for Healthy Retirees.

Male: PubG.H-2010 (Below Median) 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. We feel this assumption sufficiently accommodates future mortality improvements.

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.

7.25% per year compounded annually, net of investment related expenses. This is supported by the target asset allocation of the trust and the expected long-term return by asset class.

8% for the first 4 years of Credited Service and 5.0% thereafter. This assumption was adopted based on the June 6, 2017 actuarial experience study.

Interest Rate

Salary Increases

Payroll Growth

0.00% for purposes of amortizing the Unfunded Actuarial Accrued Liability. This assumption cannot exceed the ten-year average payroll growth, in compliance with Part VII of Chapter 112, Florida Statutes.

Administrative Expenses

\$23,159 annually, based on the average of actual expenses incurred in the prior two fiscal years.

Amortization Method

New UAAL amortization bases are amortized over 20 years.

Bases established prior to the valuation date are adjusted proportionally to match the Expected Unfunded Actuarial Accrued Liability as of the valuation date, in order to align prior year bases with the portion of the current year UAAL associated with prior year sources.

Retirement Age

Earlier of Age 55 and 10 years of service or Age 52 and 25 years of service. Also, any Member who has reached Normal Retirement is assumed to continue employment for one additional year. We feel this assumption is reasonable based on the plan provisions.

Early Retirement

Commencing with the earliest Early Retirement Age (50), Members are assumed to retire with an immediate subsidized benefit at the rate of 5% per year. We feel this assumption is reasonable based on the plan provisions.

Disability Rate

See table later in this section. It is assumed that 90% of disablements and active Member deaths are service related. This assumption was developed from those used by other plans containing Florida municipal Firefighters.

Termination Rate

See table later in this section. This assumption was developed from those used by other plans containing Florida municipal Firefighters.

Funding Method

Entry Age Normal Actuarial Cost Method. The following loads are applied for determining the minimum required contribution:

Interest - A half year, based on current 7.25% assumption.

Salary - A full year, based on current 5.27% assumption.

Asset Valuation Method

All assets are valued at market value with an adjustment to uniformly spread actuarial investment gains and losses (as measured by actual market value investment return against expected market value investment return) over a five-year period.

% Terminating
During the Year

% Becoming Disabled
During the Year

During	the rear	_	During	ine i cai
Age	Rate		Age	Rate
20	6.0%	_	20	0.03%
25	5.7%		25	0.03%
30	5.0%		30	0.04%
35	3.8%		35	0.05%
40	2.6%		40	0.07%
45	1.6%		45	0.10%
50	0.8%		50	0.18%
55	0.3%		55	0.36%
60	0.2%		60	0.90%
65	0.2%		65+	2.22%
70	0.2%			

GLOSSARY

Actuarial Value of Assets is the asset value used in the valuation to determine contribution requirements. It represents the plan's Market Value of Assets (see below), with adjustments according to the plan's Actuarial Asset Method. These adjustments produce a "smoothed" value that is likely to be less volatile from year to year than the Market Value of Assets.

<u>Entry Age Normal Cost Method</u> - Under this method, the normal cost is the sum of the individual normal costs for all active participants. For an active participant, the normal cost is the participant's normal cost accrual rate, multiplied by the participant's current compensation.

- (a) The normal cost accrual rate equals:
 - (i) the present value of future benefits for the participant, determined as of the participant's entry age, divided by
 - (ii) the present value of the compensation expected to be paid to the participant for each year of the participant's anticipated future service, determined as of the participant's entry age.
- (b) In calculating the present value of future compensation, the salary scale is applied both retrospectively and prospectively to estimate compensation in years prior to and subsequent to the valuation year based on the compensation used for the valuation.
- (c) The accrued liability is the sum of the individual accrued liabilities for all participants and beneficiaries. A participant's accrued liability equals the present value, at the participant's attained age, of future benefits less the present value at the participant's attained age of the individual normal costs payable in the future. A beneficiary's accrued liability equals the present value, at the beneficiary's attained age, of future benefits. The unfunded accrued liability equals the total accrued liability less the actuarial value of assets.
- (d) Under this method, the entry age used for each active participant is the participant's age at the time he or she would have commenced participation if the plan had always been in existence under current terms, or the age as of which he or she first earns service credits for purposes of benefit accrual under the current terms of the plan.

<u>Market Value of Assets</u> is the fair market value of plan assets as of the valuation date. This amount may be adjusted to produce an Actuarial Value of Assets for plan funding purposes.

Normal (Current Year's) Cost is the current year's cost for benefits yet to be funded. Under the Entry Age Normal cost method, it is determined for each participant as the present value of future benefits, determined as of the Member's entry age, amortized as a level percentage of compensation over the anticipated number of years of participation, determined as of the entry age.

<u>Present Value of Benefits</u> is the single sum value on the valuation date of all future benefits to be paid to current plan participants.

<u>Total Annual Payroll</u> is the projected annual rate of pay for the fiscal year beginning on the valuation date of all covered Members.

<u>Total Required Contribution</u> is equal to the Normal Cost plus an amount sufficient to amortize the Unfunded Accrued Liability over no more than 30 years. The required amount is adjusted for interest according to the timing of contributions during the year.

<u>Unfunded Actuarial Accrued Liability (UAAL)</u> is the difference between the actuarial accrued liability (described above) and the Actuarial Value of Assets. Under the Entry Age Normal Actuarial Cost Method, an actuarial gain or loss, based on actual versus expected UAAL, is determined in conjunction with each valuation of the plan.

DISCUSSION OF RISK

ASOP No. 51, Assessment and Disclosure of Risk Associated with Measuring Pension Obligations and Determining Pension Plan Contributions, states that the actuary should identify risks that, in the actuary's professional judgment, may reasonably be anticipated to significantly affect the plan's future financial condition.

Throughout this report, actuarial results are determined using various actuarial assumptions. These results are based on the premise that all future plan experience will align with the plan's actuarial assumptions; however, there is no guarantee that actual plan experience will align with the plan's assumptions. It is possible that actual plan experience will differ from anticipated experience in an unfavorable manner that will negatively impact the plan's funded position.

Below are examples of ways in which plan experience can deviate from assumptions and the potential impact of that deviation. Typically, this results in an actuarial gain or loss representing the current-year financial impact on the plan's unfunded liability of the experience differing from assumptions; this gain or loss is amortized over a period of time determined by the plan's amortization method. When assumptions are selected that adequately reflect plan experience, gains and losses typically offset one another in the long term, resulting in a relatively low impact on the plan's contribution requirements associated with plan experience. When assumptions are too optimistic, losses can accumulate over time and the plan's amortization payment could potentially grow to an unmanageable level.

- <u>Investment Return</u>: When the rate of return on the Actuarial Value of Assets falls short of the assumption, this produces a loss representing assumed investment earnings that were not realized. Further, it is unlikely that the plan will experience a scenario that matches the assumed return in each year as capital markets can be volatile from year to year. Therefore, contribution amounts can vary in the future.
- <u>Salary Increases</u>: When a plan participant experiences a salary increase that was greater than assumed, this produces a loss representing the cost of an increase in anticipated plan benefits for the participant as compared to the previous year. The total gain or loss associated with salary increases for the plan is the sum of salary gains and losses for all active participants.
- <u>Demographic Assumptions:</u> Actuarial results take into account various potential events that could happen to a plan participant, such as retirement, termination, disability, and death. Each of these potential events is assigned a liability based on the likelihood of the event and the financial consequence of the event for the plan. Accordingly, actuarial liabilities reflect a blend of financial consequences associated with various possible outcomes (such as retirement at one of various possible ages). Once the outcome is known (e.g. the participant retires) the liability is adjusted to reflect the known outcome. This adjustment produces a gain or loss depending on whether the outcome was more or less favorable than other outcomes that could have occurred.

Impact of Plan Maturity on Risk

For newer pension plans, most of the participants and associated liabilities are related to active members who have not yet reached retirement age. As pension plans continue in operation and active members reach retirement ages, liabilities begin to shift from being primarily related to active members to being shared amongst active and retired members. Plan maturity is a measure of the extent to which this shift has occurred. It is important to understand that plan maturity can have an impact on risk tolerance and the overall risk characteristics of the plan. For example, closed plans with a large amount of retired liability do not have as long of a time horizon to recover from losses (such as losses on investments due to lower than expected investment returns) as plans where the majority of the liability is attributable to active members. For this reason, less tolerance for investment risk may be warranted for highly mature closed plans with a substantial inactive liability. Similarly, mature closed plans paying substantial retirement benefits resulting in a small positive or net negative cash flow can be more sensitive to near term investment volatility, particularly if the size of the fund is shrinking, which can result in less assets being available for investment in the market.

To assist with determining the maturity of the plan, we have provided some relevant metrics in the table following titled "Plan Maturity Measures and Other Risk Metrics". Highlights of this information are discussed below:

- The Support Ratio, determined as the ratio of active to inactive members, has decreased from 500.0% on October 1, 2015 to 177.8% on October 1, 2022, indicating that the plan has been maturing during the period.
- The Accrued Liability Ratio, determined as the ratio of the Inactive Accrued Liability, which is the liability associated with members who are no longer employed but are due a benefit from the plan, to the Total Accrued Liability, is 36.4%. With a plan of this maturity, losses due to lower than expected investment returns or demographic factors may result in lower volatility in contribution requirements when compared to a more mature plan. Please note Chapter 112, Florida Statutes, requires that the plan sponsor contributes the minimum required contribution; thus, there is minimal solvency risk to the plan.
- The Funded Ratio, determined as the ratio of the Actuarial Value of Assets to the Total Accrued Liability, has increased from 93.8% on October 1, 2015 to 95.7% on October 1, 2022.
- The Net Cash Flow Ratio, determined as the ratio of the Net Cash Flow (contributions minus benefit payments and administrative expenses) to the Market Value of Assets, decreased from 5.0% on October 1, 2015 to 2.4% on October 1, 2022. The current Net Cash Flow Ratio of 2.4% indicates that contributions are generally in excess of the plan's benefit payments and administrative expenses.

It is important to note that the actuary has identified the risks in this section as the most significant risks based on the characteristics of the plan and the nature of the project, however, it is not an exhaustive list of potential risks that could be considered. Additional advanced modeling, as well as the identification of additional risks, can be provided at the request of the audience addressed on page 2 of this report.

PLAN MATURITY MEASURES AND OTHER RISK METRICS

	10/1/2022	10/1/2021	10/1/2017	10/1/2015
Support Ratio				
Total Actives Total Inactives ¹	16 9	15 9	17 7	15 3
Actives / Inactives ¹	177.8%	166.7%	242.9%	500.0%
Asset Volatility Ratio				
Market Value of Assets (MVA) Total Annual Payroll	6,288,965 1,220,835	7,211,008 1,149,295	4,399,004 910,803	3,389,301 874,609
MVA / Total Annual Payroll	515.1%	627.4%	483.0%	387.5%
Accrued Liability (AL) Ratio				
Inactive Accrued Liability	2,686,633	2,673,512	1,807,409	733,616
Total Accrued Liability (EAN) Inactive AL / Total AL	7,390,026 36.4%	6,827,216 39.2%	4,215,322 42.9%	3,771,686 19.5%
Funded Ratio				
Actuarial Value of Assets (AVA) Total Accrued Liability (EAN) AVA / Total Accrued Liability (EAN)	7,068,920 7,390,026 95.7%	6,553,060 6,827,216 96.0%	4,332,200 4,215,322 102.8%	3,536,301 3,771,686 93.8%
Net Cash Flow Ratio				
Net Cash Flow ² Market Value of Assets (MVA) Ratio	148,129 6,288,965 2.4%	168,978 7,211,008 2.3%	109,031 4,399,004 2.5%	169,592 3,389,301 5.0%

¹ Excludes terminated participants awaiting a refund of member contributions.

² Determined as total contributions minus benefit payments and administrative expenses.

PARTIAL HISTORY OF PREMIUM TAX REFUNDS

Received During <u>Fiscal Year</u>	<u>Amount</u>	Increase from <u>Previous Year</u>
1998	12,899.20	
1999	16,762.16	29.9%
2000	19,060.35	13.7%
2001	22,546.42	18.3%
2002	24,345.00	8.0%
2003	30,197.67	24.0%
2004	32,799.43	8.6%
2005	38,385.97	17.0%
2006	44,709.46	16.5%
2007	65,574.57	46.7%
2008	104,942.35	60.0%
2009	107,950.54	2.9%
2010	91,832.55	-14.9%
2011	117,749.32	28.2%
2012	96,458.03	-18.1%
2013	108,137.86	12.1%
2014	122,408.31	13.2%
2015	103,271.36	-15.6%
2016	92,377.22	-10.5%
2017	70,246.48	-24.0%
2018	69,082.65	-1.7%
2019	67,868.16	-1.8%
2020	74,986.86	10.5%
2021	76,434.90	1.9%
2022	123,429.35	61.5%

EXCESS STATE MONIES RESERVE

		Regular Distribution			Special Distribution	
	Actual	Applicable	Excess State	Actual	Applicable	Excess State
	State Contribution	"Frozen" Amount	Monies Reserve	State Contribution	"Frozen" Amount	Monies Reserve
1999	\$16,762.16	\$12,899.20	\$3,862.96	\$0.00	\$0.00	\$0.00
2000	19,060.35	12,899.20	6,161.15	0.00	0.00	0.00
2001	22,546.42	12,899.20	9,647.22	0.00	0.00	0.00
2002	24,345.00	12,899.20	11,445.80	0.00	0.00	0.00
2003	27,289.56	12,899.20	14,390.36	2,908.11	0.00	2,908.11
2004	27,556.80	12,899.20	14,657.60	5,242.63	0.00	5,242.63
2005	33,356.11	12,899.20	20,456.91	5,029.86	0.00	5,029.86
2006	36,014.94	12,899.20	23,115.74	8,694.52	0.00	8,694.52
2007	48,324.73	46,582.20	1,742.53	17,249.84	0.00	17,249.84
2008	63,785.35	46,582.20	17,203.15	41,157.00	0.00	41,157.00
2009	57,884.45	46,582.20	11,302.25	50,066.09	0.00	50,066.09
2010	61,001.04	61,001.04	0.00	30,831.51	25,276.16	5,555.35
2011	61,546.42	61,546.42	0.00	56,202.90	24,730.78	31,472.12
2012	62,513.71	62,513.71	0.00	33,944.32	23,763.49	10,180.83
2013	70,175.15	70,175.15	0.00	37,962.71	16,102.05	21,860.66
2014	78,818.70	78,818.70	0.00	43,589.61	7,458.50	36,131.11
2015	71,929.79	71,929.79	0.00	31,341.57	14,347.41	16,994.16
2016	73,789.47	71,929.79	1,859.68	18,587.75	14,347.41	4,240.34
2017	66,621.75	71,929.79	0.00	3,624.73	14,347.41	0.00
2018	66,343.88	66,343.88	0.00	2,738.77	2,738.77	0.00
2019	67,868.16	67,868.16	0.00	0.00	0.00	0.00
2020	73,934.58	73,934.58	0.00	1,052.28	1,052.28	0.00
2021	76,434.90	76,434.90	0.00	0.00	0.00	0.00
2022	122,770.03	122,770.03	0.00	659.32	659.32	0.00
			135,845.35			256,782.62
	Accumulated Regular	Excess	135,845.35			
	Accumulated Special	Excess	256,782.62			
	Total Excess State Mo	onies	392,627.97			
	Less Excess Used in F Res. No. 07-01 (3.0%		(93,822.60)			
	Less Excess Used in F Res. No. 10-01 (3.5%		(170,511.12)			
	Equals Current State I	Monies Reserve	\$128,294.25			

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2022

ASSETS	COST VALUE	MARKET VALUE
Cash and Cash Equivalents: Short Term Investments	36,000.70	36,000.70
Total Cash and Equivalents	36,000.70	36,000.70
Receivables:		
Member Contributions in Transit	4,647.04	4,647.04
District Contributions in Transit	60,736.53	60,736.53
State Contributions	123,429.35	123,429.35
Total Receivable	188,812.92	188,812.92
Investments:		
Mutual Funds:		
Fixed Income	1,833,995.80	1,539,034.95
Equity	4,071,158.49	3,711,685.30
Pooled/Common/Commingled Funds:		
Real Estate	678,357.96	883,972.12
Total Investments	6,583,512.25	6,134,692.37
Total Assets	6,808,325.87	6,359,505.99
<u>LIABILITIES</u>		
Payables:		
Investment Expenses	4,446.68	4,446.68
Administrative Expenses	445.85	445.85
Prepaid District Contribution	65,648.82	65,648.82
Total Liabilities	70,541.35	70,541.35
NET POSITION RESTRICTED FOR PENSIONS	6,737,784.52	6,288,964.64

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2022 Market Value Basis

ADDITIONS

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Member	60,296.78
District	175,642.68
State	123,429.35

Total Contributions 359,368.81

Investment Income:

Net Realized Gain (Loss) 35,814.56 Unrealized Gain (Loss) (1,353,651.47)

Net Increase in Fair Value of Investments (1,317,836.91)
Interest & Dividends 275,021.75
Less Investment Expense¹ (27,356.20)

Net Investment Income (1,070,171.36)

Total Additions (710,802.55)

DEDUCTIONS

Distributions to Members:

Benefit Payments 187,162.44
Refunds of Member Contributions 0.00

Total Distributions 187,162.44

Administrative Expense 24,078.07

Total Deductions 211,240.51

Net Increase in Net Position (922,043.06)

NET POSITION RESTRICTED FOR PENSIONS

Beginning of the Year 7,211,007.70

End of the Year 6,288,964.64

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

ACTUARIAL ASSET VALUATION September 30, 2022

Actuarial Assets for funding purposes are developed by recognizing the total actuarial investment gain or loss for each Plan Year over a five year period. In the first year, 20% of the gain or loss is recognized. In the second year 40%, in the third year 60%, in the fourth year 80%, and in the fifth year 100% of the gain or loss is recognized. The actuarial investment gain or loss is defined as the actual return on investments minus the actuarial assumed investment return. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

		Gains/Losses Not	Yet Recognized	<u>1</u>		
Plan Year		Amo	ounts Not Yet R	ecognized by Va	aluation Year	
Ending	Gain/(Loss)	2022	2023	2024	2025	2026
09/30/2019	(129,695)	(25,939)	0	0	0	0
09/30/2020	116,223	46,488	23,243	0	0	0
09/30/2021	800,116	480,070	320,047	160,024	0	0
09/30/2022	(1,600,718)	(1,280,574)	(960,430)	(640,286)	(320,142)	0
Total		(779,955)	(617,140)	(480,262)	(320,142)	0

Development of Investment Gain/Loss

Market Value of Assets, 09/30/2021	7,211,008
Contributions Less Benefit Payments & Admin Expenses	213,777
Expected Investment Earnings*	530,547
Actual Net Investment Earnings	(1,070,171)
2022 Actuarial Investment Gain/(Loss)	(1,600,718)

^{*}Expected Investment Earnings = 0.0725 * (7,211,008 + 0.5 * 213,777)

10/01/2022 Limited Actuarial Assets (not including Prepaid):

Actuarial Gain/(Loss) due to Investment Return (Actuarial Asset Basis

Development of Actuarial Value of Assets

<u>Development of Actuarial Value or</u>	f Assets
(1) Market Value of Assets, 09/30/2022	6,288,965
(2) Gains/(Losses) Not Yet Recognized	(779,955)
(3) Actuarial Value of Assets, 09/30/2022, (1) - (2)	7,068,920
(A) 09/30/2021 Actuarial Assets:	6,553,060
(I) Net Investment Income:	
1. Interest and Dividends	275,022
2. Realized Gain (Loss)	35,815
3. Unrealized Gain (Loss)	(1,353,651)
4. Change in Actuarial Value	1,437,903
5. Investment Expenses	(27,356)
Total	367,732
(B) 09/30/2022 Actuarial Assets, including Prepaid Contributions:	7,134,568
Actuarial Assets Rate of Return = 2I/(A+B-I):	5.52%
Market Value of Assets Rate of Return:	-14.88%

7,068,920

(115,115)

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS SEPTEMBER 30, 2022 Actuarial Asset Basis

REVENUES		
Contributions:		
Member	60,296.78	
District	175,642.68	
State	123,429.35	
Total Contributions		359,368.81
Earnings from Investments:		
Interest & Dividends	275,021.75	
Net Realized Gain (Loss)	35,814.56	
Unrealized Gain (Loss)	(1,353,651.47)	
Change in Actuarial Value	1,437,903.00	
Total Earnings and Investment Gains		395,087.84
EXPENDITUR	ES	
Distributions to Members:		
Benefit Payments	187,162.44	
Refunds of Member Contributions	0.00	
		105 1 20 11
Total Distributions		187,162.44
Expenses:		
Investment related ¹	27,356.20	
Administrative	24,078.07	
Administrative	24,070.07	
Total Expenses		51,434.27
Change in Net Assets for the Year		515,859.94
-		

Net Assets Beginning of the Year

Net Assets End of the Year²

6,553,059.70

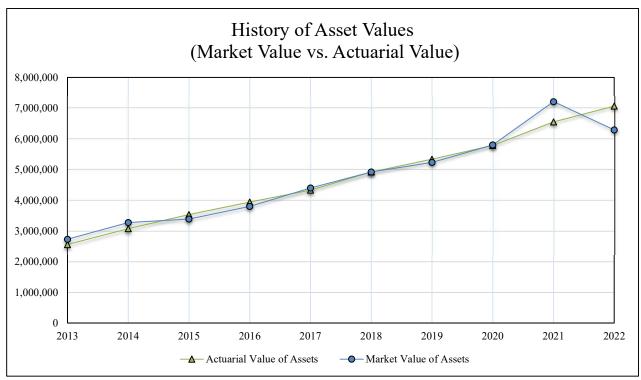
7,068,919.64

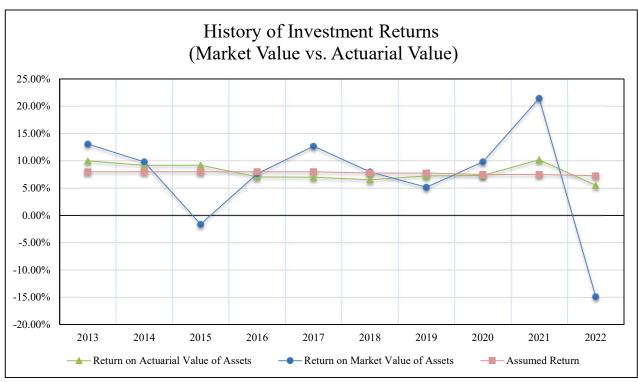
¹Investment related expenses include investment advisory, custodial and performance monitoring fees. ²Net Assets may be limited for actuarial consideration.

RECONCILIATION OF DISTRICT SHORTFALL/(PREPAID) CONTRIBUTION FOR THE FISCAL YEAR ENDED (FYE) SEPTEMBER 30, 2022

(1)	Required District and State Contributions	\$299,072.03
(2)	Less Allowable State Contribution	(123,429.35)
(3)	Required District Contribution for Fiscal 2022	175,642.68
(4)	Plus 2021 Shortfall Contribution	14,592.02
(5)	Less Actual District Contributions	(255,883.52)
(6)	Equals District's Shortfall/(Prepaid) Contribution as of September 30, 2022	(\$65,648.82)

HISTORY OF ASSET VALUES AND INVESTMENT RETURNS





STATISTICAL DATA

	10/1/2022	10/1/2021	10/1/2020	10/1/2019
Actives				
Number	16	15	16	16
Average Current Age	38.2	38.2	36.9	36.2
Average Age at Employment	27.5	27.8	28.0	27.7
Average Past Service	10.7	10.4	8.9	8.5
Average Annual Salary	\$76,302	\$76,620	\$66,148	\$60,824
Service Retirees				
Number	2	2	3	3
Average Current Age	64.0	63.0	61.3	60.3
Average Annual Benefit	\$45,641	\$45,641	\$49,546	\$49,546
<u>Beneficiaries</u>				
Number	1	1	0	0
Average Current Age	59.8	58.8	N/A	N/A
Average Annual Benefit	\$57,356	\$57,356	N/A	N/A
Disability Retirees				
Number	3	3	3	3
Average Current Age	55.5	54.5	53.5	52.5
Average Annual Benefit	\$12,841	\$12,841	\$12,841	\$12,841
Terminated Vested				
Number	7	7	6	6
Average Current Age 1	45.3	44.3	43.3	45.7
Average Annual Benefit 1	\$21,734	\$21,734	\$21,734	\$22,372

¹ The Average Current Age and Average Annual Benefit exclude participants awaiting a refund of contributions.

AGE AND SERVICE DISTRIBUTION

PAST SERVICE

AGE	0	1	2	3	4	5-9	10-1	4 15-19	20-24	25-29	30+	Total
15 - 19												0
20 - 24	1											1
25 - 29												0
30 - 34					1	5						6
35 - 39						1		2				3
40 - 44						1		1				2
45 - 49						1				1		2
50 - 54								1				1
55 - 59										1		1
60 - 64												0
65+												0
Total	1	C	0	0	1	8	0	4	0	2	0	16

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/2021			
b. Terminations			
i. Vested (partial or full) with deferred annuity	0		
ii. Vested in refund of member contributions only	0		
iii. Refund of member contributions or full lump sum distributio	0		
c. Deaths			
i. Beneficiary receiving benefits	0		
ii. No future benefits payable	0		
d. Disabled	0		
e. Retired	0		
f. Continuing participants	15		
g. New entrants / Rehires	1_		
h. Total active life participants in valuation	16		

2. Non-Active lives (including beneficiaries receiving benefits)

	Service					
	Retirees,	.	.	** · ·	T T . 1	
	Vested	_	Receiving	Vested	Vested	
	Receiving	Death	•	(Deferred	(Due	
	<u>Benefits</u>	<u>Benefits</u>	<u>Benefits</u>	Annuity)	Refund)	<u>Total</u>
a. Number prior valuation	2	1	3	3	4	13
Retired						
Vested (Deferred Annuity)						
Vested (Due Refund)						
Hired/Terminated in Same Year						
Death, With Survivor						
Death, No Survivor						
Disabled						
Refund of Contributions						
Rehires						
Expired Annuities						
Data Corrections						
b. Number current valuation	2	1	3	3	4	13

SUMMARY OF CURRENT PLAN

(Through Resolution No. 13-03)

Eligibility Full-time employees who are classified as full-time

Firefighters shall participate in the System as a condition

of employment.

<u>Credited Service</u> Total years and fractional parts of years of employment

with the District after June 1, 1997, as a Firefighter. Members may purchase service prior to June 1, 1997, by depositing amounts actuarially determined to fully fund

the credits.

<u>Salary</u> Fixed compensation, including tax-deferred and tax-

exempt items of income.

<u>Average Final Compensation</u> Average Salary for the highest 3 years during the 5 years

immediately preceding retirement or termination.

Member Contributions 5.0% of Salary.

<u>District / State Contributions</u>

Remaining amounts required in order to pay current

costs and amortize unfunded past service cost, if any, as provided in Part VII of Chapter 112, Florida Statutes.

Normal Retirement

Date Earlier of: 1) age 55 and 10 years of Credited Service,

or 2) age 52 and 25 years of Credited Service.

Benefit 3.5% of Average Final Compensation times Credited

Service

Form of Benefit Ten Year Certain and Life Annuity (options available).

Early Retirement

Eligibility Age 50 and 10 Years of Credited Service.

Benefit Accrued benefit, reduced 3% per year prior to Normal

Retirement Date.

Vesting

Schedule 100% after 10 years of Credited Service.

Benefit Amount Member will receive the vested portion of his (her)

accrued benefit payable at the otherwise Normal

Retirement Date.

Disability

Eligibility

Service Incurred Covered from Date of Employment.

Non-Service Incurred 10 years of Credited Service.

Benefit Benefit accrued to date of disability but not less than

42% of Average Final Compensation (Service Incurred), or 25% of Average Final Compensation (Non-Service

Incurred).

Duration Payable for life with 10 year guarantee or until recovery

(as determined by the Board). Options available.

Death Benefits

Pre-Retirement

Vested Monthly accrued benefit payable to designated

beneficiary for 10 years.

Non-Vested Refund of accumulated contributions without interest.

Post-Retirement Benefits payable to beneficiary in accordance with

option selected at retirement.

<u>Board of Trustees</u> a. Two District appointees,

b. Two Members of the Department elected by the

membership, and

c. Fifth Member elected by other 4 and appointed by

District.

Share Plan exists, but is not currently funded.

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2022

<u>ASSETS</u>	MARKET VALUE
Cash and Cash Equivalents: Short Term Investments	36,001
Total Cash and Equivalents	36,001
Receivables:	
Member Contributions in Transit	4,647
District Contributions in Transit	60,737
State Contributions	123,429
Total Receivable	188,813
Investments:	
Mutual Funds:	
Fixed Income	1,539,035
Equity	3,711,685
Real Estate	883,972
Total Investments	6,134,692
Total Assets	6,359,506
LIABILITIES	
Payables:	
Investment Expenses	4,447
Administrative Expenses	446
Total Liabilities	4,893
NET POSITION RESTRICTED FOR PENSIONS	6,354,613

ADDITIONS

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2022

Market Value Basis

Contributions:		
Member	60,297	
District	241,292	
State	123,429	
Total Contributions		425,018
Investment Income:		
Net Increase in Fair Value of Investments	(1,317,838)	
Interest & Dividends	275,022	
Less Investment Expense ¹	(27,356)	
Net Investment Income		(1,070,172)
Total Additions		(645,154)
DEDUCTIONS		
Distributions to Members:		
Benefit Payments	187,163	
Refunds of Member Contributions	0	

Total Distributions 187,163

Administrative Expense 24,078

Total Deductions 211,241

Net Increase in Net Position (856,395)

NET POSITION RESTRICTED FOR PENSIONS

Beginning of the Year 7,211,008

End of the Year 6,354,613

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

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2022)

Plan Administration

The Plan is a single-employer defined benefit pension plan administered by the Plan's Board of Trustees comprised of:

- a. Two District appointees,
- b. Two Members of the Department elected by the membership, and
- c. Fifth Member elected by other four and appointed by District.

Plan Membership as of October 1, 2021:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	6
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	7
Active Plan Members	15
	28

Benefits Provided

The Plan provides retirement, termination, disability and death benefits.

A summary of the benefit provisions can be found in the October 1, 2021 Actuarial Valuation Report for the North Bay Fire District Firefighters' Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

Contributions

Member Contributions: 5.0% of Salary.

District/State Contributions: Remaining amounts required in order to pay current costs and amortize unfunded past service cost, if any, as provided in Part VII of Chapter 112, Florida Statutes.

Investment Policy:

The following was the Board's adopted asset allocation policy as of September 30, 2022:

Asset Class	Target Allocation
Domestic Equity	55.00%
International Equity	10.00%
Broad Market Fixed Income	20.00%
Fixed Income (Non-Core)	2.50%
Global Fixed Income	2.50%
Real Estate	10.00%
Total	100.00%
•	

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.

Rate of Return:

For the year ended September 30, 2022, the annual money-weighted rate of return on Pension Plan investments, net of Pension Plan investment expense, was -14.88 percent.

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

NET PENSION LIABILITY OF THE SPONSOR

The components of the Net Pension Liability of the Sponsor on September 30, 2022 were as follows:

Total Pension Liability \$ 7,378,251
Plan Fiduciary Net Position \$ (6,354,613)
Sponsor's Net Pension Liability \$ 1,023,638
Plan Fiduciary Net Position as a percentage of Total Pension Liability 86.13%

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2021 updated to September 30, 2022 using the following actuarial assumptions:

Inflation2.50%Salary IncreasesService basedDiscount Rate7.25%Investment Rate of Return7.25%

Mortality Rate Healthy Active Lives:

Female: PubS.H-2010 for Employees, set forward one year.

Male: PubS.H-2010 (Below Median) for Employees, set forward one year.

Mortality Rate Healthy Retiree Lives:

Female: PubS.H-2010 for Healthy Retirees, set forward one year.

Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

Mortality Rate Beneficiary Lives:

Female: PubG.H-2010 (Below Median) for Healthy Retirees.

Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year.

Mortality Rate 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. We feel this assumption sufficiently accommodates future mortality improvements.

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.

The most recent actuarial experience study used to review the other significant assumptions was dated June 6, 2017.

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.

For 2022 the inflation rate assumption of the investment advisor was 2.50%.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the 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 as of September 30, 2022 are summarized in the following table:

	Long Term Expected Real Rate of
Asset Class	Return ¹
Domestic Equity	7.50%
International Equity	8.50%
Broad Market Fixed Income	2.50%
Fixed Income (Non-Core)	2.50%
Global Fixed Income	3.50%
Real Estate	4.50%

¹ Source: AndCo Consulting

Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.25 percent.

The projection of cash flows used to determine the Discount Rate assumed that 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 was applied to all periods of projected benefit payments to determine the Total Pension Liability.

	Current		
	1% Decrease	Discount Rate	1% Increase
	6.25%	7.25%	8.25%
Sponsor's Net Pension Liability	\$ 2.076.573	\$ 1.023.638	\$ 155.554

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 2 Fiscal Years

	(09/30/2022	0	9/30/2021
Total Pension Liability				
Service Cost		281,269		247,065
Interest		484,851		448,027
Changes of benefit terms		-		-
Differences between Expected and Actual Experience		171,094		(19,719)
Changes of assumptions		-		193,006
Benefit Payments, including Refunds of Employee Contributions		(187,163)		(190,196)
Net Change in Total Pension Liability		750,051		678,183
Total Pension Liability - Beginning		6,628,200		5,950,017
Total Pension Liability - Ending (a)	\$	7,378,251	\$	6,628,200
Plan Fiduciary Net Position				
Contributions - Employer		241,292		245,196
Contributions - State		123,429		76,435
Contributions - Employee		60,297		59,783
Net Investment Income		(1,070,172)		1,241,494
Benefit Payments, including Refunds of Employee Contributions		(187,163)		(190,196)
Administrative Expense		(24,078)		(22,240)
Net Change in Plan Fiduciary Net Position		(856,395)		1,410,472
Plan Fiduciary Net Position - Beginning		7,211,008		5,800,536
Plan Fiduciary Net Position - Ending (b)	\$	6,354,613	\$	7,211,008
Net Pension Liability - Ending (a) - (b)	\$	1,023,638	\$	(582,808)
Plan Fiduciary Net Position as a percentage of the Total Pension Liability		86.13%		108.79%
Covered Payroll	\$	1,205,936	\$	1,195,656
Net Pension Liability as a percentage of Covered Payroll		84.88%		-48.74%

Notes to Schedule:

Changes of assumptions:

For measurement date 09/30/2021, amounts reported as changes of assumtpions resulted from lowering the investment rate of return from 7.50% to 7.25% per year compounded annually, net of investment related expenses.

SCHEDULE OF CONTRIBUTIONS

Last 2 Fiscal Years

				ributions in tion to the				Contributions
	A	ctuarially	A	ctuarially	Co	ntribution		as a percentage
	De	etermined	De	etermined	De	eficiency	Covered	of Covered
Fiscal Year Ended	Co	ntribution	Cor	ntributions	(Excess)	Payroll	Payroll
09/30/2022	\$	299,072	\$	364,721	\$	(65,649)	\$ 1,205,936	30.24%
09/30/2021	\$	321,631	\$	321,631	\$	-	\$ 1,195,656	26.90%

Notes to Schedule

Valuation Date: 10/01/2020

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates can be found in the October 1, 2020 Actuarial Valuation of the North Bay Fire District Firefighters' Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

SCHEDULE OF INVESTMENT RETURNS

Last 2 Fiscal Years

	Annual Money-Weighted Rate of Return
Fiscal Year Ended	Net of Investment Expense
09/30/2022	-14.88%
09/30/2021	21.45%

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2023)

Plan Description

The Plan is a single-employer defined benefit pension plan administered by the Plan's Board of Trustees comprised of:

- a. Two District appointees,
- b. Two Members of the Department elected by the membership, and
- c. Fifth Member elected by other four and appointed by District.

Full-time employees who are classified as full-time Firefighters shall participate in the System as a condition of employment.

Plan Membership as of October 1, 2021:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	6
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	7
Active Plan Members	15
	28

Benefits Provided

The Plan provides retirement, termination, disability and death benefits.

A summary of the benefit provisions can be found in the October 1, 2021 Actuarial Valuation Report for the North Bay Fire District Firefighters' Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

Contributions

Member Contributions: 5.0% of Salary.

District/State Contributions: Remaining amounts required in order to pay current costs and amortize unfunded past service cost, if any, as provided in Part VII of Chapter 112, Florida Statutes.

Net Pension Liability

The measurement date is September 30, 2022.

The measurement period for the pension expense was October 1, 2021 to September 30, 2022.

The reporting period is October 1, 2022 through September 30, 2023.

The Sponsor's Net Pension Liability was measured as of September 30, 2022.

The Total Pension Liability used to calculate the Net Pension Liability was determined as of that date.

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2021 updated to September 30, 2022 using the following actuarial assumptions:

Inflation	2.50%
Salary Increases	Service based
Discount Rate	7.25%
Investment Rate of Return	7.25%

Mortality Rate Healthy Active Lives:

Female: PubS.H-2010 for Employees, set forward one year.

Male: PubS.H-2010 (Below Median) for Employees, set forward one year.

Mortality Rate Healthy Retiree Lives:

Female: PubS.H-2010 for Healthy Retirees, set forward one year.

Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

Mortality Rate Beneficiary Lives:

Female: PubG.H-2010 (Below Median) for Healthy Retirees.

Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year.

Mortality Rate 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. We feel this assumption sufficiently accommodates future mortality improvements.

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.

The most recent actuarial experience study used to review the other significant assumptions was dated June 6, 2017.

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.

For 2022 the inflation rate assumption of the investment advisor was 2.50%.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the 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 as of September 30, 2022 are summarized in the following table:

		Long Term Expected
Asset Class	Target Allocation	Real Rate of Return ¹
Domestic Equity	55.0%	7.50%
International Equity	10.0%	8.50%
Broad Market Fixed Income	20.0%	2.50%
Fixed Income (Non-Core)	2.5%	2.50%
Global Fixed Income	2.5%	3.50%
Real Estate	10.0%	4.50%
Total	100%	

¹ Source: AndCo Consulting

Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.25 percent.

The projection of cash flows used to determine the Discount Rate assumed that 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 was applied to all periods of projected benefit payments to determine the Total Pension Liability.

CHANGES IN NET PENSION LIABILITY

		I	ncre	ease (Decrease	e)	
	To	otal Pension	Pla	an Fiduciary	N	let Pension
		Liability	N	let Position		Liability
		(a)		(b)		(a)-(b)
Reporting Period Ending September 30, 2022	\$	6,628,200	\$	7,211,008	\$	(582,808)
Changes for a Year:						
Service Cost		281,269		-		281,269
Interest		484,851		-		484,851
Differences between Expected and Actual Experience		171,094		-		171,094
Changes of assumptions		-		-		-
Changes of benefit terms		-		-		-
Contributions - Employer		-		241,292		(241,292)
Contributions - State		-		123,429		(123,429)
Contributions - Employee		-		60,297		(60,297)
Net Investment Income		-		(1,070,172)		1,070,172
Benefit Payments, including Refunds of Employee Contributions		(187,163)		(187,163)		-
Administrative Expense		-		(24,078)		24,078
Net Changes		750,051		(856,395)		1,606,446
Reporting Period Ending September 30, 2023	\$	7,378,251	\$	6,354,613	\$	1,023,638

Sensitivity of the Net Pension Liability to changes in the Discount Rate.

				Current		
	19	% Decrease	Di	scount Rate	1	% Increase
		6.25%		7.25%		8.25%
Sponsor's Net Pension Liability	\$	2,076,573	\$	1,023,638	\$	155,554

Pension Plan Fiduciary Net Position.

Detailed information about the pension Plan's Fiduciary Net Position is available in a separately issued Plan financial report.

FINAL PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS FISCAL YEAR SEPTEMBER 30, 2022

For the year ended September 30, 2022, the Sponsor has recognized a Pension Expense of \$18,432.

On September 30, 2022, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Ι	Deferred	I	Deferred
	Οι	ıtflows of	Iı	nflows of
	R	esources	R	desources
Differences between Expected and Actual Experience		228,040		284,359
Changes of assumptions		299,183		44,352
Net difference between Projected and Actual Earnings on Pension Plan investments		-		659,596
Employer and State contributions subsequent to the measurement date		364,721		
Total	\$	891,944	\$	988,307

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, 2022.

Other 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 September 30:	
2023	\$ (162,435)
2024	\$ (145, 138)
2025	\$ (151,359)
2026	\$ (128,115)
2027	\$ 77,350
Thereafter	\$ 48,613

Payable to the Pension Plan

On September 30, 2021, the Sponsor reported a payable of \$14,592 for the outstanding amount of contributions of the Pension Plan required for the year ended September 30, 2021.

PRELIMINARY PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS FISCAL YEAR SEPTEMBER 30, 2023

For the year ended September 30, 2023, the Sponsor will recognize a Pension Expense of \$381,504. 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	Int	eferred flows of esources
Differences between Expected and Actual Experience	335,334		185,432
Changes of assumptions	235,679		36,960
Net difference between Projected and Actual Earnings on Pension Plan investments	779,958		-
Employer and State contributions subsequent to the measurement date	TBD		-
Total	TBD	\$	222,392

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, 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:

Year ended September 30:	
2024	\$ 199,448
2025	\$ 193,227
2026	\$ 216,471
2027	\$ 421,936
2028	\$ 73,055
Thereafter	\$ 24,442

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 2 Fiscal Years

Reporting Period Ending		09/30/2023		9/30/2022
Measurement Date	(09/30/2022	0	9/30/2021
Total Pension Liability				
Service Cost		281,269		247,065
Interest		484,851		448,027
Changes of benefit terms		-		-
Differences between Expected and Actual Experience		171,094		(19,719)
Changes of assumptions		-		193,006
Benefit Payments, including Refunds of Employee Contributions		(187,163)		(190,196)
Net Change in Total Pension Liability		750,051		678,183
Total Pension Liability - Beginning		6,628,200		5,950,017
Total Pension Liability - Ending (a)	\$	7,378,251	\$	6,628,200
Plan Fiduciary Net Position				
Contributions - Employer		241,292		245,196
Contributions - State		123,429		76,435
Contributions - Employee		60,297		59,783
Net Investment Income		(1,070,172)		1,241,494
Benefit Payments, including Refunds of Employee Contributions		(187,163)		(190,196)
Administrative Expense		(24,078)		(22,240)
Net Change in Plan Fiduciary Net Position		(856,395)		1,410,472
Plan Fiduciary Net Position - Beginning		7,211,008		5,800,536
Plan Fiduciary Net Position - Ending (b)	\$	6,354,613	\$	7,211,008
Net Pension Liability - Ending (a) - (b)	\$	1,023,638	\$	(582,808)
Plan Fiduciary Net Position as a percentage of the Total Pension Liability		86.13%		108.79%
Covered Payroll	\$	1,205,936	\$	1,195,656
Net Pension Liability as a percentage of Covered Payroll		84.88%		-48.74%

Notes to Schedule:

Changes of assumptions:

For measurement date 09/30/2021, amounts reported as changes of assumtpions resulted from lowering the investment rate of return from 7.50% to 7.25% per year compounded annually, net of investment related expenses.

SCHEDULE OF CONTRIBUTIONS

Last 2 Fiscal Years

				ributions in ation to the					Contributions
	A	ctuarially	A	ctuarially	Co	ntribution			as a percentage
	De	etermined	De	etermined	D	eficiency		Covered	of Covered
Fiscal Year Ended	Co	ntribution	Cor	ntributions	ons (Excess)			Payroll	Payroll
09/30/2022	\$	\$ 299,072		\$ 364,721		\$ (65,649)		1,205,936	30.24%
09/30/2021	\$	321,631	\$	321,631	\$	-	\$	1,195,656	26.90%

Notes to Schedule

Valuation Date: 10/01/2020

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates can be found in the October 1, 2020 Actuarial Valuation of the North Bay Fire District Firefighters' Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

EXPENSE DEVELOPMENT AND AMORTIZATION SCHEDULES

The fo	llowing	g inf	format	ion :	is not	t required	l to	be d	iscl	osed	but	is	provi	ded	l fo	r i	inf	ormat	ional	l pur	poses	3.
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FINAL COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2022

	Net Pension Liability	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 149,481	\$ 546,892	\$ 836,529	\$ -
Employer and State Contributions made after 09/30/2021	-	-	364,721	-
Total Pension Liability Factors:				
Service Cost	247,065	-	-	247,065
Interest	448,027	-	-	448,027
Changes in benefit terms	-	-	-	-
Differences between Expected and Actual Experience				
with regard to economic or demographic assumptions	(19,719)	19,719	-	-
Current year amortization of experience difference	-	(98,927)	(39,358)	(59,569)
Change in assumptions about future economic or				
demographic factors or other inputs	193,006	-	193,006	-
Current year amortization of change in assumptions	-	(7,392)	(63,506)	56,114
Benefit Payments, including Refunds of Employee				
Contributions	(190,196)			
Net change	678,183	(86,600)	454,863	691,637
Plan Fiduciary Net Position:				
Contributions - Employer	245,196	_	(245,196)	-
Contributions - State	76,435	-	(76,435)	-
Contributions - Employee	59,783	_	-	(59,783)
Projected Net Investment Income	441,377	_	_	(441,377)
Difference between projected and actual earnings on				,
Pension Plan investments	800,117	800,117	-	-
Current year amortization	-	(220,224)	(25,939)	(194,285)
Benefit Payments, including Refunds of Employee				
Contributions	(190,196)	-	-	-
Administrative Expenses	(22,240)	-	-	22,240
Net change	1,410,472	579,893	(347,570)	(673,205)
Ending Balance	\$ (582,808)	\$ 1,040,185	\$ 943,822	\$ 18,432

PRELIMINARY COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2023

	Net Pension Liability	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ (582,808)	\$ 1,040,185	\$ 943,822	\$ -
Employer and State Contributions made after 09/30/2022	-	-	TBD*	-
Total Pension Liability Factors:				
Service Cost	281,269	-	-	281,269
Interest	484,851	-	-	484,851
Changes in benefit terms	-	-	-	-
Differences between Expected and Actual Experience				
with regard to economic or demographic assumptions	171,094	-	171,094	-
Current year amortization of experience difference	-	(98,927)	(63,800)	(35,127)
Change in assumptions about future economic or				
demographic factors or other inputs	-	-	-	-
Current year amortization of change in assumptions	-	(7,392)	(63,504)	56,112
Benefit Payments, including Refunds of Employee				
Contributions	(187,163)			
Net change	750,051	(106,319)	43,790	787,105
Plan Fiduciary Net Position:				
Contributions - Employer	241,292	_	(241,292)	_
Contributions - State	123,429	_	(123,429)	-
Contributions - Employee	60,297	_	-	(60,297)
Projected Net Investment Income	530,547	_	_	(530,547)
Difference between projected and actual earnings on	,			, , ,
Pension Plan investments	(1,600,719)	-	1,600,719	-
Current year amortization	_	(184,917)	(346,082)	161,165
Benefit Payments, including Refunds of Employee				
Contributions	(187,163)	-	-	-
Administrative Expenses	(24,078)	-	-	24,078
Net change	(856,395)	(184,917)	889,916	(405,601)
Ending Balance	\$ 1,023,638	\$ 748,949	TBD	\$ 381,504

^{*} Employer and State Contributions subsequent to the measurement date made after September 30, 2022 but made on or before September 30, 2023 need to be added.

AMORTIZATION SCHEDULE - INVESTMENTS

Increase (Decrease) in Pension Expense Arising from the Recognition of the of Differences Between Projected and Actual Earnings on Pension Plan Investments

	Differer	nces Between														
Plan Year	Projecte	ed and Actual	Recognition													
Ending	Ea	arnings	Period (Years)	2022	2023	2024	2025	2026	2027	2028	2029		2030		203	1
2022	\$	1,600,719	5	\$ -	\$ 320,143	\$ 320,144	\$ 320,144	\$ 320,144	\$ 320,144	\$ -	\$	- :	\$	-	\$	-
2021	\$	(800,117)	5	\$ (160,025)	\$ (160,023)	\$ (160,023)	\$ (160,023)	\$ (160,023)	\$ -	\$ -	\$	- :	\$	-	\$	-
2020	\$	(116,222)	5	\$ (23,244)	\$ (23,244)	\$ (23,244)	\$ (23,244)	\$ -	\$ -	\$ -	\$	- :	\$	-	\$	-
2019	\$	129,695	5	\$ 25,939	\$ 25,939	\$ 25,939	\$ -	\$ -	\$ -	\$ -	\$	- :	\$	-	\$	-
2018	\$	(8,249)	5	\$ (1,650)	\$ (1,650)	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- :	\$	-	\$	-
2017	\$	(176,524)	5	\$ (35,305)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-
Net Increase	e (Decreas	se) in Pension	Expense	\$ (194,285)	\$ 161,165	\$ 162,816	\$ 136,877	\$ 160,121	\$ 320,144	\$ -	\$	- :	\$	-	\$	-

North Bay Fire District Firefighters' Pension Trust Fund

AMORTIZATION SCHEDULE - CHANGES OF ASSUMPTIONS

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions

Plan Year Ending		Changes of	Recognition Period (Years)		2022	2023	2024	2025	2026	2027		2028		2029	2	030		2031	
Lituting		Assumptions	Terrou (Tears)		2022	2023	2024	2023	2020	2021		2020		2029		.030		2031	
2021	\$	193,006	7	\$	27,574 \$	27,572	\$ 27,572	\$ 27,572	\$ 27,572	\$ 27,572	\$	27,572	\$	-	\$	-	- \$	\$	-
2020	\$	(59,136)	8	\$	(7,392) \$	(7,392)	\$ (7,392)	\$ (7,392)	\$ (7,392)	\$ (7,392)	\$	(7,392)	\$	-	\$	-	- 5	\$	-
2019	\$	165,030	8	\$	20,629 \$	20,629	\$ 20,629	\$ 20,629	\$ 20,629	\$ 20,629	\$	-	\$	-	\$	-	- 5	\$	-
2017	\$	29,167	7	\$	4,167 \$	4,167	\$ 4,167	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	- 5	\$	-
2016	\$	89,089	8	\$	11,136 \$	11,136	\$ 11,136	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	- 5	\$	-
Net Increase (Decrease) in Pension Expense					56,114 \$	56,112	\$ 56,112	\$ 40,809	\$ 40,809	\$ 40,809	\$	20,180	\$	_	\$		- 5	\$	

North Bay Fire District Firefighters' Pension Trust Fund

AMORTIZATION SCHEDULE - EXPERIENCE

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience

	Di	fferences Between															
Plan Year	Ex	pected and Actual	Recognition														
Ending		Experience	Period (Years)	2022	2023	2024		2025	2026	2027	2028	2029	2030		2	2031	
																	_
2022	\$	171,094	7	\$ - \$	24,442	\$ 24,442 \$	5	24,442	\$ 24,442	\$ 24,442	\$ 24,442	\$ 24,442	\$	-	\$		-
2021	\$	(19,719)	7	\$ (2,817) \$	(2,817)	\$ (2,817) \$	5	(2,817)	\$ (2,817)	\$ (2,817)	\$ (2,817)	\$ -	\$	-	\$		-
2020	\$	250,003	8	\$ 31,250 \$	31,250	\$ 31,250 \$	5	31,250	\$ 31,250	\$ 31,250	\$ 31,250	\$ -	\$	-	\$		-
2019	\$	64,861	8	\$ 8,108 \$	8,108	\$ 8,108 \$	\$	8,108	\$ 8,108	\$ 8,108	\$ _	\$ _	\$	-	\$		-
2018	\$	(363,536)	8	\$ (45,442) \$	(45,442)	\$ (45,442) \$	\$	(45,442)	\$ (45,442)	\$ _	\$ _	\$ _	\$	-	\$		-
2017	\$	(168,931)	7	\$ (24,133) \$	(24,133)	\$ (24,133) \$	5	-	\$ _	\$ -	\$ -	\$ -	\$	-	\$		-
2016	\$	(87,107)	8	\$ (10,888) \$	(10,888)	\$ (10,888) \$	5	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$		-
2015	\$	(125,177)	8	\$ (15,647) \$	(15,647)	\$ - \$	5	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$		-
Net Increas	e (De	ecrease) in Pension	Expense	\$ (59,569) \$	(35,127)	\$ (19,480) \$	<u> </u>	15,541	\$ 15,541	\$ 60,983	\$ 52,875	\$ 24,442	\$	_	\$		_

North Bay Fire District Firefighters' Pension Trust Fund