

Annual Comprehensive Financial Report For the Year Ended December 31, 2022



San Joaquin County Employees' Retirement Association A Pension Trust Fund of San Joaquin County, CA



A Pension Trust Fund of San Joaquin County, CA

Annual Comprehensive Financial Report For the Year Ended December 31, 2022

ISSUED BY SAN JOAQUIN COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

Johanna Shick, Chief Executive Officer Carmen Murillo, Financial Officer 6 So. El Dorado Street, Suite 400 (2 Stockton, California 95202 w

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San Joaquin County Employees' Retirement Association

6 S. El Dorado Street, Suite 400 • Stockton, CA 95202 • (209) 468-2163 • (209) 468-0480 • www.sjcera.org

May 25, 2023 Board of Retirement 6 S. El Dorado Street, Suite 400 Stockton, CA 95202

To SJCERA's Trustees, Members and Beneficiaries, Plan Sponsor and Participating Employers:

I am pleased to present the Annual Comprehensive Financial Report for the year ended December 31, 2022. This report provides a detailed overview of the SJCERA Plan and the fund's financial,



actuarial and investment-related activities for the year. All data and information presented is accurate and reliable, conforms to generally accepted accounting principles, and is free of material misstatements. This *Letter of Transmittal* is a narrative introduction to the *Annual Comprehensive Financial Report*; I encourage you to read it in conjunction with the *Management's Discussion and Analysis* included in the Financial Section.

SJCERA AND ITS SERVICES

SJCERA is a public employee defined benefit retirement system established by the San Joaquin County Board of Supervisors effective June 28, 1946. SJCERA is administered by the Board of Retirement (Board) to provide retirement, disability and survivors' benefits to its members under the County Employees Retirement Law (CERL) and the Public Employees' Pension Reform Act of 2013 (PEPRA). SJCERA provides benefits to eligible General and Safety members employed by SJCERA participating employers:

- · Lathrop-Manteca Rural Fire Protection District
- Mountain House Community Services District
- San Joaquin County
- · San Joaquin County Historical Society and Museum
- San Joaquin County Law Library
- San Joaquin County Mosquito and Vector Control District
- San Joaquin County Superior Court
- San Joaquin Local Agency Formation Commission
- Tracy Public Cemetery District
- Waterloo-Morada Rural Fire Protection District

The Board of Retirement has exclusive control and fiduciary responsibility for administering the benefits and managing the investment of plan assets. The Board oversees the Chief Executive Officer and staff in their administration of the plan. SJCERA operates in accordance with the Internal Revenue Code, the California State Constitution, the applicable sections of CERL and PEPRA, and the bylaws, resolutions, policies, and procedures adopted by the Board. The San Joaquin County Board of Supervisors may also adopt resolutions, as permitted by law, which may affect benefits of SJCERA members.

Letter of Transmittal

The nine-member Board of Retirement consists of four trustees appointed by the Board of Supervisors, the San Joaquin County Treasurer-Tax Collector, and four trustees elected by SJCERA members. In addition, the Board has two alternate positions elected by members: one alternate retired member position, and one alternate active Safety member position, which is currently vacant.

FINANCIAL INFORMATION

SJCERA management is responsible for the accuracy, completeness, and fair presentation of the information in this report as well as for establishing and maintaining internal controls ensuring SJCERA's financial reporting is accurate and reliable, and SJCERA's assets are protected from loss, theft or misuse. Internal controls are designed to provide reasonable, but not absolute, assurance these objectives are met. Reasonable assurance recognizes the cost of a control relative to the benefits likely to be derived and these judgments by management are based on estimates.

Brown Armstrong Accountancy Corporation, a certified public accounting firm, has audited SJCERA's financial statements and related disclosures, which are prepared by management. Brown Armstrong attests they are presented in conformity with generally accepted accounting principles (GAAP) in the United States of America as promulgated by the Governmental Accounting Standards Board (GASB) and are free from material misstatement. Internal controls are sufficient to provide reasonable assurance regarding the safekeeping of assets and fair presentation of the financial statements and supporting schedules. The accompanying basic financial statements and transactions of the organization are prepared on the accrual basis of accounting.

INVESTMENTS

SJCERA's diversified strategic asset allocation is designed to achieve SJCERA's long-term objectives. For the year ended December 31, 2022, the total fund generated a gross of fees return of -6.7%. Although this is below SJCERA's 6.75% assumed rate of return (our target), the portfolio's performance during this time period ranks 13th best nationwide of public pension plans greater than \$1 billion. It was a difficult year for investments— the Standard & Poor's 500 Index return was -18.01%; however, SJCERA's diversified portfolio, with its downside protection, performed comparatively well. As of December 31, 2022, the plan assets were approximately \$3.8 billion. More information about SJCERA's investments is included in the Investments section.

FUNDING

SJCERA engages a professional pension actuary to perform an annual actuarial valuation and Governmental Accounting Standards Board (GASB) 67/68 Report. The GASB 67/68 Report indicates during 2022, SJCERA's total pension liability increased from \$5.4 billion to \$5.5 billion, the market value of assets decreased from \$4.2 billion to \$3.8 billion, and the net pension liability increased from \$1.2 billion to \$1.7 billion.

Letter of Transmittal

The actuarial valuation determines the progress made in accumulating sufficient assets to pay benefits when due. The January 1, 2023 valuation, which reflects the plan's progress in 2022, will be available in August 2023, after the publication of this report. As a result, the detailed discussion of funding provided in the Actuarial section of this report is based on the January 1, 2022 valuation, which reflects SJCERA's progress in 2021. During that time period, the funded ratio increased from 68.1% to 78.0% on a Market Value of Assets (MVA) basis, the highest since 2007. As reported in Note 8 of the Financial Section of this report, the MVA funded ratio, which will be reported in our August 2023 valuation will decrease but is still expected to be close to 70%.

Three SJCERA Participating Employers continue to make additional contributions to the Unfunded Liability: the County of San Joaquin, the Superior Court and the Mosquito and Vector Control District.

MAJOR INITIATIVES

Staff and the Board have much to be proud of in 2022. SJCERA completed its asset liability study and actuarial experience study, adopted a new strategic asset allocation, implemented cyber security audit recommendations, and initiated the pension administration system and data clean-up/data conversion projects to name a few. Additional 2022 accomplishments, a few of which are summarized below, reflected optimism and growth.

Strengthen the long-term financial health of the Retirement Plan. The Board of Retirement took steps to strengthen the long term health of the plan by conducting an Actuarial Experience Study and adopting assumption changes recommended as a result of the study. The Board also lowered the assumed rate of return from 7% to 6.75%, which staff implemented by making the required system and procedural changes.

The Board also conducted an Asset-Liability Study to assess its risk tolerance and the level of risk needed to meet the actuarial assumptions. As a result of the study, the Board adopted a revised Strategic Asset Allocation policy in June. The new allocation is expected meet or exceed the return assumption and improve funded status over time, which are the Board's top two priorities.

Manage Emerging Organizational Needs. In addition to the Action Plan results, staff completed the following projects: the Investment Counsel RFP, Alameda decision, Tier 2 pensionable compensation revisions, and death audit process enhancements.

Enhance the Member Experience. Improvements to the website architecture and functionality were implemented with the new website going live in August. The new site is more user-friendly, has search capabilities and enhances the member's over all experience.

ACHIEVEMENTS IN FINANCIAL REPORTING AND PLAN ADMINISTRATION

The Government Finance Officers Association (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to SJCERA for its *Annual Comprehensive Financial Report* (ACFR) for the Year Ended December 31, 2022. This award recognizes compliance with the highest standards for state and local government financial reporting. SJCERA also

Letter of Transmittal

received the GFOA award for Outstanding Achievement in Popular Annual Financial Reporting, a condensed financial report for members, in an easier to read format. Additionally, the Public Pension Coordinating Council honored SJCERA with the Public Pension Standards Award for Funding and Administration.

ACKNOWLEDGMENT

SJCERA's success, as reflected in this report, is the result of the combined effort of many. I want to recognize the trustees of the Board of Retirement for their leadership and policy decisions, which provide direction and focus to our work. Additionally, I want to thank SJCERA's advisors whose diligent efforts help ensure the successful operation of SJCERA. Finally, I want to thank SJCERA's staff for their dedicated service to our members, commitment to administering the Plan with integrity, and hard work in compiling this report. None of SJCERA's success would be possible without them.

Sincerely,

Johanna Shick Chief Executive Officer

Certificate of Achievement for Excellence in Financial Reporting



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

San Joaquin County Employees' Retirement Association California

For its Annual Comprehensive Financial Report For the Fiscal Year Ended

December 31, 2021

Christopher P. Morrill

Executive Director/CEO

Public Pension Standards Award For Funding and Administration 2022



Public Pension Coordinating Council

Public Pension Standards Award For Funding and Administration 2022

Presented to

San Joaquin County Employees' Retirement Association

In recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA) National Conference on Public Employee Retirement Systems (NCPERS) National Council on Teacher Retirement (NCTR)

alan Mulinele

Alan H. Winkle Program Administrator

Members of the Board of Retirement as of December 31, 2022



MICHAEL RESTUCCIA Chair Appointed by Board of Supervisors



MICHAEL DUFFY Vice Chair Appointed by Board of Supervisors



RAYMOND MCCRAY Secretary Appointed by Board of Supervisors



CHANDA BASSETT Elected by Safety Members



JENNIFER GOODMAN Elected by General Members



PHONXAY KEOKHAM Ex-Officio Member



STEVE MOORE Appointed by Board of Retirement - Alternate



EMILY NICHOLAS Elected by General Members

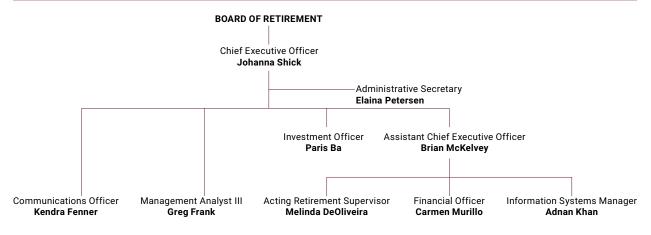


ROBERT RICKMAN Appointed by Board of Supervisors



J.C. WEYDERT Elected by Retired Members

Administrative Organization Chart as of December 31, 2022



List of Professional Consultants

CONSULTING SERVICES

ACTUARY

Cheiron Actuaries

AUDITORS

Brown Armstrong Accountancy Corporation

CUSTODIAN

Northern Trust Company

INFORMATION SYSTEMS

IG, Incorporated MBS Linea

INVESTMENT CONSULTANTS

Meketa Investment Group

LEGAL COUNSEL

Buchalter Nossaman, LLP Rimon Law San Joaquin County Counsel Vivian W. Shultz, Attorney At Law

Please refer to the Investment Section for a Schedule of Investment Fees and Schedule of Commissions, page 67, and the List of Investment Managers on page 70.



Independent Auditor's Report



www.ba.cpa 661-324-4971

INDEPENDENT AUDITOR'S REPORT

To the Members of the Board of Retirement and Audit Committee of San Joaquin County Employees' Retirement Association Stockton, California

Report on the Audit of the Financial Statements

Opinions

We have audited the accompanying Statement of Fiduciary Net Position of the San Joaquin County Employees' Retirement Association (SJCERA), a pension trust fund of the County of San Joaquin, as of December 31, 2022, the related Statement of Changes in Fiduciary Net Position for the year then ended, and the related notes to the financial statements, which collectively comprise SJCERA's basic financial statements as listed in the table of contents. We have also audited the Schedule of Cost Sharing Employer Allocations and the Schedule of Employer Pension Amounts Allocated by Cost Sharing Plan total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (specified column totals) as of and for the year ended December 31, 2022, listed as other information in the table of contents.

In our opinion, the basic financial statements referred to above present fairly, in all material respects, the fiduciary net position of SJCERA as of December 31, 2022; the changes in fiduciary net position for the year then ended; and the Schedule of Cost Sharing Employer Allocations and the Schedule of Employer Pension Amounts Allocated by Cost Sharing Plan total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (specified column totals) as of and for the year ended December 31, 2022, in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of SJCERA and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

BAKERSFIELD 4200 Trustun Avertue, State 300 Bakersfield, CA 93309 661-324-4971

FRESNO 10 River Park Place East, Suite 208 Fresno, CA 93720 559-476-3592

1

STOCKTON 2423 West March Line, Suite 202 Stockton, CA 95219 209-451-4833

CONTERPTI with the Public Company Accounting Phorought Board and MEMBER of the Associant Institute of Compile Public Accountions

Independent Auditor's Report

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about SJCERA's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Management is also responsible for maintaining a current plan instrument, including all plan amendments; administering the plan; and determining that the plan's transactions that are presented and disclosed in the financial statements are in conformity with the plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to
 fraud or error, and design and perform audit procedures responsive to those risks. Such procedures
 include examining, on a test basis, evidence regarding the amounts and disclosures in the financial
 statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of SJCERA's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant
 accounting estimates made by management, as well as evaluate the overall presentation of the
 financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about SJCERA's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis (MD&A) and required supplementary information (RSI), as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board (GASB), who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the MD&A and RSI in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Independent Auditor's Report

Supplementary Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise SJCERA's basic financial statements. The supplementary information, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with GAAS. In our opinion, the supplementary information, as listed in the table of contents, is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Information

Management is responsible for the other information included in the annual report. The other information comprises the introductory, investment, actuarial, and statistical sections but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Report on Summarized Comparative Information

We have previously audited SJCERA's December 31, 2021, financial statements, and our report dated May 24, 2022, expressed an unmodified opinion on those audited financial statements. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2021, is consistent in all material respects, with the audited financial statements from which it has been derived.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated May 25, 2023, on our consideration of SJCERA's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of SJCERA's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering SJCERA's internal control over financial reporting and compliance.

> BROWN ARMSTRONG ACCOUNTANCY CORPORATION

Brown Armstrong Secountancy Corporation

Bakersfield, California May 25, 2023

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Management's Discussion and Analysis

INTRODUCTION

Management's Discussion and Analysis (MD&A) presents the overview and analysis of the financial activities of the San Joaquin County Employees' Retirement Association (SJCERA or the Plan) for the year ended December 31, 2022. This MD&A presents SJCERA's overall financial position and the results of its operations, in conjunction with SJCERA's financial statements and notes.

FINANCIAL HIGHLIGHTS

- SJCERA's fiduciary net position decreased by \$381.0 million, or 9.07 percent, to \$3.8 billion as of December 31, 2022.
- SJCERA's funding objective is to meet long-term benefit obligations through contributions and investment income. As of January 1, 2022, the date of the last actuarial valuation, the funded ratio for the actuarial liability was approximately 72.4 percent. In general, this indicates that for every dollar of benefits liability, SJCERA has about 72 cents. The portion of the pension liability attributable to inactive members (retired or deferred) is fully funded by plan assets. (Note 8c provides a more detailed explanation of recent changes in the funded ratio.)
- Revenues for the year were \$(96.0) million, a decrease of \$1.0 billion from the prior year. The decrease was mainly caused by the decrease in net investment gains/(losses) compared to the prior year.
- Expenses for the year were \$285.0 million, an increase of \$14.4 million, or 5.31 percent, from the prior year's \$270.6 million. This increase was primarily due to the \$11.1 million increase in pension benefit payments to retirees.

OVERVIEW OF FINANCIAL STATEMENTS

The SJCERA 2022 financial statements, notes to the financial statements, required supplementary information, other supplementary information, and other information were prepared in accordance with the accounting principles and reporting standards prescribed by the Governmental Accounting Standards Board (GASB). The following discussion and analysis are intended to serve as an introduction and overview of SJCERA's financial reporting components.

The **Statement of Fiduciary Net Position** is the financial statement that presents the major categories of assets and liabilities and their related values. It represents the resources available for future benefit payments to retirees and beneficiaries and the current liabilities owed as of December 31, 2022, with comparative totals as of December 31, 2021.

The **Statement of Changes in Fiduciary Net Position** is the financial statement that provides an income statement presentation of annual additions to and deductions from the Plan for the year ended December 31, 2022, with comparative totals as of December 31, 2021.

Management's Discussion and Analysis

The **Notes to the Basic Financial Statements** provide additional information that is essential to a full understanding of the data provided in the audited financial statements.

The **Required Supplementary Information** provides the Schedule of Changes in Net Pension Liability and Related Ratios, Schedule of Contributions from the Employers and Other Contributing Sources, Schedule of Investment Returns, and Note to Required Supplementary Information.

The **Other Supplementary Information** includes a Schedule of Administrative Expenses, Schedule of Investment Expenses, and Schedule of Payments to Consultants.

The **Other Information** includes two schedules pertaining to GASB Statement No. 68: the Schedule of Cost Sharing Employer Allocations and the Schedule of Employer Pension Amounts Allocated by Cost Sharing Plan.

DEFINED BENEFIT PENSION PLAN FINANCIAL ANALYSIS

As of December 31, 2022, SJCERA's Fiduciary Net Position was \$3.8 billion, a decrease of \$381.0 million. Employer and member contributions of \$316.5 million were offset by a net investment loss of \$412.8 million and benefits payments and administrative expenses of \$285.0 million. Over time, increases and decreases in fiduciary net position are one of the indicators of whether SJCERA's financial situation is improving or deteriorating. Additional factors, such as market conditions, also need to be considered in assessing SJCERA's overall financial situation.

The table below compares SJCERA's fiduciary net position as of December 31, 2022 and 2021.

SJCERA Fiduciary Net Position

| | 2022 | 2021 | INCREASE (DECREASE) AMOUNT | PERCENT CHANGE |
|---|---------------------|---------------------|----------------------------------|-------------------|
| Cash and Receivables | \$ 285,084,691 | \$ 469,732,200 | \$ (184,647,509) | -39.31% |
| Investments | 3,660,701,904 | 3,893,690,230 | (232,988,326) | -5.98% |
| Other Assets | 3,256,125 | 254,019 | 3,002,106 | 1,181.84% |
| TOTAL ASSETS | 3,949,042,720 | 4,363,676,449 | (414,633,729) | -9.50% |
| TOTAL LIABILITIES | 131,289,958 | 164,888,445 | (33,598,487) | -20.38% |
| TOTAL FIDUCIARY NET POSITION RESTRICTED FOR PENSION BENEFITS | \$ 3,817,752,762 | \$ 4,198,788,004 | \$ (381,035,242) | -9.07% |

REVENUES – ADDITIONS TO FIDUCIARY NET POSITION

The reserves needed to finance the retiree benefits are accumulated through the collection of employer and member contributions, and earnings on investments. The additions for the year ended December 31, 2022, totaled \$(96.0) million. Net investment losses totaled \$(412.8) million. The overall year 2022 revenues decreased by \$1.0 billion from that of the prior year, primarily due to more investment losses.

Management's Discussion and Analysis

In 2022, the San Joaquin County (County), San Joaquin County (SJC) Mosquito and Vector Control District (MCVD), and SJC Superior Court paid additional contributions to decrease their proportionate share of the unfunded actuarial liability (UAL). Employer contributions decreased by \$37.6 million, or 12.26 percent, over the prior year, and member contributions increased by \$3.9 million, or 9.09 percent, over the prior year. The County and the majority of its members equally share the normal cost of pre-funding post-retirement cost-of-living adjustments. Some members also pay 114% or 133% of the basic member contribution. Employers pay all of the required UAL amortization payment.

EXPENSES – DEDUCTIONS FROM FIDUCIARY NET POSITION

SJCERA's primary expenses are the payment of benefits to retirees and beneficiaries, the refund of contributions to former members, and the administrative costs. Expenses for the year 2022 totaled \$285.0 million, an increase of 5.31 percent over 2021. The increase is primarily attributed to the annual cost-of-living adjustment to retirees' benefit payments and the growth in the number and average amount of benefits paid to retirees.

The table below compares SJCERA's Changes in Fiduciary Net Position.

| | | 2022 | 2021 | INCREASE (DECREASE) AMOUNT | PERCENT CHANGE |
|--|------|---------------|---------------------|----------------------------------|-------------------|
| ADDITIONS | | | | | |
| Employer Contributions | \$ | 269,080,047 | \$ 306,662,635 | \$ (37,582,588) | -12.26% |
| Member Contributions | | 47,405,308 | 43,455,640 | 3,949,668 | 9.09% |
| Net Investment Income (Loss) and Miscellaneous Income | | (412,759,726) | 572,291,948 | (985,051,674) | -172.12% |
| Transfer from Healthcare Custodial Fund | | 224,628 | 270,570 | (45,942) | -16.98% |
| TOTAL ADDITIONS | \$ | (96,049,743) | \$ 922,680,793 | \$ (1,018,730,536) | -110.41% |
| DEDUCTIONS | | | | | |
| Retirement Benefit Payments | \$ | 272,424,374 | \$ 261,371,770 | \$ 11,052,604 | 4.23% |
| Death Benefits | | 760,072 | 608,396 | 151,676 | 24.93% |
| Refund of Contributions | | 6,179,349 | 3,985,433 | 2,193,916 | 55.05% |
| Administrative and Other Expenses | | 5,621,704 | 4,639,439 | 982,265 | 21.17% |
| TOTAL DEDUCTIONS | \$ | 284,985,499 | \$ 270,605,038 | \$ 14,380,461 | 5.31% |
| NET INCREASE (DECREASE) | \$ | (381,035,242) | \$ 652,075,755 | \$ (1,033,110,997) | -158.43% |
| FIDUCIARY NET POSITION RESTRICTED FOR | PENS | SION BENEFITS | | | |
| Beginning of Year | | 4,198,788,004 | 3,546,712,249 | 652,075,755 | 18.39% |
| End of Year | \$ | 3,817,752,762 | \$ 4,198,788,004 | \$ (381,035,242) | -9.07% |

Changes in Fiduciary Net Position

Management's Discussion and Analysis

PLAN ADMINISTRATION

SJCERA MEMBERSHIP

The table below provides comparative SJCERA membership data for the last two years. Total membership as of December 31, 2022, was 15,727, an increase of 364 members, or 2.37 percent, compared to December 31, 2021.

SJCERA Membership

AS OF DECEMBER 31, 2022 AND 2021

| | 2022 | 2021 | INCREASE (DECREASE) AMOUNT | PERCENT CHANGE |
|------------------|--------|--------|----------------------------------|-------------------|
| Active Members | 6,381 | 6,347 | 34 | 0.54% |
| Retired Members | 6,685 | 6,529 | 156 | 2.39% |
| Deferred Members | 2,661 | 2,487 | 174 | 7.00% |
| TOTAL MEMBERSHIP | 15,727 | 15,363 | 364 | 2.37% |

ADMINISTRATIVE EXPENSES

The County Employees Retirement Law of 1937 (CERL) Section 31580.2 limits the Administrative Expense to twenty-one hundredths of one percent (0.21 percent) of the accrued actuarial liability (AAL) of the system.

The table below provides comparison of the actual administrative expenses for the calendar years ended 2022 and 2021. The AAL was used to calculate the statutory budget amount. SJCERA's administrative expenses were well below the limit imposed by CERL for both years.

Compliance with Statutory Limitation Administrative Expenses

AS OF DECEMBER 31, 2022 AND 2021 (Dollars in Thousands)

| | 2022 | 2021 |
|--|-----------|-----------|
| BASIS FOR BUDGET CALCULATION (ACCRUED ACTUARIAL LIABILITY) | | |
| Actual Administrative Expenses | \$ 4,627 | \$ 3,665 |
| Accrued Actuarial Liability as Basis for Budget Calculation* | 5,207,669 | 5,013,632 |
| ADMINISTRATIVE EXPENSES AS A PERCENTAGE OF | | |
| The Basis for Budget Calculation | 0.09% | 0.07% |
| Limit per CERL | 0.21% | 0.21% |

* Based on valuations dated January 1, 2021 and January 1, 2020, respectively.

ACTUARIAL VALUATIONS

SJCERA engages an independent actuarial firm, Cheiron, Inc., to perform an annual actuarial valuation to monitor its funding and funding integrity. The valuation assesses the magnitude of SJCERA's benefit commitments, in comparison with the assets expected to be available to support those commitments. The most recent annual actuarial valuation as of

Management's Discussion and Analysis

January 1, 2022, contains a detailed discussion of the funding requirements. This valuation is used for funding purposes and establishing employer and member contributions rates. As of January 1, 2022, the pension plan's accrued actuarial liabilities were \$5.3 billion and the market value of assets net of Special Reserves (market value of assets basis) was \$4.2 billion, resulting in UAL of \$1.1 billion. The funded status (ratio) of market value of assets basis over accrued actuarial liabilities was 78.0 percent which increased from 68.1 percent. It also increased to 72.4 percent from 67.0 percent on an actuarial value of assets.

For the year ended December 31, 2022, a GASB Statement No. 67/68 report was prepared by Cheiron, Inc., to provide accounting and financial disclosure information. In order to accommodate the annual reporting requirements of our plan sponsors in a timely manner, the valuation was prepared using the January 1, 2022 valuation as the basis for calculating the total pension liability (TPL) and projected to December 31, 2022. Based on this actuarial valuation, the TPL was \$5.5 billion compared to a fiduciary net position of \$3.8 billion, resulting in the employers' net pension liability (NPL) of \$1.7 billion and a fiduciary net position as a percentage of TPL of 69.2 percent. The NPL as a percentage of covered payroll was 351.07 percent. Please see the Note 8 for more details.

REPORTING SJCERA'S FIDUCIARY RESPONSIBILITIES

SJCERA's Board of Retirement and staff are fiduciaries for the pension plan. Accordingly, SJCERA is responsible for ensuring that the assets reported in the statements are used for the intended purpose of paying retirement benefits to the eligible members and beneficiaries.

CONTACTING SJCERA'S MANAGEMENT

This financial report is designed to provide the Board of Retirement, the membership, taxpayers, and investment managers with a general overview of SJCERA's finances and to show SJCERA's accountability for the money it receives. Any questions about this report, or need for additional financial information, can be addressed to SJCERA, 6 South El Dorado Street, Suite 400, Stockton, California 95202.

Respectfully Submitted,

Carmen Murillo Financial Officer May 25, 2023

Statement of Fiduciary Net Position

SAN JOAQUIN COUNTY EMPLOYEES' RETIREMENT ASSOCIATION STATEMENT OF FIDUCIARY NET POSITION AS OF DECEMBER 31, 2022 (WITH COMPARATIVE TOTALS)

| | 20 | 22 | 2021 | | | | |
|---|---------------------------------|---|---------------------------------|---|--|--|--|
| | Defined Benefit Pension Plan | Post- Employment Healthcare Custodial Fund | Defined Benefit Pension Plan | Post- Employment Healthcare Custodial Fund | | | |
| Assets | | | | | | | |
| Cash and Short-Term Investments | | | | | | | |
| Cash and Cash Equivalents | \$ 141,351,530 | \$ 52,449 | \$ 323,434,089 | \$ 72,537 | | | |
| Cash Collateral - Securities Lending | 125,564,604 | | 84,977,773 | - | | | |
| Total Cash and Short-Term Investments | 266,916,134 | 52,449 | 408,411,862 | 72,537 | | | |
| Receivables | | | | | | | |
| Investment Income Receivables | 4,856,348 | - | 3,563,318 | - | | | |
| Contributions Receivable | 12,924,613 | - | 11,131,624 | | | | |
| Securities Sold, Not Received | 308,690 | - | 46,579,831 | - | | | |
| Miscellaneous Receivables | 78,906 | | 45,565 | | | | |
| Total Receivables | 18,168,557 | | 61,320,338 | | | | |
| Investments, at Fair Value | | | | | | | |
| Aggressive Growth | 358,058,142 | - | 320,476,667 | | | | |
| Traditional Growth | 1,316,293,371 | - | 1,542,821,008 | - | | | |
| Risk Parity | 358,053,342 | - | 449,916,750 | - | | | |
| Credit | 579,784,841 | - | 567,163,705 | | | | |
| Crisis Risk Offset (CRO) | 531,550,354 | - | 462,372,268 | - | | | |
| Principal Protection | 278,165,455 | | 330,858,456 | | | | |
| Core Real Assets | 238,796,399 | | 220,081,376 | | | | |
| Total Investments, at Fair Value | 3,660,701,904 | | 3,893,690,230 | | | | |
| Other Assets | | | | | | | |
| Prepaid Expenses | 112,740 | - | 99,975 | - | | | |
| Equipment and Fixtures, Net | 3,143,385 | | 154,044 | | | | |
| Total Other Assets | 3,256,125 | | 254,019 | | | | |
| Total Assets | 3,949,042,720 | 52,449 | 4,363,676,449 | 72,537 | | | |
| Liabilities | | | | | | | |
| Securities Lending - Cash Collateral | 2,354,013 | _ | 78,775,961 | - | | | |
| Securities Purchased, Not Paid | 125,564,604 | - | 84,977,773 | - | | | |
| Accrued Expenses and Other Payables | 2,910,428 | - | 1,127,029 | - | | | |
| Securities Lending Interest and Other Payables | 460,913 | | 7,682 | | | | |
| Total Liabilities | 131,289,958 | | 164,888,445 | | | | |
| Fiduciary Net Position Restricted for Pension and Post-Employment Healthcare Benefits | | | A 4 400 700 00 4 | | | | |
| nearingare benefits | \$ 3,817,752,762 | \$ 52,449 | \$ 4,198,788,004 | \$ 72,537 | | | |
| | | | | | | | |

The accompanying notes are an integral part of these financial statements.

Statement of Changes in Fiduciary Net Position

SAN JOAQUIN COUNTY EMPLOYEES' RETIREMENT ASSOCIATION STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED DECEMBER 31, 2022 (WITH COMPARATIVE TOTALS)

| | 20 | 22 | 2021 | | | |
|---|--|---|--|---|--|--|
| | Defined Benefit Pension Plan | Post- Employment Healthcare Custodial Fund | Defined Benefit Pension Plan | Post- Employment Healthcare Custodial Fund | | |
| Additions Contributions | | | | | | |
| Employer Contributions Member Contributions Employer Contributions to Healthcare Benefits | \$ 269,080,047 47,405,308 | \$ - 3,798,073 | \$ 306,662,635 43,455,640 | \$- - 3,938,219 | | |
| Total Contributions | 316,485,355 | 3,798,073 | 350,118,275 | 3,938,219 | | |
| Net Investment Income (Loss) Net Appreciation (Depreciation) in Fair Value of Investments Interest Dividends Real Estate Income, Net | (430,790,861) 22,172,800 13,078,024 9,918,342 | | 554,256,496 22,966,328 10,179,197 9,333,819 | | | |
| Investment Expenses | (27,241,048) | - | (25,722,039) | - | | |
| Miscellaneous Investment Income | 359 | | 39 | · | | |
| Net Investment Income (Loss), Before Securities Lending Income | (412,862,384) | | 571,013,840 | | | |
| Securities Lending Income Earnings Rebates Fees | 2,405,593 (2,258,901) (125,574) | - | 388,378 519 (97,171) | | | |
| Net Securities Lending Income | 21,118 | | 291,726 | | | |
| Total Net Investment Income (Loss) | (412,841,266) | - | 571,305,566 | | | |
| Miscellaneous Income | 81,540 | - | 986,382 | - | | |
| Transfer Between Plans | 224,628 | | 270,570 | | | |
| Total Additions | (96,049,743) | 3,798,073 | 922,680,793 | 3,938,219 | | |
| <u>Deductions</u> Benefit Payments Death Benefits Refunds of Member Contributions | 272,424,374 760,072 6,179,349 | 3,593,533 - - | 261,371,770 608,396 3,985,433 | 3,571,436 - - | | |
| Administrative Expenses General Administrative Expenses Other Expenses | 4,627,135 | - | 3,664,872 | | | |
| Information Technology Expenses Actuary Fees Fund Legal Fees | 335,386 167,671 491,512 | | 163,828 206,203 604,536 | - | | |
| Total Administrative and Other Expenses | 5,621,704 | | 4,639,439 | | | |
| Transfer Between Plans | | 224,628 | | 270,570 | | |
| Total Deductions | 284,985,499 | 3,818,161 | 270,605,038 | 3,842,006 | | |
| Changes in Fiduciary Net Position | (381,035,242) | (20,088) | 652,075,755 | 96,213 | | |
| Fiduciary Net Position Restricted for Pension and Post-Employment Healthcare Benefits | | | | | | |
| Beginning of Year | 4,198,788,004 | 72,537 | 3,546,712,249 | (23,676) | | |
| End of Year | \$ 3,817,752,762 | \$ 52,449 | \$ 4,198,788,004 | \$ 72,537 | | |

The accompanying notes are an integral part of these financial statements.

Notes to the Financial Statements

The San Joaquin County Employees' Retirement Association (SJCERA) is the public employee retirement system established by the County of San Joaquin (County) and is administered by the Board of Retirement of SJCERA (Board) to provide retirement, disability, and survivor benefits under the County Employees Retirement Law of 1937 (CERL) for the employees of the County and nine other participating employers within the County. SJCERA also administers the Post-Employment Healthcare Custodial Fund. Although the assets of the plans (defined benefit pension and post-employment healthcare) are commingled for investment purposes, each plan's assets may be used only for the payment of benefits to eligible members and beneficiaries of that plan, in accordance with the terms of the plan. A description of the Post-Employment Healthcare Custodial Fund is located in Note 2. All notes to the financial statements apply to both plans unless indicated otherwise.

NOTE 1 – DEFINED BENEFIT PENSION PLAN DESCRIPTION

A. GENERAL DESCRIPTION

SJCERA is a public retirement system established by the San Joaquin County Board of Supervisors effective June 28, 1946, under the provisions of the CERL and the Public Employees' Pension Reform Act of 2013 (PEPRA). SJCERA is administered by the Board. Pursuant to Government Code Sections 31520.1 and 31520.5, the Board consists of nine regular members, one alternate retired member, and under certain circumstances an alternate Safety member. Four members and the alternate member(s) are elected by SJCERA's members, four are appointed by the County Board of Supervisors, and the County Treasurer is an ex-officio member. Board members serve for a term of three years, except for the County Treasurer who is a permanent member. The Board members as of December 31, 2022, were as follows:

| Michael Restuccia, Chair | Phonxay Keokham |
|---------------------------|-----------------|
| Michael Duffy, Vice Chair | Steve Moore |
| Raymond McCray, Secretary | Emily Nicholas |
| Chanda Bassett | Robert Rickman |
| Jennifer Goodman | J.C. Weydert |

SJCERA is a multiple-employer retirement system covering the County and the San Joaquin County (SJC) Historical Society and Museum, Local Agency Formation Commission (LAFCO), Lathrop-Manteca Rural Fire Protection District, San Joaquin County Law Library, SJC Mosquito and Vector Control District (MVCD), Mountain House Community Services District, SJC Superior Court, Tracy Public Cemetery District, and the Waterloo-Morada Rural Fire Protection District. All employees appointed to full-time, permanent positions with an SJCERA participating employer become SJCERA members. Persons who commence covered employment at age 60 or older may irrevocably elect to waive membership in SJCERA. Public Health, a division of the County's Healthcare Services Department, became a participant of SJCERA effective June 27, 1993. Prior to that date, they were members of the California Public Employees' Retirement System (CalPERS). The elected officials of the County may request to become members of SJCERA. All benefits vest after attaining five years of service credit.

Notes to the Financial Statements

SJCERA has two benefit tiers:

- Tier 1 Hired into public service before January 1, 2013.
- Tier 2 Hired into public service for the first time on or after January 1, 2013

There are two membership types:

- 1. **Safety Member** Permanent employees engaged in the performance of active law enforcement, including probation officers and fire suppression employees, are considered Safety Members and are not generally covered by Social Security.
- 2. **General Member** All other eligible employees not classified as Safety Members are considered General Members and are covered by Social Security.

MEMBERSHIP SUMMARY

| | RETIREES | | BENEFICIARIES | | ACTIVE | | DEFE | RRED | тот | FAL |
|---------|----------|--------|---------------|--------|--------|--------|--------|--------|--------|------------|
| | TIER 1 | TIER 2 | TIER 1 | TIER 2 | TIER 1 | TIER 2 | TIER 1 | TIER 2 | TIER 1 | TIER 2 |
| General | 4,721 | 88 | 705 | 2 | 2,012 | 3,542 | 1,181 | 1,239 | 8,619 | 4,871 |
| Safety | 935 | 8 | 226 | - | 423 | 404 | 163 | 78 | 1,747 | 490 |
| TOTAL | 5,656 | 96 | 931 | 2 | 2,435 | 3,946 | 1,344 | 1,317 | 10,366 | 5,361 |

SJCERA's membership as of December 31, 2022, is presented below:

B. PLAN BENEFITS

ELIGIBILITY FOR RETIREMENT

<u>TIER 1:</u>

A Tier 1 member may retire for service at age 50 or older with five years of service credit, and at least ten years of membership. A General, Tier 1 member may retire at any age with 30 or more years of service credit. A Safety, Tier 1 member may retire at any age with 20 or more years of service credit.

<u>TIER 2:</u>

A Tier 2 member may retire for service with five or more years of service credit upon attaining the minimum retirement age: Age 52 for General, Tier 2 members, and Age 50 for Safety, Tier 2 members.

Any member of SJCERA, regardless of benefit tier, may retire at age 70 with no minimum service credit requirement.

RETIREMENT BENEFIT

The monthly benefit amount at retirement depends upon the type of membership, years of retirement service credit, final average compensation, age at retirement, and the benefit option elected by the member.

<u>TIER 1:</u>

For Tier 1 members, final average compensation for purposes of computing a retirement allowance is the average monthly salary for the highest twelve consecutive months of employment. In addition to base salary, final average compensation may include other items defined as compensation earnable for retirement purposes.

The benefit formula for General, Tier 1 members is 2.6 percent of final average compensation for each year of service credit at age 62. The formula for Safety, Tier 1 members is 3.0 percent of final average compensation for each year of service credit at age 50 effective January 1, 2001. Members who retired prior to April 1, 1982, with 15 years or more of County service, receive an additional \$50 monthly supplement commencing at age 65. Members who retired on or after April 1, 1982, but before January 1, 2001, receive a supplemental monthly benefit of \$10 per year of service up to 30 years. This "Post 1982" supplemental benefit is payable if sufficient funds exist.

Federal law limits the annual compensation that may be used to calculate retirement benefits (applicable to persons who became SJCERA members on or after January 1, 1996), and the maximum annual benefit payable by SJCERA to any retired member. For 2022, the annual compensation limit under Internal Revenue Code Section 401(a)(17) is \$305,000 and the annual benefit limit under Internal Revenue Code Section 415(b) is \$245,000. Retired members whose statutory benefits from SJCERA would exceed the annual benefit limitation are eligible for the County's Replacement Benefit Plan.

<u>TIER 2:</u>

For Tier 2 members, final average compensation for purposes of computing a retirement allowance is the average monthly salary for the highest 36 consecutive months of employment. In addition to base salary, final average compensation may include other items defined as pensionable compensation.

The benefit formula for General, Tier 2 members is 2.5 percent of final compensation for each year of service credit at age 67. The formula for Safety, Tier 2 members is 2.7 percent of final compensation for each year of service credit at age 57. PEPRA specifies the maximum annual compensation that may be used to calculate retirement benefits. The limits are adjusted annually based on changes in the Consumer Price Index (CPI). For 2022, the Tier 2 annual compensation limit is \$134,974 for those included in the Federal Social Security System and \$161,969 for those not included.

COST-OF-LIVING ADJUSTMENT (COLA)

For both Tier 1 and Tier 2 members, monthly allowances are eligible for an annual COLA based on the change in the CPI for the San Francisco-Oakland-Hayward area for the previous calendar year, up to a maximum of 3.0 percent. The Bureau of Labor Statistics does not publish a CPI for San Joaquin County. When the CPI exceeds 3.0 percent in any year, the difference between the actual change in CPI (rounded to the nearest one-half percent)

Notes to the Financial Statements

and the 3.0 percent ceiling is "accumulated" for future years when the change is less than 3.0 percent. Based on the accumulated carry-over balances as of April 1, 2021, members who retired prior to April 2, 1986, received a 3.0% increase on April 1, 2022. Their accumulated carry-over balances were reduced by 1.5%. Members who retired on or after April 2, 1986, received a 3.0% increase on April 1, 2022. Their accumulated carry-over balances were reduced by 1.5%.

TERMINATED MEMBERS' DEFERRED RETIREMENT BENEFIT AND WITHDRAWAL OF CONTRIBUTIONS

A member leaving employment with at least five years of service credit becomes eligible for a retirement benefit once they meet the minimum service retirement age and have not withdrawn their accumulated member contributions.

Members who terminate employment with fewer than five years of service credit may leave their accumulated contributions on deposit until they become eligible for a retirement benefit at age 70. Contributions left on deposit with SJCERA continue to accrue interest.

Upon termination of employment, members may withdraw their member contributions plus interest. Employer-paid contributions are not refundable. Members who take a refund of contributions become ineligible for future SJCERA retirement benefits.

DEATH BENEFITS

The beneficiary of an actively employed member who dies prior to attaining five years of credited service is refunded the member's accumulated contributions, with interest, and receives one month's salary for each full year of service, up to a maximum of six months' salary.

If the death occurs after five years of credited service and is not the result of a service-related injury or disease, the surviving spouse or minor children may elect to receive a lump sum benefit of the retirement contributions including interest and one month's salary for each full year of service up to six months' salary; 60 percent of the retirement allowance the deceased member would have received if they had retired with a nonservice-connected disability retirement benefit on the date of death; or a lump sum payment of six months' salary and a reduced monthly retirement benefit. The monthly allowance to minor children is discontinued once they marry or reach age 18 (age 22 if a full-time student).

The beneficiary of a deferred member receives the member's contributions plus accumulated interest.

Upon the death of a retiree, the beneficiary receives a retirement benefit as determined by the benefit option elected by the member at the time of retirement. In addition, the beneficiary also receives a \$5,000 death benefit, which is paid from retirement reserves.

Notes to the Financial Statements

NOTE 2 – POST-EMPLOYMENT HEALTHCARE CUSTODIAL FUND

The Post-Employment Healthcare Custodial Fund accounts for assets held as an agent on behalf of others. The funds held within the Post-Employment Healthcare Custodial Fund do not meet the definition of a qualifying Other Post-Employment Benefits (OPEB) Trust under Governmental Accounting Standards Board (GASB) Statement No. 74. This fund is custodial in nature and does not measure the results of operations. GASB Statement No. 84, Fiduciary Activities, was implemented in 2019. The Post-Employment Healthcare Fund is classified as a Custodial Fund.

The Post-Employment Healthcare Custodial Fund is used as a clearing account for cash flows from employers to fund Sick Leave Bank Benefits for their eligible retired members on a pay-as-you-go basis, and for cash flows out for payment of Sick Leave Bank Benefits. The Sick Leave Bank Benefit allows accumulated unused and un-cashed sick leave to be converted to a Sick Leave Bank upon retirement at a rate of \$27.65 per hour. Retired or deferred members who were employed prior to August 27, 2001, are eligible for Sick Leave Bank Benefits. In 2007, the San Joaquin County Superior Court (Court) extended eligibility for Sick Leave Bank Benefits to Court employees hired on or after August 27, 2001. Employers fund the Sick Leave Bank Benefits and employees are not required to contribute to the plan.

Sick Leave Bank Benefits may be used to pay for employer-sponsored group health, dental, and vision care insurance premiums and/or reimbursement of Medicare Part B premiums for the eligible members, their spouses, and dependents. When a retiree's Sick Leave Bank is depleted, the retiree assumes responsibility for payment of health, dental, and vision care insurance premiums.

SJCERA allocates the investments held at December 31, 2022, between the Defined Benefit Pension Plan and the Post-Employment Healthcare Custodial Fund based on the internal records of the respective accounts at December 31, 2022.

NOTE 3 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES – PENSION PLAN

A. BASIS OF ACCOUNTING

SJCERA's financial statements are presented on the accrual basis of accounting. Employer and member contributions that should have been made in the calendar year based on the actuarially determined contribution rates or amounts are recognized as revenues of that calendar year. Contributions receivable pursuant to an installment contract are also recognized in full in the year in which the contract is made. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.

B. REPORTING ENTITY

SJCERA, governed by the Board, is an independent government entity. SJCERA's annual financial statements are included in the County's financial reports as a pension trust fund.

Notes to the Financial Statements

C. CASH EQUIVALENTS

SJCERA's cash and short-term investments are managed by The Northern Trust Company (NT) and the County Treasurer.

THE NORTHERN TRUST COMPANY

Cash not required for daily operations is deposited with NT, SJCERA's master custodian for investment securities. NT pools cash from its clients pending permanent investment in its Short-Term Investment Fund (STIF). The cash in the STIF account is invested in high-grade money market instruments with very short maturities, such as bonds, notes, and other evidence of indebtedness, in accordance with SJCERA's investment policy.

The cash collateral received under the securities lending program is invested by NT through its securities lending collateral fund, which is created solely for the investment of cash collateral.

COUNTY TREASURER

Cash necessary for SJCERA's daily operations is pooled with other County funds for short-term investment by the County Treasurer. The County is responsible for the control and safekeeping of all instruments of title and for all investment of the pooled funds.

D. METHOD USED TO VALUE INVESTMENTS

Investments are carried at fair value. Fair values for investments are derived by various methods as indicated in the following table.

| INVESTMENTS | SOURCE |
|--|---|
| Publicly traded stocks and bonds, and issues of the U.S. Government and its agencies | Most recent sales price as of the fiscal year-end. International securities reflect currency exchange rates in effect at December 31, 2022. |
| Mortgages | Equivalent pricing to comparable Government National Mortgage Association (GNMA). |
| Real estate equity funds | Fair value as provided by real estate fund manager. |
| Real estate title holding corporations and limited liability companies | Fair value of the investment as provided by fund managers, unless an alternative value has been determined by the Board per SJCERA's Real Estate Investment Policy and reviewed by SJCERA's Investment Consultant. |
| Private equity | Fair value as provided by the investment manager and reviewed by SJCERA's Investment Consultant. |
| Private placement bonds | Face value of the security subject to designated conditions such as sales restrictions or limited marketability. |

Notes to the Financial Statements

E. CAPITAL ASSETS

Capital assets, mainly leasehold improvements, furniture, and equipment, acquired by SJCERA are capitalized at cost. Depreciable capital assets are depreciated using the straight-line method over estimated useful lives of three to seven years for computer equipment, furniture, and other equipment. Leasehold improvements are amortized over the life of the lease. Depreciation expenses of the capital assets are included in general administrative expenses.

The change in capital assets owned for the year ended December 31, 2022, is presented below.

| | ANCE ER 1, 2021 | ADDITIONS | DELETIONS | DE | BALANCE CEMBER 31, 2022 |
|--|--------------------|-----------------|-----------------|----|----------------------------|
| Original Cost | \$ 1,684,360 | \$ 3,236,903 | \$ (312,231) | \$ | 4,609,032 |
| Accumulated Depreciation and Amortization | (1,530,316) | (247,562) | 312,231 | | (1,465,647) |
| NET BOOK VALUE | \$ 154,044 | \$ 2,989,341 | \$ - | \$ | 3,143,385 |

Depreciation and amortization expense for the year ended December 31, 2022, was \$247,562.

F. RECEIVABLES

Receivables consist primarily of interest, dividends, investments in transition (traded but not yet settled), and contributions owed by participating employers. Contributions receivable pursuant to an installment contract between the member and SJCERA for purchase of service credit are recognized in full in the year in which the contract is made.

G. USE OF ESTIMATES IN THE PREPARATION OF FINANCIAL STATEMENTS

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make certain estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

Notes to the Financial Statements

NOTE 4 – CASH AND INVESTMENTS

A. INVESTMENT IN SECURITIES LENDING PROGRAM

SJCERA participates in NT's pooled securities lending program. Under the agreement, NT is authorized to lend the SJCERA securities that it holds to certain SJCERA-approved borrowers. NT does not have the ability to pledge or sell collateral securities unless a borrower default occurs.

All loans are fully collateralized with either cash, securities issued or fully guaranteed by the U.S. government, or irrevocable bank letters of credit. All collateral is held or invested by NT. The term or maturity of the securities loaned is generally matched with the term or maturity of the investment of the cash collateral. U.S. securities are loaned with collateral valued at 102 percent of the fair value of the securities plus any accrued interest. Non-U.S. securities are loaned with collateral valued at 105 percent of the fair value of the securities plus any accrued interest.

| | OF | FAIR VALUE SECURITIES LENT | С | CASH OLLATERAL VALUE | СС | NON-CASH DLLATERAL VALUE |
|---------------------------|----|-------------------------------|----|-------------------------|----|-----------------------------|
| U.S. Equities | \$ | 12,182,740 | \$ | 11,552,530 | \$ | 971,748 |
| U.S. Debt Securities | | 128,248,922 | | 113,015,222 | | 18,400,670 |
| TOTAL U.S. SECURITIES | \$ | 140,431,662 | \$ | 124,567,752 | \$ | 19,372,418 |
| Non-U.S. Equities | \$ | 3,492,308 | | - | \$ | 3,727,736 |
| Non-U.S. Debt Securities | | 38,472,805 | | 996,852 | | 39,845,486 |
| TOTAL NON-U.S. SECURITIES | \$ | 41,965,113 | | 996,852 | \$ | 43,573,222 |
| TOTAL | \$ | 182,396,775 | \$ | 125,564,604 | \$ | 62,945,640 |

As of December 31, 2022, SJCERA had the following securities out on loan.

The cash collateral is reported on the financial statements as an asset and as a liability of SJCERA. Securities lending transactions collateralized by letters of credit or by securities that SJCERA does not have the ability to pledge or sell unless the borrower defaults are not be reported as assets and liabilities in accordance with GASB Statement No. 28. The potential risks involved in the securities lending program include borrower bankruptcy, collateral deficiencies, settlement problems, corporate actions, dividends, and interest. SJCERA's pro-rata share of net income derived from NT's pooled securities lending transactions in 2022 was \$351,039. As of December 31, 2022, there was no credit risk exposure to borrowers because the collateral exceeded the amount borrowed. The securities on loan at year-end were \$182 million and the collateral received for those securities on loan was \$188 million.

Notes to the Financial Statements

B. CASH AND SHORT-TERM INVESTMENTS

The carrying value of cash and short-term investments as of December 31, 2022, consists of the following.

| | AMOUNT |
|--|-------------------|
| Cash and Cash Equivalents – Custodian | \$ 141,361,593 |
| Cash and Cash Equivalents – County Treasury | 42,386 |
| TOTAL CASH AND CASH EQUIVALENTS | \$ 141,403,979 |
| Cash Collateral – Securities Lending – Custodian | 125,564,604 |
| TOTAL CASH AND SHORT-TERM INVESTMENTS | \$ 266,968,583 |

C. LONG-TERM INVESTMENTS

SJCERA owned the following long-term investments as of December 31, 2022.

| | FAIR VALUE |
|---|------------------|
| INVESTMENTS – CATEGORIZED | |
| Aggressive Growth | \$ 358,058,142 |
| Traditional Growth | 1,316,293,371 |
| Risk Parity | 358,053,342 |
| Credit | 579,784,841 |
| Crisis Risk Offset (CRO) | 531,550,354 |
| Principal Protection | 278,165,455 |
| Core Real Assets | 238,796,399 |
| TOTAL INVESTMENTS - CATEGORIZED | \$ 3,660,701,904 |
| INVESTMENTS – NOT CATEGORIZED | |
| Investments Held by Broker-Dealers Under Securities Loans | |
| U.S. Equities | \$ 11,552,530 |
| U.S. Debt Securities | 113,015,222 |
| Non-U.S. Debt Securities | 996,852 |
| TOTAL INVESTMENTS HELD BY BROKER-DEALERS UNDER SECURITIES LOANS | \$ 125,564,604 |
| TOTAL INVESTMENTS | \$ 3,786,266,508 |

GASB Statement No. 40, *Deposits and Investments Risk Disclosures*, establishes and modified disclosure requirements related to the following:

- Credit risk
- Custodial credit risk
- Concentration of credit risk
- Interest rate risk
- Foreign currency risk

Notes to the Financial Statements

CREDIT RISK

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. SJCERA's investment policy seeks to maintain a diversified portfolio of fixed income instruments in order to obtain the highest total return for the fund at an acceptable level of risk within the asset class. To control such risk, credit quality guidelines have been established for the separately managed accounts. The following table depicts the value of the investments exposed to those risks and the corresponding credit ratings from Standard & Poor's (S&P) as of December 31, 2022.

| QUALITY RATINGS | FAIR VALUE |
|---|----------------|
| AAA | \$ 140,933,748 |
| AA | 5,722,873 |
| Α | 25,981,796 |
| BAA | 80,431,953 |
| ВА | 20,326,384 |
| В | 17,924,561 |
| САА | 3,721,386 |
| CA | 102,384 |
| С | 83,750 |
| Not Rated | 371,477,256 |
| SUBTOTAL | \$ 666,706,091 |
| U.S. Government Agencies - Implied AAA (FNMA, FHLB, FHLMC, FFCB, SLMA, Other) | 191,244,205 |
| TOTAL INVESTMENTS IN FIXED INCOME SECURITIES | \$ 857,950,296 |

CUSTODIAL CREDIT RISK

The custodial credit risk represents the risk that, in the event of the failure of the counterparty of a transaction, SJCERA will not be able to recover the value of deposits and investments or collateral securities that are in the possession of an outside party.

DEPOSITS

The deposits with the County Treasurer are uninsured but secured by public funds of the pledging banks. The pool's investments, all held in the County's name, are short-termand include U.S. Treasury Bills, certain Federal agencies' instruments, bankers' acceptances, "prime" commercial paper, certificates of deposit, repurchase agreements, and the State Treasurer's Local Agency Investment Fund.

The cash deposits with NT are uninsured and uncollateralized. All underlying investments in the commingled STIF account are not registered in SJCERA's name.

INVESTMENTS

Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in SJCERA's name, and held by the counterparty. SJCERA's investment securities are not exposed to custodial credit risk because all securities are held by SJCERA's custodial bank in SJCERA's name, or by other qualified third party administrator trust accounts.

CONCENTRATION OF CREDIT RISK

This risk represents the potential loss attributable to the magnitude of SJCERA's investments in a single issuer. As of December 31, 2022, for separately managed investment accounts, SJCERA did not hold any investments within any one issuer that would represent five percent (5%) or more of plan fiduciary net position.

INTEREST RATE RISK

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Duration is a measure of the price sensitivity of a fixed income portfolio to changes in interest rates. It is calculated as the weighted average time to receive a bond's coupon and principal payments. The longer the duration of a portfolio, the greater its price sensitivity to changes in interest rates.

| INVESTMENT TYPE | FAIR VALUE | WEIGHTED AVERAGE MATURITY – YEARS | | | | | | | |
|--|----------------|--------------------------------------|--|--|--|--|--|--|--|
| U.S. GOVERNMENT AND AGENCY INSTRUMENTS | | | | | | | | | |
| U.S. Government Mortgages | \$ 77,935,270 | 28.69 | | | | | | | |
| U.S. Government Bonds | 146,584,754 | 18.00 | | | | | | | |
| Municipal / Revenue Bonds | 2,603,787 | 15.72 | | | | | | | |
| Government Agencies | 6,061,529 | 17.48 | | | | | | | |
| Short-Term Bills and Notes | 97,491,962 | 0.36 | | | | | | | |
| TOTAL U.S. GOVERNMENT AND AGENCY INSTRUMENTS | \$ 330,677,302 | | | | | | | | |
| CORPORATE SECURITIES | | - | | | | | | | |
| Asset Backed Securities | \$ 21,111,448 | 16.60 | | | | | | | |
| Commercial Mortgage-Backed Securities | 10,416,439 | 13.25 | | | | | | | |
| Corporate Bonds | 141,938,305 | 11.89 | | | | | | | |
| Corporate Convertible Bonds | 1,676,156 | 31.63 | | | | | | | |
| Non-Government Backed CMOs | 419,115 | 23.53 | | | | | | | |
| TOTAL CORPORATE SECURITIES | \$ 175,561,463 | | | | | | | | |
| REAL ESTATE FINANCING | 351,711,531 | | | | | | | | |
| TOTAL FIXED INCOME SECURITIES | \$ 857,950,296 | | | | | | | | |

As of December 31, 2022, SJCERA had the following interest rate sensitive investments.

FOREIGN CURRENCY RISK

Foreign currency risk is the risk that changes in exchange rates may adversely affect the fair value of an investment. SJCERA's external non-U.S. equity and fixed income investment managers may invest in international securities in accordance with their investment guidelines pertaining to these types of investments.

Notes to the Financial Statements

Currency hedging on an unleveraged basis is permitted by non-U.S. equity managers as a strategy to protect against losses due to currency translations (defensive hedging). However, it is expected that the primary sources of added value for non-U.S. equity investment managers will be stock and country selection, with currency management focused on limiting losses due to fluctuations in currency values. Managers may purchase or sell currency on a spot basis to accommodate securities settlements.

Managers may invest in developed market currencies and emerging market currencies in accordance with their investment guidelines. Permitted derivative instruments are currency spots, currency forward contracts (deliverable or non-deliverable), currency futures, options on currency forwards or futures, and currency swaps. Other investments, contracts, or positions that, in the managers' judgment, are of similar purpose and character and equal credit quality and marketability to any of the investments above, are also permissible.

SJCERA's exposure to foreign currency risk in U.S. dollars as of December 31, 2022, follows.

| CURRENCY | | FAIR VALUE | | |
|------------------------|----|------------|--|--|
| British Pound Sterling | \$ | 3 | | |
| Canadian Dollar | | 971,963 | | |
| Euro Currency | | 91,447 | | |
| TOTAL | \$ | 1,063,413 | | |

D. FAIR VALUE MEASUREMENT

In accordance with GASB Statement No. 72, fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The statement establishes a fair value hierarchy based on three types of input to develop the fair value measurements for investments. The level is determined based on the lowest level of input significant to the measurement in its entirety.Assets and liabilities measured at fair value are classified into one of the following categories:

FAIR VALUE HIERARCHY

Level 1 – reflects unadjusted quoted prices in active markets for identical assets or liabilities accessible on the measurement date. Observable markets include exchange markets, dealer markets, and brokered markets.

Level 2 – reflects similar observable inputs other than quoted market prices. It includes quoted prices for similar assets in active markets or quoted prices for identical or similar assets in inactive markets.

Level 3 – reflects prices based on unobservable sources. They should be used only when relevant Level 1 and Level 2 inputs are unavailable.

Notes to the Financial Statements

The following table presents fair value measurements as of December 31, 2022.

| INVESTMENTS BY FAIR VALUE LEVEL | тот | AL FAIR VALUE | | UOTED PRICES IN ACTIVE MARKETS FOR IDENTICAL ASSETS (LEVEL 1) | | SIGNIFICANT OTHER DBSERVABLE INPUTS (LEVEL 2) | | IGNIFICANT OBSERVABLE INPUTS (LEVEL 3) |
|---------------------------------------|----------|---------------|----|--|----|---|----------|---|
| EQUITIES | | | | | | | | |
| Common Stocks | \$ | 41,513,032 | \$ | 41,487,844 | \$ | 5,844 | Ś | 19,344 |
| Preferred Stocks | • | 718,520 | Ť | 718,520 | • | - | • | |
| TOTAL EQUITIES | \$ | 42,231,552 | \$ | 42,206,364 | \$ | 5,844 | \$ | 19,344 |
| FIXED INCOME | | | | | | | | |
| Asset Backed Securities | \$ | 21,111,448 | | - | \$ | 21,111,448 | | - |
| Commercial Mortgage-Backed Securities | | 10,416,439 | | - | | 10,416,439 | | - |
| Corporate Bonds | | 141,938,305 | | - | | 141,938,305 | | - |
| Corporate Convertible Bonds | | 1,676,156 | | - | | 1,676,156 | | - |
| Funds – Corporate Bonds | | 59,719,042 | | 43,102,549 | | 16,616,493 | | - |
| Funds – Fixed Income ETF | | 15,618,650 | | 15,618,650 | | - | | - |
| Government Agencies | | 6,061,529 | | - | | 6,061,529 | | - |
| Government Bonds | | 146,584,754 | | - | | 146,584,754 | | - |
| Government Mortgage-Backed Securities | | 77,935,270 | | - | | 77,935,270 | | - |
| Municipal/Provincial Bonds | | 2,603,787 | | - | | 2,603,787 | | - |
| Non-Government Backed CMOs | | 419,115 | | - | | 419,115 | | - |
| Other Fixed Income | | 90,176,224 | | - | | - | | 90,176,224 |
| TOTAL FIXED INCOME | \$ | 574,260,719 | \$ | 58,721,199 | \$ | 425,363,296 | \$ | 90,176,224 |
| OTHER ASSETS | | | | | | | | |
| Short-Term Bills and Notes | \$ | 99,986,745 | \$ | 1,316,938 | \$ | 98,669,807 | | - |
| Option Contracts | | 914 | | - | | - | | 914 |
| Swaps | | 396,860 | | - | | 396,860 | | - |
| TOTAL OTHER ASSETS | \$ | 100,384,519 | \$ | 1,316,938 | \$ | 99,066,667 | \$ | 914 |
| Collateral from Securities Lending | | 125,564,604 | | - | | 125,564,604 | | - |
| TOTAL INVESTMENTS BY FAIR VALUE LEVEL | \$ | 842,441,394 | \$ | 102,244,501 | \$ | 650,000,411 | \$ | 90,196,482 |
| INVESTMENTS MEASURED AT THE NET ASSET | VA | LUE (NAV) | | | | | | |
| Global Equities Funds | \$ | 1,218,782,828 | | | | | | |
| Emerging Markets Global Equity | | 80,881,423 | | | | | | |
| Fixed Income Funds | | 145,812,348 | | | | | | |
| Private Credit | | 194,131,106 | | | | | | |
| Risk Parity Funds | | 358,053,342 | | | | | | |
| Multi-Strategy Funds | | 296,710,835 | | | | | | |
| Hedge Funds – Fixed Income | | 14,598,388 | | | | | | |
| Private Equity Funds | | 275,731,811 | | | | | | |
| Private Real Estate Funds | | 359,123,033 | | | | | | |
| TOTAL INVESTMENTS MEASURED AT NAV | \$ | 2,943,825,114 | | | | | | |
| TOTAL INVESTMENTS | \$ | 3,786,266,508 | | | | | | |

Notes to the Financial Statements

INVESTMENTS MEASURED AT NET ASSET VALUE (NAV)

SJCERA measures certain investments that do not have a readily determinable fair value, such as hedge funds, commingled funds, and private equity funds, using NAV as a practical expedient. The SJCERA investments valued at NAV are the majority holdings for SJCERA portfolio. The following table presents the unfunded commitments, redemption frequency (if currently eligible), and the redemption notice period for SJCERA investments measured at NAV.

| INVESTMENTS MEASURED AT NAV | FAIR VALUE | UNFUNDED COMMITMENT | REDEMPTION FREQUENCY IF CURRENTLY ELIGIBLE | REDEMPTION NOTICE PERIOD |
|--------------------------------------|------------------|------------------------|---|------------------------------|
| Global Equity Funds | \$ 1,218,782,828 | \$- | Daily, Weekly, Semi-Monthly, Monthly | 1-30 Days |
| Emerging Markets Global Equity | 80,881,423 | - | Weekly | T-4 Days |
| Fixed Income Funds | 145,812,348 | 26,079,466 | Daily, Not Eligible | 1 Day |
| Private Credit | 194,131,106 | 56,674,116 | Not Applicable | Not Applicable |
| Risk Parity Funds | 358,053,342 | - | Monthly | 5-15 Days |
| Multi-Strategy Funds | 296,710,835 | - | Daily, Weekly, Semi-Monthly, Monthly | 0-15 Days |
| Hedge Funds - Fixed Income | 14,598,388 | 12,717,985 | Daily, Quarterly, Not Eligible | 0-60 Days |
| Private Equity Funds | 273,731,811 | 44,990,608 | Not Eligible | Not Applicable |
| Private Real Estate Funds | 359,123,033 | 199,499,885 | Quarterly, Not Eligible | 5-90 Days, Not Applicable |
| TOTAL INVESTMENTS MEASURED AT NAV | \$ 2,943,825,114 | \$ 339,912,060 | | |

The following table presents the investments measured at NAV as December 31, 2022.

Global Equity Funds – Assets within these funds represent shares of ownership in U.S. and international corporations, including publicly traded common stocks, American and Global Depository Receipts, as well as Real Estate Investment Trusts (REITS).

Emerging Markets Global Equity – Assets within this segment represent a diversified portfolio seeking to identify growing countries and the companies that complement our core Equity holdings.

Fixed Income Funds – Funds within this segment represent debt instruments of corporations, government or agencies characterized by a fixed or variable interest rate and stated maturity date, including marketable bonds.

Private Credit – Assets within this segment are defined by non-bank lending where the debt is not issued or traded on the public markets.

Risk Parity Funds – Funds within this segment represent portfolios that seek to balance the risk characteristics of assets across multiple segments. These portfolios generally invest in equities, bonds and commodities among other assets.

Notes to the Financial Statements

Multi-Strategy Hedge Funds – Funds within this segment can involve holding both long and short positions in securities instead of traditional long-only investments in publicly traded investments. Portfolios also may utilize derivatives or hedging strategies as well. Multi-Strategy managers utilized various investment segments to invest, including but not limited to, equities, bonds, currency, and commodities.

Fixed Income Hedge Funds – Funds within this segment can involve holding both long and short positions in securities instead of traditional long-only investments in publicly traded investments. Portfolios also may utilize derivatives or hedging strategies as well. These investment funds generally focus on opportunities within fixed income markets.

Private Equity Funds – These funds are illiquid allocations that invest primarily in buyout funds, venture capital, and debt/special situations. These funds are not eligible for redemption and investment periods are generally between five and 15 years.

Private Real Estate Funds – These funds are defined as those investments that are unleveraged or leveraged positions in real property. The portfolio may pursue direct privately held partnership interests, fund-of-funds interests, and direct holdings for its real estate allocation.

E. SUMMARY OF INVESTMENT POLICY

The CERL vests the Board with exclusive control over SJCERA's investment portfolio. The Board established investment policies in accordance with applicable local, State, and Federal laws. The Board members exercise authority and control over the management of SJCERA's assets by setting policy, which the staff executes either internally or through the use of external prudent experts. The Board provides oversight and guidance subject to the following basic fiduciary responsibilities:

- Solely in the interest of, and for the exclusive purpose of, providing economic benefits to participants and their beneficiaries.
- With the care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with these matters would use in the conduct of an enterprise of a like character with like objectives.
- Diversify the investments of the plans so as to minimize the risk of loss and to maximize the rate of return, unless under the circumstances, it is clearly prudent not to do so. Diversification is applicable to the deployment of the assets as a whole.

F. TARGET ASSET ALLOCATION

The Board completed an asset-liability study during 2022, facilitated by its investment consultant, Meketa Investment Group, and its consulting actuary, Cheiron, Inc. A key aspect of the study was the Board's consensus on how it defines risk and determining its tolerance for risk, which plays a significant role in the selection of the policy mix of assets that comprise the strategic asset allocation for the investment program.

Notes to the Financial Statements

On June 30, 2022, the Board adopted a revised strategic asset allocation policy for SJCERA's investments. On July 8, 2022, the Board adopted an Implementation Plan which describes how the new strategic allocation is to be implemented. The Implementation Plan uses an "evolving policy" framework which allows the portfolio to be adjusted over time, with a target completion deadline of June 30, 2024. The plan also notes that SJCERA will move faster, depending on market conditions.

The strategic asset allocation is expected to improve the likelihood of the plan accomplishing its primary financial objective: to earn a long-term return that, coupled with projected contributions, is projected to be sufficient to attain full funding in the long-term while avoiding substantial deterioration in funded status along the way.

| SAN JOAQUIN COUNTY EMPLOYEES' RETIREMENT ASSOCIATION CURRENT ASSET ALLOCATION POLICY | | | | |
|---|---------------------------------|--|--|--|
| ASSET CLASS | POLICY ALLOCATION PERCENTAGE | PURPOSE | MAIN RISK EXPOSURES | |
| Aggressive Growth | 16.00% | Return | Growth | |
| Traditional Growth | 34.00% | Return | Growth, Currency | |
| Risk Parity | 6.00% | Balanced Return | Growth, Interest Rates, Inflatior | |
| Credit | 15.00% | Income, Growth | Growth | |
| Core Real Assets | 9.00% | Income, Growth | Growth, Interest Rates | |
| Principal Protection | 7.00% | Income, Stability | Interest Rates | |
| Crisis Risk Offset (CRO) | 13.00% | Return and Liquidity during a Growth Crisis | Interest Rates, Variable based on Trends, Alternative Factor Risks | |
| | 100.00% | | | |

NOTE 5 – DERIVATIVE FINANCIAL INSTRUMENTS

The Board has authorized certain investment managers to invest in, or otherwise enter into, transactions involving derivative financial instruments when such transactions are consistent with the investment objectives established for a specific investment manager's assignment. A professional investment consultant is employed to monitor and review each investment manager's securities and derivative position as well as the manager's performance relative to established benchmark rates of return and risk measures. Derivative activities must be evaluated within the context of the overall portfolio performance and cannot be evaluated in isolation.

Investment derivatives involve the following types of risks.

Market Risk: Market risk is the risk of change in value of an instrument in response to changes in a market price or index. While all investments are subject to market risk, derivatives often have a higher degree of market risk than other types of investment instruments. Values of cash securities containing derivative features are often more susceptible to market risk than other types of fixed income securities because the amounts and/or timing of their scheduled cash flows may fluctuate under changing

Notes to the Financial Statements

market conditions, according to their contractual terms. For other types of derivatives, amounts of contractual cash flows may be either positive or negative depending upon prevailing market conditions relative to the reference prices or rates, and thus the values of such instruments may be positive or negative, despite the fact that little or no cash is initially exchanged to enter into such contacts.

Credit Risk: Credit risk of cash securities containing derivative features is based upon the credit worthiness of the issuers of such securities. It includes the risk that counterparties to contracts will not perform and/or the public exchange will not meet its obligation to assume this counterparty risk. Exchange traded derivatives are generally considered to be of lower credit risk than over-the-counter derivatives due to the exchange's margin requirements. The derivative investments are exchange traded, and credit risk is limited to the clearing corporation. As of December 31, 2022, collateral for derivatives was \$8.4 million. This represents the maximum loss that would be recognized at the reporting date if all counterparties failed to perform as contracted.

Interest Rate Risk: Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Interest rate swaps are an example of an investment that has a fair value that is highly sensitive to interest rate changes. SJCERA is exposed to interest rate risk in the form of futures contracts and option contracts in the following global government bond markets.

| GLOBAL BONDS | FUTURES CONTRACTS | OPTION CONTRACTS |
|--------------------------|-------------------|------------------|
| Canadian Government Bond | \$ (29,971,960) | \$- |
| Long Gilt | (29,539,481) | - |
| Japanese Government Bond | (3,331,781) | - |
| Euro Bond | (30,294,661) | - |
| U.S. Ten Year Notes | 40,116,977 | - |
| British Pound Sterling | 42,241,625 | (467,138 |
| TOTAL | \$ (10,779,281) | \$ (467,138 |

Interest Rate Risk AS OF DECEMBER 31, 2022

Notes to the Financial Statements

SJCERA measures derivative interest rate risk using duration with varying maturities of less than three months to more than 10 years. At December 31, 2022, SJCERA had the following investment derivative interest rate risks.

Interest Rate Risk Analysis

AS OF DECEMBER 31, 2022 (Dollars in Thousands)

| DERIVATIVE TYPE | N | OTIONAL VALUE | FAIR VALUE | < 3 MONTHS | 3 TO 6 MONTHS | 6 TO 12 MONTH | | 1 TO 5 YEARS | 5 TO 10 YEARS | 10+ YEARS |
|-------------------|----|------------------|---------------|---------------|------------------|------------------|---|-----------------|------------------|--------------|
| Futures Contracts | \$ | (170,679) | \$- | \$ (170,679) | \$- | \$ | - | \$- | \$- | \$- |
| Swap Agreements | | - | 396 | - | - | | - | 396 | - | - |
| Credit Contracts | | - | - | - | - | | - | - | - | - |
| TOTAL | \$ | (170,679) | \$ 396 | \$ (170,679) | \$ - | \$ | - | \$ 396 | \$- | \$- |

Foreign Currency Risk: Foreign currency risk is the risk that changes in currency exchange rates will adversely affect the fair value of an investment. Currency forward contracts represent foreign exchange contracts that are used to control currency exposure and facilitate the settlement of international security purchase and sale transactions. As of December 31, 2022, SJCERA had the derivative foreign currency exposures listed in the table below.

Foreign Currency Risk Analysis

AS OF DECEMBER 31, 2022

| CURRENCY | FUTURES CONTRACTS | EQUITY CONTRACTS | OPTION CONTRACTS |
|------------------------|----------------------|---------------------|---------------------|
| Australian Dollar | \$ (19,802,650) | \$ - | \$- |
| British Pound Sterling | (19,787,550) | - | - |
| Canadian Dollar | (19,588,800) | 1,899,539 | - |
| Euro Currency | (18,281,800) | - | - |
| Japanese Yen | (20,712,563) | - | (205,150) |
| Swiss Franc | 16,353,000 | - | - |
| TOTAL | \$ (81,820,363) | \$ 1,899,539 | \$ (205,150) |

Derivatives are carried as assets when the fair value is positive, and as liabilities when the fair value is negative. Gains and losses from derivatives are included in net investment income (loss). For financial reporting purposes, all SJCERA derivatives are classified as investment derivatives.

Notes to the Financial Statements

Derivative financial instruments held by SJCERA from time to time consist of the following.

FUTURES CONTRACTS

A futures contract represents an agreement to buy (long position) or sell (short position) an underlying asset at a specified future date for a specified price. Payment for the transaction is delayed until a future date, which is referred to as the settlement or expiration date. Futures contracts are standardized contracts traded on organized exchanges.

OPTION CONTRACTS

An option contract is a type of derivative security in which a buyer (purchaser) has the right, but not the obligation, to buy or sell a specified amount of an underlying security at a fixed price by exercising the option before its expiration date. The seller (writer) has an obligation to buy or sell the underlying security if the buyer decides to exercise the option.

SWAP AGREEMENTS

A swap is an agreement between two or more parties to exchange a sequence of cash flows over a period of time in the future. No principal is exchanged at the beginning of the swap. The cash flows the counterparties exchange are tied to a "notional" amount. A swap agreement specifies the time period over which the periodic payments will be exchanged. The fair value represents the gains or losses as of the prior marking-to-market.

All investment derivative positions are included as part of investments at fair value on the Statement of Fiduciary Net Position. All changes in fair value are reported as part of net appreciation/(depreciation) in fair value of investments in the Statement of Changes in Fiduciary Net Position. Investment information was provided either by SJCERA's investment managers or SJCERA's custodian bank. The Investment Derivatives schedule below is classified by type and reports the fair value balances and notional amounts of derivatives outstanding as of and for the year ended December 31, 2022.

Investment Derivatives

AS OF DECEMBER 31, 2022

| DERIVATIVE TYPE | NOTIONAL AMOUNT | FAIR VALUE |
|-------------------|-----------------|---------------|
| Futures Contracts | \$ (81,269,014) | \$ 17,464,572 |
| Option Contracts | (4,587,401) | 3,101,628 |
| TOTAL | \$ (85,856,415) | \$ 20,566,200 |

Notes to the Financial Statements

NOTE 6 – CONTRIBUTIONS REQUIRED AND CONTRIBUTIONS MADE **DEFINED BENEFIT PENSION PLAN**

The funding objective of the plan is to establish contribution rates that, together with investment earnings, will provide sufficient assets to pay all benefits under the plan. The County and participating employers are required to contribute a percentage of their annual covered payroll at actuarially determined rates. Actuarial valuations involve estimates and make assumptions about the probability of events far into the future; therefore, actuarially determined rates are subject to continual revision as results are compared to past expectations and new estimates are made about the future.

EMPLOYER CONTRIBUTIONS

For 2022, the required employer contribution rates including normal cost and amortization of the unfunded actuarial liability (UAL) were determined by using the valuation report as of January 1, 2021.

In 2022, the County made additional \$22,088,131 contributions. The Court made additional \$500,000 contributions to decrease its share of the UAL. MVCD made additional \$90,000 contributions to decrease its share of the UAL. These additional annual contributions decrease only that individual employer's share of the UAL and not the liability for other entities participating in SJCERA.

The total market value of the additional contributions, including prior year amounts and accumulated with interest at the plan's actual rate of return, was \$184,202,499 as of December 31, 2022. These assets are included in the calculation of the UAL and funded ratio. However, under the funding policy with respect to these reserves requested by the contributors and approved by the Board, these assets are not currently included in the calculation of the employer contribution rates.

Notes to the Financial Statements

| Employer Retirement Contribution Rates EXPRESSED AS A PERCENTAGE OF ACTIVE MEMBER | (PE | 2022 (PER 1/1/2021 VALUATION) | | | |
|--|-------------|----------------------------------|--------|--|--|
| PAYROLL | NORMAL COST | UAL AMORTIZATION | TOTAL | | |
| TIER 1 | | | | | |
| For General Members | | | | | |
| Paying Basic Rate Only (G.C. 31621.3) | 19.82% | 30.60% | 50.42% | | |
| Paying Basic Rate with COLA Cost Share | 16.93% | 30.60% | 47.53% | | |
| Paying 114% of Basic Rate with COLA Cost Share | 16.37% | 30.60% | 46.97% | | |
| For Safety Members | | | | | |
| Paying Basic Rate Only (G.C. 31639.5) | 32.77% | 63.73% | 96.50% | | |
| Paying Basic Rate with COLA Cost Share | 27.69% | 63.73% | 91.42% | | |
| Paying 133% of Basic Rate with COLA Cost Share | 26.07% | 63.73% | 89.80% | | |
| Composite Total for General and Safety Combined | | | | | |
| Paying Basic Rate Only (G.C. 31621.3) | 22.35% | 36.98% | 59.33% | | |
| Paying Basic Rate with COLA Cost Share | 19.03% | 36.98% | 56.01% | | |
| Paying 114% / 133% of Basic Rate with COLA Cost Share | 18.26% | 36.98% | 55.24% | | |
| TIER 2 | | | | | |
| For General Members | 9.99% | 30.60% | 40.59% | | |
| For Safety Members | 15.42% | 63.73% | 79.15% | | |
| COMPOSITE TOTAL FOR GENERAL AND SAFETY COMBINED | 10.61% | 34.28% | 44.89% | | |

The composite employer contribution rates (for General and Safety Members combined) expressed as a percentage, or range of percentages, of covered payroll for the past seven years follows.

| CONTRIBUTION YEAR | TIER 1 | TIER 2 |
|-------------------|-----------------|--------|
| 2022 | 55.24% - 59.33% | 44.89% |
| 2021 | 53.88% - 57.96% | 43.69% |
| 2020 | 50.86% - 54.72% | 41.00% |
| 2019 | 48.09% - 51.81% | 38.60% |
| 2018 | 45.18% - 48.75% | 35.80% |
| 2017 | 44.31% - 47.91% | 34.48% |
| 2016 | 42.06% - 45.58% | 31.95% |

Notes to the Financial Statements

MEMBER CONTRIBUTIONS

Member contributions are deducted from the member's salary on a biweekly basis.

Tier 1 member contribution rates are calculated by the actuary using the Entry Age Normal Funding Method (Cost Method). Most Tier 1 members pay one-half of the cost of pre-funding post-retirement COLAs, and some pay an additional percentage of the basic member contribution rate, which reduces the employers' normal cost. Tier 2 members pay a single contribution rate adjusted annually. The required contribution rates are expressed as a percentage of covered payroll. The 2022 contribution rates were determined using the actuarial valuation performed as of January 1, 2021.

Tier 1 members pay contributions based upon their membership category, General or Safety, and age at entry into membership. General Tier 1 members employed before March 7, 1973, and all Safety Tier 1 members stop paying member contributions when they have 30 years of service, but continue to accrue retirement service credit for subsequent active employment subject to membership.

Tier 2 members pay contributions based upon their membership category equal to one-half of the normal cost of the applicable benefits.

In 2022, member contributions totaled \$47,405,308 and employer contributions totaled \$269,080,047. Member contributions increased by \$3.9 million, or 9.09 percent, over the prior year, and employer contributions decreased by \$37.6 million, or 12.26 percent, over the prior year.

NOTE 7 – FIDUCIARY NET POSITION RESTRICTED FOR PENSION BENEFITS

As required by the CERL and the Board's policy, the following reserves from Fiduciary Net Position Restricted for Pension Benefits must be established and used to account for the members', employers', and retirees' contributions. The Unappropriated Earnings Reserve was sufficient to fully credit all reserves interest earnings at the 7.00 percent assumption rate. In addition, there were excess earnings to fund the Contingency Reserve in 2022 in the amount of \$43,633,169.

A. ACTIVE AND DEFERRED MEMBERS' RESERVE

This reserve represents the cumulative contributions made by active members, net of refunds to the members, plus the investment earnings credited to the reserve at the assumption rates determined by the actuary.

B. EMPLOYER ADVANCE RESERVE

This reserve represents the cumulative contributions made by the County and participating employers. Interest earnings are credited semi-annually to the reserves at the assumption rate determined by the actuary if sufficient unappropriated earnings reserve funds exist.

C. COUNTY ADDITIONAL 5% CONTRIBUTIONS RESERVE

This reserve represents the additional contributions in excess of actuarially determined contributions paid by the County in order to decrease its share of the UAL.

D. MVCD ADDITIONAL CONTRIBUTIONS RESERVE

This reserve represents the additional contributions in excess of actuarially determined contributions paid by the MVCD in order to decrease its share of the UAL.

E. COURT ADDITIONAL CONTRIBUTION RESERVE

This reserve represents the additional contributions in excess of actuarially determined contributions paid by the Court in order to decrease its share of the UAL.

F. RETIRED MEMBERS' RESERVE

This reserve accounts for the unpaid retirees' pension benefits. Upon a member's retirement, the member's accumulated contributions are transferred from the Active and Deferred Members' Reserve account to the Retired Members' Annuity Reserve account. In addition, the actuarially determined amount of the member's vested interest is transferred from the Employer Advance Reserve account to the Retired Members' Pension Reserve account. The Retired Members' Reserve account at December 31, 2022, includes the authorized "Purchasing Power" benefit reserve and additional pension benefits specified in the pre-April 1, 1982 class-action lawsuit settlement agreement. These benefits are explained in Note 1b. In accordance with the Statement of Reserve Policy, the post-April 1, 1982 Settlement Reserve is a Special Reserve, which is not included in valuation assets.

G. CLASS ACTION SETTLEMENT - POST 4/1/82 RESERVE

The Class Action Settlement – Post 4/1/82 Reserve designates the fund that pays the Post-82 Class Action Settlement allowances for the lifetime of the members and beneficiaries, who retired between April 1, 1982, and December 31, 2000, to the extent sufficient funds are available.

H. CONTINGENCY RESERVE

Earnings of the retirement fund during any year in excess of the total interest credited to contributions and reserves during the year remain in the fund as a reserve against deficiencies in interest earnings in other years, losses on investments, and other contingencies. The CERL provides that when the contingency reserve exceeds one percent of total assets, the retirement board may transfer all or any part of the surplus as specified in Government Code Section 31592.2. In June 2017, the Board amended the Reserve Policy, lowering the Contingency Reserve target from three percent to one percent of total assets. The Contingency Reserve is 1.1 percent of the fair value of total assets at December 31, 2022.

Notes to the Financial Statements

I. MARKET STABILIZATION DESIGNATION RESERVE

This "designation" reserve is used to further minimize the impact of the fluctuations in the fair value of the investments owned by SJCERA. It represents the difference between the actuarial value of assets and the fair value of assets at year-end. It is the balance of deferred earnings and losses created by a five-year smoothing of actual gains and losses compared to the assumed investment rate of return.

J. UNAPPROPRIATED EARNINGS RESERVE

The Unappropriated Earnings Reserve (UER) is used to accumulate investment income earned by SJCERA, net of the investment expenses and SJCERA's administration cost. From this unappropriated earnings account, interest is credited to various reserve accounts. In addition, at the Board's discretion and subject to the settlement agreement in 2001, this account may also be used, from time to time, to stabilize the County's and the special districts' actuarially determined contributions, and to fund the market stabilization and contingency reserves accounts.

K. SUMMARY OF RESERVES

A summary of reserved and designated net position at December 31, 2022, follows.

| RESERVES | |
|---------------------------------------|------------------|
| Active and Deferred Members | \$ 490,248,004 |
| Employer Advance | 2,283,312,967 |
| County Additional 5% Contributions | 189,312,897 |
| MVCD Additional Contributions | 470,563 |
| Court Additional Contributions | 3,622,783 |
| Retired Members | 1,100,175,871 |
| Class Action Settlement – Post-4/1/82 | 80,451 |
| Contingency | 43,633,169 |
| Market Stabilization Designation | (310,649,354) |
| Unappropriated Earnings (Restricted) | 17,545,411 |
| TOTAL RESERVES | \$ 3,817,752,762 |

NOTE 8 – NET PENSION LIABILITY AND SIGNIFICANT ASSUMPTIONS

A. NET PENSION LIABILITY OF EMPLOYERS

SJCERA is a cost sharing, multiple-employer pension plan with a reporting date of December 31, 2022. Measurements as of the reporting date are based on the fair value of assets as of December 31, 2022, and the total pension liability as of the valuation date, January 1, 2022, projected to December 31, 2022. There were no significant events between the valuation date and the measurement date, so the updated procedures consisted of updated actuarial assumptions, plus the addition of service cost and interest cost offset by benefit payments.

Notes to the Financial Statements

The net pension liability was measured as of December 31, 2022, and determined based upon rolling forward the total pension liability from the actuarial valuation as of January 1, 2022. The net pension liability (i.e., the pension plan's liability determined in accordance with GASB Statement No. 67 less the fiduciary net position) is shown below.

Employers' Net Pension Liability (GASB Statement No. 67)

AS OF DECEMBER 31, 2022 (Dollars in Millions)

| Total Pension Liability | \$ 5,517 |
|--|-------------|
| Plan Fiduciary Net Position | 3,818 |
| Employers' Net Pension Liability | \$ 1,699 |
| Plan Fiduciary Net Position as a Percentage of the Total Pension Liability | 69.2% |

B. ACTUARIAL ASSUMPTIONS AND SIGNIFICANT ASSUMPTIONS

SJCERA retains an independent actuarial firm to conduct actuarial valuations of the pension plan, monitor SJCERA's funding status, and establish the contribution rate requirements for the pension plan. Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events into the future. Examples include assumptions about future employment, mortality, and cost trends. Actuarially determined amounts are subject to continual review or modification as actual results are compared with past expectations and new estimates are made about the future. Projections of benefits for financial reporting purposes are based on the plan and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce short-term volatility in accrued actuarial liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations. The total pension liability was determined by an actuarial valuation as of January 1, 2022, using the following actuarial assumptions applied to all prior periods included in the measurement in accordance with the requirements of GASB Statement No. 67.

In the January 1, 2022 actuarial valuation, the Entry Age Normal Funding Method (Cost Method) was used. The actuarial assumptions include a 6.75 percent investment rate of return, annual inflation rate of 2.75 percent per year, and projected salary increases at 3.00 percent per year for the year ended 2022. The actuarial value of the plan's assets was based on a five-year smoothing of actual versus expected returns.

In 2015, the SJCERA Board changed the funding policy to amortize any unexpected changes in the UAL over a period of 15 years as a level percent of pay, with new amortization layers each year. The 2008 Extraordinary Actuarial Loss, which is amortized over a closed 30-year period, has 17 years remaining. The remaining UAL as of December 31, 2013, which is amortized over a closed 19-year period, has 11 years remaining. The new additions to the UAL on and after January 1, 2014, are amortized over 15 years. The single amortization period for these streams of payments is 12 years as of January 1, 2022. The amortization period for each UAL layer will decrease each year.

Notes to the Financial Statements

The total pension liability for the pension plan was determined by an actuarial valuation as of January 1, 2022, and accepted actuarial procedures were applied to project the total pension liability to December 31, 2022. Key methods and assumptions used in the latest actuarial valuations as of January 1, 2022, follow.

Key methods and assumptions used in the latest actuarial valuation are presented below.

| Valuation Date | January 1, 2022 |
|-------------------------------|---|
| Actuarial Cost Method | Entry Age Normal |
| Amortization Method | Level Percentage of Payroll with Separate Amortization Periods for Extraordinary Actuarial Gains or Losses |
| Remaining Amortization Period | 2008 Extraordinary Actuarial Loss – 17 years Remaining UAL as of January 1, 2014 – 11 years Subsequent Unexpected Changes in UAL after January 1, 2014 – 15 years Single Equivalent Period as of January 1, 2022 – 12 years |
| Asset Valuation Method | Smoothed Actuarial Value (5 years): 80%–120% Asset Corridor |
| ACTUARIAL ASSUMPTIONS | · · · · · · · · · · · · · · · · · · · |
| Discount Rate | 6.75%, Net of Pension Plan Investment Expenses, Including Inflation |
| Projected Salary Increases | 3.00%, Plus Service-Based Rates |
| General Inflation Rate | 2.75% |
| Cost-of-Living Adjustments | 2.60% Per Year Assumed |
| Healthy Mortality | Mortality rates for General active members are based on the sex distinct 2021 CalPERS Pre-Retirement Non-Industrial Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020. |
| | Mortality rates for Safety active members are based on the sum of the rates from the 2021 CalPERS Industrial and Non-Industrial Mortality Table, with generational mortality improvements projected from 2017 using 80% of of Projection Scale MP-2020. 10% of Safety member active deaths are assumed to occur in the line of duty. |
| | Mortality rates for healthy General annuitants are based on the sex distinct 2021 CalPERS Healthy Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020, and a partial credibility adjustment of 1.05 for males and no adjustments for females. |
| | Mortality rates for Safety annuitants are based on the sex distinct 2021 CalPERS Healthy Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020, and a partial credibility adjustment of 1.05 for males and no adjustment for females. |
| Disabled Mortality | Mortality rates for General disabled annuitants are based on status. Rates for General disabled annuitants with a service-related disability are based on the sex distinct 2021 CalPERS Industrially Disabled Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020. Rates for General disabled annuitants with a non-service-related disability are based on the sex distinct 2021 CalPERS Non-Industrially Disabled Annuitant Mortality Table, with generational mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020. |
| | Mortality rates for Safety disabled annuitants are based on the sex distinct 2021 CalPERS Industrially Disabled Mortality Table, with generational mortality improvements projected from 2017 using Projection 80% of Scale MP-2020. |

Notes to the Financial Statements

C. FUNDED STATUS AND FUNDING PROGRESS

The annual actuarial valuation determines the progress made in accumulating sufficient assets to pay benefits when due. As of January 1, 2022, the pension plan's accrued actuarial liabilities were \$5.3 billion and the actuarial value of assets was \$4.2 billion, resulting in UAL of \$1.1 billion. The funded status (ratio) of actuarial value of assets over accrued actuarial liabilities was 78.0 percent.

As of the January 1, 2022 actuarial valuation, the funded status increased to 78.0 percent from 68.1 percent on a market value of assets basis. It increased to 72.4 percent from 67.0 percent on an actuarial value of assets. There were no assumption changes made as of January 1, 2022.

SJCERA's Funding Policy provides for regular employer and member contributions at actuarially determined rates, expressed as percentages of annual covered payroll. Contributions required and contributions made are explained in Note 6.

D. ASSET ALLOCATION POLICY AND EXPECTED LONG-TERM RATE OF RETURN BY ASSET CLASS

The allocation of investment assets within SJCERA's portfolio is approved by the Board. Plan assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the defined benefit pension plans. The long-term expected rate of return on defined benefit pension plan investment assets was determined using a building-block method in which best estimate ranges of expected future real rates of return 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 the target asset allocation percentage, adjusted for inflation. The following table displays the Board-approved asset allocation policy for 2022 and the long-term expected real rates of return.

| ASSET CLASS | TARGET ALLOCATION | ARITHMETIC LONG-TERM EXPECTED REAL RATE OF RETURN |
|--------------------------|-------------------|---|
| Aggressive Growth | 16.00% | 9.65% |
| Traditional Growth | 34.00% | 5.45% |
| Stabilized Growth | 30.00% | 3.75% |
| Principal Protection | 7.00% | -0.25% |
| Crisis Risk Offset (CRO) | 13.00% | 1.95% |
| Cash | 0.00% | -1.05% |
| TOTAL | 100.00% | |

Notes to the Financial Statements

E. DISCOUNT RATE

The discount rate used to measure the total pension liability was 6.75 percent as of December 31, 2022. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rates. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions that are intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, the fiduciary net position was projected to be available to make all projected future benefit payments for 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 as of December 31, 2022.

F. SENSITIVITY OF THE NET PENSION LIABILITY TO CHANGES IN THE DISCOUNT RATE

The table below presents the net pension liability of SJCERA as of December 31, 2022, calculated using the discount rate of 6.75 percent, as well as what SJCERA's net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate.

| | 1% DECREASE (5.75%)CURRENT DISCOUNT RATE (6.75%) | | 1% INCREASE (7.75%) | |
|---|--|----|------------------------|---------------------|
| Total Pension Liability | \$ 6,250,685,626 | \$ | 5,517,142,112 | \$ 4,912,397,383 |
| Pension Plan Fiduciary Net Position | 3,817,752,762 | | 3,817,752,762 | 3,817,752,762 |
| COLLECTIVE NET PENSION LIABILITY | \$ 2,432,932,864 | \$ | 1,669,389,350 | \$ 1,094,644,621 |
| Fiduciary Net Position as a Percentage of the Total Pension Liability | 61.1% | | 69.2% | 77.7% |

G. RATE OF RETURN

For the year ended December 31, 2022, the annual money-weighted rate of return on investments, net of investment expense, was -7.24 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

NOTE 9 – INVESTMENT EXPENSES

Investment expenses include fees paid for investment management services, investment consulting services, fund evaluation services, securities custodian services, and interest expense and other fees incurred in security lending transactions.

NOTE 10 – GENERAL ADMINISTRATIVE EXPENSES

General administrative expenses, including the depreciation and amortization of capital assets, are funded by investment income earnings and are limited, pursuant to Government Code Section 31580.2, to twenty-one-hundredths of one percent (0.21 percent) of SJCERA's accrued actuarial liability. The actual administration expense for the year ended December 31, 2022, was 0.09 percent of the accrued actuarial liability. SJCERA was in compliance with this requirement during 2022.

NOTE 11 – PENDING LITIGATION

SJCERA V. TRAVELERS

SJCERA sought coverage for its defense fees and costs incurred in the Allum Class Action ("Allum Litigation") under a fiduciary liability insurance policy issued by SJCERA's prior fiduciary insurance carrier, Travelers Casualty & Surety Company of America ("Travelers"). Travelers declined to provide a defense to SJCERA, and SJCERA filed a lawsuit in the United States District Court, Eastern District of California ("U.S.D.C.") that alleged both that Travelers breached the insurance contract and acted in bad faith by failing to defend it in the Allum Litigation. The Eastern District of California granted Travelers' Motion for Summary Judgment, ruling that the "prior and pending litigation" exclusion in the Travelers' policy precluded coverage. SJCERA timely filed an appeal with the Ninth Circuit Court of Appeal. The Ninth Circuit Court of Appeal reversed the U.S.D.C.'s decision and remanded the case to enter judgement for SJCERA. SJCERA has been reimbursed some, but not all, of its attorney's fees and costs incurred in the Allum Class Action from Travelers as a result of this decision, and the case is still pending.

NOTE 12 – COMMITMENTS AND CONTINGENCIES

SJCERA participates in certain investments that require commitments of a specified amount of capital up front that is then drawn down at a later time as the investment vehicle requires. The total unfunded capital commitment represents the amount of funds that SJCERA could potentially be required to contribute at a future date. SJCERA had unfunded capital commitments totaling \$339.9 million at December 31, 2022.

NOTE 13 – SUBSEQUENT EVENTS

SJCERA has evaluated subsequent events through May 25, 2023, the date on which the financial statements were available to be issued, noting no subsequent events.

Required Supplementary Information

Schedule of Changes in Net Pension Liability and Related Ratios FOR THE YEARS ENDED[•]

| | 2022 | 2021 | 2020 | 2019 | 2018 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total Pension Liability | | | | | |
| Service Cost | \$ 118,695,366 | \$ 116,888,677 | \$ 115,229,486 | \$ 110,608,926 | \$ 103,300,553 |
| Interest (Includes Interest on Service Cost) | 356,415,938 | 360,520,733 | 350,095,503 | 337,480,353 | 325,161,265 |
| Change of Benefit Terms | - | - | - | - | - |
| Differences Between Expected and Actual Experience | (37,863,999) | (17,017,994) | (58,571,957) | 4,950,114 | (49,383,683) |
| Changes of Assumptions | (58,741,183) | - | 135,011,307 | 16,016,526 | 81,854,664 |
| Benefit Payments, Including Refunds of Member Contributions | (279,363,795) | (265,965,599) | (251,551,677) | (236,350,072) | (221,443,668) |
| NET CHANGE IN TOTAL PENSION LIABILITY | 99,142,327 | 194,425,817 | 290,212,662 | 232,705,847 | 239,489,131 |
| TOTAL PENSION LIABILITY - BEGINNING | 5,417,999,785 | 5,223,573,968 | 4,933,361,306 | 4,700,655,459 | 4,461,166,328 |
| Total Pension Liability - Ending (A) | \$5,517,142,112 | \$5,417,999,785 | \$5,223,573,968 | \$4,933,361,306 | \$4,700,655,459 |
| Fiduciary Net Position | | | | | |
| Contributions – Employer | \$ 269,080,047 | \$ 306,662,635 | \$ 240,700,988 | \$ 225,528,756 | \$ 208,757,572 |
| Contributions – Member | 47,405,308 | 43,455,640 | 40,568,995 | 38,098,688 | 35,377,951 |
| Transfer Between Plans | 224,628 | 270,570 | 172,041 | 299,014 | 324,269 |
| Net Investment Income (Loss) | (412,759,726) | 572,291,948 | 276,996,530 | 380,674,528 | (56,397,598) |
| Benefit Payments, Including Refunds of Member Contributions | (279,363,795) | (265,965,599) | (251,551,677) | (236,350,072) | (221,443,668) |
| Administrative Expenses | (5,621,704) | (4,639,439) | (4,536,455) | (4,931,163) | (4,865,082) |
| NET CHANGE IN FIDUCIARY NET POSITION | (381,035,242) | 652,075,755 | 302,350,422 | 403,319,751 | (38,246,555) |
| FIDUCIARY NET POSITION - BEGINNING | 4,198,788,004 | 3,546,712,249 | 3,244,361,827 | 2,841,042,076 | 2,879,288,631 |
| FIDUCIARY NET POSITION – ENDING (B) | \$3,817,752,762 | \$4,198,788,004 | \$3,546,712,249 | \$3,244,361,827 | \$2,841,042,076 |
| NET PENSION LIABILITY (A)-(B) | \$1,699,389,350 | \$1,219,211,781 | \$1,676,861,719 | \$1,688,999,479 | \$1,859,613,383 |
| FIDUCIARY NET POSITION AS A PERCENTAGE OF THE TOTAL PENSION LIABILITY | 69.20% | 77.50% | 67.90% | 65.76% | 60.44% |
| COVERED PAYROLL** | \$ 484,055,752 | \$ 470,179,036 | \$ 460,456,931 | \$ 453,710,584 | \$ 436,763,447 |
| NET PENSION LIABILITY AS A PERCENTAGE OF COVERED PAYROLL | 351.07% | 259.31% | 364.17% | 372.26% | 425.77% |

* Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

"Covered Payroll reported by plan sponsors is the payroll on which contributions are based in accordance with GASB Statement No. 82.

Required Supplementary Information

Schedule of Changes in Net Pension Liability and Related Ratios FOR THE YEARS ENDED

| | 2017 | 2016 | 2015 | 2014 |
|---|-----------------|-----------------|-----------------|-----------------|
| Total Pension Liability | | | | |
| Service Cost | \$ 98,438,144 | \$ 92,857,369 | \$ 94,377,630 | \$ 90,429,416 |
| Interest (Includes Interest on Service Cost) | 308,566,601 | 295,197,992 | 280,581,484 | 266,668,435 |
| Change of Benefit Terms | - | - | - | - |
| Differences Between Expected and Actual Experience | 37,219,673 | (10,171,368) | (25,752,670) | - |
| Changes of Assumptions | - | 87,601,669 | - | - |
| Benefit Payments, Including Refunds of Employee Contributions | (205,406,970) | (194,719,177) | (181,468,913) | (165,870,971) |
| NET CHANGE IN TOTAL PENSION LIABILITY | 238,817,448 | 270,766,485 | 167,737,531 | 191,226,880 |
| TOTAL PENSION LIABILITY - BEGINNING | 4,222,348,880 | 3,951,582,395 | 3,783,844,864 | 3,592,617,984 |
| TOTAL PENSION LIABILITY – ENDING (A) | \$4,461,166,328 | \$4,222,348,880 | \$3,951,582,395 | \$3,783,844,864 |
| Fiduciary Net Position | | | | |
| Contributions – Employer | \$ 200,051,742 | \$ 159,122,523 | \$ 150,371,556 | \$ 136,686,133 |
| Contributions – Member | 33,634,906 | 30,117,408 | 29,026,901 | 27,367,908 |
| Transfer Between Plans | 364,714 | 293,779 | 378,969 | 19,968,779 |
| Net Investment Income (Loss) | 299,960,693 | 151,114,788 | (47,339,750) | 110,728,303 |
| Benefit Payments, Including Refunds of Member Contributions | (205,406,970) | (194,719,177) | (181,468,913) | (165,870,971) |
| Administrative Expenses | (4,118,578) | (4,369,744) | (4,075,745) | (4,042,986) |
| NET CHANGE IN FIDUCIARY NET POSITION | 324,486,507 | 141,559,577 | (53,106,982) | 124,837,166 |
| FIDUCIARY NET POSITION - BEGINNING | 2,554,802,124 | 2,413,242,547 | 2,466,349,529 | 2,341,512,363 |
| FIDUCIARY NET POSITION – ENDING (B) | \$2,879,288,631 | \$2,554,802,124 | \$2,413,242,547 | \$2,466,349,529 |
| NET PENSION LIABILITY (A)-(B) | \$1,581,877,697 | \$1,667,546,756 | \$1,538,339,848 | \$1,317,495,335 |
| FIDUCIARY NET POSITION AS A PERCENTAGE OF THE TOTAL PENSION LIABILITY | 64.54% | 60.51% | 61.07% | 65.18% |
| COVERED PAYROLL** | \$ 425,886,951 | \$ 392,227,314 | \$ 396,136,470 | \$ 376,030,944 |
| NET PENSION LIABILITY AS A PERCENTAGE OF COVERED PAYROLL | 371.43% | 425.15% | 388.34% | 350.37% |

* Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

" Covered Payroll reported by plan sponsors is the payroll on which contributions are based in accordance with GASB Statement No. 82.

Required Supplementary Information

Schedule of Contributions From the Employers And Other Contributing Sources – Defined Benefit Pension Plan FOR THE TEN YEARS ENDED DECEMBER 31

2022-2018

| | 202 | | 2021 | 2020 | 2019 | 2018 |
|--|-----------|--------|--------------------|--------------------|--------------------|--------------------|
| Actuarially Determined Contributions | \$ 245,96 | 57,122 | \$ 233,148,239 | \$ 218,611,737 | \$ 203,058,574 | \$ 188,322,653 |
| Contributions in Relation to the Actuarially Determined Contributions | \$ 269,08 | 30,047 | \$ 306,662,635 | \$ 240,700,988 | \$ 225,528,756 | \$ 208,757,572 |
| Contribution Deficiency / (Excess)** | \$ (23,1 | 2,925) | \$ (73,514,396) | \$ (22,089,251) | \$ (22,470,182) | \$ (20,434,919) |
| Covered Payroll* | \$ 484,0 | 55,752 | \$ 470,179,036 | \$ 460,456,931 | \$ 453,710,854 | \$ 436,763,447 |
| Contributions as a Percentage of Covered Payroll | 55.5 | 9% | 65.22% | 52.27% | 49.71% | 47.80% |

2017-2013

| | 2017 | 2016 | 2015 | 2014 | 2013 |
|---|-----------------|----------------|----------------|----------------|----------------|
| Actuarially Determined Contributions | \$ 179,824,882 | \$ 159,122,523 | \$ 150,371,556 | \$ 136,686,133 | \$ 119,494,319 |
| Contributions in Relation to the Actuarially Determined Contribution | \$ 200,051,742 | \$ 159,122,523 | \$ 150,371,556 | \$ 136,686,133 | \$ 119,494,319 |
| Contribution Deficiency / (Excess)** | \$ (20,226,860) | \$- | \$- | \$- | \$- |
| Covered Payroll* | \$ 425,886,951 | \$ 392,227,314 | \$ 396,136,470 | \$ 376,030,944 | \$ 362,650,568 |
| Contributions as a Percentage of Covered Payroll | 46.97% | 40.57% | 37.96% | 36.35% | 32.95% |

* Covered Payroll reported by plan sponsors for 2014 through 2022. Previous years' amounts are based on projected payroll from the actuarial valuation reports.

" The contributions in excess of Actuarially Determined Contributions are due to the County's, MVCD's, and the Court's additional contributions.

Required Supplementary Information

Schedule of Investment Returns FOR THE YEARS ENDED.

| | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
|---|--------|--------|-------|--------|--------|--------|-------|--------|-------|
| Annual Money-Weighted Rate of Return, Net of Investment Expense | -7.24% | 13.68% | 2.23% | 13.77% | -2.11% | 11.85% | 6.20% | -2.06% | 4.29% |

* Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested. It is calculated by finding the rate of return that will set the present values of all cash flows and terminal values equal to the value of the initial investment. The money-weighted rate of return is equivalent to the internal rate of return (IRR).

Time-weighted rate of return assumes that all cash distributions are reinvested in the portfolio and the exact same periods are used for comparisons. When calculating the time-weighted rate of return, the effect of varying cash inflows is eliminated by assuming a single investment at the beginning of a period and measuring the growth or loss of fair value to the end of that period.

Note to Required Supplementary Information

FOR THE YEAR ENDED DECEMBER 31, 2022

NOTE 1 – KEY METHODS AND ASSUMPTIONS USED TO DETERMINE CONTRIBUTION RATES

The following actuarial methods and assumptions were used for the year ended December 31, 2022, in the Schedule of Contributions from the Employers and Other Contributing Sources:

| Valuation Date | January 1, 2021 |
|-----------------------------------|---|
| Actuarial Cost Method | Entry Age Normal |
| Amortization Method | Level Percentage of Payroll with Separate Amortization Periods for Extraordinary Actuarial Gains or Losses. |
| Remaining Amortization Period | 2008 Extraordinary Actuarial Loss – 18 years Remaining UAL as of January 1, 2014 – 12 years Subsequent Unexpected Changes in UAL after January 1, 2014 – 15 years Single Equivalent Period as of January 1, 2019 – 14 years |
| Asset Valuation Method | Smoothed Actuarial Value (5 years) 80%–120% Asset Corridor |
| ACTUARIAL ASSUMPTIONS: | |
| Discount Rate | 7.00%, Net of Pension Plan Investment Expenses, Including Inflation |
| Projected Salary Increases | 3.00%, Plus Service-Based Rates |
| General Inflation Rate | 2.75% |
| Cost-of-Living Adjustments (COLA) | 2.60% Per Year Assumed |
| Healthy Mortality | Mortality rates for General active members are based on the sex distinct Public General 2010 Above-Median Income Mortality Table with generational mortality improvements projected from 2010 using Projection Scale MP-2018, and a partial credibility adjustment of 1.05 for females and no adjustment for males. |
| | Mortality rates for Safety active members are based on the sex distinct Public Safety 2010 Mortality Table, with generational mortality improvements projected from 2010 using Projection Scale MP-2018 and a partial credibility adjustment of 0.98 for males and 1.06 for females. 10% of Safety member active deaths are assumed to occur in the line of duty. |
| | Mortality rates for healthy General annuitants and General beneficiaries are based on the sex distinct Public General 2010 Above-Median Income Mortality Table, with generational mortality improvements projected from 2010 using Projection Scale MP-2018, and a partial credibility adjustment of 1.04 for females and no adjustment for males. |
| | Mortality rates for Safety annuitants and Safety beneficiaries are based on the sex distinct Public Safety 2010 Mortality Table, with generational mortality improvements projected from 2010 using Projection Scale MP- 2018, and a partial credibility adjustment of 1.02 for males and 1.05 for females. |
| Disabled Mortality | Mortality rates for General disabled annuitants are based on the sex distinct Public General Disabled Annuitant 2010 Mortality Table, with a generational mortality improvements projected from 2010 using Projection Scale MP-2018, with a partial credibility adjustment of 1.04 for males and 1.07 for females. Mortality rates for Safety disabled annuitants are based on the sex distinct Public Safety Disabled Annuitant 2010 Mortality Table, with generational mortality improvements projected from 2010 using Projection Scale MP-2018, with a partial credibility adjustment of 1.04 for males and 0.98 for females. |

A complete description of the methods and assumptions used to determine contribution rates for the year ending December 31, 2022, can be found in the January 1, 2021 actuarial valuation report.

Other Supplementary Information

Schedule of Administrative Expenses FOR THE YEAR ENDED DECEMBER 31

| | | 2022 |
|---|----|-----------|
| General Administrative Expenses (Expenses Subject to the Statutory Limit) | | |
| PERSONNEL SERVICES | | |
| Staff Salaries | \$ | 1,699,542 |
| Cafeteria Benefits | | 147,104 |
| Insurance | | 327,585 |
| Social Security | | 124,609 |
| Retirement | | 783,713 |
| TOTAL PERSONNEL SERVICES | \$ | 3,082,553 |
| PROFESSIONAL SERVICES | | |
| Professional and Specialized Services | \$ | 1,019,781 |
| Allocated Department Costs | | (5,022) |
| TOTAL PROFESSIONAL SERVICES | \$ | 1,014,759 |
| COMMUNICATIONS | | |
| Postage | \$ | 19,122 |
| Telephone | | 15,480 |
| Travel | | 50,087 |
| TOTAL COMMUNICATIONS | \$ | 84,689 |
| RENTALS / EQUIPMENT | | |
| Office Space and Equipment | \$ | 229,177 |
| TOTAL RENTALS/EQUIPMENT | \$ | 229,177 |
| MISCELLANEOUS | 1 | |
| Office Supplies / Expense | \$ | 43,121 |
| Subscriptions and Periodicals | | 8,338 |
| Memberships | | 8,052 |
| Maintenance | | 25,544 |
| Insurance | | 130,902 |
| TOTAL MISCELLANEOUS | \$ | 215,957 |
| TOTAL GENERAL ADMINISTRATIVE EXPENSES | \$ | 4,627,135 |
| Other Expenses (Expenses Not Subject to the Statutory Limit) | 1 | |
| Information Technology Expenses | \$ | 335,386 |
| Actuary Fees | | 167,671 |
| Fund Legal Fees | | 491,512 |
| TOTAL OTHER EXPENSES | \$ | 994,569 |
| TOTAL GENERAL ADMINISTRATIVE AND OTHER EXPENSES | \$ | 5,621,704 |

Other Supplementary Information

Schedule of Investment Expenses FOR THE YEAR ENDED DECEMBER 31, 2022

| | 2022 |
|--|------------------|
| Investment Management Fees | |
| Principal Protection | \$ 501,341 |
| Traditional Growth | 1,134,789 |
| Credit | 4,657,047 |
| Risk Parity | 1,520,367 |
| Aggressive Growth | 9,116,460 |
| Credit Risk Offset | 6,723,746 |
| Core Real Asset - Short-Term Investments / Cash / Cash Equivalents | 145,994 |
| TOTAL INVESTMENT MANAGEMENT FEES | \$ 23,799,744 |
| Other Investment Fees and Expenses | |
| Custodian Fees | \$ 89,840 |
| Investment Consultant Fees | 436,462 |
| Miscellaneous Investment Expense | 2,915,002 |
| TOTAL OTHER INVESTMENT FEES AND EXPENSES | \$ 3,441,304 |
| TOTAL INVESTMENT EXPENSE | \$ 27,241,048 |
| Securities Lending Fees | |
| Securities Lending Fees and Rebates | \$ 2,384,475 |
| TOTAL INVESTMENT FEES AND EXPENSES | \$ 29,625,523 |

Schedule of Payments to Consultants FOR THE YEAR ENDED DECEMBER 31

| | 2022 |
|----------------------------------|--------------|
| Nature of Service | |
| Actuarial-Retainer and Valuation | \$ 167,671 |
| Audit | 60,670 |
| Fund Legal Fees | 491,512 |
| Business Technology Services | 335,386 |
| TOTAL PAYMENTS TO CONSULTANTS | \$ 1,055,239 |

Other Information

Schedule of Cost Sharing Employer Allocations AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2022

| EMPLOYER | PROPORTIONATE SHARE 1 | NET PENSION LIABILITY ² |
|--|-----------------------|------------------------------------|
| County of San Joaquin | 92.7057% | \$ 1,575,431,289 |
| SJC Superior Court | 3.9165% | 66,556,399 |
| Lathrop-Manteca Rural Fire Protection District | 1.5248% | 25,912,372 |
| Waterloo-Morada Rural Fire Protection District | 0.6367% | 10,819,220 |
| Tracy Public Cemetery District | 0.0634% | 1,077,001 |
| SJC Mosquito and Vector Control District | 0.5329% | 9,055,877 |
| SJC Historical Society and Museum | 0.0576% | 978,575 |
| Mountain House Community Services District | 0.5398% | 9,172,487 |
| San Joaquin County Law Library | 0.0162% | 274,455 |
| Local Agency Formation Commission | 0.0066% | 111,675 |
| TOTAL | 100.0000% | \$ 1,699,389,350 |

¹ As SJCERA is a cost sharing multiple-employer pension plan, each employer participating in SJCERA must reflect a portion of the collective net pension liability and pension expense in their financial statements. The calculation for the proportionate share for each employer allocates net pension liability and pension expense based on each employer's share of the unfunded liability amortization payment. The proportionate shares are then adjusted to account for the additional contributions made by the County of San Joaquin, the SJC Mosquito and Vector Control District, and SJC Superior Court for the year ended December 31, 2022.

² Proportionate share of net pension liability is based on the actuarial valuation.

Other Information

| schedule of Employer Pension Amounts Allocated by Cost Sharing Plan OR THE YEAR ENDED DECEMBER 31, 2022 | |
|--|--|
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| sion An R 31, 202 | |
| /er Pen: DECEMBE | |
| Schedule of Employer Pension Amo FOR THE YEAR ENDED DECEMBER 31, 2022 | |
| i dule of HE YEAR | |
| Sche For T | |

| | NO | 890 | 982 | 890 | 211 | 152,050 | 988 | 286,357 | 155 | 75,453 | 37,541 | 517 |
|--------------------------------|---|--------------------------|-----------------------|---|--|--------------------------------------|--|---|--|--------------------------------------|---|-----------------|
| PENSION EXPENSE | TOTAL PENSION EXPENSE | \$ 217,049,890 | 9,555,982 | 3,856,890 | 1,776,211 | 152, | 1,286,988 | 286, | 1,572,155 | 75, | 37, | \$ 235,649,517 |
| | NET AMORTIZATION OF DEFERED AMOUNTS FROM CHANGES IN PROPORTIONAND PROPORTIONAND PROPORTIONATE SHARE OF SHARE OF | \$ (1,410,712) | 326,794 | 263,695 | 275,940 | 2,705 | 31,235 | 150,661 | 300,232 | 37,395 | 22,055 | ۰ دی |
| đ | PROPORTIONATE PROPORTIONATE PLAN PENSE EXPENSE | \$ 218,460,602 | 9,229,188 | 3,593,195 | 1,500,271 | 149,345 | 1,255,753 | 135,696 | 1,271,923 | 38,058 | 15,486 | \$ 235,649,517 |
| ESOURCES | TOTAL DEFERRED INFLOWS OF RESOURCES | \$ 64,836,618 | 5,145,858 | 3,654,655 | 1,634,893 | 252,401 | 870,848 | 99,122 | 1,012,683 | 72,191 | 5,583 | \$ 77,584,852 |
| DEFERRED INFLOWS OF RESOURCES | CHANGES IN PROPORTION AND DIFFERENCES DIFFERENCES CONTRIBUTIONS CONTRIBUTIONS PROPORTIONATE PROPORTIONATE SCPENSE | \$ 5,569,123 | 2,642,016 | 2,679,835 | 1,227,876 | 211,884 | 530,167 | 62,308 | 667,615 | 61,866 | 1,382 | \$ 13,654,072 |
| DEFERRED | DIFFERENCES BETWEEN EXPECTED AND EXPECTED AND EXPERIENCE EXPERIENCE | \$ 59,267,495 | 2,503,842 | 974,820 | 407,017 | 40,517 | 340,681 | 36,814 | 345,068 | 10,325 | 4,201 | \$ 63,930,780 |
| CES | TOTAL DEFERRED OUTELOWS OF RESOURCES | \$ 59,766,030 | 4,905,809 | 2,509,057 | 1,992,017 | 165,506 | 800,843 | 269,094 | 1,302,942 | 50,217 | 90,410 | \$ 71,851,925 |
| DEFERRED OUTFLOWS OF RESOURCES | CHANGES IN PROPORTION AND DIFFRENCES BIETWEEN CONTRIBUTIONS AND FROPORTIONATE PROPORTIONATE STARE OF | \$ 5,813,287 | 2,626,497 | 1,621,653 | 1,621,498 | 128,623 | 490,712 | 235,581 | 988,818 | 40,818 | 86,586 | \$ 13,654,073 |
| RRED OUTFLOV | CHANGES OF ASSUMPTIONS | \$ 53,034,936 | 2,240,538 | 872,308 | 364,216 | 36,256 | 304,855 | 32,943 | 308,780 | 9,239 | 3,759 | \$ 52,207,830 |
| DEFE | DIFFERENCES BETWEN BETWEN AND ACTUAL AND ACTUAL EXPERIENCE | \$ 917,807 | 38,774 | 15,096 | 6,303 | 627 | 5,276 | 570 | 5,344 | 160 | 65 | \$ 990,022 |
| | NET PENSION LIABILITY | \$1,575,431,289 | 66,556,399 | 25,912,372 | 10,819,220 | 1,077,001 | 9,055,877 | 978,575 | 9,172,487 | 274,455 | 111,675 | \$1,699,389,350 |
| | EMPLOVER | County of San Joaquin | SJC Superior Court | Lathrop- Manteca Rural Fire Protection District | Waterloo- Morada Rural Fire Protection District | Tracy Public Cemetery District | SJC Mosquito and Vector Control District | SJC Historical Society and Museum | Mountain House Community Services District | San Joaquin County Law Library | Local Agency Formation Commission | TOTALS |

NOTES TO THE OTHER INFORMATION

FOR THE YEAR ENDED DECEMBER 31, 2021

NOTE 1 – BASIS OF PRESENTATION AND BASIS OF ACCOUNTING

Because San Joaquin County Employees' Retirement Association (SJCERA) is a cost sharing multiple-employer pension plan, employers participating in SJCERA are required to report a portion of the collective Net Pension Liability, Pension Expense, and Deferred Outflows and Inflows of Resources in their financial statements for fiscal periods beginning on or after June 15, 2014, in accordance with Governmental Accounting Standards Board (GASB) Statement No. 68, Accounting and Financial Reporting for Pensions – an Amendment of GASB Statement No. 27. GASB Statement No. 68 requires that the proportionate share for each employer be determined based on the employer's projected long-term contribution effort to the pension.

SJCERA's actuary prepared the following documents, (1) the Schedule of Cost Sharing Employer Allocations and (2) the Schedule of Employer Pension Amounts Allocated by Cost Sharing Plan, in accordance with accounting principles generally accepted in the United States of America as applicable to governmental organizations based on information provided by SJCERA. These documents provide the required information for financial reporting related to SJCERA that employers may use in their financial statements. The measurement date for SJCERA is December 31, 2022. Measurements are based on the fair value of assets as of December 31, 2022, and the Total Pension Liability of \$5,517,142,112 as of December 31, 2022, was measured as of a valuation date of January 1, 2022, and projected to December 31, 2022.

NOTE 2 – AMORTIZATION OF DEFERRED OUTFLOWS AND DEFERRED INFLOWS OF RESOURCES

The difference between projected and actual investment earnings on pension plan investments is amortized over five years on a straight-line basis. One-fifth is recognized in Total Pension Expense for each of the five years. The changes in assumptions and differences between expected and actual experience are recognized over the average of the expected remaining service lives of all active and inactive members of SJCERA, which is also five years. The net effect of the change in the employer's proportionate share of the collective net pension liability and collective deferred outflows of resources and deferred inflows of resources is recognized over the average expected remaining service lives of all active members of SJCERA.



Independent Consultant's Report



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May 24, 2023

Board of Trustees San Joaquin County Employees' Retirement Association 6 South El Dorado Street Suite 400 Stockton, CA 95202

Dear Trustees:

Enclosed is our report on the investment activity for the San Joaquin County Employees' Retirement Association (SJCERA) for the period ending December 31, 2022.

SJCERA - Total Fund Performance

As of December 31, 2022, the SJCERA Portfolio had approximately \$3.8 billion in total assets, a decrease of roughly \$252 million for the calendar year due to negative investment results¹. The SJCERA Total Fund generated a gross of fees return of -6.7% for the calendar year, trailing its 6.75% assumed rate of return. However, the portfolio bested it assumed rate for three of the last five calendar years. While total portfolio performance was negative in 2022, the Crisis Risk Offset class returned a positive 9.9%. Aggressive Growth, which includes private equity and private real estate, provided positive returns and outperformed its benchmark over all long-term trailing time periods. With a negative (9.8%) return in 2022, Principal Protection provided significant outperformed its benchmark 70 basis points. Performance for all of the strategic classes were positive over the five- and ten-year periods.

Each quarter, the Pension Plan reviews the performance of the total fund along with the underlying strategic classes and individual managers versus their appropriate benchmarks.

Market Review

As 2022 began, investors were riding the wave of strong returns over the last couple years and expectations were for inflation to be transitory, growth to fall slightly, and the Federal Reserve to raise interest rates to just below 1% by year-end. This clearly did not play out as inflation remained well above expectations and the Federal Reserve, and other central banks, raised interest rates at a pace we have not witnessed in a long time.

As some of the global population resumed activity like pre-pandemic times during the year, parts of the world remained on lockdown, notably China. With increased mobility and related improvements to economic growth, along with lingering supply issues from the pandemic, increases in prices began to

¹ Aggressive Growth and Private Credit data is lagged one quarter.

BOSTON CHICAGO LONDON MIAMI NEW YORK PORTLAND SAN DIEGO

Independent Consultant's Report

Μ

May 24, 2023

take center stage, especially among developed nations. At the end of January, the consumer price index ("CPI") in the United States hit 7.5% for the first time since the early 1980s, a level well above the Federal Reserve's average target of 2%. As the year started, the Federal Reserve began to acknowledge that this bout with inflation may not be transitory, as it was previously labeled, and signaled that they intended to begin increasing the fed funds rate.

The unemployment rate remained elevated at the start of the year too at 6.7% but continued to improve over the first quarter declining to 6.1% despite the Omicron variant. Average hourly earnings continued to rise during the quarter, reaching the 2022 peak of 5.9% by quarter-end, a level still below inflation. The labor force participation rate remained below pre-pandemic levels as many workers stayed on the sidelines. This contributed to there being many more job openings than applicants, a trend that would continue for all of calendar year 2022.

In late February, Russia invaded Ukraine and the west responded with sweeping sanctions that exceeded market expectations. Restricting access to foreign reserves was key, leading Russia's central bank to dramatically increase interest rates (9.5% to 20%³) to try to protect the currency. Because of rising rates in the US, as well as safe-haven flows, the US dollar strengthened at the start of the year versus other currencies. This is a trend that would continue throughout the year. Concerns that inflation may remain higher for longer had been compounded by the tragic conflict in Ukraine. The war specifically weighed on energy and food prices.

As the first calendar quarter of the year ended, market volatility increased, driven by unrelenting inflation, expectations for policy to tighten much faster than previously expected, and Russia's invasion of Ukraine as well as its potential financial consequences for the global economy.

As a result, all major public market asset classes declined in the three months ending March, except for commodities. US equities (Russell 3000: -5.3%) had similar declines compared to equities outside the US (MSCI ACWI ex. US: -5.4%). Value stocks significantly outperformed growth stocks, and investors preferred companies presumably better able to weather the tightening financial conditions. An increase in inflation expectations, and the pricing in of higher policy rates, proved to be a challenging headwind for nearly all bond indices in the first calendar quarter of 2022, with only 3-month Treasury Bills providing positive returns. The broad US bond market (Bloomberg Aggregate) fell an impressive 5.9% just in the first quarter.

The Federal Reserve started its rate increases with 50 basis point hikes in March and May. At the June 8, 2022, meeting, Federal Reserve policy makers increased rates by a surprising 75 basis points versus the 50 basis points expected. Shortly following this meeting in June, CPI was released showing that prices had increased to a multi-decade high of $9.1\%^4$, again above expectations. This surprised markets and put into question the idea that inflation was peaking, as well as accelerated investor expectations for the pace of the Fed tightening policy. High inflation levels and potentially rapidly rising rates also elevated concerns about the US economy, and others, heading into a recession.

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May 24, 2023

The US bond market (Bloomberg Aggregate) had its worst first half of a calendar year on record (-10.3%) while the US equity market (S&P 500) had its 3rd worst first half of a year (-20.0%). For historical perspective, this was the only start to a year where both indices were in top ten lists for negative performance. The decline in the S&P 500 through June 2022 also brought the index into bear market territory.

In Europe, the war in Ukraine, high inflation, slow growth, and a reliance on energy imports all weighed on markets. However, the European Central Bank had not yet begun to increase rates. Similarly, Japan seemed committed to their monetary policy of low rates, leading to weakness in the yen not seen since 1998. The MSCI EAFE index declined by 19.6%³ through the first half of 2022. The strength of the US dollar played a significant role in the decline for US investors, with the index declining only 11.3% in local terms (much less than domestic equities). China had begun to relax COVID-Zero policies around the middle of the year leading to positive results $(+3.4\%^3)$ for the MSCI China index in the second quarter. The gains contributed to the MSCI Emerging Markets index $(-17.6\%^3)$ outpacing developed markets in the first six months of 2022.

The second half of calendar year 2022 started off with strong performance across global markets, especially in the US. Investors' optimism at the time was driven by a decline in inflation measures, as the CPI ticked down from 9.1% to 8.5% and came in below expectations³. This led to longer-dated yields falling as investors reconsidered economic growth prospects and the likelihood that yields had reached their peak for this economic cycle. Shorter dated yields rose on near-term monetary policy actions and messaging that policy officials intended to remain aggressive in fighting inflation pressures into early 2023. This messaging effectively started tightening financial conditions that had been loosening since the end of April.

It was also at the start of July when we first saw an inversion in the US yield curve. The yield spread between two-year and ten-year Treasuries, finished July at -0.23%. Inversions in the yield curve have historically signaled building recessionary pressures.

The Federal Reserve raised interest rates by an additional 75 basis points³ in July and again by the same amount in September. The European Central Bank also notably started increasing rates, moving off 0%. They increased rates by 50 basis points in July followed by a surprise 75 basis point increase in September.

Federal Reserve messaging about policy going forward, combined with outsized interest rate hikes due to the slow rate of decline in inflation and a strong labor market resulted in significant equity market declines in both August and September 2022. The September CPI release showed prices that increased 8.2% over the trailing twelve months, which was lower than the peak of 9.1% but still above the pace of market expectations at the time. The US bond market (Bloomberg Aggregate) continued its decline through the third quarter (-14.6%) as did the US Equity Market (Russell 3000), which returned -24.6% year-to-date through September.

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May 24, 2023

The last calendar quarter of 2022 started very strong for developed market equities, on returned signs that inflation may be peaking, monetary policy tightening may relatedly slow, and hopes for a soft-landing of major economies. However, as the quarter progressed, results were mixed by month and region as the world received mixed signals on inflation. Overall, US equities finished the fourth quarter up (Russell 3000: +7.2%³), while equities outside the US (MSCI ACWI ex. US: +14.3%) increased even more versus stocks in the US. The US bond market also finished the calendar quarter in positive territory (Bloomberg Aggregate: +1.9%).

Inflation, as measured by CPI, declined to 6.5% by the end of the year. While progress had been made since the 2022 peak of 9.1%, there was still much work to be done to bring the pace of price increases down to the Federal Reserve's preferred range. Except for Japan, inflation impacted the rest of the developed world as well. Inflation in the Eurozone ended the year at 9.2%, down from a peak of 10.6%. Similarly, inflation in the UK ended the year at 9.2%, down from a peak of 9.6%.

The US labor market remained extraordinarily strong throughout 2022, with the unemployment rate declining to 3.5% at the end of the year from a starting point of 3.9%. The labor force participation rate remained slightly above 62% for most of 2022. This is an increase from the lows of the pandemic but still below the 63.4% level from before the pandemic. Average hourly earnings declined at the backend of 2022 after peaking at 5.9% in March, finishing the year at 4.8%. The strength of the labor market in the US contributed to the Federal Reserve's continued hawkish stance. In Europe and Japan, increases in unemployment were less during the pandemic compared to the US but also improved.

Economic growth in the US rebounded in the second half of 2022 after declining, respectively, at annualized rates of 1.6% and 0.6% in the first and second quarters. The GDP release for the third calendar quarter of 2022 came in at an annualized rate of 3.2%, and the most recent fourth quarter growth rate was 2.7%, resulting in full calendar year 2022 GDP growth of 2.1%. Outside the US, the Euro area economy grew 3.5%, the UK at 4.1% and Japan at 1.7% over calendar year 2022. Looking forward, growth is expected to slow in 2023 with many forecasts being downgraded given inflation dynamics and expectations for policy. This upcoming year we will likely see how successful central banks are in reducing inflation while trying to not tip their respective economy into recession. Beyond 2023, growth is expected to return to pre-pandemic levels.

Over the full year, US stocks outperformed emerging markets but underperformed developed markets outside the US. The Russell 3000 returned -19.2% for the year, compared to the MSCI EAFE at -14.5%, and a decline of -20.1% for the MSCI Emerging Markets index. Though the MSCI China index had strong performance in the fourth quarter (+13.5%) on reopening optimism, the full year return was -21.9%. Within fixed income, the inflation adjustment helped TIPS' full year relative results as the Bloomberg TIPS index decreased 11.8% over the full year, while the Bloomberg Aggregate index declined by -13.0%. Riskier bonds declined overall too in 2022, but less than high quality bonds. The Bloomberg High Yield index fell 11.2% in 2022.

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Independent Consultant's Report

May 24, 2023

Asset Liability Study

In 2022, SJCERA completed an extensive asset liability study. As a result of the asset liability study, SJCERA made several changes to its long-term portfolio targets. These changes included increases to the Broad Growth portfolio with Aggressive Growth and Traditional Growth classes increasing by 8% in aggregate. These move also lowered the allocation to Principal Protection, Credit and Crisis Risk Offset. The new strategic targets should improve the likelihood of the plan accomplishing its primary financial objective: to earn a long-term return of 6.75%.

| Gross of Fees Investment Performance | e as of December 31, 2022*: |
|--------------------------------------|-----------------------------|
|--------------------------------------|-----------------------------|

| Asset Class | | | Annua | lized | | |
|------------------------------------|-----------|-------|-------|-------|-------|-------|
| | Market | | | | | |
| | Value | | 1 | 3 | 5 | 10 |
| | (\$000) | %** | Year | Years | Years | Years |
| SJCERA Total Plan | 3,816,744 | 100.0 | -6.7 | 5.1 | 5.5 | 6.2 |
| Policy Benchmark | | | -8.9 | 3.8 | 4.8 | 5.8 |
| Broad Growth | 2,863,675 | 75.0 | -8.2 | 5.8 | 6.4 | 7.4 |
| Aggressive Growth | 345,920 | 9.1 | 20.3 | 22.5 | 18.9 | 15.9 |
| Aggressive Growth Blend | | | 0.3 | 11.7 | 9.6 | 9.3 |
| Traditional Growth | 1,316,806 | 34.5 | -17.7 | 2.6 | 4.2 | 7.5 |
| MSCI ACWI IMI Net | | | -18.4 | 4.4 | 5.7 | 8.5 |
| Stabilized Growth | 1,200,948 | 31.5 | -3.2 | 5.3 | 5.7 | 4.7 |
| SJCERA Stabilized Growth Benchmark | | | 2.3 | 4.5 | 5.0 | 5.5 |
| Diversifying Strategies | 815,322 | 21.4 | 0.9 | 2.3 | 2.7 | 3.9 |
| Principal Protection | 284,210 | 7.4 | -9.8 | -2.3 | 0.7 | 2.5 |
| Bloomberg US Aggregate TR | | | -13.0 | -2.7 | 0.0 | 1.1 |
| Crisis Risk Offset | 531,112 | 13.9 | 9.9 | 5.6 | 4.2 | 6.9 |
| CRO Benchmark | | | -4.8 | 2.5 | 3.2 | 3.5 |
| Cash | 109,127 | 2.9 | 1.6 | 0.7 | 1.0 | 0.7 |
| ICE BofA 91 Days T-Bills TR | | | 1.5 | 0.7 | 1.3 | 0.8 |

*Rates of return are represented using a time-weighted rate of return methodology based upon market values. **Actual % allocation as of December 31, 2022

1 Source: Bloomberg. Data as of January 31, 2022. 2 Source: Bureau of Labor Statistics.

- 3 Source: Bloomberg. 4 Source: Bloomberg. Data as of June 30, 2022. 5 Source: Office for National Statistics.
- 6 Source: Bureau of Economic Analysis.
- 7 Source: Eurostat. 8 Source: World Bank.

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<u>Investment</u>

Asset Allocation as of December 31, 2022

| | INVESTMENT | ACTUAL ALLOCATION | TARGET ALLOCATION |
|---------------------------------|------------------|----------------------|----------------------|
| Aggressive Growth | \$ 358,058,142 | 9.1% | 16.0% |
| Traditional Growth | 1,316,293,371 | 33.5% | 34.0% |
| Risk Parity | 358,053,342 | 9.1% | 6.0% |
| Credit | 579,784,841 | 14.8% | 15.0% |
| Core Real Assets | 531,550,354 | 13.5% | 9.0% |
| Principal Protection | 278,165,455 | 7.1% | 7.0% |
| Crisis Risk Offset (CRO) | 238,796,399 | 6.1% | 13.0% |
| Cash and Short Term Investments | 266,968,583 | 6.8% | 0.0% |
| TOTAL | \$ 3,927,670,487 | 100.0% | 100.0% |

List of Largest Assets Held

Largest Stock Holdings (By Fair Value) DECEMBER 31, 2022

| | STOCKS | SHARES | FAIR VALUE |
|----|--------------------------------|-----------|------------------|
| 1 | SJC-NT Collective MSCI World I | 9,884,152 | \$ 1,142,805,711 |
| 2 | *SJC Panagora Diversified Risk | 1,444,389 | 175,868,070 |
| 3 | *SJC Lombard Odier Asset Mgmt | 6,994,650 | 55,784,436 |
| 4 | *SJC Stone Hrbr Absolute | 14,488 | 19,974,862 |
| 5 | *SJC Invesco Real Estate | 18,674 | 3,956,274 |
| 6 | *SJC Invesco Real Estate | 32,824 | 3,700,250 |
| 7 | *SJC Invesco Real Estate | 2,941 | 1,926,443 |
| 8 | *SJC Invesco Real Estate | 13,053 | 1,866,579 |
| 9 | *SJC Invesco Real Estate | 27,162 | 1,722,886 |
| 10 | *SJC Invesco Real Estate | 44,323 | 1,716,630 |

A complete list of the stock holdings is available upon request.

Largest Bond Holdings (By Fair Value) DECEMBER 31, 2022

| _ | STOCKS | PAR | FAIR VALUE |
|----|--------------------------------|------------|---------------|
| 1 | *SJC Loomis Sayles-SL | 8,654,148 | \$ 90,176,224 |
| 2 | SJC Neuberger Berman | 2,858,324 | 25,982,168 |
| 3 | *SJC-Dodge & Cox Long Durat-SL | 20,000,000 | 16,578,906 |
| 4 | SJC Neuberger Berman | 280,222 | 14,445,421 |
| 5 | *SJC Stone Hrbr Absolute | 2,047,386 | 14,004,117 |
| 6 | *SJC-Dodge & Cox Long Durat-SL | 18,000,000 | 13,576,641 |
| 7 | *SJC-Dodge & Cox Long Durat-SL | 9,100,000 | 9,486,750 |
| 8 | *SJC-Dodge & Cox Long Durat-SL | 10,900,000 | 9,482,574 |
| 9 | *SJC-Dodge & Cox Long Durat-SL | 18,000,000 | 9,117,721 |
| 10 | SJC Neuberger Berman | 98,044 | 8,293,542 |

A complete list of the bond holdings is available upon request.

Schedule of Investment Fees

| | 2022 ASSETS MANAGED | 2022 FEES |
|---|------------------------|------------------|
| INVESTMENT MANAGEMENT FEES | | |
| Aggressive Growth | \$ 358,058,142 | \$ 9,116,460 |
| Traditional Growth | 1,316,293,371 | 1,134,789 |
| Risk Parity | 358,053,342 | 1,520,367 |
| Credit | 579,784,841 | 4,657,047 |
| Principal Protection | 278,165,455 | 501,341 |
| Credit Risk Offset | 238,796,399 | 6,723,746 |
| Core Real Assets - Short Term Investments / Cash / Cash Equivalents | 798,518,937 | 145,994 |
| TOTAL ASSETS MANAGED AND INVESTMENT MANAGEMENT FEES | \$ 3,927,670,487 | \$ 23,799,744 |

Schedule of Commissions

FOR THE YEAR ENDED DECEMBER 31, 2022

| RANK | BROKER | COMMISSION PAID | SHARE PAR VALUE TRADED | COMMISSION PER SHARE** |
|------|------------------------------------|-----------------|---------------------------|---------------------------|
| 1 | Citigroup Global Markets, Inc. | \$ 22,393.20 | 747,414 | \$0.03 |
| 2 | U.S. Physicals | 9,480.56 | 1,000,000 | \$0.01 |
| 3 | J.P. Morgan Securities, LLC / JPMC | 6,824.11 | 341,169 | \$0.02 |
| 4 | Barclays Capital, Inc. / LE | 4,614.45 | 264,566 | \$0.02 |
| 5 | Bank of America Corporation | 1,465.65 | 229,898 | \$0.01 |
| 6 | ISI Group, Inc. | 1,411.09 | 77,034 | \$0.02 |
| 7 | Goldman, Sachs and Co. | 495.86 | 24,791 | \$0.02 |
| 8 | Liquidnet, Inc. | 400.90 | 20,405 | \$0.02 |
| 9 | RBC Capital Markets, LLC | 385.14 | 29,679 | \$0.01 |
| 10 | Cantor Fitzgerald & Co. | 228.41 | 11,593 | \$0.02 |
| 11 | Others* | 245.69 | 11,832 | \$0.02 |
| | TOTAL BROKERAGE COMMISSIONS | \$ 47,945.06 | 2,758,381 | |

* Includes approximately 16 additional firms each with less than 0.29% of total commissions. ** Annual Average Commision per Share

Investment Summary

| | FAIR VALUE DECEMBER 31, 2022 | PERCENTAGE OF MARKET VALUE |
|--|---------------------------------|-------------------------------|
| AGGRESSIVE GROWTH - PRIVATE EQUITY | | |
| & OPPORTUNISTIC REAL ESTATE | | |
| Almanac Realty | \$ 4,004,118 | 0.1% |
| Angelo Gordon & Co. | 9,776,790 | 0.2% |
| Berkeley Partners | 29,895,103 | 0.8% |
| Blackrock Global Energy & Power | 37,457,395 | 1.0% |
| Blackrock Global Infrastructure Fund IV | 3,281,029 | 0.1% |
| Grandview fka Greenfield VIII | 17,382,607 | 0.4% |
| Greenfield V | 216,175 | 0.0% |
| Greenfield VI | 23,599 | 0.0% |
| Greenfield VII | 2,314,538 | 0.1% |
| Lightspeed Venture Ptr Select V | 8,406,757 | 0.2% |
| Miller Global Fund VI | 15,639 | 0.0% |
| Miller Global Fund VII | 1,794 | 0.0% |
| Morgan Creek III | 4,660,219 | 0.1% |
| Morgan Creek V | 6,974,665 | 0.2% |
| Morgan Creek VI | 23,692,977 | 0.6% |
| Ocean Avenue II | 37,682,566 | 1.0% |
| Ocean Avenue III | 52,236,036 | 1.3% |
| Ocean Avenue IV | 53,712,478 | 1.4% |
| Stellex Capital Partners I | 30,436,049 | 0.8% |
| Stockbridge Value Fund II | 28,441,044 | 0.7% |
| Walton Street Fund V | 1,047,788 | 0.0% |
| Walton Street Fund VI | 6,398,776 | 0.2% |
| TOTAL AGRESSIVE GROWTH | \$ 358,058,142 | 9.1% |
| TRADITIONAL GROWTH | | |
| NT Collective MSCI World IMI | \$ 1,142,808,772 | 29.1% |
| GQG Partners | 55,830,063 | 1.4% |
| nvesco REIT | 41,677,419 | 1.1% |
| PIMCO RAE FUNDAMENTAL (Research Affiliates) Emerging | 75,977,117 | 1.9% |
| TOTAL TRADITIONAL GROWTH | | 33.5% |
| RISK PARITY | | |
| Bridgewater All-Weather | \$ 182,185,272 | 4.6% |
| PanAgora Diversified Risk | 175,868,070 | 4.5% |
| TOTAL RISK PARITY | \$ 358,053,342 | 9.1% |
| CREDIT | - 000,000,072 | 5.170 |
| Blackrock Direct Lending | \$ 91,373,667 | 2.3% |
| Crestline – Opportunity Fund II | 14,598,388 | 0.4% |
| Davidson Kempner | 47,376,527 | 1.2% |
| HPS Investment Partners | 25,485,809 | 0.6% |
| Medley Opportunity Fund II | 4,378,784 | 0.1% |

(Continued on page 69)

Investment Summary (cont.)

| | FAIR VALUE DECEMBER 31, 2022 | PERCENTAGE OF MARKET VALUE |
|---|---------------------------------|-------------------------------|
| Mesa West III & IV | \$ 37,723,246 | 1.0% |
| Neuberger Berman | 95,072,618 | 2.4% |
| Oaktree Middle Market | 30,874,431 | 0.8% |
| Raven Capital – Fund III | 58,435,316 | 1.5% |
| Stone Harbor – Absolute Return | 111,442,669 | 2.8% |
| White Oak Summit | 24,855,132 | 0.6% |
| White Oak Yield Spectrum | 38,168,254 | 1.0% |
| TOTAL CREDIT | \$ 579,784,841 | 14.8% |
| CRISIS RISK OFFSET (CRO) | | |
| AQR Style Premia | \$ 55,128,736 | 1.4% |
| Dodge & Cox Long Duration | 112,274,266 | 2.9% |
| Graham Tactical Trend | 118,637,713 | 3.0% |
| Lombard Odier | 55,784,436 | 1.4% |
| Mount Lucas – Managed Futures | 122,565,253 | 3.1% |
| PE Diversified Global Macro / Almond Global | 67,159,950 | 1.7% |
| TOTAL CRISIS RISK OFFSET (CRO) | \$ 531,550,354 | 13.5% |
| PRINCIPAL PROTECTION | | |
| Dodge & Cox – Fixed | \$ 187,989,171 | 4.8% |
| Loomis Sayles | 90,176,224 | 2.3% |
| Double Line – MBS | 60 | 0.0% |
| TOTAL PRINCIPAL PROTECTION | \$ 278,165,455 | 7.1% |
| CORE REAL ASSETS | | |
| Principal U.S. Property | \$ 43,794,434 | 1.1% |
| Prologis / AMB Propery | 131,932,363 | 3.4% |
| RREEF America II | 63,034,561 | 1.6% |
| Parametric PIOS | 35,040 | 0.0% |
| TOTAL CORE REAL ASSETS | \$ 238,796,399 | 6.1% |
| TOTAL INVESTMENTS AT FAIR VALUE | \$ 3,660,701,904 | |
| CASH AND SHORT TERM INVESTMENTS | | |
| STIF – Northern Trust | \$ 134,928,273 | 3.4% |
| Security Lending Cash | 125,564,605 | 3.2% |
| Cash - Bank of the West | 42,386 | 0.0% |
| Parametric PIOS | 4,678,953 | 0.1% |
| Stone Harbor Absolute & Nueberger Berman | 1,754,367 | 0.0% |
| TOTAL CASH AND SHORT TERM INVESTMENTS | \$ 266,968,583 | 6.8% |
| TOTAL | \$ 3,927,670,487 | 100.0% |

<u>Investment</u>

List of Investment Managers

AGGRESSIVE GROWTH

Almanac Realty Angelo Gordon & Co. **Berkeley Partners** Blackrock Energy & Power Blackrock Global Infrastructure Fund IV Grandview I-A Greenfield V Greenfield VI Greenfield VII Lightspeed Venture Partners Select V Miller Global Fund VI Miller Global Fund VII Morgan Creek III Morgan Creek V Morgan Creek VI Ocean Avenue II Ocean Avenue III **Ocean Avenue IV** Stellex Capital Partners II Stockbridge Value Fund II Walton Street Fund V Walton Street Fund VI

CREDIT

Blackrock Direct Lending Crestline – Opportunity Fund II Davidson Kempner HPS Investment Partners Medley Opportunity Fund II Mesa West III Mesa West IV Neuberger Berman Oaktree Middle Market Raven Capital – Fund III Stone Harbor – Absolute Return White Oak Summit White Oak Yield Spectrum

CRISIS RISK OFFSET (CRO)

AQR Style Premia Dodge & Cox Long Duration Graham Tactical Trend Lombard Odier Mount Lucas – Managed Futures PE Diversified Global Macro / Almond Global

TRADITIONAL GROWTH

GQG Partners Invesco REIT NT Collective MSCI World IMI PIMCO RAE Emerging Markets Fund

PRINCIPAL PROTECTION

Dodge & Cox – Fixed Double Line – MBS Loomis Sayles

RISK PARITY

Bridgewater All-Weather PanAgora Diversified Risk

CORE REAL ASSETS

Parametric PIOS Principal U.S. Property Prologis / AMB Property RREEF America II

CASH AND SHORT TERM INVESTMENTS

Cash – Bank of the West Neuberger Berman Parametric PIOS STIF – Northern Trust Stone Harbor Absolute Cash



Classic Values, Innovative Advice

Actuary's Certification Letter



Via Electronic Mail

May 25, 2023

Retirement Board of San Joaquin County Employees' Retirement Association 6 South El Dorado Street, Suite 400 Stockton, California 95202

Actuarial Certification

Dear Members of the Board,

This is the Actuary's Certification Letter for the Actuarial Section of the Annual Comprehensive Financial Report for the San Joaquin County Employees' Retirement Association (the Plan) as of December 31, 2022. This letter includes references to two documents produced by Cheiron for the Plan: the Actuarial Valuation Report as of January 1, 2022 (August 31, 2022) and the GASB 67/68 Report as of December 31, 2022 (May 17, 2023).

Actuarial Valuation Report as of January 1, 2022

The purpose of the annual Actuarial Valuation Report as of January 1, 2022 is to determine the actuarial funding status of the Plan on that date and to calculate recommended contribution rates for the participating employers and Plan members for the year 2023. The prior review was conducted as of January 1, 2021 and included recommended contribution rates for the year 2022.

Actuarial funding is based on the Entry Age Normal Cost Method. Under this method, the employer contribution rate provides for current cost (normal cost and expected administrative expenses) plus a level percentage of payroll to amortize the unfunded actuarial liability (UAL). As of the valuation date (January 1, 2022), the amortization period is 17 years for half of the 2008 investment loss and 11 years for the remaining UAL as of January 1, 2014. Any unexpected change in the UAL occurring after January 1, 2014 is amortized over a closed 15-year period. At the February 14, 2020 board meeting, the SJCERA Board of Retirement chose to phase-in the impact of the January 1, 2020 economic assumption changes to the UAL over a period of three years, followed by 12 years of payments as a level percentage of payroll. The single equivalent amortization period for the aggregate stream of UAL payments as of January 1, 2022 is 12 years.

The funding objective of the Plan is to accumulate sufficient assets over each Member's working life to provide for Plan benefits after termination of employment or retirement. For actuarial valuation purposes, Plan assets are valued at Actuarial Value, with adjustments for certain Special Reserves. Under this method, the assets used to determine employer contribution rates take into account market value by spreading all investment gains and losses (returns above or below expected returns) over a period of five years, limited by a corridor that restrains the Actuarial Value to within 20% of the market value of assets.

www.cheiron.us 1.877.CHEIRON (243.4766)

Actuary's Certification Letter

Board Members May 25, 2023 Page 2

The Board of Retirement is responsible for establishing and maintaining the funding policy of the Plan.

We prepared the following schedules, which we understand will be included in the Actuarial Section of the Annual Comprehensive Financial Report, based on the January 1, 2022 actuarial valuation. All historical information prior to the January 1, 2013 actuarial valuation shown in these schedules is based on information reported by EFI Actuaries, which was acquired by Cheiron in January 2013.

- Summary of Actuarial Assumptions and Methods
- Schedule of Active Member Valuation Data
- Schedule of Retirees and Beneficiaries Valuation Data
- Retirants and Beneficiaries Added to and Removed from Retiree Payroll
- Schedule of Funded Liabilities by Type
- Actuarial Value of Assets and Reserves
- Summary of Plan Provisions

The assumptions used in this report reflect the results of an Experience Study performed by Cheiron covering the period from January 1, 2019 through December 31, 2021 and approved by the Board at their July 7, 2022 meeting. The assumptions used in the most recent valuation are intended to produce results that, in the aggregate, reasonably approximate the anticipated future experience of the Plan. The next experience analysis is expected to cover the years through 2024.

This actuarial valuation report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. In particular, the assumptions and methods used for funding purposes meet the requirements of the Actuarial Standards of Practice, in particular Standards No. 4, 27, 35, and 44.

GASB 67/68 Report as of December 31, 2022

The purpose of the GASB 67/68 Report as of December 31, 2022, is to provide accounting and financial reporting information under GASB 67 for the Plan and under GASB 68 for the County of San Joaquin and other participating employers. This report is not appropriate for other purposes, including the measurement of funding requirements for the Plan.

For financial reporting purposes, the Total Pension Liability is based on the January 1, 2022 actuarial valuation updated to the measurement date of December 31, 2022. There were no significant events between the valuation date and the measurement date, so the update procedures consisted of updated actuarial assumptions, plus the addition of service cost and interest cost offset by actual benefit payments.



Actuary's Certification Letter

Board Members May 25, 2023 Page 3

Beginning of year measurements are based on the actuarial valuation as of January 1, 2021. The December 31, 2021 Total Pension Liability presented in the GASB 67/68 Report was based upon the same data, plan provisions, actuarial methods, and assumptions as were used in the Actuarial Valuation Report as of January 1, 2021. The December 31, 2022 Total Pension Liability presented in the GASB 67/68 Report was based upon the same data, plan provisions, actuarial methods, and assumptions as were used in the Actuarial Valuation Report as of January 1, 2021.

Please refer to our GASB 67 report as of December 31, 2022 for additional information related to the financial reporting of the System. We prepared the following schedules for inclusion in the Financial Section of the Annual Comprehensive Financial Report based on the December 31, 2022 GASB 67/68 report:

- Change in Net Pension Liability
- Sensitivity of Net Pension Liability to Changes in Discount Rate
- Schedule of Changes in Net Pension Liability and Related Ratios
- Schedule of Employer Contributions
- Notes to the Schedule of Employer Contributions

The GASB 67 report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. In particular, the assumptions and methods used for disclosure purposes have been prepared in accordance with our understanding of generally accepted accounting principles as promulgated by the GASB.

Disclaimers

In preparing our reports, we relied on information (some oral and some written) supplied by the San Joaquin County Employees' Retirement Association. This information includes, but is not limited to, the plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.

Future actuarial measurements may differ significantly from the current measurements due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and changes in plan provisions or applicable law.

Cheiron utilizes ProVal, an actuarial valuation application leased from Winklevoss Technologies (WinTech) to calculate liabilities and project benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal and have a basic understanding of it and have used ProVal in accordance with its original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect our reports.



Actuary's Certification Letter

Board Members May 25, 2023 Page 4

Cheiron's reports were prepared for the Plan for the purposes described herein and for the use by the plan auditor and participating employers' auditors in completing an audit related to the matters herein. Other users of these reports are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

As credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinions contained in these reports. These reports do not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Respectfully Submitted, Cheiron

Graham Schmidt, ASA, EA, MAAA, FCA Consulting Actuary 703-893-1456 x1137 gschmidt@cheiron.us

Anne Harper, FSA, EA, MAAA

Anne Harper, FSA, EA, MAA Principal Consulting Actuary 703-893-1456 x1107 aharper@cheiron.us



Summary of Actuarial Assumptions and Methods

Actuarial assumptions and methods are both recommended by our actuarial consultant, Cheiron, and adopted by the Board of Retirement on an annual basis. The most current Actuarial Valuation was conducted on January 1, 2022, for the period ending December 31, 2021.

An Experience Analysis is completed once every three years. The most recent Experience Analysis was conducted on August 10, 2022, for the years 2019 through 2021.

| ACTUARIAL COST METHOD | Entry Age Normal Cost Method |
|----------------------------|---|
| UNFUNDED LIABILITY | The excess of the Actuarial Liability over Plan assets is the Unfunded Actuarial Liability (UAL). Half the actuarial loss experienced in 2008 was deemed to be an Extraordinary Actuarial Loss. Thus, 50 percent of the loss is separately amortized as a level percentage of pay over a closed 30-year period, with 17 years remaining as of January 1, 2022. The remainder of the Plan's UAL as of January 1, 2014, is being amortized over a closed 19-year period, with 11 years remaining as of January 1, 2022, decreasing by one year in each annual valuation report. All subsequent unexpected change in the UAL after January 1, 2014, is amortized over 15 years. The UAL payment for the 2020 assumption change is being phased in over a three-year period. |
| VALUATION INTEREST RATE | The annual rate of return on all Plan assets is assumed to be 6.75 percent net of investment expenses. |
| INFLATION ASSUMPTION | 2.60 percent per annum |
| ADMINISTRATIVE EXPENSES | Administrative expenses are assumed to be \$5,173,647 for the next year, to be split between employees and employers based on their share of the overall contributions. Expenses are expected to grow with the cost of living by 2.75 percent per year. |
| POST RETIREMENT COLA | Benefits are assumed to increase after retirement at the rate of 2.6 percent per year. |
| INCREASES IN PAY | Assumed pay increases for active members consist of increases due to base salary adjustments plus service-based increases due to longevity and promotion. Rates vary by age and classification (See Salary Scale Schedule). |
| ASSET VALUATION METHOD | The Plan uses a modified market-related value method called the Actuarial Value of Plan Assets. The fair value of assets is adjusted to recognize, over a five-year period, differences between actual investment earnings and the assumed investment return. Accordingly, only 20 percent of this difference is being recognized in any one year (See Actuarial Value of Assets Schedule). |
| | |

(Continued on page 77)

Summary of Actuarial Assumptions and Methods

| | Mortality rates for General active members are based on the sex distinct 2021 CalPERS Pre-Retirement Non-Industrial Mortality Table, with generational mortality improvements projected from 2017 using 80% Projection Scale MP-2020. Mortality rates for Safety active members are based on the sum of the rates from 2021 CalPERS Industrial and Non-Industrial Mortality tables, with generational mortality improvements projected from 2017 using |
|--------------------------------|---|
| HEALTHY MEMBER | 80% of Projection Scale MP-2020. 10 percent of Safety member active deaths are assumed to occur in the line of duty. Mortality rates for healthy General annuitants are based on the sex distinct |
| MORTALITY | 2021 CalPERS Healthy Annuitant Mortality Tables, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020, and a partial credibility adjustment of 1.05 for males and no adjustment for females. |
| | Mortality rates for Safety annuitants are based on the sex distinct 2021 CalPERS Healthy Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020, and a partial credibility adjustment of 1.05 for males and no adjustment for females. |
| DISABLED MEMBER MORTALITY | Mortality rates for General disabled annuitants are based on status. Rates for General disabled annuitants with a service-related disability are based on the sex distinct 2021 CalPERS Industrial Disabled Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020. Rates for General disabled annuitants with a non-service-related disability are based on the sex distinct 2021 CalPERS Non-Industrial Disabled Annuitant Mortality Table, with a generational mortality improvement asset projected from 2017 using 80% of Projection Scale MP-2020. |
| | Mortality rates for Safety disabled annuitants are based on the sex distinct 2021 CalPERS Industrially Disabled Mortality Table, with generational mortality improvements projected from 2017 using Projection 80% of Scale MP-2020. |
| VESTED TERMINATION RATES | Rates vary by service and classification (See <i>Probabilities of Separation Schedule</i>). |
| WITHDRAWAL RATES | Rates vary by service and classification (See Probabilities of Separation Schedule). |
| DISABILITY RATES | Rates vary by age, gender and classification (See Probabilities of Separation Schedule). |
| | (Continued on page 78) |

(Continued on page 78)

Summary of Actuarial Assumptions and Methods

| DUTY DISABILITY RATES | Rates vary by age, gender and classification (See Probabilities of Separation Schedule). |
|---|--|
| SERVICE RETIREMENT RATES | Rates vary by age, service, gender and classification (See <i>Probabilities</i> of Separation Schedule). |
| FAMILY COMPOSITION | Male members are assumed to be three years older than their spouses. Female members are assumed to be two years younger than their spouses. It is assumed that 90% of participants with eligible beneficiaries who do not have a service-related disability elect the 60% Joint and Survivor allowance. 55 percent of female members and 75 percent of male members who retire, become disabled, or die during active service are assumed to be married. |
| | Rates of withdrawal apply to active Members who terminate their employment and withdraw their member contributions, forfeiting entitlement to future Plan benefits. |
| WITHDRAWALS | 50 percent of all General Member terminations with less than five years of service, 25 percent of those with five to 14 years of service, and 10 percent of those with 15 or more years of service, are assumed to take a refund of contributions. |
| | 50 percent of all Safety Member terminations with less than five years of service, 20 percent of those with five to 14 years of services, and 15 percent of those with 15 or more years of service, are assumed to take a refund of contributions. |
| VESTED TERMINATIONS | 75 percent of vested terminated General Members with less than five years of service, 25 percent of those with five to 14 years of service, and 40% of those with 15 or more years of service, are assumed to be reciprocal. |
| | 67 percent of vested terminated Safety Members with less than five years of service, and 50 percent of those with five or more years of service, are assumed to be reciprocal. |
| DEFERRAL AGE FOR VESTED TERMINATORS | Vested terminated General Members are assumed to begin receiving benefits at age 58. Vested terminated Safety Members are assumed to begin receiving benefits at age 50, unless they have outgoing reciprocity, in which case they are assumed to begin receiving benefits at age 53. |
| EMPLOYMENT STATUS | No future transfers among member groups are assumed. |

Schedule of Active Member Valuation Data

| ACTUARIAL VALUATION DATE | PLAN TYPE | MEMBERS | ANNUAL PAYROLL | AVERAGE ANNUAL SALARY | AVERAGE SALARY INCREASE |
|-----------------------------|-----------|---------|-------------------|--------------------------|----------------------------|
| | General | 5,492 | \$ 424,197,359 | \$ 77,239 | 2.89% |
| | Safety | 837 | 77,959,639 | 93,142 | 2.99% |
| 01/01/2022 | TOTAL | 6,329 | \$ 502,156,998 | \$ 79,342 | 2.93% |
| | General | 5,518 | 414,244,475 | 75,071 | 2.50% |
| | Safety | 832 | 75,245,783 | 90,440 | 3.38% |
| 01/01/2021 | TOTAL | 6,350 | \$ 489,490,258 | \$ 77,085 | 2.61% |
| | General | 5,526 | 404,710,743 | 73,238 | -0.03% |
| | Safety | 843 | 73,747,564 | 87,482 | 3.51% |
| 01/01/2020 | TOTAL | 6,369 | \$ 478,458,307 | \$ 75,123 | 0.45% |
| | General | 5,485 | 401,820,940 | 73,258 | 3.21% |
| | Safety | 860 | 72,680,957 | 84,513 | 1.26% |
| 01/01/2019 | TOTAL | 6,345 | \$ 474,501,897 | \$ 74,784 | 2.89% |
| | General | 5.370 | 381,151,442 | 70,978 | 0.63% |
| | Safety | 848 | 70,776,611 | 83,463 | 0.14% |
| 01/01/2018 | TOTAL | 6,218 | \$ 451,928,053 | \$ 72,681 | 0.61% |
| | General | 5,291 | 373,202,798 | 70,535 | 6.22% |
| | Safety | 811 | 67,593,920 | 83,346 | -0.55% |
| 01/01/2017 | TOTAL | 6,102 | \$ 440,796,718 | \$ 72,238 | 5.10% |
| | General | 5,131 | 340,731,847 | 66,407 | 0.36% |
| | Safety | 793 | 66,456,278 | 83,804 | 1.19% |
| 01/01/2016 | TOTAL | 5,924 | \$ 407,188,125 | | 0.22% |
| | General | 4,879 | 322,836,680 | 66,169 | -0.86% |
| | Safety | 827 | 68,491,483 | 82.819 | 1.57% |
| 01/01/2015 | TOTAL | 5,706 | \$ 391,328,163 | \$ 68,582 | -0.44% |
| | General | 4,748 | 316,885,044 | 66,741 | -0.57% |
| | Safety | 805 | 65,640,055 | 81,540 | 1.69% |
| 01/01/2014 | TOTAL | 5,553 | \$ 382,525,099 | \$ 68,886 | -0.31% |
| | General | 4,492 | 301,505,122 | 67,120 | -0.08% |
| | Safety | 803 | 64,386,900 | 80,183 | 1.79% |
| 01/01/2013 | TOTAL | 5,295 | \$ 365,892,022 | | 0.19% |

Payroll figures represent active member's annualized pay rates on December 31. The most current Actuarial Valuation was conducted on January 1, 2022 for the period ending December 31, 2021. The information in subsequent year is currently not available.

Schedule of Retirees and Beneficiaries Valuation Data

| ACTUARIAL VALUATION DATE | PLAN TYPE | Member Retirements | BENEFICIARY CONTINUANCE | MEMBERS AND BENEFICIARIES REMOVED | TOTAL RETIREES ON PAYROLL | | annual Retirement Payroll | | VERAGE ANNUAL LOWANCE | AVERAGE ALLOWANCE % INCREASE |
|--------------------------------|--------------|-----------------------|----------------------------|---|---------------------------------|----|---------------------------------|----|-----------------------------|------------------------------------|
| | General | 246 | 58 | 159 | 5,395 | Ś | 192,121,249 | \$ | 35,611 | 2.3% |
| | Safety | 48 | 24 | 36 | 1,147 | | 71,998,606 | | 62,771 | 0.8% |
| 01/01/2022 | TOTAL | 294 | 82 | 195 | 6,542 | \$ | 264,119,855 | \$ | 40,373 | 1.9% |
| | General | 237 | 47 | 159 | 5,250 | Ś | 182,786,202 | \$ | 34,816 | 3.9% |
| | Safety | 37 | 10 | 139 | 1,111 | Ş | 69,214,609 | \$ | 62,299 | 2.5% |
| 01/01/2021 | TOTAL | 274 | 57 | 178 | 6,361 | Ś | 252,000,811 | \$ | 39,617 | 3.5% |
| | | | | | | | | | | |
| | General | 237 | 57 | 179 | 5,125 | \$ | 171,791,597 | \$ | 33,520 | 3.9% |
| | Safety | 49 | 13 | 22 | 1,083 | | 65,822,764 | | 60,778 | 3.3% |
| 01/01/2020 | TOTAL | 286 | 70 | 201 | 6,208 | \$ | 237,614,361 | \$ | 38,276 | 3.9% |
| | General | 290 | 47 | 133 | 5,010 | \$ | 161,602,326 | \$ | 32,256 | 3.9% |
| | Safety | 39 | 8 | 20 | 1,043 | | 61,364,472 | | 58,835 | 3.4% |
| 01/01/2019 | TOTAL | 329 | 55 | 153 | 6,053 | \$ | 222,966,798 | \$ | 36,836 | 3.6% |
| | General | 249 | 49 | 149 | 4,806 | Ś | 149,183,295 | \$ | 31,041 | 3.6% |
| | Safety | 46 | 12 | 13 | 1,016 | Ŷ | 57,837,517 | Ŷ | 56,927 | 1.4% |
| 01/01/2018 | TOTAL | 295 | 61 | 162 | 5,822 | Ś | 207,020,812 | Ś | 35,558 | 3.1% |
| | | | | | | | | | - | |
| | General | 251 | 40 | 128 | 4,657 | \$ | 139,511,334 | \$ | 29,957 | 3.6% |
| | Safety | 40 | 12 | 22 | 971 | | 54,508,607 | | 56,137 | 4.0% |
| 01/01/2017 | TOTAL | 291 | 52 | 150 | 5,628 | \$ | 194,019,941 | \$ | 34,474 | 3.7% |
| | General | 228 | 45 | 136 | 4,494 | \$ | 129,928,957 | \$ | 28,912 | 4.4% |
| | Safety | 54 | 15 | 19 | 941 | | 50,813,875 | | 54,000 | 4.9% |
| 01/01/2016 | TOTAL | 282 | 60 | 155 | 5,435 | \$ | 180,742,832 | \$ | 33,255 | 4.8% |
| | General | 247 | 51 | 112 | 4,358 | \$ | 120.722.240 | \$ | 27,701 | 5.2% |
| | Safety | 241 | 14 | 21 | 4,338 | Ŷ | 45,889,472 | Ŷ | 51,503 | 2.8% |
| 01/01/2015 | TOTAL | 276 | 65 | 133 | 5,249 | Ś | 166,611,712 | Ś | 31,742 | 4.3% |
| | | | | | | | | | | |
| | General | 213 | 52 | 134 | 4,172 | \$ | 109,864,971 | \$ | 26,334 | 4.3% |
| 01/01/2014 | Safety | 22 | 11 | 20 | 869 | 6 | 43,546,661 | 6 | 50,111 | 2.1% |
| 01/01/2014 | TOTAL | 235 | 63 | 154 | 5,041 | \$ | 153,411,632 | \$ | 30,433 | 3.5% |
| | General | 278 | 27 | 135 | 4,041 | \$ | 102,025,575 | \$ | 25,248 | 5.2% |
| | Safety | 52 | 12 | 20 | 856 | | 42,008,598 | | 49,075 | 4.9% |
| 01/01/2013 | TOTAL | 330 | 39 | 155 | 4,897 | \$ | 144,034,173 | \$ | 29,413 | 5.2% |

Payroll figures represent year end monthly retirement benefits annualized and exclude Post-Employment Healthcare benefits and benefits. The most current Actuarial Valuation was conducted on January 1, 2022 for the period ending December 31, 2021. The information in subsequent year is currently not available.

Retirees and Beneficiaries Added to and Removed from Retiree Payroll

| | ADDED T | ADDED TO ROLLS | | ROM ROLLS | ROLLS AT YEAR END | | | |
|----------------|-----------------|------------------------------------|-----------------|-----------------------------------|-------------------|-----------------------------------|---------------------------------------|--------------------------------|
| FISCAL YEAR | MEMBER COUNT | ANNUAL ALLOWANCE (IN 000'S)* | MEMBER COUNT | ANNUAL ALLOWANCE (IN 000'S) | MEMBER COUNT | ANNUAL ALLOWANCE (IN 000'S) | % INCREASE IN RETIREE ALLOWANCE | AVERAGE ANNUAL ALLOWANCE |
| 2022 | 312 | \$ 20,427 | (169) | \$ (5,447) | 6,685 | \$ 279,100 | 3.41% | \$ 41,750 |
| 2021 | 376 | 19,519 | (195) | (7,400) | 6,542 | 264,120 | 1.91% | 40,555 |
| 2020 | 333 | 19,967 | (180) | (5,580) | 6,361 | 252,001 | 3.50% | 39,617 |
| 2019 | 355 | 20,574 | (200) | (5,927) | 6,208 | 237,614 | 3.91% | 38,276 |
| 2018 | 382 | 19,839 | (151) | (3,893) | 6,053 | 222,967 | 3.59% | 36,836 |
| 2017 | 355 | 17,288 | (161) | (4,287) | 5,822 | 207,021 | 3.15% | 35,558 |
| 2016 | 343 | 17,151 | (150) | (3,868) | 5,628 | 194,020 | 3.66% | 34,474 |
| 2015 | 341 | 17,766 | (155) | (3,651) | 5,435 | 180,737 | 4.77% | 33,255 |
| 2014 | 340 | 16,230 | (132) | (3,030) | 5,249 | 166,612 | 4.30% | 31,742 |
| 2013 | 297 | 12,908 | (153) | (3,530) | 5,041 | 153,412 | 3.47% | 30,433 |

* Includes COLA amounts not included in previous year's Annual Allowance totals.

Schedule of Funded Liabilities by Type

| | (DOLLARS IN THOUSANDS) | | | | | | | | | | | |
|------------------------|------------------------|------------------------|--|-------------------------------|-----------------------|---|------|-------|--|--|--|--|
| | ACTU | ARIAL ACCRUED LIA | | | | | | | | | | |
| ACTUARIAL VALUATION | (1) ACTIVE MEMBERS | (2) RETIREES AND | (3) ACTIVE MEMBERS (EMPLOYER FINANCED | TOTAL ACTUARIAL ACCRUED | ACTUARIAL VALUE OF | PORTION OF ACCRUED LIABILITIES COVERED BY REPORTED ASSETS | | | | | | |
| DATE | CONTRIBUTIONS | BENEFICIARIES | PORTION) | LIABILITY | ASSETS | (1) | (2) | (3) | | | | |
| 1/1/2022 | \$ 457,136 | \$ 3,436,812 | \$ 1,429,840 | \$ 5,323,789 | \$ 3,852,266 | 100% | 99% | 0.0% | | | | |
| 1/1/2021 | 426,570 | 3,328,307 | 1,452,792 | 5,207,669 | 3,487,424 | 100% | 92% | 0.0% | | | | |
| 1/1/2020 | 396,549 | 3,162,983 | 1,454,101 | 5,013,632 | 3,226,099 | 100% | 89% | 0.0% | | | | |
| 1/1/2019 | 368,550 | 2,910,061 | 1,442,676 | 4,721,287 | 3,044,898 | 100% | 92% | 0.0% | | | | |
| 1/1/2018 | 344,504 | 2,706,791 | 1,445,681 | 4,496,976 | 2,913,161 | 100% | 95% | 0.0% | | | | |
| 1/1/2017 | 318,021 | 2,513,640 | 1,403,433 | 4,235,094 | 2,733,852 | 100% | 96% | 0.0% | | | | |
| 1/1/2016 | 297,179 | 2,347,908 | 1,361,303 | 4,006,390 | 2,604,473 | 100% | 98% | 0.0% | | | | |
| 1/1/2015 | 276,818 | 2,117,010 | 1,337,806 | 3,731,634 | 2,471,291 | 100% | 100% | 6.0% | | | | |
| 1/1/2014 | 258,198 | 1,956,931 | 1,346,730 | 3,561,859 | 2,285,166 | 100% | 100% | 5.0% | | | | |
| 1/1/2013 | 209,987 | 1,810,776 | 1,332,531 | 3,353,294 | 2,125,700 | 100% | 100% | 8.0% | | | | |
| 1/1/2012 | \$ 202,925 | \$ 1,627,338 | \$ 1,218,058 | \$ 3,048,321 | \$ 2,130,053 | 100% | 100% | 25.0% | | | | |

This schedule excludes, POST 4/1/82 Retiree Class Action Settlement Reserve and Unapportioned Earnings Reserve. The most current Actuarial Valuation was conducted on January 1, 2022 for the period ending December 31, 2021. The information in subsequent year is currently not available.

Schedule of Funding Progress Defined Benefit Pension Plan

FOR THE LAST TEN FISCAL YEARS ENDED DECEMBER 31

| | (DOLLARS IN THOUSANDS) | | | | | | | | | | |
|---|------------------------|---------------------------------------|--|--------------------------|--|---|--|--|--|--|--|
| ACTUARIAL VALUE ACTUARIAL OF ASSETS ¹ VALUATION DATE (A) | | ACTUARIAL LIABILITY (AL) (B) | UNFUNDED ACTUARIAL LIABILITY (UAL) (B-A) | FUNDED RATIO (A/B) | COVERED PAYROLL ² (C) | UAL AS A PERCENTAGE OF ANNUAL COVERED PAYROLL ((B-A)/C) | | | | | |
| | | | | | | | | | | | |
| 1/1/2022 | \$ 3,852,266 | \$ 5,323,789 | \$ 1,471,523 | 72.4% | \$ 502,157 | 293.0% | | | | | |
| 1/1/2021 | 3,487,424 | 5,207,669 | 1,720,245 | 67.0% | 496,778 | 346.3% | | | | | |
| 1/1/2020 | 3,226,099 | 5,013,632 | 1,787,533 | 64.3% | 485,582 | 368.1% | | | | | |
| 1/1/2019 | 3,044,897 | 4,721,287 | 1,676,390 | 64.5% | 481,917 | 347.9% | | | | | |
| 1/1/2018 | 2,913,161 | 4,496,976 | 1,583,815 | 64.8% | 458,991 | 345.1% | | | | | |
| 1/1/2017 | 2,733,852 | 4,235,094 | 1,501,242 | 64.6% | 447,685 | 335.3% | | | | | |
| 1/1/2016 | 2,604,473 | 4,006,390 | 1,401,917 | 65.0% | 413,552 | 339.0% | | | | | |
| 1/1/2015 | 2,471,291 | 3,731,634 | 1,260,343 | 66.2% | 397,636 | 317.0% | | | | | |
| 1/1/2014 | 2,285,166 | 3,561,859 | 1,276,693 | 64.2% | 388,691 | 328.5% | | | | | |
| 1/1/2013 | \$ 2,125,700 | \$ 3,353,294 | \$ 1,227,594 | 63.4% | \$ 365,892 | 335.5% | | | | | |

¹ The actuarial value of assets reflects the smoothing method that adjusts market value differences between the assumed and the actual investment return over a 5-year period.

² Represents the annualization of active members' pay rates on December 31 as determined by the actuarial study.

<u>Actuarial</u>

Assumed Probabilities of Separation from Active Membership (General)

| AGE | NON-DUTY DEATH | ORDINARY DISABILITY | SERVICE RETIREMENT ¹ | DUTY DEATH | DUTY DISABILITY |
|-------------|-------------------|------------------------|---------------------------------------|---------------|--------------------|
| GENERAL MEM | BERS - MALE | | | | |
| 20 | 0.0004 | 0.000 | 0.000 | 0.000 | 0.001 |
| 25 | 0.0004 | 0.000 | 0.000 | 0.000 | 0.001 |
| 30 | 0.0005 | 0.000 | 0.000 | 0.000 | 0.001 |
| 35 | 0.0007 | 0.000 | 0.000 | 0.000 | 0.001 |
| 40 | 0.0009 | 0.001 | 0.000 | 0.000 | 0.004 |
| 45 | 0.0010 | 0.001 | 0.000 | 0.000 | 0.004 |
| 50 | 0.0013 | 0.001 | 0.030 | 0.000 | 0.003 |
| 55 | 0.0019 | 0.001 | 0.065 | 0.000 | 0.004 |
| 60 | 0.0029 | 0.001 | 0.090 | 0.000 | 0.004 |
| 65 | 0.0041 | 0.001 | 0.250 | 0.000 | 0.005 |
| GENERAL MEM | BERS - FEMALE | | · · · · · · · · · · · · · · · · · · · | | |
| 20 | 0.0001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25 | 0.0001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 0.0002 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35 | 0.0003 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.0004 | 0.001 | 0.000 | 0.000 | 0.000 |
| 45 | 0.0005 | 0.002 | 0.000 | 0.000 | 0.001 |
| 50 | 0.0008 | 0.002 | 0.035 | 0.000 | 0.001 |
| 55 | 0.0012 | 0.002 | 0.035 | 0.000 | 0.001 |
| 60 | 0.0018 | 0.001 | 0.125 | 0.000 | 0.000 |
| 65 | 0.0025 | 0.002 | 0.300 | 0.000 | 0.001 |

¹ Lower rates assumed for members with less than 10 years of service, and higher rates assumed for members with at least 30 years of service.

The probabilities for each cause of separation represent the likelihood that a given member will separate at a particular age for the indicated reason. As an example, if the probability of separation of a male general member at age 20 is 0.036, that indicates that 3.6% of active general members are expected to separate from service during the year. Rates of Duty and Non-Duty Death are for active members who reach the given age during 2022.

Assumed Probabilities of Separation from Active Membership (Safety)

| AGE | NON-DUTY DEATH | ORDINARY DISABILITY | SERVICE RETIREMENT ¹ | DUTY DEATH | DUTY DISABILITY |
|-------------|-------------------|------------------------|------------------------------------|---------------|--------------------|
| SAFETY MEMB | ERS - MALE | | | | |
| 20 | 0.0004 | 0.000 | 0.050 | 0.0004 | 0.000 |
| 25 | 0.0004 | 0.000 | 0.050 | 0.0004 | 0.001 |
| 30 | 0.0005 | 0.000 | 0.050 | 0.0005 | 0.001 |
| 35 | 0.0006 | 0.000 | 0.050 | 0.0006 | 0.002 |
| 40 | 0.0007 | 0.000 | 0.050 | 0.0007 | 0.004 |
| 45 | 0.0008 | 0.000 | 0.050 | 0.0008 | 0.008 |
| 50 | 0.0010 | 0.001 | 0.175 | 0.0010 | 0.014 |
| 55 | 0.0015 | 0.001 | 0.175 | 0.0015 | 0.014 |
| SAFETY MEMB | ERS - FEMALE | | | | |
| 20 | 0.0002 | 0.000 | 0.050 | 0.0002 | 0.000 |
| 25 | 0.0002 | 0.000 | 0.050 | 0.0002 | 0.001 |
| 30 | 0.0003 | 0.000 | 0.050 | 0.0003 | 0.001 |
| 35 | 0.0004 | 0.000 | 0.050 | 0.0004 | 0.002 |
| 40 | 0.0005 | 0.000 | 0.050 | 0.0005 | 0.004 |
| 45 | 0.0006 | 0.000 | 0.050 | 0.0006 | 0.009 |
| 50 | 0.0008 | 0.001 | 0.175 | 0.0008 | 0.014 |
| 55 | 0.0012 | 0.001 | 0.175 | 0.0012 | 0.014 |

¹ Lower rates assumed for members with less than 20 years of service.

Salary Increase, Termination, and Withdrawal Assumptions

| | SALARY IN | CREASE | WITHD | RAWAL | TERMIN | ATION |
|---------------------|-----------|--------|---------|--------|----------------------|---------------------|
| YEARS OF SERVICE | GENERAL | SAFETY | GENERAL | SAFETY | GENERAL ¹ | SAFETY ² |
| 0 | 0.1124 | 0.1330 | 0.100 | 0.060 | 0.100 | 0.060 |
| 1 | 0.1021 | 0.1330 | 0.065 | 0.035 | 0.065 | 0.035 |
| 2 | 0.0712 | 0.0815 | 0.050 | 0.025 | 0.050 | 0.025 |
| 3 | 0.0712 | 0.0815 | 0.039 | 0.025 | 0.039 | 0.025 |
| 4 | 0.0506 | 0.0815 | 0.039 | 0.025 | 0.039 | 0.025 |
| 5 | 0.0506 | 0.0532 | 0.019 | 0.010 | 0.058 | 0.040 |
| 6 | 0.0506 | 0.0429 | 0.019 | 0.006 | 0.058 | 0.024 |
| 7 | 0.0506 | 0.0429 | 0.011 | 0.004 | 0.034 | 0.016 |
| 8 | 0.0429 | 0.0429 | 0.011 | 0.004 | 0.034 | 0.016 |
| 9 | 0.0429 | 0.0429 | 0.009 | 0.004 | 0.028 | 0.016 |
| 10 | 0.0403 | 0.0429 | 0.009 | 0.004 | 0.028 | 0.016 |
| 11 | 0.0403 | 0.0429 | 0.007 | 0.004 | 0.021 | 0.016 |
| 12 | 0.0403 | 0.0429 | 0.007 | 0.004 | 0.021 | 0.016 |
| 13 | 0.0403 | 0.0429 | 0.006 | 0.004 | 0.019 | 0.016 |
| 14 | 0.0403 | 0.0429 | 0.006 | 0.004 | 0.019 | 0.016 |
| 15 | 0.0352 | 0.0429 | 0.003 | 0.002 | 0.023 | 0.011 |
| 16 | 0.0352 | 0.0429 | 0.003 | 0.002 | 0.023 | 0.011 |
| 17 | 0.0352 | 0.0429 | 0.003 | 0.002 | 0.023 | 0.011 |
| 18 | 0.0352 | 0.0429 | 0.003 | 0.002 | 0.023 | 0.011 |
| 19 | 0.0352 | 0.0429 | 0.003 | 0.002 | 0.023 | 0.011 |
| 20 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 21 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 22 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 23 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 24 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 25 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 26 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 27 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 28 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 29 | 0.0352 | 0.0429 | 0.001 | 0.000 | 0.009 | 0.000 |
| 30+ | 0.0352 | 0.0429 | 0.000 | 0.000 | 0.000 | 0.000 |

¹ 75% of vested terminated General Members with less than five years of service, 25% of those with five to 14 years of service, and 40% of those with more than 15 years of service, are assumed to be reciprocal.

² 67% of vested terminated Safety Members with less than five years of service, and 50% of those with more than five years of service, are assumed to be reciprocal.

Actuarial Value of Assets and Reserves

The Actuarial Value of Assets represents a "smoothed" value developed by the actuary to reduce contribution volatility, which could develop due to short-term fluctuations in the Market Value of Assets. For this System, the Actuarial Value of Assets is calculated by recognizing the deviation of actual investment returns compared to the expected return over a five-year period.

The dollar amount of the expected return on the Market Value of Assets is determined using the actual contributions, administrative expense, and benefit payments during the year. Any difference between this amount and the actual investment earnings is considered a gain or loss. However, in no event will the Actuarial Value of Assets be less than 80% or more than 120% of market value on the valuation date. The following table shows the development of the actuarial asset value.

| | D | EVELOPMEN | NT OF ACT | UARIAL VA | LUE OF ASS | SETS AS OF | JANUARY 1, | 2022 | | |
|------|---|---|-------------------|------------------|-----------------------|------------------|------------------------|-------------------|--------------------------|--|
| | (A) | (A) (B) (C) (D) (E) (F) (G)=(F)-(E) (F) | | | | | | | | |
| YEAR | CONTRIBUTIONS | BENEFITS | ADMIN. EXPENSE | FUND TRANSFER | EXPECTED RETURN | ACTUAL RETURN | ADDITIONAL EARNINGS | NOT RECOGNIZED | UNRECOGNIZED EARNINGS | |
| 2018 | \$ 244,135,523 | \$221,443,667 | \$4,865,082 | \$ 324,269 | \$209,406,849 | \$(56,397,598) | \$(265,804,447) | 20% | \$(53,160,889) | |
| 2019 | 263,627,444 | 236,350,072 | 4,931,163 | 299,014 | 206,793,106 | 380,674,528 | 173,881,422 | 40% | 69,552,569 | |
| 2020 | 281,269,983 | 251,551,677 | 4,536,455 | 172,041 | 227,983,829 | 276,996,530 | 49,012,701 | 60% | 29,407,621 | |
| 2021 | 350,118,275 | 265,965,599 | 4,639,439 | 270,570 | 251,024,692 | 572,291,948 | 321,267,256 | 80% | 257,013,805 | |
| (1) | Total Unrecoc | inized Dollars | | | | | | | 302,813,106 | |
| (2) | - | of Assets as of | December 3 | 1 2021 | | | | | 4,198,788,004 | |
| (3) | | | | | 1, 2021: [(2) – (| 1)] | | | 3,895,974,898 | |
| (4) | Corridor Limit | | | | ., ((| .,1 | | | 0,000,010,0000 | |
| () | | a. 80% of Ne | t Fair Value | | | | | | 3,359,030,403 | |
| | | b. 120% of N | et Fair Value | | | | | | 5,038,545,605 | |
| (5) | Actuarial Valu | e of Assets aft | er Corridor | | | | | | 3,895,974,898 | |
| (6) | Ratio of Actua | arial Value to M | arket Value [(| (5) ÷ (2)] | | | | | 92.79% | |
| (7) | Market Stabili | zation Designa | tion [(2) – (5) |)] | | | | | 302,813,106 | |
| (8) | Special (Non | Valuation) Rese | erves: | | | | | | | |
| | | Class Action S | Settlement – | Post 4/1/198 | 2 | | | | 75,271 | |
| | | Contingency | | | | | | | 43,633,169 | |
| | Total Special Reserves | | | | | | | | 43,708,440 | |
| (9) | ACTUARIAL VALUE OF ASSETS FOR THE FUNDING RATIO: [(5) – (8)] \$ 3 | | | | | | | | 3,852,266,458 | |
| (10) | 0) ADDITIONAL COUNTY CONTRIBUTION RESERVES \$ 184,20 | | | | | | | | 184,202,449 | |
| (11) | | ACT | UARIAL VALU | JE OF ASSETS | USED FOR CAI CONTR | LCULATING THI | | \$ | 3,668,064,009 | |

Summary of Major Plan Provisions

MEMBERSHIP

Membership is mandatory upon appointment to a full-time, permanent position with the County or other participating employer. Elected officials and persons who are age 60 or older at the time of employment in a position requiring membership in SJCERA may irrevocably elect to waive membership.

Tier 1 - Employees who established and maintain membership in SJCERA prior to January 1, 2013, and other eligible employees as defined by law, participate in the defined benefit formula that was in place before January 1, 2013, termed "SJCERA Tier I."

Tier 2 - Employees who establish membership in SJCERA on or after January 1, 2013, who are subject to the provisions of the Public Employees' Pension Reform Act of 2013 (Article 4 (commencing with Section 7522, et seq.) of Chapter 21 of Division 7 of Title 1 of the Government Code), also known as "PEPRA," participate in the defined benefit formula prescribed by PEPRA for these employees, termed "SJCERA Tier II."

FINAL AVERAGE SALARY

For Tier 1 members, final compensation for purposes of computing a retirement allowance is the average monthly salary for the highest twelve consecutive months of employment. In addition to base salary, final compensation may include other items defined as compensation earnable for retirement purposes. Overtime pay is excluded.

For Tier 2 members, final compensation for purposes of computing a retirement allowance is the average monthly salary for the highest thirty-six consecutive months of employment. In addition to base salary, final compensation may include other items defined as pensionable compensation. Allowances, incentives, employer contributions to deferred compensation, annual leave cash outs and overtime pay are excluded.

CONTRIBUTIONS

Member contributions are based upon membership category, General or Safety, are expressed as a percentage of covered payroll, and are deducted from employees' earnings on a biweekly basis. Collective bargaining agreements and employment resolutions may also specify terms that affect members' retirement contributions.

Tier 1 members pay contributions also based upon the age at which the employee entered SJCERA membership. Members of Tier 1 employed prior to March 7, 1973, and all Safety members of Tier 1 stop paying member contributions when they have 30 years of service credit, but continue to accrue retirement service credit for subsequent active employment subject to membership.

Tier 2 members pay contributions equal to one-half of the normal cost of their applicable benefits. General and Safety members pay different rates.

Summary of Major Plan Provisions

Member contributions are credited with interest semi-annually. Upon termination of employment prior to retirement, a member may elect to withdraw his or her accumulated member contributions and interest, terminating SJCERA membership and forfeiting all related rights and benefits.

DEFERRED VESTED BENEFIT

A member is eligible for Deferred Vested Benefit upon termination of employment after earning five years of retirement service credit, including reciprocity service from another system. The Member must leave accumulated member contributions with interest on deposit with SJCERA.

SERVICE RETIREMENT

TIER 1

For retirements effective January 1, 2001 and later, retirement benefits are as provided under Sections 31676.14 and 31664.1 of the County Employees' Retirement Law.

A Tier member may retire for service at age 50 or older with five years of service credit, and at least ten years has elapsed since the date of membership. A General Member may retire at any age with 30 or more years of service. A Safety Member may retire at any age with 20 or more years of service.

The benefit formula for General Tier I members is 2.6 percent of final compensation for each year of service credit at age 62. The formula for Safety Tier 1 members is 3.0 percent of final compensation for each year of service credit at age 50. Social Security integration reduces benefits by one-third on the first \$350 of monthly final average salary. The maximum benefit payable is the lesser of 100 percent of final average salary or the federal annual compensation limit under Internal Revenue Code Section 401(a)(17), if applicable.

TIER 2

Tier 2 Members – Retirement benefits are as provided under Sections 7522.20 and 7522.25(d) of PEPRA.

A Tier 2 member may retire for service with five years of service credit upon attaining the minimum retirement age: Age 52 for General Members, and Age 50 for Safety Members.

The benefit formula for General Tier 2 members is up to 2.5 percent of final compensation for each year of service credit at age 67. The formula for Safety Tier 2 members is 2.7 percent of final compensation for each year of service credit at age 57. PEPRA specifies the maximum annual compensation that may be used to calculate retirement benefits. A lower limit applies to members whose service under SJCERA is also covered by Social Security, and a higher limit applies to members whose service under SJCERA is not covered by Social Security. These limits are adjusted annually based on changes in the Consumer Price Index.

Any member of SJCERA, regardless of benefit tier, may retire at age 70 with no minimum service credit requirement.

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Summary of Major Plan Provisions

DISABILITY RETIREMENT

Members with five years of service credit, regardless of age, are eligible to apply for a non-service connected disability retirement. If granted, the benefit is the greater of:

- 1) 1.5 percent, for General Members, of final average salary at disability multiplied by years of Credited Service at disability. 1.8 percent for final average salary for Safety Members.
- 1.5 percent, for General Members, 1.8 percent for Safety Members, of final average salary at disability multiplied by years of Credited Service projected to age 65 for General Members, and age 55 for Safety Members, not to exceed one-third of final average salary.
- 3) If the Member is eligible at disability for a Service Retirement Benefit, the Service Retirement Benefit accrued on the date of disability.

Any active member, regardless of years of service credit, is eligible to apply for a serviceconnected disability retirement. If granted, the benefit is the greater of:

- 1) 50 percent of the member's final average salary, or
- 2) If the member is eligible at disability for a Service Retirement Benefit the Service Retirement Benefit accrued on the date of disability.

DEATH BENEFITS

Basic Death Benefit - The beneficiary of a member who dies prior to attaining five years of credited service receives a refund of the member's accumulated contributions and interest plus one month's salary for each full year of service, up to a maximum of six months' salary.

If the death occurs after the member attained five years of credited service and is not the result of a service-related injury or disease, the surviving spouse or minor children may elect to receive, in lieu of the Basic Death Benefit, either 60 percent of the retirement allowance to which the deceased member would have been entitled had the member retired for service or non-service-connected disability on the date of death, or a lump sum payment of six months' salary and a reduced monthly retirement benefit. The monthly allowance payable to a minor child is discontinued when the child marries or attains age 18, or age 22 if a full-time student.

Upon the death of a retiree, the beneficiary may receive a continuance of 100 percent, 60 percent, or 50 percent of the deceased member's retirement benefit as determined by the type of retirement and optional settlement elected by the member. The beneficiary also receives a \$5,000 lump-sum death benefit.

COST-OF-LIVING BENEFITS

All monthly allowances are eligible for an annual cost-of-living adjustment (COLA) based on the change in the Consumer Price Index (CPI) for the San Francisco-Oakland-Hayward area for the previous calendar year, up to a maximum of 3.0 percent. When the CPI exceeds 3.0 percent in any year, the difference between the actual change in CPI (rounded to the nearest one-half percent) and the 3.0 percent ceiling is "accumulated" for future years when the change is less than 3.0 percent.



Summary of Statistical Data

This section of the Annual Comprehensive Financial Report provides additional historical perspective, context, and detail in order to provide a more comprehensive understanding of this year's financial statements, note disclosures, and supplementary information.

This section provides supplementary information according to Governmental Accounting Standards Board (GASB) Statement No. 44, which establishes and modifies required data by providing multi-year trend information to provide an understanding of how the organization's financial activities and positions have changed over time. The Statistical Information is presented to include two main categories required by pension plans: Financial Trends Information and Operating Information.

FINANCIAL TRENDS

Ten-year trend information is presented to assist readers in understanding how the Plan's financial position has changed over time and provides historical information as to total plan net position and total changes in plan net position, the Plan's additions by source, deductions by type, benefits and refunds by type (service retirement, disability retirement, survivors/beneficiaries benefits, refunds and death benefits).

- Schedule of Fiduciary Net Position (page 93)
- Schedule of Changes in Fiduciary Net Position (page 94)
- Schedule of Revenues by Source (page 95)
- Schedule of Expenses by Type (page 95)
- Schedule of Benefit and Refund Expenses by Type (page 96)
- Schedule of Retired Members by Type (page 97)

OPERATING INFORMATION

Operating Information is intended to provide information about operations and resources to assist readers in using financial statement information to understand and assess a government's economic condition. The following schedules present the average monthly benefit, and average final salary, organized in five-year increments of credit service and since retirement, as well as the participating employers and their corresponding covered employees.

- Schedule of Average Monthly Benefit Payments by Number of Years of Credited Service (pages 98-102)
- Schedule of Average Monthly Benefit Payments by Number of Years Since Retirement (pages 103-105)
- Schedule of Participating Employers (page 106)

Schedule of Fiduciary Net Position

FOR THE LAST TEN FISCAL YEARS ENDED DECEMBER 31

| | | | | (| (DOLLARS IN | THOUSANDS |) | | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 |
| ASSETS | | | | | | | | | | |
| Cash and Cash Equivalents | \$ 266,916 | \$ 408,412 | 3,441,304 | \$ 118,801 | \$ 210,876 | \$ 185,216 | \$ 225,343 | \$ 226,912 | \$ 250,500 | \$ 169,701 |
| Receivables | 18,169 | 61,320 | 14,581 | 17,193 | 13,747 | 8,862 | 10,524 | 8,930 | 12,081 | 28,49 |
| Investments | 3,660,702 | 3,893,690 | 3,389,474 | 3,158,399 | 2,701,519 | 2,773,701 | 2,463,816 | 2,328,265 | 2,371,380 | 2,256,909 |
| Prepaid Expenses | 113 | 100 | 141 | 82 | 85 | 90 | 127 | 112 | 86 | 82 |
| Equipment and Fixtures, Net | 3,143 | 154 | 136 | 180 | 212 | 74 | 116 | 192 | 315 | 427 |
| TOTAL ASSETS | \$3,949,042 | \$4,363,676 | \$3,634,377 | \$3,294,655 | \$2,926,439 | \$2,967,943 | \$2,699,926 | \$2,564,411 | \$2,634,362 | \$2,455,610 |
| LIABILITIES | | | | | | | | | | |
| Securities Lending – Cash Collateral | \$ 2,354 | \$ 78,776 | \$ 83,589 | \$ 46,038 | \$ 81,063 | \$ 86,901 | \$ 141,349 | \$ 147,106 | \$ 164,195 | \$ 107,126 |
| Securities Purchased, Not Paid | 125,565 | 84,977 | 2,987 | 3,402 | 2,418 | 173 | 2,542 | 2,739 | 1,671 | 5,433 |
| Accrued Expenses and Other Payables | 2,910 | 1,127 | 1,076 | 762 | 1,723 | 1,475 | 1,170 | 1,306 | 2,138 | 1,538 |
| Securities Lending Interest and | | | | | | | | | | |
| Other Expense | 461 | 8 | 13 | 91 | 193 | 105 | 63 | 17 | 8 | - |
| TOTAL LIABILITIES | \$ 131,290 | \$ 164,888 | \$ 87,665 | \$ 50,293 | \$ 85,397 | \$ 88,654 | \$ 145,124 | \$ 151,168 | \$ 168,012 | \$ 114,097 |
| FIDUCIARY NET POSITION RESTRICTED FOR PENSION BENEFITS | \$3,817,752 | \$4 198 788 | \$3 546 712 | \$3 244 362 | \$2 841 042 | \$2 879 289 | \$2 554 802 | \$2 413 243 | \$2,466,350 | \$2 341 513 |

Schedule of Changes in Fiduciary Net Position

FOR THE LAST TEN FISCAL YEARS ENDED DECEMBER 31

| | | | | (| DOLLARS IN | THOUSANDS |) | | | |
|--|--------------|------------|------------|------------|------------|-------------|------------|------------|-------------|------------|
| | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 |
| ADDITIONS | | | | | | | | | | |
| Member Contributions | \$ 47,405 | \$ 43,456 | \$ 40,569 | \$ 38,099 | \$ 35,378 | \$ 33,635 | \$ 30,117 | \$ 29,027 | \$ 27,368 | \$ 22,690 |
| Employer Contributions | 269,080 | 306,662 | 240,701 | 225,529 | 208,758 | 200,052 | 159,123 | 150,372 | 136,686 | 119,494 |
| Investment Income | (412,841) | 571,306 | 276,853 | 380,600 | (56,466) | 299,882 | 151,031 | (47,449) | 110,651 | 198,173 |
| Miscellaneous | 82 | 986 | 143 | 74 | 68 | 78 | 84 | 109 | 77 | 72 |
| Transfers Between Plans | 225 | 271 | 172 | 299 | 324 | 365 | 294 | 379 | 19,969 | 204 |
| TOTAL ADDITIONS | \$ (96,050) | \$ 922,681 | \$ 558,438 | \$ 644,601 | \$ 188,062 | \$ 534,012 | \$ 340,649 | \$ 132,438 | \$ 294,751 | \$ 340,633 |
| DEDUCTIONS | 5 | | | | | | | | | |
| Benefits | \$ 273,184 | \$ 261,980 | \$ 248,063 | \$ 233,405 | \$ 219,079 | \$ 203,109 | \$ 192,732 | \$ 179,585 | \$ 164,335 | \$ 154,233 |
| Refunds | 6,179 | 3,985 | 3,985 | 3,489 | 2,945 | 2,365 | 2,298 | 1,987 | 1,884 | 1,536 |
| Administrative Expenses | 5,622 | 4,640 | 4,640 | 4,536 | 4,931 | 4,865 | 4,119 | 4,370 | 4,076 | 4,043 |
| TOTAL DEDUCTIONS | \$ 284,985 | \$ 270,605 | \$ 270,605 | \$ 256,088 | \$ 241,281 | \$ 226,309 | \$ 209,526 | \$ 199,089 | \$ 185,545 | \$ 169,914 |
| | | | | | | | | | | · |
| CHANGE IN FIDUCIARY NET POSITION | \$ (381,035) | \$ 652,076 | \$ 652,076 | \$ 302,350 | \$ 403,320 | \$ (38,247) | \$ 324,486 | \$ 141,560 | \$ (53,107) | \$ 124,837 |

Schedules of Revenues by Source and Expenses by Type

SCHEDULE OF REVENUES BY SOURCE

| YEAR ENDED | MEMBER CONTRIBUTIONS | EMPLOYER CONTRIBUTIONS | INVESTMENT INCOME | MISCELLANEOUS | TRANSFER BETWEEN PLANS | TOTAL |
|---------------|-------------------------|---------------------------|----------------------|---------------|---------------------------|-----------------|
| 2022 | \$ 47,405,308 | \$ 269,080,047 | \$ (412,841,266) | \$ 81,540 | \$ 224,628 | \$ (96,049,743) |
| 2021 | 43,455,640 | 306,662,635 | 571,305,566 | 986,382 | 270,570 | 922,680,793 |
| 2020 | 40,568,995 | 240,700,988 | 276,853,178 | 143,352 | 172,041 | 558,438,554 |
| 2019 | 38,098,688 | 225,528,756 | 380,600,341 | 74,187 | 299,014 | 644,600,986 |
| 2018 | 35,377,951 | 208,757,572 | (56,465,738) | 68,140 | 324,269 | 188,062,194 |
| 2017 | 33,634,906 | 200,051,742 | 299,882,451 | 78,242 | 364,714 | 534,012,055 |
| 2016 | 30,117,408 | 159,122,523 | 151,031,174 | 83,614 | 293,779 | 340,648,498 |
| 2015 | 29,026,901 | 150,371,556 | (47,449,240) | 109,490 | 378,969 | 132,437,676 |
| 2014 | 27,367,908 | 136,686,133 | 110,651,111 | 77,192 | 19,968,779 | 294,751,123 |
| 2013 | \$ 22,689,882 | \$ 119,494,319 | \$ 198,172,396 | \$ 72,467 | \$ 204,375 | \$ 340,633,439 |

SCHEDULE OF EXPENSES BY TYPE

| YEAR ENDED | BENEFITS | REFUNDS | AI | DMINISTRATIVE EXPENSES | | TOTAL |
|---------------|-------------------|-----------------|----|---------------------------|---|----------------|
| 2022 | \$ 273,184,446 | \$ 6,179,349 | \$ | 5,621,704 | ę | \$ 284,985,499 |
| 2021 | 261,980,166 | 3,985,433 | | 4,639,439 | | 270,605,038 |
| 2020 | 248,063,135 | 3,488,542 | | 4,536,455 | | 256,088,132 |
| 2019 | 233,405,209 | 2,944,863 | | 4,931,163 | | 241,281,235 |
| 2018 | 219,078,954 | 2,364,713 | | 4,865,082 | | 226,308,749 |
| 2017 | 203,109,466 | 2,297,504 | | 4,118,578 | | 209,525,548 |
| 2016 | 192,732,311 | 1,986,866 | | 4,369,744 | | 199,088,921 |
| 2015 | 179,585,136 | 1,883,777 | | 4,075,745 | | 185,544,658 |
| 2014 | 164,335,273 | 1,535,698 | | 4,042,986 | | 169,913,957 |
| 2013 | \$ 154,232,885 | \$ 1,168,934 | \$ | 4,134,716 | ę | \$ 159,536,535 |

Schedule of Benefit and Refund Expenses by Type

| YEAR | PLAN | F | SERVICE RETIREMENT | | DISABILITY ETIREMENT | | SURVIVORS AND | F | REFUNDS OF MEMBERS | | DEATH | | |
|------|---------|-----|-----------------------|----------|-------------------------|----|------------------|--------|-----------------------|----|----------|----|-------------|
| END | ТҮРЕ | | PAYROLL | | PAYROLL | B | ENEFICIARIES | CO | NTRIBUTIONS | | BENEFITS | | TOTAL |
| | General | ¢ | 173,221,213 | Ś | 10,233,815 | \$ | 14,231,986 | \$ | 5,918,057 | \$ | 697,572 | \$ | 205,302,643 |
| | Safety | Ŷ | 53,070,783 | Ŷ | 12,945,381 | Ŷ | 7,721,196 | Ŷ | 261,292 | Ŷ | 62,500 | Ŷ | 74,061,152 |
| 2022 | TOTAL | Ś | 227,291,996 | \$ | 23,179,196 | \$ | 21,953,182 | \$ | 6,179,349 | \$ | 760,072 | Ś | 279,363,795 |
| | | | | | | Ŧ | ,, | | -,, | Ŧ | | | |
| | General | \$ | 166,538,591 | \$ | 9,970,090 | \$ | 13,610,293 | \$ | 3,346,955 | \$ | 523,168 | \$ | 193,989,097 |
| | Safety | | 51,442,541 | | 12,692,566 | | 7,117,689 | | 638,478 | | 85,228 | | 71,976,502 |
| 2021 | TOTAL | \$ | 217,981,132 | \$ | 22,662,656 | \$ | 20,727,982 | \$ | 3,985,433 | \$ | 608,396 | \$ | 265,965,599 |
| | | | | | | | | | | | | | |
| | General | \$ | 156,370,175 | \$ | 10,131,890 | \$ | 12,767,095 | \$ | 3,097,776 | \$ | 723,834 | \$ | 183,090,770 |
| | Safety | | 49,041,768 | | 12,478,296 | | 6,465,761 | | 390,766 | | 84,316 | | 68,460,907 |
| 2020 | TOTAL | \$ | 205,411,943 | \$ | 22,610,186 | \$ | 19,232,856 | \$ | 3,488,542 | \$ | 808,150 | \$ | 251,551,677 |
| | General | Ś | 146,798,807 | Ś | 9,654,798 | \$ | 11,818,934 | \$ | 2,756,097 | \$ | 583,768 | \$ | 171,612,404 |
| | Safety | \$ | 46,270,186 | \$ | 12,185,339 | Ş | 6,008,377 | Ş | 188,766 | Ş | 85,000 | Ş | 64,737,668 |
| 2019 | - | 6 | 193.068.993 | 6 | | 6 | | 6 | | ė | 668.768 | 6 | |
| 2019 | TOTAL | \$ | 193,068,993 | \$ | 21,840,137 | \$ | 17,827,311 | \$ | 2,944,863 | \$ | 668,768 | \$ | 236,350,072 |
| | General | Ś | 137,812,569 | \$ | 9,134,223 | \$ | 11,265,536 | \$ | 1,975,078 | \$ | 565,401 | \$ | 160.752.807 |
| | Safety | Ŧ | 42,762,050 | Ŧ | 11,814,374 | • | 5,667,301 | • | 389,635 | • | 57,500 | • | 60,690,860 |
| 2018 | TOTAL | Ś | 180,574,619 | Ś | 20,948,597 | Ś | 16,932,837 | Ś | 2,364,713 | Ś | 622,901 | Ś | 221,443,667 |
| | TOTAL | Ŷ | 100,014,015 | Ŷ | 20,340,031 | Ŷ | 10,502,001 | Ŷ | 2,004,110 | Ŷ | 022,501 | Ŷ | 221,440,001 |
| | General | \$ | 126,046,097 | \$ | 8,807,111 | \$ | 10,729,415 | \$ | 2,108,790 | \$ | 656,206 | \$ | 148,347,619 |
| | Safety | | 40,336,132 | | 11,088,325 | | 5,401,180 | | 188,714 | | 45,000 | | 57,059,351 |
| 2017 | TOTAL | \$ | 166,382,229 | \$ | 19,895,436 | \$ | 16,130,595 | \$ | 2,297,504 | \$ | 701,206 | \$ | 205,406,970 |
| | | | | | | | | | | | | | |
| | General | \$ | 118,912,565 | \$ | 8,650,277 | \$ | 10,544,504 | \$ | 1,840,117 | \$ | 563,769 | \$ | 140,511,232 |
| | Safety | | 38,262,562 | | 10,660,155 | | 5,083,479 | | 146,749 | | 55,000 | | 54,207,945 |
| 2016 | TOTAL | \$ | 157,175,127 | \$ | 19,310,432 | \$ | 15,627,983 | \$ | 1,986,866 | \$ | 618,769 | \$ | 194,719,177 |
| | | | | | | | | | | | | | |
| | General | \$ | 110,694,430 | \$ | 8,608,271 | \$ | 9,864,262 | \$ | 1,584,403 | \$ | 449,742 | \$ | 131,201,108 |
| | Safety | | 35,096,063 | | 10,179,970 | | 4,580,169 | | 299,374 | | 112,229 | | 50,267,805 |
| 2015 | TOTAL | \$ | 145,790,493 | \$ | 18,788,241 | \$ | 14,444,431 | \$ | 1,883,777 | \$ | 561,971 | \$ | 181,468,913 |
| | General | Ś | 100,668,155 | \$ | 8,493,931 | \$ | 9,401,576 | \$ | 1,427,885 | \$ | 548,606 | ¢ | 120,540,152 |
| | Safety | \$ | 31,407,516 | \$ | 9,555,857 | Ş | 4,184,681 | \$ | 1,427,885 | Ş | 74,951 | \$ | 45,330,819 |
| 2014 | TOTAL | \$ | 132,075,671 | \$ | 18,049,788 | \$ | 13,586,257 | \$ | 1,535,698 | \$ | 623,557 | \$ | 165,870,971 |
| | | , Y | | <u> </u> | 10,040,100 | Ŷ | 10,000,201 | · Y | 1,000,000 | Ŷ | 020,001 | Ŷ | |
| | General | \$ | 95,109,549 | \$ | 5,667,332 | \$ | 8,876,109 | \$ | 900,756 | \$ | 572,733 | \$ | 111,126,479 |
| | Safety | | 31,116,346 | | 8,938,667 | | 3,912,149 | | 268,178 | | 40,000 | | 44,275,339 |
| 2013 | TOTAL | \$ | 126,225,895 | \$ | 14,605,999 | \$ | 12,788,257 | \$ | 1,168,934 | \$ | 612,733 | \$ | 155,401,818 |

Schedule of Retired Members by Type

| ACTUARIAL VALUATION DATE | PLAN TYPE | MEMBERS WITH SERVICE RETIREMENTS | MEMBERS WITH DISABILITY RETIREMENTS | SURVIVORS AND BENEFICIARIES | TOTAL |
|-----------------------------|-----------|--|---|-----------------------------------|-------|
| | General | 4,289 | 411 | 695 | 5,39 |
| | Safety | 695 | 223 | 229 | 1,14 |
| 01/01/2022 | TOTAL | 4,984 | 634 | 924 | 6,54 |
| | General | 4,171 | 415 | 664 | 5,25 |
| | Safety | 674 | 225 | 212 | 1,11 |
| 01/01/2021 | TOTAL | 4,845 | 640 | 876 | 6,36 |
| | General | 4,056 | 416 | 653 | 5,12 |
| | Safety | 647 | 229 | 207 | 1,08 |
| 01/01/2020 | TOTAL | 4,703 | 645 | 860 | 6,20 |
| | General | 3,969 | 406 | 635 | 5,01 |
| | Safety | 619 | 227 | 197 | 1,04 |
| 01/01/2019 | TOTAL | 4,588 | 633 | 832 | 6,05 |
| | General | 3,789 | 402 | 615 | 4,80 |
| | Safety | 600 | 221 | 195 | 1,01 |
| 01/01/2018 | TOTAL | 4,389 | 623 | 810 | 5,82 |
| | General | 3,655 | 399 | 603 | 4,65 |
| | Safety | 572 | 215 | 184 | 97 |
| 01/01/2017 | TOTAL | 4,227 | 614 | 787 | 5,62 |
| | General | 3,506 | 390 | 598 | 4,49 |
| | Safety | 554 | 210 | 177 | 94 |
| 01/01/2016 | TOTAL | 4,060 | 600 | 775 | 5,43 |
| | General | 3,385 | 393 | 580 | 4,35 |
| | Safety | 524 | 205 | 162 | 89 |
| 01/01/2015 | TOTAL | 3,909 | 598 | 742 | 5,24 |
| | General | 3,227 | 388 | 557 | 4,17 |
| | Safety | 516 | 199 | 154 | 86 |
| 01/01/2014 | TOTAL | 3,743 | 587 | 711 | 5,04 |
| | General | 3,113 | 387 | 541 | 4,04 |
| | Safety | 514 | 195 | 147 | 85 |
| 01/01/2013 | TOTAL | 3,627 | 582 | 688 | 4,89 |

Figures are extracted from actuarial reports which include individuals receiving divorce settlement payments. The most current Actuarial Valuation was conducted as of January 1, 2022 for the period ending December 31, 2021. The information in subsequent years is currently not available.

| | | | | NUM | BER | OF YEAR | IS O | F COUNT | y se | ERVICE CI | RED | п | | |
|----------------------------|----|-------|----|--------|-----|---------|------|---------|------|-----------|----------|-------|-----|--------|
| RETIREMENT EFFECTIVE DATE | | 0-4 | | 5-9 | - | 10-14 | | 15-19 | 2 | 20-24 | | 25-29 | 30 | & OVER |
| 2022 | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 579 | \$ | 1,098 | \$ | 1,785 | \$ | 3,180 | \$ | 3,487 | \$ | 4,682 | \$ | 7,000 |
| Average Final Compensation | \$ | 9,120 | \$ | 6,728 | \$ | 6,050 | \$ | 7,767 | \$ | 6,633 | \$ | 6,717 | \$ | 8,621 |
| Count | | 21 | | 54 | | 24 | | 29 | | 42 | | 26 | | 35 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 1,497 | \$ | 2,207 | \$ | 2,639 | \$ | 4,947 | \$ | 5,063 | \$ | 7,564 | \$ | 14,048 |
| Average Final Compensation | \$ | 7,765 | \$ | 6,699 | \$ | 7,528 | \$ | 9,283 | \$ | 8,414 | \$ | 9,105 | \$ | 14,406 |
| Count | | 3 | | 3 | | 6 | | 5 | | 9 | | 5 | | 3 |
| Survivors / DROs | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 675 | \$ | 879 | \$ | 952 | \$ | 1,764 | \$ | 3,012 | \$ | 1,389 | \$ | 3,323 |
| Average Final Compensation | \$ | 0 | \$ | 4,684 | \$ | 3,290 | \$ | 4,536 | \$ | 7,306 | \$ | 2,896 | \$ | 4,286 |
| Count | | 1 | | 13 | | 5 | | 6 | | 5 | | 2 | | 6 |
| SAFETY MEMBERS | | | | | | | 1 | | | | | | | |
| Average Benefits | \$ | 2,642 | \$ | 2,099 | \$ | 0 | \$ | 408 | \$ | 2,356 | \$ | 0 | \$ | 0 |
| Average Final Compensation | \$ | 2,560 | \$ | 8,335 | \$ | 0 | \$ | 700 | \$ | 3,823 | \$ | 0 | \$ | 0 |
| Count | | 1 | | 1 | | 0 | | 1 | | 1 | | 0 | | 0 |
| 2021 | | | | | | | | | | | 1 | | | |
| Retirees | _ | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | _ | | _ | |
| Average Benefits | Ś | 215 | Ś | 1,150 | \$ | 2,109 | \$ | 2,548 | \$ | 3,599 | Ś | 4,735 | Ś | 5,977 |
| Average Final Compensation | \$ | 8,113 | Ś | 6,542 | Ś | 7,236 | Ś | 6,571 | Ś | 6,677 | Ś | 7.645 | · · | 7,427 |
| Count | | 21 | Ť | 30 | • | 37 | • | 38 | • | 43 | • | 28 | - | 45 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 857 | \$ | 2,288 | \$ | 2,916 | \$ | 3,799 | \$ | 5,049 | \$ | 6,749 | \$ | 7,937 |
| Average Final Compensation | Ś | 9,706 | \$ | 11,850 | | 7,852 | · · | 6,954 | | 7,814 | <u> </u> | 9,398 | - | 8,663 |
| Count | | 5 | | 6 | | 2 | | 9 | | 20 | | 4 | - | 1 |
| Survivors / DROs | | | | | | | | | 1 | | | | 1 | |
| GENERAL MEMBERS | | | _ | | _ | | _ | | _ | | _ | | | |
| Average Benefits | \$ | 995 | \$ | 505 | \$ | 1,203 | \$ | 1,561 | \$ | 1,902 | \$ | 3,872 | \$ | 2,573 |
| Average Final Compensation | \$ | 3,852 | \$ | 3,789 | \$ | 5,463 | | 4,495 | | 3,647 | | 6,175 | - | 4,831 |
| Count | | 7 | | 8 | | 6 | | 9 | | 6 | | 9 | | 6 |
| SAFETY MEMBERS | I | | | | | | | | | | | | | |
| Average Benefits | \$ | 1,312 | \$ | 1,366 | \$ | 2,295 | \$ | 3,103 | \$ | 0 | \$ | 5,702 | \$ | 6,523 |
| Average Final Compensation | \$ | 9,117 | | 5,396 | | 4,830 | - | 4,585 | | 0 | \$ | 7,451 | | 6,523 |
| Count | | 3 | | 1 | | . 3 | | 3 | | 0 | | 5 | - | . 8 |

| | | | | NUM | BER | OF YEAR | IS O | F COUNT | Y SE | RVICE CI | RED | п | | |
|----------------------------|----------|-------|----|-------|-----|---------|----------|---------|------|----------|-----|--------|----|--------|
| RETIREMENT EFFECTIVE DATE | | 0-4 | | 5-9 | 1 | 0-14 | | 15-19 | 2 | 20-24 | | 25-29 | 30 | & OVEF |
| 2020 | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 344 | \$ | 1,373 | \$ | 1,926 | \$ | 3,086 | \$ | 3,108 | \$ | 4,527 | \$ | 6,734 |
| Average Final Compensation | \$ | 7,961 | \$ | 9,038 | \$ | 6,637 | \$ | 6,948 | \$ | 5,859 | \$ | 6,790 | \$ | 7,968 |
| Count | | 21 | | 32 | | 36 | | 34 | | 33 | | 26 | | 50 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 430 | \$ | 1,750 | \$ | 2,749 | \$ | 3,265 | \$ | 4,763 | \$ | 7,209 | \$ | 13,386 |
| Average Final Compensation | \$ | 9,072 | \$ | 6,259 | \$ | 6,672 | \$ | 6,689 | \$ | 7,515 | \$ | 9,083 | \$ | 13,811 |
| Count | | 3 | | 2 | | 4 | | 4 | | 12 | | 11 | | 3 |
| Survivors / DROs | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | _ | |
| Average Benefits | \$ | 505 | \$ | 735 | \$ | 990 | \$ | 1,096 | \$ | 1,547 | \$ | 1,904 | \$ | 3,690 |
| Average Final Compensation | \$ | 5,989 | \$ | 6,865 | \$ | 3,653 | \$ | 3,254 | \$ | 3,428 | \$ | 3,781 | \$ | 4,974 |
| Count | | 4 | | 4 | | 8 | | 5 | | 5 | | 6 | | 8 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 1,246 | \$ | 0 | \$ | 1,622 | \$ | 4,494 | \$ | 0 | \$ | 5,142 | \$ | 6,753 |
| Average Final Compensation | \$ | 6,483 | \$ | 0 | \$ | 2,296 | \$ | 9,747 | \$ | 0 | \$ | 5,684 | \$ | 7,710 |
| Count | | 2 | | 0 | | 2 | | 2 | | 0 | | 1 | | 2 |
| 2019 | | | | | | | | | | | | | | |
| Retirees | _ | _ | | _ | | _ | | _ | | _ | | _ | | _ |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 345 | \$ | 1,131 | \$ | 1,780 | \$ | 3,030 | \$ | 3,669 | \$ | 4,796 | \$ | 7,232 |
| Average Final Compensation | Ś | 8,121 | Ś | 7,276 | \$ | 6,189 | \$ \$ | 6,988 | \$ | 7,070 | | 7,062 | - | 8,554 |
| Count | • | 20 | Ŷ | 35 | Ŷ | 40 | Ŷ | 36 | Ŷ | 29 | Ŷ | 30 | Ŷ | 37 |
| SAFETY MEMBERS | | 20 | | | | | | | | 25 | | | | |
| Average Benefits | \$ | 596 | \$ | 2,060 | \$ | 3,057 | \$ | 3,965 | \$ | 4,173 | \$ | 9.630 | \$ | 17,094 |
| Average Final Compensation | Ś | 9,587 | | 6,917 | \$ | 6,658 | | 7,484 | \$ | 7,087 | - | 11,287 | | 17,300 |
| Count | • | 6 | Ŷ | 5 | Ŷ | 5 | Ŷ | 6 | Ŷ | 11 | Ŷ | 10 | Ÿ | 5 |
| Survivors / DROs | | | | | | | | | | | | | 1 | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | Ś | 235 | \$ | 927 | \$ | 994 | \$ | 1,599 | \$ | 2,453 | \$ | 2,930 | \$ | 4,532 |
| Average Final Compensation | \$ | 6,898 | | 5,691 | \$ | 3,777 | - | 5,652 | | 4,288 | | 4,213 | | 5,778 |
| Count | | 6 | Ť | 8 | ŕ | 12 | - | 7 | , | .,00 | - | .,6 | Ť | 10 |
| SAFETY MEMBERS | | | 1 | | 1 | | 1 | • | | | 1 | | 1 | |
| Average Benefits | \$ | 712 | \$ | 1,280 | \$ | 1,831 | \$ | 0 | \$ | 3,258 | \$ | 4,435 | \$ | 6,246 |
| Average Final Compensation | Ś | 7,533 | | 7,809 | | 5,374 | | 0 | \$ | 4,504 | | 4,987 | | 6,460 |
| Count | v | 2 | 7 | 2 | ¥ | 3,314 | , | 0 | Ť | 3 | | 2 | | 1 |

| | | | | NUM | BER | OF YEAR | IS O | F COUNT | Y SE | | RED | п | | |
|----------------------------|----|-------|----|-------|-----|---------|------|---------|------|-------|-----|-------|----------|--------|
| RETIREMENT EFFECTIVE DATE | | 0-4 | | 5-9 | 1 | 0-14 | | 15-19 | 2 | 20-24 | | 25-29 | 30 | & OVEF |
| 2018 | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 596 | \$ | 1,166 | \$ | 1,759 | \$ | 2,671 | \$ | 3,522 | \$ | 5,202 | \$ | 6,036 |
| Average Final Compensation | \$ | 9,601 | \$ | 6,704 | \$ | 5,920 | \$ | 6,603 | \$ | 6,555 | \$ | 7,633 | \$ | 6,975 |
| Count | | 21 | | 45 | | 47 | | 55 | | 25 | | 33 | | 39 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 2,721 | \$ | 2,622 | \$ | 2,166 | \$ | 3,313 | \$ | 3,997 | \$ | 7,453 | \$ | 10,935 |
| Average Final Compensation | \$ | 5,485 | \$ | 8,987 | \$ | 6,168 | \$ | 6,135 | \$ | 6,442 | \$ | 9,615 | \$ | 11,725 |
| Count | | 1 | | 3 | | 5 | | 5 | | 8 | | 7 | | 4 |
| Survivors / DROs | | | | | | | | | | | 1 | | 1 | |
| GENERAL MEMBERS | | | | | | | | | | | _ | | | |
| Average Benefits | \$ | 224 | Ś | 659 | Ś | 1,201 | Ś | 1,204 | Ś | 2.150 | Ś | 2,590 | \$ | 2,759 |
| Average Final Compensation | \$ | 4,220 | \$ | 3,482 | \$ | 5,324 | \$ | 4,292 | \$ | 3,513 | \$ | 3,538 | \$ | 4,382 |
| Count | Ŷ | 3 | Ŷ | 5 | Ŷ | 10 | Ť | 10 | Ŷ | 1 | Ť | 5 | • | 9 |
| SAFETY MEMBERS | | | | 0 | | | | | | • | | | | |
| Average Benefits | \$ | 0 | \$ | 1,724 | Ś | 3,203 | Ś | 0 | \$ | 1,201 | \$ | 0 | \$ | 6,213 |
| Average Final Compensation | \$ | 0 | \$ | 6,376 | \$ | 4,065 | \$ | 0 | \$ | 3,140 | \$ | 0 | | 4,768 |
| Count | | 0 | Ŷ | 3 | Ŷ | 1,000 | Ŷ | 0 | Ŷ | 1 | Ŷ | 0 | • | 3 |
| | | Ŭ | | 0 | | | | 0 | | | | | | 3 |
| 2017 | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 377 | \$ | 1,420 | \$ | 2,070 | \$ | 2,325 | \$ | 3,951 | \$ | 4,678 | \$ | 6,187 |
| Average Final Compensation | \$ | 9,793 | \$ | 6,878 | \$ | 6,534 | \$ | 5,719 | \$ | 6,851 | \$ | 6,763 | \$ | 7,391 |
| Count | | 23 | | 36 | | 42 | | 48 | | 22 | | 31 | | 33 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 787 | \$ | 1,223 | \$ | 2,529 | \$ | 3,318 | \$ | 5,973 | \$ | 7,370 | \$ | 9,169 |
| Average Final Compensation | \$ | 9,859 | \$ | 5,688 | \$ | 6,385 | \$ | 6,311 | \$ | 9,021 | \$ | 9,265 | \$ | 9,050 |
| Count | | 5 | | 4 | | 7 | | 8 | | 6 | | 8 | | 1 |
| Survivors / DROs | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 678 | \$ | 1,055 | \$ | 1,622 | \$ | 1,126 | \$ | 1,850 | \$ | 1,779 | \$ | 5,139 |
| Average Final Compensation | \$ | 5,110 | \$ | 4,344 | \$ | 4,225 | \$ | 3,696 | \$ | 4,288 | \$ | 1,841 | \$ | 6,188 |
| Count | | 12 | | 9 | | 10 | | 6 | | 5 | | 2 | | 3 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 667 | \$ | 2,413 | \$ | 1,292 | \$ | 0 | \$ | 0 | \$ | 3,922 | \$ | 6,511 |
| Average Final Compensation | \$ | 5,605 | \$ | 6,311 | \$ | 3,454 | \$ | 0 | \$ | 0 | \$ | 4,565 | \$ | 2,765 |
| Count | | 2 | | 3 | | 2 | | 0 | | 0 | | 2 | - | 2 |

| | | | | NUM | BER | OF YEAR | IS O | F COUNT | Y SE | RVICE CI | RED | п | | |
|----------------------------|----------|-------|----|--------|----------|---------|------|---------|------|----------|-----|--------|-----|--------|
| RETIREMENT EFFECTIVE DATE | | 0-4 | | 5-9 | 1 | 10-14 | | 15-19 | 2 | 20-24 | | 25-29 | 30 | & OVER |
| 2016 | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | _ | |
| Average Benefits | \$ | 310 | \$ | 1,410 | \$ | 1,816 | \$ | 2,607 | \$ | 3,457 | \$ | 4,047 | \$ | 5,986 |
| Average Final Compensation | \$ | 6,616 | \$ | 6,159 | \$ | 6,368 | \$ | 6,088 | \$ | 6,269 | \$ | 5,888 | \$ | 7,069 |
| Count | | 21 | | 27 | | 52 | | 50 | | 22 | | 31 | | 41 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 3,817 | \$ | 1,759 | \$ | 2,546 | \$ | 6,290 | \$ | 5,510 | \$ | 10,275 | \$ | 10,494 |
| Average Final Compensation | \$ | 7,634 | \$ | 5,986 | \$ | 6,353 | \$ | 11,453 | \$ | 8,566 | \$ | 12,432 | \$ | 11,081 |
| Count | | 1 | | 6 | | 6 | | 3 | | 7 | | 14 | | 2 |
| Survivors / DROs | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 313 | \$ | 858 | \$ | 1,065 | \$ | 1,877 | \$ | 2,207 | \$ | 1,763 | \$ | 2,769 |
| Average Final Compensation | \$ | 5,727 | \$ | 4,674 | \$ | 4,527 | \$ | 3,984 | \$ | 7,223 | \$ | 4,176 | \$ | 3,314 |
| Count | | 5 | | 7 | | 11 | | 7 | - | 2 | | 4 | | 1 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 495 | \$ | 2,235 | \$ | 1,253 | \$ | 1,661 | \$ | 4,086 | \$ | 5,943 | \$ | 4,712 |
| Average Final Compensation | \$ | 7,339 | \$ | 9,643 | \$ | 3,843 | \$ | 2,755 | \$ | 5,646 | \$ | 8,004 | \$ | 4,804 |
| Count | | 2 | | 4 | | 1 | | 1 | | 1 | | 1 | | 2 |
| 2015 | | | | | | | | | | | | | | |
| Retirees | | _ | | _ | | _ | | _ | | _ | | _ | | _ |
| GENERAL MEMBERS | | | _ | | | | | | | | _ | | _ | |
| Average Benefits | \$ | 319 | \$ | 969 | \$ | 1,877 | \$ | 2,334 | \$ | 3,290 | \$ | 4,418 | \$ | 5,705 |
| Average Final Compensation | Ś | 5,983 | \$ | 5,857 | \$ \$ | 6.166 | | 5,409 | \$ | 5,854 | - | 6,614 | | 6,691 |
| Count | • | 14 | Ŷ | 26 | Ŷ | 40 | Ŷ | 43 | Ŷ | 26 | Ŷ | 27 | Ŷ | 38 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 585 | \$ | 2,212 | \$ | 3,041 | \$ | 3,959 | \$ | 6,341 | \$ | 8,438 | \$ | 10,290 |
| Average Final Compensation | Ś | 7,403 | | 6,103 | | 6,469 | | 6,943 | \$ | 8,580 | - | 9,869 | · · | 11,511 |
| Count | | 2 | • | 3 | • | 6 | • | 3 | • | 11 | • | 23 | • | 2 |
| Survivors / DROs | | | | | | | | | | | | | - | |
| GENERAL MEMBERS | | | _ | | | | | | | | | | _ | |
| Average Benefits | \$ | 576 | \$ | 989 | \$ | 1,002 | \$ | 1,803 | \$ | 3,042 | \$ | 2,827 | \$ | 5,276 |
| Average Final Compensation | \$ | 3,420 | | 6,179 | \$ | 3,344 | \$ | 4,974 | | 7,108 | | 6,234 | | 5,851 |
| Count | | 6 | | 10 | | 11 | | 3 | | 5 | | 2 | | 5 |
| SAFETY MEMBERS | | | I | | L | | | | | | I | | | |
| Average Benefits | \$ | 530 | \$ | 2,019 | \$ | 2,184 | \$ | 1,970 | \$ | 2,767 | \$ | 5,547 | \$ | 5,026 |
| Average Final Compensation | \$ | 6,053 | \$ | 11,396 | | 9,909 | | 3,888 | | 3,983 | | 8,256 | | 5,406 |
| Count | | 2 | | 1 | | 2 | | 1 | | 3 | | 3 | - | 3 |

| | | | | NUM | BER | OF YEAR | IS O | F COUNT | Y SE | RVICE CI | RED | IT | | |
|----------------------------|----|-------|----|--------|-----|---------|------|---------|------|----------|-----|--------|----|--------|
| RETIREMENT EFFECTIVE DATE | | 0-4 | | 5-9 | 1 | 10-14 | | 15-19 | 2 | 20-24 | | 25-29 | 30 | & OVEF |
| 2014 | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 461 | \$ | 1,237 | \$ | 1,775 | \$ | 2,567 | \$ | 4,363 | \$ | 4,570 | \$ | 6,392 |
| Average Final Compensation | \$ | 8,494 | \$ | 6,593 | \$ | 5,772 | \$ | 6,380 | \$ | 7,652 | \$ | 6,782 | \$ | 7,760 |
| Count | | 13 | | 28 | | 50 | | 46 | | 26 | | 43 | | 39 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 1,715 | \$ | 2,429 | \$ | 3,207 | \$ | 4,546 | \$ | 3,993 | \$ | 7,239 | \$ | 11,302 |
| Average Final Compensation | \$ | 7,439 | \$ | 6,281 | \$ | 6,826 | \$ | 8,863 | \$ | 6,031 | \$ | 8,897 | \$ | 11,762 |
| Count | | 2 | | 3 | | 5 | | 5 | | 4 | | 7 | | 1 |
| Survivors / DROs | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | _ | | | | | | | | _ | | | |
| Average Benefits | \$ | 478 | \$ | 1,016 | \$ | 1,007 | \$ | 935 | \$ | 2,002 | \$ | 1,153 | Ś | 2,941 |
| Average Final Compensation | \$ | 5,752 | \$ | 4.218 | Ś | 2,698 | Ś | 2,835 | Ś | 4,914 | \$ | 2,966 | Ś | 8.069 |
| Count | • | 12 | • | 6 | • | 13 | Ť | 4 | • | 6 | • | 1 | • | 5 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 2,030 | \$ | 2,464 | \$ | 2,890 | \$ | 3,326 | \$ | 3,002 | \$ | 3,282 | Ś | 0 |
| Average Final Compensation | \$ | 9,251 | \$ | 8,582 | \$ | 5,516 | \$ | 4,818 | \$ | 2,992 | \$ | 4,429 | \$ | 0 |
| Count | | 2 | | 3 | | 4 | | 1 | | 2 | | 2 | | 0 |
| 2013 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Retirees | | | | | | | | | | | | | | |
| GENERAL MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 433 | \$ | 1,410 | \$ | 1,589 | \$ | 2,556 | | 3,149 | \$ | 4,241 | \$ | 5,837 |
| Average Final Compensation | \$ | 7,695 | \$ | 7,279 | \$ | 5,787 | \$ | 6,125 | \$ | 6,132 | \$ | 6,467 | \$ | 6,718 |
| Count | | 10 | | 25 | | 40 | | 35 | | 35 | | 26 | | 29 |
| SAFETY MEMBERS | | | | | | | | | | | | | 1. | |
| Average Benefits | \$ | 1,165 | \$ | 1,435 | \$ | 2,621 | \$ | 3,501 | \$ | 4,260 | \$ | 11,134 | \$ | 9,279 |
| Average Final Compensation | \$ | 9,478 | \$ | 7,434 | \$ | 6,316 | \$ | 7,044 | \$ | 5,599 | \$ | 13,945 | | 9,670 |
| Count | | 3 | | 2 | | 7 | | 4 | | 1 | | 2 | | 2 |
| Survivors / DROs | | | | | | | | | | | | | | |
| GENERAL MEMBERS | , | | | | | | | | | | | | | |
| Average Benefits | \$ | 687 | \$ | 1,000 | \$ | 883 | \$ | 1,182 | \$ | 2,063 | \$ | 1,572 | \$ | 2,985 |
| Average Final Compensation | \$ | 3,804 | \$ | 4,531 | \$ | 3,953 | \$ | 3,163 | \$ | 3,722 | \$ | 1,821 | \$ | 3,681 |
| Count | | 6 | | 9 | | 15 | | 7 | | 5 | | 2 | | 5 |
| SAFETY MEMBERS | | | | | | | | | | | | | | |
| Average Benefits | \$ | 650 | \$ | 3,101 | \$ | 1,385 | \$ | 2,012 | \$ | 1,918 | \$ | 3,745 | \$ | 4,936 |
| Average Final Compensation | \$ | 4,955 | \$ | 10,868 | \$ | 2,506 | \$ | 3,966 | \$ | 2,525 | \$ | 6,184 | \$ | 5,381 |
| Count | | 3 | | 1 | | 2 | | 1 | | 2 | | 1 | | 1 |

Schedule of Average Monthly Benefit Payments by Number of Years Since Retirement

GENERAL AND SAFETY MEMBERS

| | | | | | I | NUM | IBER OF | YEA | RS SINCE | RE | TIREMEN | Г | | | |
|---------------|--------------------|------|-------|----|-------|-----|---------|----------|----------|----|---------|---------|----------|----|--------|
| YEAR ENDED | | c |)-4 | | 5-9 | 1 | 0-14 | . | 15-19 | | 20-24 | | 25-29 | 30 | & OVER |
| | Average Benefit | Ś. | 3.410 | Ś | 3,728 | Ś | 3.805 | Ś | 3.530 | \$ | 3,282 | Ś | 2.584 | \$ | 2,212 |
| 2022 | Number of Retirees | | 1,695 | Ş | 1,497 | Ŷ | 1,303 | v | 940 | Ŷ | 687 | | 326 | Ş | 237 |
| 2022 | Number of Nethees | | 1,095 | | 1,497 | | 1,505 | | 940 | | 001 | | 520 | | 231 |
| | Average Benefit | \$: | 3,341 | \$ | 3,788 | \$ | 3,602 | \$ | 3,401 | \$ | 2,906 | \$ | 2,506 | \$ | 2,131 |
| 2021 | Number of Retirees | | 1,710 | | 1,505 | | 1,231 | | 934 | | 606 | | 320 | | 223 |
| | Average Benefit | \$: | 3,361 | \$ | 3,682 | \$ | 3,457 | \$ | 3,433 | \$ | 2,673 | \$ | 2,410 | \$ | 2,070 |
| 2020 | Number of Retirees | | 1,693 | | 1,482 | | 1,178 | | 923 | | 563 | | 307 | | 206 |
| | Average Benefit | Ś. | 3,341 | Ś | 3,456 | Ś | 3,409 | Ś | 3,205 | Ś | 2,526 | Ś | 2,263 | \$ | 1,990 |
| 2019 | Number of Retirees | • | 1,710 | Ş | 1,508 | Ş | 1,106 | ې ا | 870 | \$ | 520 | Ş | 2,203 | \$ | 213 |
| 2015 | | | 1,110 | | 1,000 | | 1,100 | | 010 | | 020 | | 201 | | 210 |
| | Average Benefit | \$ 3 | 3,259 | \$ | 3,283 | \$ | 3,235 | \$ | 3,050 | \$ | 2,353 | \$ | 2,314 | \$ | 1,838 |
| 2018 | Number of Retirees | | 1,694 | | 1,441 | | 1,101 | | 873 | | 466 | | 271 | | 207 |
| | Average Benefit | \$: | 3,178 | \$ | 3,236 | \$ | 3,023 | \$ | 2,874 | \$ | 2,350 | \$ | 2,084 | \$ | 1,750 |
| 2017 | Number of Retirees | | 1,605 | | 1,434 | | 1,067 | | 831 | | 452 | | 245 | | 188 |
| | Average Benefit | \$: | 3,254 | \$ | 3,057 | \$ | 2,960 | \$ | 2,532 | \$ | 2,285 | \$ | 2,022 | \$ | 1,765 |
| 2016 | Number of Retirees | | 1,606 | | 1,351 | | 1,073 | | 742 | | 428 | | 234 | | 194 |
| | Average Benefit | Ś. | 3,139 | Ś | 2,918 | Ś | 2,921 | Ś | 2.333 | Ś | 2.221 | Ś | 1.995 | \$ | 1.566 |
| 2015 | Number of Retirees | · · | 1,587 | \$ | 1,291 | \$ | 1,046 | \$ | 692 | \$ | 412 | \$ | 212 | \$ | 1,500 |
| 2010 | | I | ., | | 1,231 | | 1,040 | | 052 | | 714 | | <u> </u> | | 1.54 |
| | Average Benefit | \$ 2 | 2,961 | \$ | 2,873 | \$ | 2,706 | \$ | 2,223 | \$ | 2,106 | \$ | 1,899 | \$ | 1,477 |
| 2014 | Number of Retirees | | 1,609 | | 1,224 | | 987 | | 642 | | 404 | | 209 | | 174 |
| | Average Benefit | \$ 2 | 2,840 | \$ | 2,755 | \$ | 2,609 | \$ | 2,049 | \$ | 2,029 | \$ | 1,881 | \$ | 1,348 |
| 2013 | Number of Retirees | | 1,520 | | 1,211 | | 990 | | 577 | | 372 | | 208 | | 163 |

Schedule of Average Monthly Benefit Payments by Number of Years Since Retirement

GENERAL MEMBERS

| | | NUMBER OF YEARS SINCE RETIREMENT | | | | | | | | | | | | | |
|---------------|---------------------------------------|----------------------------------|-----------|----------------|--------|--------------|--------|--------------|----|--------------|--------|--------------|------|--------------|--|
| YEAR ENDED | | 0-4 | | 5-9 | | 10-14 | | 15-19 | | 20-24 | | 25-29 | 30 | & OVER | |
| | Average Benefit | \$ 3,111 | Ś | 3,377 | Ś | 3,324 | Ś | 3.084 | Ś | 2.458 | \$ | 2.306 | \$ | 1,832 | |
| 2022 | Number of Retirees | 1,436 | | 1,252 | | 1,078 | | 774 | | 511 | | 275 | | 190 | |
| | Average Benefit | \$ 3,067 | Ś | 3,349 | Ś | 3,213 | Ś | 2,827 | Ś | 2,305 | Ś | 2,256 | Ś | 1,720 | |
| 2021 | Number of Retirees | 1,444 | • | 1,256 | • | 1,019 | • | 756 | • | 467 | • | 269 | • | 178 | |
| | Average Benefit | \$ 3,040 | Ś | 3,294 | Ś | 3,053 | Ś | 2.731 | Ś | 2,241 | Ś | 2.198 | Ś | 1,665 | |
| 2020 | Number of Retirees | 1,433 | • | 1,256 | • | 962 | • | 714 | • | 451 | • | 257 | • | 169 | |
| | Average Benefit | \$ 2,961 | Ś | 3,135 | Ś | 3,018 | Ś | 2,498 | Ś | 2,137 | Ś | 2,083 | Ś | 1,580 | |
| 2019 | Number of Retirees | 1,432 | V | 1,274 | V | 922 | V | 666 | V | 423 | V | 234 | V | 175 | |
| | Average Benefit | \$ 2,937 | Ś | 2,967 | Ś | 2,767 | Ś | 2,402 | \$ | 2,081 | Ś | 2,103 | Ś | 1,422 | |
| 2018 | Number of Retirees | 1,434 | \$ | 1,222 | \$ | 903 | \$ | 667 | \$ | 392 | \$ | 2,103 | Ş | 1,422 | |
| | Average Benefit | \$ 2.884 | Ś | 2.836 | Ś | 2.659 | Ś | 2.201 | Ś | 2.112 | Ś | 1.872 | Ś | 1,331 | |
| 2017 | Number of Retirees | \$ 2,884 1,357 | \$ | 1,195 | \$ | 887 | \$ | 628 | \$ | 384 | \$ | 204 | \$ | 1,331 | |
| | | A 0.007 | | 0 701 | | 0.400 | | 0.005 | | 0.005 | | 1 770 | | 1 400 | |
| 2016 | Average Benefit Number of Retirees | \$ 2,887 1,358 | \$ | 2,721 | \$ | 2,483 878 | \$ | 2,005 576 | \$ | 2,085 360 | \$ | 1,778 201 | \$ | 1,428 159 | |
| | | | . | | . | | . | | | | . | | | | |
| 2015 | Average Benefit Number of Retirees | \$ 2,821 1,353 | \$ | 2,577 1,066 | \$ | 2,359 821 | \$ | 1,942 560 | \$ | 2,036 345 | \$ | 1,763 188 | \$ | 1,269 160 | |
| 2013 | | | | | | 021 | | | | | | | | | |
| 2014 | Average Benefit | \$ 2,689 | \$ | , | \$ | , | \$ | 1,847 | \$ | 1,950 | \$ | , | \$ | 1,158 | |
| 2014 | Number of Retirees | 1,371 | | 1,030 | | 767 | | 524 | | 342 | | 180 | | 144 | |
| | Average Benefit | \$ 2,572 | \$ | | \$ | 2,062 | \$ | 1,787 | \$ | 1,855 | \$ | 1,623 | \$ | 1,003 | |
| 2013 | Number of Retirees | 1,297 | | 1,000 | | 762 | | 485 | | 319 | | 177 | | 132 | |

Schedule of Average Monthly Benefit Payments by Number of Years Since Retirement

SAFETY MEMBERS

| | | NUMBER OF YEARS SINCE RETIREMENT | | | | | | | | | | | | | |
|---------------|--------------------|----------------------------------|---------|----|-------|----|-------|----|-------|----|-------|----|-------|----|--------|
| YEAR ENDED | | | 0-4 | | 5-9 | | 10-14 | | 15-19 | | 20-24 | | 25-29 | 30 | & OVER |
| | Augusta Damafit | Ś | F 0.C 7 | Ś | 5.523 | Ś | 6.109 | Ś | 5.611 | Ś | 5.675 | Ś | 4.085 | \$ | 0.740 |
| | Average Benefit | \$ | 5,067 | \$ | | \$ | | \$ | | Ş | | Ş | , | \$ | 3,749 |
| 2022 | Number of Retirees | | 259 | | 245 | | 225 | | 166 | | 176 | | 51 | | 47 |
| | Average Benefit | \$ | 4,832 | \$ | 6,001 | \$ | 5,472 | \$ | 5,843 | \$ | 4,926 | \$ | 3,826 | \$ | 3,755 |
| 2021 | Number of Retirees | | 266 | | 249 | | 212 | | 178 | | 139 | | 51 | | 45 |
| | Average Benefit | \$ | 5,133 | \$ | 5,840 | \$ | 5,256 | \$ | 5,832 | \$ | 4,411 | \$ | 3,500 | \$ | 3,919 |
| 2020 | Number of Retirees | | 260 | | 226 | | 216 | | 209 | | 112 | | 50 | | 37 |
| | Average Benefit | \$ | 5,298 | \$ | 5,200 | \$ | 5,371 | \$ | 5,514 | \$ | 4,220 | \$ | 3,162 | \$ | 3,879 |
| 2019 | Number of Retirees | | 278 | | 234 | | 184 | | 204 | | 97 | | 47 | | 38 |
| | Average Benefit | Ś | 5,030 | Ś | 5,047 | Ś | 5,371 | \$ | 5,148 | Ś | 3,795 | Ś | 3,406 | Ś | 3,471 |
| 2018 | Number of Retirees | | 260 | | 219 | | 198 | | 206 | | 74 | | 44 | | 42 |
| | Average Benefit | Ś | 4,788 | Ś | 5,234 | Ś | 4,819 | Ś | 4.956 | Ś | 3.691 | Ś | 3,140 | Ś | 3,459 |
| 2017 | Number of Retirees | | 248 | | 239 | | 180 | | 203 | | 68 | | 41 | | 37 |
| | | | | | | | | | | | | | | | |
| | Average Benefit | \$ | 5,266 | \$ | , | \$ | 5,104 | \$ | , | \$ | 3,345 | \$ | | \$ | 3,295 |
| 2016 | Number of Retirees | | 248 | | 226 | | 195 | | 166 | | 68 | | 33 | | 35 |
| | Average Benefit | \$ | 4,975 | \$ | 4,531 | \$ | 4,975 | \$ | 3,990 | \$ | 3,171 | \$ | 3,814 | \$ | 2,964 |
| 2015 | Number of Retirees | | 234 | | 225 | | 225 | | 132 | | 67 | | 24 | | 34 |
| | Average Benefit | \$ | 4,526 | \$ | 4,505 | \$ | 4,705 | \$ | 3,896 | \$ | 2,968 | \$ | 3,582 | \$ | 3,013 |
| 2014 | Number of Retirees | | 238 | | 194 | | 220 | | 118 | | 62 | | 29 | | 30 |
| | Average Benefit | \$ | 4,398 | \$ | 4,581 | \$ | 4,437 | \$ | 3,431 | \$ | 3,076 | \$ | 3,354 | \$ | 2,813 |
| 2013 | Number of Retirees | | 223 | | 211 | | 228 | | 92 | | 53 | | 31 | | 31 |

Schedule of Participating Employers

FOR THE LAST TEN FISCAL YEARS ENDED DECEMBER 31

| | _ | | | | | | F | | | 3110 | | | TEAN | S EIN | | | MBER | 31 | | | |
|-----------------------------------|---------------|---------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|
| | 2022 | | 20 | 21 | 20 | 20 | 20 | 19 | 20 | 18 | 20 | 17 | 2016 | | 20 | 15 | 20 | 14 | 20 | 13 | |
| TIER | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| COUNTY OF S | AN .10 | າງຈຸດເມ | IN | | | | | | | | | | | | | | | | | | |
| General Members | | | | 3,089 | 2,287 | 2,922 | 2,483 | 2,702 | 2,750 | 2,473 | 2,962 | 2,050 | 3,205 | 1,717 | 4,614 | 1,416 | 4,864 | 918 | 5,138 | 507 | |
| Safety Members | 398 | 370 | 431 | 345 | 470 | 301 | 509 | 276 | 563 | 235 | 596 | 204 | 622 | 138 | 800 | 85 | 861 | 59 | 881 | 12 | |
| TOTAL | 2,250 | 3,699 | 2,477 | 3,434 | 2,757 | 3,223 | 2,992 | 2,978 | 3,313 | 2,708 | 3,558 | 2,254 | 3,827 | 1,855 | 5,414 | 1,501 | 5,725 | 977 | 6,019 | 519 | |
| SUPERIOR CO | URT | | | | | | | | | | | | | | | | | | | | |
| General Members | 139 | 152 | 150 | 146 | 164 | 130 | 177 | 135 | 184 | 114 | 194 | 105 | 202 | 101 | 255 | 66 | 263 | 38 | 269 | 20 | |
| Safety Members | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C | |
| TOTAL | 139 | 152 | 150 | 146 | 164 | 130 | 177 | 135 | 184 | 114 | 194 | 105 | 202 | 101 | 255 | 66 | 263 | 38 | 269 | 20 | |
| LATHROP-MA | ANTE | CA RL | JRAL | FIRE I | PROT | ECTIC | DN DI | STRIC | т | | | | | | | | | | | | |
| General Members | 0 | 5 | 0 | 3 | 0 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | (| |
| Safety Members | 19 | 21 | 18 | 24 | 21 | 23 | 21 | 23 | 21 | 19 | 25 | 7 | 25 | 8 | 41 | 8 | 42 | 7 | 43 | 3 | |
| TOTAL | 19 | 26 | 18 | 27 | 21 | 26 | 22 | 26 | 22 | 22 | 26 | 9 | 26 | 10 | 42 | 9 | 43 | 8 | 44 | 3 | |
| WATERLOO-M | /ORA | DA RI | JRAL | FIRE | PROT | ECTI | ON DI | STRI | СТ | | | | | | | | | | | | |
| General Members | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (| |
| Safety Members | 6 | 13 | 7 | 12 | 8 | 12 | 8 | 9 | 10 | 6 | 11 | 6 | 12 | 6 | 14 | 7 | 12 | 6 | 13 | 5 | |
| TOTAL | 6 | 13 | 7 | 12 | 8 | 12 | 8 | 9 | 10 | 6 | 11 | 6 | 12 | 6 | 14 | 7 | 12 | 6 | 13 | Ę | |
| OTHER PARTIC | CIPAT | ING E | MPL | OYER | S (GE | NERA | L ME | MBEF | RS) | | | | | | | 1 | | | | | |
| SJC Mosquito | | | | | | | | | | | | | | | | | | | | | |
| & Vector Control District | 16 | 19 | 17 | 19 | 19 | 16 | 19 | 17 | 21 | 15 | 23 | 11 | 26 | 9 | 30 | 8 | 32 | 7 | 38 | 2 | |
| Mountain House | | | | | | | | | | | | | | | | | | | | | |
| Community Services District | 4 | 26 | 4 | 22 | 5 | 22 | 4 | 24 | 4 | 23 | 6 | 17 | 6 | 13 | 10 | 11 | 9 | 9 | 13 | Ę | |
| | | | | | | | | | | | | | | | | | | | | | |
| Tracy Public Cemetery District | 0 | 5 | 1 | 7 | 2 | 6 | 2 | 5 | 2 | 4 | 2 | 4 | 2 | 4 | 5 | 5 | 5 | 4 | 6 | 3 | |
| San Joaquin | | | - · · | 1 | 2 | 5 | | 5 | 2 | -7 | | - | 2 | -1 | | | 5 | -1 | 5 | | |
| County Law | | | | | | | | | | | | | | | | | | | | | |
| Library | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | (| |
| SJC Historical Society & | | | | | | | | | | | | | | | | | | | | | |
| Museum | 1 | 4 | 1 | 4 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | (| |
| Local Agency Formation | | | | | | | | | | | | | | | | | | | | | |
| Commission | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | (| |
| TOTALS | 21 | 56 | 23 | 53 | 28 | 48 | 27 | 50 | 29 | 47 | 33 | 33 | 37 | 26 | 48 | 24 | 49 | 20 | 62 | 10 | |
| GRAND TOTAL | 2,435 | 3,946 | 2,675 | 3,672 | 2,978 | 3,439 | 3,226 | 3,198 | 3,558 | 2,897 | 3,822 | 2,407 | 4,104 | 1,998 | 5,773 | 1,607 | 6,092 | 1,049 | 6,407 | 557 | |

COMPILATION, EDITING AND REVIEW

Carmen Murillo, Eve Cavender, and Marissa Smith

DESIGN AND LAYOUT

Design Forge



San Joaquin County Employees' Retirement Association

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