

**MIDWAY CITY SANITARY DISTRICT
REGULAR MEETING
BOARD OF DIRECTORS
DISTRICT OFFICE
14451 CEDARWOOD STREET
WESTMINSTER, CA**

**Tuesday, October 3, 2023
5:30 P.M.**

AGENDA

OUR MISSION STATEMENT

THE BOARD OF DIRECTORS AND EMPLOYEES OF THE MIDWAY CITY SANITARY DISTRICT WORK DILIGENTLY TO PROVIDE SEWER AND SOLID WASTE SERVICES TO THE RESIDENTS OF THE DISTRICT. OUR TOP PRIORITY IS TO ACCOMPLISH THIS IN AN ETHICAL, EFFICIENT, AND COST-EFFECTIVE MANNER THAT WILL PROTECT THE HEALTH AND SAFETY OF THOSE WE SERVE.

In accordance with the requirements of California Government Code Section 54954.2, this Agenda is posted not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the Board Secretary.

In the event any matter not listed on this agenda is proposed to be submitted to the Board for discussion and/or action, it will be done in compliance with Section 54954.2, or as set forth on a Supplemental Agenda posted not less than 72 hours prior to the meeting.

Please Note: The District complies with the provisions of the Americans with Disabilities Act (ADA). Anyone needing special assistance please contact the District's Secretary at (714) 893-3553, at least one business day prior to the meeting so that we may accommodate you.

- 1. CALL TO ORDER, PLEDGE OF ALLEGIANCE AND INVOCATION**
- 2. ROLL CALL AND DECLARATION OF QUORUM**
- 3. PUBLIC COMMENTS**

All persons wishing to address the Board on specific Agenda items or matters of general interest should do so at this time. As determined by the President, speakers may be deferred until the specific item is taken for discussion and remarks may be limited to three (3) minutes.

4. APPROVAL OF THE MINUTES

- A. Approval of the Minutes of the Regular Meeting on September 19, 2023

5. APPROVAL OF EXPENDITURES

- A. Approval of Demands in the Amount of \$120,907.51

6. REPORTS

The President, General Manager, Legal Counsel, and other staff present verbal reports on miscellaneous matters of general interest to the Directors. These reports are for information only and require no action by the Directors.

- A. Report of President
- B. Report of General Manager
- C. Report of AAPI Leadership Summit Conference on September 7, 2023
- D. Report of Fall Festival on September 22-24, 2023
- E. Report of Building Project Ad Hoc Committee Meeting on September 27, 2023
- F. Report of OC San District Board of Directors Meeting on September 27, 2023
- G. Report of District Employee Luncheon on September 27
- H. Report of ISDOC In-Person Quarterly Luncheon on September 28

7. CONSENT CALENDAR

All matters listed on the Consent Calendar are considered routine and will be acted upon at the same time unless separate discussion and/or action is requested by a Board Member, the public, or staff.

- A. Approve request of Solid Waste Driver R. Mayfield to Received 40 hours of Vacation Pay in Lieu of Time Off Due to Financial Hardship
- B. Approval of Amendment No. 2 to Professional Services Agreement with Rengel+CO Architects Incorporated for Additional Services in the Amount of \$16,850.49 for The District's Building and Solar Project

8. OLD BUSINESS

None

9. NEW BUSINESS

- A. Review, Receive, and File the CalPERS June 30, 2022 Annual Valuation Reports for the District's Pension Plans

10. INFORMATIONAL ITEMS

None

11. BOARD CONCERNS/COMMENTS

12. GM/STAFF CONCERNS/COMMENTS

13. LEGAL COUNSEL CONCERNS/COMMENTS

14. CLOSED SESSION

CLOSED SESSION: During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chair may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted.

Reports relating to (a) purchase and sale of property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time as the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

None

15. ADJOURNMENT TO TUESDAY, OCTOBER 17, 2023

**MINUTES OF THE REGULAR MEETING OF THE
BOARD OF DIRECTORS OF THE MIDWAY CITY
SANITARY DISTRICT OF ORANGE COUNTY
14451 CEDARWOOD STREET
WESTMINSTER, CA 92683**

September 19, 2023

CALL TO ORDER

President T. Diep called the regular meeting of the Governing Board of the Midway City Sanitary District to order at 14451 Cedarwood Street, Westminster, California on Tuesday, September 19, 2023 at 5:35 PM.

BOARD MEMBERS PRESENT:

Tyler Diep
Sergio Contreras
Andrew Nguyen
Mark Nguyen

STAFF MEMBERS PRESENT:

Robert Housley, General Manager
Nicolas Castro, Director of Operations & Safety
Siamlu Cox, Director of Finance & Human Resources
Milo Ebrahimi, District Engineer, P.E.
Ashley Davies, Director of Servs. & Program Development
Cynthia Olsder, Executive/Board Secretary

BOARD MEMBERS ABSENT:

Chi Charlie Nguyen

OTHER MEMBERS PRESENT:

Cassie Trapesonian, Assistant General Counsel, Woodruff & Smart
James R. Fisler, Commissioner, Orange County Local Agency Formation
John Lewis, Consultant, Mesa Water District

PLEDGE AND INVOCATION

President T. Diep led the Pledge of Allegiance. Director S. Contreras gave the Invocation.

PUBLIC COMMENTS

J. Fisler, Commissioner of the Orange County Local Agency Formation (LAFCO) provided an update relevant to special districts in Orange County. He also handed out a newsletter for distribution. He said the purpose of his visit was to ensure open dialogue and transparency.

APPROVAL OF THE MINUTES OF THE REGULAR MEETING ON SEPTEMBER 5, 2023

A motion was made by Director A. Nguyen, seconded by Director S. Contreras, to approve the minutes of the Regular Meeting on September 5, 2023. The motion was approved by the following 4-0 vote:

AYES: A. Nguyen, M. Nguyen, T. Diep, S. Contreras

NAYS:

ABSTAIN:

ABSENT: C. Nguyen

APPROVAL OF EXPENDITURES

A. Demands in the amount of \$1,182,744.54.

#	CK #	DATE	AMOUNT	VENDOR CHECKS:	MEMO:
1	14912	8/23	599.00	Eduardo Ceja	District Luncheon 2023_08_23
2	14913	8/25	531.34	AT&T (Brookhurst Lift Station)	Acct # 714 531-0272 115 1
3	14914	8/25	280.00	Ayala's Car Wash	Fleet Wash 08/21/23
4	14915	8/25	1,840.50	Bodyworks Equip. Inc.	Heil Switch (5) Control Box (1) Interface (1)
5	14916	8/25	84.94	City of Westminster Hydrant	Hydrant Water Service Aug-2023
6	14917	8/25	4,882.50	CliftonLarsonAllen, LLP	Financial Stmt Audit FYE 06/30/2023 Interim
7	14918	8/25	149.69	Cummins Pacific LLC	Oil Pan Gasket (1) NG-5
8	14919	8/25	5,544.05	Daniels Tire Service	Recap and Front Tires
9	14920	8/25	1,070.65	Dartco Transmission Sales & Svcs.	Transmission Filters (12)
10	14921	8/25	1,931.53	Dtntech	Stadium Seats (40)
11	14922	8/25	1,411.00	Heritage Container Corporation	Cardboard Trash Boxes (250)
12	14923	8/25	3,718.55	Hydraulic Solutions And Supplies	Heil cylinders (4) Heil Packer (2)
13	14924	8/25	678.12	Intuit, Inc.	Void
14	14925	8/25	2,383.80	Lock N Climb LLC	Truck Engine Platform Ladder (1)
15	14926	8/25	30.00	MemorialCare Medical Foundation	Lab Spec R. Mayfield 03/08/2023
16	14927	8/25	33.90	Pre-Paid Legal Services, Inc.	Prepaid legal Aug-2023
17	14928	8/25	27,256.56	Samsara Inc.	License/Support Vehicle Cameras 07/22/23-07/21/24 (18)
18	14929	8/25	458.47	SoCal Auto & Truck Parts, Inc.	Shop Fan (1) Venom Steel (2) Brake Cleaner (36)
19	14930	8/25	2,368.44	Southwest Sign Company	Building Dedication Plaque Dpt
20	14931	8/25	2,017.03	Studio E. Interiors	Issue & Evaluate bids; Board Room layout
21	14932	8/25	361.66	UniFirst Corporation	August - 2023
22	14933	8/25	9,812.50	Woodruff & Smart	Legal Services July-2023
23	14934	9/1	615.50	Advanced Workplace Strategies, Inc.	DOT Test P.Mariscal, D.Solano, J.Contreras, R.Mayfield 08/04/23
24	14935	9/1	620.00	Ayala's Car Wash	Fleet Wash (4)
25	14936	9/1	5,961.26	Bodyworks Equip. Inc.	Packer Paddle & Actuator Kit (1), Journal Block (1)
26	14937	9/1	282.13	Cameron Welding Supply	Revco Tigster Flame Res. LG (2), Revso Tigster Flame Res. XL (1), Med Marking Soapstone 120PK (1)
27	14938	9/1	167.04	City of Westminster-Water Billing	Wash Rack and District Office
28	14939	9/1	193,214.13	CR Transfer, Inc.	Tonnage Fees July 2023
29	14940	9/1	1,990.00	CRC Cloud	Maintenance & Support Aug-2023
30	14941	9/1	1,970.28	Daniels Tire Service	Recap Tires (15)
31	14942	9/1	10,117.50	Davis Farr LLP	Accounting Assistance July-2023
32	14943	9/1	0.00	Frontier Communications	VOID: Acct # 209-188-5155-071808-5
33	14944	9/1	419.67	Haaker Equipment Co.	Repairs to NG-6 Vactor Truck
34	14945	9/1	276.55	Hillco Fastener Warehouse Inc.	Restock bolts, washers, terminal packs & nylon wire for shop use
35	14946	9/1	42.53	Los Angeles Truck Centers, LLC	Turn Signal Lamp (2) for NG-12
36	14947	9/1	2,541.87	NVB Equipment, Inc.	A/C Repair NG-6, 10, 7
37	14948	9/1	696.00	Odyssey Power Corporation	Generator Emergency Diagnostic 08/21/23
38	14949	9/1	36.43	PSI	Replacement Parts for Wash Rack
39	14950	9/1	476.85	Safety-Kleen Systems, Inc.	Model 90 Parts Washers (1)
40	14951	9/1	11,816.73	Southern California Edison	Willow Aug-2023
41	14952	9/1	98.02	Spectrum Enterprise (Time Warner Cab	Aug-2023
42	14953	9/1	1,471.36	Standard Insurance Company Life	Sep - 2023
43	14954	9/1	683.98	Tell Steel	Metal plates (3) Solid Waste trucks
44	14955	9/1	349.57	UniFirst Corporation	August - 2023
45	14956	9/1	621.40	Frontier Communications	(714)903-1863 Willow Aug - 2023
46	14957	9/8	74.47	Andrew Nguyen	2023 CSDA Conference Reimbursement
47	14958	9/8	360.00	Ayala's Car Wash	Fleet Wash (9)
48	14959	9/8	335.15	Cameron Welding Supply	Oxygen, Compressed (2), Acetylene, Dissolved (1), Weldmark Cutting Tips (4)

49	14960	9/8	1,891.48	Clean Energy	CNG Station Service 08/28/23
50	14961	9/8	11,025.00	CliftonLarsonAllen, LLP	Financial Stmt Audit FYE 06/30/2023 Interim
51	14962	9/8	900.41	CR&R Incorporated	Compost Event Westminster Mall 07/22/23
52	14963	9/8	12,465.00	Rengel + Company Architects, Inc	Bldg Proj Mgt August-2023
53	14964	9/8	2,175.00	Safety Research Consultants, Inc.	Driver's Safety Training on 05/20/23
54	14965	9/8	7,473.38	SCI Consulting Group	Sewer & Trash Fee Levy Admin FY 2023-22
55	14966	9/8	4,218.88	SDRMA - Employee Benefits	Oct-2023
56	14967	9/8	245.00	Shannon Frost	EE Education Reimbursement
57	14968	9/8	11,725.19	SoCalGas	CNG Station Aug-2023 (12,439)
58	14969	9/8	81.76	Staples Business Credit	Office Supplies Aug-2023
59	14970	9/8	2,865.50	Studio E. Interiors	08/01 - 08/31
60	14971	9/8	473,927.04	Woodcliff Corporation - Contractor	Solar & Building Project
61	14972	9/8	24,943.54	Woodcliff Corporation - Escrow Account	Solar & Building Project
62			\$ 856,619.83	CHECKS SUBTOTAL	
63					
64				PAYROLL:	MEMO
65	ACH	8/22	87,055.43	Paychex	Employee Payroll - Checks, Taxes, & Direct Deposits
66	ACH	8/23	5,985.16	Nationwide	457 Deferred Compensation (Employees)
67	ACH	9/1	8,221.16	Paychex	Board Payroll - Checks, Taxes, & Direct Deposits
68	ACH	9/1	846.00	Nationwide	457 Deferred Compensation (Board)
69	ACH	9/5	86,399.72	Paychex	Employee Payroll - Checks, Taxes, & Direct Deposits
70		9/11	5,929.20	Nationwide	457 Deferred Compensation (Employees)
71			\$ 194,436.67	ACH TRANSFERS SUBTOTAL	
72					
73				ACH PAYMENTS:	MEMO
74	FY24M1002	8/21	389.23	Paychex	Time & Attendance
75	FY24M1003	8/25	17,005.28	US Bank Corporate Payment System	CAL-Card Purchases Statement 08/22/23
75	FY24M1004	8/24	19,076.37	CalPERS-Retirement	Earned Period 08/07/23 - 08/20/23
77	FY24M1005	8/28	1,572.71	Chevron Texaco (WEX Bank)	Fleet Fuel
75	FY24M1006	8/23	67,662.68	CalPERS-Health	September 2023 Health (Employees)
79	FY24M1007	8/23	6,874.06	CalPERS-Health	September 2023 Health (Board)
80	FY24M1008	8/25	72.00	Wex Health	Monthly HRA Admin Fee
81	FY24M1009	9/11	19,035.71	CalPERS-Retirement	Earned Period 08/21/23 - 09/03/23
81			\$ 131,688.04	ACH TRANSFERS SUBTOTAL	
83					
84			\$ 1,182,744.54	TOTAL EXPENDITURES (ACCOUNTS PAYABLE CHECKS, PAYROLL, ACH TRANSFERS)	
85					
86				BANK TRANSFERS:	
86		8/22	400,000.00	Funds Transfer from Checking to Money Market	
87		8/22	500,000.00	Funds Transfer from LAIF to Checking	
88		9/8	262,167.50	Funds Transfer from Money Market to Checking	
89			\$ 1,162,167.50	BANK TRANSFERS	

A motion was made by Director S. Contreras, seconded by Director A. Nguyen, to approve the expenditures in the amount of \$1,182,744.54. The motion was approved by the following 4-0 vote:

AYES: T. Diep, A. Nguyen, M. Nguyen, S. Contreras
 NAYS:
 ABSTAIN:
 ABSENT: C. Nguyen

REPORTS

Report of President:

None

Report of General Manager

GM R. Housley reported that Costa Mesa Sanitary District visited the district earlier today along with two members of the Youth Southeast Asian Leaders Initiative (YSEALI), a U.S. government's signature program to strengthen partnerships with emerging leaders in Southeast Asia.

GM R. Housley reported that a small group of kids under the age of five will be given a tour of our facility on September 22, 2023. He also reported that the management team will be attending a one-day training offsite at the Costa Mesa Sanitary District office on September 26, 2023.

GM R. Housley reported that the district website has posted the request for proposal (RFP) for the calendar for the years 2025 to 2027. Additionally, he provided an update on the 2024 calendar.

Report of the Outreach Committee Meeting on September 6, 2023

Director A. Nguyen and Director C. Nguyen attended the meeting to finalize the last clean-up event of the year, to discuss open house, and to decide the dates for the clean-up events in 2024.

Report of the AAPI Leadership Summit Conference on September 7, 2023

President T. Diep requested that this item be moved to the following agenda when Director C. Nguyen is present.

Report of the Meeting with Peoplespace Inc. offsite on September 7, 2023

Director A. Nguyen and Director M. Nguyen attended the meeting in Irvine, California and reported there were a lot of furniture and color decisions to be made.

Report of the Building Project Ad Hoc Committee Meeting on September 12, 2023

Director M. Nguyen provided a status updated reporting that there was a good probability the project would be finished in 2024.

CONSENT CALENDAR

- A. Approve the Transferring and Reallocating of Funds into the Midway City Sanitary District's Reserve and Investment Accounts
- B. Approve the September 6, 2023 Outreach Committee Recommendations
- C. Approve and File the Treasurer's Investment Report for August 2023
- D. Approve the Engineer Report for August 2023
- E. Recognition and Approval of a 5-year Accident and Injury Free Award for Relief Driver/Utility Worker, Shannon Clarke, in the Amount of \$200.00

- F. Recognition and Approval of a 5-year Accident and Injury Free Award for Sewer Worker, Alejandro Gonzalez, in the Amount of \$200.00

A motion was made by Director S. Contreras, seconded by Director A. Nguyen, to approve the Consent Calendar. The motion was approved by the following 4-0 vote:

AYES: T. Diep, A. Nguyen, M. Nguyen, S. Contreras

NAYS:

ABSTAIN:

ABSENT: C. Nguyen

OLD BUSINESS

None

NEW BUSINESS

- A. Consider the Purchase of One (1) Electric Vehicle (EV) in an Amount Not to Exceed a Total of \$65,000.00

A staff report and recommendations were provided and considered by the Board. A motion was made by Director A. Nguyen, seconded by Director M. Nguyen, to approve the purchase of one (1) electric vehicle (EV) in an amount not to exceed a total of \$65,000. The motion was approved by the following 4-0 call vote:

AYES: A. Nguyen, M. Nguyen, T. Diep, S. Contreras

NAYS:

ABSTAIN:

ABSENT: C. Nguyen

- B. RESOLUTION NO. 2023-19

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE MIDWAY CITY SANITARY DISTRICT OF ORANGE COUNTY, CALIFORNIA, APPROVING CHANGES TO THE EMPLOYEE HANDBOOK FOR NON-REPRESENTED EMPLOYEES AND RESCINDING RESOLUTION NO. 2021-12

A staff report and recommendations were provided and considered by the Board. A motion was made by Director A. Nguyen, seconded by Director M. Nguyen, to adopt Resolution No. 2023-19, approving changes to the employee handbook for non-represented employees and rescinding Resolution No. 2021-12. The motion was approved by the following 4-0 roll call vote:

AYES: A. Nguyen, M. Nguyen, T. Diep, S. Contreras

NAYS:

ABSTAIN:

ABSENT: C. Nguyen

INFORMATIONAL ITEMS

- A. Orange County Water District Groundwater Adventure Tour on October 27, 2023
- B. Orange County Water Summit on October 13, 2023

Received and file.

BOARD CONCERNS/COMMENTS

Director A. Nguyen thanked Staff.

Director S. Contreras reminded staff that he has not yet received information on the director of services and program development's workplan or the district's plans for reaching out to communities other than the Vietnamese community.

GM/STAFF CONCERNS/COMMENT

None

LEGAL COUNSEL CONCERNS/COMMENTS

None

CLOSED SESSION

None

CLOSED SESSION: During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chair may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted.

Reports relating to (a) purchase and sale of property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time as the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

ADJOURNMENT

President T. Diep adjourned the meeting at 6:15 PM to the next Board Meeting to be held at the District on Tuesday, October 3, 2023, at 5:30 PM.

Andrew Nguyen, Secretary

AGENDA ITEM 5A

Date: October 3, 2023

To: Board of Directors

Prepared by: Siamlu Cox, Director of Finance & Human Resources

Subject: Approval of Demands in the Amount of \$120,907.51

BACKGROUND

The laws of the State of California governing Special Districts provide that the Midway City Sanitary District Board of Directors shall review for approval all payments made by the District.

A Register of Demands is provided at each regular Midway City Sanitary District Board Meeting describing each payment made or to be made by the district during the specified period. The report is designed to communicate fiscal activity based on adopted and approved budget appropriations.

The Treasurer has duly reviewed the demands on the attached register.

FISCAL IMPACT

The total value of demand for this period is \$120,907.51. This includes expenses, payroll, and payroll-related disbursements.

Sufficient funds are available to process all payments.

RECOMMENDATION

Staff recommends that the Board of Directors review and approve the attached Register of Demands.

**DISBURSEMENTS FOR
10 03 2023**

#	CK #	DATE	AMOUNT	VENDOR CHECKS:	MEMO:
1	14973	9/14	1,236.51	City of Westminster	Plan Check Fee for Solar Project
2	14974	9/15	404.49	AT&T Mobility (First Net)	August-2023
3	14975	9/15	620.00	Ayala's Car Wash	Fleet wash (18)
4	14976	9/15	5,325.93	Bodyworks Equip. Inc.	Packer Paddle & Actuator Kit (1)
5	14977	9/15	314.61	Cameron Welding Supply	CO2, Compressed (2), C/O Wheel A-SG Type 27 (10), Gloves (2)
6	14978	9/15	2,022.00	Daniels Tire Service	Recap Tires (7)
7	14979	9/15	753.91	Golden Bell Products	Super Butyl (1 x 55gal) (55), Hand Pumps (4)
8	14980	9/15	2,563.42	Hydraulic Solutions And Supplies	Heil cylinders (8)
9	14981	9/15	1,450.00	Me Viet Nam Productions	Talk Show 15 minute (5) 08/19/23 - 08/27/23
10	14982	9/15	828.36	Merchants Building Maintenance, LLC	Janitorial Services September-2023
11	14983	9/15	100.00	Pitney Bowes/Purchase Power	Postage August-2023
12	14984	9/15	3,463.29	Plumbers Depot Inc.	Hose Replacement for NG-16
13	14985	9/15	513.57	SoCal Auto & Truck Parts, Inc.	Tire Lube (2), Tape (10), 20in ExactFitBlade (10), Fab Loom-Split Poly (50)
14	14986	9/15	46.68	SoCalGas	Maint. Shop & Wash Rack - Sep 2023
15	14987	9/15	2,056.88	Tell Steel	Metal plates (6) Solid Waste trucks
16	14988	9/15	732.29	UniFirst Corporation	September - 2023
17			\$ 22,431.94	CHECKS SUBTOTAL	
18					
19				PAYROLL:	MEMO
20	ACH	9/20	97,587.12	Paychex	Employee Payroll - Checks, Taxes, Direct Deposits, & Pass-through Deductions
21			\$ 97,587.12	ACH TRANSFERS SUBTOTAL	
22					
23				ACH PAYMENTS:	MEMO
24		9/15	505.17	US Bank	Account Fees
25		9/20	383.28	Paychex	Time and Attendance September 2023
26			\$ 888.45	ACH TRANSFERS SUBTOTAL	
27					
28			\$ 120,907.51	TOTAL EXPENDITURES (ACCOUNTS PAYABLE CHECKS, PAYROLL, ACH TRANSFERS)	
29					
30				BANK TRANSFERS:	
31		9/22	250,000.00	Funds Transfer from Money Market to Checking	
32			\$ 250,000.00	BANK TRANSFERS	

AGENDA ITEM 7A

Date: October 03, 2023

To: Board of Directors

Prepared by: Siamlu Cox, Director of Finance and Human Resources

Subject: Approve Request of Solid Waste Driver Robert Mayfield to Receive 40 hours of Vacation Pay in Lieu of Time Off Due to Financial Hardship

BACKGROUND

Robert Mayfield began working at the District in November 1996 and currently receives 25 days of vacation per year. Under the 2015 Employees Memorandum of Understanding (MOU) effective July 1, 2015 employees are eligible for vacation payout in lieu of time off under the following requirements:

The MOU States:

ARTICLE 5

Vacation Leave

G. The policy of the DISTRICT is to encourage full utilization of vacation time off by all employees. However, each December, an employee may file an irrevocable request to cash-out up to eighty (80) hours of vacation leave. The DISTRICT shall pay each request in the first paycheck of January of the following year. In order to be eligible for this cash-out, the employee must have a remaining balance of at least forty (40) hours of accrued vacation after cashing-out and must have taken a minimum of forty (40) vacation hours in the prior twelve (12) months. Upon an employee's showing of an unforeseen financial hardship, the Board may grant an additional request that an employee be paid his/her regular rate of pay in lieu of taking up to forty (40) hours of his/her vacation time off in eight (8) hour increments. A decision on such a request is at the sole discretion of the Board of Directors and shall be decided on a case-by-case basis.

STAFF RECOMMENDATION

Staff recommends the Board review approve Robert Mayfield's request to receive 40 hours of vacation pay in lieu of time off due to financial hardship.

FISCAL IMPACT

Forty (40) hours at the employee's current rate of pay is \$1,224.40

Attachments:

1. Letter from Robert Mayfield RE: Financial hardship
2. Copy of a Vehicle Registration Renewal Notice for 2022.

AGENDA ITEM 7B

Date: October 3, 2023

To: Board of Directors

Prepared by: Robert Housley, General Manager

Subject: Approval of Amendment No. 2 to Professional Services Agreement with Rengel+CO Architects Incorporated for Additional Services in the Amount of \$16,850.49 for The District's Building and Solar Project

BACKGROUND / DISCUSSION

On September 1, 2020, the Board approved a Professional Services Agreement (Agreement) with Rengel+CO Architects, Incorporated (Rengel) to provide architectural and engineering design and construction support services for the District's Building Expansion and Occupied Renovation Project. The approved not-to-exceed compensation for the original scope of work under the Agreement that was \$243,100.00, which was based on an estimated construction cost of \$2,550,000 and a specific scope of work. The actual award for construction exceeded the original estimate. On April 16, 2022, the Board awarded Woodcliff Corporation the construction contract for the Project in the amount of \$5,499,483.

After awarding the construction contract for the Project, several unforeseen and District changes occurred. The original scope of work changed to reassigning the solar canopy work, expansion of the guest lobby area, installing computer, and low voltage cables for security and a camera system. In addition, after the project was designed, the City of Westminster required the District to submit a separate Architectural plan for landscape for review and approval. These Project changes resulted in increased costs for related additional architectural, engineering design, and construction support services. Accordingly, on February 7, 2023, the Board approved Amendment No. 1 to the Agreement with Rengel+CO Architects in the amount of \$278,702.50, plus approval for the General Manager to approve up to an additional \$25,000 in change orders, bringing the total contract amount up to \$546,802.50.

On September 27, 2023, Rengel+CO Architects submitted a proposed Authorization for Additional Services in the amount of \$16,850.49. The additional services are a result of changes requested by the District for items such as the solar array/carport and IT/Audio Visual architectural planning, as well as additional construction management and inspection services necessitated by project changes and unforeseen circumstances. The proposed Authorization of Additional Services and related backup documentation is attached to this Report.

Unforeseen circumstances and the construction contract amount are the biggest reasons for the additional cost, including an unfavorable soils report that required a major revision

to the foundation for the two front buildings to be able to stay connected without separating and sinking. This was a major change to the scope of work and required additional revisions to many other structural components, as well. The construction management / support cost is calculated at 2.5% of the estimated cost of the Project, and changes to the Project have resulted in additional construction management and support costs.

Rengel has provided an authorization for additional services that coordinates with the extra work and necessary changes for the Board's consideration. The additional costs total \$16,850.49, bringing the total contract amount to \$563,652.99.

Regnel+CO Architects is the architect and provides construction support services and is responsible for oversight of the complete building remodel and solar project. The agreement for their services is separate from the agreement the District has with the General Contractor, Woodcliff Corporation. This authorization covers the costs incurred and associated with Rengel+CO Architects; the Board of Directors have already approved the work and costs associated with Woodcliff Corporation.

RECOMMENDATION

Staff recommends that the Board of Directors approve and authorize the General Manager to execute Amendment No. 1 to the Professional Services Agreement with Regnel+CO Architects, Incorporated to provide architectural and engineering design and construction support services for the District's Building Expansion and Occupied Renovation Project.

FISCAL IMPACT

Original Contract amount was	\$243,100.00
Additional services 02.21.2023	\$278,702.50
Additional GM authorized change orders	\$ 25,000.00
Additional services 09.27.2023	\$ 16,850.49
New total contract amount is	\$563,652.99

Attachments:

1. Authorization for Additional Services 09.27.23
2. Amendment No. 2



Authorization for Additional Services

Project: **Midway City Sanitary District, Westminster**

Client: **Robert Housley, General Manager**
Midway City Sanitary District
14451 Cedarwood Ave, Westminster CA 92683

Date: 27-Sep-23
Attention: Robert Housley
RCA Job #: 202041.06

We have been directed to make the following changes in this Contract:

A. Construction Management Services reconcillation	12,437.99
CM Services re-budget from contract construction budget	
original proposal: \$60,000 (2.25% x \$2,550,000)	
Updated proposal 1/31: \$124,684 (2.25% x \$5,541,500)	
Updated proposal 9/27:	
2.25% x \$5,769,828	129,821
2.25% x \$73,550 delete roll ups	1,655
Credit 1/31 Update&base:	(124,684)
	\$ 6,792
Solar array Construction Mgmt 9/1 reconcillation:	
2.25% x \$667,377 =	15,016
Credit from Authorization 05:	(9,370)
	\$ 5,646
D. Misc Architectural Additional Services	
Audio/Visual architecture and plan draft	2,000.00
PRIN 1 1.0 hrs x 300 /hr	300.00
PRIN 2 6.0 hrs x 200 /hr	1,200.00
CAD 1 4.0 hrs x 125 /hr	500.00
E. Soils inspections	
Additional soils compaction inspection before concrete flatwork pour. (estimated)	1,500.00
F. Proposed revisions: allowance for revision time to approved plans:	
Alternate landscape schematic no charge	
Alternate landscape cstr docs TBD, may not be necessary	
Furnishing coordination with designer	1,200.00
Structural Engineering (see attached)	
Auth #5 allowance	5,000.00
2 site vist credit per contract	800.00
Actual (see attached)	6,712.50
Total:	\$ 16,850.49

The Original Contract Sum was	\$ 243,100.00
Net Change by previously authorized Additional Services.....	\$ 278,702.50
The Contract sum prior to this Change Order was.....	\$ 521,802.50
The Contract sum will be increased by this Change Order.....	\$ 16,850.49
The new Contract Sum, including this Change Order will be.....	\$ 538,652.99

Agreed to:

Agreed to:

For Midway City Sanitary District
14451 Cedarwood Ave, Westminster, CA


Rengel+Company, Architects
333 El Camino Real, Tustin, CA 92780

09.27.2023

Work will not proceed further until a signed approval of this document is received by our office

X Work has partially underway. As verbally instructed and in consideration of timing, please expedite signed approval.

333 El Camino Real, Tustin, California 92780 714.832.3333

WA Consulting Engineers

180 S. Prospect Ave., Suite 110
Tustin, CA 92780

(714) 838-9898 ph. (714) 838-9899 fx.

INVOICE	
DATE	NUMBER
5/26/2023	23057

Bill To:
Rengel Architects 3333 ElCamino Real Tustin CA92780

DUE DATE
6/25/2023

WA Project No.: 120-0064.CA
Client Project No.: 202041
Client PM: Sadia Syed

Project Name: Midway City _ Sanitary 14451 Cedarwood St.

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
1	Construction administration: Review concrete mix design, CMU submittals, steel submittals	1	1200.00	1200.00
2	Jobsite visit to review existing framing condition above board room and provided sketches on 8.5x11	5.5	175.00	962.50
3	Foundation observation for building extension	1	400.00	400.00
4	Foundation observation for restroom building	1	400.00	400.00
5	First floor framing observation for building extension	1	400.00	400.00
6	Revised shear wall for new window opening	1	1200	1200.00
Note	One observation was not charged, GC mistakenly foundation observation was not performed for the building extension.			0.00
ITEM	REIMBURSEABLE	QTY	RATE	AMOUNT
	Payment Chk 10% Administration Fee	0	0	0.00

PLEASE MAKE CHECK PAYABLE TO:

WA Consulting Engineers
180 S. Prospect Ave., Suite 110
TUSTIN, CA 92780

TOTAL	\$4,562.50
Payment/Credit	\$0.00
Balance Due	\$4,562.50

Late charges of 1.5% per month will be added on to any unpaid balance due

THANK YOU FOR YOUR BUSINESS
WA Consulting Engineers

WA Consulting Engineers

180 S. Prospect Ave., Suite 110
Tustin, CA 92780

(714) 838-9898 ph. (714) 838-9899 fx.

Bill To:
Rengel Architects 3333 ElCamino Real Tustin CA92780

INVOICE	
DATE	NUMBER
7/25/2023	23074

DUE DATE
8/24/2023

RMB

WA Project No.: 120-0064.CA
Client Project No.: 202041
Client PM: Sadia Syed

Project Name: Midway City _ Sanitary 14451 Cedarwood St.

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
1	Construction administration: Review concrete mix design, CMU submittals, steel submittals	1	1200.00	1200.00
2	First floor framing observation for building extension	1	400.00	400.00
ITEM	REIMBURSEABLE	QTY	RATE	AMOUNT
	Payment Chk 10% Administration Fee	0	0	0.00

POSTNET

PLEASE MAKE CHECK PAYABLE TO:

WA Consulting Engineers 180 S. Prospect Ave., Suite 110 TUSTIN, CA 92780

TOTAL	\$1,600.00
Payment/Credit	\$0.00
Balance Due	\$1,600.00

Late charges of 1.5% per month will be added on to any unpaid balance due

THANK YOU FOR YOUR BUSINESS
WA Consulting Engineers

INV# 20204138 8/30/23

WA Consulting Engineers

180 S. Prospect Ave., Suite 110
Tustin, CA 92780

(714) 838-9898 ph. (714) 838-9899 fx.

Bill To:
Rengel Architects 3333 ElCamino Real Tustin CA92780

INVOICE	
DATE	NUMBER
7/25/2023	23072

DUE DATE
8/24/2023

RMB

WA Project No.: 120-0064.CA
Client Project No.: 202041
Client PM: Sadia Syed

Project Name: Midway City _ Sanitary 14451 Cedarwood St.

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
1	Site observation for wall and roof framing on 7/18/2023	1	400.00	400.00
2	Issued a new detail for missing strap for rest room canopy framing attached to CMU wall (signed and stamped)	1	150.00	150.00
				0.00
ITEM	REIMBURSEABLE	QTY	RATE	AMOUNT
	Payment Chk 10% Administration Fee	0	0	0.00

 **POSTED**

PLEASE MAKE CHECK PAYABLE TO:

WA Consulting Engineers 180 S. Prospect Ave., Suite 110 TUSTIN, CA 92780

TOTAL	\$550.00
Payment/Credit	\$0.00
Balance Due	\$550.00

Late charges of 1.5% per month will be added on to any unpaid balance due

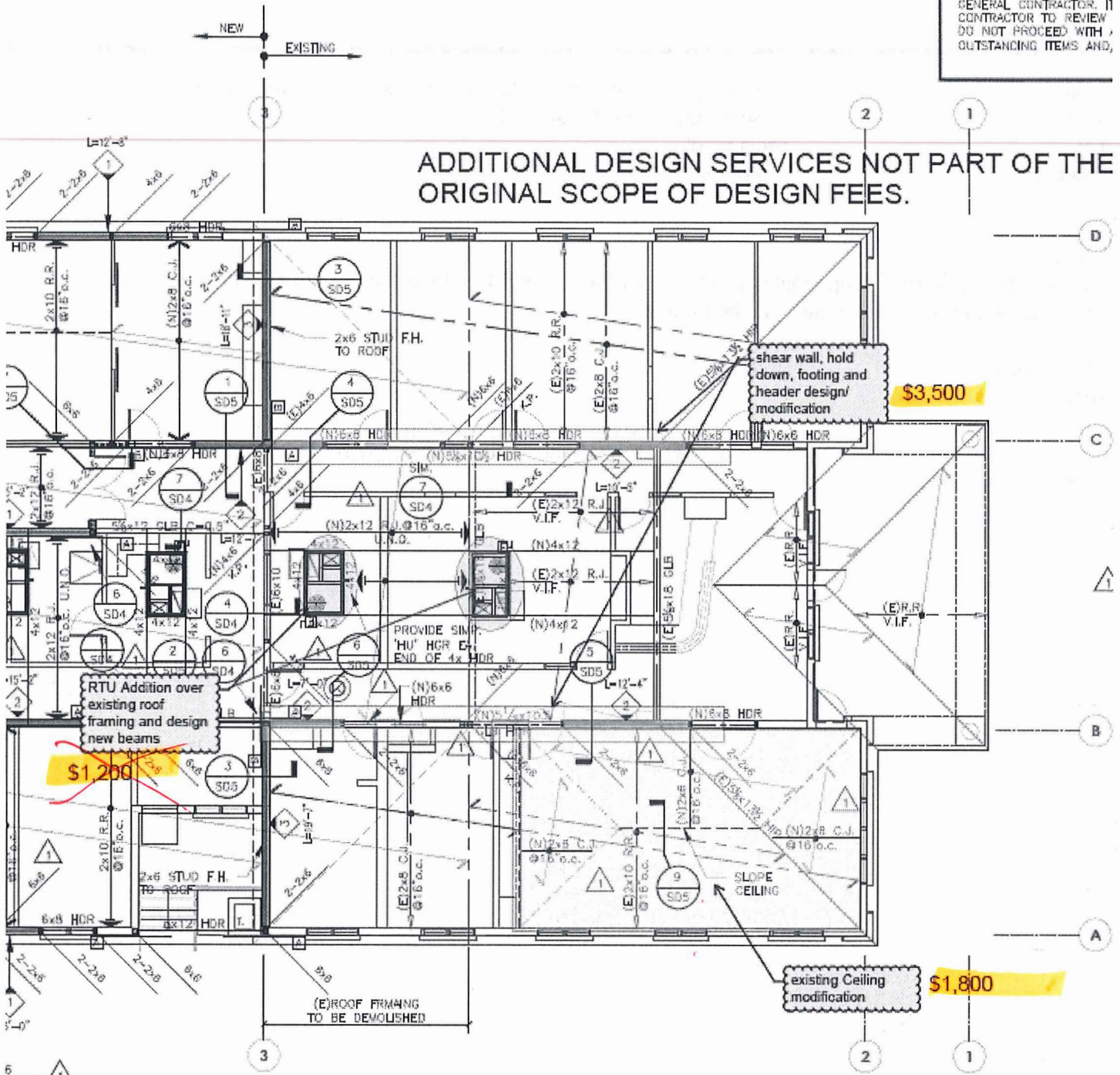
THANK YOU FOR YOUR BUSINESS
WA Consulting Engineers

original chet for struc site visits exceeded bill as RMB

Inv# 20204138 8/30/23

ADDITIONAL COST AFTER GENERAL CONTRACTOR. IF CONTRACTOR TO REVIEW DO NOT PROCEED WITH OUTSTANDING ITEMS AND,

ADDITIONAL DESIGN SERVICES NOT PART OF THE ORIGINAL SCOPE OF DESIGN FEES.



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

2.25% Construction Management option: Rengel+Company, Architects is a licensed California general contractor with a Class B license #480056. The fee is based on award of the Architectural contract and is 2.25% of the estimated construction cost of \$2.55M	\$ 57,352
--	-----------

***NOTES/Qualifications:**

- a. "DAYS" are working days, M-F; 5 DAYS = 1 WEEK
- b. "Produce Construction Documents" (#2) includes 60 days to produce drawings plus 15 days allowance for corrections. Time budget line does not include time for City Review, estimated at 30 days (6 weeks) with current city workload (#5).
- c. Consultants/Engineering (#3) will run concurrently with #2 and between themselves in "Engineering Services" #1-5
- d. Fire Sprinklers are not required in for buildings <9000SF and not included or shall be design-build with the GC.
- e. Site visits by engineers limited to: Civil/Structural (2), MEP (1). Additional visits \$500
- f. Per the Q&A, it was suggested to provide as-builts of all underground utilities, which would require an underground utility scan. The project can be completed without this, but to provide an underground utility scan is an additional cost of \$19,000



Authorization for Additional Services

Project: **Midway City Sanitary District, Westminster**

Client: Robert Housley, General Manager	Date: 24-Jan-23
Midway City Sanitary District	Attention: Robert Housley
14451 Cedarwood Ave, Westminster CA 92683	RCA Job #: 202041.05

We have been directed to make the following changes in this Contract:

- A. Architectural/Structural coordination Solar Canopy**
 Bid process not effective, assign Solar Canopy to Woodcliff: estimate hourly time to coordinate (final hours may vary):

Principal 1	15.0 hrs x	250 /hr	3,750.00
Principal 2	25.0 hrs x	200 /hr	5,000.00
Cadd 1	35.0 hrs x	110 /hr	3,850.00
Clerical	8.0 hrs x	65 /hr	520.00
			9,370.00

 - B. Construction Management Services reconciliation** 64,650.00
 CM Services re-budget from contract construction budget
 original proposal: \$60,000 (2.25% x \$2,550,000)
 updated proposal: \$124,684 (2.25% x \$5,541,500)

 - C. Revise conventional concrete footing to structural mat foundation** 74,000.00
 Original architectural/structural foundation was to be conventional slab-on-grade with perimeter footing. Following soil report, unstable soil conditions will require a structural mat foundation to (a) support the proposed structure both laterally and bearing and (b) tie the new addition to the existing structure without lateral movement between buildings. Services include architectural services for additional detailing and coordination with engineers, structural engineering for lateral/vertical loading, shear, and foundation design, soils engineer coordination and redesign of interior framing to new structural system.

 - C. Soils Engineering construction special inspections (see attached)** 4,207.50

 - D. Misc Additional Services** 3,550.00
 City lost landscape plans, resubmittal, general City processing

PRIN 1	1.5 hrs x	300 /hr	300.00
PRIN 2	10.0 hrs x	200 /hr	2,000.00
CAD 1	10.0 hrs x	125 /hr	1,250.00

 - E. Proposed revisions: allowance for revision time to approved plans:** 28,000.00
 Floor plan, doors, roll-ups, reviews for PM changeover (Ken to Robert), add windows, furnishings, low voltage systems, security, cameras, etc. (allowance only, final hours may vary, not-to-exceed without additional authorization)
 Structural Engineering 5,000.00
- Total: \$ 188,777.50**

The Original Contract Sum was	\$ 243,100.00
Net Change by previously authorized Additional Services.....	\$ 89,925.00
The Contract sum prior to this Change Order.....	\$ 333,025.00
The Contract sum will be increased by this Change Order.....	\$ 188,777.50
The new Contract Sum, including this Change Order will be.....	\$ 521,802.50

Agreed to: _____
 For Midway City Sanitary District
 14451 Cedarwood Ave, Westminster, CA

Agreed to:
 Rengel+Company Architects 01.31.2023
 333 El Camino Real, Tustin, CA 92780

Work will not proceed further until a signed approval of this document is received by our office

Work has partially underway. As verbally instructed and in consideration of timing, please expedite signed approval.

333 El Camino Real, Tustin, California 92780 714.832.3333

AMENDMENT NO. 2 TO PROFESSIONAL SERVICES AGREEMENT

THIS AMENDMENT NO. 2 TO PROFESSIONAL SERVICES AGREEMENT ("Amendment No. 1") is made and entered into by and between **MIDWAY CITY SANITARY DISTRICT**, a public entity ("DISTRICT") and **RENGEL + COMPANY ARCHITECTS, INCORPORATED**, a California corporation. ("CONSULTANT"), effective October 3, 2023.

RECITALS

A. This Amendment No. 2 is entered into pursuant to authorization of the DISTRICT's Board of Directors dated October 3, 2023.

B. DISTRICT and CONSULTANT are parties to that certain Professional Services Agreement (the "Agreement"), dated September 1, 2020, for CONSULTANT to provide Architectural and Engineering Design and Construction Support Services for the MCSD Expansion & Occupied Renovation Project (the "Project").

C. DISTRICT and CONSULTANT previously entered into that Amendment No. 1 to the Agreement on February 7, 2023 to incorporate additional services of CONSULTANT related to the Project

D. DISTRICT and CONSULTANT desire to further amend the Agreement to incorporate additional services of CONSULTANT related to the Project.

AGREEMENT

NOW, THEREFORE, in consideration of the promises and mutual covenants contained herein, DISTRICT and CONSULTANT agree as follows:

1. Section 2 (Services to be Provided) of the Agreement is hereby amended to include the additional services described in the Authorization for Additional Services attached as Exhibit "A" to this Amendment No. 2. Exhibit "A" is hereby incorporated into CONSULTANT's Proposal and the Contract Documents.
2. Section 3.1 (Amount) of the Agreement is hereby amended to read as follows:
 - 3.1 Amount. Compensation for the services performed under this Agreement shall be per the Pricing schedule included in the Proposal. In no case shall total compensation paid to CONSULTANT under this Agreement exceed the amount of Five Hundred Sixty-Three Thousand Six Hundred Two Dollars and Ninety-Nine Cents (\$563,652.99).
3. Except as otherwise expressly provided in this Amendment No. 2, all of the terms and conditions of the Agreement remain in full force and effect.

4. This Amendment No. 2 may be executed in counterparts, all of which shall constitute the same Agreement, notwithstanding that all parties to this Amendment No. 2 are not signatory to the same counterpart. Signature and acknowledgement pages may be detached from the counterparts and attached to a single copy of this Amendment No. 2 to physically form one (1) original document. These counterparts may be transmitted by facsimile or Portable Document Format (PDF), with the originals to be thereafter provided by the Parties. Such facsimiles or electronic copies shall be deemed original signatures.

IN WITNESS THEREOF, DISTRICT and CONSULTANT have caused this Agreement to be executed by their duly authorized respective officers as of the date first written above.

**"DISTRICT"
MIDWAY CITY SANITARY
DISTRICT**

**"CONSULTANT"
RENGEL + COMPANY
ARCHITECTS, INCORPORATED**

By:

By:

Robert Housley,
Interim General Manager

Name:

Title:

APPROVED AS TO FORM

By:

James H. Eggart, General Counsel

Name:

Date: _____

Title:

EXHIBIT "A"
AUTHORIZATION FOR ADDITIONAL SERVICES

AGENDA ITEM 9A

Date: October 3, 2023

To: Board of Directors

Prepared by: Siamlu Cox, Director of Finance and Human Resources

Subject: Review, Receive, and File the CalPERS June 30, 2022 Annual Valuation Reports for the District’s Pension Plans

BACKGROUND

The most recent CalPERS retirement annual valuation reports became available in August 2023.

The Midway City Sanitary District (District) provides a defined benefit pension benefit to its employees through CalPERS, which manages and administers the program. Annually, CalPERS prepares annual actuarial analyses to determine the District’s pension liability and annual required contributions for the plans. The actuarial valuations are based on current employees’ accrued benefit, former employees who are vested but have yet to retire, and retired employees.

CalPERS program maintains the District’s three (3) retirement groups:

- Tier 1 3%@60 Hired on or before March 21, 2010
- Tier 2 2%@55 Hired on or after March 22, 2010 (classic employees)
- PEPRA 2%@62 Hired on or after January 1, 2013

Pension Plan Funding Status

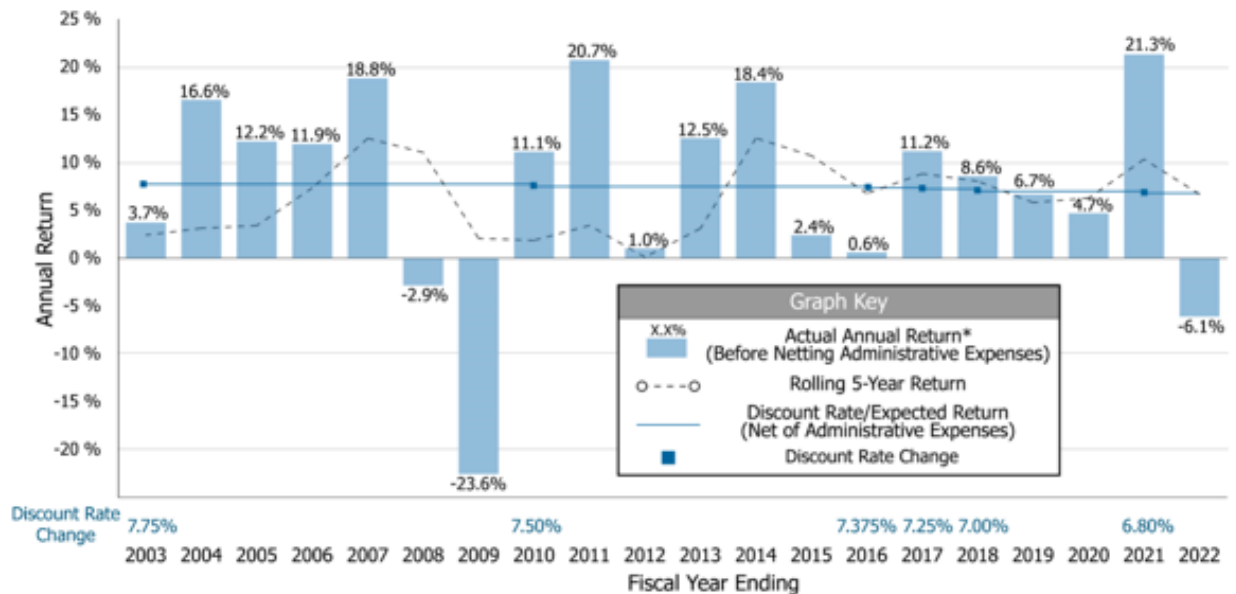
A summary of the District’s employer contribution, pension liability, and current funding status for the District’s three plans are shown below and can be found in the valuation reports.

	2023-24 Employer Contributions	2023-24 Employee Contributions	June 30, 2022 Funding Ratio	Unfunded Accrued Liability
Tier 1 (3%@60)	17.33%	8.00%	93.40%	\$1,407,730
Tier 2 (2%@55)	12.52%	7.00%	93.50%	\$32,800
PEPRA (2%@62)	7.87%	7.75%	90.90%	\$66,296
Total Unfunded Accrued Liability				\$1,506,826

Changes in unfunded liabilities can emerge due to assumption or method changes, changes in plan provisions, and actuarial experience different than those assumed in the attached valuation reports. A staff report presented in September 2022 showed the plans to be superfunded as a result of a 21.3% investment return in Fiscal Year 2020-2021. The

return reflected in the Fiscal Year 2021-22 valuations show an annual return of -6.1%. As a result of the negative return, the District's pension liability now has a shortfall. The chart below shows the 10-year history of investment returns of CalPERS pooled funds.

History of Investment Returns (2003 - 2022)



The District has historically chosen to pay the unfunded liabilities early and in full. The minimum Unfunded Accrued Liability (UAL) for Fiscal Year 2024-25 is \$53,981. To be fully funded, the District would have to make a total contribution of \$1,506,826. A full payment of the UAL has the potential to save \$1,365,235 in interest.

Employer and Employee Normal Cost

The Normal Cost is the minimum required contribution which is calculated as a percentage of earnings. Employees will not have an additional cost of contribution because Classic Tier 1 and Tier 2 employee contributions are fixed by statute, and PEPPRA employee contributions are not forecasted to increase. The Normal Cost for the District will increase by 0.24% collectively and will be budgeted in the upcoming FY2024-25 Budget.

Funding Source

In 2018, the District established a 115 CEPPT trust fund to help mitigate pension costs and payments. As of June 30, 2023 the market value of the 115 CEPPT fund was \$4,921,960.54. Staff will evaluate the market condition of the 115 CEPPT fund and determine if the additional discretionary payment should be funded through general funds or a drawdown of the 115 CEPPT fund. When the opportunity is available, the District may also continue to contribute to its CEPPT 115 trust fund to mitigate future pension contributions and payments.

RECOMMENDATION

Staff recommends that the Board authorize staff to pay \$1,506,826 to pay the unfunded liability in full.

FISCAL IMPACT

The minimum required UAL portion of the employer contribution for Fiscal Year 2024-25 is \$53,981, and it can be made in monthly payments throughout the fiscal year. If the District pays the required UAL on or before July 31, 2024, then there is a potential saving of \$1,747. The payment will be proposed in the District’s Fiscal Year 2024-25 budget for board approval.

The Fiscal Year 2023-24 budget did not budget for additional discretionary payments because the pension plans were superfunded. In order to fully fund the District’s pension plans and potentially to save \$1,365,235, the Board must authorize an additional payment of an amount not to exceed \$1,506,826 from the current fiscal year budget.

Attachments:

- 1. CalPERS First Tier Annual Valuation Report as of June 30, 2022 (pink)
- 2. CalPERS Second Tier Annual Valuation Report as of June 30, 2022 (purple)
- 3. CalPERS PEPRA Plan Annual Valuation Report as of June 30, 2022 (blue)



**California Public Employees' Retirement System
Actuarial Office**

400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744
888 CalPERS (or 888-225-7377) | TTY: (877) 249-7442 | www.calpers.ca.gov

July 2023

**Miscellaneous First Tier Plan of the Midway City Sanitary District (CalPERS ID: 6882866561)
Annual Valuation Report as of June 30, 2022**

Dear Employer,

Attached to this letter is the June 30, 2022 actuarial valuation report for the rate plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2024-25.** In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2022.

Section 2 can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to "Forms & Publications" and select "View All". In the search box, enter "Risk Pool" and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2022.

Actuarial valuations are based on assumptions regarding future plan experience including investment return and payroll growth, eligibility for the types of benefits provided, and longevity among retirees. The CalPERS Board of Administration (board) adopts these assumptions after considering the advice of CalPERS actuarial and investment teams and other professionals. Each actuarial valuation reflects all prior differences between actual and assumed experience and adjusts the contribution requirements as needed. This valuation is based on an investment return assumption of 6.8%, which was adopted by the board in November 2021. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from November 2021.

Required Contributions

The table below shows the minimum required employer contributions for FY 2024-25 along with estimates of the required contributions for FY 2025-26. Employee contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability
2024-25	17.33%	\$50,760
<i>Projected Results</i>		
2025-26	17.3%	\$75,000

The actual investment return for FY 2022-23 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 6.8%. **To the extent the actual investment return for FY 2022-23 differs from 6.8%, the actual contribution requirements for FY 2025-26 will differ from those shown above.** For additional details regarding the assumptions and methods used for these projections, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This section also contains projected required contributions through FY 2029-30.

Changes from Previous Year's Valuations

There are no significant changes in actuarial assumptions or policies in the 2022 actuarial valuation. There may be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in "Highlights and Executive Summary" and in Appendix A of the Section 2 report in "Actuarial Methods and Assumptions." The effects of any changes on the required contributions are included in "Reconciliation of Required Employer Contributions," also in the Section 2 report.

Questions

A CalPERS actuary is available to answer questions about this report. Other questions may be directed to the Customer Contact Center at (888)-CalPERS or (888-225-7377).

Sincerely,



SCOTT TERANDO, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS



RANDALL DZIUBEK, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



**Actuarial Valuation
as of June 30, 2022**

**for the
Miscellaneous First Tier Plan
of the
Midway City Sanitary District
(CalPERS ID: 6882866561)**

**Required Contributions
for Fiscal Year
July 1, 2024 - June 30, 2025**

Table of Contents

Section 1 – Plan Specific Information

Section 2 – Risk Pool Actuarial Valuation Information

Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Plan Specific Information for the Miscellaneous First Tier Plan of the Midway City Sanitary District

**(CalPERS ID: 6882866561)
(Rate Plan ID: 8583)**

Table of Contents

Actuarial Certification	1
Highlights and Executive Summary	
Introduction	3
Purpose of Section 1	3
Required Contributions	4
Additional Discretionary Employer Contributions	5
Funded Status – Funding Policy Basis	6
Projected Employer Contributions	7
Other Pooled Miscellaneous Risk Pool Rate Plans	8
Cost	9
Changes Since the Prior Year's Valuation	10
Subsequent Events	10
Assets and Liabilities	
Breakdown of Entry Age Accrued Liability	12
Allocation of Plan's Share of Pool's Experience/Assumption Change	12
Development of Plan's Share of Pool's Market Value of Assets	12
Schedule of Amortization Bases	13
Amortization Schedule and Alternatives	14
Employer Contribution History	16
Funding History	16
Risk Analysis	
Future Investment Return Scenarios	18
Discount Rate Sensitivity	19
Mortality Rate Sensitivity	19
Maturity Measures	20
Maturity Measures History	21
Funded Status – Termination Basis	22
Participant Data	23
List of Class 1 Benefit Provisions	23
Plan's Major Benefit Options	24

Actuarial Certification

To the best of our knowledge, this report, comprised of Sections 1 and 2, is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the Miscellaneous First Tier Plan of the Midway City Sanitary District and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation is based on the member and financial data as of June 30, 2022 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Midway City Sanitary District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the Miscellaneous Risk Pool has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the rate plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2022 and employer contribution as of July 1, 2024 have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary who satisfies the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* with regard to pensions.



KERRY J. WORGAN, MAAA, FSA, FCIA
Supervising Actuary, CalPERS

Highlights and Executive Summary

- **Introduction**
- **Purpose of Section 1**
- **Required Contributions**
- **Additional Discretionary Employer Contributions**
- **Funded Status – Funding Policy Basis**
- **Projected Employer Contributions**
- **Other Pooled Miscellaneous Risk Pool Rate Plans**
- **Cost**
- **Changes Since the Prior Year’s Valuation**
- **Subsequent Events**

Introduction

This report presents the results of the June 30, 2022 actuarial valuation of the Miscellaneous First Tier Plan of the Midway City Sanitary District of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the minimum required contributions for fiscal year (FY) 2024-25.

Purpose of Section 1

This Section 1 report for the Miscellaneous First Tier Plan of the Midway City Sanitary District of CalPERS was prepared by the Actuarial Office using data as of June 30, 2022. The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of this rate plan as of June 30, 2022;
- Determine the minimum required employer contributions for this rate plan for FY July 1, 2024 through June 30, 2025;
- Determine the required member contribution rate for FY July 1, 2024 through June 30, 2025 for employees subject to the California Public Employees' Pension Reform Act of 2013 (PEPRA); and
- Provide actuarial information as of June 30, 2022 to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact the plan actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the guidance of Actuarial Standard of Practice No. 51 and recommended by the California Actuarial Advisory Panel (CAAP) in the Model Disclosure Elements document:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.

Required Contributions

	Fiscal Year 2024-25
Required Employer Contributions	
Employer Normal Cost Rate	17.33%
<i>Plus</i>	
Required Payment on Amortization Bases ¹	\$50,760
<i>Paid either as</i>	
1) Monthly Payment	\$4,230.00
<i>Or</i>	
2) Annual Prepayment Option*	\$49,117
<i>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).</i>	
<i>* Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31).</i>	

	Fiscal Year 2023-24	Fiscal Year 2024-25
Development of Normal Cost as a Percentage of Payroll		
Base Total Normal Cost for Formula	24.25%	24.32%
Surcharge for Class 1 Benefits ²		
a) FAC 1	0.82%	0.82%
Phase out of Normal Cost Difference ³	0.00%	0.00%
Plan's Total Normal Cost	25.07%	25.14%
Offset Due to Employee Contributions	7.81%	7.81%
Employer Normal Cost Rate	17.26%	17.33%

¹ The required payment on amortization bases does not take into account any additional discretionary payment made after April 28, 2023.

² Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges.

³ When a rate plan joins the pool, the difference in normal cost between the pool and the rate plan is phased out over a five-year period in accordance with the CalPERS contribution allocation policy.

Additional Discretionary Employer Contributions

The minimum required employer contribution towards the Unfunded Accrued Liability (UAL) for this rate plan for FY 2024-25 is \$50,760. CalPERS allows agencies to make additional discretionary payments (ADPs) at any time and in any amount. These optional payments serve to reduce the UAL and future required contributions and can result in significant long-term savings. Agencies can also use ADPs to stabilize annual contributions as a fixed dollar amount, percent of payroll or percent of revenue.

Provided below are select ADP options for consideration. Making such an ADP during FY 2024-25 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see the "Amortization Schedule and Alternatives" section of the report.

Agencies considering making an ADP should contact CalPERS for additional information.

Minimum Required Employer Contribution for Fiscal Year 2024-25

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
\$170,866	\$50,760	\$0	\$50,760	\$221,626

The minimum required contribution above is less than interest on the UAL. With no ADP the UAL is projected to increase over the following year. If the minimum UAL payment were split between interest and principal, the principal portion would be negative. This situation is referred to as **negative amortization**. If only the minimum required contribution is made, contributions are not expected to exceed interest on the UAL until FY **2026-27**, as shown in the "Amortization Schedule and Alternatives" section of the report (see columns labeled "Current Amortization Schedule").

Fiscal Year 2024-25 Employer Contribution Necessary to Avoid Negative Amortization

Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
\$170,866	\$50,760	\$41,868	\$92,628	\$263,494

Alternative Fiscal Year 2024-25 Employer Contributions for Greater UAL Reduction

Funding Horizon	Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
20 years	\$170,866	\$50,760	\$75,828	\$126,588	\$297,454
15 years	\$170,866	\$50,760	\$96,916	\$147,676	\$318,542
10 years	\$170,866	\$50,760	\$141,394	\$192,154	\$363,020
5 years	\$170,866	\$50,760	\$279,685	\$330,445	\$501,311

¹ The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

Note that the calculations above are based on the projected UAL as of June 30, 2024 as determined in the June 30, 2022 actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Funded Status – Funding Policy Basis

The table below provides information on the current funded status of the plan under the funding policy. The funded status for this purpose is based on the market value of assets relative to the funding target produced by the entry age actuarial cost method and actuarial assumptions adopted by the board. The actuarial cost method allocates the total expected cost of a member's projected benefit (**Present Value of Benefits**) to individual years of service (the **Normal Cost**). The value of the projected benefit that is not allocated to future service is referred to as the **Accrued Liability** and is the plan's funding target on the valuation date. The **Unfunded Accrued Liability (UAL)** equals the funding target minus the assets. The UAL is an absolute measure of funded status and can be viewed as employer debt. The **funded ratio** equals the assets divided by the funding target. The funded ratio is a relative measure of the funded status and allows for comparisons between plans of different sizes.

	June 30, 2021	June 30, 2022
1. Present Value of Benefits	\$20,137,856	\$20,219,393
2. Entry Age Accrued Liability	18,164,306	18,689,899
3. Market Value of Assets (MVA)	19,836,711	17,460,452
4. Unfunded Accrued Liability (UAL) [(2) – (3)]	(\$1,672,405)	\$1,229,447
5. Funded Ratio [(3) / (2)]	109.2%	93.4%

A funded ratio of 100% (UAL of \$0) implies that the funding of the plan is on target and that future contributions equal to the normal cost of the active plan members will be sufficient to fully fund all retirement benefits if future experience matches the actuarial assumptions. A funded ratio of less than 100% (positive UAL) implies that in addition to normal costs, payments toward the UAL will be required. Plans with a funded ratio greater than 100% have a negative UAL (or surplus) but are required under current law to continue contributing the normal cost in most cases, preserving the surplus for future contingencies.

Calculations for the funding target reflect the expected long-term investment return of 6.8%. If it were known on the valuation date that future investment returns will average something greater/less than the expected return, calculated normal costs and accrued liabilities provided in this report would be less/greater than the results shown. Therefore, for example, if actual average future returns are less than the expected return, calculated normal costs and UAL contributions will not be sufficient to fully fund all retirement benefits. Under this scenario, required future normal cost contributions will need to increase from those provided in this report, and the plan will develop unfunded liabilities that will also add to required future contributions. For illustrative purposes, funded statuses based on a 1% lower and higher average future investment return (discount rate) are as follows:

	1% Lower Average Return	Current Assumption	1% Higher Average Return
Discount Rate	5.8%	6.8%	7.8%
1. Entry Age Accrued Liability	\$20,950,707	\$18,689,899	\$16,790,318
2. Market Value of Assets (MVA)	17,460,452	17,460,452	17,460,452
3. Unfunded Accrued Liability (UAL) [(1) – (2)]	\$3,490,255	\$1,229,447	(\$670,134)
4. Funded Ratio [(2) / (1)]	83.3%	93.4%	104.0%

The "Risk Analysis" section of the report provides additional information regarding the sensitivity of valuation results to the expected investment return and other factors. Also provided in that section are measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities.

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2022-23 is assumed to be 6.80% per year, net of investment and administrative expenses. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2022-23 and Beyond)				
Fiscal Year	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Rate Plan 8583 Results					
Normal Cost %	17.33%	17.3%	17.3%	17.3%	17.3%	17.3%
UAL Payment	\$50,760	\$75,000	\$98,000	\$122,000	\$146,000	\$146,000

For ongoing plans, investment gains and losses are amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large investment loss, the relatively small amortization payments during the ramp up period could result in contributions that are less than interest on the UAL (i.e. negative amortization) while the contribution impact of the increase in the UAL is phased in.

The required contribution for FY 2024-25 is less than interest on the UAL, a situation referred to as **negative amortization**, as explained in the "Additional Discretionary Employer Contributions" section earlier in this report. If only the minimum required contribution is made, contributions are not expected to exceed interest on the UAL until FY 2026-27, as shown in the "Amortization Schedule and Alternatives" section of the report (see columns labelled "Current Amortization Schedule").

For projected contributions under alternate investment return scenarios, please see the "Future Investment Return Scenarios" in the "Risk Analysis" section. Our online pension plan projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

Other Pooled Miscellaneous Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown on this page, correspond to rate plan 8583. In many cases, employers have additional rate plans within the same risk pool. For cost analysis and budgeting it is useful to consider contributions for these rate plans as a whole rather than individually. The estimated contribution amounts and rates for all of the employer's rate plans in the Miscellaneous Risk Pool are shown below and assume that the total employer payroll within the Miscellaneous Risk Pool will grow according to the overall payroll growth assumption of 2.80% per year for three years. In a refinement since the prior year's report, Classic members who are projected to terminate employment are assumed to be replaced by PEPRAs members.

	Fiscal Year	Fiscal Year
	2023-24	2024-25
Estimated Combined Employer Contributions for all Pooled Miscellaneous Rate Plans		
Projected Payroll for the Contribution Year	\$2,078,616	\$2,280,727
Estimated Employer Normal Cost	\$298,080	\$277,246
Required Payment on Amortization Bases	\$0	\$53,981
Estimated Total Employer Contributions	\$298,080	\$331,227
Estimated Total Employer Contribution Rate (illustrative only)	14.34%	14.52%

Cost

Actuarial Determination of Plan Cost

Contributions to fund the plan are comprised of two components:

- Normal Cost, expressed as a percentage of total active payroll
- Amortization of the Unfunded Accrued Liability (UAL), expressed as a dollar amount

For fiscal years prior to 2015-16, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with FY 2015-16, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There is an option to prepay this amount during July of each fiscal year.

The Normal Cost component is expressed as a percentage of active payroll with employer and employee contributions payable as part of the regular payroll reporting process.

The determination of both components requires complex actuarial calculations. The calculations are based on a set of actuarial assumptions which can be divided into two categories:

- Demographic assumptions (e.g., mortality rates, retirement rates, employment termination rates, disability rates)
- Economic assumptions (e.g., future investment earnings, inflation, salary growth rates)

These assumptions reflect CalPERS' best estimate of future experience of the plan and are long term in nature. We recognize that all assumptions will not be realized in any given year. For example, the investment earnings at CalPERS have averaged 6.9% over the 20 years ending June 30, 2022, yet individual fiscal year returns have ranged from -23.6% to +21.3%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2021.

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" in this report and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

In 2022, SB 1168 increased the standard retiree lump sum death benefit from \$500 to \$2,000 for any death occurring on or after July 1, 2023. For pooled plans this is a Class 3 benefit and there is no normal cost surcharge. The impact on the unfunded liability is included in the pool's (gain)/loss.

Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods or assumptions for the June 30, 2022 actuarial valuation.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2022 and statutory/regulatory changes and board actions through January 2023.

During the time period between the valuation date and the publication of this report, inflation has been significantly higher than the expected inflation of 2.3% per annum. Since inflation influences cost-of-living increases for retirees and beneficiaries and active member pay increases, higher inflation is likely to put at least some upward pressure on contribution requirements and downward pressure on the funded status in the June 30, 2023 valuation. The actual impact of higher inflation on future valuation results will depend on, among other factors, how long higher inflation persists. At this time, we continue to believe the long-term inflation assumption of 2.3% is appropriate.

To the best of our knowledge, there have been no other subsequent events that could materially affect current or future certifications rendered in this report.

Assets and Liabilities

- **Breakdown of Entry Age Accrued Liability**
- **Allocation of Plan's Share of Pool's Experience/Assumption Change**
- **Development of Plan's Share of Pool's Market Value of Assets**
- **Schedule of Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**

Breakdown of Entry Age Accrued Liability

Active Members	\$7,426,462
Transferred Members	0
Separated Members	375,067
Members and Beneficiaries Receiving Payments	<u>10,888,370</u>
Total	<u>\$18,689,899</u>

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1. Plan's Accrued Liability	\$18,689,899
2. Projected UAL Balance at 6/30/2022	(1,765,924)
3. Other UAL Adjustments (Golden Handshake, Prior Service Purchase, etc.)	0
4. Adjusted UAL Balance at 6/30/2022 for Asset Share	(1,765,924)
5. Pool's Accrued Liability ¹	22,021,735,002
6. Sum of Pool's Individual Plan UAL Balances at 6/30/2022 ¹	2,453,954,297
7. Pool's 2021-22 Investment (Gain)/Loss ¹	2,614,071,182
8. Pool's 2021-22 Non-Investment (Gain)/Loss ¹	309,490,972
9. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (4)] \div [(5) - (6)] \times (7)$	2,732,705
10. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (5) \times (8)$	262,666
11. Plan's New (Gain)/Loss as of 6/30/2022: $(9) + (10)$	2,995,371
12. Increase in Pool's Accrued Liability due to Change in Assumptions ¹	0
13. Plan's Share of Pool's Change in Assumptions: $(1) \div (5) \times (12)$	0
14. Increase in Pool's Accrued Liability due to Funding Risk Mitigation ¹	0
15. Plan's Share of Pool's Change due to Funding Risk Mitigation: $(1) \div (5) \times (14)$	0
16. Offset due to Funding Risk Mitigation	0
17. Plan's Investment (Gain)/Loss: $(9) - (16)$	2,732,705
18. Partial Fresh Start Base: $(2) + (17)$	966,781

¹ Does not include plans that transferred to Pool on the valuation date.

Development of the Plan's Share of Pool's Market Value of Assets

19. Plan's UAL: $(2) + (3) + (11) + (13) + (15)$	\$1,229,447
20. Plan's Share of Pool's MVA: $(1) - (19)$	\$17,460,452

Schedule of Amortization Bases

Below is the schedule of the plan's amortization bases. Note that there is a two-year lag between the valuation date and the start of the contribution year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2022.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2024-25.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

Reason for Base	Date Est.	Ramp Level 2024-25	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Expected Payment 2023-24	Balance 6/30/24	Minimum Required Payment 2024-25
Non-Investment (Gain)/Loss	6/30/22	No Ramp		0.00%	20	262,666	0	280,527	0	299,603	26,941
Partial Fresh Start	6/30/22	20%	Up Only	0.00%	20	966,781	(4,886)	1,037,572	0	1,108,127	23,819
Total						1,229,447	(4,886)	1,318,099	0	1,407,730	50,760

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in "Allocation of Plan's Share of Pool's Experience/Assumption Change" earlier in this section. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

The partial fresh start base established June 30, 2022 is the sum of the UAL balance from the June 30, 2021 valuation (projected to June 30, 2022) and the June 30, 2022 investment loss, as shown on the previous page.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Many agencies have expressed a desire for a more stable pattern of payments or have indicated interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a fresh start, please contact the plan actuary.

The Current Amortization Schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives (continued)

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	20 Year Amortization		15 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2024	1,407,730	50,760	1,407,730	126,588	1,407,730	147,676
6/30/2025	1,450,998	74,579	1,372,634	126,588	1,350,841	147,676
6/30/2026	1,472,593	98,398	1,335,152	126,588	1,290,084	147,676
6/30/2027	1,471,041	122,216	1,295,121	126,588	1,225,195	147,676
6/30/2028	1,444,768	146,035	1,252,368	126,588	1,155,894	147,676
6/30/2029	1,392,094	146,036	1,206,708	126,588	1,081,880	147,676
6/30/2030	1,335,837	146,036	1,157,943	126,588	1,002,833	147,676
6/30/2031	1,275,754	146,035	1,105,862	126,588	918,411	147,676
6/30/2032	1,211,586	146,035	1,050,239	126,588	828,249	147,676
6/30/2033	1,143,055	146,035	990,834	126,588	731,956	147,676
6/30/2034	1,069,864	146,036	927,390	126,588	629,115	147,676
6/30/2035	991,696	146,036	859,631	126,588	519,280	147,676
6/30/2036	908,212	146,036	787,265	126,588	401,977	147,676
6/30/2037	819,051	146,036	709,978	126,588	276,697	147,676
6/30/2038	723,827	146,036	627,435	126,588	142,898	147,677
6/30/2039	622,127	146,035	539,279	126,588		
6/30/2040	513,513	146,036	445,129	126,589		
6/30/2041	397,512	146,035	344,576	126,589		
6/30/2042	273,624	146,036	237,185	126,588		
6/30/2043	141,311	146,037	122,492	126,588		
6/30/2044						
6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
Total		2,682,524		2,531,762		2,215,141
Interest Paid		1,274,794		1,124,032		807,411
Estimated Savings				150,762		467,383

Employer Contribution History

The table below provides a recent history of the required and discretionary employer contributions for the plan. The required amounts are based on the actuarial valuation from two years prior without subsequent adjustments, if any. Additional discretionary payments before July 1, 2019 or after April 28, 2023 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)	Additional Discretionary Payments
2016 - 17	12.657%	\$73,313	N/A
2017 - 18	12.698%	82,413	N/A
2018 - 19	13.439%	84,662	N/A
2019 - 20	14.398%	0	476,320
2020 - 21	15.445%	9,679	150,921
2021 - 22	15.25%	8,445	0
2022 - 23	15.25%	15,212	0
2023 - 24	17.26%	0	
2024 - 25	17.33%	50,760	

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2013	\$11,942,703	\$9,467,496	\$2,475,207	79.3%	\$1,283,649
06/30/2014	12,874,457	10,618,477	2,255,980	82.5%	1,232,502
06/30/2015	13,627,681	12,410,777	1,216,904	91.1%	1,265,806
06/30/2016	13,783,162	11,604,084	2,179,078	84.2%	1,253,529
06/30/2017	14,403,112	14,302,562	100,550	99.3%	1,295,490
06/30/2018	15,554,722	15,079,381	475,341	96.9%	1,328,106
06/30/2019	16,192,843	15,593,763	599,080	96.3%	1,305,487
06/30/2020	16,954,297	16,366,215	588,082	96.5%	1,272,790
06/30/2021	18,164,306	19,836,711	(1,672,405)	109.2%	1,277,362
06/30/2022	18,689,899	17,460,452	1,229,447	93.4%	1,119,204

Risk Analysis

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Funded Status – Termination Basis**

Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer contributions. The projections below reflect the impact of the CalPERS Funding Risk Mitigation policy. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The first table shows projected contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2042.

Assumed Annual Return FY 2022-23 through 2041-42	Projected Employer Contributions				
	2025-26	2026-27	2027-28	2028-29	2029-30
3.0% (5th percentile)					
Normal Cost Rate	17.3%	17.3%	17.3%	17.3%	17.3%
UAL Contribution	\$91,000	\$147,000	\$221,000	\$312,000	\$397,000
10.8% (95th percentile)					
Normal Cost Rate	17.7%	18.0%	18.3%	18.7%	19.0%
UAL Contribution	\$61,000	\$57,000	\$0	\$0	\$0

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of a one or two standard deviation investment loss in FY 2022-23 on the FY 2025-26 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2025-26.

Assumed Annual Return for Fiscal Year 2022-23	Required Employer Contributions	Projected Employer Contributions
	2024-25	2025-26
(17.2)% (2 standard deviation loss)		
Normal Cost Rate	17.33%	17.3%
UAL Contribution	\$50,760	\$177,000
(5.2)% (1 standard deviation loss)		
Normal Cost Rate	17.33%	17.3%
UAL Contribution	\$50,760	\$126,000

- Without investment gains (returns higher than 6.8%) in FY 2023-24 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2022-23.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2025-26 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2022 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Real Rate of Return Assumption

As of June 30, 2022	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	2.3%	2.3%	2.3%
Real Rate of Return	3.5%	4.5%	5.5%
a) Total Normal Cost	31.76%	25.14%	20.11%
b) Accrued Liability	\$20,950,707	\$18,689,899	\$16,790,318
c) Market Value of Assets	\$17,460,452	\$17,460,452	\$17,460,452
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$3,490,255	\$1,229,447	(\$670,134)
e) Funded Ratio	83.3%	93.4%	104.0%

Sensitivity to the Price Inflation Assumption

As of June 30, 2022	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	1.3%	2.3%	3.3%
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	26.40%	25.14%	22.93%
b) Accrued Liability	\$19,283,996	\$18,689,899	\$17,291,960
c) Market Value of Assets	\$17,460,452	\$17,460,452	\$17,460,452
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$1,823,544	\$1,229,447	(\$168,492)
e) Funded Ratio	90.5%	93.4%	101.0%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2022 plan costs and funded status under two different longevity scenarios, namely assuming post-retirement rates of mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of a change in the mortality assumption.

As of June 30, 2022	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	25.55%	25.14%	24.76%
b) Accrued Liability	\$19,136,098	\$18,689,899	\$18,281,336
c) Market Value of Assets	\$17,460,452	\$17,460,452	\$17,460,452
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$1,675,646	\$1,229,447	\$820,884
e) Funded Ratio	91.2%	93.4%	95.5%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables, and changes in longevity or other demographic assumptions.

Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures are for one rate plan only. One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio starts increasing. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	June 30, 2021	June 30, 2022
1. Retired Accrued Liability	\$10,441,642	\$10,888,370
2. Total Accrued Liability	18,164,306	18,689,899
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.57	0.58

Another measure of maturity level of CalPERS and its plans is to look at the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, maybe less informative than the ratio of retiree liability to total accrued liability above.

For comparison, the support ratio for all CalPERS public agency plans as of June 30, 2021, was 0.78 and was calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	June 30, 2021	June 30, 2022
1. Number of Actives	15	12
2. Number of Retirees	42	43
3. Support Ratio [(1) / (2)]	0.36	0.28

Maturity Measures (continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary growth, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with AVR of 8 may experience twice the contribution volatility due to investment return volatility than a plan with AVR of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as a plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with LVR of 8 is expected to have twice the contribution volatility of a plan with LVR of 4. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2021	June 30, 2022
1. Market Value of Assets	\$19,836,711	\$17,460,452
2. Payroll	1,277,362	1,119,204
3. Asset Volatility Ratio (AVR) [(1) / (2)]	15.5	15.6
4. Accrued Liability	\$18,164,306	\$18,689,899
5. Liability Volatility Ratio (LVR) [(4) / (2)]	14.2	16.7

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	0.55	0.49	11.0	11.1
06/30/2018	0.52	0.47	11.4	11.7
06/30/2019	0.57	0.43	11.9	12.4
06/30/2020	0.60	0.39	12.9	13.3
06/30/2021	0.57	0.36	15.5	14.2
06/30/2022	0.58	0.28	15.6	16.7

Funded Status – Termination Basis

The funded status measured on a termination basis is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2022. The accrued liability on a termination basis (termination liability) is calculated differently compared to the plan’s ongoing funding liability. For the termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees. Unlike the actuarial cost method used for ongoing plans, the termination liability is the present value of the benefits earned through the valuation date.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 19-month period from 12 months before the valuation date to seven months after.

Market Value of Assets (MVA)	Discount Rate: 1.75% Price Inflation: 2.50%		Discount Rate: 4.50% Price Inflation: 2.75%		Unfunded Termination Liability	
	Termination Liability ^{1,2}	Funded Ratio	Termination Liability ^{1,2}	Funded Ratio		
\$17,460,452	\$35,942,044	48.6%	\$18,481,592	\$23,892,971	73.1%	\$6,432,519

¹ The termination liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A of the Section 2 report.

² The discount rate used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 3.38% on June 30, 2022, the valuation date.

In order to terminate the plan, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. Before beginning this process, please consult with the plan actuary.

Participant Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2021	June 30, 2022
Active Members		
Counts	15	12
Average Attained Age	52.5	53.4
Average Entry Age to Rate Plan	35.0	33.0
Average Years of Credited Service	17.3	19.1
Average Annual Covered Pay	\$85,157	\$93,267
Annual Covered Payroll	\$1,277,362	\$1,119,204
Present Value of Future Payroll	\$8,614,318	\$6,694,654
Transferred Members	0	0
Separated Members	9	9
Retired Members and Beneficiaries*		
Counts	42	43
Average Annual Benefits	\$21,810	\$22,683
Total Annual Benefits	\$916,004	\$975,357

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

* Values include community property settlements.

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- One Year Final Compensation (FAC 1)

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Member Category	Benefit Group		
	Misc	Misc	Misc
Demographics			
Actives	No	Yes	No
Transfers/Separated	Yes	Yes	No
Receiving	Yes	Yes	Yes
Benefit Provision			
Benefit Formula	2% @ 55	3% @ 60	
Social Security Coverage	No	No	
Full/Modified	Full	Full	
Employee Contribution Rate		8.00%	
Final Average Compensation Period	One Year	One Year	
Sick Leave Credit	Yes	Yes	
Non-Industrial Disability	Standard	Standard	
Industrial Disability	No	No	
Pre-Retirement Death Benefits			
Optional Settlement 2	Yes	Yes	
1959 Survivor Benefit Level	No	No	
Special	No	No	
Alternate (firefighters)	No	No	
Post-Retirement Death Benefits			
Lump Sum	\$2000	\$2000	\$2000
Survivor Allowance (PRSA)	No	No	No
COLA	2%	2%	2%

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Risk Pool Actuarial Valuation Information

**Section 2 may be found on the
CalPERS website (www.calpers.ca.gov)
in the Forms and Publications section**



**California Public Employees' Retirement System
Actuarial Office**

400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744
888 CalPERS (or 888-225-7377) | TTY: (877) 249-7442 | www.calpers.ca.gov

July 2023

**Miscellaneous Second Tier Plan of the Midway City Sanitary District (CalPERS ID: 6882866561)
Annual Valuation Report as of June 30, 2022**

Dear Employer,

Attached to this letter is the June 30, 2022 actuarial valuation report for the rate plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2024-25.** In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2022.

Section 2 can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to "Forms & Publications" and select "View All". In the search box, enter "Risk Pool" and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2022.

Actuarial valuations are based on assumptions regarding future plan experience including investment return and payroll growth, eligibility for the types of benefits provided, and longevity among retirees. The CalPERS Board of Administration (board) adopts these assumptions after considering the advice of CalPERS actuarial and investment teams and other professionals. Each actuarial valuation reflects all prior differences between actual and assumed experience and adjusts the contribution requirements as needed. This valuation is based on an investment return assumption of 6.8%, which was adopted by the board in November 2021. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from November 2021.

Required Contributions

The table below shows the minimum required employer contributions for FY 2024-25 along with estimates of the required contributions for FY 2025-26. Employee contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability
2024-25	12.52%	\$1,170
<i>Projected Results</i>		
2025-26	12.5%	\$1,700

The actual investment return for FY 2022-23 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 6.8%. **To the extent the actual investment return for FY 2022-23 differs from 6.8%, the actual contribution requirements for FY 2025-26 will differ from those shown above.** For additional details regarding the assumptions and methods used for these projections, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This section also contains projected required contributions through FY 2029-30.

Changes from Previous Year's Valuations

There are no significant changes in actuarial assumptions or policies in the 2022 actuarial valuation. There may be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in "Highlights and Executive Summary" and in Appendix A of the Section 2 report in "Actuarial Methods and Assumptions." The effects of any changes on the required contributions are included in "Reconciliation of Required Employer Contributions," also in the Section 2 report.

Questions

A CalPERS actuary is available to answer questions about this report. Other questions may be directed to the Customer Contact Center at (888)-CalPERS or (888-225-7377).

Sincerely,



SCOTT TERANDO, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS



RANDALL DZIUBEK, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



**Actuarial Valuation
as of June 30, 2022**

**for the
Miscellaneous Second Tier Plan
of the
Midway City Sanitary District
(CalPERS ID: 6882866561)**

**Required Contributions
for Fiscal Year
July 1, 2024 - June 30, 2025**

Table of Contents

Section 1 – Plan Specific Information

Section 2 – Risk Pool Actuarial Valuation Information

Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**Plan Specific Information
for the
Miscellaneous Second Tier Plan
of the
Midway City Sanitary District**

**(CalPERS ID: 6882866561)
(Rate Plan ID: 8584)**

Table of Contents

Actuarial Certification	1
Highlights and Executive Summary	
Introduction	3
Purpose of Section 1	3
Required Contributions	4
Additional Discretionary Employer Contributions	5
Funded Status – Funding Policy Basis	6
Projected Employer Contributions	7
Other Pooled Miscellaneous Risk Pool Rate Plans	8
Cost	9
Changes Since the Prior Year's Valuation	10
Subsequent Events	10
Assets and Liabilities	
Breakdown of Entry Age Accrued Liability	12
Allocation of Plan's Share of Pool's Experience/Assumption Change	12
Development of Plan's Share of Pool's Market Value of Assets	12
Schedule of Amortization Bases	13
Amortization Schedule and Alternatives	14
Employer Contribution History	16
Funding History	16
Risk Analysis	
Future Investment Return Scenarios	18
Discount Rate Sensitivity	19
Mortality Rate Sensitivity	19
Maturity Measures	20
Maturity Measures History	21
Funded Status – Termination Basis	22
Participant Data	23
List of Class 1 Benefit Provisions	23
Plan's Major Benefit Options	24

Actuarial Certification

To the best of our knowledge, this report, comprised of Sections 1 and 2, is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the Miscellaneous Second Tier Plan of the Midway City Sanitary District and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation is based on the member and financial data as of June 30, 2022 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Midway City Sanitary District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the Miscellaneous Risk Pool has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the rate plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2022 and employer contribution as of July 1, 2024 have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary who satisfies the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* with regard to pensions.



KERRY J. WORGAN, MAAA, FSA, FCIA
Supervising Actuary, CalPERS

Highlights and Executive Summary

- **Introduction**
- **Purpose of Section 1**
- **Required Contributions**
- **Additional Discretionary Employer Contributions**
- **Funded Status – Funding Policy Basis**
- **Projected Employer Contributions**
- **Other Pooled Miscellaneous Risk Pool Rate Plans**
- **Cost**
- **Changes Since the Prior Year’s Valuation**
- **Subsequent Events**

Introduction

This report presents the results of the June 30, 2022 actuarial valuation of the Miscellaneous Second Tier Plan of the Midway City Sanitary District of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the minimum required contributions for fiscal year (FY) 2024-25.

Purpose of Section 1

This Section 1 report for the Miscellaneous Second Tier Plan of the Midway City Sanitary District of CalPERS was prepared by the Actuarial Office using data as of June 30, 2022. The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of this rate plan as of June 30, 2022;
- Determine the minimum required employer contributions for this rate plan for FY July 1, 2024 through June 30, 2025;
- Determine the required member contribution rate for FY July 1, 2024 through June 30, 2025 for employees subject to the California Public Employees' Pension Reform Act of 2013 (PEPRA); and
- Provide actuarial information as of June 30, 2022 to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact the plan actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the guidance of Actuarial Standard of Practice No. 51 and recommended by the California Actuarial Advisory Panel (CAAP) in the Model Disclosure Elements document:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.

Required Contributions

Required Employer Contributions	Fiscal Year 2024-25
Employer Normal Cost Rate	12.52%
<i>Plus</i>	
Required Payment on Amortization Bases ¹	\$1,170
<i>Paid either as</i>	
1) Monthly Payment	\$97.50
<i>Or</i>	
2) Annual Prepayment Option*	\$1,132
<p><i>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).</i></p> <p><i>* Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31).</i></p>	

	Fiscal Year 2023-24	Fiscal Year 2024-25
Development of Normal Cost as a Percentage of Payroll		
Base Total Normal Cost for Formula	18.76%	18.81%
Surcharge for Class 1 Benefits ²		
a) FAC 1	0.63%	0.64%
Phase out of Normal Cost Difference ³	0.00%	0.00%
Plan's Total Normal Cost	19.39%	19.45%
Offset Due to Employee Contributions	6.92%	6.93%
Employer Normal Cost Rate	12.47%	12.52%

¹ The required payment on amortization bases does not take into account any additional discretionary payment made after April 28, 2023.

² Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges.

³ When a rate plan joins the pool, the difference in normal cost between the pool and the rate plan is phased out over a five-year period in accordance with the CalPERS contribution allocation policy.

Additional Discretionary Employer Contributions

The minimum required employer contribution towards the Unfunded Accrued Liability (UAL) for this rate plan for FY 2024-25 is \$1,170. CalPERS allows agencies to make additional discretionary payments (ADPs) at any time and in any amount. These optional payments serve to reduce the UAL and future required contributions and can result in significant long-term savings. Agencies can also use ADPs to stabilize annual contributions as a fixed dollar amount, percent of payroll or percent of revenue.

Provided below are select ADP options for consideration. Making such an ADP during FY 2024-25 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see the "Amortization Schedule and Alternatives" section of the report.

Agencies considering making an ADP should contact CalPERS for additional information.

Minimum Required Employer Contribution for Fiscal Year 2024-25

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
\$12,066	\$1,170	\$0	\$1,170	\$13,236

The minimum required contribution above is less than interest on the UAL. With no ADP the UAL is projected to increase over the following year. If the minimum UAL payment were split between interest and principal, the principal portion would be negative. This situation is referred to as **negative amortization**. If only the minimum required contribution is made, contributions are not expected to exceed interest on the UAL until FY **2026-27**, as shown in the "Amortization Schedule and Alternatives" section of the report (see columns labeled "Current Amortization Schedule").

Fiscal Year 2024-25 Employer Contribution Necessary to Avoid Negative Amortization

Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
\$12,066	\$1,170	\$988	\$2,158	\$14,224

Alternative Fiscal Year 2024-25 Employer Contributions for Greater UAL Reduction

Funding Horizon	Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
20 years	\$12,066	\$1,170	\$1,779	\$2,949	\$15,015
15 years	\$12,066	\$1,170	\$2,271	\$3,441	\$15,507
10 years	\$12,066	\$1,170	\$3,307	\$4,477	\$16,543
5 years	\$12,066	\$1,170	\$6,529	\$7,699	\$19,765

¹ The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

Note that the calculations above are based on the projected UAL as of June 30, 2024 as determined in the June 30, 2022 actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Funded Status – Funding Policy Basis

The table below provides information on the current funded status of the plan under the funding policy. The funded status for this purpose is based on the market value of assets relative to the funding target produced by the entry age actuarial cost method and actuarial assumptions adopted by the board. The actuarial cost method allocates the total expected cost of a member's projected benefit (**Present Value of Benefits**) to individual years of service (the **Normal Cost**). The value of the projected benefit that is not allocated to future service is referred to as the **Accrued Liability** and is the plan's funding target on the valuation date. The **Unfunded Accrued Liability (UAL)** equals the funding target minus the assets. The UAL is an absolute measure of funded status and can be viewed as employer debt. The **funded ratio** equals the assets divided by the funding target. The funded ratio is a relative measure of the funded status and allows for comparisons between plans of different sizes.

	June 30, 2021	June 30, 2022
1. Present Value of Benefits	\$587,613	\$595,383
2. Entry Age Accrued Liability	413,940	423,909
3. Market Value of Assets (MVA)	453,486	396,465
4. Unfunded Accrued Liability (UAL) [(2) – (3)]	(\$39,546)	\$27,444
5. Funded Ratio [(3) / (2)]	109.6%	93.5%

A funded ratio of 100% (UAL of \$0) implies that the funding of the plan is on target and that future contributions equal to the normal cost of the active plan members will be sufficient to fully fund all retirement benefits if future experience matches the actuarial assumptions. A funded ratio of less than 100% (positive UAL) implies that in addition to normal costs, payments toward the UAL will be required. Plans with a funded ratio greater than 100% have a negative UAL (or surplus) but are required under current law to continue contributing the normal cost in most cases, preserving the surplus for future contingencies.

Calculations for the funding target reflect the expected long-term investment return of 6.8%. If it were known on the valuation date that future investment returns will average something greater/less than the expected return, calculated normal costs and accrued liabilities provided in this report would be less/greater than the results shown. Therefore, for example, if actual average future returns are less than the expected return, calculated normal costs and UAL contributions will not be sufficient to fully fund all retirement benefits. Under this scenario, required future normal cost contributions will need to increase from those provided in this report, and the plan will develop unfunded liabilities that will also add to required future contributions. For illustrative purposes, funded statuses based on a 1% lower and higher average future investment return (discount rate) are as follows:

	1% Lower Average Return	Current Assumption	1% Higher Average Return
Discount Rate	5.8%	6.8%	7.8%
1. Entry Age Accrued Liability	\$491,085	\$423,909	\$368,301
2. Market Value of Assets (MVA)	396,465	396,465	396,465
3. Unfunded Accrued Liability (UAL) [(1) – (2)]	\$94,620	\$27,444	(\$28,164)
4. Funded Ratio [(2) / (1)]	80.7%	93.5%	107.6%

The "Risk Analysis" section of the report provides additional information regarding the sensitivity of valuation results to the expected investment return and other factors. Also provided in that section are measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities.

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2022-23 is assumed to be 6.80% per year, net of investment and administrative expenses. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2022-23 and Beyond)				
Fiscal Year	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Rate Plan 8584 Results					
Normal Cost %	12.52%	12.5%	12.5%	12.5%	12.5%	12.5%
UAL Payment	\$1,170	\$1,700	\$2,300	\$2,800	\$3,400	\$3,400

For ongoing plans, investment gains and losses are amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large investment loss, the relatively small amortization payments during the ramp up period could result in contributions that are less than interest on the UAL (i.e. negative amortization) while the contribution impact of the increase in the UAL is phased in.

The required contribution for FY 2024-25 is less than interest on the UAL, a situation referred to as **negative amortization**, as explained in the "Additional Discretionary Employer Contributions" section earlier in this report. If only the minimum required contribution is made, contributions are not expected to exceed interest on the UAL until FY 2026-27, as shown in the "Amortization Schedule and Alternatives" section of the report (see columns labelled "Current Amortization Schedule").

For projected contributions under alternate investment return scenarios, please see the "Future Investment Return Scenarios" in the "Risk Analysis" section. Our online pension plan projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

Other Pooled Miscellaneous Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown on this page, correspond to rate plan 8584. In many cases, employers have additional rate plans within the same risk pool. For cost analysis and budgeting it is useful to consider contributions for these rate plans as a whole rather than individually. The estimated contribution amounts and rates for all of the employer's rate plans in the Miscellaneous Risk Pool are shown below and assume that the total employer payroll within the Miscellaneous Risk Pool will grow according to the overall payroll growth assumption of 2.80% per year for three years. In a refinement since the prior year's report, Classic members who are projected to terminate employment are assumed to be replaced by PEPRAs members.

	Fiscal Year	Fiscal Year
	2023-24	2024-25
Estimated Combined Employer Contributions for all Pooled Miscellaneous Rate Plans		
Projected Payroll for the Contribution Year	\$2,078,616	\$2,280,727
Estimated Employer Normal Cost	\$298,080	\$277,246
Required Payment on Amortization Bases	\$0	\$53,981
Estimated Total Employer Contributions	\$298,080	\$331,227
Estimated Total Employer Contribution Rate (illustrative only)	14.34%	14.52%

Cost

Actuarial Determination of Plan Cost

Contributions to fund the plan are comprised of two components:

- Normal Cost, expressed as a percentage of total active payroll
- Amortization of the Unfunded Accrued Liability (UAL), expressed as a dollar amount

For fiscal years prior to 2015-16, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with FY 2015-16, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There is an option to prepay this amount during July of each fiscal year.

The Normal Cost component is expressed as a percentage of active payroll with employer and employee contributions payable as part of the regular payroll reporting process.

The determination of both components requires complex actuarial calculations. The calculations are based on a set of actuarial assumptions which can be divided into two categories:

- Demographic assumptions (e.g., mortality rates, retirement rates, employment termination rates, disability rates)
- Economic assumptions (e.g., future investment earnings, inflation, salary growth rates)

These assumptions reflect CalPERS' best estimate of future experience of the plan and are long term in nature. We recognize that all assumptions will not be realized in any given year. For example, the investment earnings at CalPERS have averaged 6.9% over the 20 years ending June 30, 2022, yet individual fiscal year returns have ranged from -23.6% to +21.3%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2021.

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" in this report and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

In 2022, SB 1168 increased the standard retiree lump sum death benefit from \$500 to \$2,000 for any death occurring on or after July 1, 2023. For pooled plans this is a Class 3 benefit and there is no normal cost surcharge. The impact on the unfunded liability is included in the pool's (gain)/loss.

Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods or assumptions for the June 30, 2022 actuarial valuation.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2022 and statutory/regulatory changes and board actions through January 2023.

During the time period between the valuation date and the publication of this report, inflation has been significantly higher than the expected inflation of 2.3% per annum. Since inflation influences cost-of-living increases for retirees and beneficiaries and active member pay increases, higher inflation is likely to put at least some upward pressure on contribution requirements and downward pressure on the funded status in the June 30, 2023 valuation. The actual impact of higher inflation on future valuation results will depend on, among other factors, how long higher inflation persists. At this time, we continue to believe the long-term inflation assumption of 2.3% is appropriate.

To the best of our knowledge, there have been no other subsequent events that could materially affect current or future certifications rendered in this report.

Assets and Liabilities

- **Breakdown of Entry Age Accrued Liability**
- **Allocation of Plan's Share of Pool's Experience/Assumption Change**
- **Development of Plan's Share of Pool's Market Value of Assets**
- **Schedule of Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**

Breakdown of Entry Age Accrued Liability

Active Members	\$423,909
Transferred Members	0
Separated Members	0
Members and Beneficiaries Receiving Payments	0
Total	\$423,909

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1. Plan's Accrued Liability	\$423,909
2. Projected UAL Balance at 6/30/2022	(40,563)
3. Other UAL Adjustments (Golden Handshake, Prior Service Purchase, etc.)	0
4. Adjusted UAL Balance at 6/30/2022 for Asset Share	(40,563)
5. Pool's Accrued Liability ¹	22,021,735,002
6. Sum of Pool's Individual Plan UAL Balances at 6/30/2022 ¹	2,453,954,297
7. Pool's 2021-22 Investment (Gain)/Loss ¹	2,614,071,182
8. Pool's 2021-22 Non-Investment (Gain)/Loss ¹	309,490,972
9. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (4)] \div [(5) - (6)] \times (7)$	62,049
10. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (5) \times (8)$	5,958
11. Plan's New (Gain)/Loss as of 6/30/2022: $(9) + (10)$	68,007
12. Increase in Pool's Accrued Liability due to Change in Assumptions ¹	0
13. Plan's Share of Pool's Change in Assumptions: $(1) \div (5) \times (12)$	0
14. Increase in Pool's Accrued Liability due to Funding Risk Mitigation ¹	0
15. Plan's Share of Pool's Change due to Funding Risk Mitigation: $(1) \div (5) \times (14)$	0
16. Offset due to Funding Risk Mitigation	0
17. Plan's Investment (Gain)/Loss: $(9) - (16)$	62,049
18. Partial Fresh Start Base: $(2) + (17)$	21,486

¹ Does not include plans that transferred to Pool on the valuation date.

Development of the Plan's Share of Pool's Market Value of Assets

19. Plan's UAL: $(2) + (3) + (11) + (13) + (15)$	\$27,444
20. Plan's Share of Pool's MVA: $(1) - (19)$	\$396,465

Schedule of Amortization Bases

Below is the schedule of the plan's amortization bases. Note that there is a two-year lag between the valuation date and the start of the contribution year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2022.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2024-25.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

Reason for Base	Date Est.	Ramp Level 2024-25	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Expected Payment 2023-24	Balance 6/30/24	Minimum Required Payment 2024-25
Non-Investment (Gain)/Loss	6/30/22	No Ramp		0.00%	20	5,958	0	6,363	0	6,796	611
Partial Fresh Start	6/30/22	20%	Up Only	0.00%	20	21,486	(1,356)	24,348	0	26,004	559
Total						27,444	(1,356)	30,711	0	32,800	1,170

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in "Allocation of Plan's Share of Pool's Experience/Assumption Change" earlier in this section. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

The partial fresh start base established June 30, 2022 is the sum of the UAL balance from the June 30, 2021 valuation (projected to June 30, 2022) and the June 30, 2022 investment loss, as shown on the previous page.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Many agencies have expressed a desire for a more stable pattern of payments or have indicated interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a fresh start, please contact the plan actuary.

The Current Amortization Schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives (continued)

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	20 Year Amortization		15 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2024	32,800	1,170	32,800	2,949	32,800	3,441
6/30/2025	33,822	1,729	31,983	2,950	31,474	3,441
6/30/2026	34,335	2,288	31,109	2,949	30,058	3,441
6/30/2027	34,305	2,847	30,177	2,950	28,546	3,441
6/30/2028	33,696	3,406	29,180	2,949	26,931	3,441
6/30/2029	32,468	3,406	28,117	2,950	25,206	3,441
6/30/2030	31,156	3,406	26,980	2,949	23,364	3,441
6/30/2031	29,755	3,406	25,767	2,950	21,397	3,441
6/30/2032	28,259	3,406	24,471	2,950	19,296	3,440
6/30/2033	26,661	3,407	23,086	2,949	17,053	3,441
6/30/2034	24,953	3,407	21,608	2,949	14,657	3,441
6/30/2035	23,129	3,406	20,030	2,950	12,098	3,441
6/30/2036	21,182	3,406	18,343	2,949	9,365	3,440
6/30/2037	19,102	3,405	16,543	2,950	6,447	3,441
6/30/2038	16,882	3,407	14,619	2,949	3,329	3,440
6/30/2039	14,509	3,405	12,565	2,949		
6/30/2040	11,977	3,406	10,372	2,950		
6/30/2041	9,272	3,407	8,029	2,950		
6/30/2042	6,382	3,407	5,526	2,949		
6/30/2043	3,295	3,405	2,854	2,949		
6/30/2044						
6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
Total		62,532		58,989		51,612
Interest Paid		29,732		26,189		18,812
Estimated Savings				3,543		10,920

Employer Contribution History

The table below provides a recent history of the required and discretionary employer contributions for the plan. The required amounts are based on the actuarial valuation from two years prior without subsequent adjustments, if any. Additional discretionary payments before July 1, 2019 or after April 28, 2023 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)	Additional Discretionary Payments
2016 - 17	8.880%	\$194	N/A
2017 - 18	8.921%	298	N/A
2018 - 19	9.409%	1,709	N/A
2019 - 20	10.221%	1,771	11,584
2020 - 21	11.031%	2,739	3,307
2021 - 22	10.88%	822	0
2022 - 23	10.87%	307	0
2023 - 24	12.47%	0	
2024 - 25	12.52%	1,170	

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2013	\$51,274	\$41,669	\$9,605	81.3%	\$137,093
06/30/2014	84,154	80,250	3,904	95.4%	144,962
06/30/2015	124,708	118,784	5,924	95.2%	157,933
06/30/2016	167,169	148,285	18,884	88.7%	165,629
06/30/2017	223,385	206,236	17,149	92.3%	174,615
06/30/2018	288,653	260,347	28,306	90.2%	182,040
06/30/2019	354,745	341,630	13,115	96.3%	193,480
06/30/2020	341,405	329,304	12,101	96.5%	106,784
06/30/2021	413,940	453,486	(39,546)	109.6%	105,721
06/30/2022	423,909	396,465	27,444	93.5%	109,190

Risk Analysis

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Funded Status – Termination Basis**

Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer contributions. The projections below reflect the impact of the CalPERS Funding Risk Mitigation policy. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The first table shows projected contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2042.

Assumed Annual Return FY 2022-23 through 2041-42	Projected Employer Contributions				
	2025-26	2026-27	2027-28	2028-29	2029-30
3.0% (5th percentile)					
Normal Cost Rate	12.5%	12.5%	12.5%	12.5%	12.5%
UAL Contribution	\$2,100	\$3,400	\$5,100	\$7,200	\$9,100
10.8% (95th percentile)					
Normal Cost Rate	12.8%	13.0%	13.3%	13.5%	13.8%
UAL Contribution	\$1,400	\$1,300	\$0	\$0	\$0

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of a one or two standard deviation investment loss in FY 2022-23 on the FY 2025-26 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2025-26.

Assumed Annual Return for Fiscal Year 2022-23	Required Employer Contributions	Projected Employer Contributions
	2024-25	2025-26
(17.2)% (2 standard deviation loss)		
Normal Cost Rate	12.52%	12.5%
UAL Contribution	\$1,170	\$4,100
(5.2)% (1 standard deviation loss)		
Normal Cost Rate	12.52%	12.5%
UAL Contribution	\$1,170	\$2,900

- Without investment gains (returns higher than 6.8%) in FY 2023-24 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2022-23.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2025-26 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2022 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Real Rate of Return Assumption

As of June 30, 2022	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	2.3%	2.3%	2.3%
Real Rate of Return	3.5%	4.5%	5.5%
a) Total Normal Cost	24.48%	19.45%	15.62%
b) Accrued Liability	\$491,085	\$423,909	\$368,301
c) Market Value of Assets	\$396,465	\$396,465	\$396,465
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$94,620	\$27,444	(\$28,164)
e) Funded Ratio	80.7%	93.5%	107.6%

Sensitivity to the Price Inflation Assumption

As of June 30, 2022	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	1.3%	2.3%	3.3%
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	20.42%	19.45%	17.74%
b) Accrued Liability	\$438,302	\$423,909	\$390,766
c) Market Value of Assets	\$396,465	\$396,465	\$396,465
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$41,837	\$27,444	(\$5,699)
e) Funded Ratio	90.5%	93.5%	101.5%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2022 plan costs and funded status under two different longevity scenarios, namely assuming post-retirement rates of mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of a change in the mortality assumption.

As of June 30, 2022	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	19.78%	19.45%	19.14%
b) Accrued Liability	\$433,082	\$423,909	\$415,462
c) Market Value of Assets	\$396,465	\$396,465	\$396,465
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$36,617	\$27,444	\$18,997
e) Funded Ratio	91.5%	93.5%	95.4%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables, and changes in longevity or other demographic assumptions.

Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures are for one rate plan only. One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio starts increasing. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	June 30, 2021	June 30, 2022
1. Retired Accrued Liability	\$0	\$0
2. Total Accrued Liability	413,940	423,909
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.00	0.00

Another measure of maturity level of CalPERS and its plans is to look at the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, maybe less informative than the ratio of retiree liability to total accrued liability above.

For comparison, the support ratio for all CalPERS public agency plans as of June 30, 2021, was 0.78 and was calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	June 30, 2021	June 30, 2022
1. Number of Actives	2	2
2. Number of Retirees	0	0
3. Support Ratio [(1) / (2)]	N/A	N/A

Maturity Measures (continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary growth, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with AVR of 8 may experience twice the contribution volatility due to investment return volatility than a plan with AVR of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as a plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with LVR of 8 is expected to have twice the contribution volatility of a plan with LVR of 4. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2021	June 30, 2022
1. Market Value of Assets	\$453,486	\$396,465
2. Payroll	105,721	109,190
3. Asset Volatility Ratio (AVR) [(1) / (2)]	4.3	3.6
4. Accrued Liability	\$413,940	\$423,909
5. Liability Volatility Ratio (LVR) [(4) / (2)]	3.9	3.9

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	0.00	N/A	1.2	1.3
06/30/2018	0.00	N/A	1.4	1.6
06/30/2019	0.00	N/A	1.8	1.8
06/30/2020	0.00	N/A	3.1	3.2
06/30/2021	0.00	N/A	4.3	3.9
06/30/2022	0.00	N/A	3.6	3.9

Funded Status – Termination Basis

The funded status measured on a termination basis is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2022. The accrued liability on a termination basis (termination liability) is calculated differently compared to the plan’s ongoing funding liability. For the termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees. Unlike the actuarial cost method used for ongoing plans, the termination liability is the present value of the benefits earned through the valuation date.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 19-month period from 12 months before the valuation date to seven months after.

Market Value of Assets (MVA)	Discount Rate: 1.75% Price Inflation: 2.50%			Discount Rate: 4.50% Price Inflation: 2.75%		
	Termination Liability ^{1,2}	Funded Ratio	Unfunded Termination Liability	Termination Liability ^{1,2}	Funded Ratio	Unfunded Termination Liability
\$396,465	\$948,125	41.8%	\$551,660	\$596,219	66.5%	\$199,754

¹ The termination liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A of the Section 2 report.

² The discount rate used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 3.38% on June 30, 2022, the valuation date.

In order to terminate the plan, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. Before beginning this process, please consult with the plan actuary.

Participant Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2021	June 30, 2022
Active Members		
Counts	2	2
Average Attained Age	53.1	54.1
Average Entry Age to Rate Plan	43.1	43.1
Average Years of Credited Service	9.7	10.5
Average Annual Covered Pay	\$52,861	\$54,595
Annual Covered Payroll	\$105,721	\$109,190
Present Value of Future Payroll	\$855,888	\$852,391
Transferred Members	0	0
Separated Members	1	0
Retired Members and Beneficiaries*		
Counts	0	0
Average Annual Benefits	\$0	\$0
Total Annual Benefits	\$0	\$0

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

* Values include community property settlements.

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- One Year Final Compensation (FAC 1)

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Member Category	Benefit Group	
	Misc	
Demographics		
Actives	Yes	
Transfers/Separated	No	
Receiving	No	
Benefit Provision		
Benefit Formula	2% @ 55	
Social Security Coverage	No	
Full/Modified	Full	
Employee Contribution Rate	7.00%	
Final Average Compensation Period	One Year	
Sick Leave Credit	Yes	
Non-Industrial Disability	Standard	
Industrial Disability	No	
Pre-Retirement Death Benefits		
Optional Settlement 2	Yes	
1959 Survivor Benefit Level	No	
Special	No	
Alternate (firefighters)	No	
Post-Retirement Death Benefits		
Lump Sum	\$2000	
Survivor Allowance (PRSA)	No	
COLA	2%	

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Risk Pool Actuarial Valuation Information

Section 2 may be found on the
CalPERS website (www.calpers.ca.gov)
in the Forms and Publications section



**California Public Employees' Retirement System
Actuarial Office**

400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744
888 CalPERS (or 888-225-7377) | TTY: (877) 249-7442 | www.calpers.ca.gov

July 2023

**PEPRA Miscellaneous Plan of the Midway City Sanitary District (CalPERS ID: 6882866561)
Annual Valuation Report as of June 30, 2022**

Dear Employer,

Attached to this letter is the June 30, 2022 actuarial valuation report for the rate plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2024-25.** In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2022.

Section 2 can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to "Forms & Publications" and select "View All". In the search box, enter "Risk Pool" and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2022.

Actuarial valuations are based on assumptions regarding future plan experience including investment return and payroll growth, eligibility for the types of benefits provided, and longevity among retirees. The CalPERS Board of Administration (board) adopts these assumptions after considering the advice of CalPERS actuarial and investment teams and other professionals. Each actuarial valuation reflects all prior differences between actual and assumed experience and adjusts the contribution requirements as needed. This valuation is based on an investment return assumption of 6.8%, which was adopted by the board in November 2021. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from November 2021.

Required Contributions

The table below shows the minimum required employer contributions and the PEPRA member contribution rate for FY 2024-25 along with estimates of the required contributions for FY 2025-26. Employee contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability	PEPRA Member Contribution Rate
2024-25	7.87%	\$2,051	7.75%
<i>Projected Results</i>			
2025-26	7.9%	\$3,300	TBD

The actual investment return for FY 2022-23 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 6.8%. **To the extent the actual investment return for FY 2022-23 differs from 6.8%, the actual contribution requirements for FY 2025-26 will differ from those shown above.** For additional details regarding the assumptions and methods used for these projections, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This section also contains projected required contributions through FY 2029-30.

Changes from Previous Year's Valuations

There are no significant changes in actuarial assumptions or policies in the 2022 actuarial valuation. There may be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in "Highlights and Executive Summary" and in Appendix A of the Section 2 report in "Actuarial Methods and Assumptions." The effects of any changes on the required contributions are included in "Reconciliation of Required Employer Contributions," also in the Section 2 report.

Questions

A CalPERS actuary is available to answer questions about this report. Other questions may be directed to the Customer Contact Center at (888)-CalPERS or (888-225-7377).

Sincerely,



SCOTT TERANDO, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS



RANDALL DZIUBEK, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



**Actuarial Valuation
as of June 30, 2022**

**for the
PEPRA Miscellaneous Plan
of the
Midway City Sanitary District
(CalPERS ID: 6882866561)**

**Required Contributions
for Fiscal Year
July 1, 2024 - June 30, 2025**

Table of Contents

Section 1 – Plan Specific Information

Section 2 – Risk Pool Actuarial Valuation Information

Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**Plan Specific Information
for the
PEPRA Miscellaneous Plan
of the
Midway City Sanitary District**

**(CalPERS ID: 6882866561)
(Rate Plan ID: 26759)**

Table of Contents

Actuarial Certification	1
Highlights and Executive Summary	
Introduction	3
Purpose of Section 1	3
Required Contributions	4
Additional Discretionary Employer Contributions	5
Funded Status – Funding Policy Basis	6
Projected Employer Contributions	7
Other Pooled Miscellaneous Risk Pool Rate Plans	8
Cost	9
Changes Since the Prior Year's Valuation	10
Subsequent Events	10
Assets and Liabilities	
Breakdown of Entry Age Accrued Liability	12
Allocation of Plan's Share of Pool's Experience/Assumption Change	12
Development of Plan's Share of Pool's Market Value of Assets	12
Schedule of Amortization Bases	13
Amortization Schedule and Alternatives	14
Employer Contribution History	16
Funding History	16
Risk Analysis	
Future Investment Return Scenarios	18
Discount Rate Sensitivity	19
Mortality Rate Sensitivity	19
Maturity Measures	20
Maturity Measures History	21
Funded Status – Termination Basis	22
Participant Data	23
List of Class 1 Benefit Provisions	23
Plan's Major Benefit Options	24
PEPRA Member Contribution Rates	25

Actuarial Certification

To the best of our knowledge, this report, comprised of Sections 1 and 2, is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the PEPRA Miscellaneous Plan of the Midway City Sanitary District and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation is based on the member and financial data as of June 30, 2022 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Midway City Sanitary District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the Miscellaneous Risk Pool has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the rate plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2022 and employer contribution as of July 1, 2024 have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary who satisfies the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* with regard to pensions.



KERRY J. WORGAN, MAAA, FSA, FCIA
Supervising Actuary, CalPERS

Highlights and Executive Summary

- **Introduction**
- **Purpose of Section 1**
- **Required Contributions**
- **Additional Discretionary Employer Contributions**
- **Funded Status – Funding Policy Basis**
- **Projected Employer Contributions**
- **Other Pooled Miscellaneous Risk Pool Rate Plans**
- **Cost**
- **Changes Since the Prior Year’s Valuation**
- **Subsequent Events**

Introduction

This report presents the results of the June 30, 2022 actuarial valuation of the PEPRA Miscellaneous Plan of the Midway City Sanitary District of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the minimum required contributions for fiscal year (FY) 2024-25.

Purpose of Section 1

This Section 1 report for the PEPRA Miscellaneous Plan of the Midway City Sanitary District of CalPERS was prepared by the Actuarial Office using data as of June 30, 2022. The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of this rate plan as of June 30, 2022;
- Determine the minimum required employer contributions for this rate plan for FY July 1, 2024 through June 30, 2025;
- Determine the required member contribution rate for FY July 1, 2024 through June 30, 2025 for employees subject to the California Public Employees' Pension Reform Act of 2013 (PEPRA); and
- Provide actuarial information as of June 30, 2022 to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact the plan actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the guidance of Actuarial Standard of Practice No. 51 and recommended by the California Actuarial Advisory Panel (CAAP) in the Model Disclosure Elements document:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.

Required Contributions

	Fiscal Year
Required Employer Contributions	2024-25
Employer Normal Cost Rate	7.87%
<i>Plus</i>	
Required Payment on Amortization Bases ¹	\$2,051
<i>Paid either as</i>	
1) Monthly Payment	\$170.92
<i>Or</i>	
2) Annual Prepayment Option*	\$1,985
Required PEPRA Member Contribution Rate	7.75%
<p><i>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).</i></p> <p><i>* Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31).</i></p> <p><i>For additional detail regarding the determination of the required contribution rate for PEPRA members, see "PEPRA Member Contribution Rates" section.</i></p>	

	Fiscal Year	Fiscal Year
	2023-24	2024-25
Development of Normal Cost as a Percentage of Payroll		
Base Total Normal Cost for Formula	15.43%	15.62%
Surcharge for Class 1 Benefits ²		
None	0.00%	0.00%
Phase out of Normal Cost Difference ³	0.00%	0.00%
Plan's Total Normal Cost	15.43%	15.62%
Offset Due to Employee Contributions	7.75%	7.75%
Employer Normal Cost Rate	7.68%	7.87%

¹ The required payment on amortization bases does not take into account any additional discretionary payment made after April 28, 2023.

² Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges.

³ When a rate plan joins the pool, the difference in normal cost between the pool and the rate plan is phased out over a five-year period in accordance with the CalPERS contribution allocation policy.

Additional Discretionary Employer Contributions

The minimum required employer contribution towards the Unfunded Accrued Liability (UAL) for this rate plan for FY 2024-25 is \$2,051. CalPERS allows agencies to make additional discretionary payments (ADPs) at any time and in any amount. These optional payments serve to reduce the UAL and future required contributions and can result in significant long-term savings. Agencies can also use ADPs to stabilize annual contributions as a fixed dollar amount, percent of payroll or percent of revenue.

Provided below are select ADP options for consideration. Making such an ADP during FY 2024-25 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see the "Amortization Schedule and Alternatives" section of the report.

Agencies considering making an ADP should contact CalPERS for additional information.

Minimum Required Employer Contribution for Fiscal Year 2024-25

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
\$94,314	\$2,051	\$0	\$2,051	\$96,365

The minimum required contribution above is less than interest on the UAL. With no ADP the UAL is projected to increase over the following year. If the minimum UAL payment were split between interest and principal, the principal portion would be negative. This situation is referred to as **negative amortization**. If only the minimum required contribution is made, contributions are not expected to exceed interest on the UAL until FY **2027-28**, as shown in the "Amortization Schedule and Alternatives" section of the report (see columns labeled "Current Amortization Schedule").

Fiscal Year 2024-25 Employer Contribution Necessary to Avoid Negative Amortization

Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
\$94,314	\$2,051	\$2,311	\$4,362	\$98,676

Alternative Fiscal Year 2024-25 Employer Contributions for Greater UAL Reduction

Funding Horizon	Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
20 years	\$94,314	\$2,051	\$3,911	\$5,962	\$100,276
15 years	\$94,314	\$2,051	\$4,904	\$6,955	\$101,269
10 years	\$94,314	\$2,051	\$6,998	\$9,049	\$103,363
5 years	\$94,314	\$2,051	\$13,511	\$15,562	\$109,876

¹ The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

Note that the calculations above are based on the projected UAL as of June 30, 2024 as determined in the June 30, 2022 actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Funded Status – Funding Policy Basis

The table below provides information on the current funded status of the plan under the funding policy. The funded status for this purpose is based on the market value of assets relative to the funding target produced by the entry age actuarial cost method and actuarial assumptions adopted by the board. The actuarial cost method allocates the total expected cost of a member's projected benefit (**Present Value of Benefits**) to individual years of service (the **Normal Cost**). The value of the projected benefit that is not allocated to future service is referred to as the **Accrued Liability** and is the plan's funding target on the valuation date. The **Unfunded Accrued Liability (UAL)** equals the funding target minus the assets. The UAL is an absolute measure of funded status and can be viewed as employer debt. The **funded ratio** equals the assets divided by the funding target. The funded ratio is a relative measure of the funded status and allows for comparisons between plans of different sizes.

	June 30, 2021	June 30, 2022
1. Present Value of Benefits	\$1,382,073	\$2,119,333
2. Entry Age Accrued Liability	425,527	571,194
3. Market Value of Assets (MVA)	468,372	519,239
4. Unfunded Accrued Liability (UAL) [(2) – (3)]	(\$42,845)	\$51,955
5. Funded Ratio [(3) / (2)]	110.1%	90.9%

A funded ratio of 100% (UAL of \$0) implies that the funding of the plan is on target and that future contributions equal to the normal cost of the active plan members will be sufficient to fully fund all retirement benefits if future experience matches the actuarial assumptions. A funded ratio of less than 100% (positive UAL) implies that in addition to normal costs, payments toward the UAL will be required. Plans with a funded ratio greater than 100% have a negative UAL (or surplus) but are required under current law to continue contributing the normal cost in most cases, preserving the surplus for future contingencies.

Calculations for the funding target reflect the expected long-term investment return of 6.8%. If it were known on the valuation date that future investment returns will average something greater/less than the expected return, calculated normal costs and accrued liabilities provided in this report would be less/greater than the results shown. Therefore, for example, if actual average future returns are less than the expected return, calculated normal costs and UAL contributions will not be sufficient to fully fund all retirement benefits. Under this scenario, required future normal cost contributions will need to increase from those provided in this report, and the plan will develop unfunded liabilities that will also add to required future contributions. For illustrative purposes, funded statuses based on a 1% lower and higher average future investment return (discount rate) are as follows:

	1% Lower Average Return	Current Assumption	1% Higher Average Return
Discount Rate	5.8%	6.8%	7.8%
1. Entry Age Accrued Liability	\$706,466	\$571,194	\$464,996
2. Market Value of Assets (MVA)	519,239	519,239	519,239
3. Unfunded Accrued Liability (UAL) [(1) – (2)]	\$187,227	\$51,955	(\$54,243)
4. Funded Ratio [(2) / (1)]	73.5%	90.9%	111.7%

The "Risk Analysis" section of the report provides additional information regarding the sensitivity of valuation results to the expected investment return and other factors. Also provided in that section are measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities.

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2022-23 is assumed to be 6.80% per year, net of investment and administrative expenses. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2022-23 and Beyond)				
Fiscal Year	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Rate Plan 26759 Results					
Normal Cost %	7.87%	7.9%	7.9%	7.9%	7.9%	7.9%
UAL Payment	\$2,051	\$3,300	\$4,500	\$5,700	\$7,000	\$7,000

For ongoing plans, investment gains and losses are amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large investment loss, the relatively small amortization payments during the ramp up period could result in contributions that are less than interest on the UAL (i.e. negative amortization) while the contribution impact of the increase in the UAL is phased in.

The required contribution for FY 2024-25 is less than interest on the UAL, a situation referred to as **negative amortization**, as explained in the "Additional Discretionary Employer Contributions" section earlier in this report. If only the minimum required contribution is made, contributions are not expected to exceed interest on the UAL until FY 2027-28, as shown in the "Amortization Schedule and Alternatives" section of the report (see columns labelled "Current Amortization Schedule").

For projected contributions under alternate investment return scenarios, please see the "Future Investment Return Scenarios" in the "Risk Analysis" section. Our online pension plan projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

Other Pooled Miscellaneous Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown on this page, correspond to rate plan 26759. In many cases, employers have additional rate plans within the same risk pool. For cost analysis and budgeting it is useful to consider contributions for these rate plans as a whole rather than individually. The estimated contribution amounts and rates for all of the employer's rate plans in the Miscellaneous Risk Pool are shown below and assume that the total employer payroll within the Miscellaneous Risk Pool will grow according to the overall payroll growth assumption of 2.80% per year for three years. In a refinement since the prior year's report, Classic members who are projected to terminate employment are assumed to be replaced by PEPRA members.

	Fiscal Year	Fiscal Year
	2023-24	2024-25
Estimated Combined Employer Contributions for all Pooled Miscellaneous Rate Plans		
Projected Payroll for the Contribution Year	\$2,078,616	\$2,280,727
Estimated Employer Normal Cost	\$298,080	\$277,246
Required Payment on Amortization Bases	\$0	\$53,981
Estimated Total Employer Contributions	\$298,080	\$331,227
Estimated Total Employer Contribution Rate (illustrative only)	14.34%	14.52%

Cost

Actuarial Determination of Plan Cost

Contributions to fund the plan are comprised of two components:

- Normal Cost, expressed as a percentage of total active payroll
- Amortization of the Unfunded Accrued Liability (UAL), expressed as a dollar amount

For fiscal years prior to 2015-16, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with FY 2015-16, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There is an option to prepay this amount during July of each fiscal year.

The Normal Cost component is expressed as a percentage of active payroll with employer and employee contributions payable as part of the regular payroll reporting process.

The determination of both components requires complex actuarial calculations. The calculations are based on a set of actuarial assumptions which can be divided into two categories:

- Demographic assumptions (e.g., mortality rates, retirement rates, employment termination rates, disability rates)
- Economic assumptions (e.g., future investment earnings, inflation, salary growth rates)

These assumptions reflect CalPERS' best estimate of future experience of the plan and are long term in nature. We recognize that all assumptions will not be realized in any given year. For example, the investment earnings at CalPERS have averaged 6.9% over the 20 years ending June 30, 2022, yet individual fiscal year returns have ranged from -23.6% to +21.3%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2021.

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" in this report and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

In 2022, SB 1168 increased the standard retiree lump sum death benefit from \$500 to \$2,000 for any death occurring on or after July 1, 2023. For pooled plans this is a Class 3 benefit and there is no normal cost surcharge. The impact on the unfunded liability is included in the pool's (gain)/loss.

Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods or assumptions for the June 30, 2022 actuarial valuation.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2022 and statutory/regulatory changes and board actions through January 2023.

During the time period between the valuation date and the publication of this report, inflation has been significantly higher than the expected inflation of 2.3% per annum. Since inflation influences cost-of-living increases for retirees and beneficiaries and active member pay increases, higher inflation is likely to put at least some upward pressure on contribution requirements and downward pressure on the funded status in the June 30, 2023 valuation. The actual impact of higher inflation on future valuation results will depend on, among other factors, how long higher inflation persists. At this time, we continue to believe the long-term inflation assumption of 2.3% is appropriate.

To the best of our knowledge, there have been no other subsequent events that could materially affect current or future certifications rendered in this report.

Assets and Liabilities

- **Breakdown of Entry Age Accrued Liability**
- **Allocation of Plan's Share of Pool's Experience/Assumption Change**
- **Development of Plan's Share of Pool's Market Value of Assets**
- **Schedule of Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**

Breakdown of Entry Age Accrued Liability

Active Members	\$566,702
Transferred Members	0
Separated Members	4,492
Members and Beneficiaries Receiving Payments	0
Total	\$571,194

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1. Plan's Accrued Liability	\$571,194
2. Projected UAL Balance at 6/30/2022	(37,371)
3. Other UAL Adjustments (Golden Handshake, Prior Service Purchase, etc.)	0
4. Adjusted UAL Balance at 6/30/2022 for Asset Share	(37,371)
5. Pool's Accrued Liability ¹	22,021,735,002
6. Sum of Pool's Individual Plan UAL Balances at 6/30/2022 ¹	2,453,954,297
7. Pool's 2021-22 Investment (Gain)/Loss ¹	2,614,071,182
8. Pool's 2021-22 Non-Investment (Gain)/Loss ¹	309,490,972
9. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (4)] \div [(5) - (6)] \times (7)$	81,299
10. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (5) \times (8)$	8,027
11. Plan's New (Gain)/Loss as of 6/30/2022: $(9) + (10)$	89,326
12. Increase in Pool's Accrued Liability due to Change in Assumptions ¹	0
13. Plan's Share of Pool's Change in Assumptions: $(1) \div (5) \times (12)$	0
14. Increase in Pool's Accrued Liability due to Funding Risk Mitigation ¹	0
15. Plan's Share of Pool's Change due to Funding Risk Mitigation: $(1) \div (5) \times (14)$	0
16. Offset due to Funding Risk Mitigation	0
17. Plan's Investment (Gain)/Loss: $(9) - (16)$	81,299
18. Partial Fresh Start Base: $(2) + (17)$	43,928

¹ Does not include plans that transferred to Pool on the valuation date.

Development of the Plan's Share of Pool's Market Value of Assets

19. Plan's UAL: $(2) + (3) + (11) + (13) + (15)$	\$51,955
20. Plan's Share of Pool's MVA: $(1) - (19)$	\$519,239

Schedule of Amortization Bases

Below is the schedule of the plan's amortization bases. Note that there is a two-year lag between the valuation date and the start of the contribution year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2022.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2024-25.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

Reason for Base	Date Est.	Ramp Level 2024-25	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Expected Payment 2023-24	Balance 6/30/24	Minimum Required Payment 2024-25
Non-Investment (Gain)/Loss	6/30/22	No Ramp		0.00%	20	8,027	0	8,573	0	9,156	823
Partial Fresh Start	6/30/22	20%	Up Only	0.00%	20	43,928	(6,374)	53,502	0	57,140	1,228
Total						51,955	(6,374)	62,075	0	66,296	2,051

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in "Allocation of Plan's Share of Pool's Experience/Assumption Change" earlier in this section. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

The partial fresh start base established June 30, 2022 is the sum of the UAL balance from the June 30, 2021 valuation (projected to June 30, 2022) and the June 30, 2022 investment loss, as shown on the previous page.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Many agencies have expressed a desire for a more stable pattern of payments or have indicated interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a fresh start, please contact the plan actuary.

The Current Amortization Schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives (continued)

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	20 Year Amortization		15 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2024	66,296	2,051	66,296	5,962	66,296	6,955
6/30/2025	68,684	3,279	64,643	5,962	63,617	6,955
6/30/2026	69,966	4,508	62,877	5,961	60,755	6,955
6/30/2027	70,065	5,736	60,992	5,961	57,699	6,955
6/30/2028	68,901	6,964	58,979	5,962	54,435	6,955
6/30/2029	66,389	6,964	56,828	5,961	50,949	6,955
6/30/2030	63,706	6,965	54,532	5,962	47,226	6,954
6/30/2031	60,840	6,964	52,079	5,961	43,251	6,955
6/30/2032	57,781	6,965	49,460	5,962	39,004	6,954
6/30/2033	54,512	6,965	46,662	5,961	34,470	6,955
6/30/2034	51,021	6,965	43,675	5,962	29,626	6,954
6/30/2035	47,293	6,964	40,484	5,962	24,454	6,954
6/30/2036	43,312	6,965	37,076	5,962	18,930	6,954
6/30/2037	39,060	6,965	33,436	5,962	13,031	6,955
6/30/2038	34,519	6,965	29,548	5,961	6,730	6,955
6/30/2039	29,668	6,964	25,397	5,962		
6/30/2040	24,489	6,965	20,963	5,962		
6/30/2041	18,956	6,964	16,227	5,961		
6/30/2042	13,048	6,964	11,170	5,962		
6/30/2043	6,738	6,963	5,768	5,961		
6/30/2044						
6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
Total		127,005		119,232		104,320
Interest Paid		60,709		52,936		38,024
Estimated Savings				7,773		22,685

Employer Contribution History

The table below provides a recent history of the required and discretionary employer contributions for the plan. The required amounts are based on the actuarial valuation from two years prior without subsequent adjustments, if any. Additional discretionary payments before July 1, 2019 or after April 28, 2023 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)	Additional Discretionary Payments
2016 - 17	6.555%	\$123	N/A
2017 - 18	6.533%	147	N/A
2018 - 19	6.842%	406	N/A
2019 - 20	6.985%	1,520	6,874
2020 - 21	7.732%	1,626	1,775
2021 - 22	7.59%	441	0
2022 - 23	7.47%	1,970	0
2023 - 24	7.68%	0	
2024 - 25	7.87%	2,051	

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2014	\$6,335	\$6,617	(\$282)	104.5%	\$81,266
06/30/2015	25,603	24,257	1,346	94.7%	124,439
06/30/2016	50,234	44,756	5,478	89.1%	131,935
06/30/2017	79,977	76,926	3,051	96.2%	185,131
06/30/2018	126,858	118,010	8,848	93.0%	197,780
06/30/2019	190,504	183,563	6,941	96.4%	382,828
06/30/2020	281,022	271,974	9,048	96.8%	523,974
06/30/2021	425,527	468,372	(42,845)	110.1%	530,269
06/30/2022	571,194	519,239	51,955	90.9%	871,001

Risk Analysis

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Funded Status – Termination Basis**

Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer contributions. The projections below reflect the impact of the CalPERS Funding Risk Mitigation policy. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The first table shows projected contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2042.

Assumed Annual Return FY 2022-23 through 2041-42	Projected Employer Contributions				
	2025-26	2026-27	2027-28	2028-29	2029-30
3.0% (5th percentile)					
Normal Cost Rate	7.9%	7.9%	7.9%	7.9%	7.9%
UAL Contribution	\$3,800	\$6,000	\$8,700	\$12,000	\$14,000
10.8% (95th percentile)					
Normal Cost Rate	8.1%	8.3%	8.5%	8.7%	8.4%
UAL Contribution	\$2,900	\$3,300	\$3,100	\$0	\$0

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of a one or two standard deviation investment loss in FY 2022-23 on the FY 2025-26 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2025-26.

Assumed Annual Return for Fiscal Year 2022-23	Required Employer Contributions	Projected Employer Contributions
	2024-25	2025-26
(17.2)% (2 standard deviation loss)		
Normal Cost Rate	7.87%	7.9%
UAL Contribution	\$2,051	\$6,300
(5.2)% (1 standard deviation loss)		
Normal Cost Rate	7.87%	7.9%
UAL Contribution	\$2,051	\$4,800

- Without investment gains (returns higher than 6.8%) in FY 2023-24 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2022-23.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2025-26 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2022 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Real Rate of Return Assumption

As of June 30, 2022	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	2.3%	2.3%	2.3%
Real Rate of Return	3.5%	4.5%	5.5%
a) Total Normal Cost	19.53%	15.62%	12.65%
b) Accrued Liability	\$706,466	\$571,194	\$464,996
c) Market Value of Assets	\$519,239	\$519,239	\$519,239
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$187,227	\$51,955	(\$54,243)
e) Funded Ratio	73.5%	90.9%	111.7%

Sensitivity to the Price Inflation Assumption

As of June 30, 2022	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	1.3%	2.3%	3.3%
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	16.48%	15.62%	14.20%
b) Accrued Liability	\$599,352	\$571,194	\$518,460
c) Market Value of Assets	\$519,239	\$519,239	\$519,239
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$80,113	\$51,955	(\$779)
e) Funded Ratio	86.6%	90.9%	100.2%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2022 plan costs and funded status under two different longevity scenarios, namely assuming post-retirement rates of mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of a change in the mortality assumption.

As of June 30, 2022	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	15.89%	15.62%	15.37%
b) Accrued Liability	\$582,614	\$571,194	\$560,636
c) Market Value of Assets	\$519,239	\$519,239	\$519,239
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$63,375	\$51,955	\$41,397
e) Funded Ratio	89.1%	90.9%	92.6%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables, and changes in longevity or other demographic assumptions.

Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures are for one rate plan only. One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio starts increasing. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	June 30, 2021	June 30, 2022
1. Retired Accrued Liability	\$0	\$0
2. Total Accrued Liability	425,527	571,194
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.00	0.00

Another measure of maturity level of CalPERS and its plans is to look at the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, maybe less informative than the ratio of retiree liability to total accrued liability above.

For comparison, the support ratio for all CalPERS public agency plans as of June 30, 2021, was 0.78 and was calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	June 30, 2021	June 30, 2022
1. Number of Actives	10	16
2. Number of Retirees	0	0
3. Support Ratio [(1) / (2)]	N/A	N/A

Maturity Measures (continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary growth, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with AVR of 8 may experience twice the contribution volatility due to investment return volatility than a plan with AVR of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as a plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with LVR of 8 is expected to have twice the contribution volatility of a plan with LVR of 4. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2021	June 30, 2022
1. Market Value of Assets	\$468,372	\$519,239
2. Payroll	530,269	871,001
3. Asset Volatility Ratio (AVR) [(1) / (2)]	0.9	0.6
4. Accrued Liability	\$425,527	\$571,194
5. Liability Volatility Ratio (LVR) [(4) / (2)]	0.8	0.7

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	0.00	N/A	0.4	0.4
06/30/2018	0.00	N/A	0.6	0.6
06/30/2019	0.00	N/A	0.5	0.5
06/30/2020	0.00	N/A	0.5	0.5
06/30/2021	0.00	N/A	0.9	0.8
06/30/2022	0.00	N/A	0.6	0.7

Funded Status – Termination Basis

The funded status measured on a termination basis is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2022. The accrued liability on a termination basis (termination liability) is calculated differently compared to the plan’s ongoing funding liability. For the termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees. Unlike the actuarial cost method used for ongoing plans, the termination liability is the present value of the benefits earned through the valuation date.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 19-month period from 12 months before the valuation date to seven months after.

Market Value of Assets (MVA)	Discount Rate: 1.75% Price Inflation: 2.50%			Discount Rate: 4.50% Price Inflation: 2.75%		
	Termination Liability ^{1,2}	Funded Ratio	Unfunded Termination Liability	Termination Liability ^{1,2}	Funded Ratio	Unfunded Termination Liability
\$519,239	\$1,180,698	44.0%	\$661,459	\$566,491	91.7%	\$47,252

¹ The termination liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A of the Section 2 report.

² The discount rate used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 3.38% on June 30, 2022, the valuation date.

In order to terminate the plan, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. Before beginning this process, please consult with the plan actuary.

Participant Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2021	June 30, 2022
Active Members		
Counts	10	16
Average Attained Age	39.8	40.8
Average Entry Age to Rate Plan	35.8	37.5
Average Years of Credited Service	4.0	3.3
Average Annual Covered Pay	\$53,027	\$54,438
Annual Covered Payroll	\$530,269	\$871,001
Present Value of Future Payroll	\$6,303,585	\$9,700,281
Transferred Members	0	0
Separated Members	1	1
Retired Members and Beneficiaries*		
Counts	0	0
Average Annual Benefits	\$0	\$0
Total Annual Benefits	\$0	\$0

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

* Values include community property settlements.

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- None

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Member Category	Benefit Group	
	Misc	
Demographics		
Actives	Yes	
Transfers/Separated	Yes	
Receiving	No	
Benefit Provision		
Benefit Formula	2% @ 62	
Social Security Coverage	No	
Full/Modified	Full	
Employee Contribution Rate	7.75%	
Final Average Compensation Period	Three Year	
Sick Leave Credit	Yes	
Non-Industrial Disability	Standard	
Industrial Disability	No	
Pre-Retirement Death Benefits		
Optional Settlement 2	Yes	
1959 Survivor Benefit Level	No	
Special	No	
Alternate (firefighters)	No	
Post-Retirement Death Benefits		
Lump Sum	\$2000	
Survivor Allowance (PRSA)	No	
COLA	2%	

PEPRA Member Contribution Rates

The California Public Employees' Pension Reform Act of 2013 (PEPRA) established new benefit formulas, final compensation period, and contribution requirements for "new" employees (generally those first hired into a CalPERS-covered position on or after January 1, 2013). In accordance with Government Code Section 7522.30(b), "new members ... shall have an initial contribution rate of at least 50% of the normal cost rate." The normal cost for the plan is dependent on the benefit levels, actuarial assumptions, and demographics of the risk pool, particularly members' entry age. Should the total normal cost rate change by more than 1% from the base total normal cost rate, the new member rate shall be 50% of the new normal cost rate rounded to the nearest quarter percent.

The table below shows the determination of the PEPRA member contribution rates effective July 1, 2024, based on 50% of the total normal cost rate as of the June 30, 2022 valuation.

Rate Plan Identifier	Benefit Group Name	Basis for Current Rate		Rates Effective July 1, 2024			
		Total Normal Cost	Member Rate	Total Normal Cost	Change	Change Needed	Member Rate
26759	Miscellaneous PEPRA Level	15.43%	7.75%	15.62%	0.19%	No	7.75%

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Risk Pool Actuarial Valuation Information

**Section 2 may be found on the
CalPERS website (www.calpers.ca.gov)
in the Forms and Publications section**