

# METROPOLITAN TRANSIT AUTHORITY NON-UNION PENSION PLAN

GASB 67 and 68 DISCLOSURE Fiscal Year: October 1, 2022 to September 30, 2023

### Prepared by

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## **Executive Summary**

A.	<b>Summary</b>	of Key	Results
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Reporting Date	<b>September 30, 2022</b>	September 30, 2023	
Valuation Date	January 1, 2021	January 1, 2022	
Participant Data			
Number of participants			
Active participants	420	344	
Terminated vested participants	74	79	
Retired participants	297	326	
Disabled participants	0	0	
Beneficiaries	<u>64</u>	<u>67</u>	
Total participants	855	816	
Covered payroll at reporting date	\$40,062,815	\$35,434,804	
Measurement Date	December 31, 2021	December 31, 2022	
Assets			
Fiduciary net position	\$211,156,385	\$177,050,322	
Money-weighted rate of return	11.55%	(14.14%)	
Net Pension Liability			
Total pension liability	\$300,676,330	\$313,408,393	
Fiduciary net position	<u>211,156,385</u>	177,050,322	
Net pension liability	\$89,519,945	\$136,358,071	
Discount rate	6.25%	6.25%	
Fiduciary net position as of % total pension liability	70.23%	56.49%	
Net pension liability as of % covered payroll	223.45%	384.81%	
Reporting Date	September 30, 2022	September 30, 2023	
Pension Expense			
Service cost	\$3,167,837	\$2,980,128	
Interest on total pension liability	18,405,328	18,437,014	
Effect of plan changes	0	0	
Administrative expenses	324,750	278,324	
Expected investment return net of investment expenses	(12,287,936)	(13,056,772)	
Recognition of deferred inflows/outflows of resources	(1,827,326)	12,574,984	
Pension expense	\$7,782,653	\$21,213,678	

### **B.** Purpose of this Report

This accounting report has been prepared for the Metropolitan Transit Authority Non-Union Pension Plan for the fiscal year October 1, 2022 to September 30, 2023 to:

- Calculate the Net Pension Liability.
- Prepare the Plan's Pension Expense.
- Review the Plan's depletion date projection.

The Valuation Date is January 1, 2022. This is the date as of which the actuarial valuation is performed. The Measurement Date is December 31, 2022. This is the date as of which the net pension liability is determined. The Reporting Date is September 30, 2023. This is the employer's fiscal year ending date.

### C. Net Pension Liability

The graph below illustrates the total pension liability and the net pension liability (funded status) for the current and preceding two years.

### **Historical Total Pension Liability**



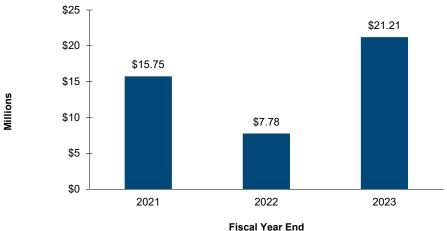
### D. Pension Expense for the 2023 Fiscal Year End

The Pension Expense measured for the plan year ending December 31, 2022 and reported for the fiscal year ending September 30, 2023 is \$21,213,678.

**Pension Expense** 

The graph below illustrates the Pension Expense for the current and preceding two fiscal years.





### E. Depletion Date

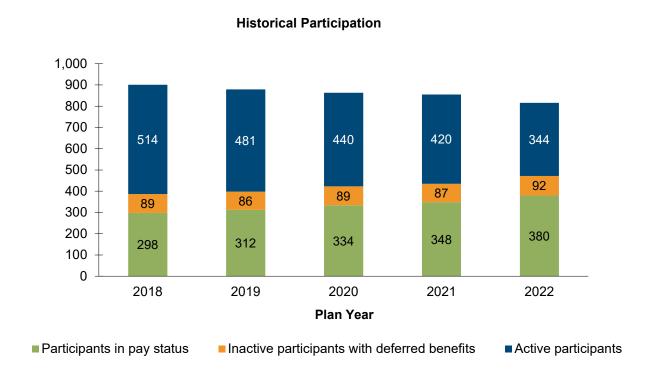
As of December 31, 2022, our projections show the plan will have enough assets to make projected benefit payments under the assumptions outlined on page 9 and developed on page 12 of the report.

### F. Plan Experience

#### **Change in Demographics**

From January 1, 2021 to January 1, 2022, the number of active participants in the Plan decreased by 18.1% from 420 to 344; while the total number of participants decreased by 4.6% from 855 to 816.

The following graph illustrates the count of participants, by category, as of the valuation date for the current and preceding four plan years.



#### **Total Pension Liability**

Under the Entry Age Normal actuarial cost method, and prior to reflecting any plan, method or assumption changes, liability experience for the 2022 plan year was less favorable than expected, generating a net actuarial loss as follows:

 Demographic experience different from that assumed, which resulted in an actuarial loss of approximately \$2.4 million.

In addition, the actuarial assumption changes resulted in an overall loss of approximately \$6.5 million as follows:

• The revised salary scale assumption resulted in an increase of the total pension liability of approximately \$6.5 million.

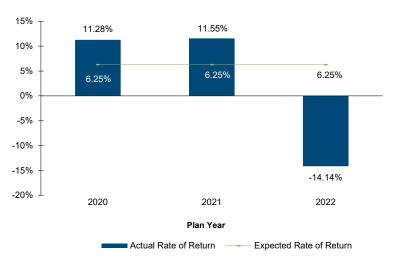
#### **Change in Assets**

Asset experience for the 2022 plan year was less favorable than expected.

• The 2022 rate of return on the market value of plan assets was approximately (14.14%), significantly below the assumed rate of 6.25%, resulting in an investment loss of approximately \$42.6 million.

The following graph illustrates the investment performance on a market value basis for the preceding three plan years.

### **Historical Investment Performance**



### **G.** Actuarial Methods and Assumptions

The actuarial methods and assumptions used in this measurement are the same as those used in the prior measurement except as follows:

• The salary scale assumption was updated from 3.00% per year to 3.533% for 2022, 8.617% for 2023, and 3.00% per year thereafter.

These changes were made to better reflect anticipated future plan experience.

#### H. Plan Provisions

The January 1, 2022 measurement reflects the plan provisions in effect on January 1, 2022, including the following:

An increase in the Internal Revenue Code (IRC) Section 401(a)(17) compensation limit from \$290,000 to \$305,000. This change had an immaterial impact on the December 31, 2022 measurement of Plan liabilities.

### Certification

Actuarial computations presented in this report under Statements No. 67 and 68 of the Governmental Accounting Standards Board are for purposes of assisting METRO in fulfilling its financial accounting requirements. No attempt is being made to offer any accounting opinion or advice. This report is for fiscal year October 1, 2022 to September 30, 2023. The reporting date for determining plan assets and obligations is December 31, 2022. The calculations enclosed in this report have been made on a basis consistent with our understanding of the plan provisions. Determinations for purposes other than meeting financial reporting requirements may be significantly different than the results contained in this report. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security or meeting employer funding requirements.

In preparing this report, we relied, without audit, on information as of January 1, 2022 and December 31, 2022 furnished by METRO. This information includes, but is not limited to, statutory provisions, member census data, and financial information. Please see Milliman's funding valuation report issued August 11, 2022 for more information on the plan's participant group as of January 1, 2022 as well as a summary of the plan provisions and a summary of the actuarial methods used for funding purposes. Please see Milliman's preliminary December 31, 2022 valuation assumptions report dated April 18, 2023 for a summary of the assumptions used in this measurement.

We performed a limited review of the census and financial information used directly in our analysis and have found them to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

We hereby certify that, to the best of our knowledge, this report, including all costs and liabilities based on actuarial assumptions and methods, is complete and accurate and determined in conformance with generally recognized and accepted actuarial principles and practices, which are consistent with the Actuarial Standards of Practice promulgated by the Actuarial Standards Board and the applicable Guides to Professional Conduct, amplifying Opinions and supporting Recommendations of the American Academy of Actuaries.

Each of the assumptions used in this valuation with the exception of those set by law was set based on industry standard published tables and data, the particular characteristics of the plan, relevant information from the plan sponsor or other sources about future expectations, and our professional judgment regarding future plan experience. We believe the assumptions are reasonable for the contingencies they are measuring, and are not anticipated to produce significant cumulative actuarial gains or losses over the measurement period.

This valuation report is only an estimate of the Plan's financial condition as of a single date. It can neither predict the Plan's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of Plan benefits, only the timing of Plan contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

### Certification

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuarial assignment, we did not perform an analysis of the potential range of such future measurements.

Milliman has developed certain models to estimate the values included in this report. The valuation results were developed using models intended for valuations that use standard actuarial techniques. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice (ASOP).

There is substantial uncertainty regarding the impact of the COVID-19 pandemic on projected plan costs. Therefore, for purposes of this report, we have chosen not to make any adjustments to these costs. However, please be aware that the COVID-19 pandemic could have a material cost impact in future valuations.

Milliman's work is prepared solely for the internal use and benefit of Metropolitan Transit Authority of Harris County, Texas. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exceptions: (a) the Plan Sponsor may provide a copy of Milliman's work, in its entirety, to the Plan Sponsor's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit METRO; and (b) the Plan Sponsor may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by

No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their specific needs.

The consultants who worked on this assignment are retirement actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and has been prepared in accordance with generally recognized accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

Tumlinson, Jr., EA, MAAA

Principal and Consulting Actuary

Principal and Consulting Actuary

### Overview of GASB 67 and GASB 68

The Governmental Accounting Standards Board (GASB) released new accounting standards for public pension plans and participating employers in 2012. These standards, GASB Statements No. 67 and 68, have substantially revised the accounting requirements previously mandated under GASB Statements No. 25 and 27. The most notable change is the distinct separation of funding from financial reporting. The Annual Required Contribution (ARC) has been eliminated under GASB 67 and 68 and is no longer relevant for financial reporting purposes. As a result, plan sponsors have been encouraged to establish a formal funding policy that is separate from financial reporting calculations.

GASB 67 applies to financial reporting for public pension plans and is required to be implemented for plan fiscal years beginning after June 15, 2013. Note that a plan's fiscal year might not be the same as the employer's fiscal year. Even if the plan does not issue standalone financial statements, but rather is considered a pension trust fund of a government, it is subject to GASB 67. Under GASB 67, enhancements to the financial statement disclosures are required, along with certain required supplementary information.

GASB 68 governs the specifics of accounting for public pension plan obligations for participating employers and is required to be implemented for employer fiscal years beginning after June 15, 2014. GASB 68 requires a liability for pension obligations, known as the Net Pension Liability, to be recognized on the balance sheets of participating employers. Changes in the Net Pension Liability will be immediately recognized as Pension Expense on the income statement or reported as deferred inflows/outflows of resources depending on the nature of the change.

## **Statement of Fiduciary Net Position**

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Assets		
Cash and cash equivalents	\$1,574,865	\$2,601,861
Receivables and prepaid expenses:		
Receivable contributions	0	0
Receivable investment income	14,476	27,098
Receivables from brokers for unsettled trades	0	2,290
Prepaid expenses	0	0
Total receivables	14,476	29,388
Investments:		
Fixed income	53,355,771	45,920,807
Stocks	127,505,700	98,388,472
Short-term investments	0	0
Real estate	28,879,440	30,242,254
Alternative investments	0	0
Total investments	209,740,911	174,551,533
Invested securities lending cash collateral	0	0
Capital assets net of accumulated depreciation	0	0
Total assets	211,330,252	177,182,782
Liabilities		
Accrued expenses and benefits payable	173,867	132,460
Securities lending cash collateral	0	0
Payable to brokers for unsettled trades	0	0
Total liabilities	173,867	132,460
Net position restricted for pensions	\$211,156,385	\$177,050,322

## **Statement of Changes in Fiduciary Net Position**

	<b>December 31, 2022</b>
Additions	
Member contributions	\$0
Employer contributions	13,308,196
Total contributions	13,308,196
Investment income (loss):	
Interest	46,298
Dividends	998,984
Equity fund income, net	0
Net increase in fair value of investments	(30,036,962)
Securities lending income	0
Less investment expenses:	
Direct investment expense	549,135
Securities lending management fees	0
Securities lending borrower rebates	0
Net investment income	(29,540,815)
Other income	0
Total additions	(16,232,619)
Deductions	
Service benefits	17,595,120
Disability benefits	0
Death benefits	0
	U
Refunds of member contributions	0
	· · · · · · · · · · · · · · · · · · ·
Refunds of member contributions	0
Refunds of member contributions Administrative expenses	0 278,324
Refunds of member contributions Administrative expenses  Total deductions	0 278,324 17,873,444
Refunds of member contributions Administrative expenses  Total deductions  Net increase (decrease)  Net position restricted for pensions	0 278,324 17,873,444 (34,106,063)
Refunds of member contributions Administrative expenses  Total deductions  Net increase (decrease)	0 278,324 17,873,444

GASB 67 and 68 Disclosure for Fiscal Year Ending September 30, 2023 Metropolitan Transit Authority Non-Union Pension Plan Page 5

This work product was prepared solely for METRO for the purposes described herein and may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Milliman recommends that third parties be aided by their own actuary or other qualified professional when reviewing the Milliman work product.

### **Money-Weighted Rate of Return**

Measurement	Net
<b>Year Ending</b>	<b>Money-Weighted</b>
December 31	Rate of Return
2013	17.42%
2014	3.49%
2015	(4.00%)
2016	6.98%
2017	16.46%
2018	(6.60%)
2019	16.79%
2020	11.28%
2021	11.55%
2022	(14.14%)

### **Calculation of Money-Weighted Rate of Return**

The money-weighted rate of return considers the changing amounts actually invested during a period and weights the amount of pension plan investments by the proportion of time they are available to earn a return during that period. External cash flows are determined on an annual basis and are assumed to occur at the middle of the year. External cash inflows are netted with external cash outflows, resulting in a net external cash flow in each year. The money-weighted rate of return is calculated net of investment expenses.

**Net External** 

	Cash Flows
Beginning Value - January 1, 2022	\$211,156,385
Annual net external cash flows: Employer contributions Employee contributions Benefit payments Administrative expenses	13,308,196 0 (17,595,120) (278,324)
Total	(4,565,248)
Investment Income	(29,540,815)
Ending Value - December 31, 2022	177,050,322

Money-Weighted Rate of Return

(14.14%)

### **Net Pension Liability**

Net Pension Liability	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Total pension liability	\$300,676,330	\$313,408,393
Fiduciary net position	<u>211,156,385</u>	177,050,322
Net pension liability	\$89,519,945	\$136,358,071
Fiduciary net position as a % of total pension liability	70.23%	56.49%
Covered payroll	40,062,815	35,434,804
Net pension liability as a % of covered payroll	223.45%	384.81%

The total pension liability was determined by an actuarial valuation as of the valuation date, calculated based on the discount rate and actuarial assumptions below, and was then projected forward to the measurement date. Any significant changes during this period have been reflected as prescribed by GASB 67 and 68.

#### **Discount Rate**

Discount rate	6.25%	6.25%
Long-term expected rate of return, net of investment expense	6.25%	6.25%
Municipal bond rate	N/A	N/A

The plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the discount rate for calculating the total pension liability is equal to the long-term expected rate of return.

#### **Other Key Actuarial Assumptions**

The actuarial assumptions that determined the total pension liability as of December 31, 2022 were based on the results of an actuarial experience study for the period January 1, 2015 - December 31, 2018.

Valuation date	January 1, 2021	January 1, 2022
Measurement date	December 31, 2021	December 31, 2022
Actuarial cost method	Entry Age Normal	Entry Age Normal
Inflation	2.30%	2.33%
Salary increases including inflation	3.00%	3.533% for 2022, 8.617% for 2023, and 3.00% thereafter
Mortality	Pub-2010 Mortality, projected forward (fully generational) with MP-2021	Pub-2010 Mortality, projected forward (fully generational) with MP-2021

Please see Milliman's preliminary assumptions reports for December 31, 2021 measurements, dated April 12, 2022, and for December 31, 2022 measurements, dated April 18, 2023, for more detail.

## **Long-Term Expected Rate of Return**

The assumption for the long-term expected rate of return is determined by adding expected inflation to expected long-term real returns and reflecting expected volatility and correlation. The capital market assumptions are per Milliman's investment consulting practice as of January 1, 2023 based on a 30-year investment horizon.

Asset Class	Index	Actual Allocation*	Long-Term Expected Arithmetic Real Rate of Return	Long-Term Expected Geometric Real Rate of Return
US Cash US Core Fixed Income (Aggregate Global Bonds US Large & Mid Cap Equity US Small Cap Equity US Small & Mid Cap Equity US Large & Mid Cap Value Equity US Mid Cap Growth Equity US Mid Cap Growth Equity US Mid Cap Equity Non-US Equity Non-US Small Cap Equity US REITs	BAML 3-Month T-Bills	1.29% 18.27% 7.64% 15.97% 2.52% 3.88% 4.40% 7.15% 5.13% 11.61% 5.02%	0.61% 2.27% 0.72% 5.65% 7.25% 6.50% 5.41% 6.57% 6.43% 7.65% 7.51% 6.71%	0.59% 2.13% 0.42% 4.03% 4.67% 4.10% 3.88% 3.56% 4.82% 5.81% 5.31% 4.50%
		100.00%		
Assumed Inflation - Mean Assumed Inflation - Standard Devia	ation		2.33% 1.41%	2.33% 1.41%
Portfolio Real Mean Return			5.27%	4.35%
Portfolio Nominal Mean Return			7.60%	6.82%
Portfolio Standard Deviation				13.21%
Long-Term Expected Rate of Ret	urn			6.25%

<sup>\*</sup> Actual allocation as of December 31, 2022.

## **Depletion Date Projection**

In order to determine if the plan's fiduciary net position is projected to be sufficient to make projected benefit payments, we have prepared a depletion date projection using the following techniques and assumptions:

- There are no required employee contribution amounts.
- The employer contributes the actuarially determined contribution amounts.
- Benefit payments are projected based on the actuarial assumptions and the current plan provisions.
- Members are assumed to receive pay increases, terminate, retire, become disabled, die, and so forth according to the actuarial assumptions used for the January 1, 2023 measurements.
- Terminating and retiring members will not be replaced with new employees.
- Current administrative expenses are assumed to increase by 1.00% per year.
- All cash flows are assumed to occur on average halfway through the year.
- The long-term expected rate of return on pension plan investments is 6.25%.
- The tax-exempt, high-quality general obligation municipal bond index rate is N/A.
- The funding policy used to determine actuarially determined contributions does not change. See the last page of this report for details.
- The actuarial assumptions do not change.
- The plan provisions do not change except if any material future changes have been agreed upon as of the measurement date.

Actual results at each point in time will yield different values, reflecting the actual experience of the plan membership and assets.

In accordance with ASOP 51, please refer to Appendix C of the valuation report issued August 11, 2022 which identifies, assesses, and provides illustrations of risks that are significant to the Plan, and in some cases to the Plan's participants.

## **Projection of Contributions**

	Projected	Projected		Contributions	Employer	Contributions	
	Payroll	Payroll	Total	from	Contributions	from	
	Current	Future	<b>Employee</b>	Current	for Current	Future	Total
Year	<b>Employees</b>	<b>Employees</b>	Payroll	<b>Employees</b>	<b>Employees</b>	Employees	Contributions
1	\$27,043,984	\$0	\$27,043,984	\$0	\$13,244,006	\$0	\$13,244,006
2	24,427,277	0	24,427,277	0	13,106,596	0	13,106,596
3	21,906,849	0	21,906,849	0	13,313,569	0	13,313,569
4	19,774,055	0	19,774,055	0	13,702,630	0	13,702,630
5	17,825,003	0	17,825,003	0	14,331,860	0	14,331,860
6	16,039,651	0	16,039,651	0	14,069,711	0	14,069,711
7	14,368,213	0	14,368,213	0	13,823,976	0	13,823,976
8	12,824,029	0	12,824,029	0	13,594,265	0	13,594,265
9	11,375,840	0	11,375,840	0	13,378,451	0	13,378,451
10	10,023,592	0	10,023,592	0	13,174,197	0	13,174,197

Note: Years subsequent to year 10 have been omitted from this table.

## **Projection of Fiduciary Net Position**

	Projected Beginning Fiduciary	Projected Total	Projected Benefit	Projected Adminstrative	Projected Investment	Projected Ending Fiduciary
Year	Net Position	Contributions	Payments	Expenses	Earnings	Net Position
1	\$177,050,322	\$13,244,006	\$21,523,602	\$281,107	\$10,798,123	\$179,287,742
2	179,287,742	13,106,596	21,873,418	283,918	10,922,648	181,159,650
3	181,159,650	13,313,569	22,347,189	286,757	11,031,216	182,870,489
4	182,870,489	13,702,630	23,024,416	289,625	11,129,049	184,388,127
5	184,388,127	14,331,860	23,569,649	292,521	11,226,436	186,084,253
6	186,084,253	14,069,711	23,853,168	295,446	11,315,300	187,320,650
7	187,320,650	13,823,976	24,534,646	298,400	11,363,507	187,675,087
8	187,675,087	13,594,265	24,517,286	301,384	11,378,930	187,829,612
9	187,829,612	13,378,451	24,646,737	304,398	11,377,704	187,634,632
10	187,634,632	13,174,197	24,478,873	307,442	11,364,286	187,386,800

Note: Years subsequent to year 10 have been omitted from this table.

## **Actuarial Present Value of Projected Benefit Payments**

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	Present Value of "Funded" Benefit Payments*	Present Value of "Unfunded" Benefit Payments**	Present Value of Total Benefit Payments***
1	\$177,050,322	\$21,523,602	\$21,523,602	\$0	\$20,880,961	\$0	\$20,880,961
2	179,287,742	21,873,418	21,873,418	0	19,972,078	0	19,972,078
3	181,159,650	22,347,189	22,347,189	0	19,204,392	0	19,204,392
4	182,870,489	23,024,416	23,024,416	0	18,622,472	0	18,622,472
5	184,388,127	23,569,649	23,569,649	0	17,942,084	0	17,942,084
6	186,084,253	23,853,168	23,853,168	0	17,089,797	0	17,089,797
7	187,320,650	24,534,646	24,534,646	0	16,544,045	0	16,544,045
8	187,675,087	24,517,286	24,517,286	0	15,559,848	0	15,559,848
9	187,829,612	24,646,737	24,646,737	0	14,721,886	0	14,721,886
10	187,634,632	24,478,873	24,478,873	0	13,761,523	0	13,761,523
95	36,853	0	0	0	0	0	0
96	37,196	0	0	0	0	0	0
97	37,577	0	0	0	0	0	0
98	37,884	0	0	0	0	0	0
99	38,337	0	0	0	0	0	0
Total					324,851,274	0	324,851,274

Note: Years 11-94 have been omitted from this table.

<sup>\*</sup> Discounted at the long-term expected rate of return, 6.25%.

<sup>\*\*</sup> Discounted at the municipal bond rate, N/A.

<sup>\*\*\*</sup> Discounted at the single interest rate that produces a total actuarial present value equal to the sum of the actuarial present values of "funded" and "unfunded" benefit payments, 6.25%.

## **Changes in Net Pension Liability**

	In	crease (Decreas	e)
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability
Changes in Net Pension Liability	(a)	(b)	(a) - (b)
Balances as of December 31, 2021	\$300,676,330	\$211,156,385	\$89,519,945
Changes for the year:			
Service cost	2,980,128		2,980,128
Interest on total pension liability	18,437,014		18,437,014
Effect of plan changes	0		0
Effect of economic/demographic gains or losses	2,366,449		2,366,449
Effect of assumptions changes or inputs	6,543,592		6,543,592
Benefit payments	(17,595,120)	(17,595,120)	0
Employer contributions		13,308,196	(13,308,196)
Member contributions		0	0
Net investment income		(29,540,815)	29,540,815
Administrative expenses		(278,324)	278,324
Balances as of December 31, 2022	313,408,393	177,050,322	136,358,071

#### **Sensitivity Analysis**

The following presents the net pension liability of METRO, calculated using the discount rate of 6.25%, as well as what METRO's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (5.25%) or 1 percentage point higher (7.25%) than the current rate.

	1% Decrease 5.25%	Current Discount Rate 6.25%	1% Increase 7.25%
n liability	\$345,438,398	\$313,408,393	\$286,087,520
ary net position	177,050,322	177,050,322	177,050,322
ability	168,388,076	136,358,071	109,037,198

## **Pension Expense**

	October 1, 2021 to	October 1, 2022 to
Pension Expense	<b>September 30, 2022</b>	<b>September 30, 2023</b>
Service cost	\$3,167,837	\$2,980,128
Interest on total pension liability	18,405,328	18,437,014
Effect of plan changes	0	0
Administrative expenses	324,750	278,324
Member contributions	0	0
Expected investment return net of investment expenses	(12,287,936)	(13,056,772)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	1,101,712	1,887,628
Recognition of assumption changes or inputs	2,610,469	4,754,225
Recognition of investment gains or losses	(5,539,507)	5,933,131
Pension Expense	7,782,653	21,213,678

As of September 30, 2023, the deferred inflows and outflows of resources are as follows:

Defended by the second of December 1	Deferred Inflows	Deferred Outflows
Deferred Inflows / Outflows of Resources	of Resources	of Resources
Differences between expected and actual experience	(\$218,280)	\$2,468,433
Changes of assumptions	(163,407)	4,807,786
Net difference between projected and actual earnings	0	20,791,892
Contributions made subsequent to measurement date*	N/A	Employer determined

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

Year ended September 30:	
2024	\$5,022,101
2025	7,707,592
2026	6,437,212
2027	8,519,519
2028	0
Thereafter**	0

<sup>\*</sup> Contributions to the pension plan from the employer subsequent to the measurement date of the net pension liability and before the end of the reporting period should be reported as a deferred outflow of resources related to pensions.

<sup>\*\*</sup> Note that additional future deferred inflows and outflows of resources may impact these numbers.

### Schedule of Deferred Inflows and Outflows of Resources

				Amount	Amount						
				Recognized	Recognized	Balance of	Balance of				
				in Pension	in Pension	<b>Deferred</b>	<b>Deferred</b>				
			Original	Expense	Expense	Inflows	Outflows				
	Original	Date	Rec.	for FYE	through	as of	as of				
	Amount	Established	Period*	09/30/2023	09/30/2023	09/30/2023	09/30/2023				
Economic/	\$2,366,449	9/30/2023	3.0	\$788,816	\$788,816	\$0	\$1,577,633				
demographic	2,144,763	9/30/2022	3.2	670,238	1,340,476	0	804,287				
gains or losses	(1,527,960)	9/30/2021	3.5	(436,560)	(1,309,680)	(218,280)	0				
	3,547,049	9/30/2020	4.1	865,134	3,460,536	<u>0</u>	<u>86,513</u>				
		Total		1,887,628		(218,280)	2,468,433				
	0.540.500	0/00/0000	0.0	0.404.407	0.404.407		4 000 005				
Assumption	6,543,592	9/30/2023	3.0	2,181,197	2,181,197	0	4,362,395				
changes or	452,087	9/30/2022	3.2	141,277	282,554	0	169,533				
inputs	(1,143,852)		3.5	(326,815)	(980,445)	(163,407)	0				
	11,310,122	9/30/2020	4.1	<u>2,758,566</u>	11,034,264	<u>0</u>	275,858				
		Total		4,754,225		(163,407)	4,807,786				
Investment	42,597,587	9/30/2023	5.0	8,519,517	8,519,517	0	34,078,070				
gains or losses	(10,411,517)	9/30/2022	5.0	(2,082,303)	(4,164,606)	(6,246,911)	0				
	(9,309,710)	9/30/2021	5.0	(1,861,942)	(5,585,826)	(3,723,884)	0				
	(16,576,919)	9/30/2020	5.0	(3,315,384)	(13,261,536)	(3,315,383)	0				
	23,366,223	9/30/2019	5.0	4,673,243	23,366,223	<u>0</u>	<u>0</u>				
		Total		5,933,131		(13,286,178)					
Employer contrib	utions made a	ubcoguent to	moocure	mont data **							
Employer contrib	ulions made s	upsequent to	measulei	nent date.							
Total for econor	Total for economic/demographic gains or losses										

Total for economic/demographic gains or losses and assumption changes or inputs	(381,687)	7,276,219
Net deferred (inflows)/outflows for investment gains or losses	0	20,791,892
Total deferred (inflows)/outflows	(381,687)	28,068,111
Total net deferrals		27,686,424

<sup>\*</sup> Investment (gains)/losses are recognized in pension expense over a period of five years; economic/demographic (gains)/losses and assumption changes or inputs are recognized over the average remaining service life for all active and inactive members.

<sup>\*\*</sup> Contributions to the pension plan from the employer subsequent to the measurement date of the net pension liability and before the end of the reporting period should be reported as a deferred outflow of resources related to pensions.

# Schedule of Changes in Net Pension Liability and Related Ratios (in 1,000s)

	Fiscal Year Ending September 30									
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Total Pension Liability										
Service cost	\$2,980	\$3,168	\$3,830	\$3,106	\$3,035	\$3,211	\$3,465	\$2,783	\$2,754	N/A
Interest on total pension liability	18,437	18,405	18,555	17,962	17,396	16,923	16,608	15,166	13,385	N/A
Effect of plan changes	0	0	1,503	0	0	0	0	0	0	N/A
Effect of economic/demographic gains or losses	2,366	2,145	(1,528)	3,547	873	(2,443)	9,768	6,721	0	N/A
Effect of assumption changes or inputs	6,544	452	(1,144)	11,310	11,270	(948)	2,531	12,233	0	N/A
Benefit payments	(17,595)	(29,180)	(16,899)	(15,335)	(12,735)	(13,180)	(10,375)	(8,778)	(8,705)	N/A
Net change in total pension liability	12,732	(5,010)	4,317	20,590	19,838	3,563	21,997	28,124	7,434	N/A
Total pension liability, beginning	300,676	305,686	301,370	280,780	260,942	257,379	235,381	207,258	199,824	N/A
Total pension liability, ending (a)	313,408	300,676	305,686	301,370	280,780	260,942	257,379	235,381	207,258	N/A
Fiduciary Net Position										
Employer contributions	\$13,308	\$13,448	\$14,237	\$12,647	\$11,073	\$11,307	\$11,181	\$11,249	\$9,006	N/A
Member contributions	0	0	0	0	0	0	0	0	0	N/A
Net investment income	(29,541)	22,699	20,882	27,049	(11,548)	25,030	9,971	(5,891)	4,934	N/A
Benefit payments	(17,595)	(29,180)	(16,899)	(15,335)	(12,735)	(13,180)	(10,375)	(8,778)	(8,705)	N/A
Administrative expenses	(278)	(325)	(351)	(280)	(242)	(244)	(226)	(235)	(941)	N/A
Net change in plan fiduciary net position	(34,106)	6,643	17,868	24,080	(13,452)	22,914	10,552	(3,655)	4,294	N/A
Fiduciary net position, beginning	211,156	204,514	186,645	162,565	176,017	153,103	142,552	146,207	141,913	N/A
Fiduciary net position, ending (b)	177,050	211,156	204,514	186,645	162,565	176,017	153,103	142,552	146,207	N/A
Net pension liability, ending = (a) - (b)	\$136,358	\$89,520	\$101,173	\$114,724	\$118,215	\$84,924	\$104,275	\$92,830	\$61,051	N/A
Fiduciary net position as a % of total pension liability	56.49%	70.23%	66.90%	61.93%	57.90%	67.45%	59.49%	60.56%	70.54%	N/A
Covered payroll	\$35,435	\$40,063	\$39,027	\$40,747	\$41,770	\$43,480	\$46,853	\$44,838	\$45,602	N/A
Net pension liability as a % of covered payroll	384.81%	223.45%	259.24%	281.55%	283.01%	195.32%	222.56%	207.03%	133.88%	N/A

This schedule is presented to illustrate the requirement to show information for 10 years. However, recalculations of prior years are not required, and if prior years are not reported in accordance with the current GASB standards, they should not be reported.

#### Notes to Schedule:

Please see Milliman's preliminary December 31, 2022 valuation assumptions report dated April 18, 2023 for a description of changes in principal plan provisions and actuarial assumptions since the prior valuation.

### GASB 67 and 68 Disclosure for Fiscal Year Ending September 30, 2023 Metropolitan Transit Authority Non-Union Pension Plan

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## **Schedule of Employer Contributions**

Fiscal Year	Actuarially	Actual	Contribution		Contribution
<b>Ending</b>	Determined	<b>Employer</b>	Deficiency	Covered	as a % of
September 30	Contribution	Contribution	(Excess)	Payroll	<b>Covered Payroll</b>
2014	\$8,847,436	\$8,847,436	\$0	\$44,388,906	19.93%
2015	9,006,301	9,006,301	0	45,601,509	19.75%
2016	8,911,253	11,248,671	(2,337,418)	44,837,816	25.09%
2017	11,181,136	11,181,136	0	46,853,004	23.86%
2018	11,307,275	11,307,275	0	43,479,995	26.01%
2019	11,060,833	11,073,255	(12,422)	41,769,919	26.51%
2020	12,628,619	12,647,252	(18,633)	40,747,394	31.04%
2021	14,217,959	14,236,592	(18,633)	39,026,869	36.48%
2022	13,429,326	13,447,958	(18,632)	40,062,815	33.57%
2023	12,852,876	13,308,196	(455,320)	35,434,804	37.56%

## **Actuarial Methods and Assumptions Used for Funding Policy**

The following actuarial methods and assumptions were used in the January 1, 2022 valuation unless stated otherwise. Please see Milliman's valuation report issued August 11, 2022 for more detail.

Valuation Timing Actuarially determined contribution amounts are calculated

based on valuations performed as of January 1st 20 months prior to the end of the fiscal year in which the contributions

are reported.

Actuarial Cost Method Entry Age Normal (Level Percent of Salary)

**Amortization Method** 

Level percent or level dollar

Closed, open, or layered periods

Amortization period at 01/01/2022

Amortization growth rate

Level dollar

Closed

21 years

0.00%

**Asset Valuation Method** 

Smoothing period 5 years

Recognition method Non-asymptotic

Corridor 80% - 120% of Market Value

**Inflation** 2.33%, adopted for December 31, 2022 measurement and

beyond.

**Salary Increases** 3.533% for 2022, 8.617% for 2023, and 3.00% thereafter,

adopted for December 31, 2022 measurement and beyond.

**Investment Rate of Return** 6.25%, adopted for December 31, 2019 measurement and

beyond.

Cost of Living Adjustments None.

**Retirement** See retirement rates in the January 1, 2022 valuation report.

**Turnover** See turnover rates in the January 1, 2022 valuation report.

Mortality Pub-2010 Mortality, projected forward (fully generational) with

MP-2021 used for December 31, 2022 measurement.

Optional Form Election See optional payment form assumptions in the January 1,

2022 valuation report.

## **Summary Chart**

	Total	Plan	Net			Net Investment	:	Net Pension	
	Pension	Fiduciary	Pension	Deferred	Deferred	(Inflows)/	Net	Liability plus	Annual
	Liability	Net Position	Liability	(Inflows)	Outflows	Outflows	Deferrals	Net Deferrals	Expense
Balances as of September 30, 2022	(\$300,676,330)	\$211,156,385	(\$89,519,945)	(\$1,145,062)	\$5,771,406	(\$15,872,564)	(\$11,246,220)	(\$100,766,165)	1 1
Service cost	(2,980,128)		(2,980,128)						2,980,128
	(18,437,014)		, , , , ,						18,437,014
Interest on total pension liability	(10,437,014)		(18,437,014)						10,437,014
Effect of plan changes	(0.000.440)		(0.000.440)		0.000.440		0.000.440		U
Effect of liability gains or losses	(2,366,449)		(2,366,449)		2,366,449		2,366,449		
Effect of assumption changes or inputs	(6,543,592)		(6,543,592)		6,543,592		6,543,592		
Benefit payments	17,595,120	(17,595,120)	0						
Administrative expenses		(278,324)	(278,324)						278,324
Member contributions		0	0						0
Expected net investment income		13,056,772	13,056,772						(13,056,772)
Investment gains or losses		(42,597,587)	(42,597,587)			42,597,587	42,597,587		
Employer contributions		13,308,196	13,308,196					13,308,196	
Recognition of liability gains or losses				436,560	(2,324,188)		(1,887,628)		1,887,628
Recognition of assumption changes or inputs				326,815	(5,081,040)		(4,754,225)		4,754,225
Recognition of investment gains or losses						(5,933,131)	(5,933,131)		5,933,131
Annual expense								(21,213,678)	21,213,678
·									
Balances as of September 30, 2023	(313,408,393)	177,050,322	(136,358,071)	(381,687)	7,276,219	20,791,892	27,686,424	(108,671,647)	

### **Glossary**

## Actuarially Determined Contribution

A target or recommended contribution to a defined benefit pension plan for the reporting period, determined based on the funding policy and most recent measurement available when the contribution for the reporting period was adopted.

## Deferred Inflows/Outflows of Resources

Portion of changes in net pension liability that is not immediately recognized in Pension Expense. These changes include differences between expected and actual experience, changes in assumptions, and differences between expected and actual earnings on plan investments.

#### **Discount Rate**

Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the sum of:

- The actuarial present value of benefit payments projected to be made in future periods where the plan assets are projected to be sufficient to meet benefit payments, calculated using the Long-Term Expected Rate of Return.
- 2) The actuarial present value of projected benefit payments not included in (1), calculated using the Municipal Bond Rate.

#### **Fiduciary Net Position**

Equal to market value of assets.

## Long-Term Expected Rate of Return

Long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits, net of investment expenses.

## Money-Weighted Rate of Return

The internal rate of return on pension plan investments, net of investment expenses.

### **Net Pension Liability**

Total Pension Liability minus the Plan's Fiduciary Net Position (unfunded accrued liability).

#### **Projected Benefit Payments**

All benefits estimated to be payable through the pension plan to current active and inactive employees as a result of their past service and expected future service.

#### **Service Cost**

The portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.

#### **Total Pension Liability**

The portion of actuarial present value of projected benefit payments that is attributable to past periods of member service using the Entry Age Normal cost method based on the requirements of GASB 67 and 68.