

#### CREDIT OPINION

27 June 2025



#### Contacts

David Strungis +1.312.706.9970 VP-Senior Analyst david.strungis@moodys.com

Gera M. McGuire +1.214.979.6850

Associate Managing Director gera.mcguire@moodys.com

#### **CLIENT SERVICES**

Americas 1-212-553-1653
Asia Pacific 852-3551-3077
Japan 81-3-5408-4100
EMEA 44-20-7772-5454

# City of Detroit, MI

# Update to analysis

### **Summary**

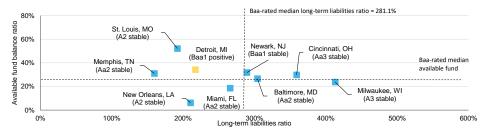
<u>Detroit</u> (Baa1 positive) has bolstered its financial resiliency over the past several years and the city's resurgence will likely continue. The city has a track record of solid operating performance, in large part because of its strong governance practices and it maintains robust reserves and low leverage, all of which will help it to weather the adverse effects of an economic slowdown, should one occur. While recent trade uncertainty is negative for the auto sector, the city's resurgence is unlikely to be materially derailed given the pipeline of major projects that are planned and in construction.

The recent progress is balanced against the city's comparatively high vulnerability to an economic downturn because of its revenue structure, regional concentration in auto manufacturing and outsized social risks, including high unemployment, elevated poverty and still declining population according to the American Community Survey. The resident income ratio remains low at 51%.

Still, the city has consistently maintained strong finance and leverage ratios after emerging from bankruptcy in 2014 and compares well against peers (exhibit 1).

Exhibit 1

Detroit's available fund balance and long-term liabilities ratios compare favorably against other large cities with a low resident income ratios



Source: Moody's Ratings

# **Credit strengths**

- » Ample fund balance and liquidity; robust revenue growth driven by growth in wagering taxes and income taxes despite remote work disruptions
- » Strong budget management practices including semiannual conferences to estimate revenue, long-range financial planning and prudent budget assumptions
- » Low long-term liabilities and fixed costs relative to peers

# **Credit challenges**

» Persistent social challenges; resident income and full value per capita ratios are among the lowest of large US cities, poverty and unemployment are very high

- » Regional labor force is concentrated in auto manufacturing
- » Limited revenue-raising flexibility

### **Rating outlook**

The outlook is positive because of the growing likelihood that the city will build and maintain its financial resiliency in line with higher rated peers and that its renewed tax base and revenue growth will help absorb any costs pressures. While recent trade uncertainty is negative for the auto sector, the city's resurgence is unlikely to be materially derailed given the pipeline of major projects that are planned and in construction. Also, the city's use of semi-annual revenue estimating conferences, multi-year forecasting and other strong governance practices will enable it to weather economic uncertainty or slowdown, should it occur.

# Factors that could lead to an upgrade

- » Tax base growth that boosts full value per capita closer to \$65,000 or wage and employment growth that increases the adjusted MHI ratio closer to 60%
- » Continued maintenance of the available fund balance ratio around 30% and net cash ratio around 40%
- » Continued maintenance of the long-term liabilities ratio between 200% and 350% and fixed costs around 15%

# Factors that could lead to a downgrade

- » Decreased available fund balance and net cash ratios to closer to 25% and 30%, respectively.
- » Sustained increase in long-term liabilities ratio over 400%
- » Acceleration of depopulation trends compared to prior decade, material tax base declines that reduce the full value per capita below \$40,000, or an adjusted MHI ratio well below 50%.
- » Reversal of good governance practices, such as semi-annual revenue estimating conferences and multi-year forecasting

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the issuer/deal page on https://ratings.moodys.com for the most updated credit rating action information and rating history.

# **Key indicators**

Exhibit 2

Detroit (City of) MI

	2021	2022	2023	2024	Baa Medians
Economy	<del></del>	<del></del> ,	<del></del>	<del></del>	
Resident income ratio (%)	52.3%	52.2%	51.4%	N/A	76.1%
Full Value (\$000)	\$21,269,506	\$21,889,025	\$26,391,738	\$29,477,735	\$755,957
Population	645,658	636,787	636,644	N/A	14,678
Full value per capita (\$)	\$32,942	\$34,374	\$41,454	N/A	\$52,913
Annual Growth in Real GDP	5.6%	3.0%	1.8%	N/A	1.3%
Financial Performance		•	·	•	
Revenue (\$000)	\$2,071,828	\$2,321,082	\$2,495,164	\$2,740,674	\$30,863
Available fund balance (\$000)	\$706,773	\$819,293	\$911,248	\$936,202	\$6,158
Net unrestricted cash (\$000)	\$1,370,767	\$1,779,685	\$1,812,100	\$1,592,108	\$12,240
Available fund balance ratio (%)	34.1%	35.3%	36.5%	34.2%	26.7%
Liquidity ratio (%)	66.2%	76.7%	72.6%	58.1%	45.6%
Leverage					
Debt (\$000)	\$3,001,737	\$2,885,848	\$2,777,794	\$2,738,131	\$24,050
Adjusted net pension liabilities (\$000)	\$5,388,012	\$4,552,296	\$2,987,144	\$2,763,047	\$48,097
Adjusted net OPEB liabilities (\$000)	\$4,498	\$2,765	\$2,082	\$793	\$6,084
Other long-term liabilities (\$000)	\$345,667	\$384,855	\$470,010	\$453,345	\$1,652
Long-term liabilities ratio (%)	421.8%	337.2%	250.0%	217.3%	281.1%
Fixed costs			·		
Implied debt service (\$000)	\$204,012	\$210,541	\$201,547	\$192,961	\$1,633
Pension tread water contribution (\$000)	\$182,828	\$143,079	\$135,773	N/A	\$1,632
OPEB contributions (\$000)	\$115	\$107	\$127	\$141	\$235
Implied cost of other long-term liabilities (\$000)	\$19,166	\$24,245	\$26,878	\$32,650	\$91
Fixed-costs ratio (%)	19.6%	16.3%	14.6%	13.2%	15.5%

For definitions of the metrics in the table above please refer to the <u>US Cities and Counties Methodology</u> or see the Glossary in the Appendix below. Metrics represented as N/A indicate the data were not available at the time of publication. The medians come from our most recently published <u>US Cities and Counties Median Report</u>.

The real GDP annual growth metric cited above is for the Detroit-Warren-Dearborn, MI Metropolitan Statistical Area. Sources: US Census Bureau, Detroit (City of) MI's financial statements and Moody's Ratings, US Bureau of Economic Analysis

## **Profile**

The City of Detroit is the county seat of Wayne County (A1 stable), located in the southeastern region of Michigan's Lower Peninsula. The city is situated on the Detroit River, directly across from the city of Windsor, Ontario, Canada. According to the 2020 census, the city has a population of just under 640,000, making it one of the 30 largest cities in the US and the largest city in Michigan (Aa1 stable). About three-quarters of the city's revenue is for governmental activities and the remaining quarter is business-type activities, primarily water and sewer. The city emerged from bankruptcy in 2014.

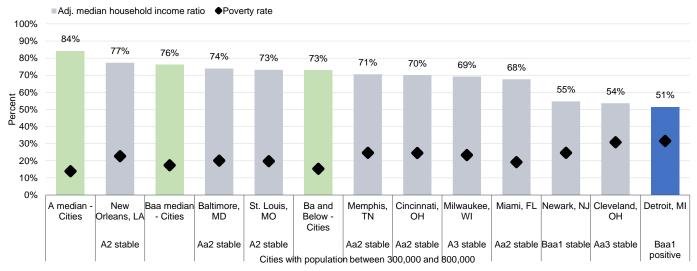
#### **Detailed credit considerations**

Economy: high poverty, long-term population decline and economic concentration remain challenges; recent tax base growth and ongoing development are bright spots

Detroit's economy will remain a comparative weakness because of its high poverty rate and very low full value per capita and adjusted MHI ratios (exhibit 3). Population decline and an elevated unemployment rate will also likely be long-term challenges.

Exhibit 3

Detroit's resident income ratio is the lowest compared to peer cities and poverty is high



Source: Moody's Ratings

Overall, Detroit's economy has improved in recent years and will continue to recover given preliminary tax base growth (exhibit 4), improved services, reduced blight and ongoing development. The city reports a 15% increase in residential property values in 2024, which will boost full value per capita and support fiscal 2026 property tax revenue. Current development projects include a \$2 billion expansion of Henry Ford Health, MI (A2 stable) and a Michigan State University health sciences research center, the University of Michigan Center for Innovation, which is a graduate school for engineering and robotics, a Major League Soccer stadium and major investments in new downtown hotels, retail, condos and apartments.

Exhibit 4

Detroit's tax base has grown significantly, bolstering full value per capita



Source: Moody's Rating, City of Detroit

The city is a regional employment center, which extends the reach of its income tax into its wealthier surrounding suburbs. Suburban commuters are a significant contributor of income tax revenue. The average wage rate of a job located in the city is roughly double the average wage rate for a resident, according to the <u>University of Michigan Research Seminar in Quantitative Economics (RSQE)</u>.

While financial technology, particularly <u>Rocket Mortgage</u>, <u>LLC</u>. (Ba1 stable), and healthcare are increasingly important industries for the city, the regional economy is still heavily reliant on the domestic auto sector. The "Big Three" automakers, <u>Ford Motor Company</u> (Ba1 stable), <u>General Motors Company</u> (Baa2 stable), <u>Stellantis N.V.</u> (Baa2 stable) are the three largest employers in the MSA, directly accounting for roughly 6% of the Detroit metropolitan statistical area (MSA) employment. They also support a wider ecosystem of

indirect jobs, such as small parts manufacturers. Stellantis is the only automaker in the city's top 10 employers, accounting for almost 5% of total city employment.

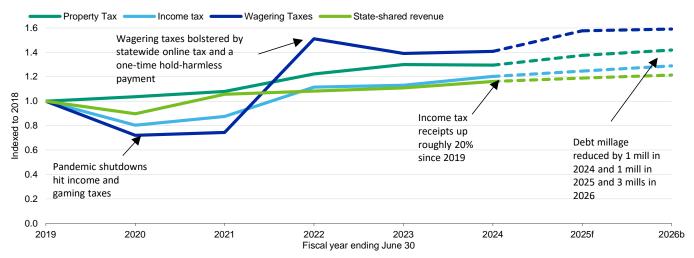
While tariffs and recent trade uncertainty are credit negative for the auto sector, it is too soon to know the impact on regional employment. The RSQE estimated a loss of roughly 13,000 direct and indirect job statewide over the next several years as a result of the tariffs in its May forecast for the state. But the region could also benefit over the longer-term if manufacturing were reshored. In June, GM announced it would invest about \$4 billion over the next two years in US manufacturing, including at an assembly plant in nearby Orion Township, which could bolster area employment.

# Financial operations: solid operating track record resulting in strong reserves compared to peers; growing revenue will help absorb spending demands

Detroit's available fund balance ratio will likely remain around 30%, because moderate revenue growth will offset expenditure pressures. Also, the city's budget management practices — including a multiyear forecasting and a sophisticated revenue-setting process — will provide it with tools to respond to possible adverse developments, such as an economic downturn.

Each of the city's key revenues – income, wagering and property taxes and state-shared revenue – have recovered above pre-pandemic levels and will likely continue to grow in fiscal 2025 and into fiscal 2026 assuming no major disruptions to area employment.

Exhibit 5
Each of the city's key revenues have recovered above pre-pandemic levels and will likely continue to grow in fiscal 2026



Source: Moody's Ratings, City of Detroit

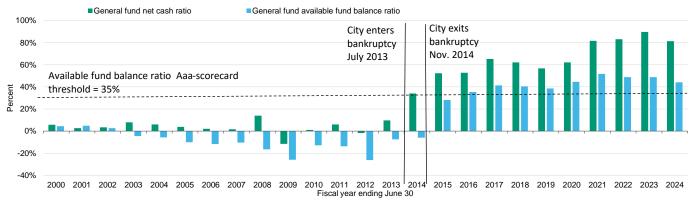
Recent revenue growth has provided space in the city's budget to accommodate rising costs, such as its actuarially determined pension contributions (ADC). Between 2018 and 2024, total city revenue grew by roughly \$562 million, net of \$272 million one-time federal aid in fiscal 2024, or enough to cover the entire fiscal 2026 contribution by over three times.

The city projects revenue growth of about \$102 million in fiscal 2026, or about 7% over the adopted fiscal 2025 general fund budget, enabling the city to meet ongoing spending demands and continued investment in city services, such as expanded bus service, homeless services, alley clean up and blight mitigation. The budget also includes \$30 million increase to the city's risk management fund and \$10 million for a discretionary, one-time "13th check" for retirees.

Projected fiscal 2025 general fund revenue is up roughly \$70 million compared to the adopted budget, based on year-to-date performance. The city plans to redirect a portion of that back into services and will end with a surplus of about \$19.6 million.

The city has a track record of solid general fund operations since it exited bankruptcy in November 2014 (see exhibit 5). The general fund is the city's main operating fund, accounting for half of total revenue and the bulk of the city's fund balance.

Exhibit 6
General fund balance has been consistently strong since the city exited bankruptcy in 2014



Source: Moody's Rating, City of Detroit

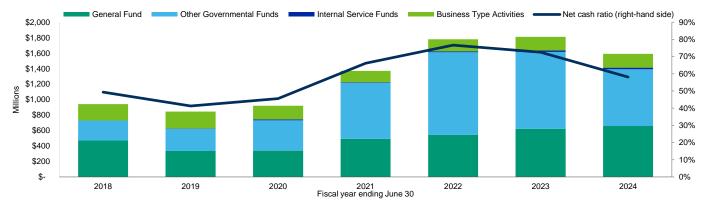
The city's available fund balance ratio is strong compared to peers. Also, the city received over \$800 million in federal pandemic aid, enabling one-time programmatic and capital investments. The city did not use any of the federal funds for revenue replacement and those funds are not included in the available fund balance ratio.

# Liquidity

The city's fiscal 2024 net cash ratio was strong compared to medians and solidly in line with peers. Cash was bolstered by roughly \$510 million of one-time federal aid held in other governmental funds that will be spent down over the next several years (exhibit 6). Without those funds, net cash would be about \$1.1 billion and the net cash ratio would be 39%.

Exhibit 7

Cash was bolstered by federal aid held in other governmental funds that will be spent down



Source: Moody's Ratings, City of Detroit

## Leverage: long-term liabilities ratio likely to remain lower than many peer cities

The city's total leverage ratio will remain between 200% and 350% and low compared to peers.

Governmental debt Business-type activities debt Adjusted net pension liabilities Adjusted net OPEB Other long-term liabilities Long-term liabilities ratio (right side) 450% \$10.0 \$9.0 400% \$8.0 350% \$7.0 300% \$6.0 250% \$5.0 200% \$4.0 150% \$3.0 100% \$2.0 \$1.0 50% \$0.0 0% 2018 2019 2020 2022 2023 2024 Fiscal year ending June 30

Exhibit 8

The city's long-term liabilities ratio is driven mainly by pensions and will likely remain below 350%

Source: Moody's Ratings, City of Detroit

The city's total leverage is roughly split between governmental and business-type activities. The bulk of the business-type activity debt is related to water and sewer contractual obligations to the Great Lakes Water Authority, MI (senior lien Aa3 stable). Detroit's water and sewer retail operations pay debt service on the city's allocated share of GLWA's debt and the payable revenue are pledged to GLWA's bonds.

#### Legal security

The city's rated GOULT bonds are full faith and credit general obligations backed by the city's pledge to levy property taxes without limitation as to rate or amount as authorized by voters.

A portion of Detroit's outstanding GO debt is additionally backed by distributable state aid (DSA, Aa2 enhanced ratings). The outstanding enhanced bonds benefit from a strong legal framework that allows the city to issue debt through the Michigan Finance Authority (MFA). Detroit has entered into an intercept agreement that obligates the state treasurer to directly deposit all authorized DSA payments to a third-party trustee to satisfy debt service requirements.

The city's \$87 million Michigan Transportation Fund Bonds, Series 2017 are backed by the city's Michigan Transportation Fund distributions. The bonds are structured to be drawn on predetermined dates. The bonds were issued by the MFA and sold as a private placement to JPMorgan Chase Bank, N.A. (long-term issuer rating Aa2 stable). Following an event of default the city would have to pay interest at a stepped up interest rate. Events of default are limited to nonpayment.

#### Debt structure

All of the city's debt is fixed rate. Amortization is somewhat slow, under half the city's general obligation debt retired in 10 years. The debt service schedule on the GO debt is declining, which will likely be at least partially filled in with additional debt in the future.

GOULT GOLT Revenue Percent of fiscal 2024 revenue \$180 7% \$160 \$140 \$120 Millions \$100 \$80 \$60 2% \$40 1%

Exhibit 9
Total debt service is low and declining over the next few years

Source: Moody's Ratings, City of Detroit

The city's growing tax base and declining debt service allowed the city to reduce its debt millage by three mills, from seven mills to four mills, in fiscal 2026.

2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 Fiscal year ending June 30

State aid provides ample coverage of debt service across all five liens of DSA bonds (exhibit 15). Distributions are comprised of a mix of constitutional and statutory payments. Constitutional payments are more reliable because they cannot be reduced by legislative action alone, though are subject to changes in state tax collections and the city's population. Constitutional payments will likely start to provide sum-sufficient coverage for the fifth lien bonds starting in fiscal 2024 because of declining debt service requirements. While statutory payments can and have been reduced, there is ample coverage to absorb moderate cuts and state payments are unlikely to be completely eliminated.

#### Debt-related derivatives

The city is not currently a party to any debt-related derivative agreements.

#### Pensions and OPEB

Adjusted net pension liabilities (ANPL) make up the bulk of the city's overall leverage. Detroit has two legacy pension plans: the General Retirement System (GRS) and the Police and Fire Retirement System (PFRS). Benefit accruals to the plans were halted in 2014 and all eligible employees were moved to hybrid pension plans. Detroit's other post-employment benefit (OPEB) healthcare obligations were largely eliminated in bankruptcy.

The city began making its ADC in fiscal 2024 after its pension contribution holiday ended. The city will gradually fit pension costs into its budget over several years using withdrawals from its Retiree Protection Fund (RPF). If pension investments underperform plan assumptions, the city would have to dedicate more of its budget to pension contributions and would likely deplete the RPF more rapidly. The fund held about \$465 million at the end of fiscal 2023. This reserve is restricted and not included in our available fund balance or net cash ratios.

The city recently settled a dispute with PRFS regarding the length of the plan's amortization. Both of the city's plans will now use a 30-year amortization, instead of the 20 years proposed by PFRS, and the city will accelerate contributions into the funds using a level-principal funding method. The city will also make quarterly contributions into the fund.

8

#### **ESG** considerations

#### Detroit (City of) MI's ESG credit impact score is CIS-2

Exhibit 10

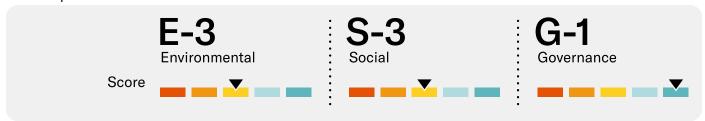
ESG credit impact score



Source: Moody's Ratings

Detroit's ESG Credit Impact Score is **CIS-2**, reflecting moderately negative exposure to environmental risks stemming from carbon transition, moderately negative exposure to social risks and positive governance profile.

Exhibit 11
ESG issuer profile scores



Source: Moody's Ratings

#### **Environmental**

The city's E issuer profile score is **E-3**. Detroit has exposure to the carbon transition risks faced by the auto manufacturers and related industrial companies that remain vital components of the local economy. The transition to electric vehicles (EVs) will likely result in substantially fewer workers over the longer term because EVs rely on fewer moving parts than their gasoline-powered counterparts, which significantly reduces the amount of labor required to manufacture them. The transition will likely take several decades to fully play out, in part because EV charging infrastructure is not yet built out. The city has neutral-to-low exposure to other environmental risks, including physical climate risk, natural resources management, and waste and pollution. Waste and pollution were historically more of a challenge for Detroit. But the city has undertaken major blight remediation efforts in recent years, demolishing thousands of vacant homes and dozens of large commercial structures, and it has moved to create cycling paths and other infrastructure, like the Joe Louis Greenway, to clean up illegal dumping grounds.

#### Social

The S issuer profile score is **S-3**, reflecting moderately negative considerations related to education, demographics, labor and income, and health and safety. Although somewhat improved, the city's median household income ratio is lower than the majority of its peers, poverty is high and the unemployment rate is elevated. While homicides have fallen recently, the city's violent crime rate overall is still high compared to peers. Housing considerations pose relatively low risks, the median rent in the city is lower than the metro area. Access to basic services risks have lessened in recent years and the city's emergency medical service (EMS) response time is reportedly in line with the national average.

#### Governance

Detroit's G issuer profile score is **G-1**, reflecting exceptional management practices compared to peers such as regular, semi-annual revenue-estimating conferences at which city and external officials agree on the resources available to appropriate. The city annually adopts a detailed four-year budget forecast, which it regularly meets or exceeds. Strong transparency and disclosure practices include regular reporting on year-to-date budget-to-actuals, long-range forecasts, and monthly cash flows. These practices help mitigate institutional constraints on revenue-raising ability and will help the city weather the adverse impacts of an economic downturn.

ESG Issuer Profile Scores and Credit Impact Scores for the rated entity/transaction are available on Moodys.com. In order to view the latest scores, please click <a href="here">here</a> to go to the landing page for the entity/transaction on MDC and view the ESG Scores section.

# Rating methodology and scorecard factors

The US Cities and Counties Methodology includes a scorecard, which summarizes the rating factors generally most important to city and county credit profiles. Because the scorecard is a summary, and may not include every consideration in the credit analysis for a specific issuer, a scorecard-indicated outcome may or may not map closely to the actual rating assigned.

The assigned rating is different from the scorecard-indicated rating because of forward-looking information and other considerations that are not in the scorecard. Other considerations include weaknesses related to regional concentration in auto manufacturing sector, a local economy and tax base that has proved to be less resilient during major economic downturns; and revenue structure that limits revenue-raising flexibility and heightens the city's vulnerability to economic downturns. Also considered is high overlapping debt burden stemming primarily from the school system. Forward-looking considerations include the likelihood that liquidity will decline from its current peak as federal aid is spent down, and that fund balance could erode over time given rising expenditure pressures and city's significant outstanding capital needs. Lastly, other considerations including the city's history of default stemming from its bankruptcy a decade ago.

Exhibit 12

Detroit (City of) MI

	Measure	Weight	Score
Economy			
Resident income ratio	51.4%	10.0%	Ва
Full value per capita	52,801	10.0%	Baa
Economic growth metric	-1.2%	10.0%	Α
Financial Performance			
Available fund balance ratio	34.2%	20.0%	Aa
Liquidity ratio	58.1%	10.0%	Aaa
Institutional Framework			
Institutional Framework	A	10.0%	Α
Leverage			
Long-term liabilities ratio	217.3%	20.0%	Α
Fixed-costs ratio	13.2%	10.0%	Aa
Notching factors			
No notchings applied			
Scorecard-Indicated Outcome			A1
Assigned Rating			Baa1

The Economic Growth metric cited above compares the five-year CAGR of real GDP for Detroit-Warren-Dearborn, MI Metropolitan Statistical Area to the five-year CAGR of real GDP for the US.

Sources: US Census Bureau, Detroit (City of) MI's financial statements and Moody's Ratings

U.S. Public Finance Moody's Ratings

# **Appendix**

Exhibit 13

## **Key Indicators Glossary**

	Definition	Typical Source*
Economy	Definition	Typicat Source
Resident income ratio	Median Household Income (MHI) for the city or county, adjusted for	MHI: US Census Bureau - American
Resident income ratio	Regional Price Parity (RPP), as a % of the US MHI	
	Regional Price Parity (RPP), as a % of the OS Mini	Community Survey 5-Year Estimates
- II I		RPP: US Bureau of Economic Analysis
Full value	Estimated market value of taxable property in the city or county	State repositories; audited financial
5 1.4		statements; continuing disclosures
Population	Population of the city or county	US Census Bureau - American Community
<del></del>		Survey 5-Year Estimates
Full value per capita	Full value / population	
Economic growth metric	Five year CAGR of real GDP for Metropolitan Statistical Area or	Real GDP: US Bureau of Economic Analysis
	county minus the five-year CAGR of real GDP for the US	
Financial performance		
Revenue	Sum of revenue from total governmental funds, operating and non-	Audited financial statements
	operating revenue from total business-type activities, and non-	
	operating revenue from internal services funds, excluding transfers	
	and one-time revenue, e.g., bond proceeds or capital contributions	
Available fund balance	Sum of all fund balances that are classified as unassigned, assigned o	r Audited financial statements
	committed in the total governmental funds, plus unrestricted current	
	assets minus current liabilities from the city's or county's business-	
	type activities and internal services funds	
Net unrestricted cash	Sum of unrestricted cash in governmental activities, business type	Audited financial statements
The difference cash	activities and internal services fund, net of short-term debt	Addited inidicial statements
Available fund balance ratio	Available fund balance (including net current assets from business-	
Available fully balance fallo	type activities and internal services funds) / Revenue	
Liquidity ratio	Net unrestricted cash / Revenue	
Liquidity ratio Leverage	Net unrestricted cash / Revenue	
	Outstanding long-term bonds and all other forms of long-term debt	Audited financial statements, official
Debt		
	across the governmental and business-type activities, including debt	statements
	of another entity for which it has provided a guarantee disclosed in	
	its financial statements	
Adjusted net pension liabilities (ANPL)	Total primary government's pension liabilities adjusted by Moody's to	Audited financial statements; Moody's
	standardize the discount rate used to compute the present value of	Ratings
	accrued benefits	
Adjusted net OPEB liabilities (ANOL)	Total primary government's net other post-employment benefit	Audited financial statements; Moody's
	(OPEB) liabilities adjusted by Moody's to standardize the discount	Ratings
	rate used to compute the present value of accrued benefits	
Other long-term liabilities (OLTL)	Miscellaneous long-term liabilities reported under the governmental	Audited financial statements
	and business-type activities entries	
Long-term liabilities ratio	Debt + ANPL + ANOL + OLTL / Revenue	
Fixed costs		
Implied debt service	Annual cost to amortize city or county's long-term debt over 20	Audited financial statements; official
	years with level payments	statements; Moody's Ratings
Pension tread water contribution	Pension contribution necessary to prevent reported unfunded	Audited financial statements; Moody's
Tension tread water contribution	pension liabilities from growing, year over year, in nominal dollars, if	
	all actuarial assumptions are met	natings
ODER contribution		Audited financial statements
OPEB contribution	City or county's actual contribution in a given period	
Implied cost of OLTL	Annual cost to amortize city or county's other long-term liabilities	Audited financial statements; Moody's
	over 20 years with level payments	Ratings
Fixed-costs ratio	Implied debt service + Pension tread water + OPEB contributions +	
	Implied cost of OLTL / Revenue	

<sup>\*</sup>Note: If typical data source is not available then alternative sources or proxy data may be considered. For more detailed definitions of the metrics listed above please refer to the US Cities and Counties Methodology . Source: Moody's Ratings

12

City of Detroit, MI: Update to analysis 27 June 2025

© 2025 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved. CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED OR OTHERWISE MADE AVAILABLE BY MOODY'S (COLLECTIVELY, "MATERIALS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER OPINIONS INCLUDED IN MOODY'S MATERIALS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S MATERIALS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES OR OTHERWISE MAKES AVAILABLE ITS MATERIALS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS, AND MATERIALS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS OR MATERIALS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT. FOR CLARITY, NO INFORMATION CONTAINED HEREIN MAY BE USED TO DEVELOP, IMPROVE, TRAIN OR RETRAIN ANY SOFTWARE PROGRAM OR DATABASE, INCLUDING, BUT NOT LIMITED TO, FOR ANY ARTIFICIAL INTELLIGENCE, MACHINE LEARNING OR NATURAL LANGUAGE PROCESSING SOFTWARE, ALGORITHM, METHODOLOGY AND/OR MODEL.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the credit rating process or in preparing its Materials.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY CREDIT RATING, ASSESSMENT, OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any credit rating, agreed to pay Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it. MCO and all MCO entities that issue ratings under the "Moody's Ratings" brand name ("Moody's Ratings"), also maintain policies and procedures to address the independence of Moody's Ratings' credit ratings and credit rating processes. Information regarding crudian affiliations that may exist between directors of MCO and rated entities, and between entities who hold credit ratings from Moody's Investors Service, Inc. and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at ir.moodys.com under the heading "Investor Relations — Corporate Governance — Charter and Governance Documents - Director and Shareholder Affiliation Policy."

Moody's SF Japan K.K., Moody's Local AR Agente de Calificación de Riesgo S.A., Moody's Local BR Agência de Classificação de Risco LTDA, Moody's Local MX S.A. de C.V, I.C.V., Moody's Local PE Clasificadora de Riesgo S.A., and Moody's Local PA Calificadora de Riesgo S.A. (collectively, the "Moody's Non-NRSRO CRAs") are all indirectly wholly-owned credit rating agency subsidiaries of MCO. None of the Moody's Non-NRSRO CRAs is a Nationally Recognized Statistical Rating Organization.

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors.

Additional terms for India only: Moody's credit ratings, Assessments, other opinions and Materials are not intended to be and shall not be relied upon or used by any users located in India in relation to securities listed or proposed to be listed on Indian stock exchanges.

Additional terms with respect to Second Party Opinions and Net Zero Assessments (as defined in Moody's Ratings Rating Symbols and Definitions): Please note that neither a Second Party Opinion ("SPO") nor a Net Zero Assessment ("NZA") is a "credit rating". The issuance of SPOs and NZAs is not a regulated activity in many jurisdictions, including Singapore. JAPAN: In Japan, development and provision of SPOs and NZAs fall under the category of "Ancillary Businesses", not "Credit Rating Business", and are not subject to the regulations applicable to "Credit Rating Business" under the Financial Instruments and Exchange Act of Japan and its relevant regulation. PRC: Any SPO: (1) does not constitute a PRC Green Bond Assessment as defined under any relevant PRC laws or regulations; (2) cannot be included in any registration statement, offering circular, prospectus or any other documents submitted to the PRC regulatory authorities or otherwise used to satisfy any PRC regulatory disclosure requirement; and (3) cannot be used within the PRC for any regulatory purpose or for any other purpose which is not permitted under relevant PRC laws or regulations. For the purposes of this disclaimer, "PRC" refers to the mainland of the People's Republic of China, excluding Hong Kong, Macau and Taiwan.

REPORT NUMBER

1443362

#### **CLIENT SERVICES**

 Americas
 1-212-553-1653

 Asia Pacific
 852-3551-3077

 Japan
 81-3-5408-4100

 EMEA
 44-20-7772-5454