Risk Analysis and Financial Risk Exposures - Risk Ratings

The following is the risk rating/probability methodology used for the purposes of the Financial Stabilization Reserve risk based review.

Likelihood: Given the current state/environment, how likely is this risk to occur over the next 3 years?

<u>#</u>	<u>Likelihood</u>	<u>Description</u>
1	Rare	May only occur in exceptional circumstances; no previous incidence
2	Unlikely	Could occur at some time; less than 25% chance of occurring
3	Possible	Might occur at some time; 25-50% chance of occurring
4	Likely	Will probably occur in most circumstances; 50-75% chance of occurring
5	Almost Certain	Can be expected to occur in most circumstances; more the 75% chance of occurring

Mitigation: Is this risk being mitigated?

- <u># Mitigated?</u>
- 1 Fully mitigated
- 2 Mostly mitigated
- 3 Partly mitigated
- 4 Low mitigating factor
- 5 Not mitigated

Risk Score: Likelihood x Mitigation

	Score		%	
Min	Max	Rating	Min	Max
1	6	Low	5%	25%
7	12	Medium	25%	50%
13	20	High	50%	75%
21	25	Extreme	75%	100%

The following table summarizes the risks faced by the City of Edmonton for which there are related financial exposures. Each of the risks identified in the table are discussed further in the more detailed Risk and Financial Exposure table.

	Sun	nmary of Risks a	and Financial Exposure						
	Maximum		Adjusted	Adjusted					
	Financial	Probability	Minimum	Maximum					
Risk	Exposure	Range	Exposure	Exposure					
EXTREME EVENTS									
Natural Disasters / Climate Change	\$130.0	Low	\$6.5	\$32.5					
Cybercrime	\$42.0	Medium	\$10.5	\$21.0					
REVENUE AND EXPENDITURE VOLATILITY									
Pandemic	\$150.0	Low	\$7.5	\$37.5					
Inflation, Fuel & Utilities Price Increases	\$23.0	Medium	\$5.8	\$11.5					
Revenue Volatility	\$20.0	Medium	\$5.0	\$10.0					
Franchise Fees	\$13.3	Medium	\$3.3	\$6.7					
Snow and Ice Control	\$15.0	Medium	\$3.8	\$7.5					
Road Maintenance	\$7.3	Medium	\$1.8	\$3.7					
Realty Tax Appeals & Adjustments	\$10.0	Medium	\$2.5	\$5.0					
Personnel	\$60.0	Medium	\$15.0	\$30.0					
Post-employment Benefit Costs	\$4.5	Medium	\$1.1	\$2.3					
Legal Claims, Project Risks and Uninsured Claim	\$43.0	Low	\$2.2	\$10.8					
Contaminated Sites - Risk Managed	\$160.8	Low	\$8.0	\$40.2					
Contaminated Sites - Other	\$3.0	Medium	\$0.8	\$1.5					
CAPITAL FUNDING & DELIVERY									
Grants	\$100.0	Low	\$5.0	\$25.0					
Investment Earnings	\$26.0	Medium	\$6.5	\$13.0					
Infrastructure	\$55.0	Medium	\$13.8	\$27.5					
LEVERAGE									
Credit Risk of Loans	\$26.0	Medium	\$6.5	\$13.0					
Deficit Reserves	\$148.2	Low	\$7.4	\$37.1					
Potential Balances:			\$112.9	\$335.6					
2023 Tax-Supported Operating Expenses (excludin	g non-cash amort	ization)*	\$2,67	76.3					
Percentage of Tax-Supported Operations Expenses	-	- ,	4.2%	12.5%					
Current minimum and target balances - %			5.0%	8.3%					
Calculated minimum and target balances - \$*			\$133.8	\$222.1					

* Based on 2023 City of Edmonton Consolidated Financial Statements

Risk Description		Current Mitigations	Maximum Financial Exposure	Likelihood	Mitigating Impact	Risk Score	Risk Assessment (Based on Legend Tab Formula)	Min	(exposur e x high
EXTREME EVENTS									,
Natural Disasters / Climate Chang	ge								
The impacts aspect of lift emergency Projected FI climate is pr impacts, inc. and intense extreme here and urban fi precipitation result in a v emergency access to re increasing r damage to 1 Expenditure Emergency necessary. J locally but a and the Loc its Emergen assistance t To quantify I Planning an projected th current clim communitie Edmonton's approximate (approximate (approximate financial exp provincial D	is of climate change and extremes of weather and climate events have the potential to affect every fe in Edmonton, from compromising the City's core services, to new service demands in areas of response and preparedness. According to the City's Vulnerability and Risk Assessment: Future Climate Hazards and Impacts for the City of Edmonton report (June 2018), "Edmonton's orojected to continue to change into the foreseeable future, leading to a wide range of potential cluding increased risk of flooding and drought, increased strain on water resources, more frequent a heat waves, more frequent wildfires and intense storms." The report indicates that drought and heat are the City's greatest climate change concerns, while freezing rain, high winds, heavy snow flooding are of next greatest concern. The slow-onset events such as shifting seasonal in patterns, temperature rise, land degradation, and habitat degradation and species loss can very significant impact in the long-run, but may not require immediate disaster prevention or r funds. However, sudden-onset events, such as flooding, wildfires, and tornadoes, may require eserve funds for rapid emergency response. These extreme weather events are happening with regularity and represent environmental exposures that are not covered by insurance, such as trees, river banks, culverts and roads. Snow storms are discussed further below under	The City of Edmonton's strategic approach to climate adaptation was first outlined in The Way We Green, Edmonton's Environmental Strategic Plan, which was approved by City Council in July 2011. The Way We Green established goals, objectives, and strategic actions to address climate change impacts. Since then, several reports have been prepared, including projections of climate data and extreme weather events for Edmonton, as well as the Climate Change Vulnerability and Risk Assessment for the City of Edmonton. Following the City's declaration of a Climate Emergency in August 2019, City Council adopted the Climate Resilient Policy C627 and strategies for climate change adaptation as well as mitigation. To better understand the costs associated with adaptation measures and the risks of inaction, the City completed two key studies: the Adaptation Costing Study for major assets in April 2022 (Stantec Consulting Ltd, 2022) and the Cost of Inaction: Economic Analysis of Edmonton's Climate Risks in May 2022 (All One Sky Foundation, 2022). EPCOR and the City are working actively on the Flood Mitigation Strategy to identify areas of Edmonton that have the highest risk of impact from flooding, engage the community to frame a plan around shared priorities, build a plan to slow, move, secure, predict and respond to flood waters in the community, and empower home and property owners to help flood-proof private property. In the past municipalities that have faced extreme weather events have received reimbursement from the federal and provincial governments through disaster recovery programs, and although it is not guaranteed, it is likely that support from other orders of government will continue to some extent. To manage the risks associated with the City's assets, the City carries insurance coverage for extreme weather events such as floods, fires, and tornadoes. However, certain items, such as damage to trees, riverbanks, culvers, and roads are subject to exclusions and relention/deuclibles. Therefo							
infrastructure and operations. Funds	ral disaster and climate change events. One of Edmonton's greatest sudden-onset impacts is flood Is may be required for emergency response and public assistance during and after an extreme wea al Government Disaster Relief Program, requiring property owners to cover at least 10 percent of th	ther event with up to 90 per cent of the costs associated with natural disasters	\$130.0	3	2	6	Low	\$6.5	5 \$3

Cybercrime									
		The Ottober employed a Comparate lefernation County Officer sizes 2040 who							
	Cyber crimes are crimes that involve a computer and a network and are used in the commission of a crime.	The City has employed a Corporate Information Security Officer since 2018 who							
	Cyber crime could also include privacy breach such as loss/release of physical sensitive records. The City of								
	Edmonton's risk register has identified cyber crimes as an extreme risk to the City. Local governments are a	cyber attacks. During that time the cyber security team has matured and grown and							
	target for cyber criminals and extortionists for monetary gain or political reasons. Local governments tend to	has implemented the processes and technologies to enhance cyber security defenses							
	be subject to greater public scrutiny with respect to cyber security and the use and protection of personal	in the City.							
	identifiable information.								
		This includes governance and risk management activities such as: the Cyber Security							
	A 2024 Cost of Data Breach Study by Ponemon Institute for IBM determined that the industry average total	Administrative Directive, and the supporting Standards and Specifications; the							
	cost of a breach is \$4.88 million USD (\$6.7 million CAD). The study also found that 48 per cent of all	delivery of cyber security awareness sessions and regular phishing tests with all staff;							
	information breaches included the personally identifiable information of customers; and 37 per cent of all	and the performance of cyber security risk assessments against all technology							
	breaches included the personally identifiable information of employees. The likelihood of a breach occurring	projects and initiatives.							
	is fairly high. Although the average loss is noted as \$6.7 million, a worst case scenario can result in								
	significant losses such as a recent loss of City of Hamilton with roughly \$8 million in incident response, that is								
	considered insurable losses, and additional \$34 million for the rebuilding of the enterprise systems and	assessment testing throughout the City; managed detection and response							
	associated mitigations. With a total impact of \$42 million.	technologies to detect, assess, mitigate and respond to attacks in real time and on a							
		24/7 basis; and an identity and access management program that enhances,							
		simplifies and manages access that all staff have to information resources within the							
		City.							
istariaal informa	tion regarding financial losses as a result of cybercrime is limited. Based on a 2024 industry study estimating the ave	The City also has cyber liability insurance subject to deductibles and exclusions.	\$42.0	3	.3	9	Medium	\$10.5	\$2
	million of costs to this date in regard to their recent ransomware attack. As such, a maximum financial risk exposure		942.0	3	3	9	Medium	\$10.5	φz
	EXPENDITURE VOLATILITY								
andemic									
	The City's revenues can be severely impacted by a pandemic and restrictions resulting from public health	In the event of a pandemic or significant event impacting City's revenues streams,							
	guidance. Pandemics also result in additional costs for municipalities, including enhanced cleaning and	Administration would advocate for financial support through other levels of							
	personal protective equipment. Further to this, economic downturns negatively impact municipal user fees as								
	a result of less spending per capita and/or decisions by City Council to strategically reduce user fees in order								
	to lessen the impact of the economic downturn on the citizens. The budget shortfall as a result of the	situation.							
	pandemic in 2020 was \$152.9 million, and in 2021 was \$152.0 million. This amount decreased to \$97 million								
	for 2022, however the long-term effects of the pandemic continue to impact some industries, such as public								
	transportation. The largest impacted areas from a long-term standpoint have been Edmonton Transit								
	Systems. Studies from organizations such as Gavi - The Vaccine Alliance, show that there is about a 2								
	Systems. Studies from organizations such as Gavi - The Vaccine Alliance, show that there is about a 2 percent chance of another COVID-19-like pandemic occurring each year.								
	percent chance of another COVID-19-like pandemic occurring each year.								
	percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. Seve factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million		\$150.0	2	3	6	Low	\$7.5	\$3
	percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. by efactors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases	1.	\$150.0	2	3	6	Low	\$7.5	\$3
	percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. ove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed	\$150.0	2	3	6	Low	\$7.5	\$3
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	percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. we factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs.	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed	\$150.0	2	3	6	Low	\$7.5	\$3
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	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed	\$150.0	2	3	6	Low	\$7.5	\$.
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	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and 	 The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates. 	\$150.0	2	3	6	Low	\$7.5	\$:
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	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is extimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and faility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$.
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. prefactors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is extimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of tuels annually. Over the 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$3
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of fuels annually. Over the past 13 years, the largest annual unfavourable hedged variance from budget was \$7.3 million in 2022 (gross 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$.
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and actility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of fuels annually. Over the past 13 years, the largest annual unfavourable hedged variance from budget was 7.3 million in 2022 (gross fuel costs were \$18.8 million unfavourable). This compares to the largest annual favourable hedged variance 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$.
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of fuels annually. Over the past 13 years, the largest annual unfavourable hedged variance from budget was \$7.3 million in 2022 (gross 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	<u>\$</u> 3
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of fuels annually. Over the past 13 years, the largest annual unfavourable hedged variance from budget waves \$18.8 million unfavourable). This compares to the largest annual favourable hedged variance of \$5 million in 2021 (gross fuel costs were \$0.9 million favourable). 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$3
	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. ove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is extimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of fuels annually. Over the past 13 years, the largest annual unfavourable hedged variance from budget was \$7.3 million in 2022 (gross fuel costs were \$18.8 million unfavourable). This compares to the largest annual favourable hedged variance of \$5 million in co21 (gross fuel costs were \$0.9 million favourable). 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$3
flation, Fuel &	 percent chance of another COVID-19-like pandemic occurring each year. While the probability of another pandemic happening in the short-term is low based on studies, the long-term impact of the pandemic on economic fluctuations is probable. pove factors, the City is estimating an exposure as a result of a pandemic and/or economic fluctuations at \$150 million Utilities Price Increases The City is exposed to fluctuations in non-personnel expenses, largely due to increases in inflation (materials contractors, consulting, etc.), fuel, and utility costs. Annual average MPI inflation from 2009 through 2023 was 2.1%. MPI inflation was 4.4% in 2022, more than double the 15-year historical average. MPI inflation is projected to average 2.1% in 2024. On August 14, 2024, Administration presented report FCS02478 Financial Stability: Addressing Budget and Growth Challenges to Executive Committee, which stated that the structural budget pressures arising from fuel, parts inflation and facility maintenance inflation to be approximately \$23 million in the current 2023-2026 operating budget. The City purchases fuel that is exposed to market price volatility which has increased since the pandemic and resulting global uncertainties. This results in fuel budgets that are difficult to predict and actual costs that may vary significantly from budget. The City purchases approximately 42 million litres of fuels annually. Over the past 13 years, the largest annual unfavourable hedged variance from budget waves \$18.8 million unfavourable). This compares to the largest annual favourable hedged variance of \$5 million in 2021 (gross fuel costs were \$0.9 million favourable). 	n. , The City includes estimates for increased inflation, fuel and utilities in its proposed budget based industry experts and best estimates.	\$150.0	2	3	6	Low	\$7.5	\$.

levenue Volatility Due to the economic and political environment, there is risk that the City receives lower than budgeted non-tax levy revenues. The City is able to mitigate the volatility demonstrated in revenue through methods such as increasing user fees, tax-levy, and advocacy from the government. While							
In 2023, Edmonton Transit Services experienced \$11.7 million less revenue than initially budgeted, and is forecasting \$13 million less than budgeted for 2024. This decrease is attributed to shifts in fare purchasing behaviour and related changes in travel patterns, including increased demand for discounted / subsidized fare products and hybrid work.							
Furthermore, in 2023, the Parks and Road Services branch saw \$6.8 million less revenue than initially budgeted for permit fee revenue, and is estimated \$6.0 million less than budget permit revenues in 2024. The							
decreased revenues are primarily from the On-Street Construction and Maintenance (OSCAM) area.							
ionsidering the revenue volatility experienced with transit fare revenues and permit fees (OSCAM), the maximum revenue exposure used for this analysis is approximately \$20 million.	\$20.0	3	3	9	Medium	\$5.0	\$10
ranchise Fees							
Historically the largest fluctuations in franchise fees have been experienced through the ATCO natural gas Departments have the ability to control spending to a certain extent and therefore franchise fee. Natural gas franchise fees are calculated based on a percentage of distribution revenue earned offset the reduced revenues with lower costs. by ATCO Gas for delivery and transmission of natural gas to customers within the municipality.							
The fluctuation in distribution revenue has two components, consumption and rates. The consumption is variable depending on the weather. When the weather is warmer, less natural gas is consumed and who demand decreases the franchise fee revenue experiences a corresponding decrease. There is also a seasonality factor in consumption as more natural gas is required in winter than in the summer. The revenue can also be impacted by delivery revenue rate changes implemented by ATCO. This was seen in 2018, when through the AUC to request approval to exceed this rate. On November 13, 2024 City factor is gas franchise fee rate of 17.65 percent for the electricity franchise fee rate.							
In the past 10 years, the City has experienced a maximum unfavourable variance for natural gas franchise fees of \$11.3 million in 2023, and a maximum favourable variance of \$6.1 million in 2020, and an average unfavourable budget variance of \$0.9 million over that same time period.							
On November 13, 2024 City Council approved a new franchise fee formula for the EPCOR electricity (power) franchise fee, based on a percentage of distribution revenue similar to the existing ATCO natural gas franchise fee. Inherently, the new electricity franchise fee revenue is subject to the same revenue fluctuation							
risks of consumption and rates. Based on historical fluctuations in electricity distribution revenues, there is							
potential for electricity franchise fees to be lower than planned by \$1 - \$2 million.							
he largest annual shortfall to date for the natural gas franchise fee was \$11.3 million in 2023. As a result of the new franchise fee formula for the electricity franchise fee, an additional amount of \$2 million has been stimated as a potential exposure for electricity franchise fee revenue volatility, for a total maximum exposure of \$13.3 million.	\$13.3	3	4	12	Medium	\$3.3	\$6
samate as a potential exposate or electricity manchise relevence volating, for a total maximum exposure or \$15.5 million. now and lee Control							
The City is also at risk for costs associated with blizzards and other severe winter storms. Snowfalls are highly unpredictable and actual costs can vary substantially from budget. Over the past 10 years (2013 - 2023), the Snow and Ice Control program has experienced variances from budget ranging from a deficit of \$20 million in 2014 to a surplus of \$26 million in 2016. While the largest deficit in the past 10 years was \$20 million in 2014 to a surplus of \$26 million in 2016, with the exception of a \$1 million unfavourable variance in 2020.							
istorical deficits in the Snow & Ice Control program are a good indicator of future financial impacts, given the highest deficit of \$20 million experienced in the last 10 years, there is a potential financial exposure of up to	\$15.0	3	4	12	Medium	\$3.8	\$7
20 million in any one year. With the budget increase for this program since 2011 (from \$47 million in 2011 to \$67 million in 2024) the financial exposure has been adjusted to \$15 million.							
The City of Edmonton maintains and cleans City roads all year round. City crews sweep sand, dirt and debris from city boulevards, and perform road maintenance work. Due to weather impacts (i.e. heavy snowfall resulting in more sand clearing required in the spring) and unanticipated road maintenance work there historically has been volatility in road maintenance expenses. Over the past ten years, the largest annual							
unfavourable variance from budget was \$7.3 million, with the greatest favourable variance being \$1.2 million, and the average variance being \$2.3 million unfavourable.							
ver the past 10 years the largest unfavourable budget variance related to road maintenance was \$7.3 million, therefore estimated the financial exposure at \$7.3 million.	\$7.3	3	3	9	Medium	\$1.8	\$3
ealty Tax Appeals & Adjustments							
Realty tax appeals and adjustments are municipal tax adjustments for the current year resulting from Assessment Review Board (ARB) decisions, assessment corrections and tax exemption status changes.							
Appeals and adjustments have a potentially large degree of fluctuation due to the unpredictability of the							
appeals process. In the last 10 years, losses as a percentage of revenue have averaged approximately 0.6 monitoring appeals and possible changes in exemption status; and							
per cent of total tax revenue; however, during periods of economic volatility loss rates can increase 2) annual budget increases - mitigated through regular review and adjustment as part significantly. This fluctuation is managed through careful planning and increased in budget as necessary.							
Over the past 10 years the largest annual unfavourable variance from budget was \$5.0 million in 2015. In Even with appeal volumes and results remaining the same, tax losses will increase							
Edmonton's current economic circumstances, it is possible that appeals may increase significantly owing to a each year simply because the tax levy has increased, which generally leads to the							
combination of real estate market volatility, economic constraints and higher property taxes; which could result in as much as a \$10 million unfavourable variance. Ver the last 10 years the largest unfavourable budget variance related to really tax appeals and adjustments was \$5.0 million (2015). Considering the economic constraints and higher property taxes it is possible that this	\$10.0	3	3	9	Medium	\$2.5	\$

Personnel									
A large portion of the City's personnel costs can be attributed to em		The City includes personnel cost increases in its 4 year budgets, including a							
City's priority is to reach a fair deal with each Union that supports de		reasonable amount for salary settlements based on analysis and estimates from the							
Edmontonians. Salary settlements and arbitrations can have a signi		City's labour negations group.							
increased risk when agreements are outstanding for multiple years, retroactively. The City includes estimated settlement costs for each		The City is active in addressing the health and wellness of employees and is							
negotiations can lead to discrepancies between these estimates an		proactive in identifying current or future potential areas of concern to help minimize							
changing economic conditions and other unforeseen factors. In 202		the risk of illnesses, injuries, and incidents. There are a variety of health and wellness							
budget variances of approximately \$44 million due to retro impacts		resources available for employees to help promote healthy living, including the mental							
		health aspect.							
Over the past few years, post pandemic, the City has experienced in	ncreased instances of overtime across								
many branches, primarily due to higher WCB claims, long term disa									
higher staffing due to increased demand for services in some areas									
Rescue Services are projecting unfavorable budget variances due t	o overtime of approximately \$14 million								
combined (ETS - \$8 million; Fire Rescue \$6 million).	<u> </u>								
Increased personnel costs due to higher than expected settlements and increased overtime Post-employment Benefit Costs	in recent years has had impacts as high as	\$500 million (approximately \$44 million retro payments and \$14 million overtime).	\$60.0	3	3	9	Medium	\$15.0	\$30.0
	mustion of honofite for ampleurose on	The City is active in addressing the health and wellness of employees and is							
The City has post-employment benefit costs which include the conti long-term disability, and the City's share of pensioners' eligible med		The City is active in addressing the health and wellness of employees and is proactive in identifying current or future potential areas of concern to help minimize							
liability is adjusted annually based on actuarial assumptions and cal		the risk of illnesses, injuries, and incidents. There are a variety of health and wellness							
There is no set annual budget assigned to post employment benefit		resources available for employees to help promote healthy living, including the mental							
unfavourable variance was \$4.5 million in 2016, with an average ch		health aspect.							
the inflationary costs on benefits as well as the increasing numbers of staff on disability. The Legal Claims, Project Risks and Uninsured claims	City's largest unfavourable exposure has b	veen up to \$4.5 million over the past 10 years.							
The City faces litigation cases each year and typically manages the	claims paid out within existing budgets.	The City mitigates the financial risk of legal claims and contractor disputes through							
Over the last five years, the City has paid out approximately \$22 mil		budgeting for potential losses in the operating budget, including contingencies for							
years the City has received more significant claims that are still uns		unforeseen costs in the capital project budgets, and through risk management							
The City continues to be involved in a number of larger and more as		strategies implemented in insurance policies, construction contracts, and ongoing							
The City continues to be involved in a number of larger and more con City to greater financial risks. These risks could come in the form of		bolstering claims handling to mitigate the increase in injury and other third party and first party settlements.							
implications as a result of project challenges. To measure the City's		nist party settlements.							
project challenges and legal claims, 0.5 percent and 1 percent of the									
capital budgets respectively have been used to quantify the City's p									
operating expenditure budget is \$3,612.7 million and the annual ave									
\$2,238.4 million, which results in approximately \$18.1 million and \$2									
respectively, or \$40.5 million total potential exposure.									
The Risk Management program has identified additional financial ris	ak expective related to increase in								
frequency and severity of damages to City owned properties (e.g. fi									
injury settlements primarily due to a number of external factors such									
impacts of climate change, change in legal environment, recent cou									
as well as insurance market, higher exposures such as vandalism, t									
exposure is currently estimated at \$2.5 million.	,,,,								
Based on existing claims outstanding and the number of large comp	plex projects the City is involved with, a								
total financial risk exposure of \$43 million is estimated.									
Based on existing claims outstanding and the number of large complex projects the City is in	nvolved with, \$43 million is estimated financ	cial exposure for the City.	\$43.0	3	2	6	Low	\$2.2	\$10.8

ontaminated Sites									
	surplus lands held for resale. Should the City determine land is contaminated or becomes responsible for any con- contamination, the financial risk exposure may be significant and the City would need to recognize the estimated cost of the remediation. In order to mitigate this risk and manage the City's contaminated sites financial exposure, the City established the Contaminated Sites Management Program (CSMP). Although not	e estimated with an appropriate level of certainty, the City will attempt to incorporate e cost impacts into the operating and/or capital budget.							
	program. The number of sites evaluated by the program increases annually as the evaluation process of the over City's land continues.	he likelihood of regulators requiring the City to take significant additional actions ver and above the City's planned management is low. The City's contaminated sites anagement has more oversight than in the past with the implementation of the SMP, significantly mitigating the risk of this happening.							
	To date, 291 sites have been added to the CSMP for evaluation. Eighty-eight (88) sites are currently known to have contaminant concentrations exceeding guidelines and are the responsibility of the City.								
	A financial liability in the amount of \$21.5 million (2023) was recorded for 13 of these sites, some of these liabilities will be resolved in 2024. The estimated financial exposure of the 75-77 remaining sites is \$160.8 million.								
maximum potentia	al financial exposure for the City, related to contaminated sites as described above, is estimated to be \$160.8 million	n based on current information and records.	\$160.8	3	2	6	Low	\$8.0	
	Another type of contaminated sites exposure is within the category of "unexpected contamination". Historical If a practices that were considered acceptable in the past, but are now known to cause contamination or changes im to environmental legislation are examples of situations that may result in unexpected contamination requiring cost	npacts into the operating and/or capital budget. Where this is not possible, the added							
	remedial measures. Contractual obligations with the sale of a site can also lead to a liability to remediate the contamination. Finally, an unexpected spill could lead to a contaminated sites event and an unplanned expense. The maximum exposure that the City has experineed regarding these types of circumstances								
	since the implementation of the Contaminated Sites Management Plan is up \$3 million.					-			
	perience, the financial exposure related to unexpected site contamination is \$3 million.		\$3.0	3	3	9	Medium	\$0.8	
PITAL FUNDING Ints	& DELIVERY								
into		ome risk is mitigated by funding agreements that identify specific dollar amounts, .ch as Public Transit Infrastructure Fund and many federal grants.							
	approximately 38 per cent (\$3 billion) of the City's capital projects were dependent upon grants. An an unexpected reduction in capital grant funding / or grant funding not keeping pace with inflation may result in the City's need to reprioritize or to defer capital projects, and / or to take on additional debt. The primary risks	/hen funding is reduced unexpectedly, the City revisits the capital plan to re-prioritize hd/or delay projects not yet started, and potentially borrow to complete key projects accordance with the City's Debt Management Fiscal Policy.							
	1. reductions to capital grants in the annual federal and provincial budgets; gra 2. changes to grant funding cash flows by the federal or provincial governments; of it 3. changes in project costs due to inflation and other factors that grant programming and related funding characteristic characteristicharacteristic characteristic characteristic character	he City works diligently with other order of government to secure funding through ant funding contribution agreements. These documents formalize the requirements each party and funding amounts. However, other order of governments can make nanges to legislation to adjust amounts, as recently occurred with changes in MSI at LGFF.							
	4. late grant payments by the federal or provincial governments on the City's funding claims.								
	Past economic conditions have significantly impacted grant revenue received from the Province. During times of low oil prices, the Province has realized lower non-renewable resource revenue, resulting in a reduced amount of grant funding provided to the City. A reduction in capital funding requires the reprioritization of								
	capital projects, potentially resulting in deferring maintenance and replacement projects, increasing infrastructure deficits. In the recession of 2009-2010, capital grant funding was reduced by \$109 million.								
	From 2019 to 2023, the Alberta government reduced capital funding provided through the provincial Municipal Sustainability Initiative (MSI). Beginning in 2024, the Local Government Fiscal Framework (LGFF), which replaced MSI, provides capital funding to municipalities, but at levels below those prior to 2019.								
	Given the current and forecast provincial budget deficits along with the forecast continued low commodity prices into the medium-term, there is the possibility of further reductions in Provincial capital transfers to Edmonton over the next 10 years. For example, Budget 2024 has forecasted a reduction in LGFF funding over 2025 and 2026 (\$820 million in 2025-26 / \$808 million in 2026-27).								
	Also to note is that, currently, much of the funding over the next ten years (both federal and provincial) is specifically targeted for public transit, green initiatives, social infrastructure and housing. Constraints on grant funding make it challenging for the City to fund renewal and growth infrastructure that often does not fit within the funder's priority areas.								
	Moreover, neither federal or provincial funding programs take into account inflationary pressures or other project cost increases. In other words, project specific grants provide a set funding amount, as opposed to a contribution that provides a set percentage of project costs that would assist the City in dealing with external market pressures (e.g., inflation) and reduce the necessity to take on additional debt financing.								

vestment Earnings									
	Historically investment earnings have been significantly impacted by economic conditions. The most important factor of investment risk and return is asset mix; that is, the proportion of fixed income (bonds) to equities (stocks) within a portfolio. The City has established an asset allocation policy for each of its investment funds. The only City funds that have any allocation to equities are the Ed Tel Endowment Fund at 60 percent and the Balanced Fund at 30 percent. Over the last 10 years, the largest negative variance of investment earnings versus budget was \$24 million in 2022. If a similar event were to occur today, based on higher fund balances due to growth in assets and considering the same mix of assets, the financial impact could be up to \$26 million lower than budgeted investment earnings.	As per a budget strategy initiated in 2010, fluctuating revenue streams such as investment earnings have been redirected to fund capital in order to eliminate the impact of the volatility of investment earnings on the operating budget. The risk has shifted to capital where the City has more flexibility to manage the reduced funding by reprioritizing or deferring projects. However, shifting the risk to capital may compound funding challenges for deferred maintenance, infrastructure replacement and infrastructure growth, areas that already deal with other funding constraints. When capital funding (i.e. investment earnings) are reduced unexpectedly, the City revisits the capital plan to re-prioritize and/or delay projects not yet started, and potentially borrow to complete key projects in accordance with the City's Debt							
sed on historical info	rmation, the total financial exposure for investment earnings is estimated to be up to \$26 million.	Management Fiscal Policy.	\$26.0	3	3	9	Medium	\$6.5	\$1
frastructure			\$20.0			v		\$5.0	¢ re
	As infrastructure ages, its state and condition inevitably deteriorates, thus increasing its risk of failure. In most cases, infrastructure does not fail catastrophically, but gradually, allowing Administration to make decisions in advance of significant failures. Strategic investment in the renewal of infrastructure assets, helps to extend the life of the infrastructure, and helps to reduce the risk of failure, however, can not remove the risk completely. While Administration manages the risk of failure through strategic investment, outside influences, such as natural events, or third-party intervention could result in a significant, or catastrophic failure. The assets most at risk of failure due to outside influences are those assets already in a weakened state, or considered in poor or very poor condition. Approximately 10.5 per cent (\$3.6 billion) of the City's assets are currently in poor or very poor condition. The risk of aster failure is during in your or yong we have a great deal of judgement, however the likelihood of a significant failure occurring is very low. Therefore, if 1 - 2 percent of these assets experience failure, this would represent a potential financial exposure between \$36.4 - \$72.9 million, or an average of approximately \$45.4 million.								
	Historically the City has not experienced significant critical infrastructure failures where they were not already protected through insurance.								
	he City for immediate replacement of critical City infrastructure could be up to \$55 million.		\$55.0	3	3	9	Medium	\$13.8	\$27
EVERAGE									
	Over the years the City has borrowed on behalf of external entities or provided loans directly in order to support initiatives with an overall benefit to the community. Although there are agreements in place with these entities that require repayment in order to fund the related debt servicing payments or repay the loan, the City still bears the credit risk of these entities. For example, in the case where the City has borrowed on behalf of an external entity, if the entity was no longer able to repay the City for use of the debt proceeds, the City would need to repay the annual debt servicing amounts using the City's funds and build the debt servicing payments into its operating budget. This includes loans to HomeEd, Explore Edmonton, Fort Edmonton Management Company, Winspear, Edmonton Catholic School Board, and Edmonton Soccer Association. The annual amount of loan payments related external entities projected at December 31, 2023 is approximately \$4.3 million, excluding debt held by the City for Drainage infrastructure which is recoverable through a promissory note from EPCOR. Once the currently approved loans have been fully drawn the								
	The City is also providing bridge financing to the Blatchford Renewable Energy Utility in the amount of \$17 million. The City is also providing bridge financing to the Blatchford Renewable Energy Utility in the amount of \$17 million as at the end of December 31, 2023. If the utility is not able to be financially sustainable in the long term and secure required grant funding the loan may not be repaid back to the City.								
The maximum financial	exposure resulting from the inability in external entities to pay the City for debt borrowed on their behalf is estin	mated to be \$26 million (\$0.1 million related to external entities and \$17 million for the	\$26.0	3	3	9	Medium	\$6.5	\$13

ficit Reserves									
	The City has leveraged its working capital in order to proceed with priority projects in advance of project funding. Larger projects include the Downtown Arena, Quarters downtown redevelopment, Belvedere and brownfield site redevelopment. The use of working capital for these projects has been segregated and reported within the Downtown, Quarters, and Belvedere Community Revitalization Levy (CRL) Reserves, the Interim Financing Reserve and the Brownfield Redevelopment Reserve.	As a risk mitigation strategy in leveraging the City's working capital to advance corporate initiatives, it is Administration's position that negative reserves only be established if future funding to repay the use of City working capital has been identified at the time of creating the reserve. This is reflected in City Policy C217B – Reserve and Equity Accounts.							
	The CRL reserves will be repaid through future incremental property tax revenues within the community revitalization zones. As at December 31, 2023 these reserves had a combined accumulated deficit balance of \$46.2 million. Based on the annual CRL update provided to Executive Committee on March 20, 2024 (UPE0223 2024 Community Revitalization Levy Update - Downtown, the Quarters, Belvedere) all three CRL reserves are expected to end in deficit positions by the end of their CRL terms. The Capital City Downtown CRL reserve is expected to have a shortfall of \$75.9 million over the 20-year CRL term ending 2034. The Quarters CRL is expected to have a shortfall of \$12.9 million over the 20-year CRL term ending 2032. The Belvedere CRL is expected to have a shortfall of \$12.9 million over the 20-year CRL term ending 2032. The combined deficit balance at the end of the CRL terms is expected to be \$136.7 million.	The CRL areas are constantly monitored and with ongoing updates to revenue forecasts based on development activity and market conditions. Council has directed Administration to explore several options to extend the timeframe and/or boundaries for the existing CRL areas. This could add new catalyst projects to the plans and accelerate development in the CRL areas. Administration is currently analyzing the impacts of these potential changes. That being said, based on the most recent annual CRL update provided to Executive Committee on January 20, 2024, all three CRL reserves are expected to end in deficit balances by the end of the CRL term. Ongoing municipal tax revenues would likely be used to cover these shortfalls until the deficit reserves are repaid.							
	The Interim Financing reserve will be repaid through future contractual non-tax revenues. As at December 31, 2023, the reserve had a deficit balance of \$34.8 million mainly related to the use of working capital for the downtown arena on an interim basis. The deficit reserve balance peaked in 2019 at \$40.6 million. A prolonged economic slowdown could result in lower than expected contractual non-tax revenues (ticket surcharges and lease revenues). Assuming that 25 percent of the reserve balance in the peak year could not be offset with contractual non-tax revenues, the financial exposure to the City could be \$10.2 million.	The Interim Financing Reserve existing deficit is to be offset with dedicated non-tax revenue sources, some of which are guaranteed through contract. Any shortfall of these revenues sources would need to be addressed through alternate funding strategies in the long-term.							
	The Brownfield reserve will be repaid through future incremental municipal tax uplift from the redevelopment and remediation of Brownfield sites. As at December 31, 2023 this reserve had a deficit balance of \$2.0 million. The deficit forecast for this reserve is dependent on the number and dollar amount of new agreements for Phase III Brownfield sites. The reserve is projecting a deficit balance of \$5.2 million as at December 31, 2024. Slower economic conditions could result in lower than expected redevelopment and incremental property taxes from brownfield sites. Ultimately, if future revenue streams are not realized or conditions of the agreement are not met, payments are not made to the developer and hence repayment of the reserve is delayed.	Ultimately, if funding sources for deficit reserves were unable to offset existing deficit balances (i.e. use of City working capital), the City would use alternative long-term funding strategies to offset existing deficits, and limit the use of the FSR.							
a deficit balance	ected to have a combined deficit balance of \$136.7 million at the end of their terms. The Interim Financing Rese of \$5.2 million at the end of 2024. Assuming that budget funding sources for the Interim Financing Reserve (cor ve were not sufficient to fund 25 per cent of these deficit reserves, the financial exposure of the City could be ut	ntractual non-tax revenues) and the tax uplift required to repay the Brownfield	\$148.2	3	2	6	Low	\$7.4	\$