CAPITAL PROFILE REPORT

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2,013

PROFILE NAME: SEWER SYSTEM UPGRADING FUNDED

PROFILE CM-23-9703 PROFILE STAGE: Post Budget Approval

DEPARTMENT: Financial Services & Utilities - Utilities PROFILE TYPE: Composite

BRANCH: Sanitary Utility PROFILE MANAGER: Chris Ward

PROGRAM LEAD BRANCH MANAGER:

LEAD BRANCH: ESTIMATED START: January, 2015

BUDGET CYCLE: 2015-2018 ESTIMATED COMPLETION: December, 2018

Service Category: Utilities Major Initiative:

| GROWTH | RENEWAL | 100 | BUDGET REQUEST: -2,500

TOTAL PROFILE BUDGET:

PROFILE DESCRIPTION

This program will increase the capacity of the City's sewer systems and minimize capacity constraints. It aims to improve the level of service by reducing the impacts of large rainfall events, minimizing the risk of sewer backup and surface flooding in all the 255 mature neighbourhoods built prior to 1989. Project works include the design and construction of hydraulic upgrades in 2 - 4 neighbourhoods every year. The Sewer Upgrading Strategy comprises both proactive and reactive projects to address sewer capacity deficiencies. Proactive upgrades under the Sewer Upgrading Strategy may be implemented along with the Drainage Neighbourhood Renewal Program (DNRP) or the Flood Prevention Program which could reduce costs associated with excavation, repaving, mobilization/demobilization, etc. However, reactive upgrades will be implemented in neighborhoods that experience significant basement flooding following a severe rainfall event.

PROFILE BACKGROUND

The Sewer Upgrading Strategy is needed to address pipe capacity issues by upgrading the pipes from their current size to a larger size to increase the sanitary, storm and combined sewer level of service. The strategy aims to improve drainage sewer systems in all 255 neighbourhoods that were built prior to 1989, which were designed with no minor system. Flooding report data indicate on average 350 basement flooding incidents occur per year in pre-1989 neighborhoods. So far, 107 of these neighbourhoods have been assessed and 138 remaining neighbourhoods will need to be evaluated in the upcoming years.

The Sewer Upgrading Strategy will be complimentary to local upgrades the City undertakes in response to extreme flood events under the Flood Prevention Program, and may work in coordination with Drainage Neighbourhood Renewal. It will focus toward addressing sewer and drainage system deficiencies before flooding occurs, reducing the impacts of large rainfall events when they occur.

PROFILE JUSTIFICATION

Upgrading the capacity of existing facilities can help to ensure that an acceptable level of service is provided to drainage customers. Upgrades will reduce the occurrences of basement and street flooding which cause property damage and can be very costly and disturbing to residents. Upgrades will also improve the water quality to North Saskatchewan River. Stormwater quality has been identified as a significant source of some of the contaminants to the North Saskatchewan River. Control of these contaminants is a partial fulfillment of obligations to Alberta Environment.

STRATEGIC ALIGNMENT

The Sewer Upgrading Strategy aligns with "The Way We Live" as it reduces basement and surface flooding due to sewer capacity deficiencies. It will increase the level of service and reduce impact on environment and public health.

ALTERNATIVES CONSIDERED

An alternative is to do nothing. This will cause public dissatisfaction due to basement flooding, street flooding and property damage.

COST BENEFITS

The Strategy will have a positive impact on the operating budget due to the reduction in flooding occurrences. There will also be a reduction of maintenance activities for a period of time for the new sewer. The estimated average cost to upgrade each neighborhood is approximately \$5.3 million.

KEY RISKS & MITIGATING STRATEGY

The implementation of this strategy will increase sewer level of service and will reduce the risk of injury or damage to persons and property due to basement flooding, street flooding, or roadway subsidence.

RESOURCES

No new internal resources will be required by this program. However the Sewer Upgrading Strategy projects will require external resources for both the design and construction phases.

CONCLUSIONS AND RECOMMENDATIONS

The Sewer Upgrading Strategy is needed to address sewer capacity issues causing basement or surface flooding. In neighbourhoods built prior to 1989, sewer level of service is considered below current standards and therefore requires sewer upgrades.

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CHANGES TO APPROVED PROFILE

2016 Spring SCBA (CA#20): (2.2.7)

Defer to the next budget cycle (2019-2022) due to the need to re-evaluate neighbourhood implementation plan to coordinate better with other planned construction/priorities. Small improvements have been identified in various neighbourhoods and will be completed in 2016-2018.

2016 Fall SCBA (CA#40): (2.6) Transfer From CM-31-9703 Sewer System Upgrading to CM-23-9703 Sewer System Upgrading; in order to combine Storm to Sanitary to become one Business Area.

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PROFILE NAME: Sewer System Upgrading

FUNDED

PROFILE NUMBER: CM-23-9703 PROFILE TYPE: Composite

BRANCH: Sanitary Utility

CAPITAL BUDGET AND FUNDING SOURCES (000's)

		Prior Years	2017	2018	2019	2020	2021	2022	2023	2024	2025	Beyond 2025	Total
APPROVED BUDGET	Approved Budget Original Budget Approved 2015 Cap Carry Forward	1,455	6,010	6,190	-	-	-	-	-	-	-	-	13,655
	2016 Cap Council 2016 Cap Carry Forward	-603 -735	-4,207 735	-4,333	-	-	-	-	-		-		-9,14
APP	Current Approved Budget	118	2,538	1,858	-	-	-	-	-	-	-	-	4,513
	Approved Funding Sources Drainage Retained Earnings Self-Liquid. DebentSanitary	10 107	1,052 1,486	743 1,115	-				-	-	-	-	1,805
	Current Approved Funding Sources	118	2,538	1,858	-	-	-	-	-	-	-	-	4,513
	Budget Request		-1,250	-1,250	-	-	-	-	-	-	-	-	-2,50
BUDGET REQUEST	Revised Funding Sources (if approved) Drainage Retained Earnings Self-Liquid. DebentSanitary	-	-500 -750	-500	-	-	-	-	-	-	-	-	-1,00 -1,50
	Requested Funding Source	-	-1,250	-1,250	-	-	-	-	-	-	-	-	-2,500
	Revised Budget (if Approved)	118	1,288	608	-	-	-	-	-	-	-	-	2,013
REVISED BUDGET (IF APPROVED)	Requested Funding Source Drainage Retained Earnings Self-Liquid. DebentSanitary	10 107	552 736	243 365	-	-	-	-	-	-	-	-	80: 1,20
	Self-Liquid, Debelit,-Sallitary	107	130	305		_							1,20

CAPITAL BUDGET BY ACTIVITY TYPE (000's)

REVISED BUDGET (IF APPROVED)	Activity Type	Prior Years	2017	2018	2019	2020	2021	2022	2023	2024	2025	Beyond 2025	Total
	Construction	-735	735	-	-	-	-	-	-	-	-	-	-
	Design	852	553	608	-	-	-	-	-	-	-	-	2,013
	Total	118	1,288	608	-	-	-	-	-	-	-	-	2,013

OPERATING IMPACT OF CAPITAL

Type of Impact:

Branch:		Ехр	Net	FTE	Rev	Ехр	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE
Total Operating Impact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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