

## Service Level for Street Cleaning and Sweeping

### Scope

Service Level (SL) documents are prepared to allow citizens of the City of Saskatoon (City) to review and understand the services *currently* provided. This document includes activities completed under the Street Cleaning and Sweeping service line. This service may be completed by various divisions in the City.

### Service Overview: what we do

The Street Cleaning and Sweeping service line funds two programs: Street Cleaning and Sweeping as well as Dust Palliation.

The City's annual Street Cleaning and Sweeping program focuses on improving citizen mobility for all modes of transportation, preserving air and water quality, maintaining surface drainage integrity, as well as improving aesthetics of City streets and adjacent infrastructure by removing sand and debris. The program provides sand and debris removal starting in April and city-wide sweeping service from May to June. Repeat sweeping service is provided to high use areas including high traffic streets and high density business districts from May to September. In October, the program focuses on sweeping areas at highest risk for spring flooding.

The City's Dust Palliation program focuses on managing air quality issues for properties within the city limits that are near high traffic gravel roads. The program applies a dust suppressant material to graded gravel roads in early summer; if needed a second application is done in the fall.

### Purpose: why we do it

The City's Annual Street Cleaning and Sweeping program is provided to improve the quality of life of citizens, meet diverse transportation needs, and reduce environmental impacts.



Programs within Service Line	Service Attributes and Customer Values	Service Level Outcomes	Customer Performance Measures
<b>Spring Debris Removal</b>	Responsiveness, Efficiency, Environmental Responsibility, Safety	Major debris is removed from high traffic streets, medians, and park frontages to reduce debris entering the storm water system, to improve air quality, and to improve traction by removing loose material.	Pick up at least 25% of winter operations debris.  Complete program prior to the end of May.
<b>Comprehensive Street Sweep</b>	Quality, Safety, Aesthetics	Curb-to-curb sweeping of residential streets.	Complete program prior to the end of June.  Relocate and fine less than 4,000 vehicles per year.  No-Parking signs posted no less than 36 hours in advance of sweep.  Vehicle locations available within Find My Vehicle App within 5 minutes of relocation.
<b>Housekeeping</b>	Responsiveness, Accessibility, Aesthetics, Quality of Life, Economic Prosperity, Safety	Routine debris removal for high traffic streets and high density business areas to improve cleanliness and minimize dust in high use areas  Debris removal for special events and emergencies.	Remove debris from high traffic driving lanes once per month from May to September.  Remove debris from Business Improvement Districts once per month from June to September.
<b>Comprehensive Street Cleaning for Drainage Improvement</b>	Quality, Fiscal Responsibility, Safety	Curb-to-curb sweeping of high flood risk and heavy tree canopy areas to improve spring drainage.	No-Parking signs posted no less than 36 hours in advance of sweep.  Relocate and fine less than 1,000 vehicles per year.  Vehicle locations available within Find My Vehicle App within 5 minutes of relocation.
<b>Dust Palliation</b>	Responsiveness, Safety, Quality of Life	Strategic application of dust suppressant on high traffic gravel roads within the city limits to limit the negative impact to air quality.	Dust suppressant applied on rural roads prior to the end of July.

**Resource Allocation: what does it cost**

All costing information presented is estimated based on available data.

Service Line	Programs	2017 Budgeted Cost to Deliver Service	2017 Estimated Actual Cost to Deliver Service	2017 Estimated Variance
<b>Street Cleaning and Sweeping</b>	Spring Debris Removal, Comprehensive Street Sweep, Housekeeping*	\$3,640,000	\$4,250,000	\$610,000
	Dust Palliation	\$125,000	\$125,000	\$0

\* The Comprehensive Street Cleaning for Drainage Improvement program is not funded through the Street Cleaning and Sweeping Service Line and as such is not included above. This program is funded through the Storm Water Management Utility Service Line.

Program	Cost per Program	Cost per Unit
<b>Spring Debris Removal</b> <i>Unit: # kms (= 670 kms)</i>	\$1,200,000	\$1,800 per kilometre
<b>Comprehensive Street Sweep</b> <i>Unit: # square metres (= 17 M sq. m.)</i>	\$2,400,000	\$0.14 per square metre
<b>Housekeeping</b>	Rotating Business Improvement District Sweeps \$225,000 <i>Unit: # square metres (= 2 M sq. m.)</i>	\$0.11 per square metre
	Rotating Priority Street Sweeps \$410,000 <i>Unit: # kms (= 810 kms)</i>	\$500 per kilometre
<b>Comprehensive Street Cleaning for Drainage Improvement</b> <i>Unit: # neighborhoods (= 9 neighborhoods)</i>	\$275,000	\$35,600 per neighborhood
<b>Dust Palliation</b> <i>Unit: # square metres (= 80 K sq. m.)</i>	\$125,000	\$1.60 per square metre

### Financial Assumptions

- The total cost to provide the Street Cleaning and Sweeping Program in future years will be similar to that in 2014, 2015, and 2016, because the service level being provided is similar.
- Increases in the total cost to deliver the program occur due to the cost of inflation and additional inventory growth.
- Growth in inventory is generally one to two years behind, as new roadway maintenance does not immediately become the responsibility of Roadways and Operations in developing neighbourhoods. Sweeping in developing neighbourhoods is the responsibility of the developer.

### Supporting Information



### Constraints

Risk factors and variances that impact the ability to deliver the service include:

- Weather,
- The amount of debris on roadways, and
- Hauling and disposal fees of debris.

Additionally, discontinuing the current service level may increase water and sewer maintenance costs due to higher levels of debris entering the storm sewer system.

### Supporting References

- Anti-dumping Bylaw No. 5713