

Operations Committee

Winter Control/Summer Program Update

June 3rd, 2019





























































































Presented by:

Randy Halverson

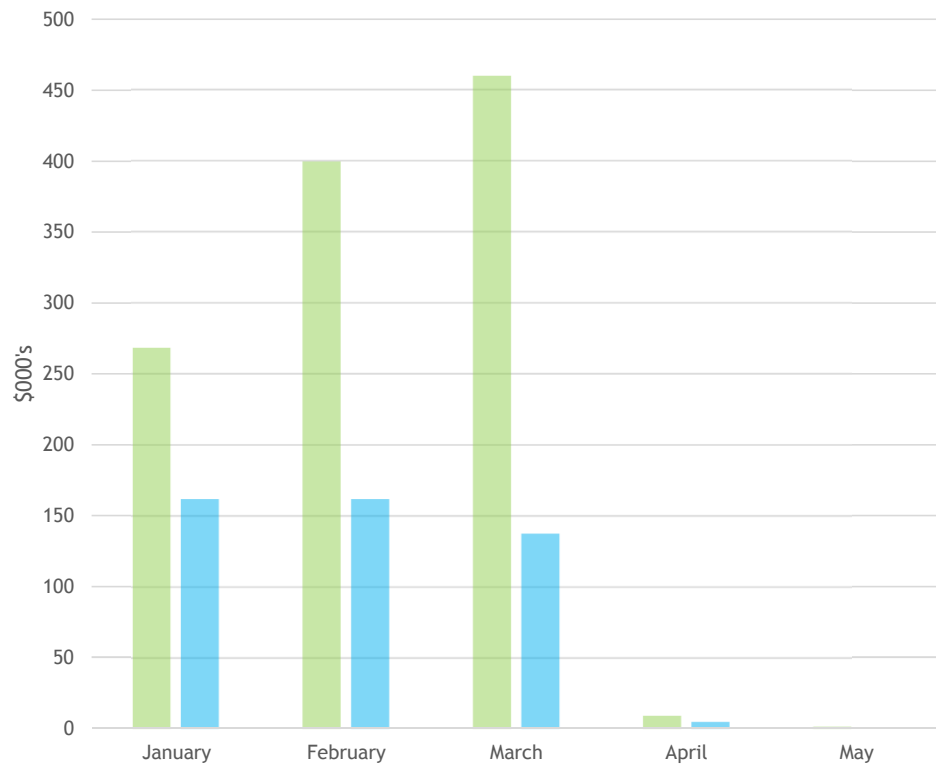
Linear Infrastructure Services, Director



Summer Program - Service Delivery Schedule

Category		Major Activities	May.	Jun.	Jul.	Aug.	Sep.	Oct.
Spring Clean Up		Street Sweeping Catchbasin Cleaning						
Surface Maintenance		Asphalt Patching Gravel Patching Gravel Grading						
		Gravel Resurfacing						
		Dust Control						
		Intersection Sweeping						
Roadside Maintenance		Brushing						
		Grass Cutting						
Curb and Sidewalk Maintenance		Curb Repairs Sidewalk Repairs						
Curb and Sidewalk Maintenance		Road/Dwy Culverts						
		Ditching						
		Bridge Maintenance						
Traffic and Safety		Line Painting Traffic Signs						
		Guide Rail Repairs						
Forestry		Tree Pruning Tree Removals						
		Tree Planting						

Snow Plowing | Sanding | Salting



Challenges

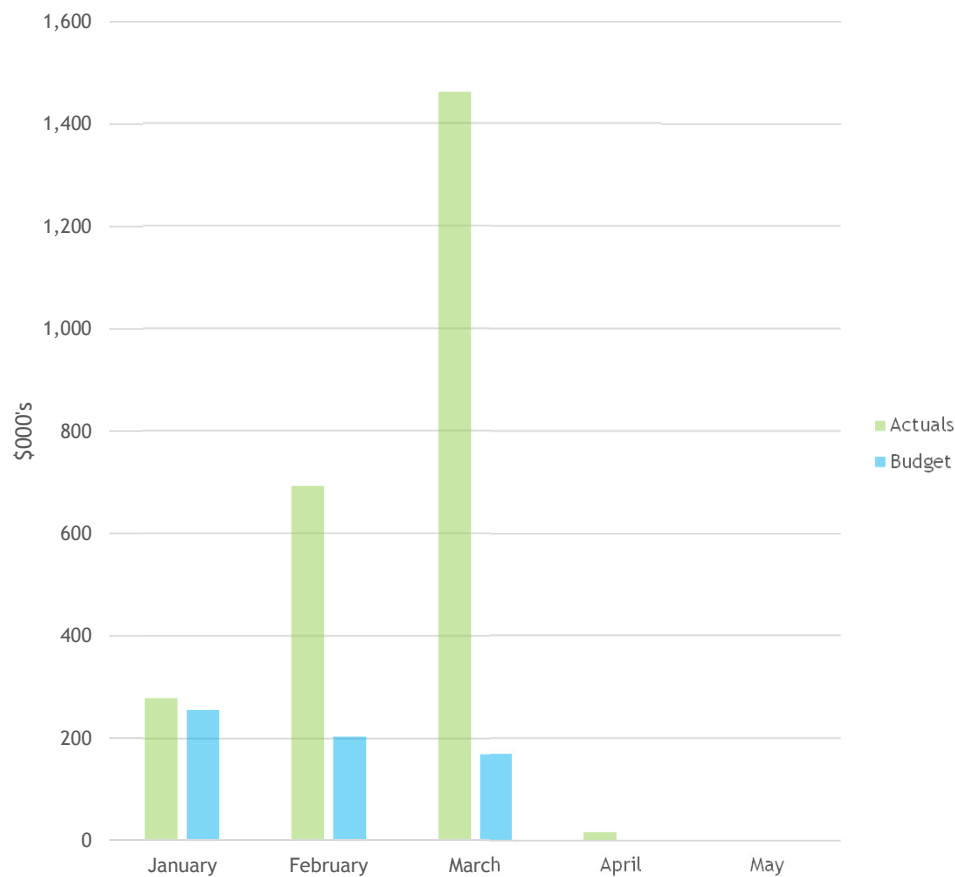
- Increase in material usage
- Increase in contract services

7
freezing rain
events

10
general
call outs



Snow Removal

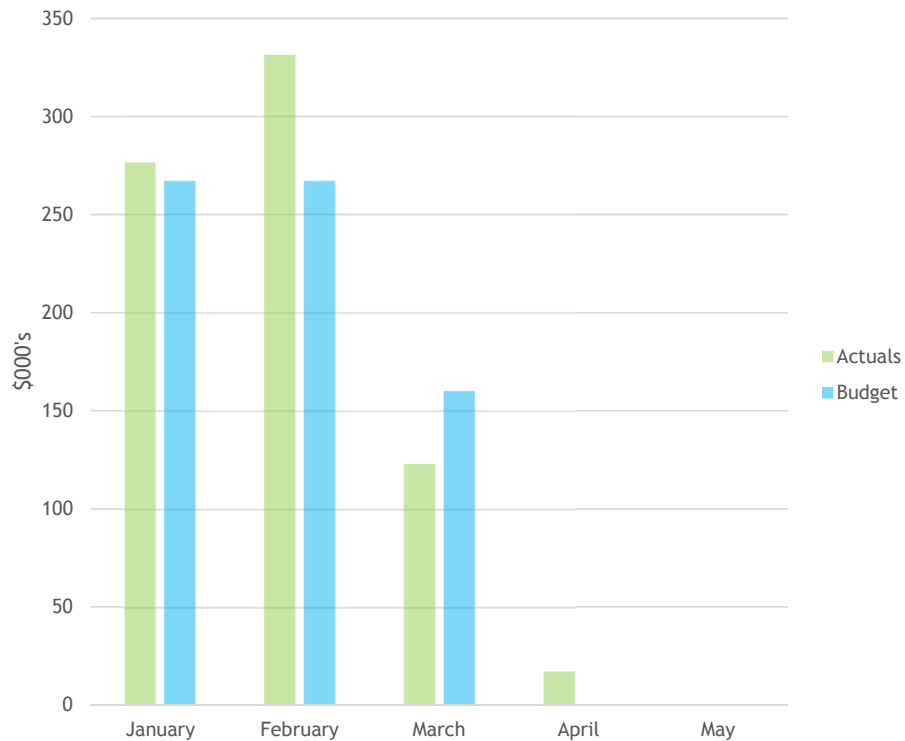


Challenges

- Snow accumulation
- Increase in contract services
- Increase in labour hours



Sidewalk Maintenance

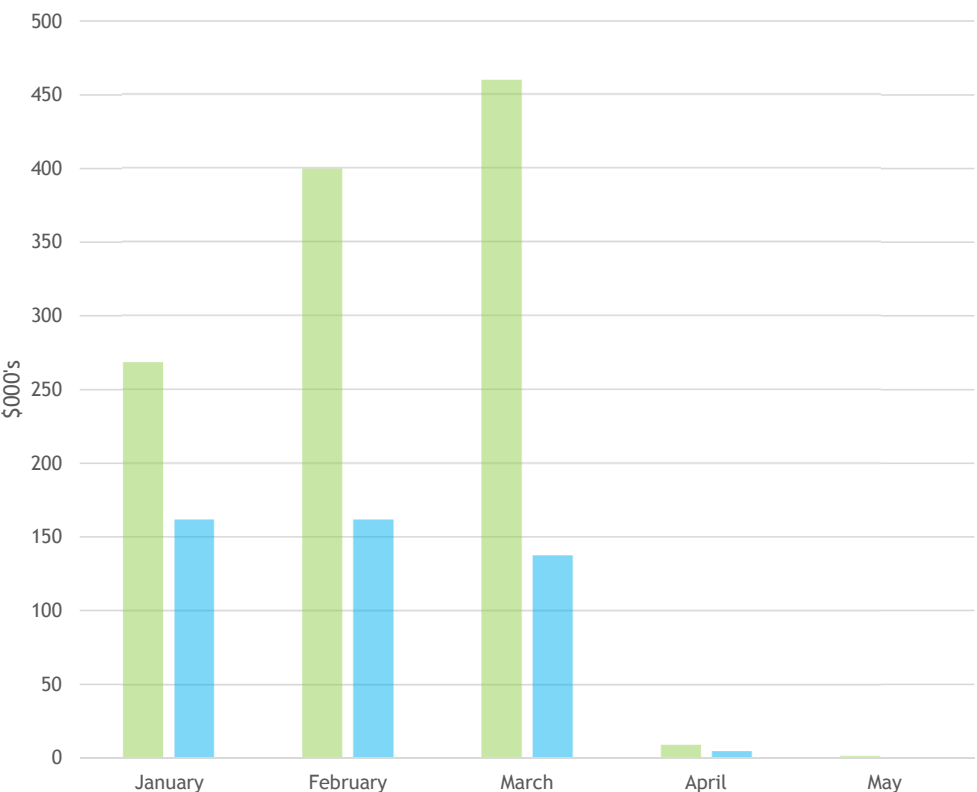


Challenges

- Snow accumulation
- Slight increase in material
- Slight increase in plowing



Snow Plowing - Graders | Loaders | 4x4s



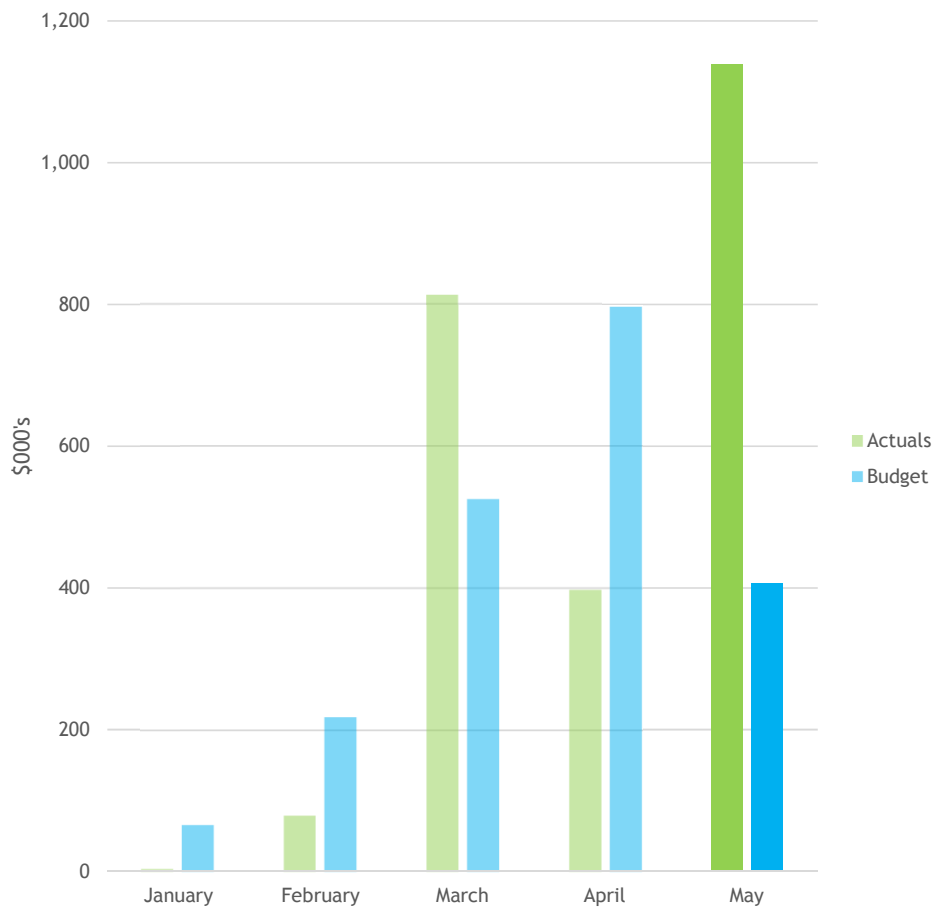
Challenges

- Snow accumulation
- Increase snowpack on roads/sidewalks

Grading
(ice blading)
can sometimes
take several
passes

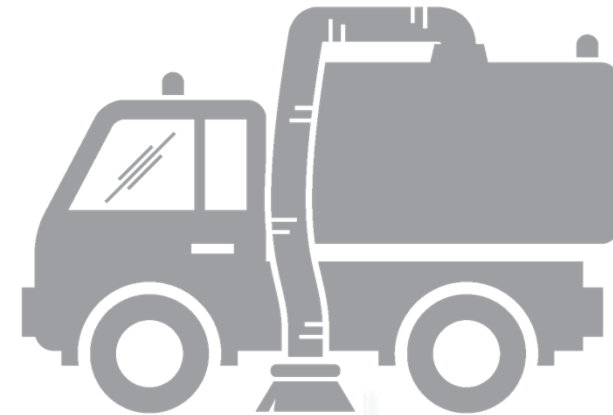


Winter Ditching | Spring Cleanup

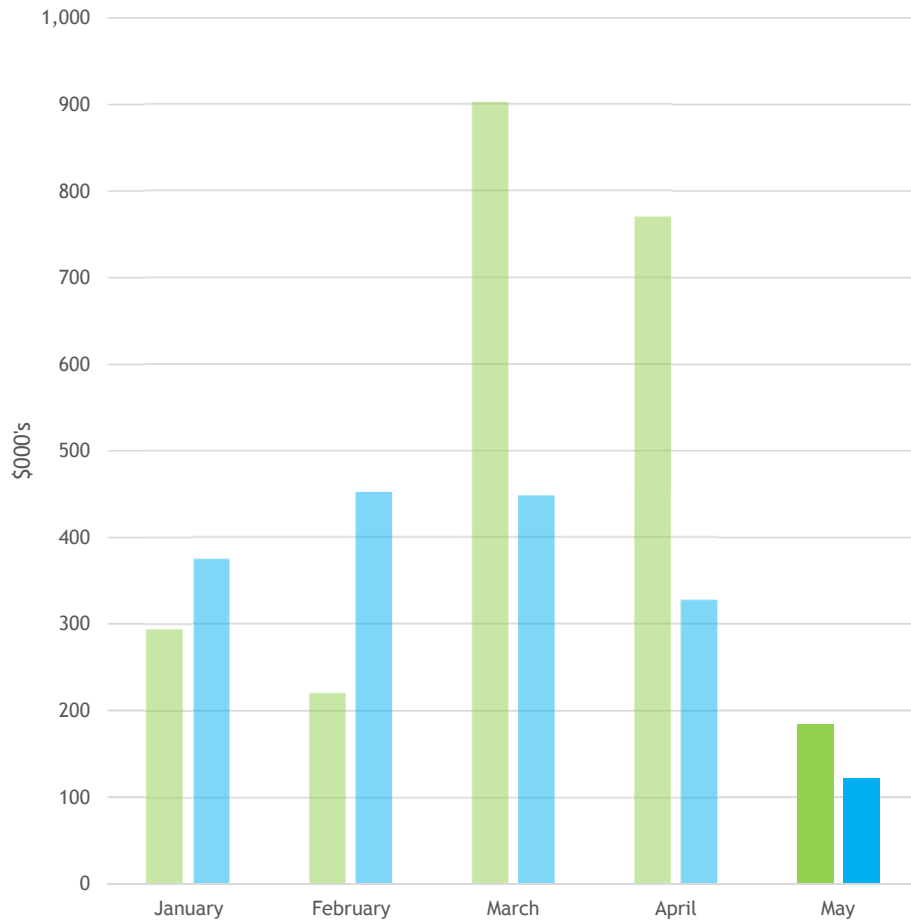


Challenges

- Snow accumulation increased the melt
- Labour intensive



Miscellaneous Winter Maintenance



Challenges

- Age of infrastructure
- Freeze-thaw cycles
- Increase use of contract services

3,375 tonnes of asphalt used to date, which converts to **84,375** potholes filled

City staff fill about **55,000** potholes annually



Street Sweeping

- Fully underway across all parts of the City
- Most major roads and sidewalks have been completed
- Regular schedule updates



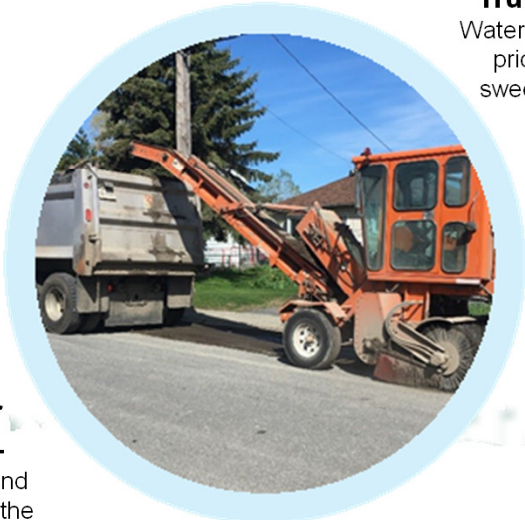
Water Truck –
Water placed prior to sweeping



Loader Curb Machine –
Moves the sand a few feet from the curb gutter to be picked up



Vacuum Sweeper–
Final clean up

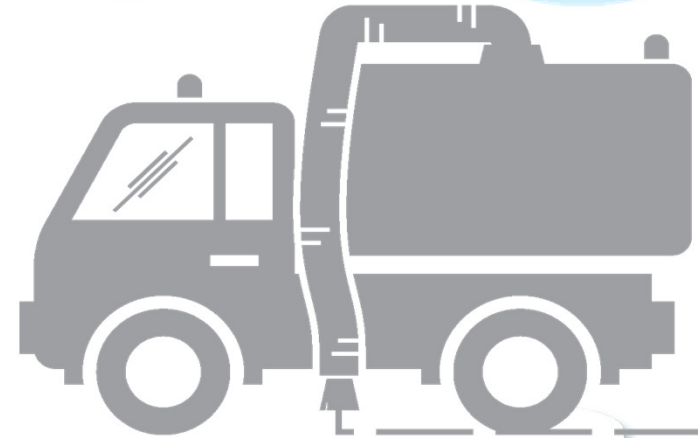


Broce Conveyor Sweeper–
Picks up the sand and places into the Dump Truck



Line Painting

- Two crews
- Lane demarcation and special symbols
- operates spring/summer/fall
- 2,100 kms of lane demarcation
- 79,000 litres of paint used

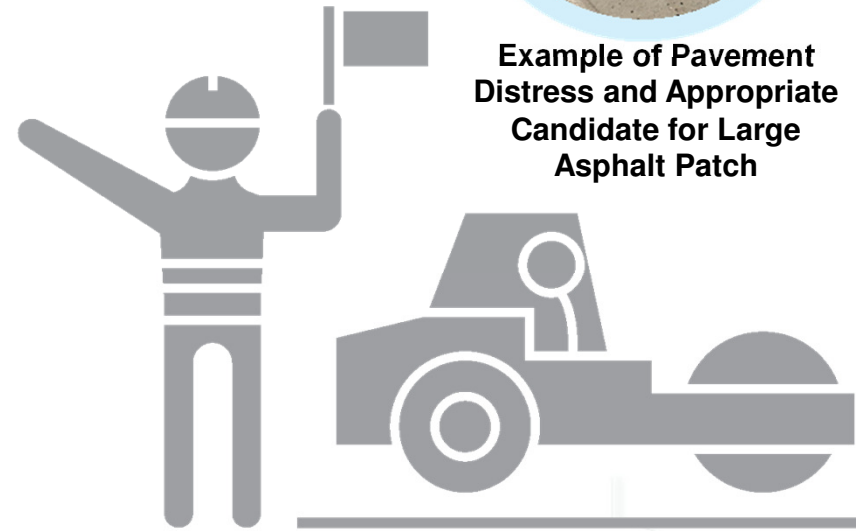


Large Asphalt Patches

- Begins at the end of May and will be completed in the fall
- Focus will be on major roads
- There will be night work and daytime traffic disruptions
- Regular traffic updates will be provided
- Approximately 125,000 sq.m. of asphalt patches to be completed
- Equals 8x the normal annual allocation.



Example of Pavement Distress and Appropriate Candidate for Large Asphalt Patch



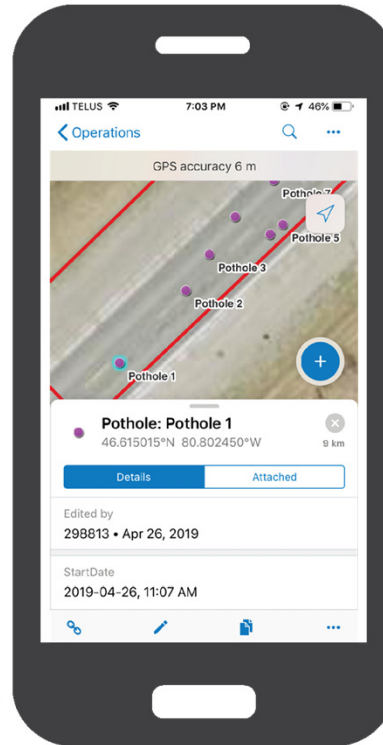
Pothole Repair Study

Aerial View of Study Area

- Inspections are completed regularly
- Photos and data are georeferenced at each inspection
- Staff is actively monitoring the performance of the repairs



App



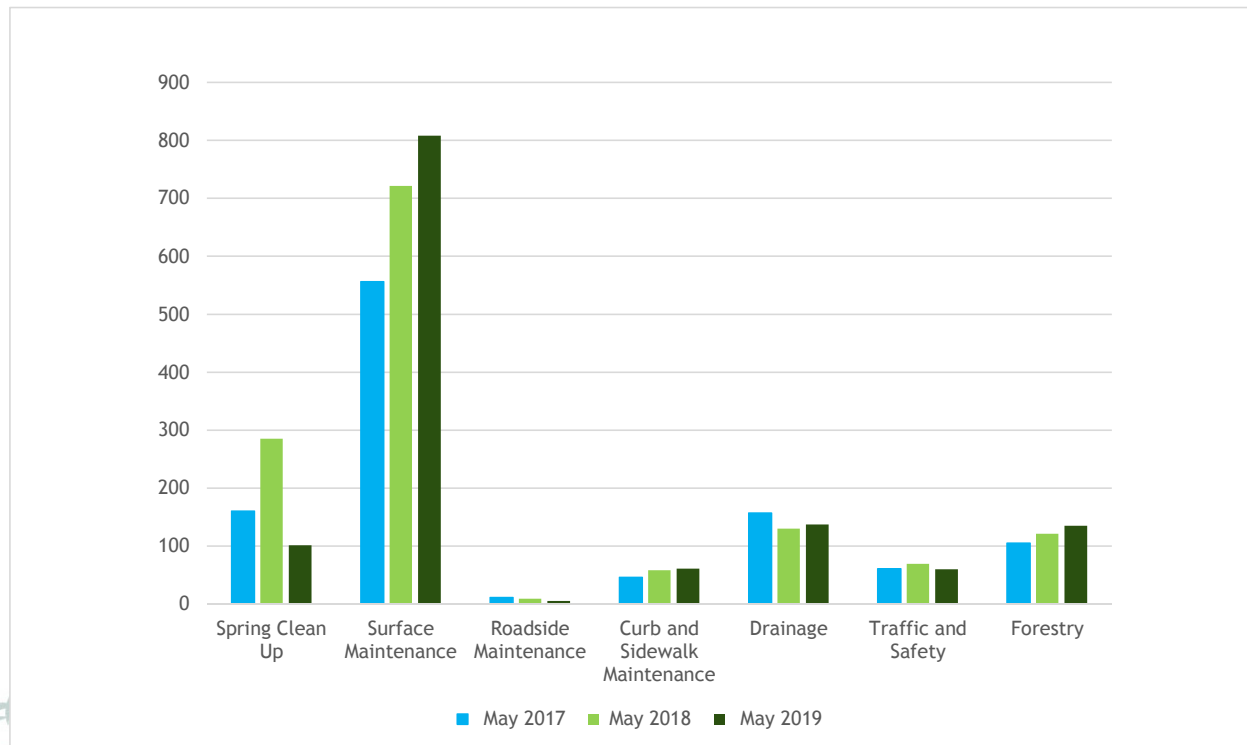
Before



After

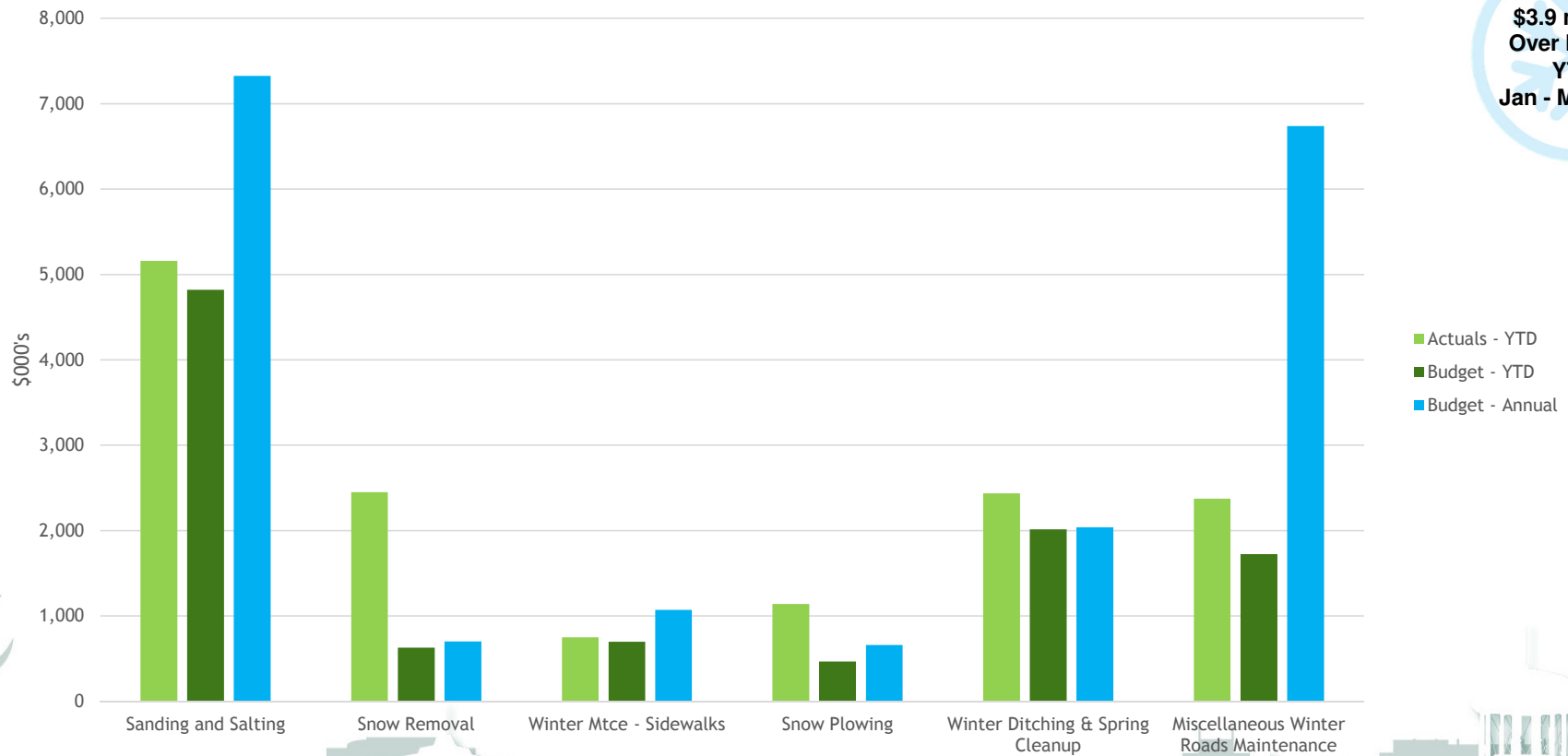


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Winter Control Summary

**\$3.9 million
Over budget
YTD
Jan - May 2019**





Questions?

