



Vision

To be a leader in delivering and managing safe, functional municipal transportation and storm water infrastructure



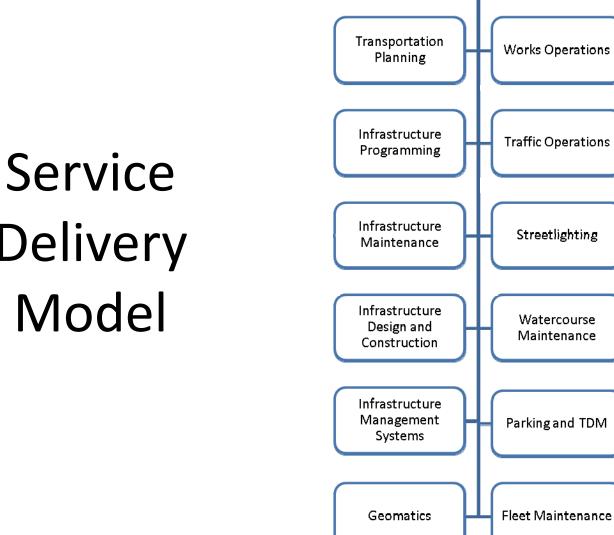
MISSISSAUGA Leading today for tomorrow

Mission

 To plan, develop, construct and maintain a multi-modal transportation system which efficiently and safely moves people and goods, respects the environment, supports the development of Mississauga as a 21st Century city and serves the municipality's social, economic and physical needs

 To plan, develop, construct and maintain a storm water management system which safeguards public and private infrastructure and property from erosion and flooding and enhances water quality

Delivery Model



Roads, Storm Drainage and Watercourses



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Achievements

- 2010 Ontario Public Works Association Project of the Year Over \$10 Million – Burnhamthorpe Road West Bridges over the Mullet Creek & Credit River
- 2010 Smart Commute Regional and Mississauga Employer of the Year
- 2010 North American Salt Institute Award (New Facility)
- 2009 Canadian Public Works Association National Public Works Week (Metro Centre Award)
- 2009 North American Salt Institute Award (Continuity of Good Practice for Salt Storage)

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Achievements

Over last 2 years:

- 103 km of roads resurfaced
- 7000 metres of noise barriers replaced
- 30 km of new sidewalks and trails installed
- Cycling Master Plan
- Square One Drive extension EA
- Burnhamthorpe Road EA east of Arista Way
- Elm Drive design for low impact development
- Living Wall pilot project

Opportunities and Challenges

- Aging infrastructure
- Becoming a mature, urbanized City
- Growth in municipalities to the north and west
- Increasing demand for multi-modal transportation
- Pursuit of higher order transit
- Climate change and environmental accountability



Current Service Levels

Average Road Network Condition - Maintain the road network at an average Overall Condition Index of 70, or "Good" rating

Infrastructure Programming - Develop appropriate ten year Capital Budget in accordance with lifecycle asset management practices and meet budget preparation and construction timelines

Capital Construction - Adhere to all provincial standards and codes for construction and safety

Customer Service - Respond to all emergency related service requests as soon as practical; investigate all non-emergency service requests within three days and respond to them within ten days; process permit applications within three days and deliver other counter services and products

Development Applications - Review and process all development applications in a timely manner with appropriate recommendations with respect to engineering matters

Fleet Services - Ensure that vehicles and equipment are ready when required

Geomatics - Collect and maintain geographic information and core data on City assets to support service expectations and critical business decision system

Parking and TDM - Implement the City Centre Parking Strategy



Current Service Levels

Long-range Planning and Policy Development - Develop appropriate plans and strategies to guide decision making related to the city's transportation and storm water management infrastructure

Minimum Maintenance Standards - Meet or exceed Provincial Minimum Maintenance Standards for the city's roadways and related assets

Storm Sewer Network - Inspect and capture video of all storm sewers a minimum of every ten years

Streetlighting - Maintain and ensure the operation of the streetlight network in accordance with established service response times

Permits – Review and process permit applications in accordance with city standards

Traffic Management - Manage traffic operations in accordance with provincial regulations and design standards

Watercourses - Carry out full inspection a minimum of every five years and review identified "hot spots" annually

Winter - For an average winter storm, clear major arterial and collector roads within twelve hours after the end of the storm; clear residential roads, priority sidewalks and bus stops within twenty-four hours after the storm ends



Engaging our Customers

- Public meetings
- The City's website
- Door flyers
- National Public Works Week
- 311 Call Centre



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Performance Measures

Measures for Roads, Storm Drainage and Watercourses

| | Objective | Moacuro | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|-----------|--|--|-----------|-----------|-----------|-----------|-------------|-------------|-------------|
| | Objective | Measure | Actual | Actual | Planned | Planned | Planned | Planned | Planned |
| | Without compromising | Average Road Maintenance Operating Cost Per Lane Km | \$1,552 | \$1,989 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,500 |
| Financial | public safety continue to find efficiencies in day to day operations while providing | Average Storm Water Management Operating Cost per Km of Storm Sewer | \$1,067 | \$1,235 | \$1,300 | \$1,300 | \$1,350 | \$1,400 | \$1,400 |
| Fina | consistent service levels. | Average Winter Maintenance Operating Cost Per Lane Km | \$4,356 | \$2,877 | \$3,500 | \$3,500 | \$3,500 | \$3,500 | \$3,500 |
| | Planned increase in parking revenues over time with the introduction of new parking facilities | Annual Gross Parking Revenues | \$182,357 | \$209,204 | \$255,000 | \$709,000 | \$1,031,000 | \$1,109,000 | \$1,157,000 |

Performance Measures

Measures for Roads, Storm Drainage and Watercourses

| | Objective | Measure | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|-----------|--------------------------|--|--------|--------|---------|---------|---------|---------|---------|
| | Objective | ivieasure | Actual | Actual | Planned | Planned | Planned | Planned | Planned |
| Customers | Citizen Satisfaction | Average citizen satisfaction rating for roads, traffic and environmental planning | 7.1 | 7.1 | 7.5 | 7.5 | 8 | 8 | 8 |
| | | Overall employee engagement for Transportation and Works | 65% | 65% | 66% | 67% | 68% | 69% | 70% |
| Employees | Employee Satisfaction | Employee engagement survey participation for Transportation and Works | 45% | 45% | 48% | 48% | 51% | 51% | 55% |
| | | Employee satisfaction professional and personal development for Transportation and Works | 62% | 62% | 63% | 64% | 65% | 66% | 67% |





Measures for Roads, Storm Drainage and Watercourses

| | Objective | Measure | 2008 Actual | 2009 Actual | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned |
|-----------------------------|--|---|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Adhere to planned asset condition levels while | Percentage of | 81% | 77% | 76% | 75% | 74% | 73% | 72% |
| _ | maintaining public safety | Percentage of Bridges in Good Condition Or Better | 87% | 90% | 90% | 90% | 90% | 90% | 90% |
| Internal Business Processes | Move traffic efficiently, volume to capacity ratio | Percentage of City owned intersections that function at or above capacity | 14% | 14% | 14% | 15% | 15% | 15% | 15% |
| Internal E | Traffic Safety | Number of Collisions per 1000 population | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | Adhere to operational service levels | Percentage of Time that Winter Response Times Were Met | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| | Adhere to Green Fleet Plan | Percentage of scheduled fleet converted to Green Fleet Standards | 70% | 80% | 90% | 100% | 100% | 100% | 100% |



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Goals Of This Plan

Asset Management

- Maintain state of good repair for infrastructure
- Comply with legislative changes (Minimum Maintenance Standards and Accessibility)
- Lever technology to further integrate Infrastructure Asset Management Strategy

Multi-Modal Transportation Network

- Transportation network planning
- Develop and implement the Transportation Master Plan
- Implement the Cycling Master Plan

Greening – Environmental Stewardship

- Implement lot level storm water quality measures
- Utilize alternative winter de-icing materials

Goals Of This Plan

Continuous Improvement

- Implement cost efficiencies
- Advance the Traffic Management Centre
- Review opportunities for partnerships in parking infrastructure
- Develop a Service Area communications strategy
- Implement a new works facility

Human Resources

- Enhance staff skill set through training and mentor staff for succession planning
- Promote cross-departmental staff teams for project delivery
- Attract talented multi-disciplinary people
- Provide opportunities to encourage innovative and creative thinking



Proposed Service Changes



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Budget Summary Table

Drivers of Operating Costs

| Description (\$ 000's) | 2011 | 2012 | 2013 | 2014 |
|---|---------|--------|--------|--------|
| Prior Year Budget | 63,768 | 65,599 | 69,140 | 72,655 |
| Base Changes & Impact of Capital Projects | | | | |
| Base Changes | 2,235 | 2,692 | 2,458 | 2,012 |
| Impact of New Capital Projects | 10 | 10 | 0 | 0 |
| Continuous Improvements | | | | |
| Efficiencies | (1,882) | 0 | 50 | (50) |
| Budget Reductions | (53) | 0 | 0 | 0 |
| Total Changes to Base and Continuous Improvement | 310 | 2,702 | 2,508 | 1,962 |
| Total Cost to Deliver Our Existing Services | 64,078 | 68,301 | 71,648 | 74,617 |
| Proposed Changes | | | | |
| Growth Driven Initiatives | 192 | 47 | 22 | 22 |
| New Service Level/New Initiatives - Funded from Tax or Reserves | 1,329 | 792 | 985 | 703 |
| New Revenues | 0 | 0 | 0 | 0 |
| Total - Proposed Changes | 1,521 | 839 | 1,007 | 725 |
| Total Budget | 65,599 | 69,140 | 72,655 | 75,342 |

Base Changes

Highlights of Base Budget Changes

| Description (\$ 000's) | FTE | 2011 | 2012 | 2013 | 2014 | Total Net Costs |
|---|-----|-------|-------|-------|-------|--------------------|
| Labour cost increases (reflects performance pay, economic adjustments, and fringe benefit changes). | 0.0 | 951 | 1,264 | 1,157 | 740 | 4,112 |
| Labour Gapping | 0.0 | (263) | 0 | 0 | 0 | (263) |
| Winter - Contractor & Professional Services | 0.0 | 550 | 572 | 570 | 593 | 2,285 |
| Winter - Materials, Supplies & Other Services | 0.0 | 199 | 206 | 215 | 223 | 843 |
| City Centre On-Street Paid Parking- Revenue Adjustment-Budget Request-375 | 0.0 | 500 | 0 | 0 | 0 | 500 |
| Hydro Streetlighting, Traffic Signals & Bollards | 0.0 | 100 | 100 | 100 | 100 | 400 |
| Reduction in Development Revenue - Engineering Fees-Budget Request-372 | 0.0 | 100 | 25 | 25 | 25 | 175 |
| Corporate Asset - Civic Addresses and Street Names-Budget Request-160 | 0.0 | 0 | 50 | (50) | 0 | 0 |
| Utilities - Hydro | 0.0 | (7) | 11 | 8 | 8 | 20 |
| On-Street Paid Parking & BIA Parking Facilities-Budget Request-280 | 1.0 | (18) | 13 | (14) | (14) | (33) |
| City Centre Parking (Transfer to reserve CC24012) | 0.0 | (350) | 0 | 0 | 0 | (350) |
| Total Base Budget Highlights | 1.0 | 1,762 | 2,241 | 2,011 | 1,675 | 7,689 |
| | | | | | | |



Base Changes-Due To Capital Projects

Operating Impacts from Capital Projects

| Description (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Total Net Costs |
|--|-----|-----|------|------|------|------|--------------------|
| Update and Enhancement of the Rain Gauge Network | 272 | 0.0 | 10 | 10 | 0 | 0 | 20 |
| Total Operating Budget Impact | | 0.0 | 10 | 10 | 0 | 0 | 20 |





Continuous Improvement

| Efficiencies | | | | | | | |
|---|-----|-------|---------|------|------|------|--------------------|
| Description (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Total Net Costs |
| Leaf Collection - improving the efficiency of the operation | 263 | -2.2 | (100) | 0 | 0 | 0 | (100) |
| Street Cleaning - Improving efficiency | 264 | -1.1 | (350) | 0 | 0 | 0 | (350) |
| Winter Maintenance Review | 265 | -3.0 | (1,282) | 0 | 0 | 0 | (1,282) |
| Salt Management - Alternative de-icing materials | 266 | 0.0 | (50) | 0 | 0 | 0 | (50) |
| Budget Reduction - Professional Services and Administration (RSDW Service Area) | 512 | 0.0 | (100) | 0 | 0 | 0 | (100) |
| Sharing spatial information in project areas using ProjectWise application | 274 | 0.0 | 0 | 0 | 50 | (50) | 0 |
| Total Operating Budget Impact | | (6.2) | (1,882) | 0 | 50 | (50) | (1,882) |
| Note: Numbers may not balance due to rounding | | | | | | | |

Continuous Improvement

Recommended Program Reductions

| Description (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Total Net Costs |
|--|-----|-----|------|------|------|------|--------------------|
| Reductions in Business Services Division - Transportation and Works Department * | 533 | 0.0 | (53) | 0 | 0 | 0 | (53) |
| Total Operating Budget Impact | | 0.0 | 0 | 0 | 0 | 0 | 0 |

*Impacts reflected in Corporate Business Services





New Initiatives

Increased Service Levels/New Initiatives - Funded from Tax

| Description (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Total Net Costs |
|---|-----|------|-------|------|-------|------|--------------------|
| Cycling Master Plan Implementation | 211 | 4.0 | 502 | 386 | 329 | 284 | 1,501 |
| Traffic Signal Enhancement Installation | 354 | 0.0 | 50 | 50 | 50 | 50 | 200 |
| Watercourse Management Implementation | 382 | 3.0 | 126 | 288 | 29 | 0 | 443 |
| Transportation Demand Management & Smart Commute Support | 213 | 0.0 | 80 | 0 | (40) | 0 | 40 |
| Amended Minimum Maintenance Standards - Sign Inventory, Sidewalk Patrol, Street Lighting | 270 | 3.3 | 546 | 0 | 0 | 0 | 546 |
| Clarkson Air Quality Improvements | 442 | 0.0 | 25 | 0 | 0 | 0 | 25 |
| Integrated Road Safety Program (IRSP) | 335 | 1.0 | 0 | 68 | 43 | 0 | 111 |
| Expanded use of Hansen IMS to enhance T&W permit and dispatch services ** | 359 | 0.0 | 0 | 0 | 12 | (1) | 11 |
| Traffic Management Centre | 222 | 8.0 | 0 | 0 | 362 | 370 | 732 |
| Mississauga Storm Water Quality Control Strategy Implementation | 401 | 0.0 | 0 | 0 | 200 | 0 | 200 |
| Total Operating Budget Impact | | 19.3 | 1,249 | 792 | 1,013 | 704 | 3,809 |

^{*} A portion of these impacts reflected in Transit Service Area

^{**}Impacts reflected in corporate Business Services

Growth Changes

Growth Driven Service Costs

| Description | | | | | | | Total |
|--|-----|-----|------|------|------|------|-----------|
| (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Net Costs |
| Infrastructure Asset Management Program Implementation - New Asset Inventories & Reporting | 64 | 1.0 | 43 | 53 | 20 | 20 | 136 |
| City Centre Off-Street Parking | 146 | 2.0 | 100 | (55) | 2 | 2 | 49 |
| Integrated Surveys and Control Network | 31 | 1.0 | 49 | 49 | 0 | 0 | 98 |
| Total Operating Budget Impact | | 4.0 | 192 | 47 | 22 | 22 | 283 |



4 Yr Budget Summary

4 Year Budget and Forecast

| (\$ 000's) | 2010 | 2011 | % | 2012 | % | 2013 | % | 2014 | % |
|--------------------------|---------|---------|--------|---------|--------|----------|--------|-----------------|--------|
| (\$ 000 s) | Budget | Budge | Change | Budget | Change | Forecast | Change | Forecast | Change |
| Labour Costs | 25,602 | 26,395 | 3.1% | 28,090 | 6.4% | 29,760 | 5.9% | 30,904 | 3.8% |
| Other Operating Expenses | 43,784 | 44,350 | 1.3% | 46,328 | 4.5% | 48,128 | 3.9% | 49,629 | 3.1% |
| Total Costs | 69,386 | 70,745 | 2.0% | 74,418 | 5.2% | 77,888 | 4.7% | 80,533 | 3.4% |
| Total Revenues | (7,824) | (7,307) | -6.6% | (7,604) | 4.1% | (7,657) | 0.7% | (7,680) | 0.3% |
| Net Cost | 61,563 | 63,438 | 3.0% | 66,814 | 5.3% | 70,232 | 5.1% | 72,853 | 3.7% |
| Allocations | 2,206 | 2,161 | -2.0% | 2,325 | 7.6% | 2,423 | 4.2% | 2,488 | 2.7% |
| Net of Allocations | 63,768 | 65,599 | 2.9% | 69,140 | 5.4% | 72,655 | 5.1% | 75,342 | 3.7% |
| | | | | | | | | | |



4 Yr Budget Summary

2011 - 2014 Net Operating Budget by Program

| Program Expenditures (\$ 000's) | 2011 Budget | % Change | 2012 Budget | % Change | 2013 Forecast | % Change | 2014 Forecast | % Change |
|---------------------------------|----------------|-------------|----------------|-------------|------------------|-------------|------------------|-------------|
| <u> </u> | | | | | _ | | | |
| Maintenance Control | 7,784 | -2.7% | 8,218 | 5.6% | 8,581 | 4.4% | 8,796 | 2.5% |
| Sewer Bridges & Watercourses | 1,363 | 13.1% | 1,582 | 16.1% | 1,586 | 0.2% | 1,590 | 0.2% |
| Winter Maintenance | 18,669 | -2.8% | 19,463 | 4.3% | 20,265 | 4.1% | 21,098 | 4.1% |
| Roads and Sidewalk Maintenance | 4,703 | 4.9% | 4,832 | 2.8% | 4,887 | 1.1% | 4,942 | 1.1% |
| Cleaning and Litter Pickup | 3,647 | -6.7% | 3,720 | 2.0% | 3,792 | 1.9% | 3,864 | 1.9% |
| Development Construction | 1,088 | 3.6% | 1,148 | 5.5% | 1,207 | 5.2% | 1,249 | 3.5% |
| Engineering & Capital Works | 349 | 149.4% | 486 | 39.1% | 623 | 28.2% | 695 | 11.6% |
| Corporate Fleet Maintenance | 1,341 | 14.7% | 1,490 | 11.1% | 1,639 | 10.0% | 1,748 | 6.7% |
| Transportation & Infrastructure | 4,688 | 16.7% | 5,450 | 16.3% | 6,262 | 14.9% | 6,730 | 7.5% |
| Streetlighting | 7,149 | 1.4% | 7,249 | 1.4% | 7,349 | 1.4% | 7,449 | 1.4% |
| Crossing Guards | 2,473 | 1.7% | 2,487 | 0.6% | 2,501 | 0.6% | 2,513 | 0.5% |
| Traffic Management | 9,292 | 8.8% | 9,684 | 4.2% | 10,413 | 7.5% | 11,045 | 6.1% |
| Parking Facilities | (108) | -74.9% | (145) | 33.9% | (152) | 4.6% | (160) | 5.5% |
| Administration | 3,163 | 5.5% | 3,477 | 9.9% | 3,704 | 6.5% | 3,784 | 2.1% |
| Net Program Impact | 65,599 | 2.9% | 69,140 | 5.4% | 72,655 | 5.1% | 75,342 | 3.7% |
| | | | | | | | | |



2011 Budget Summary

2011 Net Budget by Program

| Program Expenditures (\$ 000's) | 2009 Actual | 2010 Budget | 2011 Base Budget | Base Change % | | 2011 Request | 2011 Change | 2011 Change (%) |
|--|----------------|----------------|------------------------|---------------------|---------|-----------------|----------------|-----------------------|
| Maintenance Control | 9,542 | 7,998 | 7,843 | -1.9 | (59) | 7,784 | (213) | -2.7 |
| Sewer Bridges & Watercourses | 1,638 | 1,206 | 1,303 | 8.1 | 60 | 1,363 | 158 | 13.1 |
| Winter Maintenance | 14,605 | 19,213 | 19,838 | 3.2 | (1,169) | 18,669 | (545) | -2.8 |
| Roads and Sidewalk Maintenance | 4,065 | 4,483 | 4,703 | 4.9 | 0 | 4,703 | 220 | 4.9 |
| Cleaning and Litter Pickup | 2,993 | 3,908 | 4,097 | 4.9 | (450) | 3,647 | (260) | -6.7 |
| Development Construction | 1,027 | 1,050 | 1,088 | 3.6 | 0 | 1,088 | 38 | 3.6 |
| Engineering & Capital Works | (677) | 140 | 349 | 149.4 | 0 | 349 | 209 | 149.4 |
| Corporate Fleet Maintenance | 1,087 | 1,169 | 1,341 | 14.7 | 0 | 1,341 | 171 | 14.7 |
| Transportation & Infrastructure Planning | 2,913 | 4,018 | 4,210 | 4.8 | 478 | 4,688 | 670 | 16.7 |
| Streetlighting | 7,050 | 7,049 | 7,149 | 1.4 | 0 | 7,149 | 100 | 1.4 |
| Crossing Guards | 2,379 | 2,432 | 2,473 | 1.7 | 0 | 2,473 | 41 | 1.7 |
| Traffic Management | 7,646 | 8,537 | 8,775 | 2.8 | 517 | 9,292 | 755 | 8.8 |
| Parking Facilities | 90 | (432) | (208) | 51.8 | 100 | (108) | 323 | 74.9 |
| Administration | 2,811 | 2,999 | 3,071 | 2.4 | 92 | 3,163 | 165 | 5.5 |
| Net Program Impact | 57,170 | 63,768 | 66,030 | 3.5% | (431) | 65,599 | 1,831 | 2.9% |
| · | | | | | | | | |



Human Resources

Human Resources Requirement

| Total FTE |
|-----------|
| 417.5 |
| 420.9 |
| 425.6 |
| 430.6 |
| 434.6 |
| |





Proposed Staff Increase

| Proposed Changes to Staff Complement | | | | |
|--|-----|-------|------|--|
| Position | SN# | FTE | Year | |
| Land Surveyor | 31 | 1 | 2011 | |
| GIS Specialist – Storm Sewer Network | 64 | 1 | 2011 | |
| Parking Permit Clerk | 146 | 1 | 2011 | |
| Parking Maintenance and Collections | 146 | 1 | 2011 | |
| Cycling Technologist | 211 | 1 | 2011 | |
| Trail Route Inspector (Community Services) | 211 | 1 | 2011 | |
| Leaf Collection Temporary Labour Hours | 263 | -2.16 | 2011 | |
| Street Cleaning Temporary Labour Hours | 264 | -1.08 | 2011 | |
| Winter Maintenance Temporary Labour Hours | 265 | -3 | 2011 | |
| Sign Technician (Minimum Maintenance Standards) | 270 | 1 | 2011 | |
| Labourer (Sign Maintenance) | 270 | 1 | 2011 | |
| Sidewalk and Signs Inspectors - Summer Students | 270 | 1.33 | 2011 | |
| Water Resources Engineer (Part Time/Contract) | 382 | -1 | 2011 | |
| Water Resources Engineer (Conversion to Full Time) | 382 | 1 | 2011 | |
| Environmental Co-op Student - Watercourses | 382 | 0.33 | 2011 | |
| Total Net Changes (Excluding Trail Inspector) 2.42 | | | | |

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Technology

- Advance the Traffic Management Centre and Intelligent Transportation Systems (ITS)
- Upgrade asset management software and expand use of system to complete inventories and automate capital project management
- Expand use of Automated Vehicle Locator (AVL) and GPS - Upgrade/replace supporting equipment and networks
- Develop on-line business transactions/streamline various business processes

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Facilities

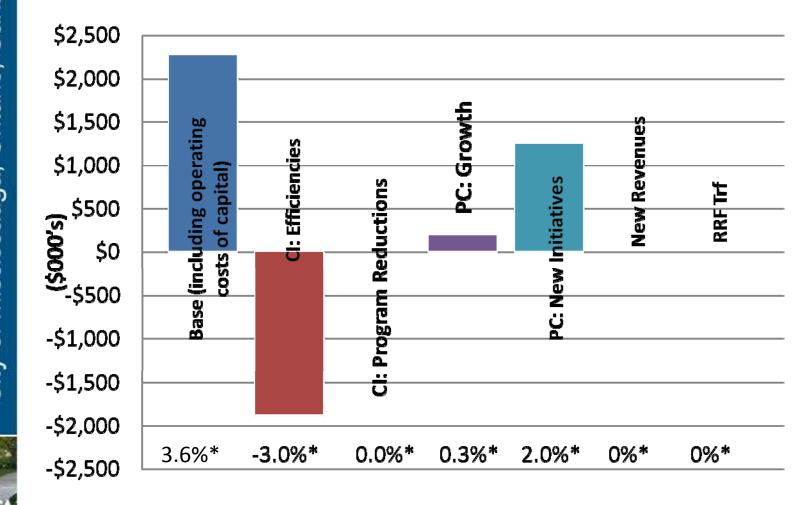
- 201 City Centre Dr. reconfigure office space to support Cycling Office and watercourse management
- 3185 Mavis Road reconfigure administrative building to support the growth required for Traffic Management Centre
- South-East Works facility begin construction
- North-Central Works facility begin planning and design for the new facility

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Summary of 2011 Changes

(2.9% Increase from 2010 Net Operating Budget)



 $[\]mbox{*}$ represents the % increase or decrease relative to the 2010 Net Operating Budget 31



2011 Operating Highlights





Parking and TDM

<u>Parking</u>

| • | City Centre revenue adjustment | \$500k |
|---|---|---------|
| • | Transfer to reserve fund reduction | -\$322k |
| • | Incremental cost of City Centre off-street facilities | \$100k |
| • | Incremental Revenue for City Centre & BIA | -\$ 18k |
| • | Labour adjustments for collections and maintenance | \$ 16k |
| • | Parking machine communications costs | \$ 44k |

TDM

| • | Car Share Program | \$ 40k |
|---|--|--------|
| • | Discount Transit Program (Pilot Extension) | \$ 40k |

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Winter Maintenance

2010 Approved \$19.2M 2011 Proposed \$18.7M Net Decrease (\$545k)

| \ A / ' . | • • | • |
|-----------|-------------|--------|
| Winter | maintenance | review |

-\$1.159M

 Reduced equipment by 6 City owned sidewalk tractors and 10 City owned spreader units

| | op. ou.or. | | |
|---|-----------------------------------|-----|------|
| • | Salt management | -\$ | 10k |
| • | Labour adjustments | -\$ | 125k |
| • | Contract increases | \$ | 527k |
| • | Sand and salt materials increases | \$ | 199k |
| • | Automatic vehicle locator | \$ | 25k |



2010 Approved \$3.9M 2011 Proposed \$3.6M Net Decrease (\$260k)

| • | Street cleaning efficiency | -\$ | 345k |
|---|--|-------|------|
| | reduction in labour hours 1.1 FTE | | |
| | reduction in contracted resources | | |
| • | Leaf collection efficiency | -\$ | 90k |
| | reduction in # of collections from 3 to 2 | | |
| | reduction in labour hours 2.2 FTE and contract ser | vices | |
| • | Salt management savings | -\$ | 40k |
| • | Clarkson air quality | \$ | 25k |
| • | Labour adjustments | \$: | 125k |
| • | Contract pressures (graffiti, waste, leaf) | \$ | 65k |

Sewer, Bridge & Watercourse Maintenance

2010 Approved \$1.2M

2011 Proposed \$1.4M

Net Increases \$158k

| • | Watercourse management | \$ 60k |
|---|--|--------|
| | Contracted watercourse maintenance | |
| • | Labour adjustments | \$ 63k |
| • | Preventative maintenance/bridge cleaning | \$ 35k |





Traffic Management

2010 Approved \$8.5M 2011 Proposed \$9.3M Net Increases \$755K

| • | Minimum Maintenance Standards | \$ 467k |
|---|--|---------|
| | Sign inspection - 2 FTE's | |
| | Vehicle and equipment (GPS, reflectometer) | |
| • | Operating impact of traffic signal installation | \$ 50k |
| • | Labour adjustments | \$ 117k |
| • | Traffic system and signal maintenance | \$ 41k |
| • | Traffic signal line communications | \$ 51k |



Traffic Management

Funded from Tax

| Description | | | | | | | Total |
|---------------------------------------|-----|-----|------|------|------|------|-------|
| (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Net |
| | | | | | | | Costs |
| Traffic Signal Enhancement | 354 | 0.0 | 50 | 50 | 50 | 50 | 200 |
| Integrated Road Safety Program (IRSP) | 335 | 1.0 | 0 | 68 | 43 | 0 | 111 |
| Traffic Management Centre | 222 | 8.0 | 0 | 0 | 362 | 370 | 732 |

2012

IRSP - \$68K

- \$43K for Labour to coordinate program
- \$25K for data collection and analysis

Post 2013

Traffic Management Centre Implementation

- 4 FTE's Proposed in 2013
- 4 FTE's Proposed in 2014

Road and Sidewalk Maintenance

2010 Approved \$4.5M 2011 Proposed \$4.7M Net Increases \$220k

Labour adjustments \$ 105k

Contract services \$ 90k

(reflects actual costs, outstanding work, cost increases)

Asphalt material cost adjustments
 \$ 25k



Maintenance Control

2010 Approved \$8.0M 2011 Proposed \$7.8M Net Decrease \$213k

| • | Winter maintenance review | -\$1 | L23k |
|---|---|------|------|
| | Reduction in part-time labour equivalent to 3 FTE's | | |
| • | Minimum Maintenance Standards | \$ | 79k |
| | 4 additional students and equipment | | |
| • | Leaf collection efficiency | -\$ | 20k |
| | contracted leaf pick up hours | | |
| • | Street cleaning efficiency | -\$ | 5k |
| • | Labour adjustments | \$ | 59k |
| • | Utility and other cost adjustments | -\$ | 15k |

Streetlighting

2010 Approved - \$7.049M

2011 Proposed - \$7.149M

Net Increases \$100k

Hydro cost increases

\$100k





2010 Approved \$4.0M 2011 Proposed \$4.7M Net Increase \$670K

| TIP professional services reduction | -\$ 100k |
|---|----------|
| Cycling Office | \$ 502k |
| Watercourse management | \$ 66k |
| Water Resource Engineer and co-op student | |
| Development revenue reduction | \$ 100k |
| Rain gauge update | \$ 10k |
| Labour adjustments | \$ 101k |
| Other operating adjustments | \$ 7k |
| | |

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Cycling

Funded from Tax

| Description | | | | | | | Total |
|------------------------------------|-----|-----|------|------|------|------|-------|
| (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Net |
| | | | | | | | Costs |
| Cycling Master Plan Implementation | 211 | 4.0 | 502 | 386 | 329 | 284 | 1,501 |

- 2 FTE \$92k (mid year start)
 - Cycling Technologist
 - Trail Inspector for Community Services
- Contracts, professional services, materials \$410k
 - 30 km of new facilities annually: lane markings and signage component
 - Bike racks and storage facilities
 - Education and safety programs
 - Road, boulevard, path and trail maintenance



Watercourse Management

Funded from Tax

| Description (\$ 000's) | BR# | FTE | 2011 | 2012 | 2013 | 2014 | Total Net |
|------------------------|-----|-----|------|------|------|------|--------------|
| | | | | | | | Costs |
| Watercourse Management | 382 | 3.0 | 126 | 288 | 29 | 0 | 443 |

2011

- 1 FTE Water Resource Engineer \$55K (mid-year start)
- additional co-op student 4 month term watercourse inspection \$11K
- additional maintenance cost \$60K (reflected in Works maintenance program)

2012

- 1 FTE Storm Drainage Technician and balance of funding for Water Resource Engineer- \$84k
- 2 additional co-op students \$24K
- additional maintenance costs \$180k (reflected in Works maintenance program)

Capital Budget

Capital Summary

2011 - 2020 Total Net Capital Program

| Program Expenditures (\$ 000's) | 2011 Budget | 2012 Budget | 2013 Forecast | 2014 Forecast | Post 2014 Forecast | Total (\$) |
|--------------------------------------|----------------|----------------|------------------|------------------|-----------------------|------------|
| Bridge & Structure Rehabilitation | 4,500 | 4,500 | 4,500 | 4,500 | 27,000 | 45,000 |
| Major Roads | 11,231 | 12,148 | 13,620 | 20,958 | 116,990 | 174,947 |
| Other Engineering | 22,012 | 27,562 | 21,362 | 24,917 | 123,196 | 219,050 |
| Roadway Rehabilitation | 22,908 | 15,374 | 16,224 | 23,900 | 144,450 | 222,855 |
| Storm Drainage | 6,977 | 17,311 | 19,710 | 12,230 | 37,050 | 93,078 |
| Total Net Expenditures | 67,628 | 76,895 | 75,416 | 86,505 | 448,686 | 755,130 |

Note: Numbers may not balance due to rounding.

Annual Average \$75.5M 10 -Year increase from previous forecast \$55.5M



Note: The 2011 budget request is \$3.7M lower then the 2010 forecast for 2011

Bridge & Structure Rehabilitation Highlights

2011-2014 Capital Budget Request • Reflects recommended annual state of good repair funding

| (\$000's) | 2011 | 2012 | 2013 | 2014 |
|-----------------------------------|-------|-------|-------|-------|
| Bridge & Structure Rehabilitation | 4,500 | 4,500 | 4,500 | 4,500 |

2011

- Lakeshore Road East over Applewood Ck.
- Lakeshore Road East over Serson Ck.
- Tannery Street over Mullet Ck.
- St. Mary's Avenue over Applewood Ck.
- Eglinton Avenue West over the Credit River





Roadway Rehabilitation Highlights

2011-2014 Roadway Rehabilitation • State of Good Repair Study to be completed in 2011

| (\$000's) | 2011 | 2012 | 2013 | 2014 |
|------------------------|--------|--------|--------|--------|
| Roadway Rehabilitation | 22,908 | 15,374 | 16,224 | 23,900 |

2011

- Additional \$5.8M to restore Region's watermain replacement roads
- 67 lane km of residential roads
- 30 lane km of arterial, collector, industrial roads
- 2011-2013 ISF base reduction applied





2011-2014 Highlights Major Roads

2011-2014 Capital Highlights

| Description (\$000's) | 2011 Budget | 2012 Budget | 2013 Forecast | 2014 Forecast |
|--|----------------|----------------|------------------|------------------|
| Duke of York Boulevard/Square One Drive Roundabout | 2,000 | 0 | 0 | 0 |
| Creditview Road Bridge Widening at the Credit River | 3,000 | 0 | 0 | 0 |
| Burnhamthorpe Road West Through City Centre (Arista Way to Mavis Rd) (BR 80) | 4,750 | 0 | 0 | 0 |
| Main Street (Baif Road) - Burnhamthorpe Road West to Webb Drive | 0 | 500 | 0 | 0 |
| Ninth Line Widening (Derry Road to North Limits) | 0 | 9,400 | 0 | 0 |
| Creekbank Road (3 phases) | 0 | 0 | 2,362 | 1,710 |
| Drew Road – Dixie Road to Tomken Road (Phase 1, and Structure) | 0 | 0 | 6,000 | 8,500 |
| McLaughlin Road – Bristol Road to Britannia Road West | 0 | 0 | 4,260 | 0 |
| Courtney Park Drive East – Kennedy Road to Dixie Road | 0 | 0 | 0 | 7,980 |
| Centreview Drive Widening – Duke of York Boulevard to Rathburn Road West | 0 | 0 | 0 | 1,270 |



2011-2014 Highlights Major Roads

2011 Studies

- Transportation Master Plan \$50k
- DT 21- Transportation Functional Design \$200
- Preliminary Engineering Studies \$83K
- EA/Grade Separation Feasibility Study for Ninth Line from Derry Road West to North Limit - \$250k



2011-2014 Highlights Other Engineering

| (\$000's) | 2011 Budget | 2012 Budget | 2013 Forecast | 2014 Forecast |
|--|----------------|----------------|------------------|------------------|
| Noise Attenuation Barriers | 1,850 | 3,000 | 3,000 | 1,556 |
| Cycling Program | 3,770 | 3,770 | 3,770 | 3,770 |
| Sidewalk Program including transit sidewalk priority | 2,244 | 2,244 | 2,244 | 2,244 |
| Municipal Parking | 300 | 298 | 460 | 160 |
| Salt Management including study for permanent snow storage sites | 200 | 2,550 | 50 | 7,150 |
| Streetlighting | 1,417 | 1,417 | 1,417 | 1,417 |
| Traffic Signals | 3,717 | 2,492 | 4,492 | 2,492 |



2011-2014 Highlights Other Engineering

Noise Barriers

- Applied for additional ISF works at \$2.04M
- Recommend: If ISF work approved, reduce 2011 budget by \$1.8M (tax)
- Proposed budget funds NOW and 1-5 year replacement program over 3 years (\$50k still needed to update needs study)

Sidewalks

- 2011 Front ending DC funding for new sidewalks to support transit accessibility
- Additional \$1.25 M annually for the next 4 years



2011-2014 Highlights Other Engineering

Traffic Signals -10 year program includes

- Traffic Management Centre
- Traffic signal LED replacement
- New traffic signal installation
- Transit signal priority and fire vehicle pre-emption
- Field Equipment Replacement Traffic Controllers
- ITS Equipment
- Accessible pedestrian timers
- Uninterruptible power supply
- Pedestrian count down timers



2011-2014 Highlights Storm Drainage

2011-2014 Capital Budget Request

| (\$000's) | 2011 | 2012 | 2013 | 2014 |
|----------------|-------|--------|--------|--------|
| Storm Drainage | 6,977 | 17,311 | 19,710 | 12,230 |

2011 Projects

Cooksville Creek

- Engineering and design studies \$3M
- Various flooding and erosion control improvements advanced \$1.47M
- Basement flood remediation and action plan phase II \$250k

Other creek and storm water projects

- Applewood Creek erosion project
- Applewood Creek culvert improvement
- Sawmill Creek erosion projects
- Sheridan Creek erosion project
- Mullet Creek Arch Pond water quality retrofit

Unfunded Pressures

- Major roads deferred beyond 10 year plan due to decreasing DC's
- Road rehabilitation approximately \$6.5M annually
- Noise barriers on major collector roads
- Grade separations deferred
- Storm drainage
 - Cooksville Creek flooding mitigation and downspout disconnection program and engineering study recommendations
 - Expansion of watercourse management programs city wide
 - Limited funding for erosion control projects
- •Traffic Management Centre space requirement
- •Streetlighting retrofit
- Traffic calming

Unfunded

Safe Driving, Traffic Safety and Accessibility Advisory Committees

"Budget Committee be requested to allocate funding for one full-time contract staff position in the Traffic Engineering and Operations section of the Transportation and Works Department's 2011 operating budget and business plan, to coordinate the implementation of a traffic calming pilot project, as well as a \$100,000 capital budget allocation to fund construction or purchase of components for the pilot project."

Capital Budget Summary

2011 - 2014 Net Capital Detail Changes

| Program Expenditures (\$ 000's) | BR# | 2011 Budget | 2012 Budget | 2013 Forecast | 2014 Forecast | Post 2014 Forecast | Total (\$) |
|---|-----|----------------|----------------|------------------|------------------|-----------------------|------------|
| Permanent Snow Storage Sites | 267 | 150 | 2,500 | 0 | 7,100 | 5,400 | 15,150 |
| Winter Maintenance Review | 265 | (50) | (50) | (50) | (50) | (300) | (500) |
| DT21 Transportation Functional Design Studies | 350 | 200 | 200 | 0 | 0 | 0 | 400 |
| Transit Accessibility Plan - Sidewalk Program | 355 | 1,250 | 1,250 | 1,250 | 1,250 | (2,894) | 2,106 |
| On-Street Paid Parking and BIA Parking Facilities | 280 | 300 | 298 | 460 | 160 | 10,000 | 11,218 |
| Transportation Master Plan | 121 | 50 | 0 | 0 | 0 | 0 | 50 |
| Roadway Rehabilitation Program | 63 | 5,800 | 0 | 0 | 0 | 0 | 5,800 |
| Cooksville Creek Capital Projects | 404 | 4,480 | 1,180 | 5,130 | 3,360 | (11,150) | 3,000 |
| Bridge/Culvert Rehabilitation Program | 94 | 2,175 | 4,175 | 2,375 | 2,375 | 18,745 | 29,845 |
| Noise Attenuation Barriers | 62 | 350 | 0 | 2,622 | 1,178 | 3,563 | 7,713 |
| Amended Minimum Maintenance Standards - Sign Inventory, Sidewalk Patrol, Street Lighting | 270 | 200 | 0 | 0 | 0 | 0 | 200 |
| Update and Enhancement of the Rain Gauge Network | 272 | 67 | 21 | 0 | 0 | 0 | 88 |

Capital Budget Summary

2011 - 2014 Net Capital Detail Changes

| Program Expenditures (\$ 000's) | BR# | 2011 Budget | 2012 Budget | 2013 Forecast | 2014 Forecast | | Total (\$) |
|---|-----|----------------|----------------|------------------|------------------|---------|------------|
| Integrated Surveys and Control Network | 31 | 35 | 35 | 35 | 35 | 210 | 350 |
| Storm Drainage Network Modelling | 403 | (150) | (500) | 250 | 250 | 0 | (150) |
| Mississauga Storm Water Quality Control Strategy Implementation | 401 | 0 | 250 | 250 | 250 | 1,500 | 2,250 |
| Burnhamthorpe Road through City Centre (Arista Way to Mavis Road) | 80 | 1,250 | (2,500) | 0 | 0 | 30,000 | 28,750 |
| Expanded use of Hansen IMS to enhance T&W permit and dispatch services | 359 | 0 | 0 | 116 | 0 | 0 | 116 |
| New North Central Works Yard | 398 | 0 | 0 | 50 | 50 | 100 | 200 |
| Traffic Signal Capital Installation | 354 | 0 | 0 | 0 | 0 | 1,500 | 1,500 |
| Goreway Drive Grade Separation | N/A | (2,000) | (4,000) | 0 | 0 | 8,000 | 2,000 |
| Drew Road Grade Separation - Construction | N/A | 0 | 0 | 0 | (14,000) | 14,000 | 0 |
| Creekbank Road Extension Structure over Hwy 401 | N/A | 0 | 0 | (11,302) | 0 | 11,302 | 0 |
| Dundas Street West - Winston Churchill Boulevard to Glen Erin Drive | N/A | 0 | 0 | 0 | 0 | (4,390) | (4,390) |

Capital Budget Summary

2011 - 2014 Net Capital Detail Changes

| Program Expenditures (\$ 000's) | BR# | 2011 Budget | 2012 Budget | 2013 Forecast | | | Total (\$) |
|--|-----|----------------|----------------|------------------|---|----------|------------|
| Ninth Line Widening - Eglinton Avenue West to Britannia Road West | N/A | 0 | 0 | 0 | 0 | (9,010) | (9,010) |
| Tenth Line - Derry Road to Argentia Road | N/A | 0 | 0 | 0 | 0 | (4,850) | (4,850) |
| Creekbank Road Extension - Enterprise Drive, Shawson Drive and Britannia Road East | N/A | (6,000) | 6,000 | 0 | 0 | 0 | 0 |
| Sheridan Creek Erosion Control - Clarkson Road to Meadow Wood Road | N/A | (1,340) | 1,340 | 0 | 0 | 0 | 0 |
| Retrofit - Mullet Creek SWM Pond #5401 - West of Argentia Road and North of Derry Road West | N/A | (3,592) | 3,590 | 0 | 0 | 0 | (2) |
| Mullet Creek Erosion Control - Burnhamthorpe Road West to behind Woodchuck Lane | N/A | (1,500) | 1,490 | 0 | 0 | 0 | (10) |
| Retrofit - Mullet Creek SWM Pond #5402 - North of Derry Road West and West of Syntex Drive | N/A | 0 | (7,610) | 7,610 | 0 | 0 | 0 |
| Total Net Expenditures | | (12,432) | 4,810 | 7,610 | 0 | (13,860) | (13,872) |

Note: Numbers may not balance due to rounding.

Questions?