



**Standing Committee on  
Environmental Protection,  
Water and Waste  
Management**

Tax Supported Programs



2019-194

**Draft  
BUDGET 2019**

Better roads and transit.  
Safer communities.  
More housing.



# Table of Contents

## Standing Committee on Environmental Protection, Water and Waste Management - Tax Supported Programs

Service Area Summary .....	1
Infrastructure Services .....	1
Resiliency and Natural Systems .....	3
Solid Waste Services .....	4
Forestry Services .....	6
Operating Resource Requirement Summary .....	7
Infrastructure Services .....	8
Operating Resource Requirement .....	8
User Fees .....	9
Resiliency and Natural Systems Policy .....	10
Operating Resource Requirement .....	10
Solid Waste Services .....	11
Operating Resource Requirement .....	11
User Fees .....	12
Forestry Services .....	14
Operating Resource Requirement .....	14
User Fees .....	15
Capital Program Funding Summary .....	16
Supplemental Operating & Capital Information .....	17
Analysis Summary .....	17

Infrastructure Services ..... 19  
    Analysis ..... 19  
    Explanatory Notes ..... 21  
Resiliency and Natural Systems Policy ..... 24  
    Analysis ..... 24  
    Explanatory Notes ..... 25  
Solid Waste Services ..... 26  
    Analysis ..... 26  
    Explanatory Notes ..... 28  
Forestry Services ..... 30  
    Analysis ..... 30  
    Explanatory Notes ..... 31  
Capital Budget ..... 31  
Project Detail ..... 31  
    Environment Services ..... 33  
    Solid Waste ..... 36  
4 Year Capital Plan ..... 46  
Capital Works-In-Progress ..... 47

# **Planning, Infrastructure and Economic Development Infrastructure Services (IS) 2019 Service Area Summary**

## **Description**

Infrastructure Services (IS) is part of the Planning, Infrastructure and Economic Development (PIED) Department, a department that champions the city-building agenda – from planning and delivering growth opportunities and infrastructure, to managing City assets, to fostering economic prosperity.

### **Vision**

To build a better Ottawa for all to enjoy, today and into the future.

### **Mission**

To implement city-building priorities from planning and delivering infrastructure projects, to managing infrastructure assets and investments.

## **Programs/Services Offered**

The following are services offered by Infrastructure Services:

### **Asset Management**

Administer and optimize the lifecycle of municipal infrastructure valued at over \$42 billion, maintain asset inventory, undertake condition and performance assessments, develop risk-based renewal strategies and define investment needs.

Lead water resource master planning, source water protection and capital program definition. Manage the City's Comprehensive Asset Management (CAM) Program.

### **Quality Management**

Provide overall quality management on infrastructure projects in terms of design guidelines and construction standards, material quality and project delivery practices.

### **Design and Construction**

Manage the design and construction of new and renewal of existing municipal infrastructure, buildings and parks. This is approximately \$500 million in capital projects annually.

# **Planning, Infrastructure and Economic Development Resiliency and Natural Systems 2019 Service Area Summary**

## **Description**

Provides strategic policy expertise and coordination to the City in the areas of natural systems & climate change mitigation and adaptation, while delivering clear, consistent environmental policies to support planning and growth management of the City while minimizing negative impacts and building resilience.

## **Programs/Services Offered**

It also fosters a positive public persona of Ottawa as a healthy liveable city through policy, strategies, public engagement by promoting stewardship of the natural environment and a sustainable, resilient city by developing and facilitating the implementation of watershed and sub-watershed plans, environmental plans, protocols, guidelines, by-laws and other tools to inform and influence the corporation's environmental and city building objectives.

# **Public Works & Environmental Services Department**

## **Solid Waste Services**

### **2019 Service Area Summary**

#### **Description**

Solid Waste Services is responsible for the development, management, and environmentally sound operation of the residential solid waste management system for the City.

This includes:

- Long-term strategic planning of programs and facilities to ensure alignment with future growth and legislative requirements such as: the waste management master plan, service levels reviews and technology and environmental assessments
- Providing services and facilities for the collection, diversion and disposal of residential waste, organics, recycling, and household hazardous waste
- Comprehensive management, operation and maintenance of City-owned landfills

#### **Programs/Services Offered**

- Curbside residential waste collection and disposal
- Multi-residential waste collection and disposal
- Waste collection at City facilities
- Residential waste diversion programs (Green Bin program, Blue/Black Box Program, Household Hazardous Waste depots etc.)
- Landfill operations management



- Parks recycling program
- Yellow Bag program
- Biosolid Land Application program
- Graffiti removal from City assets

# **Public Works & Environmental Services Department**

## **Forestry Services**

### **2019 Service Area Summary**

#### **Description**

Forestry Services manages all aspects of the City's 10,000 hectares of urban and rural forests including 346,000 street and park trees in order to preserve, protect, maintain and enhance forest cover in the Nation's Capital.

#### **Programs/Services Offered**

- Tree and forest maintenance, which includes pruning, removal, stumping, watering and fertilizing activities
- Invasive pest management (ex.: Emerald Ash Borer)
- Infill Tree Conservation program
- Tree nursery operations, which includes tree planting, watering and establishment pruning activities
- Trees in Trust program
- Streetscape, park, and facility tree planting
- Community planting projects
- Commemorative Tree program
- Green Acres - Ottawa's rural reforestation program
- Schoolyard Tree Planting Grant program

City of Ottawa

Standing Committee on Environmental Protection, Water and Waste Management- Operating Resource Requirement

In Thousands (\$000)

	2017	2018		2019	\$ Change over 2018 Budget
	Actual	Forecast	Budget	Estimate	
<b>Expenditures by Program</b>					
Infrastructure Services	25,316	28,704	29,890	31,400	1,510
Resiliency and Natural Systems Policy	1,813	1,411	1,530	1,545	15
Solid Waste Services	74,261	76,743	74,724	77,213	2,489
Forestry Services	18,043	18,477	18,290	18,634	344
<b>Gross Expenditure</b>	<b>119,433</b>	<b>125,335</b>	<b>124,434</b>	<b>128,792</b>	<b>4,358</b>
Recoveries & Allocations	-23,954	-25,953	-25,980	-27,330	-1,350
Revenue	-57,322	-51,258	-51,154	-52,004	-850
<b>Net Requirement</b>	<b>38,157</b>	<b>48,124</b>	<b>47,300</b>	<b>49,458</b>	<b>2,158</b>
<b>Expenditures by Type</b>					
Salaries, Wages & Benefits	43,537	45,752	46,630	48,889	2,259
Overtime	1,405	1,855	1,062	1,078	16
Material & Services	57,406	59,680	60,010	61,535	1,525
Transfers/Grants/Financial Charges	5,400	5,095	5,377	5,377	0
Fleet Costs	9,646	10,743	8,943	9,501	558
Program Facility Costs	0	0	0	0	0
Other Internal Costs	2,039	2,210	2,412	2,412	0
<b>Gross Expenditures</b>	<b>119,433</b>	<b>125,335</b>	<b>124,434</b>	<b>128,792</b>	<b>4,358</b>
Recoveries & Allocations	-23,954	-25,953	-25,980	-27,330	-1,350
<b>Net Expenditure</b>	<b>95,479</b>	<b>99,382</b>	<b>98,454</b>	<b>101,462</b>	<b>3,008</b>
<b>Revenues By Type</b>					
Federal	0	0	0	0	0
Provincial	-6,190	-6,645	-6,129	-5,824	305
Municipal	0	0	0	0	0
Own Funds	0	0	0	0	0
Fees and Services	-51,132	-44,613	-45,025	-46,180	-1,155
Fines	0	0	0	0	0
Other	0	0	0	0	0
<b>Total Revenue</b>	<b>-57,322</b>	<b>-51,258</b>	<b>-51,154</b>	<b>-52,004</b>	<b>-850</b>
<b>Net Requirement</b>	<b>38,157</b>	<b>48,124</b>	<b>47,300</b>	<b>49,458</b>	<b>2,158</b>
<b>Full Time Equivalents</b>			<b>367.13</b>	<b>374.13</b>	<b>7.00</b>

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Infrastructure Services - Operating Resource Requirement  
 In Thousands (\$000)

	2017	2018		2019	\$ Change over 2018 Budget
	Actual	Forecast	Budget	Estimate	
<b>Expenditures by Program</b>					
Director's Office	626	575	608	628	20
Quality Assurance	2,289	2,639	2,886	2,921	35
Combined Sewage Storage Tunnel Project	393	703	160	175	15
Design & Construction - Branch 1	6,215	4,764	4,766	5,116	350
Design & Construction - Branch 2	5,536	7,812	8,139	8,664	525
Asset Management	10,257	12,211	13,331	13,896	565
<b>Gross Expenditure</b>	<b>25,316</b>	<b>28,704</b>	<b>29,890</b>	<b>31,400</b>	<b>1,510</b>
Recoveries & Allocations	-20,101	-22,426	-23,222	-24,572	-1,350
Revenue	16	-15	-39	-39	0
<b>Net Requirement</b>	<b>5,231</b>	<b>6,263</b>	<b>6,629</b>	<b>6,789</b>	<b>160</b>
<b>Expenditures by Type</b>					
Salaries, Wages & Benefits	22,372	24,360	24,857	26,367	1,510
Overtime	177	198	249	249	0
Material & Services	2,674	3,769	3,806	3,806	0
Transfers/Grants/Financial Charges	0	0	0	0	0
Fleet Costs	90	97	97	97	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	3	280	881	881	0
<b>Gross Expenditures</b>	<b>25,316</b>	<b>28,704</b>	<b>29,890</b>	<b>31,400</b>	<b>1,510</b>
Recoveries & Allocations	-20,101	-22,426	-23,222	-24,572	-1,350
<b>Net Expenditure</b>	<b>5,215</b>	<b>6,278</b>	<b>6,668</b>	<b>6,828</b>	<b>160</b>
<b>Revenues By Type</b>					
Federal	0	0	0	0	0
Provincial	0	0	0	0	0
Municipal	0	0	0	0	0
Own Funds	0	0	0	0	0
Fees and Services	16	-15	-39	-39	0
Fines	0	0	0	0	0
Other	0	0	0	0	0
<b>Total Revenue</b>	<b>16</b>	<b>-15</b>	<b>-39</b>	<b>-39</b>	<b>0</b>
<b>Net Requirement</b>	<b>5,231</b>	<b>6,263</b>	<b>6,629</b>	<b>6,789</b>	<b>160</b>
<b>Full Time Equivalents</b>			<b>208.41</b>	<b>215.41</b>	<b>7.00</b>

**City of Ottawa**  
**Planning, Infrastructure & Economic Development Department**  
**Infrastructure Services - User Fees**

	2017 Rate \$	2018 Rate \$	2019 Rate \$	% Change Over 2018	% Change Over 2017	Effective Date	2019 Revenue (\$000)
<b>Road Cut Degradation Fees</b>							
Road Cut Pavement Degradation fees (per square meter)							
2 years or less	35.50	36.20	37.00	2.2%	4.2%	01-Apr-19	
2 to 4 years	29.50	30.10	30.85	2.5%	4.6%	01-Apr-19	
4 to 7 years	23.70	24.20	24.80	2.5%	4.6%	01-Apr-19	
7 to 10 years	14.80	15.10	15.50	2.6%	4.7%	01-Apr-19	
10 years or more	5.90	6.00	6.15	2.5%	4.2%	01-Apr-19	
<b>Contract Manual</b>							
Contract Manual (CD only)	76.70	80.00	82.00	2.5%	6.9%	01-Apr-19	
<b>Guideline Publications</b>							
Guideline Publications (CD only)	76.70	80.00	82.00	2.5%	6.9%	01-Apr-19	
<b>Accident Inspections</b>							
3 hour minimum (hourly rate)	156.10	160.00	164.00	2.5%	5.1%	01-Apr-19	
Any third party charges (cost recovery)	100%	100%	100%	0.0%	0.0%	01-Apr-19	
<b>Transfer of Review</b>							
Transfer of Review Fees are per the Ministry of Environment and Climate Change							
<b>Administration and Overhead Charge</b>							
Applied to the overall cost recovery for any works undertaken for third parties not covered under other agreements, such as developers, school boards, universities or general parties	15%	15%	15%	0.0%	0.0%	01-Apr-19	
<b>Total Departmental</b>							<b>0</b>

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Resiliency and Natural Systems Policy - Operating Resource Requirement  
 In Thousands (\$000)

	2017	2018		2019	\$ Change over 2018 Budget
	Actual	Forecast	Budget	Estimate	
<b>Expenditures by Program</b>					
Resiliency and Natural Systems Policy	1,813	1,411	1,530	1,545	15
<b>Gross Expenditure</b>	<b>1,813</b>	<b>1,411</b>	<b>1,530</b>	<b>1,545</b>	<b>15</b>
Recoveries & Allocations	-86	-13	0	0	0
Revenue	0	0	0	0	0
<b>Net Requirement</b>	<b>1,727</b>	<b>1,398</b>	<b>1,530</b>	<b>1,545</b>	<b>15</b>
<b>Expenditures by Type</b>					
Salaries, Wages & Benefits	1,237	1,303	1,211	1,226	15
Overtime	14	8	11	11	0
Material & Services	192	38	258	258	0
Transfers/Grants/Financial Charges	362	57	50	50	0
Fleet Costs	0	0	0	0	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	8	5	0	0	0
<b>Gross Expenditures</b>	<b>1,813</b>	<b>1,411</b>	<b>1,530</b>	<b>1,545</b>	<b>15</b>
Recoveries & Allocations	-86	-13	0	0	0
<b>Net Expenditure</b>	<b>1,727</b>	<b>1,398</b>	<b>1,530</b>	<b>1,545</b>	<b>15</b>
<b>Revenues By Type</b>					
Federal	0	0	0	0	0
Provincial	0	0	0	0	0
Municipal	0	0	0	0	0
Own Funds	0	0	0	0	0
Fees and Services	0	0	0	0	0
Fines	0	0	0	0	0
Other	0	0	0	0	0
<b>Total Revenue</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Net Requirement</b>	<b>1,727</b>	<b>1,398</b>	<b>1,530</b>	<b>1,545</b>	<b>15</b>
<b>Full Time Equivalents</b>			<b>9.00</b>	<b>9.00</b>	<b>0.00</b>

City of Ottawa  
Public Works and Environmental Services Department  
Solid Waste Services - Operating Resource Requirement  
In Thousands (\$000)

	2017	2018		2019	\$ Change over 2018 Budget
	Actual	Forecast	Budget	Estimate	
<b>Expenditures by Program</b>					
Director's Office	828	752	481	490	9
Diversion/Recycling	41,382	42,774	42,508	44,009	1,501
Graffiti Management	826	968	803	819	16
Soil Management	1,390	436	650	650	0
Landfill Operations/Disposal	8,836	9,801	8,468	8,446	-22
Garbage Collection	14,868	16,125	15,804	16,735	931
Other	384	140	263	317	54
Solid Waste Non Departmental	5,747	5,747	5,747	5,747	0
<b>Gross Expenditure</b>	<b>74,261</b>	<b>76,743</b>	<b>74,724</b>	<b>77,213</b>	<b>2,489</b>
Recoveries & Allocations	-3,612	-3,461	-2,758	-2,758	0
Revenue	-57,073	-50,952	-51,070	-51,920	-850
<b>Net Requirement</b>	<b>13,576</b>	<b>22,330</b>	<b>20,896</b>	<b>22,535</b>	<b>1,639</b>
<b>Expenditures by Type</b>					
Salaries, Wages & Benefits	12,654	12,506	12,784	13,331	547
Overtime	908	1,286	634	647	13
Material & Services	45,405	46,808	46,750	48,275	1,525
Transfers/Grants/Financial Charges	5,033	5,033	5,327	5,327	0
Fleet Costs	8,384	9,364	7,719	8,123	404
Program Facility Costs	0	0	0	0	0
Other Internal Costs	1,877	1,746	1,510	1,510	0
<b>Gross Expenditures</b>	<b>74,261</b>	<b>76,743</b>	<b>74,724</b>	<b>77,213</b>	<b>2,489</b>
Recoveries & Allocations	-3,612	-3,461	-2,758	-2,758	0
<b>Net Expenditure</b>	<b>70,649</b>	<b>73,282</b>	<b>71,966</b>	<b>74,455</b>	<b>2,489</b>
<b>Revenues By Type</b>					
Federal	0	0	0	0	0
Provincial	-6,190	-6,497	-6,129	-5,824	305
Municipal	0	0	0	0	0
Own Funds	0	0	0	0	0
Fees and Services	-50,883	-44,455	-44,941	-46,096	-1,155
Fines	0	0	0	0	0
Other	0	0	0	0	0
<b>Total Revenue</b>	<b>-57,073</b>	<b>-50,952</b>	<b>-51,070</b>	<b>-51,920</b>	<b>-850</b>
<b>Net Requirement</b>	<b>13,576</b>	<b>22,330</b>	<b>20,896</b>	<b>22,535</b>	<b>1,639</b>
<b>Full Time Equivalents</b>			<b>68.40</b>	<b>68.40</b>	<b>0.00</b>

City of Ottawa  
Public Works and Environmental Services Department  
Solid Waste Services - User Fees

	2017 Rate \$	2018 Rate \$	2019 Rate \$	% Change Over 2018	% Change Over 2017	Effective Date	2019 Revenue (\$000)
<b>Solid Waste - User Fees</b>							
Single Family Household	84.00	86.00	88.00	2.3%	4.8%	01-Jan-19	-580
Multi Residential Household	41.00	42.00	43.00	2.4%	4.9%	01-Jan-19	-110
Yellow Bag per bag fee	3.75	3.75	3.90	4.0%	4.0%	01-May-19	
<b>Landfill Operations - Tipping Fees</b>							-35
<b>Waste Materials</b>							
Garbage <=100 kg (minimum)	10.80	11.00	11.20	1.8%	3.7%	01-May-19	
Garbage >100 kg (per tonne)	108.00	110.00	112.00	1.8%	3.7%	01-May-19	
Mixed garbage & recyclable material <=100 kg (minimum)	21.60	22.00	22.40	1.8%	3.7%	01-May-19	
Mixed garbage & recyclable material >100 kg (per tonne)	216.00	220.00	224.00	1.8%	3.7%	01-May-19	
Asbestos <=250 kg per load flat rate (minimum)	119.00	121.00	123.00	1.7%	3.4%	01-May-19	
Asbestos >250 kg (per tonne)	476.00	484.00	494.00	2.1%	3.8%	01-May-19	
<b>Diversion Program - Clean Loads</b>							
Metal /Tires	Free	Free	Free	N/A	N/A		
E-waste	Free	Free	Free	N/A	N/A		
Blue Box Material	Free	Free	Free	N/A	N/A		
Cardboard <=100 kg (minimum)	5.20	5.30	5.40	1.9%	N/A	01-May-19	
Cardboard >100 kg (per tonne)	52.00	53.00	54.00	1.9%	N/A	01-May-19	
Leaf and Yard Waste under 10 cm in diameter <=100 kg (minimum)	5.20	3.75	3.80	1.3%	-26.9%	01-May-19	
Leaf and Yard Waste >100 kg (per tonne)	52.00	37.50	38.00	1.3%	-26.9%	01-May-19	
Soil/Fill <=200 kg (minimum) (Top soil, sand, sod, asphalt, masonry, concrete without rebar)	5.40	5.50	3.20	-41.8%	-40.7%	01-May-19	
Soil/Fill >200 kg (per tonne) (Top soil, sand, sod, asphalt, masonry, concrete without rebar) if generated from an authorized project that is fully or partially funded by the City	27.00	27.50	16.00	-41.8%	-40.7%	01-May-19	
Soil/Fill >200 kg (per tonne) (Top soil, sand, sod, asphalt, masonry, concrete without rebar)	27.00	27.50	27.50	0.0%	1.9%	01-May-19	
Woodchips <=200 kg (minimum)	5.40	5.50	5.60	1.8%	N/A	01-May-19	
Woodchips >200 kg (per tonne)	27.00	27.50	28.00	1.8%	3.7%	01-May-19	



City of Ottawa  
 Public Works and Environmental Services Department  
 Solid Waste Services - User Fees

	2017 Rate \$	2018 Rate \$	2019 Rate \$	% Change Over 2018	% Change Over 2017	Effective Date	2019 Revenue (\$000)
<b>Retail Materials Program</b>							
Municipal Potting Soil <=200 kg (minimum)	7.80	8.00	8.20	2.5%	5.1%	01-May-19	-5
Municipal Potting Soil >200 kg (per tonne)	39.00	40.00	41.00	2.5%	5.1%	01-May-19	
<b>Total Departmental</b>							<b>-730</b>

City of Ottawa  
Public Works & Environmental Services Department  
Forestry Services - Operating Resource Requirement  
In Thousands (\$000)

	2017	2018		2019	\$ Change over 2018 Budget
	Actual	Forecast	Budget	Estimate	
<b>Expenditures by Program</b>					
Forestry Services	18,043	18,477	18,290	18,634	344
<b>Gross Expenditure</b>	<b>18,043</b>	<b>18,477</b>	<b>18,290</b>	<b>18,634</b>	<b>344</b>
Recoveries & Allocations	-155	-53	0	0	0
Revenue	-265	-291	-45	-45	0
<b>Net Requirement</b>	<b>17,623</b>	<b>18,133</b>	<b>18,245</b>	<b>18,589</b>	<b>344</b>
<b>Expenditures by Type</b>					
Salaries, Wages & Benefits	7,274	7,583	7,778	7,965	187
Overtime	306	363	168	171	3
Material & Services	9,135	9,065	9,196	9,196	0
Transfers/Grants/Financial Charges	5	5	0	0	0
Fleet Costs	1,172	1,282	1,127	1,281	154
Program Facility Costs	0	0	0	0	0
Other Internal Costs	151	179	21	21	0
<b>Gross Expenditures</b>	<b>18,043</b>	<b>18,477</b>	<b>18,290</b>	<b>18,634</b>	<b>344</b>
Recoveries & Allocations	-155	-53	0	0	0
<b>Net Expenditure</b>	<b>17,888</b>	<b>18,424</b>	<b>18,290</b>	<b>18,634</b>	<b>344</b>
<b>Revenues By Type</b>					
Federal	0	0	0	0	0
Provincial	0	-148	0	0	0
Municipal	0	0	0	0	0
Own Funds	0	0	0	0	0
Fees and Services	-265	-143	-45	-45	0
Fines	0	0	0	0	0
Other	0	0	0	0	0
<b>Total Revenue</b>	<b>-265</b>	<b>-291</b>	<b>-45</b>	<b>-45</b>	<b>0</b>
<b>Net Requirement</b>	<b>17,623</b>	<b>18,133</b>	<b>18,245</b>	<b>18,589</b>	<b>344</b>
<b>Full Time Equivalents</b>			<b>81.32</b>	<b>81.32</b>	<b>0.00</b>

**City of Ottawa**  
**Public Works & Environmental Services Department**  
**Forestry Services - User Fees**

	2017 Rate \$	2018 Rate \$	2019 Rate \$	% Change Over 2018	% Change Over 2017	Effective Date	2019 Revenue (\$000)
Tree Planting Deposit - Low Rise Housing	700.00	700.00	700.00	0.0%	0.0%		
Establish a permit fee for Distinctive Tree Bylaw 2009-200 part 3 - Small Property Component -- For properties one hectare or less in size, and condominium and multi-residential properties of all sizes, if a landowner wants to remove a tree that is greater than 50 centimetres (20 inches) in diameter, they must obtain a Distinctive Tree Permit from the City.	100.00	100.00	100.00	0.0%	N/A		
Administration and Overhead charge will be applied to the overall cost recovery for any works or accident recoveries undertaken by Forestry Services on behalf of Federal/Provincial governments, Hydro Ottawa, school boards, universities/colleges, municipalities, general persons/parties and developers.	15%	15%	15%	N/A	N/A		
<b>Total Departmental</b>							<b>0</b>

**City Of Ottawa**  
**2019 Draft Capital Budget**  
**Standing Committee on Environmental Protection, Water and Waste Management - Tax**  
**Capital Funding Summary**  
**In Thousands (\$000's)**

Project Description	Revenues	Capital Reserve Fund	Gas Tax	Development Charges	Debt Funding	Total
<b>Environment</b>						
Renewal of City Assets						
908880 Energy Evolution	-	150	-	-	-	150
<b>Renewal of City Assets Total</b>	<b>-</b>	<b>150</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150</b>
<b>Service Enhancement</b>						
909452 Energy Mgmt & Investment Strategy 2019	-	3,000	-	-	-	3,000
<b>Service Enhancement Total</b>	<b>-</b>	<b>3,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,000</b>
<b>Environment Total</b>	<b>-</b>	<b>3,150</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,150</b>
<b>Solid Waste</b>						
<b>Growth</b>						
908686 Solid Waste Fleet Growth - Landfill 2019	-	450	-	-	-	450
<b>Growth Total</b>	<b>-</b>	<b>450</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>450</b>
<b>Regulatory</b>						
907238 Landfill Disposal Stage 2 Capping	-	7,579	-	-	-	7,579
907353 Trail Rd Gas Collection System Expansion	-	1,500	-	-	-	1,500
907799 Landfill Disposal Stage 5 Development	-	1,011	-	-	-	1,011
907815 Trail Road Landfill - Exp & Development	-	750	-	-	-	750
907816 Groundwater Management	-	300	-	-	-	300
909430 Nepean Landfill Cap Repair	-	550	-	-	-	550
907043 Springhill Landfill	2,000	-	-	-	-	2,000
<b>Regulatory Total</b>	<b>2,000</b>	<b>11,690</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,690</b>
<b>Service Enhancement</b>						
909431 Long Term Planning	-	900	-	-	-	900
<b>Service Enhancement Total</b>	<b>-</b>	<b>900</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>900</b>
<b>Solid Waste Total</b>	<b>2,000</b>	<b>13,040</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,040</b>
<b>Total</b>	<b>2,000</b>	<b>16,190</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18,190</b>

City of Ottawa

Standing Committee on Environmental Protection, Water and Waste Management - Operating Resource Requirement Analysis

In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Expenditures by Program</b>								
Infrastructure Services	28,704	29,890	0	715	795	0	31,400	1,510
Resiliency and Natural Systems Policy	1,411	1,530	0	15	0	0	1,545	15
Solid Waste Services	76,743	74,724	0	1,764	725	0	77,213	2,489
Forestry Services	18,477	18,290	0	344	0	0	18,634	344
<b>Gross Expenditure</b>	<b>125,335</b>	<b>124,434</b>	<b>0</b>	<b>2,838</b>	<b>1,520</b>	<b>0</b>	<b>128,792</b>	<b>4,358</b>
Recoveries & Allocations	-25,953	-25,980	0	-555	-795	0	-27,330	-1,350
Revenue	-51,258	-51,154	0	305	-425	-730	-52,004	-850
<b>Net Requirement</b>	<b>48,124</b>	<b>47,300</b>	<b>0</b>	<b>2,588</b>	<b>300</b>	<b>-730</b>	<b>49,458</b>	<b>2,158</b>
<b>Expenditures by Type</b>								
Salaries, Wages & Benefits	45,752	46,630	0	1,324	935	0	48,889	2,259
Overtime	1,855	1,062	0	16	0	0	1,078	16
Material & Services	59,680	60,010	0	940	585	0	61,535	1,525
Transfers/Grants/Financial Charges	5,095	5,377	0	0	0	0	5,377	0
Fleet Costs	10,743	8,943	0	558	0	0	9,501	558
Program Facility Costs	0	0	0	0	0	0	0	0
Other Internal Costs	2,210	2,412	0	0	0	0	2,412	0
<b>Gross Expenditures</b>	<b>125,335</b>	<b>124,434</b>	<b>0</b>	<b>2,838</b>	<b>1,520</b>	<b>0</b>	<b>128,792</b>	<b>4,358</b>
Recoveries & Allocations	-25,953	-25,980	0	-555	-795	0	-27,330	-1,350
<b>Net Expenditure</b>	<b>99,382</b>	<b>98,454</b>	<b>0</b>	<b>2,283</b>	<b>725</b>	<b>0</b>	<b>101,462</b>	<b>3,008</b>
<b>Percent of 2018 Net Expenditure Budget</b>			<b>0.0%</b>	<b>2.3%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>3.1%</b>	

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Revenues By Type</b>								
Federal	0	0	0	0	0	0	0	0
Provincial	-6,645	-6,129	0	305	0	0	-5,824	305
Municipal	0	0	0	0	0	0	0	0
Own Funds	0	0	0	0	0	0	0	0
Fees and Services	-44,613	-45,025	0	0	-425	-730	-46,180	-1,155
Fines	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Revenue</b>	<b>-51,258</b>	<b>-51,154</b>	<b>0</b>	<b>305</b>	<b>-425</b>	<b>-730</b>	<b>-52,004</b>	<b>-850</b>
<b>Percent of 2018 Revenue Budget</b>			<b>0.0%</b>	<b>-0.6%</b>	<b>0.8%</b>	<b>1.4%</b>	<b>1.7%</b>	
<b>Net Requirement</b>	<b>48,124</b>	<b>47,300</b>	<b>0</b>	<b>2,588</b>	<b>300</b>	<b>-730</b>	<b>49,458</b>	<b>2,158</b>
<b>Percent of 2018 Net Requirement Budget</b>			<b>0.0%</b>	<b>5.5%</b>	<b>0.6%</b>	<b>-1.5%</b>	<b>4.6%</b>	
<b>Full Time Equivalent (FTE's)</b>		367.13	0.00	0.00	7.00	0.00	<b>374.13</b>	<b>7.00</b>
<b>Percent of 2018 FTE's</b>			<b>0.0%</b>	<b>0.0%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>1.9%</b>	

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Infrastructure Services - Operating Resource Requirement Analysis  
 In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Expenditures by Program</b>								
Director's Office	575	608	0	20	0	0	628	20
Quality Assurance	2,639	2,886	0	35	0	0	2,921	35
Combined Sewage Storage Tunnel Project	703	160	0	15	0	0	175	15
Design & Construction - Branch 1	4,764	4,766	0	140	210	0	5,116	350
Design & Construction - Branch 2	7,812	8,139	0	275	250	0	8,664	525
Asset Management	12,211	13,331	0	230	335	0	13,896	565
<b>Gross Expenditure</b>	<b>28,704</b>	<b>29,890</b>	<b>0</b>	<b>715</b>	<b>795</b>	<b>0</b>	<b>31,400</b>	<b>1,510</b>
Recoveries & Allocations	-22,426	-23,222	0	-555	-795	0	-24,572	-1,350
Revenue	-15	-39	0	0	0	0	-39	0
<b>Net Requirement</b>	<b>6,263</b>	<b>6,629</b>	<b>0</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>6,789</b>	<b>160</b>
<b>Expenditures by Type</b>								
Salaries, Wages & Benefits	24,360	24,857		715	795	0	26,367	1,510
Overtime	198	249	0	0	0	0	249	0
Material & Services	3,769	3,806	0	0	0	0	3,806	0
Transfers/Grants/Financial Charges	0	0	0	0	0	0	0	0
Fleet Costs	97	97	0	0	0	0	97	0
Program Facility Costs	0	0	0	0	0	0	0	0
Other Internal Costs	280	881	0	0	0	0	881	0
<b>Gross Expenditures</b>	<b>28,704</b>	<b>29,890</b>	<b>0</b>	<b>715</b>	<b>795</b>	<b>0</b>	<b>31,400</b>	<b>1,510</b>
Recoveries & Allocations	-22,426	-23,222	0	-555	-795	0	-24,572	-1,350
<b>Net Expenditure</b>	<b>6,278</b>	<b>6,668</b>	<b>0</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>6,828</b>	<b>160</b>
<b>Percent of 2018 Net Expenditure Budget</b>			<b>0.0%</b>	<b>2.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.4%</b>	

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Infrastructure Services - Operating Resource Requirement Analysis  
 In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Revenues By Type</b>								
Federal	0	0	0	0	0	0	0	0
Provincial	0	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0
Own Funds	0	0	0	0	0	0	0	0
Fees and Services	-15	-39	0	0	0	0	-39	0
Fines	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Revenue</b>	<b>-15</b>	<b>-39</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-39</b>	<b>0</b>
<b>Percent of 2018 Revenue Budget</b>			<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	
<b>Net Requirement</b>	<b>6,263</b>	<b>6,629</b>	<b>0</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>6,789</b>	<b>160</b>
<b>Percent of 2018 Net Requirement Budget</b>			<b>0.0%</b>	<b>2.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.4%</b>	
<b>Full Time Equivalents (FTE's)</b>		208.41	0.00	0.00	7.00	0.00	<b>215.41</b>	<b>7.00</b>
<b>Percent of 2018 FTE's</b>			<b>0.0%</b>	<b>0.0%</b>	<b>3.4%</b>	<b>0.0%</b>	<b>3.4%</b>	



City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Infrastructure Services - Operating Resource Requirement Explanatory Notes  
 In Thousands (\$000)

		Surplus / (Deficit)			
2018 Forecast vs. Budget Variance Explanation		Expense	Revenue	Net	
Expenditure savings largely due to vacancies, partially offset by a shortfall in pavement degradation revenues.		390	-24	366	
<b>Total Surplus / (Deficit)</b>		<b>390</b>	<b>-24</b>	<b>366</b>	
		Increase / (Decrease)			
2019 Pressure Category / Explanation		Expense	Revenue	Net 2019 Changes	FTE Impact
<b>Maintain Services</b>					
All programs include an adjustment for potential 2019 cost of living, increments and benefit adjustments.		715	0	715	0.00
All programs include an adjustment for potential 2019 cost of living, increments and benefit adjustments - offset by recoveries and allocations.		-555	0	-555	0.00
<b>Total Maintain Services</b>		<b>160</b>	<b>0</b>	<b>160</b>	<b>0.00</b>
<b>Growth</b>					
Facilities supporting the delivery of water and sewer services, such as treatment plants, pumping stations and reservoirs, require increased attention. The outcome of an asset management review for these facilities was undertaken and a Senior Engineer position was identified to address gaps in services.		125	0	125	1.00
Facilities supporting the delivery of water and sewer services, such as treatment plants, pumping stations and reservoirs, require increased attention. The outcome of an asset management review for these facilities was undertaken and a Senior Engineer position was identified to address gaps in services. Offset by recoveries and allocations.		-125	0	-125	0.00
Facilities supporting the delivery of water and sewer services, such as treatment plants, pumping stations and reservoirs, require increased attention. The outcome of an asset management review for these facilities was undertaken and an Infrastructure Analyst position was identified to address gaps in services.		110	0	110	1.00

**City of Ottawa**  
**Planning, Infrastructure & Economic Development Department**  
**Infrastructure Services - Operating Resource Requirement Explanatory Notes**  
**In Thousands (\$000)**

2019 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2019 Changes	FTE Impact
<b>Growth continued</b> Facilities supporting the delivery of water and sewer services, such as treatment plants, pumping stations and reservoirs, require increased attention. The outcome of an asset management review for these facilities was undertaken and an Infrastructure Analyst position was identified to address gaps in services. Offset by recoveries and allocations.	-110	0	-110	0.00
There has been a steady increase in the capital program. This has resulted in an increase use of temporary or consultant positions to meet capital delivery expectations. The Senior Project Manager positions are required to deliver capital program in the most cost effective manner.	250	0	250	2.00
There has been a steady increase in the capital program. This has resulted in an increase use of temporary or consultant positions to meet capital delivery expectations. The Senior Project Manager positions are required to deliver capital program in the most cost effective manner. Offset by recoveries and allocations.	-250	0	-250	0.00
There has been a steady increase in the capital program related to city facilities. This has resulted in an increase use of temporary positions to meet capital delivery expectations. The Construction Technician positions are required to deliver capital program in the most cost effective manner.	210	0	210	2.00
There has been a steady increase in the capital program related to city facilities. This has resulted in an increase use of temporary positions to meet capital delivery expectations. The Construction Technician positions are required to deliver capital program in the most cost effective manner. Offset by recoveries and allocations.	-210	0	-210	0.00
Infrastructure Services has implemented a new project management system (vISion) to support the delivery of the city's capital program. A Business Analyst position is required to support the sustainment of this new system.	100	0	100	1.00
Infrastructure Services has implemented a new project management system (vISion) to support the delivery of the city's capital program. A Business Analyst position is required to support the sustainment of this new system. Offset by recoveries and allocations.	-100	0	-100	0.00
<b>Total Growth</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7.00</b>

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Infrastructure Services - Operating Resource Requirement Explanatory Notes  
 In Thousands (\$000)

2019 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2019 Changes	FTE Impact
<b>User Fees &amp; Revenues</b>				
See following user fee schedule for details on the specific rates.	0	0	0	0.00
<b>Total User Fees &amp; Revenues</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>
<b>Total Budget Changes</b>	<b>160</b>	<b>0</b>	<b>160</b>	<b>7.00</b>

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Resiliency and Natural Systems Policy - Operating Resource Requirement Analysis  
 In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Expenditures by Program</b>								
Resiliency and Natural Systems Policy	1,411	1,530	0	15	0	0	1,545	15
<b>Gross Expenditure</b>	<b>1,411</b>	<b>1,530</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>1,545</b>	<b>15</b>
Recoveries & Allocations	-13	0	0	0	0	0	0	0
Revenue	0	0	0	0	0	0	0	0
<b>Net Requirement</b>	<b>1,398</b>	<b>1,530</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>1,545</b>	<b>15</b>
<b>Expenditures by Type</b>								
Salaries, Wages & Benefits	1,303	1,211	0	15	0	0	1,226	15
Overtime	8	11	0	0	0	0	11	0
Material & Services	38	258	0	0	0	0	258	0
Transfers/Grants/Financial Charges	57	50	0	0	0	0	50	0
Fleet Costs	0	0	0	0	0	0	0	0
Program Facility Costs	0	0	0	0	0	0	0	0
Other Internal Costs	5	0	0	0	0	0	0	0
<b>Gross Expenditures</b>	<b>1,411</b>	<b>1,530</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>1,545</b>	<b>15</b>
Recoveries & Allocations	-13	0	0	0	0	0	0	0
<b>Net Expenditure</b>	<b>1,398</b>	<b>1,530</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>1,545</b>	<b>15</b>
<b>Percent of 2018 Net Expenditure Budget</b>			<b>0.0%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.0%</b>	
<b>Revenues By Type</b>								
Federal	0	0	0	0	0	0	0	0
Provincial	0	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0
Own Funds	0	0	0	0	0	0	0	0
Fees and Services	0	0	0	0	0	0	0	0
Fines	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Revenue</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Percent of 2018 Revenue Budget</b>			<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	
<b>Net Requirement</b>	<b>1,398</b>	<b>1,530</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>1,545</b>	<b>15</b>
<b>Percent of 2018 Net Requirement Budget</b>			<b>0.0%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.0%</b>	
<b>Full Time Equivalents (FTE's)</b>		9.00	0.00	0.00	0.00	0.00	<b>9.00</b>	<b>0.00</b>
<b>Percent of 2018 FTE's</b>			<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	

City of Ottawa  
 Planning, Infrastructure & Economic Development Department  
 Resiliency and Natural Systems Policy - Operating Resource Requirement Explanatory Notes  
 In Thousands (\$000)

2018 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)		
	Expense	Revenue	Net
Surplus largely due to delays in work plan initiatives.	132	0	132
<b>Total Surplus / (Deficit)</b>	<b>132</b>	<b>0</b>	<b>132</b>

  

2019 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2019 Changes	FTE Impact
<b>Maintain Services</b> All programs include an adjustment for potential 2019 cost of living, increments and benefit adjustments.	15	0	15	0.00
<b>Total Maintain Services</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>0.00</b>
<b>Total Budget Changes</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>0.00</b>

City of Ottawa  
Public Works and Environmental Services Department  
Solid Waste Services - Operating Resource Requirement Analysis  
In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Expenditures by Program</b>								
Director's Office	752	481	0	9	0	0	490	9
Diversion/Recycling	42,774	42,508	0	1,076	425	0	44,009	1,501
Graffiti Management	968	803	0	16	0	0	819	16
Soil Management	436	650	0	0	0	0	650	0
Landfill Operations/Disposal	9,801	8,468	0	-22	0	0	8,446	-22
Garbage Collection	16,125	15,804	0	631	300	0	16,735	931
Other	140	263	0	54	0	0	317	54
Solid Waste Non Departmental	5,747	5,747	0	0	0	0	5,747	0
<b>Gross Expenditure</b>	<b>76,743</b>	<b>74,724</b>	<b>0</b>	<b>1,764</b>	<b>725</b>	<b>0</b>	<b>77,213</b>	<b>2,489</b>
Recoveries & Allocations	-3,461	-2,758	0	0	0	0	-2,758	0
Revenue	-50,952	-51,070	0	305	-425	-730	-51,920	-850
<b>Net Requirement</b>	<b>22,330</b>	<b>20,896</b>	<b>0</b>	<b>2,069</b>	<b>300</b>	<b>-730</b>	<b>22,535</b>	<b>1,639</b>
<b>Expenditures by Type</b>								
Salaries, Wages & Benefits	12,506	12,784	0	407	140	0	13,331	547
Overtime	1,286	634	0	13	0	0	647	13
Material & Services	46,808	46,750	0	940	585	0	48,275	1,525
Transfers/Grants/Financial Charges	5,033	5,327	0	0	0	0	5,327	0
Fleet Costs	9,364	7,719	0	404	0	0	8,123	404
Program Facility Costs	0	0	0	0	0	0	0	0
Other Internal Costs	1,746	1,510	0	0	0	0	1,510	0
<b>Gross Expenditures</b>	<b>76,743</b>	<b>74,724</b>	<b>0</b>	<b>1,764</b>	<b>725</b>	<b>0</b>	<b>77,213</b>	<b>2,489</b>
Recoveries & Allocations	-3,461	-2,758	0	0	0	0	-2,758	0
<b>Net Expenditure</b>	<b>73,282</b>	<b>71,966</b>	<b>0</b>	<b>1,764</b>	<b>725</b>	<b>0</b>	<b>74,455</b>	<b>2,489</b>
<b>Percent of 2018 Net Expenditure Budget</b>			<b>0.0%</b>	<b>2.5%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>3.5%</b>	

City of Ottawa  
Public Works and Environmental Services Department  
Solid Waste Services - Operating Resource Requirement Analysis  
In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Revenues By Type</b>								
Federal	0	0	0	0	0	0	0	0
Provincial	-6,497	-6,129	0	305	0	0	-5,824	305
Municipal	0	0	0	0	0	0	0	0
Own Funds	0	0	0	0	0	0	0	0
Fees and Services	-44,455	-44,941	0	0	-425	-730	-46,096	-1,155
Fines	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Revenue</b>	<b>-50,952</b>	<b>-51,070</b>	<b>0</b>	<b>305</b>	<b>-425</b>	<b>-730</b>	<b>-51,920</b>	<b>-850</b>
<b>Percent of 2018 Revenue Budget</b>			<b>0.0%</b>	<b>-0.6%</b>	<b>0.8%</b>	<b>1.4%</b>	<b>1.7%</b>	
<b>Net Requirement</b>	<b>22,330</b>	<b>20,896</b>	<b>0</b>	<b>2,069</b>	<b>300</b>	<b>-730</b>	<b>22,535</b>	<b>1,639</b>
<b>Percent of 2018 Net Requirement Budget</b>			<b>0.0%</b>	<b>9.9%</b>	<b>1.4%</b>	<b>-3.5%</b>	<b>7.8%</b>	
<b>Full Time Equivalents (FTE's)</b>		68.40	0.00	0.00	0.00	0.00	<b>68.40</b>	<b>0.00</b>
<b>Percent of 2018 FTE's</b>			<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	

City of Ottawa  
 Public Works and Environmental Services Department  
 Solid Waste Services - Operating Resource Requirement Explanatory Notes  
 In Thousands (\$000)

2018 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)		
	Expense	Revenue	Net
Deficit mainly due to increased Fleet costs for the In House Operations.	-1,316	-118	-1,434
<b>Total Surplus / (Deficit)</b>	<b>-1,316</b>	<b>-118</b>	<b>-1,434</b>

  

2019 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2019 Changes	FTE Impact
<b>Maintain Services</b>				
All programs include an adjustment for potential 2019 cost of living, increments and benefit adjustments.	420	0	420	0.00
Increase in Orgaworld contract due to renegotiation for the introduction of plastic bags in green bins.	625	0	625	0.00
Inflationary increase to curbside and multi res garbage, recycling and green bin collection contracts.	265	0	265	0.00
Inflationary increase to recycling and organics processing contracts.	50	0	50	0.00
Increase in Fleet costs related to inflation on compensation contracts, parts, fuel, contribution to capital reserve and maintenance.	404	0	404	0.00
Decrease in Blue/Black Box Program funding from Resource Productivity & Recovery Authority due to reduction in total funding made available to municipalities.		305	305	0.00
<b>Total Maintain Services</b>	<b>1,764</b>	<b>305</b>	<b>2,069</b>	<b>0.00</b>



City of Ottawa  
 Public Works and Environmental Services Department  
 Solid Waste Services - Operating Resource Requirement Explanatory Notes  
 In Thousands (\$000)

2019 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2019 Changes	FTE Impact
<b>Growth</b>				
Annualization of half year costs approved in 2018 for growth in the In House Operations for Zone 5.	280	0	280	0.00
Increase to curbside and multi res garbage, recycling and green bin collection contracts due to increase in number of households.	445	0	445	0.00
Increase in per household revenues due to the increase in number of households.	0	-425	-425	0.00
<b>Total Growth</b>	<b>725</b>	<b>-425</b>	<b>300</b>	<b>0.00</b>
<b>User Fees &amp; Revenues</b>				
See following user fee schedule for details on the specific rates.	0	-730	-730	0.00
<b>Total User Fees &amp; Revenues</b>	<b>0</b>	<b>-730</b>	<b>-730</b>	<b>0.00</b>
<b>Total Budget Changes</b>	<b>2,489</b>	<b>-850</b>	<b>1,639</b>	<b>0.00</b>

City of Ottawa  
Public Works & Environmental Services Department  
Forestry Services - Operating Resource Requirement Analysis  
In Thousands (\$000)

	2018 Baseline			2019 Adjustments			2019	\$ Change over 2018 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Growth	User Fees & Revenues	Estimate	
<b>Expenditures by Program</b>								
Forestry Services	18,477	18,290	0	344	0	0	18,634	344
<b>Gross Expenditure</b>	<b>18,477</b>	<b>18,290</b>	<b>0</b>	<b>344</b>	<b>0</b>	<b>0</b>	<b>18,634</b>	<b>344</b>
Recoveries & Allocations	-53	0	0	0	0	0	0	0
Revenue	-291	-45	0	0	0	0	-45	0
<b>Net Requirement</b>	<b>18,133</b>	<b>18,245</b>	<b>0</b>	<b>344</b>	<b>0</b>	<b>0</b>	<b>18,589</b>	<b>344</b>
<b>Expenditures by Type</b>								
Salaries, Wages & Benefits	7,583	7,778	0	187	0	0	7,965	187
Overtime	363	168	0	3	0	0	171	3
Material & Services	9,065	9,196	0	0	0	0	9,196	0
Transfers/Grants/Financial Charges	5	0	0	0	0	0	0	0
Fleet Costs	1,282	1,127	0	154	0	0	1,281	154
Program Facility Costs	0	0	0	0	0	0	0	0
Other Internal Costs	179	21	0	0	0	0	21	0
<b>Gross Expenditures</b>	<b>18,477</b>	<b>18,290</b>	<b>0</b>	<b>344</b>	<b>0</b>	<b>0</b>	<b>18,634</b>	<b>344</b>
Recoveries & Allocations	-53	0	0	0	0	0	0	0
<b>Net Expenditure</b>	<b>18,424</b>	<b>18,290</b>	<b>0</b>	<b>344</b>	<b>0</b>	<b>0</b>	<b>18,634</b>	<b>344</b>
<b>Percent of 2018 Net Expenditure Budget</b>			<b>0.0%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.9%</b>	
<b>Revenues By Type</b>								
Federal	0	0	0	0	0	0	0	0
Provincial	-148	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0
Own Funds	0	0	0	0	0	0	0	0
Fees and Services	-143	-45	0	0	0	0	-45	0
Fines	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Revenue</b>	<b>-291</b>	<b>-45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-45</b>	<b>0</b>
<b>Percent of 2018 Revenue Budget</b>			<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	
<b>Net Requirement</b>	<b>18,133</b>	<b>18,245</b>	<b>0</b>	<b>344</b>	<b>0</b>	<b>0</b>	<b>18,589</b>	<b>344</b>
<b>Percent of 2018 Net Requirement Budget</b>			<b>0.0%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.9%</b>	
<b>Full Time Equivalents (FTE's)</b>		81.32	0.00	0.00	0.00	0.00	<b>81.32</b>	<b>0.00</b>
<b>Percent of 2018 FTE's</b>			<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	

City of Ottawa  
Public Works & Environmental Services Department  
Forestry Services - Operating Resource Requirement Explanatory Notes  
In Thousands (\$000)

2018 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)		
	Expense	Revenue	Net
Expenditure deficit mainly due to increased Fleet costs, and surplus revenue due to more cost recovery tree replacements than planned.	-134	246	112
<b>Total Surplus / (Deficit)</b>	<b>-134</b>	<b>246</b>	<b>112</b>

  

2019 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2019 Changes	FTE Impact
<b>Maintain Services</b>				
All programs include an adjustment for potential 2019 cost of living, increments and benefit adjustments.	190	0	190	0.00
Increase in Fleet costs related to inflation on compensation contracts, parts, fuel, contribution to capital reserve and maintenance.	154	0	154	0.00
<b>Total Maintain Services</b>	<b>344</b>	<b>0</b>	<b>344</b>	<b>0.00</b>
<b>User Fees &amp; Revenues</b>				
See following user fee schedule for details on the specific rates.	0	0	0	0.00
<b>Total User Fees &amp; Revenues</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>
<b>Total Budget Changes</b>	<b>344</b>	<b>0</b>	<b>344</b>	<b>0.00</b>

# Capital Budget

City of Ottawa  
 2019 Draft Capital Budget  
 Standing Committee on Environmental Protection, Water and Waste Management-Tax  
 In Thousands (\$000)

Service Area: Environment											
Category	2019 Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Rate Supported Reserves	Develop. Charges	Gas Tax	Debt				
							Tax/ Dedicated	Rate	Develop. Charges	Gas Tax	Total Debt
Renewal of City Assets	150	0	150	0	0	0	0	0	0	0	0
Growth	0	0	0	0	0	0	0	0	0	0	0
Regulatory	0	0	0	0	0	0	0	0	0	0	0
Service Enhancement	3,000	0	3,000	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3,150</b>	<b>0</b>	<b>3,150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Environment**  
**In Thousands (\$000)**

Project Information			Financial Details				
<b>908880</b>	<b>Energy Evolution</b>		<b>Class of Estimate: Not Applicable</b>				
Dept:	Planning, Infrastructure & Economic Development Department	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2019			
<p>In 2019, we will complete the study portion of Energy Evolution. This body of study work will allow us to determine the energy transition actions needed to meet the key goals of Energy Evolution. The most critical goals for this strategy are the prioritization of the use of local renewable energy and meeting our council target of an 80% reduction in greenhouse gas emissions by 2050. In addition to identifying the actions required, the 2019 study portion will prioritize prospective actions in terms of cost effectiveness, scope for emissions reduction and consider the impacts of prospective actions on equity and inclusiveness.</p> <p>Additionally, the Energy Evolution initiative will advance short term actions identified in the study work to date. This includes the 33 actions identified in the first phase of the study and the actions currently being identified in the study's second and final phase. While these actions are good tangible contributors to the meeting of Energy Evolution's long term objectives, they also demonstrate immediate action. Additionally, as foreseen as part of the Energy Evolution strategy, they also have a range of secondary benefits related to economic development, resiliency and social equity and inclusion.</p>			<b>2019 Request</b>	<b>150</b>	Projected Yearend Unspent Bal.		139
			Revenues	0	Debt		
			Tax Supported/ Dedicated	150	Tax Supported/ Dedicated Debt	0	
			Rate Supported	0	Rate Supported Debt	0	
			Develop. Charges	0	Develop. Charges Debt	0	
			Gas Tax	0	Gas Tax Debt	0	
			<b>Forecast</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
			Authority	150	0	0	0
			Spending Plan	289	0	0	0
			FTE's	0	0	0	0
Operating Impact	0	0	0	0			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Environment**  
**In Thousands (\$000)**

Project Information			Financial Details					
<b>909452 Energy Management and Investment Strategy 2019</b>			<b>Class of Estimate: Not Applicable</b>					
Dept:	Recreation, Cultural and Facility Operations Department	Category: Service Enhancement	Ward: CW	Year of Completion: 2022				
<p>The Energy Management Investment strategy will reduce the City's environmental footprint, ensure the City's compliance under the mandate of the 2009 Green Energy Act, and continue the City's leadership role in respect to energy conservation and demand management. The strategy is intended to manage the City's increasing growth in demand for energy through the implementation of various energy conservation measures in City facilities.</p>			<b>2019 Request</b>	<b>3,000</b>	Projected Yearend Unspent Bal.		0	
			Revenues	0	Debt			
			Tax Supported/Dedicated	3,000	Tax Supported/Dedicated Debt	0		
			Rate Supported	0	Rate Supported Debt	0		
			Develop. Charges	0	Develop. Charges Debt	0		
			Gas Tax	0	Gas Tax Debt	0		
			<b>Forecast</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	
			Authority	3,000	3,000	3,000	3,000	
			Spending Plan	3,000	3,000	3,000	3,000	
			FTE's	4	0	0	0	
Operating Impact	0	0	0	0				

City of Ottawa  
 2019 Draft Capital Budget  
 Standing Committee on Environmental Protection, Water and Waste Management-Tax  
 In Thousands (\$000)

Service Area: Solid Waste											
Category	2019 Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Rate Supported Reserves	Develop. Charges	Gas Tax	Debt				
							Tax/ Dedicated	Rate	Develop. Charges	Gas Tax	Total Debt
Renewal of City Assets	0	0	0	0	0	0	0	0	0	0	0
Growth	450	0	450	0	0	0	0	0	0	0	0
Regulatory	13,690	2,000	11,690	0	0	0	0	0	0	0	0
Service Enhancement	900	0	900	0	0	0	0	0	0	0	0
<b>Total</b>	<b>15,040</b>	<b>2,000</b>	<b>13,040</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
 In Thousands (\$000)

Program Information		Financial Details					
<b>Solid Waste Landfill Management</b>		<b>Class of Estimate: Not Applicable</b>					
Dept: Public Works & Environmental Services Department	Category: Regulatory	Ward: Multiple	Year of Completion: Various				
<p>Solid Waste Landfill requires annual maintenance, repair and upgrade to meet regulatory requirements as specified in the Provincial Certificate of Approval. This program consists of landfill capping of various stages, gas collection systems, groundwater containment solutions, cell expansion and other landfill management projects to keep the landfill operating efficiently, effectively and in compliance.</p>		<b>2019 Request</b>	<b>13,140</b>	Projected Yearend Unspent Bal.		0	
		Revenues	2,000	Debt			
		Tax Supported/ Dedicated	11,140	Tax Supported/ Dedicated Debt			0
		Rate Supported	0	Rate Supported Debt			0
		Develop. Charges	0	Develop. Charges Debt			0
		Gas Tax	0	Gas Tax Debt			0
		<b>Forecast</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	
		Authority	13,140	3,784	16,938	750	
		Spending Plan	13,090	4,119	3,784	16,938	
		FTE's	0	0	0	0	
Operating Impact	0	0	0	0			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
**In Thousands (\$000)**

Project(s) within a Program Information			\$000's
<b>907043 Springhill Landfill</b>			<b>Class of Estimate: A) Pre-Tender</b>
			<b>2,000</b>
Category: Regulatory	Ward: CW	Year of Completion: 2021	
<p>Springhill Landfill is a City owned Landfill that has been managed for the last 20 years by R.W. Tomlinson. The MECP (Ministry of the Environment, Conservation and Parks) has identified issues at the Springhill Landfill. City Consultants will be providing advisory services to address all MECP concerns in conjunction with PIED/IS who will provide project management and oversight. These services include landfill remediation and detailed design preparation. The objectives are to contain and correct any land contamination, impacts on the groundwater and wetland, landfill gas and leachate impacts on the environment. The costs are to be invoiced to and fully recovered from R. W. Tomlinson (Springhill Manager)</p>			
<b>907238 Landfill Disposal Stage 2 Capping</b>			<b>Class of Estimate: Not Applicable</b>
			<b>7,579</b>
Category: Regulatory	Ward: CW	Year of Completion: 2020	
<p>"Vertical expansion of the Trail Waste Facility was approved in 2006 as part of an Environmental Assessment (EA) Optimization/Expansion Project. The land filling operation commenced with the vertical expansion of Stage 1 in 2007. Stage 1 cap was completed in 2015/16 and now Stage 2 is being progressively capped. As dictated by the EA, the final cover for Stage 2 is a low permeability geomembrane described conceptually in "Appendix M – Design and Operations Report, Trail Waste Facility Landfill, Optimization/Expansion Project, EA/EPA Document ". Stage 2 is being capped over three years. The 1st phase in being completed in 2018, the next phase will be completed in 2019 and the final phase will be completed in 2020.</p>			
<b>907353 Trail Rd Gas Collection System Expansion</b>			<b>Class of Estimate: A) Pre-Tender</b>
			<b>1,500</b>
Category: Regulatory	Ward: 21	Year of Completion: 2019	
<p>"In accordance with the requirements of the Environmental Protection Act, the City of Ottawa is required to prevent the migration of landfill gas to the environment. To this end, the City installed a landfill gas collection and flaring system at the Trail Waste Facility Stages 1, 2 and the Nepean landfill in the early 1990's. The landfill gas collection system was expanded to Stage 3 and 4 and around the perimeter of the site over the past several years to compliment landfilling activities and mitigate off-site migration. The City continues to operate under a voluntary compliance program with the MECP as a result of exceedence of landfill gas trigger concentrations along the perimeter of the site. Functions associated with the activity include replacement of the temporary perimeter flare, repairs and expansion of the existing gas collection system and installation of a permanent gas collection system on completed portions of Stage 2 and 3 of the Trail Waste Facility.</p>			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
**In Thousands (\$000)**

Project(s) within a Program Information			\$000's
<b>907815 Trail Road Landfill - Expansion &amp; Development 2015</b>			<b>Class of Estimate: C) Planning</b>
			<b>750</b>
Category: Regulatory	Ward: 21	Year of Completion: 2024	
<p>"The Trail Road Landfill operates on a continuous basis for disposal of solid waste material. As such annual reinvestment is required to identify and address operational and safety improvements of the site. Required modifications include Signage and Fencing replacement, material stock pile volume measurements and associated design and operations reports.</p>			
<b>907816 Groundwater Management</b>			<b>Class of Estimate: D) Conceptual</b>
			<b>300</b>
Category: Regulatory	Ward: CW	Year of Completion: 2019	
<p>The City of Ottawa owns and operates the Nepean Ground Water Treatment (NGWT) system located at 3704 Moodie Drive. In 2006 the facility was installed to mitigate contaminated ground water migration to adjacent lands west of the closed Nepean Landfill. The facility consist of 6 extraction wells coupled to a mechanical air stripping treatment system designed to remove volatile organic compounds and discharge treated effluent to an adjacent surface water pond located on the closed Nepean Landfill site. A 2016 rehabilitation project(see NGWT Purge Well Rehabilitation Project ESD-SWS-0010) identified widespread infrastructure and electrical failure. As a result the City with Dillon completed a Remedial Options Analysis and In-Situ Chemical Treatment pilot, met with the MECP and is moving forward with an alternative strategy to manage groundwater compliance. The Class D capital cost estimate for the Chemical treatment is \$144,000 and Phytoremediation is \$85,000 for a total of \$229,000 in 2019.</p>			
<b>907799 Landfill Disposal Stage 5 Development</b>			<b>Class of Estimate: C) Planning</b>
			<b>1,011</b>
Category: Regulatory	Ward: 21	Year of Completion: 2024	
<p>Stage 5 of the Trail Waste Facility is a new cell approved by the MECP in the 2005 Trail Waste Facility Optimization EA. A leachate liner must be installed over one half of Stage 5 (5a) by 2025 to support ongoing waste management requirements at Trail. To develop this stage a leachate liner must be designed, the site excavated and liner installed. It is expected the engineering aspects of this work will commence in 2019 to approve any variance from the proposed EA design.</p>			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
 In Thousands (\$000)

Program Information		Financial Details					
<b>Solid Waste Facilities</b>		<b>Class of Estimate: Not Applicable</b>					
Dept: Public Works & Environmental Services Department	Category: Regulatory	Ward: Multiple	Year of Completion: Various				
Solid Waste Landfill buildings and disposal processing facilities require annual maintenance, repair and upgrade to meet regulatory requirements as specified in the Provincial Certificate of Approval.		<b>2019 Request</b>	<b>550</b>	Projected Yearend Unspent Bal.		0	
		Revenues	0	Debt			
		Tax Supported/ Dedicated	550	Tax Supported/ Dedicated Debt			0
		Rate Supported	0	Rate Supported Debt			0
		Develop. Charges	0	Develop. Charges Debt			0
		Gas Tax	0	Gas Tax Debt			0
		<b>Forecast</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	
		Authority	550	0	0	0	
		Spending Plan	550	0	0	0	
		FTE's	0	0	0	0	
Operating Impact	0	0	0	0			

**City of Ottawa  
2019 Draft Capital Budget**

In Thousands (\$000)

Project(s) within a Program Information			\$000's
<b>909430</b>	<b>Nepean Landfill Cap Repair</b>	<b>Class of Estimate: Not Applicable</b>	<b>550</b>
Category: Regulatory	Ward: 21	Year of Completion: 2023	
<p>The Nepean Landfill was capped with a final geomembrane cover in 1993. Some areas under the cap have settled and created stormwater drainage issues. The project is to repair these sections and bring the cap back into compliance with the ECA Requirements.</p>			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
 In Thousands (\$000)

Program Information		Financial Details					
<b>Solid Waste Fleet</b>		<b>Class of Estimate: Not Applicable</b>					
Dept: Public Works & Environmental Services Department	Category: Growth	Ward: Multiple	Year of Completion: Various				
<p>Solid Waste Fleet requires growth to meet the expanding needs of the City's service areas. As the City grows, Solid Waste realizes expanding house counts, increased tonnages and increase kilometres.</p>		<b>2019 Request</b>	<b>450</b>	Projected Yearend Unspent Bal.		0	
		Revenues	0	Debt			
		Tax Supported/ Dedicated	450	Tax Supported/ Dedicated Debt			0
		Rate Supported	0	Rate Supported Debt			0
		Develop. Charges	0	Develop. Charges Debt			0
		Gas Tax	0	Gas Tax Debt			0
		<b>Forecast</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	
		Authority	450	0	0	0	
		Spending Plan	450	0	0	0	
		FTE's	0	0	0	0	
Operating Impact	84	0	0	0			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
**In Thousands (\$000)**

Project(s) within a Program Information			\$000's
<b>908686 Solid Waste Fleet Growth - Landfill 2019</b>		<b>Class of Estimate: Not Applicable</b>	
Category: Growth	Ward: 21	Year of Completion: 2022	
<p>Solid Waste is requesting 2019 fleet capital to purchase equipment at Trail Road. This equipment is required to support the Trail Road Landfill annual and long term need for processing cover materials and contaminated soils. The 2019 request will be part of the Fleet report to council and will include the following vehicles for Solid Waste:</p> <ul style="list-style-type: none"> <li>Hooklift truck - \$285K</li> <li>Pickup Truck, 1 ton, (extreme duty truck) - \$67K</li> <li>Pickup Truck, 1 ton - \$58K</li> <li>Pickup Truck, ½ ton - \$40K</li> <li>Backhoe - \$62K</li> </ul>			

**City of Ottawa**  
**2019 Draft Capital Budget**  
**Service Area: Solid Waste**  
 In Thousands (\$000)

Program Information		Financial Details				
<b>Solid Waste Studies-Strategic</b>		<b>Class of Estimate: Not Applicable</b>				
Dept: Environmental Services	Category: Service Enhancement	Ward: Multiple	Year of Completion: Various			
Planning and managing the development, implementation, evaluation and enhancement of the City's long-term Solid Waste plans and related policies, projects and services.		<b>2019 Request</b>	<b>900</b>	Projected Yearend Unspent Bal.	0	
		Revenues	0	Debt		
		Tax Supported/ Dedicated	900	Tax Supported/ Dedicated Debt	0	
		Rate Supported	0	Rate Supported Debt	0	
		Develop. Charges	0	Develop. Charges Debt	0	
		Gas Tax	0	Gas Tax Debt	0	
		<b>Forecast</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
		Authority	900	0	0	0
		Spending Plan	500	400	0	0
		FTE's	0	0	0	0
Operating Impact	0	0	0	0		



**City of Ottawa  
2019 Draft Capital Budget**

In Thousands (\$000)

Project(s) within a Program Information			\$000's
<b>909431</b>	<b>Long Term Planning</b>	<b>Class of Estimate: Not Applicable</b>	<b>900</b>
Category: Service Enhancement	Ward: 21	Year of Completion: 2023	
<p>Planning and managing the development, implementation, evaluation and enhancement of the City's long-term Solid Waste plans and related policies, programs, services and projects that will guide the management of recyclables and garbage over the next thirty years. Beginning in 2019, planning and reviews will begin on the Solid Waste Master Plan, the waste collection contracts, recycling pilot projects and other waste management and diversion priorities.</p>			

City of Ottawa  
2019 Draft Capital Budget  
Standing Committee on Environmental Protection, Water and Waste Management - Tax  
Capital Forecast Summary  
In Thousands (000's)

Project Description	2019	2020	2021	2022	Total
<b>Environment</b>					
<b>Renewal of City Assets</b>					
908880 Energy Evolution	150	-	-	-	150
<b>Renewal of City Assets Total</b>	<b>150</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150</b>
<b>Service Enhancement</b>					
909452 Energy Mgmt & Investment Strategy 2019	3,000	3,000	3,000	3,000	12,000
<b>Service Enhancement Total</b>	<b>3,000</b>	<b>3,000</b>	<b>3,000</b>	<b>3,000</b>	<b>12,000</b>
<b>Environment Total</b>	<b>3,150</b>	<b>3,000</b>	<b>3,000</b>	<b>3,000</b>	<b>12,150</b>
<b>Solid Waste</b>					
<b>Growth</b>					
908686 Solid Waste Fleet Growth - Landfill 2019	450	-	-	-	450
<b>Growth Total</b>	<b>450</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>450</b>
<b>Regulatory</b>					
907238 Landfill Disposal Stage 2 Capping	7,579	-	-	-	7,579
907353 Trail Rd Gas Collection System Expansion	1,500	500	500	500	3,000
907799 Landfill Disposal Stage 5 Development	1,011	3,034	16,188	-	20,233
907815 Trail Road Landfill - Exp & Development	750	250	250	250	1,500
907816 Groundwater Management	300	-	-	-	300
909399 Trail Road Landfill Cap Repair	-	1,000	-	-	1,000
909430 Nepean Landfill Cap Repair	550	-	-	-	550
907043 Springhill Landfill	2,000	-	-	-	2,000
<b>Regulatory Total</b>	<b>13,690</b>	<b>4,784</b>	<b>16,938</b>	<b>750</b>	<b>36,162</b>
<b>Renewal of City Assets</b>					
907611 Trail Road Stormwater Ponds and Ditches	-	250	-	-	250
907614 Barnsdale Base Preparation	-	600	600	600	1,800
<b>Renewal of City Assets Total</b>	<b>-</b>	<b>850</b>	<b>600</b>	<b>600</b>	<b>2,050</b>
<b>Service Enhancement</b>					
906167 Leachate Treatment Facility	-	12,450	-	-	12,450
909431 Long Term Planning	900	-	-	-	900
<b>Service Enhancement Total</b>	<b>900</b>	<b>12,450</b>	<b>-</b>	<b>-</b>	<b>13,350</b>
<b>Solid Waste Total</b>	<b>15,040</b>	<b>18,084</b>	<b>17,538</b>	<b>1,350</b>	<b>52,012</b>
<b>Grand Total</b>	<b>18,190</b>	<b>21,084</b>	<b>20,538</b>	<b>4,350</b>	<b>64,162</b>

**City of Ottawa**  
**Standing Committee on Environmental Protection, Water and Waste Management - Tax**  
**Capital Works-In-Progress**

Project Description	Total Authority	Total Expenditures as of September 30th, 2018	Unspent Cash Balance as of September 30th, 2018	Total Contractual Obligations	Unspent/ Uncommitted Balance as of September 30th, 2018
<b>Environment</b>					
<b>Renewal of City Assets</b>					
908880 Energy Evolution	170,450	31,571	138,879	140,363	(1,484)
<b>Renewal of City Assets Total</b>	<b>170,450</b>	<b>31,571</b>	<b>138,879</b>	<b>140,363</b>	<b>(1,484)</b>
<b>Service Enhancement</b>					
905937 2016 Rural Area Acquisitions	1,160,000	543,275	616,725	11,153	605,572
906381 AQCCMP Implementation	344,500	46,987	297,513	-	297,513
907516 S37 Nepean/Metcalf Streetscaping Proj.	754,300	672,284	82,016	81,993	22
907985 Energy Management & Invest. Strategy SI	4,000,000	2,760,959	1,239,041	1,314,646	(75,605)
908017 Green Fleet - 2016	1,222,000	403,039	818,961	88,242	730,719
908881 Canada 150 Maple Grove	30,600	-	30,600	16,684	13,916
908894 2018 Natural Area Acquisitions (Rural)	340,000	107	339,893	-	339,893
909109 2018 Natural Area Acquisitions (Urban)	240,000	-	240,000	-	240,000
909139 AQCCMP National Disaster Mitigation Prog	30,500	23,272	7,228	2,646	4,583
909151 Community Energy Initiatives	500,000	-	500,000	-	500,000
909255 Renewable Energy Transition Projects	633,000	-	633,000	-	633,000
<b>Service Enhancement Total</b>	<b>9,254,900</b>	<b>4,449,922</b>	<b>4,804,978</b>	<b>1,515,364</b>	<b>3,289,613</b>
<b>Regulatory</b>					
908869 Green Fleet	500,000	-	500,000	-	500,000
<b>Regulatory Total</b>	<b>500,000</b>	<b>-</b>	<b>500,000</b>	<b>-</b>	<b>500,000</b>
<b>Environment Total</b>	<b>9,925,350</b>	<b>4,481,493</b>	<b>5,443,857</b>	<b>1,655,727</b>	<b>3,788,130</b>
<b>Solid Waste</b>					
<b>Renewal of City Assets</b>					
906535 Bin Collection Conversion	950,000	811,115	138,885	26,763	112,122
907611 Trail Road Stormwater Ponds and Ditches	250,000	-	250,000	-	250,000
907613 Small Load Expansion	300,000	-	300,000	-	300,000
907614 Barnsdale Base Preparation	700,000	14,480	685,520	-	685,520
908013 Trail Road Scalehouse Rehabilitation	1,999,856	303,899	1,695,957	102,881	1,593,076

**City of Ottawa**  
**Standing Committee on Environmental Protection, Water and Waste Management - Tax**  
**Capital Works-In-Progress**

Project Description	Total Authority	Total Expenditures as of September 30th, 2018	Unspent Cash Balance as of September 30th, 2018	Total Contractual Obligations	Unspent/ Uncommitted Balance as of September 30th, 2018
<b>Renewal of City Assets Total</b>	<b>4,199,856</b>	<b>1,129,494</b>	<b>3,070,362</b>	<b>129,644</b>	<b>2,940,717</b>
Growth					
908685 Solid Waste Fleet Growth - Landfill	1,350,000	1,180,955	169,045	-	169,045
<b>Growth Total</b>	<b>1,350,000</b>	<b>1,180,955</b>	<b>169,045</b>	<b>-</b>	<b>169,045</b>
Service Enhancement					
907354 Solid Waste Business Technology	1,500,000	65,096	1,434,904	-	1,434,904
908011 Ottawa Waste Plan Implementation	800,000	117,522	682,478	58,603	623,875
908012 Processing & Disposal Technology Review	600,000	-	600,000	-	600,000
<b>Service Enhancement Total</b>	<b>2,900,000</b>	<b>182,618</b>	<b>2,717,382</b>	<b>58,603</b>	<b>2,658,779</b>
Regulatory					
906167 Leachate Treatment Facility	12,500,000	5,583,849	6,916,151	1,406,112	5,510,039
907004 Landfill Disposal Stage 1 Capping	14,565,000	8,333,656	6,231,344	364,796	5,866,547
907238 Landfill Disposal Stage 2 Capping	8,579,000	881,715	7,697,285	4,102,725	3,594,560
907353 Trail Rd Gas Collection System Expansion	3,500,000	2,972,658	527,342	984,544	(457,202)
907798 Nepean Landfill Gas Collection Rehab	120,000	-	120,000	-	120,000
907815 Trail Road Landfill - Exp & Development	750,000	345,279	404,721	160,757	243,964
907816 Groundwater Management	1,050,000	696,674	353,326	171,827	181,499
<b>Regulatory Total</b>	<b>41,064,000</b>	<b>18,813,832</b>	<b>22,250,168</b>	<b>7,190,761</b>	<b>15,059,408</b>
<b>Solid Waste Total</b>	<b>49,513,856</b>	<b>21,306,899</b>	<b>28,206,957</b>	<b>7,379,008</b>	<b>20,827,949</b>
<b>Grand Total</b>	<b>59,439,206</b>	<b>25,788,392</b>	<b>33,650,814</b>	<b>9,034,735</b>	<b>24,616,079</b>