



## Corporate Report

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**Report from** Financial Management Services, Accounting

**Date of Report:** March 1, 2016

**Date of Meeting:** March 21, 2016

**Report Number:** FMS-069-2016

**File:** 18.45.254

**Subject:** 2016 Water and Wastewater Budget and Associated Rates

### Recommendation

That the report from the Financial Management Services Department – Accounting dated Mar 1, 2016 regarding the 2016 Water and Wastewater Budget and Associated Rates be referred to City Council for consideration after the Public Meeting scheduled for April 4, 2016 for which notice will be duly given.

### Staff Recommendation

That the 2016 Water and Wastewater Budget in Appendix “1a” of the report from the Financial Management Services Department, Accounting dated March 1, 2016 be approved; and that the City Solicitor be directed to prepare the necessary by-laws. FORTHWITH

### Report

The Water and Wastewater Budget is fully funded by user rates with no reliance on property taxes. The water and wastewater rates fund both operating and capital expenditures. This report seeks approval for the 2016 Water and Wastewater budget and associated rates. The report is organized with the following sections:

- 1) Proposed Rates
- 2) Fixed Costs
- 3) Sustainable Funding of Infrastructure:
  - (a) Watermain Replacement
  - (b) Sanitary Sewer Replacement
- 4) Regional costs: (a) Regional Water (b) Regional Wastewater
- 5) Automated Meter Reading (AMR) Project
- 6) Forecasting Water Volume
- 7) Financial Stability of the Wastewater system

### **1) 2016 Water and Wastewater Proposed Rates**

#### **General Rate Structure**

The City’s current water and wastewater rate structure is a combination of fixed and volumetric charges. Each customer account is charged a fixed rate for water and for wastewater. In addition, the customer is billed volumetric rates for water and wastewater based on the amount of water used.

## Recommended Water and Wastewater Rates

For 2016, staff is proposing that there be no increases to the water or wastewater rates, neither fixed or variable rates. Staff recommend that effective April 1, 2016, the rate structure for recovering water and wastewater costs be the following:

	2015	2016
<b>Water</b>		
<b>Fixed (annual)</b>	\$150	\$150
<b>Volumetric (per cm)</b>	\$1.199	\$1.199
<b>Wastewater</b>		
<b>Fixed (annual)</b>	\$87	\$87
<b>Volumetric (per cm)</b>	\$1.826	\$1.826

For further details on the calculations, see the Appendix 1.

Staff is recommending that the water certificate fees be increased from \$30 to \$40 in 2016. Details of comparator municipalities is attached in appendix 2.

## 2) The Fixed Charge – Water and Wastewater

In the City's current water and wastewater rate structure the fixed charge is defined to be cost of the City's annual replacement programs and fixed Regional charges. For each of the systems these costs are calculated to be:

	Water Budget	Wastewater Budget
Improvement program	\$5,500,000	\$2,075,000
Debt Charges	957,099	913,271
Total City Fixed Charges	\$6,457,099	\$2,988,271
Regional Fixed Charges	2,838,202	19,488,520
Total Fixed Costs	\$9,295,121	\$22,476,791
Calculation of Recovery Rates		
Based on 42,450 customers	\$219	\$529
<b>2016 Proposed Rates</b>	<b>\$150</b>	<b>\$87</b>
2015 Rates	\$150	\$87

As the chart indicates, the calculated fixed component of the City's rate structure should be \$219 for Water and \$529 Wastewater. While staff does not propose that the 2016 fixed rates be increased in one year to fully recover these costs, increases over time are should be considered.

### **3) Sustainable Funding of Infrastructure**

The proposed 2016 Water and Wastewater budgets contain the following levels funding for watermain and sanitary sewer infrastructure replacement:

#### **a) Watermain Replacement Program**

The total length of watermain under the City's jurisdiction is approximately 615 km. The estimated replacement value in 2016 dollars is \$480 million.

Assuming an average service life of 50 years for the entire system, the annual cost for watermain replacement should be 2% of the total replacement cost of the whole system, or \$9.6 million to maintain a sustainable watermain distribution system.

An aggressive replacement program is required to reduce the annual number of watermain breaks. The number of watermain breaks can fluctuate significantly from year to year – 2015 saw 120 breaks, 2014 saw 122 breaks while in the previous two years the number was slightly above 100.

The proposed 2016 water budget includes \$5,500,000 for the replacement of watermains. The 2016 program will replace approximately 5.5 km of watermain. The proposed program does not include the construction of any new sections or the abandonment of any redundant sections. To achieve sustainability, the watermain replacement program should be replacing 12.3 km of watermain annually at a cost of \$9.6 million.

Watermain replacement is prioritized based on a number of criteria with the primary consideration being the previous number of breaks on a particular section. In addition, Council has directed that each year's water budget include an allocation of at least \$750,000 for the replacement of watermains in areas experiencing coloured water problems.

In 2016, \$3,564,000 is proposed to be spent on replacement of old and deteriorated cast iron watermains which are usually the cause of coloured in the system. Other factors used to prioritize the program include upgrading undersized mains and installing new mains to fill in "missing links" to improve the system integrity and increase fire flow protection. Co-ordination with other proposed road or sewer work can also accelerate the replacement of certain mains.

#### **b) Sanitary Sewer Replacement Program**

The City currently has 571 km of combined and sanitary sewers. The estimated replacement value of these sewers in 2016 dollars is \$371.4 million. A request for funding has been submitted to the Region of Niagara under their Combined Sewer Overflow (CSO) Control Policy Funding Program. Should the application prove successful, the Region will contribute \$17,500 toward the 2016 Extraneous Flow Elimination project. As a result the gross proposed 2016 Sewer Improvement Program Budget amounts to \$2,092,500. The budget allows for the replacement or rehabilitation of approximately 1,405 lineal metres of sanitary sewer.

The combined sewers allow rainwater to enter into the sanitary sewer system. In 2015, the Region supplied the City with approximately 14.8 million cubic metres of potable water and treated 18.8 million cubic metres of wastewater. The City's regional wastewater cost is not only influenced by the amount of water used but also the amount of precipitation the City receives in the year.

#### 4) Regional costs

The City and Region are each responsible for various aspects of water. The Region is responsible for supply and treatment including all reservoirs and water towers. In general, watermains sixteen inches (400 mm) or larger are a Regional responsibility and the City is responsible for the smaller distribution watermains. There is also a shared responsibility for collection and treatment of wastewater between the City and the Region. The Region is responsible for treatment facilities, pumping stations, sludge disposal and sewers with flows of six cubic feet per second or greater or sewers spanning a municipal boundary. The City is responsible for the remaining wastewater pipelines.

In effect the Region is the service provider to the City, supplying potable water and treatment of wastewater. The cost to provide the service to lower tier municipalities is part of the Region's budget and each municipality is charged their respective portion.

#### **Determination of St. Catharines' share of the Regional Costs**

The calculation of each municipality's share is dependent upon the municipality's usage of each system (i.e. cubic metre of water purchased or cubic metre of wastewater treated). This means St. Catharines' share of the total budget will change over time with our water and wastewater flows.

##### **a) Regional Water Rates**

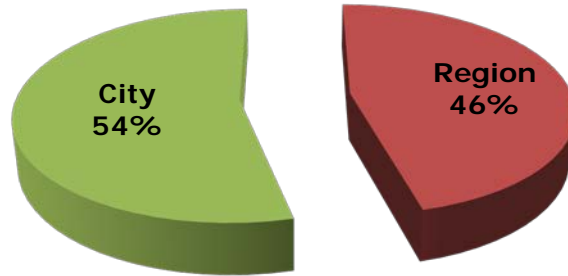
The Region charges the lower tier municipalities for the supply of potable water using both a fixed monthly charge and a variable rate per cubic metre. The rates for 2016 (with comparable 2015 rates) are as follows:

<b>Water</b>	<b>2016</b>	<b>2015</b>	<b>% increase (decrease)</b>
<b>Variable rate per cm</b>	\$0.554	\$0.537	3.17%
<b>Fixed Monthly Charge</b>	\$236,517	\$241,129	(1.95%)

The above rates result in the City's 2016 draft Water budget including Regional costs of \$11,037,402, an increase of \$196,252 (1.81%) from 2015. As \$8,199,200 of these costs are related to the variable rate, this provides some protection to the City should our water

consumption decline in 2016. The fixed annual charge of \$2,838,202 will be payable to the Region regardless of our water consumption.

### Water Budget Summary of Expenditures



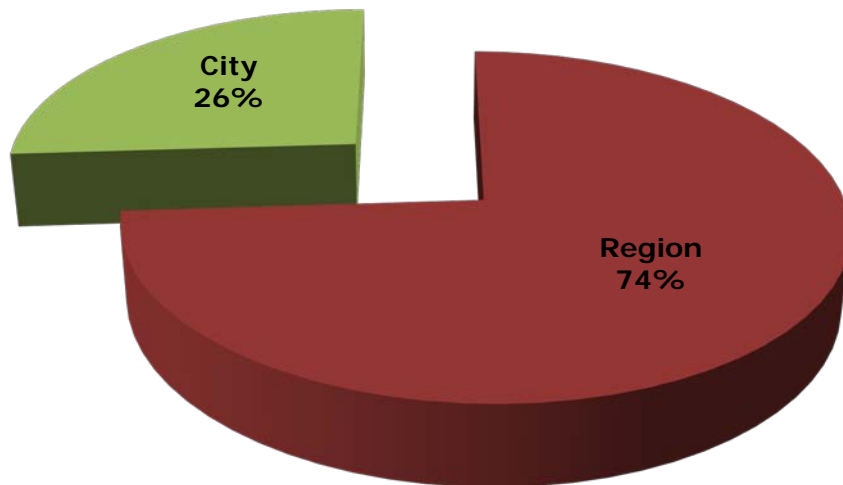
#### b) Regional Wastewater Rates

The Regional wastewater charges contain no variable rates. The rates for 2016 (with comparable 2015 rates) are as follows:

Wastewater	2016	2015	% decrease
<b>Fixed Monthly Charge</b>	\$1,624,043	\$1,643,697	1.20%

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### Wastewater Budget Summary of Expenditures



## 2016 Water and Waste Water Summary of Expenditures

Expenditure	Water		Wastewater	
City Costs	\$6,439,234	26.90%	\$3,740,203	14.24%
Water/Sewer Improvement Program	5,500,000	22.98%	2,075,000	7.90%
City Debentures	957,099	4.00%	913,271	3.48%
Capital Out of Revenue			49,000	0.19%
Region	11,037,402	46.12%	19,488,520	74.19%
<b>Total</b>	<b>\$23,933,735</b>	<b>100%</b>	<b>\$26,265,994</b>	<b>100%</b>
Region Controlled Costs	\$11,037,402	46.12%	\$19,488,520	74.19%
City Controlled Costs	12,896,333	53.88%	6,777,474	25.81%
<b>Total</b>	<b>\$23,933,735</b>	<b>100%</b>	<b>\$26,265,994</b>	<b>100%</b>

### 5) Automated Meter Reading (AMR) Project

The City has been installing new automated water meters in residential properties since August 2014. The City's new AMR program uses wireless technology to automatically collect water consumptions, diagnostic and status data from the City's water meters and automatically transfers that data to a database for billing, troubleshooting and analysing. The battery operated AMR transmitter is wired directly to the water meter inside the home and wirelessly communicates with mobile reading equipment installed in City owned meter reading vehicles. The AMR transmitter sends wireless signals to the mobile reading equipment three times per year currently and operates on Industry Canada licensed 900 MHz spectrum. These transmissions last for less than 1/8<sup>th</sup> of a second at power levels less than 2 watts.

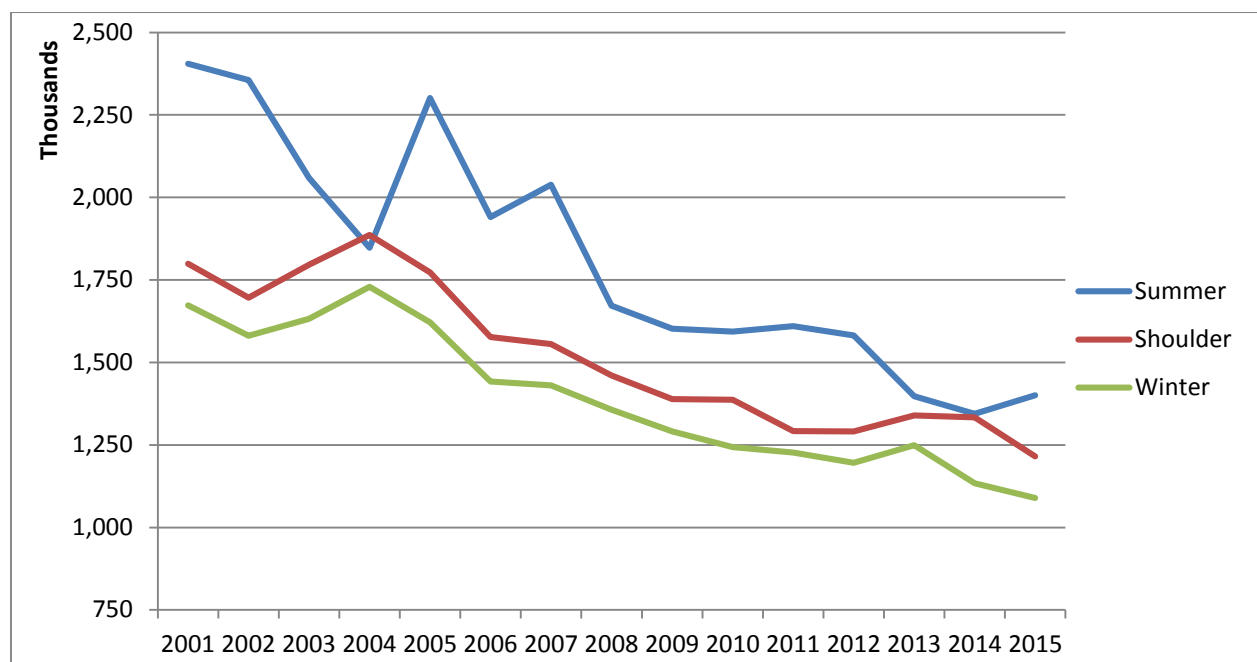
To date 18,794 water meters have been upgraded to the AMR technology to the end of February 2016. There are 42,121 meters to be updated. There will be additional sections completed during 2016. The entire upgrade project is expected to be completed by the end of 2019.

## 6) Forecasting Water Volumes

An analysis of water purchases over the last 17 years has shown conservation efforts by St Catharines water customers have resulted in a significant reduction in cubic metres of water purchased from the Region. Since 1999 annual water purchases have decreased 46% from 27,599,000 cubic metres annually to 14,820,000 cubic metres in 2015. From 2007 to 2015 alone the decrease was 5.28 million cubic metres (26.2%). Each year staff review past history of water purchase volume and utilize that information to forecast what future volumes will be.

Over the past several years there has been concern as to the determination of how much further the volumes can decline. In effect, are we nearing the end of volume decreases, or is there a significant decline still to come? In the process of this estimation, staff analysed the water purchased based on three separate “seasons” of the year: **summer** - June to September; **winter** – November to February; **“shoulder” months** – March to May and October.

The following graph depicts the decline in purchases during these “seasons” since 2001:



The chart clearly depicts the average monthly summer consumption (the blue or top line) as the most volatile line. It fluctuates significantly each year. This fluctuation appears to have rebounded some in the summer months of the last year. This provides additional support to the consumption levelling or reaching its bottom. The summer monthly consumption is still higher than either of the other two “seasons” but is no longer as volatile. The summers of 2009, 2010, 2011 and 2013 were some of the more rainy summers in recent history. However, when the hot dry summer of 2012 occurred, the

consumption did not rebound. The drier summer of 2015 did see the consumption rebound some. The winter and “shoulder” seasons show consumption patterns that move fairly consistently together, with the shoulder months slightly higher.

This increase in the winter of 2013 is attributed to a large watermain break in January, 2013. Reviewing 2015 water purchases, it appears that water consumption may be levelling off. In 2015, the City purchased 14.82 million cubic meters and in 2014 purchased 15.2 million cubic meters. Consumption is definitely not declining at the same rate today as it did nine or ten years ago. Staff expect consumption for 2016 to remain very similar to 2015 at 14.8 million cubic meters

## **7) Financial Stability of the Wastewater System**

A significant portion of the costs of the wastewater system are fixed. While the wastewater rates include a fixed portion, the majority of the revenue is collected through a variable rate based on water purchased by the customer.

When the majority of a rate structure consists of a variable rate, periods of declining consumption result in the reduction of overall revenue. Consequently, the revenue generated does not cover the costs of the system. In the past couple of years, this trend has changing. In both 2014 and 2015 the wastewater system ended the year with positive position.

The net results by year are as follows:

<b>In millions of \$</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>	<b>2009</b>
<b>Revenue</b>	\$25.71	\$25.80	\$24.86	\$25.32	\$23.46	\$22.50	\$20.12
<b>Expenditures</b>	\$25.18	\$25.53	\$25.07	\$25.25	\$24.00	\$23.35	\$21.65
<b>Recovery/ (Loss)</b>	<u>\$0.53</u>	<u>\$0.27</u>	<u>(\$0.21)</u>	<u>\$0.07</u>	<u>(\$0.54)</u>	<u>(\$0.85)</u>	<u>(\$1.53)</u>

The positive results the last couple of years has assisted in reducing the accumulated deficit of \$2.4 million at the end of 2014 to \$1.87 million at the end of 2015. In effect, the water rates have been subsidizing the operations of the wastewater system. While many of our customers have both water and wastewater charges on their bills, there are customers that do not.

As per guidelines from the Province rates should be structured so that both systems maintain their own financial stability through separate rates, it is necessary for our rates to be structured to eliminate this deficit. This will be achieved over time by focusing rate adjustments on the wastewater rates.

To eliminate this deficit in 2016 would require a significant increase in wastewater rates. Wastewater fixed rates were increased by \$3.00 in 2015 from \$84.00 to \$87.00 annually.



Staff did not recommend an increase in the fixed wastewater rates in 2016, as there was a positive result at the end of 2015 and the wastewater system accumulative deficit was reduced by \$0.53 million in 2015. Therefore, on an annual basis staff will monitor this deficit will objective to significantly reduce or eliminate over the next 5 to 10 years. Where possible, the increase in wastewater rates will be coupled with smaller water rates increases, thereby adjusting the rates so that wastewater rates fully fund the wastewater system.

### **Financial Implications**

The proposed 2016 water and wastewater rates result in no increase to water or wastewater rates. For the average ratepayer (at annual consumption levels of 174 cubic metres) they will pay \$763.35 annually. This is the same as they paid in 2015. During 2016, staff will continue to monitor the wastewater system as the consumption levels seem to be smoothing out. More stability in consumption levels will result in more stable forecasts and increase the likelihood of positive year end results.

### **Relationship to Strategic Plan**

Economic sustainability will be enhanced through:

- Being an affordable city for young people, families and retired older adults through maintaining the water and wastewater rates for 2016 at the same rates as 2015

Environmental sustainability is supported by:

- Being prepared for the impacts of climate change through Staff's participation in the Region of Niagara water and wastewater rate methodology review which concluded with the status quo for billing methodologies 2016 and future years of 25% fixed and 75% variable for water and 100% for wastewater.

**Prepared by:** Kristine Douglas, Director FMS/Deputy Treasurer

**Approved by:** Shelley Chemnitz, Commissioner Corporate Services/City Treasurer

City of St Catharines  
Water/Wastewater Budget Summary

	Estimate		Actuals		
	2016	2015	2015	2014	2013
Reserve at Beginning of Year	3,319,840	3,393,467	3,393,467	2,796,556	2,735,232
Revenues	48,862,826	49,286,296	48,182,511	48,734,548	48,148,797
Less: Region expenditures	30,525,922	30,565,508	29,712,869	30,081,414	30,725,901
Net Revenue	18,336,904	18,720,788	18,469,643	18,653,134	17,422,896
City Expenditures					
Water Operating costs	6,439,234	6,144,932	5,977,573	5,918,893	5,690,541
Water Debenture debt	957,099	1,040,785	1,040,785	1,076,261	1,052,872
Water Infrastructure costs	5,500,000	5,500,000	5,188,857	4,492,937	4,770,773
Sewer Operating costs	3,740,203	3,585,602	3,527,865	3,612,558	3,282,557
Sewer Debenture debt	913,271	919,186	919,186	906,166	992,731
Sewer Infrastructure costs	2,124,000	2,270,000	1,889,004	2,049,408	1,572,098
	19,673,807	19,460,505	18,543,269	18,056,223	17,361,572
Annual Surplus/(Deficit)	-1,336,903	-739,718	-73,627	596,911	61,324
Reserve at End of Year	1,982,938	2,653,749	3,319,840	3,393,467	2,796,556
City total	19,673,807	19,460,505	18,543,269	18,056,223	17,361,572
Region total	30,525,922	30,565,508	29,712,869	30,081,414	30,725,901
	50,199,729	50,026,013	48,256,138	48,137,637	48,087,473
cm - purchased	14,800,000	14,800,000	14,858,461	15,247,533	15,947,405

**WATER SYSTEM (515.XXX)**

**2016 Water Budget Summary**

	Dept.	Acct.	Estimate		2015	2014	Actual	
			2016	2015			2013	2012
<b><u>Operating Expenditures:</u></b>								
General Administration	FMS	105	1,406,618	1,340,000	1,211,308	1,241,942	1,279,464	1,234,288
Engineering Overhead	TES	110	1,796,409	1,672,982	1,625,466	1,681,408	1,584,797	1,636,237
Mains, Valves, Hydrants	TES	115	1,842,173	1,805,040	1,762,058	1,817,791	1,775,543	1,468,224
Water service lines	TES	120	396,142	393,080	607,099	430,229	387,668	374,681
Meters	TES	125	842,998	839,630	718,365	680,905	620,291	496,056
New Mains, Valves, Hydrants	TES	135	154,894	94,200	94,719	72,004	63,386	53,880
Services Rendered	TES	145	0	0	-41,442	-5,386	-20,608	-22,497
Total Operating Expenditures:			<u>6,439,234</u>	<u>6,144,932</u>	<u>5,977,573</u>	<u>5,918,893</u>	<u>5,690,541</u>	<u>5,240,869</u>
<b><u>Capital Expenditures:</u></b>								
Water Capital/Revenue	FMS	190	0	0	0	0	0	0
Debenture Debt	FMS	195	957,099	1,040,785	1,040,785	1,076,261	1,052,872	1,018,001
Water Improvement Program	TES	520	5,500,000	5,500,000	5,188,857	4,492,937	4,770,773	4,943,521
Total Capital Expenditures:			<u>6,457,099</u>	<u>6,540,785</u>	<u>6,229,642</u>	<u>5,569,198</u>	<u>5,823,645</u>	<u>5,961,522</u>
<b>Total Water Expenditures</b>			<u>12,896,333</u>	<u>12,685,717</u>	<u>12,207,215</u>	<u>11,488,091</u>	<u>11,514,186</u>	<u>11,202,391</u>

Note: FMS - Financial Management Services  
TES - Transportation and Environmental Services

**City of St Catharines  
2016 Water Improvement Program**

Account 520.	<u>Budget 2016</u>
520.'s	
615 Churchill Street P16-062	\$224,000.00
616 Ridgewood Road P16-064	161,000.00
617 Broadway Avenue P16-100	233,000.00
618 Clover/Heywood/Sandy Cove P16-101	486,000.00
619 Croydon/Bogart P16-102	577,000.00
620 Glendale Avenue P16-103	1,164,000.00
621 Park Avenue P16-104	846,000.00
622 Wakil Drive P16-105	630,000.00
623 Valves/Hydrants/Services P16-118	50,000.00
624 Design for 2017 Projects P16-119	50,000.00
625 Lakeshore Rd (RR#87)-Phase 3 RN16-xx	1,079,000.00
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	<u><u>\$5,500,000.00</u></u>

**CITY OF ST. CATHARINES - WATER/WASTEWATER BUDGET  
ESTIMATE 2016**

<b>EXPENDITURE ACCOUNT</b>	<b>2016 BUDGET</b>
310.112 <b><u>WATER/WASTEWATER EQUIPMENT RESERVE:</u></b>	
OPENING BALANCE	\$1,187,805
ANNUAL RESERVE PROVISION	205,000
EXPENDITURES,2016	-433,000
CLOSING BALANCE	<u>\$959,805</u>
 <b><u>EXPENDITURE DETAILS</u></b>	
ONE (1) INFRAMAP GIS/GPS HARDWARE AND SOFTWARE	50,000
ONE (1) BACKHOE (REPLACE UNIT# 23)	130,000
THREE (3) CUBE VANS (REPLACE UNITS #145,#146,#147)	225,000
ONE (1) INSPECTION CAMERA AND MONITOR	15,000
TWO (2) WATER SERVICE TRACING MACHINE	<u>13,000</u>
	<u>433,000</u>

**WASTEWATER SYSTEM**

**2016 Wastewater Budget Summary**

	Dept.	Acct.	Estimate		Actual			
			2016	2015	2015	2014	2013	2012
<b><u>Operating Expenditures:</u></b>								
Sewers - General	TES	730.100	571,482	573,230	614,581	646,823	513,917	571,649
Sewers - Insurance	FMS	730.105	0	0	81,751	141,734	86,100	55,195
FLAP Program	TES	732.115	301,019	290,283	462,563	456,530	264,159	163,257
Lateral Replacement	TES	732.100	597,690	597,690	475,541	518,603	556,901	610,509
New Laterals	TES	732.105	0	0	-16,819	-8,950	-26,876	-8,145
Drain Clearing	TES	732.110	237,946	233,310	227,373	261,771	144,555	157,238
Overhead	TES	732.190	847,282	749,385	705,292	674,438	788,711	955,980
Pollution Control	TES	735.300	732,957	733,581	659,136	610,871	628,036	585,993
Overhead	TES	735.305	451,827	408,123	318,447	310,738	327,054	380,808
Total Operating Expenditures:			<u>3,740,203</u>	<u>3,585,602</u>	<u>3,527,865</u>	<u>3,612,558</u>	<u>3,282,557</u>	<u>3,472,484</u>
Debtenture Debt	TES	731.195	913,271	919,186	919,186	906,166	992,731	937,254
Sewer Improvement Program	TES	731.100	2,075,000	2,075,000	1,708,004	1,904,408	1,514,098	1,907,272
Capital Out of Revenue	FMS	735.304	49,000	195,000	181,000	145,000	58,000	0
Total Capital Expenditures:			<u>3,037,271</u>	<u>3,189,186</u>	<u>2,808,190</u>	<u>2,955,574</u>	<u>2,564,829</u>	<u>2,844,526</u>
<b>Total City Wastewater Expenditures</b>			<u>6,777,474</u>	<u>6,774,788</u>	<u>6,336,054</u>	<u>6,568,132</u>	<u>5,847,386</u>	<u>6,317,010</u>

Note: FMS - Financial Management Services  
 TES - Transportation and Environmental Services

**City of St Catharines  
2016 Sewer Improvement Program**

Account 731.	Budget 2016
731.'s	
323 Queenston Street P13-066	\$230,000.00
605 2016 Extraneous Flow Elimination P16-002	17,500.00
606 Queenston Street Easements P16-009	100,000.00
607 2016 Sewer Spot Repair Program P16-011	100,000.00
608 2016 Sanitary Sewer Reaming Program P16-012	25,000.00
609 Design 2017 Sewer Projects P16-015	20,000.00
610 Greenwood/Beatrice P16-061	765,000.00
611 Churchill Street P16-062	300,000.00
612 St George Street P16-063	437,500.00
613 Ridgewood Road P16-064	80,000.00
	\$2,075,000.00

**WATER, WASTEWATER AND RELATED SERVICE RATES**

1. The following rates shall be paid to The Corporation of the City of St. Catharines for the use of water supplied by The Corporation of the City of St. Catharines:

<u>(a) Consumption - Cubic Metres</u> (For each four month billing period)	<u>Current</u>	<u>Proposed</u>
Customer Charge	\$50.00	
Consumption Charge - per cubic metre	1.199	
*Note: Large Industrial Users are billed monthly		
Water meter size of 1" or greater will be subject to a water meter equivalency charge when calculating the Customer Charge. Exemption: Single Family Residential classification. See (b) below.		
<u>(b) Meter Equivalency</u>		
Water meter size of 1" or greater will be subject to a water meter equivalency charge when calculating the Customer Charge. Exemption: Single Family Residential classification.		
1" meter =	1.4 meter equivalency units	
1 1/2" meter =	1.8 meter equivalency units	
2" meter =	2.9 meter equivalency units	
3" meter =	11 meter equivalency units	
4" meter =	14 meter equivalency units	
* 6" meter =	21 meter equivalency units	
* >6" meter =	21 meter equivalency units	
* Note: Where a single 6" meter or greater is installed for the purpose of additional fire protection, the multiplier equivalency shall be discounted to 50%.		
<u>(c) Flat Rates</u> (For each four month billing period)		
Per Dwelling unit	\$150.00	
Note: Where more than 20 units are being constructed, the maximum number of units charged is 20.		
<u>(d) Estimated Billing</u>		
Where consumption and/or Flat Rate does not apply, estimates are based on previous actual readings. In the absence of previous actual readings, amount to be determined at the discretion of the Treasurer.		
<u>(e) Rates for Services Outside City</u> (For each four month billing period)		
Multiple of Regular Rate	2X	
Customer Charge	\$100.00	
Consumption Charge - per cubic metre	2.398	
<u>(f) Bulk Water</u> (Key Pad Operated)		
Multiple of Regular Rate	2X	
Per cubic metre	\$2.398	
<u>(g) Water Under Construction</u>		
First four month period Per sq. ft.	\$0.026	
Per sq. m.	0.282	



	<u>Current</u>	<u>Proposed</u>
Next Flat Rate per dwelling unit for each four month period until meter is installed	\$150.00	
If there are extenuating circumstances or if large Industrial/Commercial building, "Next Flat Rate" to be determined at the discretion of the Treasurer.		
2. The following rates shall be paid to The Corporation of the City of St. Catharines for the use of water related services supplied by The Corporation of the City of St. Catharines:		
(a) <u>METER RENTALS</u> (Annually)		
<u>Meter Size</u>		
*16mm (5/8") Displacement	\$19.00	
*16mm (5/8") Displacement with ECR	\$35.00	
*16mm (5/8") Displacement-ECR/Transmitter	\$40.00	
19mm (3/4") Displacement	\$25.00	
19mm (3/4") Displacement with ECR	\$41.00	
19mm (3/4") Displacement-ECR/Transmitter	\$46.00	
25mm (1") Displacement	\$29.00	
25mm (1") Displacement with ECR	\$46.00	
25mm (1") Displacement-ECR/Transmitter	\$51.00	
38mm (1-1/2") Displacement	\$82.00	
38mm(1-1/2") Turbine	\$111.00	
38mm (1-1/2") Displacement with ECR	\$115.00	
38mm (1-1/2") Displacement-ECR/Transmitter	\$120.00	
38mm (1-1/2") OMNI T2 Turbine	\$96.00	
38mm (1 1/2") OMNI C2 Compound	\$115.00	
50mm(2") Displacement	\$92.00	
50mm(2") Displacement with ECR	\$128.00	
50mm(2") Displacement-ECR/Transmitter	\$133.00	
50mm (2") Turbine	\$114.00	
50mm (2") Turbine/Transmitter	\$119.00	
50mm (2") Compound	\$96.00	
50mm (2") Compound/Transmitter	\$101.00	
50mm (2") OMNI T2 Turbine	\$96.00	

	<u>Current</u>	<u>Proposed</u>
50mm (2") OMNI T2 Turbine/Transmitter	\$101.00	
50mm (2") OMNI C2 Compound	\$128.00	
50mm (2") OMNI C2 Compound/Transmitter	\$133.00	
75mm (3") Turbine	\$375.00	
75mm (3") Turbine/Transmitter	\$380.00	
75mm (3") Compound	\$418.00	
75mm (3") Compound/Transmitter	\$423.00	
75mm (3") OMNI T2 Turbine	\$375.00	
75mm (3") OMNI T2 Turbine/Transmitter	\$380.00	
75mm (3") OMNI C2 Compound	\$402.00	
75mm (3") OMNI C2 Compound/Transmitter	\$407.00	
100mm (4") Turbine	\$475.00	
100mm (4") Turbine/Transmitter	\$480.00	
100mm (4") Compound	\$498.00	
100mm (4") Compound/Transmitter	\$503.00	
100mm (4") OMNI T2 Turbine	\$475.00	
100mm (4") OMNI T2 Turbine/Transmitter	\$480.00	
100mm (4") OMNI C2 Compound	\$488.00	
100mm (4") OMNI C2 Compound/Transmitter	\$493.00	
150mm (6") Turbine	\$587.00	
150mm (6") Turbine/Transmitter	\$592.00	
150mm (6") Compound	\$671.00	
150mm (6") Compound/Transmitter	\$676.00	
150mm (6") Fire Assembly	\$900.00	
150mm (6") Fire Assembly /Transmitter	\$905.00	
150mm (6") OMNI T2 Turbine	\$587.00	
150mm (6") OMNI T2 Turbine/Transmitter	\$592.00	
150mm (6") OMNI C2 Compound	\$671.00	
150mm (6") OMNI C2 Compound/Transmitter	\$676.00	

	<u>Current</u>	<u>Proposed</u>
200mm (8") Turbine	\$665.00	
200mm (8") Turbine/Transmitter	\$670.00	
200mm (8") Fire Assembly	\$1,131.00	
200mm (8") Fire Assembly/Transmitter	\$1,136.00	
250mm (10") Turbine	\$794.00	
250mm (10") Turbine/Transmitter	\$799.00	
250mm (10") Fire Assembly	\$1,408.00	
250mm (10") Fire Assembly/Transmitter	\$1,413.00	

\* NOTE: No charge for 16mm (5/8") meter unless installed outside the City.

Where meter type consists of two meters combined, one rental rate is applicable, based on the predominant use of the meter.

(a)(i) METER PITS (CHAMBER) RENTALS (Annually)

Meter Size

16mm (5/8")	\$51.00
19mm (3/4")	\$52.00
25mm (1")	\$58.00
38mm (1-1/2")	\$142.00
50mm (2")	\$151.00
75mm (3")	Actual Cost
100mm (4")	Actual Cost
150mm (6")	Actual Cost
200mm (8")	Actual Cost
250mm (10")	Actual Cost

	<u>Current</u>	<u>Proposed</u>
3. The following rates shall be paid to the Corporation of the City of St. Catharines for the wastewater system and services as outlined herein:		
(a) <u>Wastewater Fees</u>		
Sewer Replacement Program	\$29.00	
Wastewater charges – per cubic metre	1.826	
Water meter size of 1" or greater will be subject to a water meter equivalency charge when calculating the Customer Charge. Exemption: Single Family Residential classification. See (b) below.		
(b) <u>Meter Equivalency</u>		
Water meter size of 1" or greater will be subject to a water meter equivalency charge when calculating the Customer Charge. Exemption: Single Family Residential classification.		
1" meter = 1.4 meter equivalency units		
1 1/2" meter = 1.8 meter equivalency units		
2" meter = 2.9 meter equivalency units		
3" meter = 11 meter equivalency units		
4" meter = 14 meter equivalency units		
6" meter = 21 meter equivalency units		
>6" meter = 21 meter equivalency units		
Note: Where a single 6" meter or greater is installed for the purpose of additional fire protection, the multiplier equivalency shall be discounted to 50%.		
(c) <u>Flat Rates</u> (For each four month billing period)		
Per Dwelling unit	\$200.00	
(d) <u>Wastewater Under Construction</u>		
First four month period		
Next Flat Rate per dwelling unit for each four month period until meter is installed	\$200.00	
Note: Where more than 20 units are under construction, the maximum number of units charged is 20.		
If there are extenuating circumstances or if large Industrial/Commercial building, "Next Flat Rate" to be determined at the discretion of the Treasurer.		
4. <u>Unauthorized Use of Water</u>		
(a) Rate when bypass valve is opened without Authorization or any other unauthorized use of water or determination that water provided has not passed through the meter:		
Two (2) times the average of last three representative bills. If not applicable, estimate to be determined at the discretion of the Treasurer. (For each four month billing period)	2X	
(b) Where property has operated a grow-op, amount is three (3) times the total Flat Rate per dwelling unit as outlined in Sections 1 and 3 (For each four month billing period)	1,050.00	

	<u>Current</u>	<u>Proposed</u>
<b>5. <u>Miscellaneous</u></b>		
<b>(a) <u>Meter Relocation</u> to a more appropriate position to facilitate reading and/or maintenance:</b>		
When requested by homeowner, equivalent to applicable Water Service Call as defined in Rates and Fees.		
When determined by City Engineer, amount charged at the discretion of the Treasurer		
<b>(b) Installation of Automated Meter Reading (AMR) apparatus when performed not in accordance with scheduled deployment :</b>		
When requested by homeowner	\$350.00	
When determined by City Engineer, amount charged at the discretion of the Treasurer		
Customer non compliance with AMR installation	\$500.00	
<b>(c) <u>Late Payment Penalty</u></b>		
A penalty for late payment of 1.5% per month is added the day following the due date and the first day of each month thereafter.		
<b>(d) Water Certificate</b>	\$30.00	<b>\$40.00</b>
<b>(e) The rates set out above shall be deemed to have become effective on all accounts with Billing periods ending on or after <b>April 1, 2016.</b></b>		

\* NOTE: METRIC CONVERSION: 1 cubic metre (CM) equals 220 gallons or 1,000 litres

\***bolded script = proposed changes for 2016**