

## Municipality of Leamington

# Water and Wastewater Rate Update – 2016

February 23, 2016



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 Planning for growth

February 23, 2016

Ms. Shannon Belleau  
Manager of Environmental Services  
The Corporation of the Municipality of Leamington  
111 Erie Street North  
Leamington, ON  
N8H 2Z9

Dear Ms. Belleau:

Re: Water and Wastewater Rate Update – 2016

We are pleased to provide our letter report regarding the update of the water and wastewater rates for the Municipality. The report provided herein is based upon the most recent available information provided by staff regarding the capital expenditure plan and operating budget as well as presently anticipated servicing plans. We would thank you at the onset for the assistance you provided to the writer in the preparation of this analysis.

## **1. Background**

The Municipality of Leamington is a municipality located in the County of Essex, with a population of nearly 30,000. The Municipality services 9,197 users with water servicing. These users are comprised of residential, non-residential, regulated greenhouses and non-regulated greenhouses. The Municipality purchases water from the Union Water Treatment Plant located south of the Hamlet of Ruthven in the former Township of Gosfield South. The Municipality also services 6,276 customers with wastewater services via a municipally owned facility located at 435 Seacliff Drive East.

Currently, the Municipality has a base charge for water, as well as a volume rate per m<sup>3</sup> for metered customers which varies by meter size. The volume rates also vary for commercial, field drip irrigation and unregulated greenhouses based on the property size. For wastewater customers there is a base charge in place as well as a volume charge for usage in excess of 20.91m<sup>3</sup>/month. The current rates for water and wastewater are imposed by by-law. There are also a small number of customers who receive water but are not metered, these customers are charged on a flat rate basis. Further there are customers with fire lines and hydrants that are charged flat rates per month. The 2015 rates are set out in Table 1 as follows:

**Table 1  
2015 Water and Wastewater Rates**

<b>2015 - Water Billing Rates</b>	
<b>Base Charge - Monthly</b>	
All Metered Customers	\$20.45

<b>2015 - Wastewater Billing Rates</b>	
<b>Base Charge - Monthly</b>	
Sewer Surcharge including 20.91m <sup>3</sup> (4,600 gallons)	\$40.18

<b>Residential &amp; Commercial Less than or Equal to 1" - Volume Charge</b>	
\$3.50	per 1,000 gallons
\$0.770	per m <sup>3</sup>

<b>Volume Charge - Over 20.91m<sup>3</sup> of Volume Charge</b>	
\$8.73	per 1,000 gallons
\$1.920	per m <sup>3</sup>

<b>Volume Charge - Commercial &amp; Regulated Greenhouse &gt;1"</b>	
\$3.83	per 1,000 gallons
\$0.842	per m <sup>3</sup>

Regulated Greenhouse has a Leamington approved on-site reservoir and rate of flow control system

<b>Volume Charge - Commercial, Field Drip Irrigation, Unregulated Greenhouse Under 3 acres with meters &gt;1"</b>	
\$4.17	per 1,000 gallons
\$0.917	per m <sup>3</sup>

<b>Volume Charge - Field Drip Irrigation &amp; Unregulated Greenhouses Over 3 Acres with water meters &gt;1"</b>	
\$8.34	per 1,000 gallons
\$1.835	per m <sup>3</sup>

<b>Monthly Flat Rate</b>	
\$49.00	Per Month

<b>Monthly Fireline Flat Rate</b>	
\$49.00	Per Month

<b>Monthly Hydrant Maintenance Flat Rate</b>	
\$73.75	Per Month

## **2. Study Purpose**

This report provides for an update of earlier rate studies. As the Municipality is proceeding with capital works and dealing with changes in volumes, the Municipality wishes to update their capital/operating budget forecasts are volume forecast to ensure that the rates to be charged in the future reflect the full cost of providing the service under current circumstances.

## **3. Regulatory Change in Ontario**

Resulting from the water crisis in Walkerton, significant regulatory changes have been made in Ontario over the past decade. These changes arise as a result of the Walkerton Commission and the 93 recommendations made by the Walkerton Inquiry Part II report. The current rate analysis takes into consideration the requirements necessary to meet current legislation.

## **4. Forecast Growth and Servicing Requirements**

A review of the growth forecast was undertaken based on the most recent development charges study; however, the growth included for rate calculation purposes has been reduced to reflect more recent trends in the Municipality and provide for a conservative approach to customer and volume forecasts. For operating revenue purposes, it would be undesirable to forecast too high as it could produce a potential operating deficit should the growth not materialize. Forecasting higher amounts for development charge purposes, however, ensures that capital infrastructure is in place so as not to inhibit development.

For future water and wastewater residential customers, an average volume of 175 m<sup>3</sup> per year has been assumed. In addition, the volume forecast includes an estimate of annual volumes pertaining to Highbury (reduced from previous rate studies which were based on Heinz volumes). Finally, the forecast assumes growth in greenhouses with an average annual volume of 5,000 m<sup>3</sup>. Table 2 provides for the forecast of water and wastewater customers and volumes.

**Table 2**  
**Municipality of Leamington**  
**System User Forecast**

*Water Users Forecast*

Year	Total Users	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2015	29	15	29	29	29	29	29	29	29	29	29	29
2016	38		19	38	38	38	38	38	38	38	38	38
2017	38			19	38	38	38	38	38	38	38	38
2018	56				28	56	56	56	56	56	56	56
2019	56					28	56	56	56	56	56	56
2020	56						28	56	56	56	56	56
2021	56							28	56	56	56	56
2022	56								28	56	56	56
2023	56									28	56	56
2024	93										47	93
2025	93											47
Total	627	15	48	86	133	189	245	301	357	413	488	581
m <sup>3</sup> /user	175	175	175	175	175	175	175	175	175	175	175	175
Annual Flow		2,625	8,400	15,050	23,275	33,075	42,875	52,675	62,475	72,275	85,400	101,675

*Water Users Forecast - Greenhouses*

Year	Acres	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2015	25	13	25	25	25	25	25	25	25	25	25	25
2016	25		13	25	25	25	25	25	25	25	25	25
2017	25			13	25	25	25	25	25	25	25	25
2018	25				13	25	25	25	25	25	25	25
2019	25					13	25	25	25	25	25	25
2020	25						13	25	25	25	25	25
2021	25							13	25	25	25	25
2022	25								13	25	25	25
2023	25									13	25	25
2024	25										13	25
2025	25											13
Total	275	13	38	63	88	113	138	163	188	213	238	263
m <sup>3</sup> /user	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Annual Flow		65,000	190,000	315,000	440,000	565,000	690,000	815,000	940,000	1,065,000	1,190,000	1,315,000

Acres are to recognize the acres that are assumed will hook into the municipal system.

Water Customer Forecast	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	9,197	9,197	9,197	9,197	9,197	9,197	9,197	9,197	9,197	9,197	9,197
New - Growth	15	48	86	133	189	245	301	357	413	488	581
<b>Total</b>	<b>9,212</b>	<b>9,245</b>	<b>9,283</b>	<b>9,330</b>	<b>9,386</b>	<b>9,442</b>	<b>9,498</b>	<b>9,554</b>	<b>9,610</b>	<b>9,685</b>	<b>9,778</b>

Water Consumption Forecast (m³)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing Residential	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406	1,811,406
Existing Non-Residential <1" & Wholesale	325,991	325,991	325,991	325,991	325,991	325,991	325,991	325,991	325,991	325,991	325,991
Existing Non-Residential >1"	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696
Existing Greenhouse Regulated	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265	2,178,265
Existing Greenhouse Unregulated	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667
Existing Greenhouse Unregulated (Over 3 Acres)	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622
New Residential	2,625	8,400	15,050	23,275	33,075	42,875	52,675	62,475	72,275	85,400	101,675
New Greenhouse Regulated	65,000	190,000	315,000	440,000	565,000	690,000	815,000	940,000	1,065,000	1,190,000	1,315,000
<b>Total Excluding Highbury</b>	<b>5,477,271</b>	<b>5,608,046</b>	<b>5,739,696</b>	<b>5,872,921</b>	<b>6,007,721</b>	<b>6,142,521</b>	<b>6,277,321</b>	<b>6,412,121</b>	<b>6,546,921</b>	<b>6,685,046</b>	<b>6,826,321</b>
<b>Highbury Estimated Volumes</b>											
Estimated Volumes (based on staff comments)	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800
<b>Total Highbury</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>	<b>626,800</b>
<b>Total Including Highbury</b>	<b>6,104,071</b>	<b>6,234,846</b>	<b>6,366,496</b>	<b>6,499,721</b>	<b>6,634,521</b>	<b>6,769,321</b>	<b>6,904,121</b>	<b>7,038,921</b>	<b>7,173,721</b>	<b>7,311,846</b>	<b>7,453,121</b>

**Water Purchase from UWSS**

Water Customer Forecast	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Billable Water Volume - Excluding Highbury	5,477,271	5,608,046	5,739,696	5,872,921	6,007,721	6,142,521	6,277,321	6,412,121	6,546,921	6,685,046	6,826,321
Wholesale cost of Water purchased from UWSS	0.577	0.589	0.600	0.612	0.625	0.637	0.650	0.663	0.676	0.690	0.703
Volume purchased from UWSS	6,300,000	6,340,412	6,489,254	6,639,877	6,792,281	6,944,685	7,097,088	7,249,492	7,401,896	7,558,059	7,717,783
Water Loss	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%
<b>Sub-Total Purchased Water Expenditure</b>	<b>3,635,100</b>	<b>3,731,586</b>	<b>3,895,569</b>	<b>4,065,710</b>	<b>4,242,210</b>	<b>4,424,143</b>	<b>4,611,658</b>	<b>4,804,903</b>	<b>5,004,033</b>	<b>5,211,799</b>	<b>5,428,378</b>
Total Billable Highbury Volume	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800	626,800
UW Water Rate	0.426	0.435	0.443	0.452	0.461	0.470	0.480	0.489	0.499	0.509	0.519
<b>Sub-Total Purchased Water Expenditure - Highbury</b>	<b>267,017</b>	<b>272,357</b>	<b>277,804</b>	<b>283,360</b>	<b>289,028</b>	<b>294,808</b>	<b>300,704</b>	<b>306,718</b>	<b>312,853</b>	<b>319,110</b>	<b>325,492</b>
<b>Total Purchased Water Expenditure</b>	<b>3,902,117</b>	<b>4,003,943</b>	<b>4,173,373</b>	<b>4,349,070</b>	<b>4,531,237</b>	<b>4,718,952</b>	<b>4,912,362</b>	<b>5,111,621</b>	<b>5,316,886</b>	<b>5,530,908</b>	<b>5,753,870</b>

**Wastewater Users Forecast**

Year	Total Users	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2015	23	12	23	23	23	23	23	23	23	23	23	23
2016	30		15	30	30	30	30	30	30	30	30	30
2017	10			5	10	10	10	10	10	10	10	10
2018	45				23	45	45	45	45	45	45	45
2019	45					23	45	45	45	45	45	45
2020	45						23	45	45	45	45	45
2021	45							23	45	45	45	45
2022	45								23	45	45	45
2023	45									23	45	45
2024	88										44	88
2025	88											44
<b>Total</b>	<b>509</b>	<b>12</b>	<b>38</b>	<b>58</b>	<b>86</b>	<b>131</b>	<b>176</b>	<b>221</b>	<b>266</b>	<b>311</b>	<b>377</b>	<b>465</b>
m <sup>3</sup> /user	175	175	175	175	175	175	175	175	175	175	175	175
Annual Flow		2,100	6,650	10,150	15,050	22,925	30,800	38,675	46,550	54,425	65,975	81,375

Wastewater Customer Forecast	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276
New - Growth	12	38	58	86	131	176	221	266	311	377	465
<b>Total</b>	<b>6,288</b>	<b>6,314</b>	<b>6,334</b>	<b>6,362</b>	<b>6,407</b>	<b>6,452</b>	<b>6,497</b>	<b>6,542</b>	<b>6,587</b>	<b>6,653</b>	<b>6,741</b>

Wastewater Flows Forecast (m <sup>3</sup> )	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Block 1 - Minimum Charge Volumes</b>											
Existing	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682	1,842,682
Less Monthly 20.91m <sup>3</sup> included in Base Charge - Existing	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)	(1,031,505)
New	2,100	6,650	10,150	15,050	22,925	30,800	38,675	46,550	54,425	65,975	81,375
Less Monthly 20.91m <sup>3</sup> included in Base Charge - New	(2,100)	(6,650)	(10,150)	(15,050)	(22,925)	(30,800)	(38,675)	(46,550)	(54,425)	(65,975)	(81,375)
<b>Subtotal Block 1 (Included in Minimum Charge)</b>	<b>1,033,605</b>	<b>1,038,155</b>	<b>1,041,655</b>	<b>1,046,555</b>	<b>1,054,430</b>	<b>1,062,305</b>	<b>1,070,180</b>	<b>1,078,055</b>	<b>1,085,930</b>	<b>1,097,480</b>	<b>1,112,880</b>
<b>Block 2 - Variable Rate Volumes</b>											
Existing	811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177
New	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Block 2</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>	<b>811,177</b>
<b>Total</b>	<b>1,844,782</b>	<b>1,849,332</b>	<b>1,852,832</b>	<b>1,857,732</b>	<b>1,865,607</b>	<b>1,873,482</b>	<b>1,881,357</b>	<b>1,889,232</b>	<b>1,897,107</b>	<b>1,908,657</b>	<b>1,924,057</b>

## 5. Base Charge and Flat Charge Calculations

From the customer forecasts, as provided in section 4 of this report, the forecast operating revenue to be received in the future can be estimated. Presently (for 2015) the base monthly charge is \$20.45 for all metered water customers. It is noted that the base monthly charge includes a portion, \$3.48, which is attributed to the water meter replacement reserve and the balance to the general water line renewal reserve. As well, flat rates are in place for:

- un-metered customers in the amount of \$49.00 per month;
- customers with fire lines in the amount of \$49.00 per month; and
- hydrant customers in the amount of \$73.75 per month.

For wastewater, the monthly base surcharge is \$40.18 which includes the first 20.91m<sup>3</sup> (4,600 gallons) of volume.

Previous studies recommended that the base charges and flat rates be indexed annually with inflation. We have assumed a 2% inflation rate for our analysis and hence have inflated these charges for each year of the forecast. It is noted that in 2018 the portion of the water base charge that is transferred to the water meter replacement reserve will decrease by 50% and the amount transferred to the general water line renewal reserve will increase by the same amount. This will ensure that future capital replacement needs are being accommodated in line with longer term replacement needs for both water meters and water lines. These revenues will be identified as a source of revenue for the operating programs and will be deducted prior to calculating the volume charges.

Table 3 provides the forecast of water base charges and flat rates and Table 4 provides the forecast for wastewater base charges.



**Table 3**  
**Water Meter Replacement Charge**

Water Meter Replacement Charge	2015	2016	2017	2018*	2019	2020	2021	2022	2023	2024	2025
Existing	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030
New	15	48	86	133	189	245	301	357	413	488	581
<b>Subtotal Customers</b>	<b>9,045</b>	<b>9,078</b>	<b>9,116</b>	<b>9,163</b>	<b>9,219</b>	<b>9,275</b>	<b>9,331</b>	<b>9,387</b>	<b>9,443</b>	<b>9,518</b>	<b>9,611</b>
Monthly Base Charge	\$3.48	\$3.55	\$3.62	\$1.85	\$1.89	\$1.92	\$1.96	\$2.00	\$2.04	\$2.08	\$2.13
Annual Base Charge	\$41.76	\$42.60	\$43.45	\$22.20	\$22.64	\$23.10	\$23.56	\$24.03	\$24.51	\$25.00	\$25.50
<b>Total Annual Revenue</b>	<b>\$377,719</b>	<b>\$386,679</b>	<b>\$396,064</b>	<b>\$203,419</b>	<b>\$208,755</b>	<b>\$214,224</b>	<b>\$219,827</b>	<b>\$225,570</b>	<b>\$231,454</b>	<b>\$237,958</b>	<b>\$245,088</b>

\* Shift between Water Meter Replacement Charge and Water General Base Charge as of 2018 to ensure water meter replacement reserve is replenished if the future when next meter replacements are required

**Water Base Charge**

Basic Water Charge	2015	2016	2017	2018*	2019	2020	2021	2022	2023	2024	2025
Existing	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030
New	15	48	86	133	189	245	301	357	413	488	581
<b>Subtotal Customers</b>	<b>9,045</b>	<b>9,078</b>	<b>9,116</b>	<b>9,163</b>	<b>9,219</b>	<b>9,275</b>	<b>9,331</b>	<b>9,387</b>	<b>9,443</b>	<b>9,518</b>	<b>9,611</b>
Monthly Base Charge	\$16.97	\$17.31	\$17.66	\$19.85	\$20.25	\$20.65	\$21.07	\$21.49	\$21.92	\$22.36	\$22.80
Annual Base Charge	\$203.64	\$207.71	\$211.87	\$238.22	\$242.98	\$247.84	\$252.80	\$257.86	\$263.01	\$268.27	\$273.64
<b>Total Annual Revenue</b>	<b>\$1,841,924</b>	<b>\$1,885,617</b>	<b>\$1,931,380</b>	<b>\$2,182,814</b>	<b>\$2,240,077</b>	<b>\$2,298,758</b>	<b>\$2,358,890</b>	<b>\$2,420,508</b>	<b>\$2,483,647</b>	<b>\$2,553,441</b>	<b>\$2,629,958</b>

\* Shift between Water Meter Replacement Charge and Water General Base Charge as of 2018 as noted above

**Flat Rate Charge**

Flat Rate Charge	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	14	14	14	14	14	14	14	14	14	14	14
New	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
Monthly Base Charge	\$ 49.00	\$49.98	\$50.98	\$52.00	\$53.04	\$54.10	\$55.18	\$56.29	\$57.41	\$58.56	\$59.73
Annual Base Charge	\$588.00	\$599.76	\$611.76	\$623.99	\$636.47	\$649.20	\$662.18	\$675.43	\$688.94	\$702.71	\$716.77
<b>Total Annual Revenue</b>	<b>\$8,232</b>	<b>\$8,397</b>	<b>\$8,565</b>	<b>\$8,736</b>	<b>\$8,911</b>	<b>\$9,089</b>	<b>\$9,271</b>	<b>\$9,456</b>	<b>\$9,645</b>	<b>\$9,838</b>	<b>\$10,035</b>

**Flat Rate Fire Line**

Fire Line Flat Rate	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	3	3	3	3	3	3	3	3	3	3	3
New	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal Customers</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Monthly Base Charge	\$ 49.00	\$49.98	\$50.98	\$52.00	\$53.04	\$54.10	\$55.18	\$56.29	\$57.41	\$58.56	\$59.73
Annual Base Charge	\$588.00	\$599.76	\$611.76	\$623.99	\$636.47	\$649.20	\$662.18	\$675.43	\$688.94	\$702.71	\$716.77
<b>Total Annual Revenue</b>	<b>\$1,764</b>	<b>\$1,799</b>	<b>\$1,835</b>	<b>\$1,872</b>	<b>\$1,909</b>	<b>\$1,948</b>	<b>\$1,987</b>	<b>\$2,026</b>	<b>\$2,067</b>	<b>\$2,108</b>	<b>\$2,150</b>

**Private Hydrant Maintenance**

Hydrant	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	2	2	2	2	2	2	2	2	2	2	2
New	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal Customers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
Monthly Base Charge	\$73.75	\$75.23	\$76.73	\$78.26	\$79.83	\$81.43	\$83.05	\$84.72	\$86.41	\$88.14	\$89.90
Annual Base Charge	\$885.00	\$902.70	\$920.75	\$939.17	\$957.95	\$977.11	\$996.65	\$1,016.59	\$1,036.92	\$1,057.66	\$1,078.81
<b>Total Annual Revenue</b>	<b>\$1,770</b>	<b>\$1,805</b>	<b>\$1,842</b>	<b>\$1,878</b>	<b>\$1,916</b>	<b>\$1,954</b>	<b>\$1,993</b>	<b>\$2,033</b>	<b>\$2,074</b>	<b>\$2,115</b>	<b>\$2,158</b>

**Table 4**  
Municipality of Leamington  
Base Charge - Wastewater

Wastewater	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276
New	12	38	58	86	131	176	221	266	311	377	465
<b>Subtotal Customers</b>	<b>6,288</b>	<b>6,314</b>	<b>6,334</b>	<b>6,362</b>	<b>6,407</b>	<b>6,452</b>	<b>6,497</b>	<b>6,542</b>	<b>6,587</b>	<b>6,653</b>	<b>6,741</b>
<b>Total Annual Revenue</b>	<b>\$3,031,822</b>	<b>\$3,196,576</b>	<b>\$3,367,037</b>	<b>\$3,551,017</b>	<b>\$3,683,418</b>	<b>\$3,820,568</b>	<b>\$3,962,631</b>	<b>\$4,069,879</b>	<b>\$4,179,831</b>	<b>\$4,306,146</b>	<b>\$4,450,366</b>

Sewer Base Charge including 20.91m3 (4,600 gallons) Meter Size	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Existing	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276
New	12	38	58	86	131	176	221	266	311	377	465
<b>Subtotal Customers</b>	<b>6,288</b>	<b>6,314</b>	<b>6,334</b>	<b>6,362</b>	<b>6,407</b>	<b>6,452</b>	<b>6,497</b>	<b>6,542</b>	<b>6,587</b>	<b>6,653</b>	<b>6,741</b>
Monthly Base Charge	\$40.18	\$42.19	\$44.30	\$46.51	\$47.91	\$49.35	\$50.83	\$51.84	\$52.88	\$53.94	\$55.02
Annual Base Charge	\$482.16	\$506.27	\$531.58	\$558.16	\$574.91	\$592.15	\$609.92	\$622.12	\$634.56	\$647.25	\$660.19
<b>Total Annual Revenue</b>	<b>\$3,031,822</b>	<b>\$3,196,576</b>	<b>\$3,367,037</b>	<b>\$3,551,017</b>	<b>\$3,683,418</b>	<b>\$3,820,568</b>	<b>\$3,962,631</b>	<b>\$4,069,879</b>	<b>\$4,179,831</b>	<b>\$4,306,146</b>	<b>\$4,450,366</b>

## **6. Water Service**

### ***6.1 Capital Expenditures and Revenues***

Appendix A-1 presents the 2015 capital budget and 2016-2025 capital forecast. The capital program totals \$22.51 million (including 2015). The program is made up of various replacement projects for watermain, vehicles and equipment, facility components and water meters.

Funding for the above capital works has been developed to include transfers from both the water meter replacement reserve and the general water line renewals reserve. With the reserve transfers, it is noted that no additional debenture financing is anticipated over the forecast period to 2025.

### ***6.2 Operating Budget Impacts***

Operating Budgets are comprised of two categories of expenditures: operations; and capital related. Operations consist of the day-to-day expenditures to operate and maintain the system and to provide administration and overhead. Capital related expenditures would include transfers to the capital budget and reserves to assist in funding the capital program as well as any past debt issued to finance capital works. Appendix A-9 provides the summary of the operating budget/forecast expenditures.

In forecasting operations expenditures over the forecast period, most have been assumed to increase with inflation at 2%; however, expenditures related to utilities and chemicals have been assumed to increase with a higher rate of inflation based on current trends, 5% annually over the forecast.

It is noted that the Municipality purchases water from Union Water. Over the forecast period, it is assumed that the purchase price of water will increase by 2% annually given. This cost has also been increased to reflect the added volume of water purchased annually due to growth. The impacts on the capital related portion of the operating budget were discussed above.

Operating revenues for water programs normally consist of charges to users (via a base monthly or bi-monthly charge and a volumetric rate for water consumption) as well as various service charges and miscellaneous fees. As noted previously, the Municipality imposes a monthly base charge of \$20.45 per customer. Over the forecast period, it has been assumed (and is recommended) that these charges be indexed annually for inflation. The Municipality also has other types of miscellaneous revenues such as connection fees, buy-in fees, investment income, etc. These miscellaneous revenues have also been inflated by 2% annually over the forecast period.

Over the forecast period, as new homes hook into the water systems, the Municipality will impose a development charge to recover a portion of the capital cost invested for system capacity. Currently development charges are being discounted and, therefore, the foregone revenue from growth is being funded from the rates. This discount is anticipated to be phased

out in 2017 at which time, these revenues have been accounted for in the rate forecast. These funds will go towards future growth related water infrastructure requirements.

The net amount to be recovered through billable water volume rates is shown at the bottom of Appendix A-9. The annual billable water volume rates are provided by dividing the forecasted billable volumes into the net operating costs to be recovered. Based on the discussions above, the following forecast rates are provided for Council's consideration. The annual increase in volume water rates is 3% over the forecast period. Note that the volume rates differ by size and type of customer consistent with the current rate structure in place (see Appendix A-10).

## **7. Wastewater Service**

### ***7.1 Capital Expenditures and Revenues***

Appendix B-1 presents the 2015 capital budget and 2016-2025 capital forecast for wastewater services. The capital program totals \$49.86 million (including 2015). It is noted that of this work, \$35.88 million relates to linear infrastructure which is currently funded through property taxes. It is assumed that this funding source will continue over the forecast period. The net program of \$13.98 to be funded through rates is made up of various replacement projects at the pollution control plant as well as growth related works for expansion to the plant.

Funding for the above capital works has been developed to include transfers from the development charges reserve and the general wastewater reserve. Currently the capital forecast does not anticipate the need to issue additional debenture financing.

### ***7.2 Operating Budget Impacts***

Operating Budgets are comprised of two categories of expenditures: operations; and capital related. Further, the portions of the operations and capital related expenditures have been identified by those related to the plant vs. the linear assets. Similar to water, operations consist of the day-to-day expenditures to operate and maintain the system and to provide administration and overhead and capital related includes transfers to the capital budget and reserves as well as any past debt issued to finance capital works. Appendix B-7 provides the summary of the operating budget/forecast expenditures.

In forecasting operations expenditures over the forecast period, most have been assumed to increase with inflation at 2%; however, expenditures related to utilities and chemicals have been assumed to increase with a higher rate of inflation based on current trends, 5% annually over the forecast.

Operating revenues for wastewater programs normally consist of charges to users (via a base monthly charges and a volumetric rate for wastewater billable volumes) as well as various service charges and miscellaneous fees. As noted previously, the Municipality imposes a monthly base charge of \$40.18 which includes the first 20.91 m<sup>3</sup> of volumes. Over the forecast period, it has been assumed (and is recommended) that this monthly charge be

indexed annually for inflation. Miscellaneous revenues from hauled waste, leachate revenue, overstrength revenue, etc., have also been inflated by 2% annually over the forecast period.

Similar to water, the growth from development over the forecast period, is currently subject to council directed discounts that are being funded from the rates. This discount is anticipated to be phased out in 2017 at which time, these revenues have been accounted for in the rate forecast. These funds will go towards future growth related water infrastructure requirements.

The net amount to be recovered through billable wastewater volume rates is shown at the bottom of Appendix B-7. The annual billable wastewater volume rates are provided by dividing the forecasted billable volumes into the net operating costs to be recovered. Based on the discussions above, the forecast rates are provided for Council's consideration with an annual increase of 5% anticipated in 2016-2018 inclusive, 3% annually from 2019 to 2021 and 2% annually thereafter. The calculated rates are provided for in Appendix B-8.

## **8. Considerations for Council**

The following recommendations are provided for Council's consideration:

1. That Council consider the capital program for water and wastewater services along with the associated funding.
2. That Council continue to include within the operating budget forecast, a provision for lifecycle costs for the replacement of the water and wastewater infrastructure.
3. That the flat rate and base monthly charge for water and base charge for wastewater be as provided for in the calculation set out herein.
4. That Council consider increasing the 2016 water and wastewater billable volume rates as provided for in the calculations set out herein.

We trust that the foregoing is satisfactory and would be pleased to discuss it further with you, at your convenience.

Yours very truly,

WATSON & ASSOCIATES ECONOMISTS LTD.

Gary D. Scandlan, B.A., PLE  
Director

# Appendix A – Water Service

**Appendix A-1  
Municipality of Leamington  
Water Service  
Capital Budget Forecast  
Inflated \$**

Description	Budget 2015	Total	Forecast										
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Capital Expenditures</b>													
Hazelton, Queens, Windsor	533,000	-	-	-	-	-	-	-	-	-	-	-	-
White Street Construction	130,000	-	-	-	-	-	-	-	-	-	-	-	-
Erie St from Askew to Oak	165,000	-	-	-	-	-	-	-	-	-	-	-	-
Foundry, Clark, Ivan, Whitney	606,000	-	-	-	-	-	-	-	-	-	-	-	-
Melrose from Erie to Sherk, Parkdale	374,000	-	-	-	-	-	-	-	-	-	-	-	-
Tools & Equipment - Small Capital	15,000	111,000	10,000	10,000	11,000	11,000	11,000	11,000	11,000	11,000	12,000	12,000	12,000
Wigle from Marlborough to Talbot	-	274,000	45,000	229,000	-	-	-	-	-	-	-	-	-
Wigle from Robinson to Oak	-	168,000	28,000	140,000	-	-	-	-	-	-	-	-	-
Orange from Victoria to Orange - Whitwam Intersection	-	252,000	41,000	211,000	-	-	-	-	-	-	-	-	-
Settingington from Victoria to Whitwam	-	252,000	41,000	211,000	-	-	-	-	-	-	-	-	-
Settingington from Princess to Erie	-	66,000	11,000	55,000	-	-	-	-	-	-	-	-	-
Mill St from Victoria to Whitwam	-	236,000	23,000	213,000	-	-	-	-	-	-	-	-	-
Morgan & Georgia, Erie to Chestnut	-	581,000	581,000	-	-	-	-	-	-	-	-	-	-
Marlborough, (Chestnut, Fox) Phase 1 Construction	-	291,000	-	291,000	-	-	-	-	-	-	-	-	-
Mersea Rd 7 to Kent Rd 1	-	851,000	-	-	851,000	-	-	-	-	-	-	-	-
Audrey/Margaret/Jane/Claire	-	423,000	-	78,000	345,000	-	-	-	-	-	-	-	-
Coronation from Erie to Sherk	-	52,000	-	52,000	-	-	-	-	-	-	-	-	-
Ontario St from Oak St E. to Robinson St	-	243,000	-	94,000	149,000	-	-	-	-	-	-	-	-
Victoria from Oak to Robinson	-	174,000	-	28,000	-	146,000	-	-	-	-	-	-	-
Montgomery from Victoria to Erie	-	161,000	-	26,000	-	135,000	-	-	-	-	-	-	-
Princess from Robinson to Settingington	-	161,000	-	26,000	-	135,000	-	-	-	-	-	-	-
(Marlborough), Chestnut, Fox Phase 2 construction	-	125,000	-	125,000	-	-	-	-	-	-	-	-	-
MCR- trunk watermain intersection to Oak St W	-	90,000	-	-	90,000	-	-	-	-	-	-	-	-
Pelee Bevel Phase 2	-	574,000	574,000	-	-	-	-	-	-	-	-	-	-
Pelee Bevel Phase 3	-	646,000	-	646,000	-	-	-	-	-	-	-	-	-
Erie S/Forest/Conover/Stewart (115,116,117) Const - Phase 2	-	373,000	-	-	-	373,000	-	-	-	-	-	-	-
10E Henry/Lorne/Gladstone/William	-	54,000	-	-	-	54,000	-	-	-	-	-	-	-
10C Henry/Lorne/Gladstone/William	-	298,000	-	-	-	298,000	-	-	-	-	-	-	-
Grace Ave from Fuller to just past Kimball Ave.	-	61,000	-	-	-	61,000	-	-	-	-	-	-	-
Marlborough St E. from Wigle St to Whitwam Ave.	-	133,000	-	-	-	133,000	-	-	-	-	-	-	-
22C Coronation St from Erie St to Sherk St	-	205,000	-	-	-	-	-	205,000	-	-	-	-	-
Martin Dr from Robinson St to just past mid point	-	77,000	-	-	-	-	-	77,000	-	-	-	-	-
Danforth Ave From Oak St to Hayward Phase I	-	480,000	-	-	-	-	-	480,000	-	-	-	-	-
Danforth Ave from Hayward to Seacliff Dr E Pahse II	-	291,000	-	-	-	-	-	291,000	-	-	-	-	-
Bryon St and Warren Ave	-	160,000	-	-	-	-	-	160,000	-	-	-	-	-
Maxon St/ Sherman St and James St	-	386,000	-	-	-	-	-	386,000	-	-	-	-	-
<b>Lifecycle:</b>													
Meter Replacements	-	3,537,000	-	3,537,000	-	-	-	-	-	-	-	-	-
Replace Unit #61 - Heavy Duty Truck	60,000	-	-	-	-	-	-	-	-	-	-	-	-
Replace units # 59 & 71 Heavy Duty Truck	-	102,000	102,000	-	-	-	-	-	-	-	-	-	-
Replace Unit # 63	-	52,000	-	52,000	-	-	-	-	-	-	-	-	-
Replace unit # 58	-	53,000	-	-	53,000	-	-	-	-	-	-	-	-
Lighting & Bay Doors	-	18,000	18,000	-	-	-	-	-	-	-	-	-	-
Water Facilities, Vehicles & Equipment	-	567,000	-	-	-	-	-	109,000	111,000	113,000	116,000	118,000	
Water Hydrants	-	990,000	-	-	-	-	-	190,000	194,000	198,000	202,000	206,000	
Watermains	-	3,326,000	-	-	-	-	-	639,000	652,000	665,000	678,000	692,000	
Water Service Connection	-	2,624,000	-	-	-	-	-	504,000	514,000	525,000	535,000	546,000	
Water Valves	-	1,109,000	-	-	-	-	-	213,000	217,000	222,000	226,000	231,000	
<b>Total Capital Expenditures</b>	<b>1,883,000</b>	<b>20,627,000</b>	<b>1,474,000</b>	<b>6,024,000</b>	<b>1,499,000</b>	<b>1,346,000</b>	<b>1,610,000</b>	<b>1,666,000</b>	<b>1,699,000</b>	<b>1,735,000</b>	<b>1,769,000</b>	<b>1,805,000</b>	

Description	Budget 2015	Total	Forecast										
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Capital Financing</b>													
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-	-	-
Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-	-
Operating Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Meter Replacement Reserve	-	3,537,000	-	3,537,000	-	-	-	-	-	-	-	-	-
Wheatley Watermain Reserve	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Reserve	1,883,000	17,090,000	1,474,000	2,487,000	1,499,000	1,346,000	1,610,000	1,666,000	1,699,000	1,735,000	1,769,000	1,805,000	
<b>Total Capital Financing</b>	<b>1,883,000</b>	<b>20,627,000</b>	<b>1,474,000</b>	<b>6,024,000</b>	<b>1,499,000</b>	<b>1,346,000</b>	<b>1,610,000</b>	<b>1,666,000</b>	<b>1,699,000</b>	<b>1,735,000</b>	<b>1,769,000</b>	<b>1,805,000</b>	

**Appendix A-2**  
**Municipality of Leamington**  
**Water Service**  
**Schedule of Non-Growth Related Debenture Repayments**  
 Inflated \$

Debenture Year	2015	Principal (Inflated)	Forecast										
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
2016		-	-	-	-	-	-	-	-	-	-	-	-
2017		-	-	-	-	-	-	-	-	-	-	-	-
2018		-	-	-	-	-	-	-	-	-	-	-	-
2019		-	-	-	-	-	-	-	-	-	-	-	-
2020		-	-	-	-	-	-	-	-	-	-	-	-
2021		-	-	-	-	-	-	-	-	-	-	-	-
2022		-	-	-	-	-	-	-	-	-	-	-	-
2023		-	-	-	-	-	-	-	-	-	-	-	-
2024		-	-	-	-	-	-	-	-	-	-	-	-
2025		-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Annual Debt Charges</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



**Appendix A-3  
Municipality of Leamington  
Water Service  
Schedule of Growth Related Debenture Repayments  
Inflated \$**

Debenture Year	2015	Principal (Inflated)	Forecast										
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
2016		-		-	-	-	-	-	-	-	-	-	-
2017		-			-	-	-	-	-	-	-	-	-
2018		-				-	-	-	-	-	-	-	-
2019		-					-	-	-	-	-	-	-
2020		-						-	-	-	-	-	-
2021		-							-	-	-	-	-
2022		-								-	-	-	-
2023		-									-	-	-
2024		-										-	-
2025		-											-
<b>Total Annual Debt Charges</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

**Appendix A-4  
Municipality of Leamington  
Water Service  
Water Line Renewals Reserve Fund Continuity  
Inflated \$**

Description	2015		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	3,845,376		3,004,305	2,927,337	1,951,475	2,323,030	2,991,616	3,546,108	4,204,298	4,999,326	5,939,096	7,042,665
Transfer from Operating	1,343,769		1,360,892	1,487,046	1,841,875	1,977,652	2,120,714	2,272,285	2,432,308	2,601,447	2,785,623	2,985,389
Transfer to Capital	1,883,000		1,474,000	2,487,000	1,499,000	1,346,000	1,610,000	1,666,000	1,699,000	1,735,000	1,769,000	1,805,000
Transfer to Operating	301,840		-	-	-	-	-	-	-	-	-	-
Closing Balance	3,004,305		2,891,197	1,927,383	2,294,351	2,954,682	3,502,329	4,152,393	4,937,606	5,865,774	6,955,719	8,223,054
Interest			36,140	24,092	28,679	36,934	43,779	51,905	61,720	73,322	86,946	102,788

**Appendix A-5  
Municipality of Leamington  
Water Service  
Wheatley Watermain Reserve Fund Continuity  
Inflated \$**

Description	2015		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	156,081		162,601	171,235	179,977	188,828	197,790	206,864	216,051	225,353	234,772	244,308
Transfer from Operating	6,520		6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520
Transfer to Capital			-	-	-	-	-	-	-	-	-	-
Transfer to Operating			-	-	-	-	-	-	-	-	-	-
Closing Balance	162,601		169,121	177,755	186,497	195,348	204,310	213,384	222,571	231,873	241,292	250,828
Interest			2,114	2,222	2,331	2,442	2,554	2,667	2,782	2,898	3,016	3,135

**Appendix A-6**  
**Municipality of Leamington**  
**Water Service**  
**Water Meter Replacement Reserve Fund Continuity**  
 Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	1,813,234	2,190,442	2,609,335	(538,246)	(339,013)	(131,886)	83,367	306,984	539,211	780,297	1,030,983
Transfer from Operating	377,208	386,679	396,064	203,419	208,755	214,224	219,827	225,570	231,454	237,958	245,088
Transfer to Capital	-	-	3,537,000	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-
Closing Balance	2,190,442	2,577,121	(531,601)	(334,827)	(130,258)	82,338	303,194	532,554	770,664	1,018,255	1,276,072
Interest	-	32,214	(6,645)	(4,185)	(1,628)	1,029	3,790	6,657	9,633	12,728	15,951

**Appendix A-7**  
**Municipality of Leamington**  
**Water Service**  
**Water Development Charges Reserve Fund Continuity**  
 Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	5,182,916	5,128,193	5,444,798	5,770,397	6,125,677	6,491,047	6,866,765	7,252,507	7,649,077	8,056,703	8,522,577
Development Charge Proceeds	-	-	15,165	67,359	68,694	70,071	70,917	72,342	73,770	121,579	122,875
Development Charge Proceeds - Greenhouses	106,700	108,834	111,011	113,231	115,496	117,805	120,162	122,565	125,016	127,516	130,067
Transfer from Operating (Non-Greenhouse Discounts)	35,170	45,335	31,063	-	-	-	-	-	-	-	-
Transfer from Operating (Greenhouse Discount)	93,350	95,217	97,121	99,064	101,045	103,066	105,127	107,230	109,374	111,562	113,793
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-
Transfer to Operating - Repayment of Internal Loan from Water Rates	353,254	-	-	-	-	-	-	-	-	-	-
Closing Balance	5,064,882	5,377,578	5,699,158	6,050,051	6,410,911	6,781,990	7,162,970	7,554,644	7,957,238	8,417,360	8,889,312
Interest	63,311	67,220	71,239	75,626	80,136	84,775	89,537	94,433	99,465	105,217	111,116
Required from Development Charges	-	-	-	-	-	-	-	-	-	-	-

**Appendix A-8**  
**Municipality of Leamington**  
**Water Service**  
**Water Lifecycle Reserve Fund Continuity**  
 Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	-	-	-	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-
Closing Balance	-	-	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-	-

**Appendix A-9  
Municipality of Leamington  
Water Services  
Operating Budget Forecast  
Inflated \$**

Description	Budget 2015	Forecast										
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Expenditures</b>												
<b>Operating Costs</b>												
<b>Wages</b>												
Salaried Wages	533,810	544,500	555,400	566,500	577,800	589,400	601,200	613,200	625,500	638,000	650,800	
Regular Full Time	-	-	-	-	-	-	-	-	-	-	-	
Part-Time Wage Base Account	37,500	38,300	39,100	39,900	40,700	41,500	42,300	43,100	44,000	44,900	45,800	
Honorarium	10,410	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000	12,200	12,400	
Overtime	45,000	45,900	46,800	47,700	48,700	49,700	50,700	51,700	52,700	53,800	54,900	
Shift Premium	500	500	500	500	500	500	500	500	500	500	500	
Union Business	1,250	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	
Lieu Time Banked	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Compassionate Leave	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	
Sick Leave	19,800	20,200	20,600	21,000	21,400	21,800	22,200	22,600	23,100	23,600	24,100	
Long Service Pay	960	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Standby Pay	900	900	900	900	900	900	900	900	900	900	900	
Vacation Pay	44,120	45,000	45,900	46,800	47,700	48,700	49,700	50,700	51,700	52,700	53,800	
Vacation Pay - Part Time	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	
Statutory Holiday Pay	27,700	28,300	28,900	29,500	30,100	30,700	31,300	31,900	32,500	33,200	33,900	
Management Wage Allocations	95,746	97,700	99,700	101,700	103,700	105,800	107,900	110,100	112,300	114,500	116,800	
Internal Wage Allocations	(421,330)	(429,800)	(438,400)	(447,200)	(456,100)	(465,200)	(474,500)	(484,000)	(493,700)	(503,600)	(513,700)	
Depart Part-Time Allocation	(37,610)	(38,400)	(39,200)	(40,000)	(40,800)	(41,600)	(42,400)	(43,200)	(44,100)	(45,000)	(45,900)	
Job Burden-Wage Allocation	(273,880)	(279,400)	(285,000)	(290,700)	(296,500)	(302,400)	(308,400)	(314,600)	(320,900)	(327,300)	(333,800)	
Job Burden-Part Time Wage	(62,890)	(64,100)	(65,400)	(66,700)	(68,000)	(69,400)	(70,800)	(72,200)	(73,600)	(75,100)	(76,600)	
CPP	22,320	22,800	23,300	23,800	24,300	24,800	25,300	25,800	26,300	26,800	27,300	
EI	11,730	12,000	12,200	12,400	12,600	12,900	13,200	13,500	13,800	14,100	14,400	
EHT	12,260	12,500	12,800	13,100	13,400	13,700	14,000	14,300	14,600	14,900	15,200	
Extended Health	44,070	45,000	45,900	46,800	47,700	48,700	49,700	50,700	51,700	52,700	53,800	
Benefits - Complex Membership	300	300	300	300	300	300	300	300	300	300	300	
WSIB	17,810	18,200	18,600	19,000	19,400	19,800	20,200	20,600	21,000	21,400	21,800	
OMERS	64,800	66,100	67,400	68,700	70,100	71,500	72,900	74,400	75,900	77,400	78,900	
Life & LTD	16,300	16,600	16,900	17,200	17,500	17,900	18,300	18,700	19,100	19,500	19,900	
Retiree Benefits	18,050	18,400	18,800	19,200	19,600	20,000	20,400	20,800	21,200	21,600	22,000	
Benefits Part Time	3,750	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	
Internal Benefit Allocation	14,744	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700	
<b>Rents and Services</b>												
Office Supplies	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	
Dues, Memberships and Subscriptions	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	
Travel & Mileage	500	500	500	500	500	500	500	500	500	500	500	
Training	11,800	12,000	12,200	12,400	12,600	12,900	13,200	13,500	13,800	14,100	14,400	
Conferences	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
Recruitment Expenses	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Uniforms & Clothing	9,000	9,200	9,400	9,600	9,800	10,000	10,200	10,400	10,600	10,800	11,000	
Sundry Expenses	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Professional Services	45,900	45,900	46,800	47,700	48,700	49,700	50,700	51,700	52,700	53,800	54,900	
Service Contracts	323,470	329,900	336,500	343,200	350,100	357,100	364,200	371,500	378,900	386,500	394,200	
Water Purchase from UWSS	3,902,117	4,003,900	4,173,400	4,349,100	4,531,200	4,719,000	4,912,400	5,111,600	5,316,900	5,530,900	5,753,900	
<b>Office Overhead</b>												
Telecommunications Usage	8,700	8,900	9,100	9,300	9,500	9,700	9,900	10,100	10,300	10,500	10,700	
Advertising & Promotion	750	800	800	800	800	800	800	800	800	800	800	
Insurance - Liability	70,050	71,500	72,900	74,400	75,900	77,400	78,900	80,500	82,100	83,700	85,400	
Internal Overhead Allocation	42,957	43,800	44,700	45,600	46,500	47,400	48,300	49,300	50,300	51,300	52,300	

Description	Budget 2015	Forecast										
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Office Equipment</b>												
Office Equipment Rental/Lease	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
Office Equipment Maintenance	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Tech Hardware Maintenance & Support	-	-	-	-	-	-	-	-	-	-	-	-
Telecommunication Purchases (non TCA)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Telecommunication Maintenance & Support	500	500	500	500	500	500	500	500	500	500	500	500
<b>Building Maintenance</b>												
Total Wages and Benefits	7,750	7,900	8,100	8,300	8,500	8,700	8,900	9,100	9,300	9,500	9,700	9,900
Natural Gas	10,228	10,700	11,200	11,800	12,400	13,000	13,700	14,400	15,100	15,900	16,700	17,500
Electricity	12,699	13,300	14,000	14,700	15,400	16,200	17,000	17,900	18,800	19,700	20,700	21,700
Water	1,205	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300
Building Insurance	2,640	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700
Project Materials	4,000	4,200	4,400	4,600	4,800	5,000	5,300	5,600	5,900	6,200	6,500	6,800
Service Contracts	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900
Garbage Collection	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
<b>Property Maintenance</b>												
Total Wages and Benefits	1,382	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
Project Equipment	100	100	100	100	100	100	100	100	100	100	100	100
<b>Boil Water Advisory Notice</b>												
Total Wages and Benefits	3,530	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600
Project Materials	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000	6,100
<b>Water Meter Maintenance</b>												
Total Wages and Benefits	62,818	64,100	65,400	66,700	68,000	69,400	70,800	72,200	73,600	75,100	76,600	78,100
Project Materials	50,000	51,000	52,000	53,000	54,100	55,200	56,300	57,400	58,500	59,700	60,900	62,100
<b>Hydrant Maintenance</b>												
Total Wages and Benefits	73,768	75,200	76,700	78,200	79,800	81,400	83,000	84,700	86,400	88,100	89,900	91,700
Project Materials	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700	18,100	18,400
<b>Health and Safety</b>												
Total Wages and Benefits	3,980	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000	5,100
Project Materials	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100
<b>Watermain Flushing and Maintenance</b>												
Total Wages and Benefits	634,551	647,200	660,100	673,300	686,800	700,500	714,500	728,800	743,400	758,300	773,500	789,000
Project Materials	190,000	193,800	197,700	201,700	205,700	209,800	214,000	218,300	222,700	227,200	231,700	236,300
Project Contracts	6,000	6,100	6,200	6,300	6,400	6,500	6,600	6,700	6,800	6,900	7,000	7,100
<b>Vehicle Maintenance</b>												
Total Wages and Benefits	5,650	5,800	5,900	6,000	6,100	6,200	6,300	6,400	6,500	6,600	6,700	6,800
Vehicle Fuel	30,000	30,600	31,200	31,800	32,400	33,000	33,700	34,400	35,100	35,800	36,500	37,200
Vehicle Maintenance	8,000	8,200	8,400	8,600	8,800	9,000	9,200	9,400	9,600	9,800	10,000	10,200
Vehicle Licence	4,035	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000	5,100
Vehicle Insurance	34,870	35,600	36,300	37,000	37,700	38,500	39,300	40,100	40,900	41,700	42,500	43,300
<b>Equipment Maintenance</b>												
Total Wages and Benefits	2,285	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300
Equipment Fuel	4,500	4,600	4,700	4,800	4,900	5,000	5,100	5,200	5,300	5,400	5,500	5,600
Equipment Insurance	360	400	400	400	400	400	400	400	400	400	400	400
Sub Total Operating	5,861,215	6,003,000	6,213,200	6,430,200	6,654,600	6,885,900	7,123,500	7,367,900	7,619,000	7,879,800	8,150,700	8,432,000

Description	Budget 2015	Forecast										
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Capital-Related</b>												
Existing Debt (Principal) - Growth Related	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Growth Related	-	-	-	-	-	-	-	-	-	-	-	-
New Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-	-	-
New Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt (Principal) - Non-Growth Related	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Non-Growth Related	-	-	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Development Charge - Greenhouse Discount	93,350	95,217	97,121	99,064	101,045	103,066	105,127	107,230	109,374	111,562	113,793	
Transfer to Development Charge - Non-Greenhouse Discount	35,170	45,335	31,063	-	-	-	-	-	-	-	-	
Transfer to Wheatley Watermain Reserve	6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520	6,520	
Transfer to Water Meter Replacement Reserve	377,208	386,679	396,064	203,419	208,755	214,224	219,827	225,570	231,454	237,958	245,088	
Transfer to Water Reserve	1,343,769	1,360,892	1,487,046	1,841,875	1,977,652	2,120,714	2,272,285	2,432,308	2,601,447	2,785,623	2,985,389	
<b>Sub Total Capital Related</b>	<b>1,856,016</b>	<b>1,894,642</b>	<b>2,017,814</b>	<b>2,150,878</b>	<b>2,293,972</b>	<b>2,444,523</b>	<b>2,603,759</b>	<b>2,771,627</b>	<b>2,948,795</b>	<b>3,141,662</b>	<b>3,350,791</b>	
<b>Total Expenditures</b>	<b>7,717,231</b>	<b>7,897,642</b>	<b>8,231,014</b>	<b>8,581,078</b>	<b>8,948,572</b>	<b>9,330,423</b>	<b>9,727,259</b>	<b>10,139,527</b>	<b>10,567,795</b>	<b>11,021,462</b>	<b>11,501,491</b>	
<b>Revenues</b>												
Basic Water Charge	1,841,924	1,885,617	1,931,380	2,182,814	2,240,077	2,298,758	2,358,890	2,420,508	2,483,647	2,553,441	2,629,958	
Water Meter Replacement Charge	377,208	386,679	396,064	203,419	208,755	214,224	219,827	225,570	231,454	237,958	245,088	
Provincial Grant - SECC Student Job Creation	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Provincial Grant - RSJS Rural Summer Jobs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Urban Flat Rate	8,232	8,397	8,565	8,736	8,911	9,089	9,271	9,456	9,645	9,838	10,035	
Flat Rate Fire Line	1,764	1,799	1,835	1,872	1,909	1,948	1,987	2,026	2,067	2,108	2,150	
Private Hydrant Maintenance	1,770	1,805	1,842	1,878	1,916	1,954	1,993	2,033	2,074	2,115	2,158	
Water Service Connection Fee	25,000	25,500	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900	30,500	
Wheatley Surcharge Harbour	6,520	6,700	6,800	6,900	7,000	7,100	7,200	7,300	7,400	7,500	7,700	
Preferred Commercial Metered	267,017	272,357	277,804	283,360	289,028	294,808	300,704	306,718	312,853	319,110	325,492	
Water Buy-in Fee	25,000	25,500	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900	30,500	
Sundry Revenue	368,320	375,700	383,200	390,900	398,700	406,700	414,800	423,100	431,600	440,200	449,000	
Investment Income	35,500	36,200	36,900	37,600	38,400	39,200	40,000	40,800	41,600	42,400	43,200	
Sale of Debentures	-	-	-	-	-	-	-	-	-	-	-	
Other Revenue	-	-	-	-	-	-	-	-	-	-	-	
Contributions from Development Charges Reserve Fund	353,254	-	-	-	-	-	-	-	-	-	-	
Contributions from Deferred Revenue	-	-	-	-	-	-	-	-	-	-	-	
Contributions from Reserves / Reserve Funds	301,840	-	-	-	-	-	-	-	-	-	-	
<b>Total Operating Revenue</b>	<b>3,615,348</b>	<b>3,028,254</b>	<b>3,098,390</b>	<b>3,172,479</b>	<b>3,250,696</b>	<b>3,330,780</b>	<b>3,412,872</b>	<b>3,496,911</b>	<b>3,582,939</b>	<b>3,676,470</b>	<b>3,777,781</b>	
Water Billing Recovery - Operating	4,101,883	4,869,388	5,132,625	5,408,599	5,697,876	5,999,642	6,314,387	6,642,616	6,984,856	7,344,992	7,723,710	
Lifecycle Reserve Contribution (\$)	-	-	-	-	-	-	-	-	-	-	-	
<b>Water Billing Recovery - Total</b>	<b>4,101,883</b>	<b>4,869,388</b>	<b>5,132,625</b>	<b>5,408,599</b>	<b>5,697,876</b>	<b>5,999,642</b>	<b>6,314,387</b>	<b>6,642,616</b>	<b>6,984,856</b>	<b>7,344,992</b>	<b>7,723,710</b>	

**Appendix A-10**  
**Municipality of Leamington**  
**Water Services**  
**Water Rate Forecast**  
 Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Water Billing Recovery	4,101,883	4,869,388	5,132,625	5,408,599	5,697,876	5,999,642	6,314,387	6,642,616	6,984,856	7,344,992	7,723,710
Total Billable Volume including Highbury (m <sup>3</sup> )	6,104,071	6,234,846	6,366,496	6,499,721	6,634,521	6,769,321	6,904,121	7,038,921	7,173,721	7,311,846	7,453,121
<i>Billable Volume Forecast By Block (m<sup>3</sup>)</i>											
Residential and Small Non-Residential	2,140,022	2,145,797	2,152,447	2,160,672	2,170,472	2,180,272	2,190,072	2,199,872	2,209,672	2,222,797	2,239,072
Large Non-Residential	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696	476,696
Regulated Greenhouse	2,243,265	2,368,265	2,493,265	2,618,265	2,743,265	2,868,265	2,993,265	3,118,265	3,243,265	3,368,265	3,493,265
Unregulated Greenhouse	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667	494,667
Unregulated Greenhouse (Over 3 acres)	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622	122,622
Check Total Consumption	5,477,271	5,608,046	5,739,696	5,872,921	6,007,721	6,142,521	6,277,321	6,412,121	6,546,921	6,685,046	6,826,321
<i>Weighted Consumption Forecast By Block (m<sup>3</sup>)</i>											
Residential and Small Non-Residential	2,140,022	2,145,797	2,152,447	2,160,672	2,170,472	2,180,272	2,190,072	2,199,872	2,209,672	2,222,797	2,239,072
Large Non-Residential	521,641	521,641	521,641	521,641	521,641	521,641	521,641	521,641	521,641	521,641	521,641
Regulated Greenhouse	2,454,773	2,591,558	2,728,344	2,865,130	3,001,916	3,138,701	3,275,487	3,412,273	3,549,058	3,685,844	3,822,630
Unregulated Greenhouse	589,360	589,360	589,360	589,360	589,360	589,360	589,360	589,360	589,360	589,360	589,360
Unregulated Greenhouse (Over 3 acres)	292,192	292,192	292,192	292,192	292,192	292,192	292,192	292,192	292,192	292,192	292,192
Check Total Consumption	5,997,987	6,140,548	6,283,984	6,428,995	6,575,580	6,722,166	6,868,752	7,015,337	7,161,923	7,311,834	7,464,895
<b>Rates (\$/m<sup>3</sup>)</b>											
Residential and Small Non-Residential	0.770	0.793	0.817	0.841	0.867	0.893	0.919	0.947	0.975	1.005	1.035
Large Non-Residential	0.842	0.868	0.894	0.921	0.948	0.977	1.006	1.036	1.067	1.099	1.132
Regulated Greenhouse	0.842	0.868	0.894	0.921	0.948	0.977	1.006	1.036	1.067	1.099	1.132
Unregulated Greenhouse	0.917	0.945	0.973	1.002	1.032	1.063	1.095	1.128	1.162	1.197	1.233
Unregulated Greenhouse (Over 3 acres)	1.835	1.890	1.946	2.005	2.065	2.127	2.191	2.256	2.324	2.394	2.465

## **Appendix B – Wastewater Service**

**Appendix B-1  
Municipality of Leamington  
Wastewater Service  
Capital Budget Forecast  
Inflated \$**

Description	Budget 2015	Total	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Capital Expenditures</b>												
<b>Sewers</b>												
Wilousa - Seneca Sewer Upgrades	180,000	-	-	-	-	-	-	-	-	-	-	-
Erie - Oak to Askew Construction	382,000	-	-	-	-	-	-	-	-	-	-	-
Erie South Storm Outfall	175,000	-	-	-	-	-	-	-	-	-	-	-
Pelee Dr/Bevel Line Sanitary	335,000	7,037,000	332,000	2,185,000	2,133,000	2,387,000	-	-	-	-	-	-
Marlborough/Chestnut/Fox	5,000	694,000	418,000	276,000	-	-	-	-	-	-	-	-
Sturgeon Meadows Pond	117,000	-	-	-	-	-	-	-	-	-	-	-
Northeast Trunk Sanitary- Design	200,000	-	-	-	-	-	-	-	-	-	-	-
Erie S/Conover/Stewart/Forest	-	965,000	260,000	-	212,000	493,000	-	-	-	-	-	-
Westmoreland/Churchill/Fuller/Lamarsh	-	808,000	189,000	317,000	302,000	-	-	-	-	-	-	-
<b>Wastewater PCC</b>												
Install 4th Screw Pumps Lower & Upper	538,771	-	-	-	-	-	-	-	-	-	-	-
Outfall Sewer Manhole construction	195,000	-	-	-	-	-	-	-	-	-	-	-
Fire detection	70,000	-	-	-	-	-	-	-	-	-	-	-
Biosolids upgrades	405,000	-	-	-	-	-	-	-	-	-	-	-
Wastewater Other M&E Purchases	40,000	-	-	-	-	-	-	-	-	-	-	-
Biosolids (CSP mixer, cyclone, drum)	-	1,658,000	1,658,000	-	-	-	-	-	-	-	-	-
Wastewater Other M&E Purchases	-	4,686,000	41,000	-	541,000	552,000	563,000	574,000	586,000	598,000	609,000	622,000
Lower Bearings for Upper Screw Pumps	-	51,000	51,000	-	-	-	-	-	-	-	-	-
Upper Bearings for Lower Screw Pumps	-	112,000	112,000	-	-	-	-	-	-	-	-	-
Outfall inspection (pipe and crib) and root cutting	-	102,000	102,000	-	-	-	-	-	-	-	-	-
Property Purchase	400,000	-	-	-	-	-	-	-	-	-	-	-
Biosolids Upgrade	-	3,121,000	-	3,121,000	-	-	-	-	-	-	-	-
Concrete repairs for primary clarifier launders	-	146,000	-	146,000	-	-	-	-	-	-	-	-
Replace pumping station control panels	-	171,000	-	42,000	42,000	43,000	44,000	-	-	-	-	-
Clean out connections for primary sludge lines	-	62,000	-	62,000	-	-	-	-	-	-	-	-
Painting clarifier mechanisms (done in 2011)	-	324,000	-	-	106,000	108,000	110,000	-	-	-	-	-
<b>Lifecycle:</b>												
Wastewater (Sanitary) Facilities	-	-	-	-	-	-	-	-	-	-	-	-
Combined Sewers	-	23,796,000	-	-	-	-	3,772,000	3,848,000	3,925,000	4,003,000	4,083,000	4,165,000
Sanitary Sewers	-	1,188,000	-	-	-	-	188,000	192,000	196,000	200,000	204,000	208,000
<b>Growth Related:</b>												
PCC Phase 7 (b)	160,000	-	-	-	-	-	-	-	-	-	-	-
PCC Phase 7 (c)	-	1,734,000	1,734,000	-	-	-	-	-	-	-	-	-
<b>Total Capital Expenditures</b>	<b>3,202,771</b>	<b>46,655,000</b>	<b>4,897,000</b>	<b>6,149,000</b>	<b>3,336,000</b>	<b>3,583,000</b>	<b>4,677,000</b>	<b>4,614,000</b>	<b>4,707,000</b>	<b>4,801,000</b>	<b>4,896,000</b>	<b>4,995,000</b>
<b>Capital Financing</b>												
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-	-
Transfer from Urban Tax Rate*	1,394,000	34,488,000	1,199,000	2,778,000	2,647,000	2,880,000	3,960,000	4,040,000	4,121,000	4,203,000	4,287,000	4,373,000
Development Charges Reserve Fund	48,944	530,435	530,435	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Operating Contributions	-	-	-	-	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	-
Wastewater Reserve	1,759,827	11,636,565	3,167,565	3,371,000	689,000	703,000	717,000	574,000	586,000	598,000	609,000	622,000
<b>Total Capital Financing</b>	<b>3,202,771</b>	<b>46,655,000</b>	<b>4,897,000</b>	<b>6,149,000</b>	<b>3,336,000</b>	<b>3,583,000</b>	<b>4,677,000</b>	<b>4,614,000</b>	<b>4,707,000</b>	<b>4,801,000</b>	<b>4,896,000</b>	<b>4,995,000</b>

\* Items recovered from the Urban Tax Rate



**Appendix B-2**  
**Municipality of Leamington**  
**Wastewater Service**  
**Schedule of Non-Growth Related Debenture Repayments**  
 Inflated \$

Debenture Year	2015	Principal (Inflated)	Forecast										
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
2016		-		-	-	-	-	-	-	-	-	-	-
2017		-			-	-	-	-	-	-	-	-	-
2018		-				-	-	-	-	-	-	-	-
2019		-					-	-	-	-	-	-	-
2020		-						-	-	-	-	-	-
2021		-							-	-	-	-	-
2022		-								-	-	-	-
2023		-									-	-	-
2024		-										-	-
2025		-											-
<b>Total Annual Debt Charges</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

**Appendix B-3**  
**Municipality of Leamington**  
**Wastewater Service**  
**Schedule of Growth Related Debenture Repayments**  
 Inflated \$

Debenture Year	2015	Principal (Inflated)	Forecast										
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
2016		-		-	-	-	-	-	-	-	-	-	-
2017		-			-	-	-	-	-	-	-	-	-
2018		-				-	-	-	-	-	-	-	-
2019		-					-	-	-	-	-	-	-
2020		-						-	-	-	-	-	-
2021		-							-	-	-	-	-
2022		-								-	-	-	-
2023		-									-	-	-
2024		-										-	-
2025		-											-
<b>Total Annual Debt Charges</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

**Appendix B-4  
Municipality of Leamington  
Wastewater Service  
Wastewater PCC Reserve Fund Continuity  
Inflated \$**

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	8,392,698	7,238,832	4,629,890	2,539,017	3,418,201	4,372,450	5,403,720	7,027,798	8,674,408	10,342,019	12,189,181
Transfer from Operating	1,494,086	1,627,972	1,817,077	2,059,477	2,145,636	2,233,670	2,681,917	2,713,375	2,743,250	2,784,522	3,165,292
Transfer to Capital	1,759,827	3,167,565	3,371,000	689,000	703,000	717,000	574,000	586,000	598,000	609,000	622,000
Loan to Development Charge Reserve Fund	608,125	1,069,349	536,949	491,294	488,387	485,400	483,839	480,765	477,639	328,360	326,049
Transfer to Operating	280,000	-	-	-	-	-	-	-	-	-	-
Closing Balance	7,238,832	4,629,890	2,539,017	3,418,201	4,372,450	5,403,720	7,027,798	8,674,408	10,342,019	12,189,181	14,406,424
Interest	-	57,874	31,738	42,728	54,656	67,546	87,847	108,430	129,275	152,365	180,080

\* Items recovered from the Urban Tax Rate

**Appendix B-5  
Municipality of Leamington  
Wastewater Service  
Wastewater Development Charges Reserve Fund Continuity  
Inflated \$**

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	-	-	-	-	-	-	-	-	-	-	-
Development Charge Proceeds	-	-	31,624	145,784	148,691	151,678	153,239	156,313	159,439	308,718	311,029
Loan from Wastewater PCC Reserve Fund	608,125	1,069,349	536,949	491,294	488,387	485,400	483,839	480,765	477,639	328,360	326,049
Transfer from Operating (Discount & Exemptions)	77,897	98,164	68,504	-	-	-	-	-	-	-	-
Transfer to Capital	48,944	530,435	-	-	-	-	-	-	-	-	-
Transfer to Operating	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078
Closing Balance	-	-	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-	-
Required from Development Charges	48,944	530,435	-	-	-	-	-	-	-	-	-

**Appendix B-6  
Municipality of Leamington  
Wastewater Service  
Wastewater Lifecycle Reserve Fund Continuity  
Inflated \$**

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Opening Balance	-	-	-	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-
Closing Balance	-	-	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-	-

**Appendix B-7  
Municipality of Leamington  
Wastewater Services  
Operating Budget Forecast  
Inflated \$**

Description	Budget	Forecast										
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Expenditures</b>												
<b>Operating Costs - Wastewater - Sewers</b>												
<b>Wages</b>												
Total Salaries and Wages	30,065	30,700	31,300	31,900	32,500	33,200	33,900	34,600	35,300	36,000	36,700	
Total Benefits	6,757	6,900	7,000	7,100	7,200	7,300	7,400	7,500	7,700	7,900	8,100	
<b>Office Overhead</b>												
Operational Supplies	-	-	-	-	-	-	-	-	-	-	-	
Insurance - Liability	11,500	11,700	11,900	12,100	12,300	12,500	12,800	13,100	13,400	13,700	14,000	
Internal Office Overhead Allocation	2,340	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	
Professional Services	10,000	10,200	10,400	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000	
<b>Sanitary and Combined Maintenance</b>												
TOTAL WAGES & BENEFITS	1,650	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	
Project Materials	8,000	8,400	8,800	9,200	9,700	10,200	10,700	11,200	11,800	12,400	13,000	
Project Equipment	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
Project Contracts	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700	18,100	
Project - Homeowner Assistance	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	
<b>Sanitary and Combined Flushing and Inspection</b>												
Project Materials	6,300	6,600	6,900	7,200	7,600	8,000	8,400	8,800	9,200	9,700	10,200	
Project Equipment	500	500	500	500	500	500	500	500	500	500	500	
Project Contracts	125,000	127,500	130,100	132,700	135,400	138,100	140,900	143,700	146,600	149,500	152,500	
<b>Sanitary and Combined Connection Repair</b>												
Project Materials	10,000	10,500	11,000	11,600	12,200	12,800	13,400	14,100	14,800	15,500	16,300	
Project Equipment	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	
Project Contracts	38,000	38,800	39,600	40,400	41,200	42,000	42,800	43,700	44,600	45,500	46,400	
<b>Storm Sewer Maintenance</b>												
Project Materials	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	
Project Equipment	100	100	100	100	100	100	100	100	100	100	100	
Project Contracts	443,000	451,900	460,900	470,100	479,500	489,100	498,900	508,900	519,100	529,500	540,100	
Service Contracts	60,000	61,200	62,400	63,600	64,900	66,200	67,500	68,900	70,300	71,700	73,100	
<b>Storm Sewer Flushing and Inspection</b>												
Project Materials	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	
Project Equipment	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Project Contracts	14,000	14,300	14,600	14,900	15,200	15,500	15,800	16,100	16,400	16,700	17,000	
<b>Storm Sewer Connection Repair</b>												
Project Materials	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	
Project Equipment	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Project Contracts	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400	3,500	
<b>Other Rents and Services</b>												
Res / Farm - Cur Yr Tax Adjmts	25,000	25,500	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900	30,500	
Com / Ind - Cur Yr Tax Adjmts	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000	
Prior Year Tax Adjustments	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700	18,100	

Description	Budget 2015	Forecast									
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Operating Costs - Wastewater - PCC</b>											
<b>Wages</b>											
Salaried Wages	501,620	511,700	521,900	532,300	542,900	553,800	564,900	576,200	587,700	599,500	611,500
Regular Full Time	-	-	-	-	-	-	-	-	-	-	-
Part-Time Wage Base Account	16,000	16,300	16,600	16,900	17,200	17,500	17,900	18,300	18,700	19,100	19,500
Honorarium	-	-	-	-	-	-	-	-	-	-	-
Overtime	-	-	-	-	-	-	-	-	-	-	-
Overtime 2X	97,000	98,900	100,900	102,900	105,000	107,100	109,200	111,400	113,600	115,900	118,200
Shift Premium	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000
Lieu Time Banked	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700	18,100
Compassionate Leave	-	-	-	-	-	-	-	-	-	-	-
Sick Leave	10,000	10,200	10,400	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000
Long Service Pay	660	700	700	700	700	700	700	700	700	700	700
Call Out	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000
Standby Pay	10,000	10,200	10,400	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000
Vacation Pay	37,000	37,700	38,500	39,300	40,100	40,900	41,700	42,500	43,400	44,300	45,200
Vacation Pay - Part Time	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
Statutory Holiday Pay	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900	30,500	31,100	31,700
Management Wage Allocations	95,746	97,700	99,700	101,700	103,700	105,800	107,900	110,100	112,300	114,500	116,800
Internal Wage Allocations	(14,000)	(14,300)	(14,600)	(14,900)	(15,200)	(15,500)	(15,800)	(16,100)	(16,400)	(16,700)	(17,000)
Job Burden-Wage Allocation	(9,100)	(9,300)	(9,500)	(9,700)	(9,900)	(10,100)	(10,300)	(10,500)	(10,700)	(10,900)	(11,100)
CPP	19,840	20,200	20,600	21,000	21,400	21,800	22,200	22,600	23,100	23,600	24,100
EI	10,420	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000	12,200	12,400
EHT	11,010	11,200	11,400	11,600	11,800	12,000	12,200	12,400	12,600	12,900	13,200
Extended Health	42,130	43,000	43,900	44,800	45,700	46,600	47,500	48,500	49,500	50,500	51,500
Benefits - Complex Membership	600	600	600	600	600	600	600	600	600	600	600
WSIB	16,200	16,500	16,800	17,100	17,400	17,700	18,100	18,500	18,900	19,300	19,700
OMERS	58,420	59,600	60,800	62,000	63,200	64,500	65,800	67,100	68,400	69,800	71,200
Life & LTD	14,620	14,900	15,200	15,500	15,800	16,100	16,400	16,700	17,000	17,300	17,600
Retiree Benefits	15,740	16,100	16,400	16,700	17,000	17,300	17,600	18,000	18,400	18,800	19,200
Benefits Part Time	1,680	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
Internal Benefit Allocation	14,744	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700
<b>Rents and Services</b>											
Office Supplies	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Dues, Memberships and Subscriptions	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Travel & Mileage	200	200	200	200	200	200	200	200	200	200	200
Training	6,000	6,100	6,200	6,300	6,400	6,500	6,600	6,700	6,800	6,900	7,000
Conferences	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
Meeting Expenses	-	-	-	-	-	-	-	-	-	-	-
Recruitment Expenses	-	-	-	-	-	-	-	-	-	-	-
Uniforms & Clothing	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900	30,500	31,100	31,700
Operational Supplies	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000
Sundry Expenses	-	-	-	-	-	-	-	-	-	-	-
Service Contracts	17,000	17,300	17,600	18,000	18,400	18,800	19,200	19,600	20,000	20,400	20,800
Professional Services	-	-	-	-	-	-	-	-	-	-	-
Garbage Collection	-	-	-	-	-	-	-	-	-	-	-
Engineering Purchased Services	25,000	25,500	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900	30,500
<b>Office Overhead</b>											
Telecommunications Usage	13,000	13,300	13,600	13,900	14,200	14,500	14,800	15,100	15,400	15,700	16,000
Insurance - Liability	80,490	82,100	83,700	85,400	87,100	88,800	90,600	92,400	94,200	96,100	98,000
Internal Office Overhead Allocation	42,957	43,800	44,700	45,600	46,500	47,400	48,300	49,300	50,300	51,300	52,300
<b>Office Equipment</b>											
Office Equipment Rental/Lease	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
Office Equipment Maintenance	500	500	500	500	500	500	500	500	500	500	500
Tech Hardware Purchases (non TCA)	-	-	-	-	-	-	-	-	-	-	-
Software Licensing & Support	1,250	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
Telecommunication Purchases (non TCA)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500

Description	Budget	Forecast										
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
<b>Building Maintenance</b>												
TOTAL WAGES & BENEFITS	-	-	-	-	-	-	-	-	-	-	-	-
Building Maintenance	12,000	12,200	12,400	12,600	12,900	13,200	13,500	13,800	14,100	14,400	14,700	
Property Maintenance	-	-	-	-	-	-	-	-	-	-	-	
Property Taxes	132,750	135,400	138,100	140,900	143,700	146,600	149,500	152,500	155,600	158,700	161,900	
Building Insurance	34,630	35,300	36,000	36,700	37,400	38,100	38,900	39,700	40,500	41,300	42,100	
Service Contracts	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000	
Garbage Collection	-	-	-	-	-	-	-	-	-	-	-	
<b>Property Maintenance</b>												
Total Wages and Benefits	-	-	-	-	-	-	-	-	-	-	-	
Property Maintenance	21,000	21,400	21,800	22,200	22,600	23,100	23,600	24,100	24,600	25,100	25,600	
Project Contracts	-	-	-	-	-	-	-	-	-	-	-	
<b>Wastewater Treatment Operations</b>												
Natural Gas	85,000	89,300	93,800	98,500	103,400	108,600	114,000	119,700	125,700	132,000	138,600	
Electricity	700,000	735,000	771,800	810,400	850,900	893,400	938,100	985,000	1,034,300	1,086,000	1,140,300	
Water	50,000	52,500	55,100	57,900	60,800	63,800	67,000	70,400	73,900	77,600	81,500	
Building Maintenance	-	-	-	-	-	-	-	-	-	-	-	
Biosolids Disposal	180,000	183,600	187,300	191,000	194,800	198,700	202,700	206,800	210,900	215,100	219,400	
Equipment Rental/Lease	6,000	6,100	6,200	6,300	6,400	6,500	6,600	6,700	6,800	6,900	7,000	
Equipment Maintenance	-	-	-	-	-	-	-	-	-	-	-	
Project Contracts	-	-	-	-	-	-	-	-	-	-	-	
Aluminum Sulphate	116,000	121,800	127,900	134,300	141,000	148,100	155,500	163,300	171,500	180,100	189,100	
Miscellaneous Reagents	7,000	7,100	7,200	7,300	7,400	7,500	7,700	7,900	8,100	8,300	8,500	
Polymers	280,000	294,000	308,700	324,100	340,300	357,300	375,200	394,000	413,700	434,400	456,100	
Ammonia	15,000	15,800	16,600	17,400	18,300	19,200	20,200	21,200	22,300	23,400	24,600	
Laboratory Analysis	20,000	20,400	20,800	21,200	21,600	22,000	22,400	22,800	23,300	23,800	24,300	
Laboratory Materials	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000	
Grit Disposal	40,695	41,500	42,300	43,100	44,000	44,900	45,800	46,700	47,600	48,600	49,600	
Lime	175,000	183,800	193,000	202,700	212,800	223,400	234,600	246,300	258,600	271,500	285,100	
<b>Pump Station Operations</b>												
Total Wages and Benefits	23,100	23,600	24,100	24,600	25,100	25,600	26,100	26,600	27,100	27,600	28,200	
Electricity	18,360	19,300	20,300	21,300	22,400	23,500	24,700	25,900	27,200	28,600	30,000	
Safety Equipment	-	-	-	-	-	-	-	-	-	-	-	
Project Materials	5,000	5,300	5,600	5,900	6,200	6,500	6,800	7,100	7,500	7,900	8,300	
Project Contracts	12,000	12,200	12,400	12,600	12,900	13,200	13,500	13,800	14,100	14,400	14,700	
<b>Vehicle Maintenance</b>												
Total Wages and Benefits	1,650	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	
Vehicle Fuel	9,000	9,500	10,000	10,500	11,000	11,600	12,200	12,800	13,400	14,100	14,800	
Vehicle Maintenance	4,000	4,200	4,400	4,600	4,800	5,000	5,300	5,600	5,900	6,200	6,500	
Vehicle Licence	462	500	500	500	500	500	500	500	500	500	500	
Vehicle Insurance	6,590	6,700	6,800	6,900	7,000	7,100	7,200	7,300	7,400	7,500	7,700	
<b>Equipment Maintenance</b>												
Equipment Rental/Lease	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	
Oil & Lubricants	7,000	7,400	7,800	8,200	8,600	9,000	9,500	10,000	10,500	11,000	11,600	
Equipment Fuel	10,000	10,500	11,000	11,600	12,200	12,800	13,400	14,100	14,800	15,500	16,300	
Vehicle Maintenance	-	-	-	-	-	-	-	-	-	-	-	
Equipment Maintenance	200,000	204,000	208,100	212,300	216,500	220,800	225,200	229,700	234,300	239,000	243,800	
Equipment Insurance	23,780	24,300	24,800	25,300	25,800	26,300	26,800	27,300	27,800	28,400	29,000	
Safety Equipment	6,000	6,100	6,200	6,300	6,400	6,500	6,600	6,700	6,800	6,900	7,000	
<b>Other Rents and Services</b>												
Development Charges Discount	92,000	93,800	95,700	97,600	99,600	101,600	103,600	105,700	107,800	110,000	112,200	
Septic Tank Clean Out	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
Sub Total Operating	4,379,756	4,512,600	4,649,700	4,791,500	4,938,800	5,091,500	5,250,500	5,415,700	5,587,100	5,765,100	5,950,100	

Description	Budget	Forecast									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Capital-Related</b>											
Existing Debt (Principal) - Growth Related (WPCC)	366,119	380,019	394,447	409,425	424,972	441,110	457,862	475,251	493,301	512,039	531,489
Existing Debt (Interest) - Growth Related (WPCC)	270,959	257,059	242,631	227,653	212,106	195,968	179,216	161,827	143,776	125,039	105,589
Existing Debt (Principal) - Non-Growth Related (WPCC)	573,053	597,276	622,717	649,147	676,800	705,648	372,822	387,301	402,427	418,164	104,434
Existing Debt (Interest) - Non-Growth Related (WPCC)	234,225	210,002	184,562	158,132	130,478	101,630	75,540	61,060	45,935	30,197	17,390
New Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-	-
New Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-	-
Existing Debt (Principal) - Sewers (Funded from Tax Base)	453,959	473,917	494,762	516,532	539,270	563,019	269,319	280,310	291,755	303,674	157,054
Existing Debt (Interest) - Sewers (Funded from Tax Base)	185,302	165,344	144,499	122,729	99,991	76,242	55,082	44,091	32,645	20,726	10,084
Existing Debt (Principal) - Local Improvement - funded from Infrastructure Reserve	13,493	14,168	14,876	15,620	16,401	17,221	18,082	18,986	19,935	-	-
Existing Debt (Interest) - Local Improvement - funded from Infrastructure Reserve	7,439	6,764	6,056	5,312	4,531	3,711	2,850	1,946	997	-	-
Existing Debt (Principal) - Non-Growth Related	-	-	-	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Non-Growth Related	-	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-	-
Transfer to Development Charge - Discount	77,897	98,164	68,504	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-
Transfer to PCC Reserve Fund	1,494,086	1,627,972	1,817,077	2,059,477	2,145,636	2,233,670	2,681,917	2,713,375	2,743,250	2,784,522	3,165,292
<b>Sub Total Capital Related</b>	<b>3,676,533</b>	<b>3,830,685</b>	<b>3,990,131</b>	<b>4,164,027</b>	<b>4,250,185</b>	<b>4,338,220</b>	<b>4,112,689</b>	<b>4,144,147</b>	<b>4,174,022</b>	<b>4,194,361</b>	<b>4,091,333</b>
<b>Total Expenditures</b>	<b>8,056,289</b>	<b>8,343,285</b>	<b>8,639,831</b>	<b>8,955,527</b>	<b>9,188,985</b>	<b>9,429,720</b>	<b>9,363,189</b>	<b>9,559,847</b>	<b>9,761,122</b>	<b>9,959,461</b>	<b>10,041,433</b>
<b>Revenues</b>											
Base Charge	3,031,822	3,196,576	3,367,037	3,551,017	3,683,418	3,820,568	3,962,631	4,069,879	4,179,831	4,306,146	4,450,366
Local Improvement Recoveries	268,350	273,700	279,200	284,800	290,500	296,300	302,200	308,200	314,400	320,700	327,100
Developer Oversizing Contribution	90,295	92,100	93,900	95,800	97,700	99,700	101,700	103,700	105,800	107,900	110,100
Provincial Grant - SECC Student Job Creation	750	750	750	750	750	750	750	750	750	750	750
Provincial Grant - RSJS Rural Summer Job	750	750	750	750	750	750	750	750	750	750	750
Transfer from Urban Works Reserve	843,728	1,134,561	1,145,261	1,156,061	1,167,361	1,178,761	875,700	887,900	900,300	912,900	768,638
Hauled Waste	292,000	297,800	303,800	309,900	316,100	322,400	328,800	335,400	342,100	348,900	355,900
Leachate	72,000	73,400	74,900	76,400	77,900	79,500	81,100	82,700	84,400	86,100	87,800
Overstrength Waste Revenue	240,000	244,800	249,700	254,700	259,800	265,000	270,300	275,700	281,200	286,800	292,500
Sundry Revenue	1,500	1,500	750	750	750	750	750	750	750	750	750
Other Revenue	-	-	-	-	-	-	-	-	-	-	-
Highbury Sewer Surcharge	720,000	734,400	749,088	764,070	779,351	794,938	810,837	827,054	843,595	860,467	877,676
Contributions from Infrastructure Reserve Fund - Local Improvements	20,932	20,932	20,932	20,932	20,932	20,932	20,932	20,932	20,932	-	-
Contributions from Development Charges Reserve Fund	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078	637,078
Contributions from Reserves / Reserve Funds	280,000	-	-	-	-	-	-	-	-	-	-
<b>Total Operating Revenue</b>	<b>6,499,205</b>	<b>6,708,348</b>	<b>6,923,146</b>	<b>7,153,008</b>	<b>7,332,391</b>	<b>7,517,427</b>	<b>7,393,528</b>	<b>7,550,793</b>	<b>7,711,887</b>	<b>7,869,241</b>	<b>7,909,408</b>
Wastewater Billing Recovery - Operating	1,557,084	1,634,938	1,716,685	1,802,519	1,856,595	1,912,292	1,969,661	2,009,054	2,049,235	2,090,220	2,132,025
Lifecycle Reserve Contribution (\$)	-	-	-	-	-	-	-	-	-	-	-
<b>Wastewater Billing Recovery - Total</b>	<b>1,557,084</b>	<b>1,634,938</b>	<b>1,716,685</b>	<b>1,802,519</b>	<b>1,856,595</b>	<b>1,912,292</b>	<b>1,969,661</b>	<b>2,009,054</b>	<b>2,049,235</b>	<b>2,090,220</b>	<b>2,132,025</b>

\* Items recovered from the Urban Tax Rate

**Appendix B-8**  
**Municipality of Leamington**  
**Wastewater Services**  
**Wastewater Rate Forecast**  
 Inflated \$

Description	2015	Existing	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Wastewater Billing Recovery	1,557,084		1,634,938	1,716,685	1,802,519	1,856,595	1,912,292	1,969,661	2,009,054	2,049,235	2,090,220	2,132,025
<b>Increasing Block Structure</b>												
<i>Consumption Forecast By Block (m3)</i>												
Block 1	1,033,605		1,038,155	1,041,655	1,046,555	1,054,430	1,062,305	1,070,180	1,078,055	1,085,930	1,097,480	1,112,880
Block 2	811,177		811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177	811,177
Check Total Consumption	1,844,782		1,849,332	1,852,832	1,857,732	1,865,607	1,873,482	1,881,357	1,889,232	1,897,107	1,908,657	1,924,057
<b>Increasing Block Rates (\$/m<sup>3</sup>)</b>												
<b>Block 1 (includes 20.91m<sup>3</sup> per month)</b>	-		-	-	-	-	-	-	-	-	-	-
<b>Block 2</b>	<b>1.920</b>	<b>1.920</b>	<b>2.016</b>	<b>2.116</b>	<b>2.222</b>	<b>2.289</b>	<b>2.357</b>	<b>2.428</b>	<b>2.477</b>	<b>2.526</b>	<b>2.577</b>	<b>2.628</b>
Check Revenue												
Block 1	-		-	-	-	-	-	-	-	-	-	-
Block 2	1,557,084		1,634,938	1,716,685	1,802,519	1,856,595	1,912,292	1,969,661	2,009,054	2,049,235	2,090,220	2,132,025
Check Total Revenue	1,557,084		1,634,938	1,716,685	1,802,519	1,856,595	1,912,292	1,969,661	2,009,054	2,049,235	2,090,220	2,132,025
Percentage Increase - Rate	-		5%	5%	5%	3%	3%	3%	2%	2%	2%	2%