

Table 1
Township of Mapleton
Drayton Water Service
Capital Budget Forecast
 Inflated \$

Description	Total	Budget 2015	Forecast								
			2016	2017	2018	2019	2020	2021	2022	2023	2024
Capital Expenditures											
Utility Locating Equipment	5,000	5,000	-	-	-	-	-	-	-	-	-
Chlorine Pump	1,800	1,800	-	-	-	-	-	-	-	-	-
Repair Chlorine Pump (s/b operating - yes)	500	500	-	-	-	-	-	-	-	-	-
Distribution Header Maintenance & Flow Meter	15,000	15,000	-	-	-	-	-	-	-	-	-
Well Pump VFDs	14,500	14,500	-	-	-	-	-	-	-	-	-
High Lift Pump VFDs	18,000	18,000	-	-	-	-	-	-	-	-	-
Update Alarm System	5,000	5,000	-	-	-	-	-	-	-	-	-
Parallel Chlorine Analyzers	5,000	5,000	-	-	-	-	-	-	-	-	-
Install SCADA system	60,000	60,000	-	-	-	-	-	-	-	-	-
Hydrant Repairs	50,000	50,000	-	-	-	-	-	-	-	-	-
Install Bypass Header	5,000	5,000	-	-	-	-	-	-	-	-	-
Rate Study and Financial Plan	9,500	4,000	-	-	-	-	5,500	-	-	-	-
Provision for Future Capital - Facilities	625,100	-	-	72,800	74,300	75,800	77,300	78,800	80,400	82,000	83,700
Provision for Future Capital - Mains	267,900	-	-	31,200	31,800	32,500	33,100	33,800	34,500	35,100	35,900
Growth Related											
Water Standpipe/Tower	2,545,000	250,000	2,295,000	-	-	-	-	-	-	-	-
Operations/Maintenance Facility (share)	20,625	20,625	-	-	-	-	-	-	-	-	-
Main St Bridge, Well, Rd 8 Drayton Looping	204,000	-	204,000	-	-	-	-	-	-	-	-
Total Capital Expenditures	3,851,925	454,425	2,499,000	104,000	106,100	108,300	115,900	112,600	114,900	117,100	119,600
Capital Financing											
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	1,417,800	-	1,417,800	-	-	-	-	-	-	-	-
Development Charges Reserve Fund	170,625	170,625	-	-	-	-	-	-	-	-	-
Reserve - Drayton Water (35460)	-	-	-	-	-	-	-	-	-	-	-
Reserve - Waterworks Drayton (35250)	605,229	172,500	432,729	-	-	-	-	-	-	-	-
Reserve - Drayton Serviced Water and Sewer (35420) - Water Only	130,610	100,000	30,610	-	-	-	-	-	-	-	-
Water Lifecycle Reserve Fund - Mains & Facilities (35440 & 35445)	1,527,661	11,300	617,861	104,000	106,100	108,300	115,900	112,600	114,900	117,100	119,600
Total Capital Financing	3,851,925	454,425	2,499,000	104,000	106,100	108,300	115,900	112,600	114,900	117,100	119,600

Table 2
Township of Mapleton
Drayton Water Service
Schedule of Non-Growth Related Debenture Repayments
 Inflated \$

Debenture Year	Principal (Inflated)	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
2015	-		-	-	-	-	-	-	-	-	-	-
2016	-		-	-	-	-	-	-	-	-	-	-
2017	-		-	-	-	-	-	-	-	-	-	-
2018	-		-	-	-	-	-	-	-	-	-	-
2019	-		-	-	-	-	-	-	-	-	-	-
2020	-		-	-	-	-	-	-	-	-	-	-
2021	-		-	-	-	-	-	-	-	-	-	-
2022	-		-	-	-	-	-	-	-	-	-	-
2023	-		-	-	-	-	-	-	-	-	-	-
2024	-		-	-	-	-	-	-	-	-	-	-
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

Table 3
Township of Mapleton
Drayton Water Service
Schedule of Growth Related Debenture Repayments
 Inflated \$

Debenture Year	Principal (Inflated)	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
2015	-		-	-	-	-	-	-	-	-	-	-
2016	1,417,800		-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324
2017	-		-	-	-	-	-	-	-	-	-	-
2018	-		-	-	-	-	-	-	-	-	-	-
2019	-		-	-	-	-	-	-	-	-	-	-
2020	-		-	-	-	-	-	-	-	-	-	-
2021	-		-	-	-	-	-	-	-	-	-	-
2022	-		-	-	-	-	-	-	-	-	-	-
2023	-		-	-	-	-	-	-	-	-	-	-
2024	-		-	-	-	-	-	-	-	-	-	-
Total Annual Debt Charges	1,417,800	-	-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324

Table 4
Township of Mapleton
Drayton Water Service
Water Reserves/ Reserve Funds Continuity
 Inflated \$

Development Charges Reserve Fund - Drayton	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	195,432	95,521	168,469	138,150	108,945	80,907	54,061	28,462	4,170	(18,790)
Development Charge Proceeds	69,617	71,013	72,418	73,868	75,356	76,858	78,398	79,984	81,580	83,214
Transfer to Capital	170,625	-	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324
Closing Balance	94,424	166,534	136,563	107,694	79,977	53,440	28,135	4,122	(18,574)	(39,901)
Interest	1,097	1,935	1,587	1,251	929	621	327	48	(216)	(464)
Required from Development Charges	170,625	1,417,800	-	-	-	-	-	-	-	-

Reserve Fund - Drayton Serviced Water and Sewer (35420) - Water Only	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	130,258	30,610	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	100,000	30,610	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	30,258	-	-	-	-	-	-	-	-	-
Interest	352	-	-	-	-	-	-	-	-	-

Reserve - Waterworks Drayton (35250)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	461,481	288,981	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-
Transfer from Reserve 35460	-	143,748	-	-	-	-	-	-	-	-
Transfer to Capital	172,500	432,729	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	288,981	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-

Reserve Fund - Drayton Water (35460)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	143,748	143,748	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-
Transfer to Reserve 35250	-	143,748	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	143,748	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-

Water Lifecycle Reserve Fund - Drayton Mains and Facilities (35440 & 35445)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	492,311	676,101	251,522	351,033	458,761	574,798	693,982	827,385	969,522	1,120,714
Transfer from Operating	189,759	190,392	199,479	208,558	217,734	227,112	236,499	245,899	255,419	264,865
Transfer to Capital	11,300	617,861	104,000	106,100	108,300	115,900	112,600	114,900	117,100	119,600
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	670,770	248,633	347,001	453,491	568,195	686,010	817,881	958,385	1,107,841	1,265,979
Interest	5,331	2,889	4,032	5,270	6,603	7,972	9,504	11,137	12,874	14,711

Table 5
Township of Mapleton
Drayton Water Services
Operating Budget Forecast
 Inflated \$

Description	Budget 2015	Forecast								
		2016	2017	2018	2019	2020	2021	2022	2023	2024
EXPENDITURES										
Operating Costs										
<u>Wages and Benefits</u>										
Wages/Salary	19,540	19,900	20,300	20,700	21,100	21,500	21,900	22,300	22,700	23,200
Canada Pension	580	600	600	600	600	600	600	600	600	600
Employment Insurance	300	300	300	300	300	300	300	300	300	300
Workplace Safety and Insurance	390	400	400	400	400	400	400	400	400	400
RSP/OMERS	430	400	400	400	400	400	400	400	400	400
Employee Health Tax	380	400	400	400	400	400	400	400	400	400
Benefits	640	700	700	700	700	700	700	700	700	700
<u>Materials, Supplies, Services, Rents</u>										
Mileage/Travel/Meal Expenses	50	100	100	100	100	100	100	100	100	100
Education/Seminars/Convention	950	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Membership Fees	420	400	400	400	400	400	400	400	400	400
Insurance	2,310	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,200	3,400
Utilities	23,310	24,500	25,700	27,000	28,400	29,800	31,300	32,900	34,500	36,200
Telephone/Communications	1,850	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900
Postage/Courier Service	1,760	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
Advertising	570	600	600	600	600	600	600	600	600	600
Materials and Supplies	1,170	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Repairs and Maintenance	6,830	7,000	7,100	7,200	7,300	7,400	7,500	7,700	7,900	8,100
Computer - Maintenance	340	300	300	300	300	300	300	300	300	300
Metering Software	510	500	500	500	500	500	500	500	500	500
Equipment - Maintenance	3,490	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400
Equipment - Parts/Tools	290	300	300	300	300	300	300	300	300	300
Building Maintenance	160	200	200	200	200	200	200	200	200	200
Building and Property Taxes	2,360	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Dept. Clothing and Apparel	240	200	200	200	200	200	200	200	200	200
Miscellaneous	1,040	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
<u>Operations, Testing, Maintenance</u>										
Contracts	74,850	86,100	87,800	89,600	91,400	93,200	95,100	97,000	98,900	100,900
Additional Services - Operator	8,320	8,500	8,700	8,900	9,100	9,300	9,500	9,700	9,900	10,100
Engineer Expense	2,250	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300
Sample Testing	2,080	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
Studies/Reports	900	900	900	900	900	900	900	900	900	900
Line Maintenance	1,910	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900
Metering Reading	204	200	200	200	200	200	200	200	200	200
Sub Total Operating	160,424	174,200	178,000	182,000	186,100	190,200	194,500	199,000	203,600	208,500

Capital-Related											
<i>Debentures</i>											
New Growth Related Debt (Principal)	-	-	51,497	53,557	55,700	57,928	60,245	62,654	65,161	67,767	
New Growth Related Debt (Interest)	-	-	52,827	50,767	48,625	46,397	44,080	41,670	39,164	36,557	
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-	
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-	
<i>Transfers</i>											
Transfer to Reserve - Waterworks Drayton (35250)	-	-	-	-	-	-	-	-	-	-	
Transfer to Lifecycle Reserve - Mains & Facilities (35440 & 35445)	189,759	190,392	199,479	208,558	217,734	227,112	236,499	245,899	255,419	264,865	
<i>Sub Total Capital Related</i>	189,759	190,392	303,803	312,882	322,058	331,437	340,823	350,224	359,743	369,189	
Total Expenditures	350,183	364,592	481,803	494,882	508,158	521,637	535,323	549,224	563,343	577,689	
Revenues											
<i>Operating Revenue</i>											
Other Revenue	-	-	-	-	-	-	-	-	-	-	
Penalties and Interest - Utilities	840	900	900	900	900	900	900	900	900	900	
Ontario Conditional Grants	-	-	-	-	-	-	-	-	-	-	
Water/Sewer Certificate Fees	340	300	300	300	300	300	300	300	300	300	
Water Hookup	1,380	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	
Transfer from Development Charges Reserve Fund	-	-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324	
Transfer from Reserves / Reserve Funds	-	-	-	-	-	-	-	-	-	-	
<i>Sub Total Operating Revenue</i>	2,560	2,600	106,924	106,924	106,924	106,924	106,924	106,924	106,924	106,924	
<i>Billing Revenue</i>											
Flat Rate	172,977	-	-	-	-	-	-	-	-	-	
Base Charge	59,225	124,305	130,345	136,577	143,007	149,639	156,479	163,533	170,807	178,306	
Consumptive Charge	115,421	237,688	244,534	251,381	258,227	265,073	271,920	278,766	285,612	292,459	
<i>Sub Total Billing Revenue</i>	347,623	361,992	374,879	387,958	401,234	414,712	428,399	442,299	456,419	470,765	
Total Revenue	350,183	364,592	481,803	494,882	508,158	521,637	535,323	549,224	563,343	577,689	

Note: Conversion to metered based billing assumed for July 1, 2015

Table 6
Township of Mapleton
Drayton Water Services
Water Rate Forecast
Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Total Water Billing Recovery	115,421	237,688	244,534	251,381	258,227	265,073	271,920	278,766	285,612	292,459
Total Consumption (m ³)	74,949	154,343	158,788	163,234	167,680	172,126	176,571	181,017	185,463	189,908
Constant Rate (m ³)	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54	\$ 1.54
Annual Percentage Change		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Base Charge:										
5/8" or 3/4"	13.00	13.26	13.53	13.80	14.07	14.35	14.64	14.93	15.23	15.54
1"	18.20	18.56	18.94	19.31	19.70	20.09	20.50	20.91	21.32	21.75
1 1/2"	23.40	23.87	24.35	24.83	25.33	25.84	26.35	26.88	27.42	27.97
2"	37.70	38.45	39.22	40.01	40.81	41.62	42.46	43.31	44.17	45.05
3"	143.00	145.86	148.78	151.75	154.79	157.88	161.04	164.26	167.55	170.90
4"	182.00	185.64	189.35	193.14	197.00	200.94	204.96	209.06	213.24	217.51
6"	273.00	278.46	284.03	289.71	295.50	301.41	307.44	313.59	319.86	326.26
8"	377.00	384.54	392.23	400.08	408.08	416.24	424.56	433.05	441.72	450.55
Annual Percentage Change		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%

Table 7
Township of Mapleton
Moorefield Water Service
Capital Budget Forecast
 Inflated \$

Description	Total	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
Capital Expenditures												
Pressure Tank Rehabilitation	50,000	50,000	-	-	-	-	-	-	-	-	-	-
New Chlorine Pumps & Spare Parts	4,000	4,000	-	-	-	-	-	-	-	-	-	-
Parallel Chlorine analyzers	2,000	2,000	-	-	-	-	-	-	-	-	-	-
Low Lift Pump VFD	11,000	11,000	-	-	-	-	-	-	-	-	-	-
High Lift Pump VFDs	12,000	12,000	-	-	-	-	-	-	-	-	-	-
Rate Study and Financial Plan	9,500	4,000	-	-	-	-	5,500	-	-	-	-	-
Provision for Future Capital - Facilities	278,600	-	28,600	29,100	29,700	30,300	30,900	31,500	32,200	32,800	33,500	
Provision for Future Capital - Mains	119,300	-	12,200	12,500	12,700	13,000	13,200	13,500	13,800	14,100	14,300	
Total Capital Expenditures	486,400	83,000	40,800	41,600	42,400	43,300	49,600	45,000	46,000	46,900	47,800	
Capital Financing												
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-	
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	
Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	
Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	
Water Lifecycle Reserve Fund - Mains & Facilities (35475 & 35480)	486,400	83,000	40,800	41,600	42,400	43,300	49,600	45,000	46,000	46,900	47,800	
Total Capital Financing	486,400	83,000	40,800	41,600	42,400	43,300	49,600	45,000	46,000	46,900	47,800	

Table 8
Township of Mapleton
Moorefield Water Service
Schedule of Non-Growth Related Debenture Repayments
 Inflated \$

Debenture Year	Principal (Inflated)	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
2015	-		-	-	-	-	-	-	-	-	-	-
2016	-		-	-	-	-	-	-	-	-	-	-
2017	-		-	-	-	-	-	-	-	-	-	-
2018	-		-	-	-	-	-	-	-	-	-	-
2019	-		-	-	-	-	-	-	-	-	-	-
2020	-		-	-	-	-	-	-	-	-	-	-
2021	-		-	-	-	-	-	-	-	-	-	-
2022	-		-	-	-	-	-	-	-	-	-	-
2023	-		-	-	-	-	-	-	-	-	-	-
2024	-		-	-	-	-	-	-	-	-	-	-
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

Table 9
Township of Mapleton
Moorefield Water Service
Schedule of Growth Related Debenture Repayments
 Inflated \$

Debenture Year	Principal (Inflated)	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
2015	-		-	-	-	-	-	-	-	-	-	-
2016	-		-	-	-	-	-	-	-	-	-	-
2017	-		-	-	-	-	-	-	-	-	-	-
2018	-		-	-	-	-	-	-	-	-	-	-
2019	-		-	-	-	-	-	-	-	-	-	-
2020	-		-	-	-	-	-	-	-	-	-	-
2021	-		-	-	-	-	-	-	-	-	-	-
2022	-		-	-	-	-	-	-	-	-	-	-
2023	-		-	-	-	-	-	-	-	-	-	-
2024	-		-	-	-	-	-	-	-	-	-	-
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

Table 10
Township of Mapleton
Moorefield Water Service
Water Reserves/ Reserve Funds Continuity
 Inflated \$

Water Reserve & Lifecycle Reserve Fund - Moorefield Mains and Facilities (35475 & 35480)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	60,434	(22,659)	(48,796)	(68,401)	(75,532)	(65,944)	(43,888)	1,105	64,291	147,590
Transfer from Operating	167	15,223	22,780	36,137	53,645	72,160	89,980	108,448	128,504	149,289
Transfer to Capital	83,000	40,800	41,600	42,400	43,300	49,600	45,000	46,000	46,900	47,800
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	(22,399)	(48,235)	(67,616)	(74,664)	(65,186)	(43,383)	1,092	63,553	145,895	249,080
Interest	(260)	(561)	(786)	(868)	(758)	(504)	13	739	1,695	2,894

Table 11
Township of Mapleton
Moorefield Water Services
Operating Budget Forecast
 Inflated \$

Description	Budget	Forecast								
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
EXPENDITURES										
Operating Costs										
<u>Wages and Benefits</u>										
Wages/Salary	10,010	10,200	10,400	10,600	10,800	11,000	11,200	11,400	11,600	11,800
Canada Pension	320	300	300	300	300	300	300	300	300	300
Employment Insurance	150	200	200	200	200	200	200	200	200	200
Workplace Safety and Insurance	200	200	200	200	200	200	200	200	200	200
RSP/OMERS	240	200	200	200	200	200	200	200	200	200
Employee Health Tax	190	200	200	200	200	200	200	200	200	200
Benefits	370	400	400	400	400	400	400	400	400	400
<u>Materials, Supplies, Services, Rents</u>										
Education/Seminars/Convention	480	500	500	500	500	500	500	500	500	500
Membership Fees	160	200	200	200	200	200	200	200	200	200
Insurance	2,150	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,200
Utilities	12,220	12,800	13,400	14,100	14,800	15,500	16,300	17,100	18,000	18,900
Telephone/Communications	2,870	2,900	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700
Postage/Courier Service	390	400	400	400	400	400	400	400	400	400
Advertising	170	200	200	200	200	200	200	200	200	200
Materials and Supplies	240	200	200	200	200	200	200	200	200	200
Repairs and Maintenance	1,190	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Computer - Maintenance	280	300	300	300	300	300	300	300	300	300
Metering Software	510	500	500	500	500	500	500	500	500	500
Equipment - Maintenance	1,420	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
Equipment - Parts/Tools	140	100	100	100	100	100	100	100	100	100
Miscellaneous	580	600	600	600	600	600	600	600	600	600
<u>Operations, Testing, Maintenance</u>										
Contracts	57,640	66,300	67,600	69,000	70,400	71,800	73,200	74,700	76,200	77,700
Additional Services - Operator	9,360	9,500	9,700	9,900	10,100	10,300	10,500	10,700	10,900	11,100
Engineering Expense	3,120	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000
Studies/Reports	1,030	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Line Maintenance	130	100	100	100	100	100	100	100	100	100
Meter Reading	204	200	200	200	200	200	200	200	200	200
		-	-	-	-	-	-	-	-	-
<i>Sub Total Operating</i>	<i>105,764</i>	<i>115,700</i>	<i>118,300</i>	<i>121,100</i>	<i>123,900</i>	<i>126,700</i>	<i>129,600</i>	<i>132,600</i>	<i>135,700</i>	<i>138,900</i>

Capital-Related										
<u>Debentures</u>										
Existing Debt (Principal) - Servicing	96,000	-	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Servicing	4,272	-	-	-	-	-	-	-	-	-
New Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-
New Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-
<u>Transfers</u>										
Transfer to Taxation (Loan Repayment)	-	-	-	-	-	-	-	-	-	-
Transfer to Lifecycle Reserve - Mains & Facilities (35475 & 35480)	167	15,223	22,780	36,137	53,645	72,160	89,980	108,448	128,504	149,289
<i>Sub Total Capital Related</i>	<i>100,439</i>	<i>15,223</i>	<i>22,780</i>	<i>36,137</i>	<i>53,645</i>	<i>72,160</i>	<i>89,980</i>	<i>108,448</i>	<i>128,504</i>	<i>149,289</i>
Total Expenditures	206,203	130,923	141,080	157,237	177,545	198,860	219,580	241,048	264,204	288,189
Revenues										
<u>Operating Revenue</u>										
Other Revenue	20	-	-	-	-	-	-	-	-	-
Penalties and Interest - Utilities	420	430	440	450	460	470	480	490	500	510
Ontario Conditional Grants	-	-	-	-	-	-	-	-	-	-
Long Term Debt Recovery (Collected from Taxation)	96,000	-	-	-	-	-	-	-	-	-
Water/Sewer Certificate Fees	40	40	40	40	40	40	40	40	40	40
Water Hookup	80	80	80	80	80	80	80	80	80	80
Transfer from Taxation (Loan)	-	-	-	-	-	-	-	-	-	-
Transfer from Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-
Transfer from Reserves / Reserve Funds	-	-	-	-	-	-	-	-	-	-
<i>Sub Total Operating Revenue</i>	<i>96,560</i>	<i>550</i>	<i>560</i>	<i>570</i>	<i>580</i>	<i>590</i>	<i>600</i>	<i>610</i>	<i>620</i>	<i>630</i>
<u>Billing Revenue</u>										
Flate Rate	48,956	-	-	-	-	-	-	-	-	-
Base Charge	15,246	32,020	33,971	37,516	41,968	46,583	51,367	56,322	61,667	67,202
Consumptive Charge	45,441	98,354	106,549	119,151	134,997	151,687	167,613	184,116	201,917	220,357
<i>Sub Total Billing Revenue</i>	<i>109,643</i>	<i>130,373</i>	<i>140,520</i>	<i>156,667</i>	<i>176,965</i>	<i>198,270</i>	<i>218,980</i>	<i>240,438</i>	<i>263,584</i>	<i>287,559</i>
Total Revenue	206,203	130,923	141,080	157,237	177,545	198,860	219,580	241,048	264,204	288,189

Note: Conversion to metered based billing assumed for July 1, 2015

Table 12
Township of Mapleton
Moorefield Water Services
Water Rate Forecast
 Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Total Water Billing Recovery	45,441	98,354	106,549	119,151	134,997	151,687	167,613	184,116	201,917	220,357
Total Consumption (m ³)	18,177	37,468	39,029	42,374	46,611	50,848	55,085	59,322	63,782	68,242
Constant Rate (m ³)	\$ 2.50	\$ 2.63	\$ 2.73	\$ 2.81	\$ 2.90	\$ 2.98	\$ 3.04	\$ 3.10	\$ 3.17	\$ 3.23
Annual Percentage Change		5.0%	4.0%	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Base Charge:										
5/8" or 3/4"	15.00	15.30	15.61	15.92	16.24	16.56	16.89	17.23	17.57	17.93
1"	21.00	21.42	21.85	22.29	22.73	23.19	23.65	24.12	24.60	25.10
1 1/2"	27.00	27.54	28.09	28.65	29.23	29.81	30.41	31.01	31.63	32.27
2"	43.50	44.37	45.26	46.16	47.09	48.03	48.99	49.97	50.97	51.99
3"	165.00	168.30	171.67	175.10	178.60	182.17	185.82	189.53	193.32	197.19
4"	210.00	214.20	218.48	222.85	227.31	231.86	236.49	241.22	246.05	250.97
6"	315.00	321.30	327.73	334.28	340.97	347.79	354.74	361.84	369.07	376.45
8"	435.00	443.70	452.57	461.63	470.86	480.28	489.88	499.68	509.67	519.87
Annual Percentage Change		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%

Table 13
Township of Mapleton
Combined Water Service
Capital Budget Forecast
 Inflated \$

Description	Total	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
Capital Expenditures												
Drayton												
Utility Locating Equipment	5,000	5,000	-	-	-	-	-	-	-	-	-	-
Chlorine Pump	1,800	1,800	-	-	-	-	-	-	-	-	-	-
Repair Chlorine Pump (s/b operating - yes)	500	500	-	-	-	-	-	-	-	-	-	-
Distribution Header Maintenance & Flow Meter	15,000	15,000	-	-	-	-	-	-	-	-	-	-
Well Pump VFDs	14,500	14,500	-	-	-	-	-	-	-	-	-	-
High Lift Pump VFDs	18,000	18,000	-	-	-	-	-	-	-	-	-	-
Update Alarm System	5,000	5,000	-	-	-	-	-	-	-	-	-	-
Parallel Chlorine Analyzers	5,000	5,000	-	-	-	-	-	-	-	-	-	-
Install SCADA system	60,000	60,000	-	-	-	-	-	-	-	-	-	-
Hydrant Repairs	50,000	50,000	-	-	-	-	-	-	-	-	-	-
Install Bypass Header	5,000	5,000	-	-	-	-	-	-	-	-	-	-
Rate Study and Financial Plan	9,500	4,000	-	-	-	-	5,500	-	-	-	-	-
Provision for Future Capital - Facilities	625,100	-	-	72,800	74,300	75,800	77,300	78,800	80,400	82,000	83,700	
Provision for Future Capital - Mains	267,900	-	-	31,200	31,800	32,500	33,100	33,800	34,500	35,100	35,900	
Moorefield												
Pressure Tank Rehabilitation	50,000	50,000	-	-	-	-	-	-	-	-	-	-
New Chlorine Pumps & Spare Parts	4,000	4,000	-	-	-	-	-	-	-	-	-	-
Parallel Chlorine analyzers	2,000	2,000	-	-	-	-	-	-	-	-	-	-
Low Lift Pump VFD	11,000	11,000	-	-	-	-	-	-	-	-	-	-
High Lift Pump VFDs	12,000	12,000	-	-	-	-	-	-	-	-	-	-
Rate Study and Financial Plan	9,500	4,000	-	-	-	-	5,500	-	-	-	-	-
Provision for Future Capital - Facilities	278,600	-	28,600	29,100	29,700	30,300	30,900	31,500	32,200	32,800	33,500	
Provision for Future Capital - Mains	119,300	-	12,200	12,500	12,700	13,000	13,200	13,500	13,800	14,100	14,300	
Growth Related												
Water Standpipe/Tower	2,545,000	250,000	2,295,000	-	-	-	-	-	-	-	-	-
Operations/Maintenance Facility (share)	20,625	20,625	-	-	-	-	-	-	-	-	-	-
Main St Bridge, Well, Rd 8 Drayton Looping	204,000	-	204,000	-	-	-	-	-	-	-	-	-
Total Capital Expenditures	4,338,325	537,425	2,539,800	145,600	148,500	151,600	165,500	157,600	160,900	164,000	167,400	
Capital Financing												
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	1,417,800	-	1,417,800	-	-	-	-	-	-	-	-	-
Development Charges Reserve Fund	170,625	170,625	-	-	-	-	-	-	-	-	-	-
Reserve - Drayton Water (35460)	-	-	-	-	-	-	-	-	-	-	-	-
Reserve - Waterworks Drayton (35250)	605,229	172,500	432,729	-	-	-	-	-	-	-	-	-
Reserve - Drayton Serviced Water and Sewer (35420) - Water Only	130,610	100,000	30,610	-	-	-	-	-	-	-	-	-
Water Lifecycle Reserve Fund - Mains & Facilities	2,014,061	94,300	658,661	145,600	148,500	151,600	165,500	157,600	160,900	164,000	167,400	
Total Capital Financing	4,338,325	537,425	2,539,800	145,600	148,500	151,600	165,500	157,600	160,900	164,000	167,400	

Table 14
Township of Mapleton
Combined Water Service
Schedule of Non-Growth Related Debenture Repayments
 Inflated \$

Debenture Year	Principal (Inflated)	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
2015	-		-	-	-	-	-	-	-	-	-	-
2016	-		-	-	-	-	-	-	-	-	-	-
2017	-		-	-	-	-	-	-	-	-	-	-
2018	-		-	-	-	-	-	-	-	-	-	-
2019	-		-	-	-	-	-	-	-	-	-	-
2020	-		-	-	-	-	-	-	-	-	-	-
2021	-		-	-	-	-	-	-	-	-	-	-
2022	-		-	-	-	-	-	-	-	-	-	-
2023	-		-	-	-	-	-	-	-	-	-	-
2024	-		-	-	-	-	-	-	-	-	-	-
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

Table 15
Township of Mapleton
Combined Water Service
Schedule of Growth Related Debenture Repayments
 Inflated \$

Debenture Year	Principal (Inflated)	Budget 2015	Forecast									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	
2015	-		-	-	-	-	-	-	-	-	-	-
2016	1,417,800		-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324
2017	-		-	-	-	-	-	-	-	-	-	-
2018	-		-	-	-	-	-	-	-	-	-	-
2019	-		-	-	-	-	-	-	-	-	-	-
2020	-		-	-	-	-	-	-	-	-	-	-
2021	-		-	-	-	-	-	-	-	-	-	-
2022	-		-	-	-	-	-	-	-	-	-	-
2023	-		-	-	-	-	-	-	-	-	-	-
2024	-		-	-	-	-	-	-	-	-	-	-
Total Annual Debt Charges	1,417,800	-	-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324

Table 16
Township of Mapleton
Combined Water Service
Water Reserves/ Reserve Funds Continuity
 Inflated \$

Development Charges Reserve Fund	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	195,432	95,521	168,469	138,150	108,945	80,907	54,061	28,462	4,170	(18,790)
Development Charge Proceeds	69,617	71,013	72,418	73,868	75,356	76,858	78,398	79,984	81,580	83,214
Transfer to Capital	170,625	-	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324
Closing Balance	94,424	166,534	136,563	107,694	79,977	53,440	28,135	4,122	(18,574)	(39,901)
Interest	1,097	1,935	1,587	1,251	929	621	327	48	(216)	(464)
Required from Development Charges	170,625	1,417,800	-	-	-	-	-	-	-	-

Reserve Fund - Drayton Serviced Water and Sewer (35420) - Water Only	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	130,258	30,610	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	100,000	30,610	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	30,258	-	-	-	-	-	-	-	-	-
Interest	352	-	-	-	-	-	-	-	-	-

Reserve - Waterworks Drayton (35250)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	461,481	288,981	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-
Transfer from Reserve 35460	-	143,748	-	-	-	-	-	-	-	-
Transfer to Capital	172,500	432,729	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	288,981	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-

Reserve Fund - Drayton Water (35460)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	143,748	143,748	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-
Transfer to Reserve 35250	-	143,748	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	143,748	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-

Water Lifecycle Reserve Fund - Mains/Facilities (35440, 35475, 35445, 35480)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Opening Balance	552,745	653,947	202,285	279,919	376,113	493,635	622,428	785,113	971,305	1,182,786
Transfer from Operating	190,171	204,675	220,019	240,373	263,451	287,144	311,266	335,935	361,894	388,448
Transfer to Capital	94,300	658,661	145,600	148,500	151,600	165,500	157,600	160,900	164,000	167,400
Transfer to Operating	-	-	-	-	-	-	-	-	-	-
Closing Balance	648,616	199,961	276,704	371,793	487,964	615,278	776,094	960,148	1,169,199	1,403,834
Interest	5,331	2,324	3,215	4,320	5,670	7,150	9,019	11,157	13,587	16,313

Table 17
Township of Mapleton
Combined Water Service
Operating Budget Forecast
 Inflated \$

Description	Budget 2015	Forecast								
		2016	2017	2018	2019	2020	2021	2022	2023	2024
EXPENDITURES										
Operating Costs										
Wages and Benefits										
Wages/Salary	29,550	30,100	30,700	31,300	31,900	32,500	33,200	33,900	34,600	35,300
Canada Pension	900	900	900	900	900	900	900	900	900	900
Employment Insurance	450	500	500	500	500	500	500	500	500	500
Workplace Safety and Insurance	590	600	600	600	600	600	600	600	600	600
RSP/OMERS	670	700	700	700	700	700	700	700	700	700
Employee Health Tax	570	600	600	600	600	600	600	600	600	600
Benefits	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Materials, Supplies, Services, Rents										
Mileage/Travel/Meal Expenses	50	100	100	100	100	100	100	100	100	100
Education/Seminars/Convention	1,430	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Membership Fees	580	600	600	600	600	600	600	600	600	600
Insurance	4,460	4,700	4,900	5,100	5,400	5,700	6,000	6,300	6,600	6,900
Utilities	35,530	37,300	39,200	41,200	43,300	45,500	47,800	50,200	52,700	55,300
Telephone/Communications	4,720	4,800	4,900	5,000	5,100	5,200	5,300	5,400	5,500	5,600
Postage/Courier Service	2,150	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
Advertising	740	800	800	800	800	800	800	800	800	800
Materials and Supplies	1,410	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
Repairs and Maintenance	8,020	8,200	8,400	8,600	8,800	9,000	9,200	9,400	9,600	9,800
Computer - Maintenance	620	600	600	600	600	600	600	600	600	600
Metering Software	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Equipment - Maintenance	4,910	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800
Equipment - Parts/Tools	430	400	400	400	400	400	400	400	400	400
Building Maintenance	160	200	200	200	200	200	200	200	200	200
Building and Property Taxes	2,360	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Dept. Clothing and Apparel	240	200	200	200	200	200	200	200	200	200
Miscellaneous	1,620	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
Operations, Testing, Maintenance										
Contracts	132,490	152,400	155,400	158,500	161,700	164,900	168,200	171,600	175,000	178,500
Additional Services - Operator	17,680	18,000	18,400	18,800	19,200	19,600	20,000	20,400	20,800	21,200
Engineer Expense	5,370	5,500	5,600	5,700	5,800	5,900	6,000	6,100	6,200	6,300
Sample Testing	2,080	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
Studies/Reports	1,930	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Line Maintenance	2,040	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
Metering Reading	408	400	400	400	400	400	400	400	400	400
Sub Total Operating	266,188	290,000	296,600	303,400	310,500	317,700	325,200	332,900	340,700	348,700

Capital-Related											
Debtentures											
Existing Debt (Principal) - Servicing	96,000	-	-	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Servicing	4,272	-	-	-	-	-	-	-	-	-	-
New Growth Related Debt (Principal)	-	-	51,497	53,557	55,700	57,928	60,245	62,654	65,161	67,767	
New Growth Related Debt (Interest)	-	-	52,827	50,767	48,625	46,397	44,080	41,670	39,164	36,557	
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-	-	-	-	-
Transfers											
Transfer to Reserve - Waterworks Drayton (35250)	-	-	-	-	-	-	-	-	-	-	-
Transfer to Lifecycle Reserve - Mains & Facilities	190,171	204,675	220,019	240,373	263,451	287,144	311,266	335,935	361,894	388,448	#
Sub Total Capital Related	290,443	204,675	324,343	344,698	367,775	391,468	415,590	440,259	466,218	492,772	
Total Expenditures	556,631	494,675	620,943	648,098	678,275	709,168	740,790	773,159	806,918	841,472	
Revenues											
Operating Revenue											
Other Revenue	20	-	-	-	-	-	-	-	-	-	-
Penalties and Interest - Utilities	1,260	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
Ontario Conditional Grants	-	-	-	-	-	-	-	-	-	-	-
Long Term Debt Recovery (Collected from Taxation)	96,000	-	-	-	-	-	-	-	-	-	-
Water/Sewer Certificate Fees	380	400	400	400	400	400	400	400	400	400	400
Water Hookup	1,460	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Transfer from Development Charges Reserve Fund	-	-	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324	104,324
Transfer from Reserves / Reserve Funds	-	-	-	-	-	-	-	-	-	-	-
Sub Total Operating Revenue	99,120	3,200	107,524	107,524	107,524	107,524	107,524	107,524	107,524	107,524	107,524
Billing Revenue											
Flat Rate	221,933	-	-	-	-	-	-	-	-	-	-
Base Charge	74,471	156,324	164,316	174,093	184,975	196,223	207,846	219,856	232,474	245,508	
Consumptive Charge	161,106	335,151	349,103	366,480	385,776	405,421	425,420	445,779	466,920	488,440	
Sub Total Billing Revenue	457,511	491,475	513,419	540,573	570,751	601,644	633,266	665,635	699,394	733,948	
Total Revenue	556,631	494,675	620,943	648,098	678,275	709,168	740,790	773,159	806,918	841,472	

Note: Conversion to metered based billing assumed for July 1, 2015

Table 18
Township of Mapleton
Combined Water Service
Water Rate Forecast
 Inflated \$

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Total Water Billing Recovery	161,106	335,151	349,103	366,480	385,776	405,421	425,420	445,779	466,920	488,440
Total Consumption (m ³)	93,125	191,811	197,817	205,608	214,291	222,974	231,656	240,339	249,245	258,150
Constant Rate (m ³)	\$ 1.73	\$ 1.75	\$ 1.76	\$ 1.78	\$ 1.80	\$ 1.82	\$ 1.84	\$ 1.85	\$ 1.87	\$ 1.89
Annual Percentage Change		1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

Drayton Base Charge

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Base Charge:										
5/8" or 3/4"	13.00	13.26	13.53	13.80	14.07	14.35	14.64	14.93	15.23	15.54
1"	18.20	18.56	18.94	19.31	19.70	20.09	20.50	20.91	21.32	21.75
1 1/2"	23.40	23.87	24.35	24.83	25.33	25.84	26.35	26.88	27.42	27.97
2"	37.70	38.45	39.22	40.01	40.81	41.62	42.46	43.31	44.17	45.05
3"	143.00	145.86	148.78	151.75	154.79	157.88	161.04	164.26	167.55	170.90
4"	182.00	185.64	189.35	193.14	197.00	200.94	204.96	209.06	213.24	217.51
6"	273.00	278.46	284.03	289.71	295.50	301.41	307.44	313.59	319.86	326.26
8"	377.00	384.54	392.23	400.08	408.08	416.24	424.56	433.05	441.72	450.55
Annual Percentage Change		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%

Moorefield Base Charge

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Base Charge:										
5/8" or 3/4"	15.00	15.30	15.61	15.92	16.24	16.56	16.89	17.23	17.57	17.93
1"	21.00	21.42	21.85	22.29	22.73	23.19	23.65	24.12	24.60	25.10
1 1/2"	27.00	27.54	28.09	28.65	29.23	29.81	30.41	31.01	31.63	32.27
2"	43.50	44.37	45.26	46.16	47.09	48.03	48.99	49.97	50.97	51.99
3"	165.00	168.30	171.67	175.10	178.60	182.17	185.82	189.53	193.32	197.19
4"	210.00	214.20	218.48	222.85	227.31	231.86	236.49	241.22	246.05	250.97
6"	315.00	321.30	327.73	334.28	340.97	347.79	354.74	361.84	369.07	376.45
8"	435.00	443.70	452.57	461.63	470.86	480.28	489.88	499.68	509.67	519.87
Annual Percentage Change		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%