
APPENDIX A

**NIAGARA-ON-THE LAKE
BY-LAW 4381-10**

**CORPORATION OF THE
TOWN OF NIAGARA-ON-THE-LAKE**

BY-LAW NO. 4381-10

**A BY-LAW TO AMEND BY-LAW 814-77 BEING A BY-LAW
TO ESTABLISH AND REGULATE SEWER AND WATER
RATES AND CHARGES WITHIN THE TOWN OF
NIAGARA-ON-THE-LAKE AND TO REPEAL BY-LAW
4302-09**

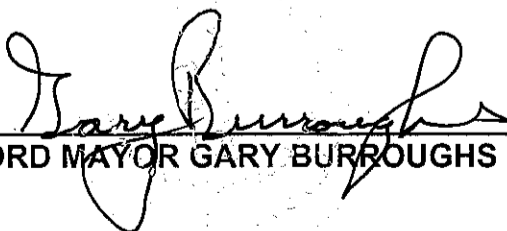
WHEREAS By-law No. 814-77 establishes and regulates the Town of Niagara-on-the-Lake water system and sets out water and sewage rates in Schedule "A" attached thereto;

AND WHEREAS it is necessary to increase the service charges for the Niagara-on-the-Lake water and sewer systems as approved in Corporate Services Report CS-10-008.

NOW THEREFORE BE IT ENACTED AS A BY-LAW OF THE CORPORATION OF THE TOWN OF NIAGARA-ON-THE-LAKE as follows:

1. That Schedule "A" attached hereto and forming part of this by-law is hereby adopted and replaces Schedule "A" to By-law 814-77.
2. That any by-law which conflicts in part or in whole with any part of Schedule "A" is hereby amended to conform with Schedule "A" attached hereto.
3. That By-law 4302-09 is hereby repealed.
4. That this by-law takes effect May 1, 2010.

**READ A FIRST, SECOND, AND THIRD TIME AND PASSED THIS 26th DAY
OF APRIL 2010.**



LORD MAYOR GARY BURROUGHS



TOWN CLERK HOLLY DOWD

Schedule A to By-law 4381-10

1. a) WATER RATES (REGULAR CUSTOMERS)

The monthly billing amount shall be calculated based on:

Fixed Charge \$18.55/month

Plus:

Uniform Rate \$1.129/cubic meter multiplied by the water consumption, in cubic meters, from water meter readings.

A late payment charge shall apply to all unpaid balances owing past the payment due date at the interest rate of 1½% per month.

b) MULTIPLE OCCUPANCY CUSTOMERS

Where more than one self contained dwelling unit or commercial or industrial unit are supplied through a common water meter, the monthly billing amount shall be the combination of the Fixed Charge multiplied by the number of units, plus the Uniform Rate multiplied by the water consumption, in cubic meters, from the water meter readings in accordance with 1.a) above.

c) OTHER WATER RATES

Bulk Water Stations

The monthly billing amount shall be calculated as for Regular Customers in accordance with 1.a) above.

Irrigation Rates

The monthly billing amount shall be calculated as for Regular Customers in accordance with 1.a) above.

2. a) WASTEWATER RATES (REGULAR CUSTOMERS)

The monthly billing amount shall be calculated based on:

Fixed Charge \$21.39/month

Plus:

Uniform Rate \$0.814/cubic meter multiplied by the water consumption, in cubic meters, from water meter readings.

A late payment charge shall apply to all unpaid balances owing past the payment due date at the interest rate of 1½% per month.

b) MULTIPLE OCCUPANCY CUSTOMERS

Where more than one self contained dwelling unit or commercial or industrial unit are supplied through a common water meter, the monthly billing amount shall be the combination of the Fixed Charge multiplied by the number of units, plus the Uniform Rate multiplied by the water consumption, in cubic meters, from the water meter readings in accordance with 2.a) above.

c) FLAT RATE CHARGE

The monthly billing amount for properties connected to sanitary sewers but not connected to the water system shall be calculated as for Regular Customers based on an average monthly flow of 26 cubic meters in accordance with 2.a) above.

APPENDIX B

NIAGARA-ON-THE LAKE HISTORICAL WATER CONSUMPTION AND POPULATION GROWTH (UNITS OR NUMBER OF ACCOUNTS) – HISTORICAL AND PROJECTED

Table B1 - Water Consumption Information (2009) - (1,000's m³)

Year	Month	Volume of Water Purchased from Region in 2009	Volume of Water Billed to Customers by Hydro in 2009	Volume of Water Consumed by Town through Bulk Station & Hydrants in 2009	Total Volume of Water Billed to Customers & Consumed by Town in 2009	% of Water Loss in 2009 (Difference Between Volume Purchased & Volume Billed to Customers & Consumed by Town)
2009	January	172.103	159.021	40.000	2321.4	-16.84%
2009	February	165.766	137.882			
2009	March	210.815	149.248			
2009	April	233.677	149.037			
2009	May	273.621	150.280			
2009	June	270.505	184.465			
2009	July	272.792	217.524			
2009	August	285.752	244.060			
2009	September	286.636	250.310			
2009	October	236.501	274.781			
2009	November	177.926	202.697			
2009	December	205.364	162.089			
	Total	2,791.458	2,281.394			

Historical Water Volumes Purchased from the Region - m³							
Year	2004	2005	2006	2007	2008	2009	2010
TOTAL	2,924,880	3,109,223	2,990,209	3,302,391	2,761,277	2,781,458	

Town Water Rates (2005 - 2010)					
Year	Date	Water		Wastewater	
		Effective	Fixed	Uniform	Fixed
2005	01-Apr	\$ 8.22	\$ 0.8656	\$ 13.83	\$ 0.7444
2006	01-Mar	\$ 8.38	\$ 0.9188	\$ 20.56	\$ 0.7593
2007	01-Apr	\$ 8.98	\$ 0.9696	\$ 20.97	\$ 0.7593
2008	01-Sep	\$ 9.25	\$ 1.0528	\$ 21.39	\$ 0.7745
2009	01-Jun	\$ 17.72	\$ 1.0350	\$ 21.39	\$ 0.7745
2010	01-May	\$ 18.55	\$ 1.1290	\$ 21.39	\$ 0.8140

TOWN WATER VOLUMES PURCHASED FROM REGION - (1,000's m³)

YEAR	2010		2009		2008		2007		2006		2005		2004	
MONTH	Cubic Metres	Amount (\$)	Cubic Metres	Amount (\$)	Cubic Metres	Amount (\$)	Cubic Metres	Amount (\$)	Cubic Metres	Amount (\$)	Cubic Metres	Amount (\$)	Cubic Metres	Amount (\$)
January	126,643	\$ 59,775.59	172,103	\$ 95,344.78	216,410	\$ 110,801.77	198,397	\$ 97,412.93	165,197	\$ 73,677.86	188,056	\$ 75,222.40	165,154	\$ 66,061.60
February	159,441	\$ 75,256.01	165,766	\$ 91,834.53	184,293	\$ 94,358.12	172,517	\$ 84,705.85	147,611	\$ 65,834.51	172,326	\$ 68,930.40	181,114	\$ 72,445.60
March	215,554	\$ 115,321.38	210,815	\$ 99,504.68	204,635	\$ 113,367.68	193,921	\$ 99,287.55	194,602	\$ 95,549.58	223,433	\$ 99,651.12	191,086	\$ 76,434.40
April	223,927	\$ 119,800.69	223,677	\$ 105,575.55	236,263	\$ 130,889.54	213,728	\$ 109,428.74	162,151	\$ 79,616.14	203,059	\$ 90,564.31	202,134	\$ 80,853.60
May	286,926	\$ 153,505.41	273,621	\$ 129,149.25	220,973	\$ 122,418.93	254,155	\$ 130,127.36	356,603	\$ 175,092.07	269,938	\$ 120,392.35	215,500	\$ 86,200.00
June	282,374	\$ 151,070.25	270,505	\$ 127,678.36	255,010	\$ 141,275.54	361,609	\$ 185,143.81	309,123	\$ 151,779.39	332,865	\$ 148,457.79	274,158	\$ 109,663.20
July	360,175	\$ 192,693.63	272,792	\$ 128,757.68	300,036	\$ 166,219.80	394,475	\$ 201,971.20	308,593	\$ 151,519.16	433,750	\$ 193,452.50	334,887	\$ 133,954.80
August			285,752	\$ 134,874.94	262,686	\$ 145,527.76	478,360	\$ 244,920.32	387,336	\$ 190,181.98	393,417	\$ 175,463.98	365,595	\$ 146,238.00
September			286,636	\$ 135,292.28	285,823	\$ 158,346.05	417,020	\$ 213,514.24	309,377	\$ 151,904.11	318,919	\$ 142,237.87	350,380	\$ 140,152.00
October			236,501	\$ 111,628.38	222,999	\$ 123,541.17	236,202	\$ 120,935.42	240,752	\$ 118,209.23	246,834	\$ 110,087.96	250,790	\$ 100,316.00
November			177,926	\$ 83,980.83	179,852	\$ 99,638.17	197,384	\$ 101,060.61	214,279	\$ 105,210.99	171,749	\$ 76,600.05	221,292	\$ 88,516.80
December			205,364	\$ 96,931.95	192,297	\$ 106,532.65	184,623	\$ 94,526.98	194,585	\$ 95,541.24	154,877	\$ 69,075.14	172,790	\$ 69,116.00
TOTAL			2781,458	\$ 1,340,553.21	2761,277	\$1,512,917.18	3302,391	\$ 1,683,035.01	2990,209	\$ 1,454,116.26	3109,223	\$ 1,370,135.87	2924,880	\$ 1,169,952.00

Volume (1,000's m³) of Water Purchased from the Region (April 2004-March 2010)						
	April 2009 to March 2010	April 2008 to March 2009	April 2007 to March 2008	April 2006 to March 2007	April 2005 to March 2006	April 2004 to March 2005
Actual Volume Purchased from the Region, April to March	2734.412	2704.623	3342.894	3047.634	3032.818	2971.341
Two Years' Average Purchased from the Region	2719.518					
Two Years' Average Purchased from the Region, Oct to Sep	2770.577					

Three & Six Year Averages of Water Purchased from the Region			
	Vol (1,000's m³)	Cost	
2007 to 2009 - 3 y	2948.375	\$ 1,512,168.47	
2004 to 2009 - 6 y	2978.24	\$ 1,421,784.92	

Requisition Calculation				
Municipality	3 Year Rolling Average	Allocation %	\$	
Niagara Falls	15,667,936	24.9%	\$ 2,615,478	
Port Colborne	3,209,354	5.1%	\$ 535,743	
St. Catharines	18,551,865	29.5%	\$ 3,096,898	
Thorold	2,603,216	4.1%	\$ 434,560	
Welland	7,606,193	12.1%	\$ 1,269,716	
Fort Erie	4,803,110	7.6%	\$ 801,792	
Grimsby	2,760,353	4.4%	\$ 460,791	
Lincoln	2,450,266	3.9%	\$ 409,027	
NOTL	2,958,317	4.7%	\$ 493,837	
Pelham	1,577,030	2.5%	\$ 263,257	
West Lincoln	739,656	1.2%	\$ 123,472	
Total	62,927,295	100%	\$ 10,504,571	

2010 WATER PURCHASES FROM REGION (VOLUMES ARE IN 1,000'S M³)			
Year:	2010	2010	Uniform Rate
Month	Volume (m³)	Amount (\$)	
January	126,643	\$59,775.59	\$0.4720
February	159,441	\$75,256.01	\$0.4720
March	215,554	\$115,321.38	\$0.5350
April	223,927	\$119,800.69	\$0.5350
May	286,926	\$153,505.41	\$0.5350
June	251,155	\$134,367.96	\$0.5350
July	251,155	\$134,367.96	\$0.5350
August	251,155	\$134,367.96	\$0.5350
September	251,155	\$134,367.96	\$0.5350
October	251,155	\$134,367.96	\$0.5350
November	251,155	\$134,367.96	\$0.5350
December	251,155	\$134,367.96	\$0.5350
TOTAL	2770,577	\$1,464,234.82	

NOTES:
 1. The consumption between January to May represents actual volume
 2. The consumption between June to December represents the projection for this period

Projected Water Accounts - 2010 to 2034

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Annual Percent Increase			2.38%	2.38%	2.38%	2.38%	2.38%	2.05%	2.05%	2.05%	2.05%	2.05%	1.77%	1.77%	1.77%	1.77%	1.77%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%
No. New Accounts Annually		60	146	146	146	146	146	140	140	140	140	140	134	134	134	134	134	124	124	124	124	124	124	124	124
Total Number of Accounts	6,085	6,120	6,266	6,412	6,558	6,704	6,850	6,990	7,130	7,270	7,410	7,550	7,684	7,818	7,952	8,086	8,220	8,344	8,468	8,592	8,716	8,840	8,964	9,088	9,212

APPENDIX C

YEARS AND LENGTH OF WATERMAIN INSTALLED (IN 5 YEAR INTERVALS)

Table C1 - Length (Metres) & Type of Pipe Installed Between 1885 & 2010

Pipe Material	Life Expectancy (Yr)	Installation Year Range by Five Year Intervals & Length in metres																							Total by Material	Total by Material		
		1885 - 1889	1890 - 1894	1895 - 1899	1900 - 1904	1905 - 1909	1910 - 1914	1915 - 1919	1920 - 1924	1925 - 1929	1930 - 1934	1935 - 1939	1940 - 1944	1945 - 1949	1950 - 1954	1955 - 1959	1960 - 1964	1965 - 1969	1970 - 1974	1975 - 1979	1980 - 1984	1985 - 1989	1990 - 1994	1995 - 1999			2000 - 2004	2005 - 2010
PVC	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	212.17	199.53	0.00	5,541.32	7,073.03	12,097.11	21,470.85	21,067.15	36,506.71	16,925.02	121,092.90	0.00	
CI	60	0.00	4,416.86	2,031.21	0.00	0.00	0.00	0.00	0.00	255.88	0.00	351.30	0.00	258.25	3,591.66	626.21	138.31	0.00	252.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11,922.62	11,922.62
AC	60	0.00	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	435.22	1,165.74	16,003.62	9,610.35	7,583.20	11,853.50	3,097.41	1,744.86	0.00	0.00	0.00	0.00	51,497.17	34,801.41	
PE	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.59	2,322.36	2,346.54	4,779.30	0.00	0.00	
COPP	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	157.66	242.64	400.29	0.00	0.00
Unknown																										0.00	0.00	
TOTAL		0	4,420	2,031	0	0	0	0	0	256	0	351	0	693	4,757	16,842	9,948	7,583	17,648	10,170	13,842	21,471	21,178	38,987	19,514	189,692.28	46,724.03	

Notes:
 1. Age of the watermain is displayed in five (5) year intervals with the installed length for each interval
 2. Approximately 4% of the watermain is older than 60 yrs
 3. As of 2010 approximately 25% of the watermain network requires replacement

APPENDIX D

**TOWN OF NIAGARA-ON-THE-LAKE
APPROVED 2010 BUDGET FOR
WATER SYSTEMS**

Appendix D: Town of Niagara-on-the-Lake Approved 2010 Budget for Water Systems

2009 BUDGET	2009 ACTUAL	Variance Fav/(Unfav)	ACCOUNT # and DESCRIPTION	2010 BASE BUDGET	2010 Budget Change (\$)	% Chg	PROPOSED PROGRAM CHANGES	TOTAL 2010 PROPOSED OPERATING	2010 Budget Change (\$)	% Chg
411--WATER DISTRIBUTION										
(\$11,000)	(\$10,780)	(\$220)	G-411-0121-0122 LOCAL IMPROVEMENTS	(\$11,000)	\$0	0.0%	\$0	(\$11,000)	\$0	0.0%
(\$55,000)	(\$43,452)	(\$11,548)	G-411-0121-0161 SALE OF WATER	(\$55,000)	\$0	0.0%	\$0	(\$55,000)	\$0	0.0%
(\$1,076,250)	(\$1,073,486)	(\$2,764)	G-411-0121-0163 HYDRO SALE OF WTR-FIXED	(\$1,329,275)	(\$253,025)	23.5%	\$0	(\$1,329,275)	(\$253,025)	23.5%
(\$2,837,500)	(\$2,123,462)	(\$714,038)	G-411-0121-0164 HYDRO SALE OF WTR-CONSUM	(\$2,661,998)	\$175,502	-6.2%	\$0	(\$2,661,998)	\$175,502	-6.2%
\$0	(\$44)	\$44	G-411-0121-0593 SERVICES RENDERED	\$0	\$0		\$0	\$0	\$0	
\$0	(\$1,425)	\$1,425	G-411-0121-0594 SHUT-OFF FEES	\$0	\$0		\$0	\$0	\$0	
\$0	(\$3,045)	\$3,045	G-411-0121-0835 ADMINISTRATION	\$0	\$0		\$0	\$0	\$0	
(\$73,800)	(\$73,800)	\$0	G-411-0121-0971 INTERDEPARTMENTAL TRANSF	(\$73,800)	\$0	0.0%	\$0	(\$73,800)	\$0	0.0%
\$165,000	\$170,649	(\$5,649)	G-411-0121-1110 DISTRIBUTED SALARIES & W	\$165,000	\$0	0.0%	\$0	\$165,000	\$0	0.0%
\$5,000	\$5,934	(\$934)	G-411-0121-1117 IN LIEU OF OVERTIME	\$5,000	\$0	0.0%	\$0	\$5,000	\$0	0.0%
\$5,000	\$5,683	(\$683)	G-411-0121-1130 PART TIME SALARIES & WAG	\$5,000	\$0	0.0%	\$0	\$5,000	\$0	0.0%
\$50,000	\$49,564	\$436	G-411-0121-1160 APPLIED BENEFITS	\$50,000	\$0	0.0%	\$0	\$50,000	\$0	0.0%
\$500	\$566	(\$66)	G-411-0121-2150 CONSTRUCTION MATERIALS O	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$1,500	\$742	\$758	G-411-0121-2510 UNIFORMS, COVERALLS ETC	\$1,500	\$0	0.0%	\$0	\$1,500	\$0	0.0%
\$1,000	\$1,279	(\$279)	G-411-0121-2520 SAFETY FOOTWEAR	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$1,000	\$736	\$264	G-411-0121-2530 PROTECTIVE CLOTHING	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$3,000	\$2,982	\$18	G-411-0121-2540 SMALL TOOLS & EQUIPMENT	\$5,000	\$2,000	66.7%	\$0	\$5,000	\$2,000	66.7%
\$1,000	\$1,885	(\$885)	G-411-0121-2610 OFFICE SUPPLIES	\$1,500	\$500	50.0%	\$0	\$1,500	\$500	50.0%
\$300	\$86	\$214	G-411-0121-2620 CLEANING MATERIALS	\$300	\$0	0.0%	\$0	\$300	\$0	0.0%
\$500	\$572	(\$72)	G-411-0121-2630 GENERAL SUPPLIES	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$463,000	\$389,990	\$73,010	G-411-0121-2841 FIXED WATER REQUIST'N TO REGION	\$490,000	\$27,000	5.8%	\$0	\$490,000	\$27,000	5.8%
\$1,497,540	\$1,340,553	\$156,987	G-411-0121-2842 UNIFORM WATER REQUIST'N TO REG'N	\$1,651,000	\$153,460	10.2%	\$0	\$1,651,000	\$153,460	10.2%
\$0	\$99	(\$99)	G-411-0121-3110 TRAVEL & CONFERENCE EXPE	\$0	\$0		\$0	\$0	\$0	
\$0	\$99	(\$99)	G-411-0121-3115 MILEAGE & EXPENSES	\$0	\$0		\$0	\$0	\$0	
\$300	\$556	(\$256)	G-411-0121-3170 BOOKS & PUBLICATIONS	\$300	\$0	0.0%	\$0	\$300	\$0	0.0%
\$800	\$895	(\$95)	G-411-0121-3180 MEMBERSHIPS	\$800	\$0	0.0%	\$0	\$800	\$0	0.0%
\$100	\$60	\$40	G-411-0121-3210 POSTAGE	\$100	\$0	0.0%	\$0	\$100	\$0	0.0%
\$100,000	\$79,224	\$20,776	G-411-0121-3220 HYDRO BILLING COSTS	\$100,000	\$0	0.0%	\$0	\$100,000	\$0	0.0%
\$40,000	\$30,854	\$9,146	G-411-0121-3221 HYDRO METER READING COST	\$40,000	\$0	0.0%	(\$40,000)	\$0	(\$40,000)	-100.0%
\$4,000	\$1,682	\$2,318	G-411-0121-3260 TELEPHONE & FAX	\$4,000	\$0	0.0%	\$0	\$4,000	\$0	0.0%
\$3,000	\$458	\$2,542	G-411-0121-3280 ADVERTISING	\$3,000	\$0	0.0%	\$0	\$3,000	\$0	0.0%
\$5,000	\$5,000	\$0	G-411-0121-3310 AUDIT	\$5,000	\$0	0.0%	\$0	\$5,000	\$0	0.0%
\$1,500	\$184	\$1,316	G-411-0121-3320 CONTRACTS	\$1,500	\$0	0.0%	\$0	\$1,500	\$0	0.0%
\$1,000	\$731	\$269	G-411-0121-3330 LEGAL	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$12,500	\$650	\$11,850	G-411-0121-3340 CONSULTANTS	\$12,500	\$0	0.0%	\$0	\$12,500	\$0	0.0%
\$500	\$211	\$289	G-411-0121-3410 VEHICLE & EQUIP. MAINTEN	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$1,000	\$1,024	(\$24)	G-411-0121-3420 BUILDING MAINTENANCE SER	\$2,000	\$1,000	100.0%	\$0	\$2,000	\$1,000	100.0%
\$4,000	\$155	\$3,845	G-411-0121-3430 GROUNDS MAINTENANCE SERV	\$1,000	(\$3,000)	-75.0%	\$0	\$1,000	(\$3,000)	-75.0%
\$1,000	\$0	\$1,000	G-411-0121-3450 RADIO SYSTEM MAINTENANCE	\$500	(\$500)	-50.0%	\$0	\$500	(\$500)	-50.0%
\$500	\$53	\$447	G-411-0121-3510 EQUIPMENT RENTALS : OWNE	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$2,000	\$1,028	\$972	G-411-0121-3610 HYDRO	\$2,000	\$0	0.0%	\$0	\$2,000	\$0	0.0%
\$7,000	\$6,723	\$277	G-411-0121-3810 INSURANCE	\$7,000	\$0	0.0%	\$0	\$7,000	\$0	0.0%
\$0	\$0	\$0	G-411-0121-3820 LICENCES	\$3,000	\$3,000		\$0	\$3,000	\$3,000	
\$0	\$15,418	(\$15,418)	G-411-0121-3901 MISCELLANEOUS - GENERAL	\$0	\$0		\$0	\$0	\$0	
\$0	\$389	(\$389)	G-411-0121-3903 COLLECTION COSTS	\$0	\$0		\$0	\$0	\$0	
\$500	\$156	\$344	G-411-0121-4530 WRITE-OFFS & UNCOLLECTIB	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$3,000	\$2,296	\$704	G-411-0121-5112 BUILDINGS & IMPROVEMENTS	\$0	(\$3,000)	-100.0%	\$0	\$0	(\$3,000)	-100.0%

2009 BUDGET	2009 ACTUAL	Variance Fav/(Unfav)	ACCOUNT # and DESCRIPTION		2010 BASE BUDGET	2010 Budget Change (\$)	% Chg	PROPOSED PROGRAM CHANGES	TOTAL 2010 PROPOSED OPERATING	2010 Budget Change (\$)	% Chg
\$0	\$65	(\$65)	G-411-0121-5113	OFFICE EQUIPMENT & FURNI	\$0	\$0		\$0	\$0	\$0	
\$0	\$0	\$0	G-411-0121-5118	COMPUTER HARDWARE	\$2,500	\$2,500		\$0	\$2,500	\$2,500	
\$5,000	\$5,000	\$0	G-411-0121-5605	TSF TO CONT RESV	\$5,000	\$0	0.0%	\$0	\$5,000	\$0	0.0%
\$2,500	\$2,500	\$0	G-411-0121-5626	TSF TO BASE MAPPING RESV	\$2,500	\$0	0.0%	\$0	\$2,500	\$0	0.0%
\$906,480	\$600,531	\$305,949	G-411-0121-5627	TSF TO WATER REPLACEMENT RESV	\$785,993	(\$120,487)	-13.3%	(\$17,000)	\$768,993	(\$137,487)	-15.2%
\$1,050	\$1,050	\$0	G-411-0121-5633	TSF TO MACHINE SHOP RESV	\$1,050	\$0	0.0%	\$0	\$1,050	\$0	0.0%
\$115,000	\$115,000	\$0	G-411-0121-7001	OVERHEAD TRANSFER FROM PW	\$120,000	\$5,000	4.3%	\$0	\$120,000	\$5,000	4.3%
\$45,000	\$45,000	\$0	G-411-0121-7002	INTERDEPARTMENTAL TRANSF	\$50,000	\$5,000	11.1%	\$0	\$50,000	\$5,000	11.1%
\$10,780	\$10,780	\$0	G-411-0121-8001	DEBT CHARGES - WATER	\$10,780	\$0	0.0%	\$0	\$10,780	\$0	0.0%
(\$4,053,550)	(\$3,329,494)	(\$724,056)	** TOTAL REVENUE **		(\$4,131,073)	(\$77,523)	1.9%	\$0	(\$4,131,073)	(\$77,523)	1.9%
\$3,467,850	\$2,899,092	\$568,758	** TOTAL EXPENSE **		\$3,540,323	\$72,473	2.1%	(\$57,000)	\$3,483,323	\$15,473	0.4%
(\$585,700)	(\$430,402)	(\$155,298)	0121 DEPARTMENTAL ADMINISTRATION		(\$590,750)	(\$5,050)	0.9%	(\$57,000)	(\$647,750)	(\$62,050)	10.6%
\$14,000	\$5,229	\$8,771	G-411-0468-1110	DISTRIBUTED SALARIES & W	\$11,000	(\$3,000)	-21.4%	\$0	\$11,000	(\$3,000)	-21.4%
\$1,000	\$1,234	(\$234)	G-411-0468-1130	PART TIME SALARIES & WAG	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$4,000	\$1,518	\$2,482	G-411-0468-1160	APPLIED BENEFITS	\$3,500	(\$500)	-12.5%	\$0	\$3,500	(\$500)	-12.5%
\$2,000	\$1,315	\$685	G-411-0468-3110	TRAVEL & CONFERENCE EXPE	\$1,000	(\$1,000)	-50.0%	\$0	\$1,000	(\$1,000)	-50.0%
\$2,500	\$762	\$1,738	G-411-0468-3115	MILEAGE & EXPENSES	\$1,000	(\$1,500)	-60.0%	\$0	\$1,000	(\$1,500)	-60.0%
\$9,000	\$5,281	\$3,719	G-411-0468-3120	COURSE & SEMINAR FEES	\$8,000	(\$1,000)	-11.1%	\$0	\$8,000	(\$1,000)	-11.1%
\$500	\$347	\$153	G-411-0468-3510	EQUIPMENT RENTALS : OWNE	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$0	\$0	\$0	** TOTAL REVENUE **		\$0	\$0		\$0	\$0	\$0	
\$33,000	\$15,686	\$17,314	** TOTAL EXPENSE **		\$26,000	(\$7,000)	-21.2%	\$0	\$26,000	(\$7,000)	-21.2%
\$33,000	\$15,686	\$17,314	0468 TRAINING		\$26,000	(\$7,000)	-21.2%	\$0	\$26,000	(\$7,000)	-21.2%
\$30,000	\$22,900	\$7,100	G-411-0469-1110	DISTRIBUTED SALARIES & W	\$30,000	\$0	0.0%	\$0	\$30,000	\$0	0.0%
\$0	\$102	(\$102)	G-411-0469-1130	PART TIME SALARIES & WAG	\$0	\$0		\$0	\$0	\$0	
\$10,000	\$6,025	\$3,975	G-411-0469-1160	APPLIED BENEFITS	\$9,000	(\$1,000)	-10.0%	\$0	\$9,000	(\$1,000)	-10.0%
\$1,000	\$210	\$790	G-411-0469-2150	CONSTRUCTION MATERIALS O	\$500	(\$500)	-50.0%	\$0	\$500	(\$500)	-50.0%
\$15,000	\$16,337	(\$1,337)	G-411-0469-3320	CONTRACTS	\$16,000	\$1,000	6.7%	\$0	\$16,000	\$1,000	6.7%
\$7,000	\$6,389	\$611	G-411-0469-3510	EQUIPMENT RENTALS : OWNE	\$7,000	\$0	0.0%	\$0	\$7,000	\$0	0.0%
\$0	\$62	(\$62)	G-411-0469-3901	MISCELLANEOUS - GENERAL	\$0	\$0		\$0	\$0	\$0	
\$0	\$0	\$0	** TOTAL REVENUE **		\$0	\$0		\$0	\$0	\$0	
\$63,000	\$52,025	\$10,975	** TOTAL EXPENSE **		\$62,500	(\$500)	-0.8%	\$0	\$62,500	(\$500)	-0.8%
\$63,000	\$52,025	\$10,975	0469 WATER SAMPLING & TESTING		\$62,500	(\$500)	-0.8%	\$0	\$62,500	(\$500)	-0.8%
\$18,000	\$13,925	\$4,075	G-411-0471-1110	DISTRIBUTED SALARIES & W	\$12,000	(\$6,000)	-33.3%	\$0	\$12,000	(\$6,000)	-33.3%
\$3,000	\$2,027	\$973	G-411-0471-1130	PART TIME SALARIES & WAG	\$2,500	(\$500)	-16.7%	\$0	\$2,500	(\$500)	-16.7%
\$6,000	\$3,826	\$2,174	G-411-0471-1160	APPLIED BENEFITS	\$4,000	(\$2,000)	-33.3%	\$0	\$4,000	(\$2,000)	-33.3%
\$1,000	\$1,729	(\$729)	G-411-0471-2150	CONSTRUCTION MATERIALS O	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$1,000	\$42	\$958	G-411-0471-3320	CONTRACTS	\$500	(\$500)	-50.0%	\$0	\$500	(\$500)	-50.0%
\$5,000	\$5,374	(\$374)	G-411-0471-3510	EQUIPMENT RENTALS : OWNE	\$6,000	\$1,000	20.0%	\$0	\$6,000	\$1,000	20.0%
\$0	\$0	\$0	** TOTAL REVENUE **		\$0	\$0		\$0	\$0	\$0	
\$34,000	\$26,923	\$7,077	** TOTAL EXPENSE **		\$26,000	(\$8,000)	-23.5%	\$0	\$26,000	(\$8,000)	-23.5%
\$34,000	\$26,923	\$7,077	0471 VALVES		\$26,000	(\$8,000)	-23.5%	\$0	\$26,000	(\$8,000)	-23.5%

2009 BUDGET	2009 ACTUAL	Variance Fav/(Unfav)	ACCOUNT # and DESCRIPTION	2010 BASE BUDGET	2010 Budget Change (\$)	% Chg	PROPOSED PROGRAM CHANGES	TOTAL 2010 PROPOSED OPERATING	2010 Budget Change (\$)	% Chg
\$50,000	\$46,523	\$3,477	G-411-0472-1110 DISTRIBUTED SALARIES & W	\$45,000	(\$5,000)	-10.0%	\$0	\$45,000	(\$5,000)	-10.0%
\$17,000	\$1,543	\$15,457	G-411-0472-1130 PART TIME SALARIES & WAG	\$2,000	(\$15,000)	-88.2%	\$0	\$2,000	(\$15,000)	-88.2%
\$18,000	\$11,786	\$6,214	G-411-0472-1160 APPLIED BENEFITS	\$14,000	(\$4,000)	-22.2%	\$0	\$14,000	(\$4,000)	-22.2%
\$2,000	\$1,901	\$99	G-411-0472-2110 SAND & GRAVEL	\$2,500	\$500	25.0%	\$0	\$2,500	\$500	25.0%
\$1,000	\$945	\$55	G-411-0472-2130 SOD & SOIL	\$1,500	\$500	50.0%	\$0	\$1,500	\$500	50.0%
\$3,000	\$1,494	\$1,506	G-411-0472-2150 CONSTRUCTION MATERIALS O	\$1,500	(\$1,500)	-50.0%	\$0	\$1,500	(\$1,500)	-50.0%
\$7,000	\$6,728	\$272	G-411-0472-3320 CONTRACTS	\$6,000	(\$1,000)	-14.3%	\$0	\$6,000	(\$1,000)	-14.3%
\$15,000	\$11,688	\$3,312	G-411-0472-3510 EQUIPMENT RENTALS : OWNE	\$10,000	(\$5,000)	-33.3%	\$0	\$10,000	(\$5,000)	-33.3%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0		\$0	\$0	\$0	
\$113,000	\$82,608	\$30,392	** TOTAL EXPENSE **	\$82,500	(\$30,500)	-27.0%	\$0	\$82,500	(\$30,500)	-27.0%
\$113,000	\$82,608	\$30,392	0472 REPAIR & REPLACE MAINS	\$82,500	(\$30,500)	-27.0%	\$0	\$82,500	(\$30,500)	-27.0%
(\$1,000)	(\$1,126)	\$126	G-411-0473-0593 SERVICES RENDERED	(\$1,000)	\$0	0.0%	\$0	(\$1,000)	\$0	0.0%
\$45,000	\$37,004	\$7,996	G-411-0473-1110 DISTRIBUTED SALARIES & W	\$35,000	(\$10,000)	-22.2%	\$0	\$35,000	(\$10,000)	-22.2%
\$10,000	\$3,820	\$6,180	G-411-0473-1130 PART TIME SALARIES & WAG	\$3,500	(\$6,500)	-65.0%	\$0	\$3,500	(\$6,500)	-65.0%
\$15,000	\$9,665	\$5,335	G-411-0473-1160 APPLIED BENEFITS	\$11,000	(\$4,000)	-26.7%	\$0	\$11,000	(\$4,000)	-26.7%
\$1,000	\$464	\$536	G-411-0473-2110 SAND & GRAVEL	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$1,000	\$978	\$22	G-411-0473-2130 SOD & SOIL	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$5,000	\$4,090	\$910	G-411-0473-2150 CONSTRUCTION MATERIALS O	\$2,500	(\$2,500)	-50.0%	\$0	\$2,500	(\$2,500)	-50.0%
\$15,000	\$3,653	\$11,347	G-411-0473-3320 CONTRACTS	\$10,000	(\$5,000)	-33.3%	\$0	\$10,000	(\$5,000)	-33.3%
\$17,500	\$15,758	\$1,742	G-411-0473-3510 EQUIPMENT RENTALS : OWNE	\$15,000	(\$2,500)	-14.3%	\$0	\$15,000	(\$2,500)	-14.3%
(\$1,000)	(\$1,126)	\$126	** TOTAL REVENUE **	(\$1,000)	\$0	0.0%	\$0	(\$1,000)	\$0	0.0%
\$109,500	\$75,432	\$34,068	** TOTAL EXPENSE **	\$79,000	(\$30,500)	-27.9%	\$0	\$79,000	(\$30,500)	-27.9%
\$108,500	\$74,306	\$34,194	0473 REPAIR & REPLACE SERVICES	\$78,000	(\$30,500)	-28.1%	\$0	\$78,000	(\$30,500)	-28.1%
\$12,000	\$15,615	(\$3,615)	G-411-0474-1110 DISTRIBUTED SALARIES & W	\$16,000	\$4,000	33.3%	\$0	\$16,000	\$4,000	33.3%
\$6,000	\$1,900	\$4,100	G-411-0474-1130 PART TIME SALARIES & WAG	\$2,000	(\$4,000)	-66.7%	\$0	\$2,000	(\$4,000)	-66.7%
\$5,000	\$4,199	\$801	G-411-0474-1160 APPLIED BENEFITS	\$5,000	\$0	0.0%	\$0	\$5,000	\$0	0.0%
\$500	\$0	\$500	G-411-0474-2150 CONSTRUCTION MATERIALS O	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$3,000	\$4,077	(\$1,077)	G-411-0474-3510 EQUIPMENT RENTALS : OWNE	\$4,000	\$1,000	33.3%	\$0	\$4,000	\$1,000	33.3%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0		\$0	\$0	\$0	
\$26,500	\$25,791	\$709	** TOTAL EXPENSE **	\$27,500	\$1,000	3.8%	\$0	\$27,500	\$1,000	3.8%
\$26,500	\$25,791	\$709	0474 WATERMAIN CLEANING	\$27,500	\$1,000	3.8%	\$0	\$27,500	\$1,000	3.8%
\$5,000	\$3,756	\$1,244	G-411-0475-1110 DISTRIBUTED SALARIES & W	\$0	(\$5,000)	-100.0%	\$33,500	\$33,500	\$28,500	570.0%
\$500	\$75	\$425	G-411-0475-1130 PART TIME SALARIES & WAG	\$33,500	\$33,000	6600.0%	\$0	\$33,500	\$33,000	6600.0%
\$1,500	\$1,022	\$478	G-411-0475-1160 APPLIED BENEFITS	\$3,500	\$2,000	133.3%	\$3,500	\$7,000	\$5,500	366.7%
\$500	\$0	\$500	G-411-0475-2150 CONSTRUCTION MATERIALS O	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$5,000	\$0	\$5,000	G-411-0475-3340 CONSULTANTS	\$5,000	\$0	0.0%	\$0	\$5,000	\$0	0.0%
\$2,000	\$1,183	\$817	G-411-0475-3510 EQUIPMENT RENTALS : OWNE	\$20,000	\$18,000	900.0%	\$20,000	\$40,000	\$38,000	1900.0%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0		\$0	\$0	\$0	
\$14,500	\$6,036	\$8,464	** TOTAL EXPENSE **	\$62,500	\$48,000	331.0%	\$57,000	\$119,500	\$105,000	724.1%
\$14,500	\$6,036	\$8,464	0475 METER READINGS	\$62,500	\$48,000	331.0%	\$57,000	\$119,500	\$105,000	724.1%

2009 BUDGET	2009 ACTUAL	Variance Fav/(Unfav)	ACCOUNT # and DESCRIPTION	2010 BASE BUDGET	2010 Budget Change (\$)	% Chg	PROPOSED PROGRAM CHANGES	TOTAL 2010 PROPOSED OPERATING	2010 Budget Change (\$)	% Chg
(\$1,000)	(\$5,584)	\$4,584	G-411-0476-0593 SERVICES RENDERED	(\$1,000)	\$0	0.0%	\$0	(\$1,000)	\$0	0.0%
\$15,000	\$6,741	\$8,259	G-411-0476-1110 DISTRIBUTED SALARIES & W	\$35,000	\$20,000	133.3%	\$0	\$35,000	\$20,000	133.3%
\$2,000	\$284	\$1,716	G-411-0476-1130 PART TIME SALARIES & WAG	\$500	(\$1,500)	-75.0%	\$0	\$500	(\$1,500)	-75.0%
\$5,000	\$1,639	\$3,361	G-411-0476-1160 APPLIED BENEFITS	\$10,500	\$5,500	110.0%	\$0	\$10,500	\$5,500	110.0%
\$25,000	\$11,830	\$13,170	G-411-0476-2150 CONSTRUCTION MATERIALS O	\$30,000	\$5,000	20.0%	\$0	\$30,000	\$5,000	20.0%
\$20,000	\$0	\$20,000	G-411-0476-3320 CONTRACTS	\$2,000	(\$18,000)	-90.0%	\$0	\$2,000	(\$18,000)	-90.0%
\$3,000	\$1,846	\$1,154	G-411-0476-3510 EQUIPMENT RENTALS : OWNE	\$7,000	\$4,000	133.3%	\$0	\$7,000	\$4,000	133.3%
(\$1,000)	(\$5,584)	\$4,584	** TOTAL REVENUE **	(\$1,000)	\$0	0.0%	\$0	(\$1,000)	\$0	0.0%
\$70,000	\$22,340	\$47,660	** TOTAL EXPENSE **	\$85,000	\$15,000	21.4%	\$0	\$85,000	\$15,000	21.4%
\$69,000	\$16,756	\$52,244	0476 METER REPAIRS	\$84,000	\$15,000	21.7%	\$0	\$84,000	\$15,000	21.7%
(\$5,000)	(\$2,904)	(\$2,096)	G-411-0477-0593 SERVICES RENDERED	\$0	\$5,000	-100.0%	\$0	\$0	\$5,000	-100.0%
(\$24,500)	(\$17,850)	(\$6,650)	G-411-0477-0595 TAPPING FEES	(\$25,000)	(\$500)	2.0%	\$0	(\$25,000)	(\$500)	2.0%
\$7,500	\$7,931	(\$431)	G-411-0477-1110 DISTRIBUTED SALARIES & W	\$6,000	(\$1,500)	-20.0%	\$0	\$6,000	(\$1,500)	-20.0%
\$1,500	\$847	\$653	G-411-0477-1130 PART TIME SALARIES & WAG	\$1,000	(\$500)	-33.3%	\$0	\$1,000	(\$500)	-33.3%
\$2,500	\$2,129	\$371	G-411-0477-1160 APPLIED BENEFITS	\$2,000	(\$500)	-20.0%	\$0	\$2,000	(\$500)	-20.0%
\$500	\$454	\$46	G-411-0477-2110 SAND & GRAVEL	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$500	\$262	\$238	G-411-0477-2130 SOD & SOIL	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$3,000	\$5,539	(\$2,539)	G-411-0477-2150 CONSTRUCTION MATERIALS O	\$5,000	\$2,000	66.7%	\$0	\$5,000	\$2,000	66.7%
\$10,000	\$3,263	\$6,737	G-411-0477-3320 CONTRACTS	\$5,000	(\$5,000)	-50.0%	\$0	\$5,000	(\$5,000)	-50.0%
\$4,000	\$6,850	(\$2,850)	G-411-0477-3510 EQUIPMENT RENTALS : OWNE	\$5,000	\$1,000	25.0%	\$0	\$5,000	\$1,000	25.0%
(\$29,500)	(\$20,754)	(\$8,746)	** TOTAL REVENUE **	(\$25,000)	\$4,500	-15.3%	\$0	(\$25,000)	\$4,500	-15.3%
\$29,500	\$27,275	\$2,225	** TOTAL EXPENSE **	\$25,000	(\$4,500)	-15.3%	\$0	\$25,000	(\$4,500)	-15.3%
\$0	\$6,521	(\$6,521)	0477 SERVICE INSTALLATIONS (NEW)	\$0	\$0		\$0	\$0	\$0	
(\$35,000)	(\$13,488)	(\$21,512)	G-411-0478-0593 SERVICES RENDERED	(\$35,000)	\$0	0.0%	\$0	(\$35,000)	\$0	0.0%
\$10,000	\$7,279	\$2,721	G-411-0478-1110 DISTRIBUTED SALARIES & W	\$10,000	\$0	0.0%	\$0	\$10,000	\$0	0.0%
\$1,000	\$950	\$50	G-411-0478-1130 PART TIME SALARIES & WAG	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$3,500	\$2,007	\$1,493	G-411-0478-1160 APPLIED BENEFITS	\$3,000	(\$500)	-14.3%	\$0	\$3,000	(\$500)	-14.3%
\$10,000	\$7,072	\$2,928	G-411-0478-2150 CONSTRUCTION MATERIALS O	\$10,000	\$0	0.0%	\$0	\$10,000	\$0	0.0%
\$3,000	\$2,218	\$782	G-411-0478-3510 EQUIPMENT RENTALS : OWNE	\$3,000	\$0	0.0%	\$0	\$3,000	\$0	0.0%
(\$35,000)	(\$13,488)	(\$21,512)	** TOTAL REVENUE **	(\$35,000)	\$0	0.0%	\$0	(\$35,000)	\$0	0.0%
\$27,500	\$19,526	\$7,974	** TOTAL EXPENSE **	\$27,000	(\$500)	-1.8%	\$0	\$27,000	(\$500)	-1.8%
(\$7,500)	\$6,038	(\$13,538)	0478 METER INSTALLATIONS	(\$8,000)	(\$500)	6.7%	\$0	(\$8,000)	(\$500)	6.7%
\$20,000	\$21,730	(\$1,730)	G-411-0479-1110 DISTRIBUTED SALARIES & W	\$20,000	\$0	0.0%	\$0	\$20,000	\$0	0.0%
\$1,000	\$220	\$780	G-411-0479-1130 PART TIME SALARIES & WAG	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$6,500	\$5,473	\$1,027	G-411-0479-1160 APPLIED BENEFITS	\$6,000	(\$500)	-7.7%	\$0	\$6,000	(\$500)	-7.7%
\$500	\$635	(\$135)	G-411-0479-2150 CONSTRUCTION MATERIALS O	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$5,000	\$5,852	(\$852)	G-411-0479-3510 EQUIPMENT RENTALS : OWNE	\$6,000	\$1,000	20.0%	\$0	\$6,000	\$1,000	20.0%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0		\$0	\$0	\$0	
\$33,000	\$33,910	(\$910)	** TOTAL EXPENSE **	\$33,500	\$500	1.5%	\$0	\$33,500	\$500	1.5%
\$33,000	\$33,910	(\$910)	0479 UTIL	\$33,500	\$500	1.5%	\$0	\$33,500	\$500	1.5%

2009 BUDGET	2009 ACTUAL	Variance Fav/(Unfav)	ACCOUNT # and DESCRIPTION	2010 BASE BUDGET	2010 Budget Change (\$)	% Chg	PROPOSED PROGRAM CHANGES	TOTAL 2010 PROPOSED OPERATING	2010 Budget Change (\$)	% Chg
(\$9,000)	(\$10,230)	\$1,230	G-411-0481-0593 SERVICES RENDERED	(\$9,000)	\$0	0.0%	\$0	(\$9,000)	\$0	0.0%
\$25,000	\$29,604	(\$4,604)	G-411-0481-1110 DISTRIBUTED SALARIES & W	\$30,000	\$5,000	20.0%	\$0	\$30,000	\$5,000	20.0%
\$8,000	\$7,198	\$802	G-411-0481-1130 PART TIME SALARIES & WAG	\$8,000	\$0	0.0%	\$0	\$8,000	\$0	0.0%
\$8,500	\$8,266	\$234	G-411-0481-1160 APPLIED BENEFITS	\$10,000	\$1,500	17.6%	\$0	\$10,000	\$1,500	17.6%
\$4,000	\$14,481	(\$10,481)	G-411-0481-2150 CONSTRUCTION MATERIALS O	\$4,000	\$0	0.0%	\$0	\$4,000	\$0	0.0%
\$10,000	\$6,310	\$3,690	G-411-0481-3320 CONTRACTS	\$10,000	\$0	0.0%	\$0	\$10,000	\$0	0.0%
\$7,500	\$13,370	(\$5,870)	G-411-0481-3510 EQUIPMENT RENTALS : OWNE	\$12,000	\$4,500	60.0%	\$0	\$12,000	\$4,500	60.0%
(\$9,000)	(\$10,230)	\$1,230	** TOTAL REVENUE **	(\$9,000)	\$0	0.0%	\$0	(\$9,000)	\$0	0.0%
\$63,000	\$79,229	(\$16,229)	** TOTAL EXPENSE **	\$74,000	\$11,000	17.5%	\$0	\$74,000	\$11,000	17.5%
\$54,000	\$68,999	(\$14,999)	0481 HYDRANTS	\$65,000	\$11,000	20.4%	\$0	\$65,000	\$11,000	20.4%
(\$2,000)	(\$790)	(\$1,210)	G-411-0482-0593 SERVICES RENDERED	(\$2,000)	\$0	0.0%	\$0	(\$2,000)	\$0	0.0%
\$3,000	\$448	\$2,552	G-411-0482-1110 DISTRIBUTED SALARIES & W	\$3,000	\$0	0.0%	\$0	\$3,000	\$0	0.0%
\$500	\$110	\$390	G-411-0482-1130 PART TIME SALARIES & WAG	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$1,000	\$131	\$869	G-411-0482-1160 APPLIED BENEFITS	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
\$500	\$200	\$300	G-411-0482-2150 CONSTRUCTION MATERIALS O	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$1,500	\$1,022	\$478	G-411-0482-3320 CONTRACTS	\$1,500	\$0	0.0%	\$0	\$1,500	\$0	0.0%
\$1,000	\$130	\$870	G-411-0482-3510 EQUIPMENT RENTALS : OWNE	\$1,000	\$0	0.0%	\$0	\$1,000	\$0	0.0%
(\$2,000)	(\$790)	(\$1,210)	** TOTAL REVENUE **	(\$2,000)	\$0	0.0%	\$0	(\$2,000)	\$0	0.0%
\$7,500	\$2,041	\$5,459	** TOTAL EXPENSE **	\$7,500	\$0	0.0%	\$0	\$7,500	\$0	0.0%
\$5,500	\$1,251	\$4,249	0482 IRRIGATION FROM HYDRANTS	\$5,500	\$0	0.0%	\$0	\$5,500	\$0	0.0%
\$2,500	\$4,692	(\$2,192)	G-411-0483-1110 DISTRIBUTED SALARIES & W	\$2,500	\$0	0.0%	\$0	\$2,500	\$0	0.0%
\$0	\$110	(\$110)	G-411-0483-1130 PART TIME SALARIES & WAG	\$0	\$0	0.0%	\$0	\$0	\$0	0.0%
\$750	\$680	\$70	G-411-0483-1160 APPLIED BENEFITS	\$750	\$0	0.0%	\$0	\$750	\$0	0.0%
\$2,000	\$2,058	(\$58)	G-411-0483-2150 CONSTRUCTION MATERIALS OT	\$2,000	\$0	0.0%	\$0	\$2,000	\$0	0.0%
\$2,500	\$987	\$1,513	G-411-0483-3320 CONTRACTS	\$2,000	(\$500)	-20.0%	\$0	\$2,000	(\$500)	-20.0%
\$1,000	\$1,115	(\$115)	G-411-0483-3510 EQUIPMENT RENTALS : OWNE	\$1,500	\$500	50.0%	\$0	\$1,500	\$500	50.0%
\$2,000	\$2,046	(\$46)	G-411-0483-3610 HYDRO	\$2,000	\$0	0.0%	\$0	\$2,000	\$0	0.0%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0	0.0%	\$0	\$0	\$0	0.0%
\$10,750	\$11,688	(\$938)	** TOTAL EXPENSE **	\$10,750	\$0	0.0%	\$0	\$10,750	\$0	0.0%
\$10,750	\$11,688	(\$938)	0483 BULK WATER STATION	\$10,750	\$0	0.0%	\$0	\$10,750	\$0	0.0%
\$21,550	\$68	\$21,482	G-411-0484-1110 DISTRIBUTED SALARIES & W	\$25,000	\$3,450	16.0%	\$0	\$25,000	\$3,450	16.0%
\$4,400	\$56	\$4,344	G-411-0484-1160 APPLIED BENEFITS	\$7,500	\$3,100	70.5%	\$0	\$7,500	\$3,100	70.5%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0	0.0%	\$0	\$0	\$0	0.0%
\$25,950	\$124	\$25,826	** TOTAL EXPENSE **	\$32,500	\$6,550	25.2%	\$0	\$32,500	\$6,550	25.2%
\$25,950	\$124	\$25,826	0484 COMPLIANCE	\$32,500	\$6,550	25.2%	\$0	\$32,500	\$6,550	25.2%
\$2,000	\$1,287	\$713	G-411-0744-1110 DISTRIBUTED SALARIES & W	\$2,000	\$0	0.0%	\$0	\$2,000	\$0	0.0%
\$500	\$453	\$47	G-411-0744-1160 APPLIED BENEFITS	\$500	\$0	0.0%	\$0	\$500	\$0	0.0%
\$0	\$0	\$0	** TOTAL REVENUE **	\$0	\$0	0.0%	\$0	\$0	\$0	0.0%
\$2,500	\$1,740	\$760	** TOTAL EXPENSE **	\$2,500	\$0	0.0%	\$0	\$2,500	\$0	0.0%
\$2,500	\$1,740	\$760	0744 INVENTORY	\$2,500	\$0	0.0%	\$0	\$2,500	\$0	0.0%
(\$4,131,050)	(\$3,381,466)	(\$749,584)	** TOTAL REVENUE **	(\$4,204,073)	(\$73,023)	1.8%	\$0	(\$4,204,073)	(\$73,023)	1.8%
\$4,131,050	\$3,381,466	\$749,584	** TOTAL EXPENSE **	\$4,204,073	\$73,023	1.8%	\$0	\$4,204,073	\$73,023	1.8%
\$0	\$0	\$0	411 WATER DISTRIBUTION	\$0	\$0		\$0	\$0	\$0	

APPENDIX E

FULL COST CALCULATIONS (NET) FOR WATER SYSTEMS

Full Cost Assessment - Water System - Rates & Reserve Calculations for the Period 2010 to 2034

Table E1: Capital Cost (Net) Estimates (in \$1,000's) without inflation (in 2010 \$)

Time Frame, Years	25																									
Inflation At	0%																									
Interest at	4%																									
Capital Cost Item	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25	
Watermain Replacement/ Rehabilitation	\$33,800	\$404,000	\$865,400	\$1,157,000	\$926,250	\$1,196,365	\$1,196,365	\$1,196,365	\$1,196,365	\$1,196,365	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000	\$1,341,000
Water Needs Studies	\$0.000	\$0.000	\$0.000	\$0.000	\$20,000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$20,000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Water Loss Reduction Program	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$100,000	\$0.000	\$0.000	\$0.000	\$0.000	\$100,000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$100,000	\$0.000	\$0.000	\$0.000	\$100,000
Growth Related Projects	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$13,940	\$5,200	\$6,200	\$0.000	\$0.000	\$0.000	\$66,000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Non Growth Projects (Loops, Others etc)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$125,000	\$0.000	\$0.000	\$0.000	\$0.000	\$125,000	\$0.000	\$0.000	\$0.000	\$0.000	\$125,000	\$0.000	\$0.000	\$0.000	\$0.000	\$125,000	\$0.000	\$0.000	\$125,000	
Annual Net Capital Costs @ 2010 Price Levels	0	\$33,800	\$404,000	\$865,400	\$1,157,000	\$946,250	\$1,296,365	\$1,321,365	\$1,210,305	\$1,201,565	\$1,222,565	\$1,441,000	\$1,466,000	\$1,341,000	\$1,407,000	\$1,361,000	\$1,441,000	\$1,466,000	\$1,341,000	\$1,341,000	\$1,361,000	\$1,441,000	\$1,466,000	\$1,341,000	\$1,341,000	\$1,566,000

Table E2: Calculation of Annual Water Costs (in \$1,000's) (Net)

Inflation Index	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
Annual Water Volumes (Existing) (1000m³)	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577	2,770.577
Annual Water Volumes (Growth) (1000m³)	0.000	27.319	65.940	65.940	65.940	65.940	65.940	65.940	56.797	56.797	56.797	56.797	56.797	49.039	49.039	49.039	49.039	49.039	41.836	41.836	41.836	41.836	41.836	41.836	41.836	41.836	41.836
Total Annual Water Volumes (Existing & Growth) (1000m³)	2,770.577	2,797.895	2,836.516	2,836.516	2,836.516	2,836.516	2,836.516	2,836.516	2,827.373	2,827.373	2,827.373	2,827.373	2,827.373	2,819.616	2,819.616	2,819.616	2,819.616	2,819.616	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412
Projected Annual Regional Fixed Charge (25%) (Without Growth)	\$488,737	\$533,344	\$576,012	\$622,093	\$671,860	\$725,609	\$769,146	\$815,294	\$864,212	\$916,065	\$971,029	\$1,029,290	\$1,091,048	\$1,156,511	\$1,225,901	\$1,299,455	\$1,377,423	\$1,460,068	\$1,547,672	\$1,640,533	\$1,738,965	\$1,843,302	\$1,953,901	\$2,071,135	\$2,195,403		
Projected Annual Regional Variable Charge (75%) (without Growth)	\$1,464,235	\$1,600,839	\$1,728,906	\$1,867,219	\$2,016,596	\$2,177,924	\$2,308,599	\$2,447,115	\$2,593,942	\$2,749,579	\$2,914,554	\$3,089,427	\$3,274,792	\$3,471,280	\$3,679,557	\$3,900,330	\$4,134,350	\$4,382,411	\$4,645,355	\$4,924,077	\$5,219,521	\$5,532,693	\$5,864,654	\$6,216,534	\$6,589,526		
Projected Annual Regional Fixed Charge Increase Due to Growth (\$)	\$0.000	\$5,229	\$13,741	\$14,841	\$16,028	\$17,310	\$18,349	\$18,651	\$19,770	\$20,956	\$22,213	\$23,546	\$23,889	\$25,322	\$26,842	\$28,452	\$30,159	\$29,583	\$31,358	\$33,240	\$35,234	\$37,348	\$39,589	\$41,964	\$44,482		
Projected Annual Regional Variable Charge Increase Due to Growth (\$)	\$0.000	\$15,785	\$41,148	\$44,440	\$47,995	\$51,835	\$54,945	\$50,166	\$53,176	\$56,366	\$59,748	\$63,333	\$57,964	\$61,442	\$65,128	\$69,036	\$73,178	\$66,174	\$70,145	\$74,354	\$78,815	\$83,544	\$88,556	\$93,870	\$99,502		
Rate Stabilization Allowance for Demand Variations and Emergency Fund	\$0.000	\$215,520	\$20,461	\$18,878	\$20,389	\$22,020	\$17,836	\$18,019	\$19,987	\$21,187	\$22,458	\$23,805	\$24,210	\$26,686	\$28,287	\$29,985	\$31,784	\$32,313	\$35,629	\$37,767	\$40,033	\$42,435	\$44,981	\$47,680	\$50,541		
Annual Contribution to Capital Reserve	\$785,993	\$793,853	\$801,791	\$809,809	\$817,907	\$826,087	\$834,347	\$842,691	\$851,118	\$859,629	\$868,225	\$876,908	\$885,677	\$894,533	\$903,479	\$912,513	\$921,639	\$930,855	\$940,164	\$949,565	\$959,061	\$968,651	\$978,338	\$988,121	\$998,003		
Annual Distribution O&M Costs (in 2010 \$)	\$1,053,500	\$1,085,105	\$1,117,658	\$1,151,188	\$1,185,724	\$1,221,295	\$1,257,934	\$1,295,672	\$1,334,542	\$1,374,579	\$1,415,816	\$1,458,290	\$1,502,039	\$1,547,100	\$1,593,513	\$1,641,319	\$1,690,558	\$1,741,275	\$1,793,513	\$1,847,319	\$1,902,738	\$1,959,820	\$2,018,615	\$2,079,173	\$2,141,549		
Add 3 % per year for Admin/ Regulation Increases	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%		
Capital Costs @ 2010 Prices	\$33,800	\$404,000	\$865,400	\$1,157,000	\$946,250	\$1,296,365	\$1,321,365	\$1,210,305	\$1,201,565	\$1,222,565	\$1,441,000	\$1,466,000	\$1,341,000	\$1,407,000	\$1,361,000	\$1,441,000	\$1,466,000	\$1,341,000	\$1,341,000	\$1,361,000	\$1,441,000	\$1,466,000	\$1,341,000	\$1,341,000	\$1,566,000		
Internal Loan from Town (Interest at 0%)	\$0.000	\$0.000	\$0.000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000		
Debt Charges (including Interest)	\$10,780	\$127,407	\$254,815	\$294,615	\$412,019	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$310,701	\$270,900	\$153,497	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000		
Total Net Annual Costs (in 2010 \$)	-	\$3,837,045	\$4,781,082	\$5,419,933	\$6,050,083	\$6,204,768	\$6,973,960	\$7,218,037	\$7,333,428	\$7,573,828	\$7,856,440	\$8,350,558	\$8,666,115	\$8,581,319	\$8,860,775	\$9,037,204	\$9,322,090	\$9,725,090	\$9,983,679	\$10,404,837	\$10,867,853	\$11,415,367	\$11,933,794	\$12,329,634	\$12,879,477	\$13,685,004	
Annual Net Cost Per Cubic Metre (in 2010 \$)	-	\$1.385	\$1.709	\$1.911	\$2.133	\$2.187	\$2.459	\$2.545	\$2.594	\$2.679	\$2.779	\$2.953	\$3.065	\$3.043	\$3.143	\$3.205	\$3.306	\$3.449	\$3.550	\$3.700	\$3.864	\$4.059	\$4.243	\$4.384	\$4.580	\$4.866	

NPV Cash Flow	\$ 126,311,434
NPV Volume	44,051,935
Levelized Net Cost per Cubic Metre (in 2010 \$)	\$ 2.867
Levelized Net Annual Cost (in 2010 \$)	\$ 8,085,443

Table E3: Composition of Levelized Net Cost (in \$1,000's) in 2010 \$ (Water)

Cost Component	NPV Cost	Levelized Annual Cost	Unit Cost (\$/m³)	%
Capital - Pipe Replacement	\$17,375.76	\$1,112.26	0.394	13.76%
Capital - Studies	\$50.18	\$3.21	0.001	0.04%
Capital - Loss Reduction Program	\$278.78	\$17.84	0.006	0.22%
Capital - Growth	\$56.14	\$3.59	0.001	0.04%
Capital - Other (Looping etc)	\$336.87	\$21.56	0.008	0.27%
Water Purchase - Region Fixed Charge (25%)	\$16,386.43	\$1,048.93	0.372	12.97%
Water Purchase - Region Variable Charge (75%)	\$49,181.45	\$3,148.20	1.116	38.94%
Water Purchase - Region Fixed Charge (Growth)	\$340.89	\$21.82	0.008	0.27%
Water Purchase - Region Variable Charge (Growth)	\$862.28	\$55.20	0.020	0.68%
Rate Stabilization Allowance	\$571.65	\$36.59	0.013	0.45%
Contribution to Capital Reserve	\$13,596.06	\$870.31	0.309	10.76%
O&M	\$22,606.92	\$1,447.11	0.513	17.90%
Debt Payment	\$4,668.02	\$298.81	0.106	0.037
Total Levelized Annual Net Costs (in 2010 \$)	\$126,311.43	\$8,085.443	\$2.867	100%

APPENDIX F

INFORMATION REQUIRED TO MEET ONTARIO REGULATION 453/07 REQUIREMENTS

Table F1 – Meeting O. Reg. 453/07 Requirements

Requirements		How Requirements are Being Met
1.	The financial plans must be approved by a resolution that is passed by,	
	i. The council of the municipality, if the owner of the drinking water system is a municipality.	See separate Council Resolution.
	ii. The governing body of the owner, if the owner of the drinking water system has a governing body and is not a municipality.	N/A
2.	The financial plans must apply to a period of at least six years.	Plan is for a 25 year period.
3.	The first year to which the financial plans must apply must be the year determined in accordance with the following rules:	
	i. If the financial plans are required by subsection 2, the first year to which the financial plans must apply must be the year in which the drinking water system's existing municipal drinking water licence would otherwise expire.	Financial Plan is intended to apply in 2011, subject to final approval by new Council.
	ii. If the financial plans are required by a condition that was included in a municipal drinking water licence under subsection 1 (3), the first year to which the financial plans must apply must be the later of 2010 and the year in which the first licence for the system was issued.	
4.	Subject to subsection (2), for each year to which the financial plans apply, the financial plans must include the following:	
	i. Details of the proposed or projected financial position of the drinking water system itemized by:	Proposed or Projected Financial Position is calculated as the financial assets less the total financial liabilities plus the value of the non-financial assets projected for each year in the study period. Table F2 provides this information.
	a. Total financial assets	These are the cash or cash equivalents held by the Town projected for each year of the study period. The Town is not expected to have any cash equivalents. All accounts receivables are assumed to be collected by year end. See Table F2 attached to this Appendix.
	b. Total liabilities	This is the projected debt for each year. All accounts payable are assumed to be paid by year end. See Table F2.
	c. Net debt	This is calculated as the difference between the financial assets and the total liabilities. See Table F2.
	d. Non-financial assets that are tangible capital assets, tangible capital assets under construction, inventories of supplies and prepaid expenses,	This is the projected value of the tangible capital assets such as the watermains etc. in any given year. The starting asset value in 2010 is according to PSAB data provided by the Town. Inventory amounts are based on mid-year inventory value for 2010. It is assumed that the Town will not prepay any expenses. See Table F2.

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

	e. Changes in tangible capital assets that are additions, donations, write downs and disposals.	This is calculated as the change in value of the tangible assets as new system infrastructure is added and/or decommissioned over the study period. The addition of new assets due to growth would depend on whether or not the developers follow through on construction. See Table F2.
ii.	Details of the proposed or projected financial operations of the drinking water system itemized by,	Proposed or projected financial operations are calculated as the total revenues less total expenses projected for each year to show the annual surplus or deficit and the accumulated surplus of deficit at the end of each year. See Tables I7, I8, & I9 in Appendix I.
	a. Total revenues, further itemized by water rates, user charges and other revenues.	These are the revenues generated annually from the customer charges and rates set by the Town and the business revenues collected from daily operations. See Tables I7, I8, & I9 in Appendix I.
	b. Total expenses, further itemized by amortization expenses, interest expenses and other expenses	This includes the Town's cost to purchase treated drinking water from the Region, operate the water distribution system, pay debt and contribute sums to a capital reserve and a rate stabilization reserve. See Tables I7, I8, & I9 in Appendix I.
	c. Annual surplus or deficit, and	This is the funds remaining (surplus) or the funding shortfall (deficit) each year after revenues are used to offset expenses. See Tables I7, I8, & I9 in Appendix I.
	d. Accumulated surplus or deficit	This is the cumulative deficit or surplus projected at the end of each year including prior years. See Tables I7, I8, & I9 in Appendix I.
iii.	Details of the drinking water system's proposed or projected gross cash receipts and gross cash payments itemized by,	<p>The projected Gross Cash receipts is calculated as the sum of the projected operating revenues, proceeds from the sale of tangible assets, disposal of investments, proceeds from the issuance of debt, cash or cash equivalents at the end of each year.</p> <p>The projected Gross Cash payments is calculated as the sum of the projected operating expenses, cash used to acquire tangible assets, acquisition of investments, debt expenses, cash or cash equivalents at the end of each year. See Table F3.</p>
	a. Operating transactions that are cash received from revenues, cash paid for operating expenses and finance charges, - done in full cost report	These are cash received as revenues and cash paid for expenses each year. See Table F3.
	b. Capital transactions that are proceeds on the sale of tangible capital assets and cash used to acquire capital assets,	These are the projected cash received from the sale of assets or the cash used to acquire assets each year. There is no sale of tangible assets to derive cash. However, there is the use of cash to used to acquire assets i.e. build watermains etc. See Table F3.
	c. Investing transactions that are acquisitions and disposal of investments,	This information was not available at the time of preparing the financial plan. See Table F3.
	d. Financing transactions that are proceeds from the issuance of debt and debt repayment.	These are the projected cash to be obtained through debt and the expenses to be incurred for repayment of such debt each year. See Table F3.
	e. Changes in cash and cash equivalents during the year,	See Table F3 for these projected changes.
	f. Cash and cash equivalents at the beginning and end of the year.	This is estimated as the cash on hand at the beginning and end of each year. See Table F3

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

	iv.	Details of the extent to which the information described in subparagraphs i, ii and iii relates directly to the replacement of lead service pipes as defined in section 15.1- 3 of Schedule 15.1 to Ontario Regulation 170/03 (Drinking Water Systems), made under the Act.	The Town is not required to replace lead service pipes based on the results of the community lead sampling program. The MOE has advised that the sampling is no longer required (MOE letter dated January 15, 2010)
5.		The owner of the drinking water system must.	
	i.	Make the financial plans available, on request, to members of the public who are served by the drinking water system without charge,	The financial plan will be made available at no charge to the public following approval.
	ii.	Make the financial plans available to members of the public without charge through publication on the Internet, if the owner maintains a website on the Internet,	The financial plan will be posted on the Town's website and available to the public at no charge.
	iii.	Provide notice advising the public of the availability of the financial plans under subparagraphs i and ii, if applicable, in a manner that, in the opinion of the owner, will bring the notice to the attention of members of the public who are served by the drinking water system.	A notice will be placed in the local newspaper following approval of the plan.
6.		The owner of the drinking water system must give a copy of the financial plans to the Ministry of Municipal Affairs and Housing. O. Reg. 453/07, s. 3 (1).	
		Each of the following sub-subparagraphs applies only if the information referred to in the sub-subparagraph is known to the owner at the time the financial plans are prepared.	
	1.	Sub-subparagraphs 4 i A, B and C of subsection (1).	See comments in respective sections above.
	2.	Sub-subparagraphs 4 iii A, C, E and F of subsection (1). O. Reg. 453/07, s. 3 (2).	See comments in respective sections above.

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

Table F2: Projected Financial Position (2010 - 2034)

Description	2010	2011	2012	2013	2014	2015	2016
Financial Assets							
Cash	\$ 115,154	\$ 1,177,046	\$ 2,510,311	\$ 2,549,732	\$ 3,421,476	\$ 3,470,174	\$ 3,102,240
Cash Equivalents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accounts Receivable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Financial Assets	\$ 115,154	\$ 1,177,046	\$ 2,510,311	\$ 2,549,732	\$ 3,421,476	\$ 3,470,174	\$ 3,102,240
Liabilities							
Accounts Payable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Reserve Fund Contributions	\$ 785,993	\$ 793,853	\$ 801,791	\$ 809,809	\$ 817,907	\$ 826,087	\$ 834,347
Rate Stabilization Reserve Fund Contributions	\$ -	\$ 219,830	\$ 21,288	\$ 20,034	\$ 22,069	\$ 24,312	\$ 20,086
Long Term Debt	\$ 1,789,220	\$ 2,042,313	\$ 2,591,943	\$ 2,297,327	\$ 3,042,308	\$ 4,128,191	\$ 3,562,676
Internal Loan from Town	\$ 700,000	\$ 700,000	\$ 700,000	\$ 630,000	\$ 560,000	\$ 490,000	\$ 420,000
Total Financial Liabilities	\$ 3,275,213	\$ 3,755,996	\$ 4,115,022	\$ 3,757,171	\$ 4,442,285	\$ 5,468,589	\$ 4,837,109
Net Debt (Net Financial Assets)	\$ 3,160,059	\$ 2,578,950	\$ 1,604,711	\$ 1,207,439	\$ 1,020,809	\$ 1,998,415	\$ 1,734,869
Non Financial Assets							
Tangible Capital Assets (Start of Year)	\$ 53,201,976	\$ 53,324,383	\$ 53,818,388	\$ 54,776,248	\$ 56,325,864	\$ 57,586,081	\$ 59,426,716
Assets Added							
Pipe Replacement	\$ 33,800	\$ 404,000	\$ 865,400	\$ 1,157,000	\$ 926,250	\$ 1,196,365	\$ 1,196,365
New Infrastructure (Development)	\$ -	\$ -	\$ -	\$ 303,400	\$ 239,020	\$ 547,970	\$ 176,120
Materials Inventory	\$ 92,000	\$ 93,840	\$ 95,717	\$ 97,631	\$ 99,584	\$ 101,575	\$ 103,607
Prepaid Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less Assets Removed							
Disposal of Assets (Old Pipe)	\$ 3,393	\$ 3,835	\$ 3,257	\$ 8,415	\$ 4,637	\$ 5,275	\$ 5,275
Total Tangible Capital Assets (End of Year)	\$ 53,324,383	\$ 53,818,388	\$ 54,776,248	\$ 56,325,864	\$ 57,586,081	\$ 59,426,716	\$ 60,897,533
Financial Position - Net Asset Value	\$ 50,164,324	\$ 51,239,438	\$ 53,171,537	\$ 55,118,425	\$ 56,565,272	\$ 57,428,301	\$ 59,162,664

Notes:

Development projections are subject to change as timing depends on developers

Projections include 2% annual inflation

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

Table F2: Projected Financial Position (2010 - 2034)

Description	2017	2018	2019	2020	2021	2022	2023
Financial Assets							
Cash	\$ 2,834,833	\$ 2,782,840	\$ 2,761,339	\$ 2,855,621	\$ 2,656,170	\$ 2,353,977	\$ 2,374,764
Cash Equivalents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accounts Receivable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Financial Assets	\$ 2,834,833	\$ 2,782,840	\$ 2,761,339	\$ 2,855,621	\$ 2,656,170	\$ 2,353,977	\$ 2,374,764
Liabilities							
Accounts Payable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Reserve Fund Contributions	\$ 842,691	\$ 851,118	\$ 859,629	\$ 868,225	\$ 876,908	\$ 885,677	\$ 894,533
Rate Stabilization Reserve Fund Contributions	\$ 20,698	\$ 23,418	\$ 25,320	\$ 27,376	\$ 29,599	\$ 30,704	\$ 34,521
Long Term Debt	\$ 2,997,160	\$ 2,431,644	\$ 1,866,129	\$ 1,300,613	\$ 735,098	\$ 424,397	\$ 153,497
Internal Loan from Town	\$ 350,000	\$ 280,000	\$ 210,000	\$ 140,000	\$ 70,000	\$ -	\$ -
Total Financial Liabilities	\$ 4,210,549	\$ 3,586,180	\$ 2,961,078	\$ 2,336,214	\$ 1,711,604	\$ 1,340,777	\$ 1,082,551
Net Debt (Net Financial Assets)	\$ 1,375,716	\$ 803,340	\$ 199,739	\$ (519,407)	\$ (944,566)	\$ (1,013,200)	\$ (1,292,212)
Non Financial Assets							
Tangible Capital Assets (Start of Year)	\$ 60,897,533	\$ 62,333,702	\$ 63,684,584	\$ 65,047,622	\$ 66,642,969	\$ 68,324,438	\$ 69,776,315
Assets Added							
Pipe Replacement	\$ 1,196,365	\$ 1,196,365	\$ 1,196,365	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000
New Infrastructure (Development)	\$ 139,400	\$ 52,000	\$ 62,000	\$ 148,000	\$ 231,880		\$ 132,000
Materials Inventory	\$ 105,679	\$ 107,793	\$ 109,949	\$ 112,147	\$ 114,390	\$ 116,678	\$ 119,012
Prepaid Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less Assets Removed							
Disposal of Assets (Old Pipe)	\$ 5,275	\$ 5,275	\$ 5,275	\$ 5,801	\$ 5,801	\$ 5,801	\$ 5,801
Total Tangible Capital Assets (End of Year)	\$ 62,333,702	\$ 63,684,584	\$ 65,047,622	\$ 66,642,969	\$ 68,324,438	\$ 69,776,315	\$ 71,362,526
Financial Position - Net Asset Value	\$ 60,957,986	\$ 62,881,244	\$ 64,847,884	\$ 67,162,376	\$ 69,269,004	\$ 70,789,515	\$ 72,654,739

Notes:

Development projections are subject to change as timing depends on developers

Projections include 2% annual inflation

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

Table F2: Projected Financial Position (2010 - 2034)

Description	2024	2025	2026	2027	2028	2029	2030
Financial Assets							
Cash	\$ 2,325,439	\$ 2,344,963	\$ 2,288,065	\$ 2,094,951	\$ 1,992,763	\$ 1,832,692	\$ 1,607,771
Cash Equivalents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accounts Receivable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Financial Assets	\$ 2,325,439	\$ 2,344,963	\$ 2,288,065	\$ 2,094,951	\$ 1,992,763	\$ 1,832,692	\$ 1,607,771
Liabilities							
Accounts Payable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Reserve Fund Contributions	\$ 903,479	\$ 912,513	\$ 921,639	\$ 930,855	\$ 940,164	\$ 949,565	\$ 959,061
Rate Stabilization Reserve Fund Contributions	\$ 37,325	\$ 40,355	\$ 43,632	\$ 45,246	\$ 50,888	\$ 55,020	\$ 59,487
Long Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Internal Loan from Town	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Financial Liabilities	\$ 940,803	\$ 952,869	\$ 965,271	\$ 976,101	\$ 991,051	\$ 1,004,585	\$ 1,018,548
Net Debt (Net Financial Assets)	\$ (1,384,636)	\$ (1,392,094)	\$ (1,322,794)	\$ (1,118,851)	\$ (1,001,712)	\$ (828,107)	\$ (589,223)
Non Financial Assets							
Tangible Capital Assets (Start of Year)	\$ 71,362,526	\$ 72,819,117	\$ 74,278,136	\$ 75,739,631	\$ 77,203,653	\$ 78,670,250	\$ 80,139,476
Assets Added							
Pipe Replacement New Infrastructure (Development)	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000
Materials Inventory	\$ 121,392	\$ 123,820	\$ 126,296	\$ 128,822	\$ 131,399	\$ 134,027	\$ 136,707
Prepaid Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less Assets Removed							
Disposal of Assets (Old Pipe)	\$ 5,801	\$ 5,801	\$ 5,801	\$ 5,801	\$ 5,801	\$ 5,801	\$ 5,801
Total Tangible Capital Assets (End of Year)	\$ 72,819,117	\$ 74,278,136	\$ 75,739,631	\$ 77,203,653	\$ 78,670,250	\$ 80,139,476	\$ 81,611,382
Financial Position - Net Asset Value	\$ 74,203,753	\$ 75,670,230	\$ 77,062,426	\$ 78,322,503	\$ 79,671,963	\$ 80,967,583	\$ 82,200,605

Notes:

Development projections are subject to change as timing depends on developers

Projections include 2% annual inflation

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

Table F2: Projected Financial Position (2010 - 2034)

Description	2031	2032	2033	2034
Financial Assets				
Cash	\$ 1,457,873	\$ 1,230,260	\$ 1,184,178	\$ 1,123,766
Cash Equivalents	\$ -	\$ -	\$ -	\$ -
Accounts Receivable	\$ -	\$ -	\$ -	\$ -
Total Financial Assets	\$ 1,457,873	\$ 1,230,260	\$ 1,184,178	\$ 1,123,766
Liabilities				
Accounts Payable	\$ -	\$ -	\$ -	\$ -
Capital Reserve Fund Contributions	\$ 968,651	\$ 978,338	\$ 988,121	\$ 998,003
Rate Stabilization Reserve Fund Contributions	\$ 64,318	\$ 69,540	\$ 75,187	\$ 81,292
Long Term Debt	\$ -	\$ -	\$ -	\$ -
Internal Loan from Town	\$ -	\$ -	\$ -	\$ -
Total Financial Liabilities	\$ 1,032,969	\$ 1,047,878	\$ 1,063,308	\$ 1,079,295
Net Debt (Net Financial Assets)	\$ (424,904)	\$ (182,382)	\$ (120,870)	\$ (44,472)
Non Financial Assets				
Tangible Capital Assets (Start of Year)	\$ 81,611,382	\$ 83,086,022	\$ 84,563,452	\$ 86,043,725
Assets Added				
Pipe Replacement	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000	\$ 1,341,000
New Infrastructure (Development)				
Materials Inventory	\$ 139,441	\$ 142,230	\$ 145,075	\$ 147,976
Prepaid Expenses	\$ -	\$ -	\$ -	\$ -
Less Assets Removed				
Disposal of Assets (Old Pipe)	\$ 5,801	\$ 5,801	\$ 5,801	\$ 5,801
Total Tangible Capital Assets (End of Year)	\$ 83,086,022	\$ 84,563,452	\$ 86,043,725	\$ 87,526,900
Financial Position - Net Asset Value	\$ 83,510,927	\$ 84,745,834	\$ 86,164,595	\$ 87,571,372

Notes:

Development projections are subject to change as timing depends on developers

Projections include 2% annual inflation

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

Table F3: Projected Gross Cash Receipts and Payments (2010 - 2034)

Description	2010	2011	2012	2013	2014	2015
Cash (at Start of Year)	\$ 115,154	\$ 1,177,046	\$ 2,510,311	\$ 2,549,732	\$ 3,421,476	\$ 3,470,174
Gross Cash Receipts During Year						
Proceeds (fixed & variable rates) from Water Rates	\$ 3,732,444	\$ 4,379,927	\$ 4,826,036	\$ 5,254,354	\$ 5,846,716	\$ 6,366,780
Other Revenues (from daily operations)	\$ 212,800	\$ 217,056	\$ 221,397	\$ 225,825	\$ 230,342	\$ 234,948
Proceeds from Sale of Tangible Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Disposal of Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Debentures/Loans	\$ 380,500	\$ 804,445	\$ -	\$ 1,157,000	\$ -	\$ -
<i>Subtotal Cash Receipts</i>	\$ 4,325,744	\$ 5,401,428	\$ 5,047,434	\$ 6,637,179	\$ 6,077,057	\$ 6,601,728
Gross Cash Payments During Year						
Gross Distribution System O&M Expenses	\$ 1,266,300	\$ 1,330,375	\$ 1,397,692	\$ 1,468,415	\$ 1,542,717	\$ 1,620,778
Payments (fixed & variable rates) to Niagara Region	\$ 1,952,972	\$ 2,198,301	\$ 2,455,144	\$ 2,704,586	\$ 2,979,372	\$ 3,282,077
Capital Expenditures	\$ 33,800	\$ 412,080	\$ 900,362	\$ 1,227,818	\$ 1,024,251	\$ 1,431,291
Purchase of Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Expenses (including interest)	\$ 10,780	\$ 127,407	\$ 254,815	\$ 294,615	\$ 412,019	\$ 565,516
Internal Debt Repayment (including Interest)	\$ -	\$ -	\$ -	\$ 70,000	\$ 70,000	\$ 70,000
<i>Subtotal Cash Payments</i>	\$ 3,263,852	\$ 4,068,163	\$ 5,008,013	\$ 5,765,434	\$ 6,028,360	\$ 6,969,662
Cash (at End of Year)	\$ 1,177,046	\$ 2,510,311	\$ 2,549,732	\$ 3,421,476	\$ 3,470,174	\$ 3,102,240

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements
Table F3: Projected Gross Cash Receipts and Payments (2010 - 2034)

Description	2016	2017	2018	2019	2020	2021	2022
Cash (at Start of Year)	\$ 3,102,240	\$ 2,834,833	\$ 2,782,840	\$ 2,761,339	\$ 2,855,621	\$ 2,656,170	\$ 2,353,977
Gross Cash Receipts During Year							
Proceeds (fixed & variable rates) from Water Rates	\$ 6,867,903	\$ 7,344,825	\$ 7,789,227	\$ 8,384,324	\$ 8,844,133	\$ 9,300,105	\$ 9,762,804
Other Revenues (from daily operations)	\$ 239,647	\$ 244,440	\$ 249,329	\$ 254,316	\$ 259,402	\$ 264,590	\$ 269,882
Proceeds from Sale of Tangible Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Disposal of Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Debentures/Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Subtotal Cash Receipts</i>	\$ 7,107,550	\$ 7,589,265	\$ 8,038,556	\$ 8,638,639	\$ 9,103,535	\$ 9,564,695	\$ 10,032,686
Gross Cash Payments During Year							
Gross Distribution System O&M Expenses	\$ 1,702,790	\$ 1,788,951	\$ 1,879,472	\$ 1,974,573	\$ 2,074,486	\$ 2,179,455	\$ 2,289,736
Payments (fixed & variable rates) to Niagara Region	\$ 3,548,581	\$ 3,826,532	\$ 4,137,246	\$ 4,473,190	\$ 4,836,414	\$ 5,229,130	\$ 5,640,750
Capital Expenditures	\$ 1,488,071	\$ 1,390,260	\$ 1,407,825	\$ 1,461,078	\$ 1,756,571	\$ 1,822,787	\$ 1,700,712
Purchase of Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Expenses (including interest)	\$ 565,516	\$ 565,516	\$ 565,516	\$ 565,516	\$ 565,516	\$ 565,516	\$ 310,701
Internal Debt Repayment (including Interest)	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000
<i>Subtotal Cash Payments</i>	\$ 7,374,958	\$ 7,641,258	\$ 8,060,058	\$ 8,544,357	\$ 9,302,986	\$ 9,866,888	\$ 10,011,899
Cash (at End of Year)	\$ 2,834,833	\$ 2,782,840	\$ 2,761,339	\$ 2,855,621	\$ 2,656,170	\$ 2,353,977	\$ 2,374,764

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements
Table F3: Projected Gross Cash Receipts and Payments (2010 - 2034)

Description	2023	2024	2025	2026	2027	2028	2029
Cash (at Start of Year)	\$ 2,374,764	\$ 2,325,439	\$ 2,344,963	\$ 2,288,065	\$ 2,094,951	\$ 1,992,763	\$ 1,832,692
Gross Cash Receipts During Year							
Proceeds (fixed & variable rates) from Water Rates	\$ 10,270,776	\$ 10,809,365	\$ 11,380,732	\$ 12,025,159	\$ 12,723,236	\$ 13,520,416	\$ 14,402,726
Other Revenues (from daily operations)	\$ 275,279	\$ 280,785	\$ 286,401	\$ 292,129	\$ 297,971	\$ 303,931	\$ 310,009
Proceeds from Sale of Tangible Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Disposal of Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Debentures/Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Subtotal Cash Receipts</i>	\$ 10,546,055	\$ 11,090,150	\$ 11,667,133	\$ 12,317,288	\$ 13,021,207	\$ 13,824,347	\$ 14,712,736
Gross Cash Payments During Year							
Gross Distribution System O&M Expenses	\$ 2,405,596	\$ 2,527,320	\$ 2,655,202	\$ 2,789,555	\$ 2,930,707	\$ 3,079,000	\$ 3,234,798
Payments (fixed & variable rates) to Niagara Region	\$ 6,098,779	\$ 6,594,000	\$ 7,129,433	\$ 7,708,343	\$ 8,314,965	\$ 8,990,140	\$ 9,720,139
Capital Expenditures	\$ 1,820,105	\$ 1,795,811	\$ 1,939,396	\$ 2,012,504	\$ 1,877,724	\$ 1,915,278	\$ 1,982,720
Purchase of Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Expenses (including interest)	\$ 270,900	\$ 153,497	\$ -	\$ -	\$ -	\$ -	\$ -
Internal Debt Repayment (including Interest)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Subtotal Cash Payments</i>	\$ 10,595,380	\$ 11,070,627	\$ 11,724,031	\$ 12,510,402	\$ 13,123,395	\$ 13,984,418	\$ 14,937,657
Cash (at End of Year)	\$ 2,325,439	\$ 2,344,963	\$ 2,288,065	\$ 2,094,951	\$ 1,992,763	\$ 1,832,692	\$ 1,607,771

Appendix F: Information Required to Meet Ontario Regulation 453/07 Requirements

Table F3: Projected Gross Cash Receipts and Payments (2010 - 2034)

Description	2030	2031	2032	2033	2034
Cash (at Start of Year)	\$ 1,607,771	\$ 1,457,873	\$ 1,230,260	\$ 1,184,178	\$ 1,123,766
Gross Cash Receipts During Year					
Proceeds (fixed & variable rates) from Water Rates	\$ 15,583,036	\$ 16,605,040	\$ 17,734,635	\$ 18,942,571	\$ 20,234,458
Other Revenues (from daily operations)	\$ 316,210	\$ 322,534	\$ 328,984	\$ 335,564	\$ 342,275
Proceeds from Sale of Tangible Assets	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Disposal of Investments	\$ -	\$ -	\$ -	\$ -	\$ -
Proceeds from Debentures/Loans	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Subtotal Cash Receipts</i>	\$ 15,899,246	\$ 16,927,574	\$ 18,063,619	\$ 19,278,136	\$ 20,576,734
Gross Cash Payments During Year					
Gross Distribution System O&M Expenses	\$ 3,398,479	\$ 3,570,442	\$ 3,751,106	\$ 3,940,912	\$ 4,140,322
Payments (fixed & variable rates) to Niagara Region	\$ 10,509,414	\$ 11,362,779	\$ 12,285,437	\$ 13,283,014	\$ 14,361,595
Capital Expenditures	\$ 2,141,250	\$ 2,221,967	\$ 2,073,159	\$ 2,114,622	\$ 2,518,813
Purchase of Investments	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Expenses (including interest)	\$ -	\$ -	\$ -	\$ -	\$ -
Internal Debt Repayment (including Interest)	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Subtotal Cash Payments</i>	\$ 16,049,143	\$ 17,155,187	\$ 18,109,701	\$ 19,338,548	\$ 21,020,729
Cash (at End of Year)	\$ 1,457,873	\$ 1,230,260	\$ 1,184,178	\$ 1,123,766	\$ 679,770

APPENDIX G

OPTION 1: FIXED MONTHLY CHARGE PER UNIT PLUS UNIFORM RATE PROJECTIONS

Option 1 - Water System - Rates & Reserve Calculation for the Period 2010 to 2034

Table G1: Calculation of Annual Water Costs with Inflation (in \$1,000's)

	Inflation Rate	2.00%																									
	Real Interest Rate	0.00%																									
	Nominal Interest Rate	0.00%																									
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034		
Inflation Index	1.000	1.000	1.020	1.040	1.061	1.082	1.104	1.126	1.149	1.172	1.195	1.219	1.243	1.268	1.294	1.319	1.346	1.373	1.400	1.428	1.457	1.486	1.516	1.546	1.577	1.608	
Projected Annual Regional Fixed Charge (25%) (without Growth)	\$463.234	\$488.737	\$544.011	\$599.283	\$660.170	\$727.243	\$801.131	\$866.183	\$936.517	\$1,012.562	\$1,094.782	\$1,183.679	\$1,279.793	\$1,383.712	\$1,496.070	\$1,617.551	\$1,748.896	\$1,890.906	\$2,044.448	\$2,210.457	\$2,389.946	\$2,584.010	\$2,793.831	\$3,020.691	\$3,265.971	\$3,531.167	
Projected Annual Regional Variable Charge (75%) (without Growth)		\$1,464.235	\$1,632.856	\$1,798.754	\$1,981.507	\$2,182.829	\$2,404.604	\$2,599.858	\$2,810.966	\$3,039.217	\$3,286.001	\$3,552.824	\$3,841.314	\$4,153.228	\$4,490.471	\$4,855.097	\$5,249.331	\$5,675.576	\$6,136.433	\$6,634.712	\$7,173.450	\$7,755.934	\$8,385.716	\$9,066.636	\$9,802.847	\$10,598.838	
Projected Annual Regional Fixed Charge Increase Due to Growth (\$)		\$0.000	\$5.333	\$14.297	\$15.749	\$17.349	\$19.112	\$20.664	\$21.424	\$23.163	\$25.044	\$27.078	\$29.276	\$30.297	\$32.757	\$35.417	\$38.293	\$41.402	\$44.423	\$44.787	\$48.424	\$52.356	\$56.607	\$61.204	\$66.173	\$71.547	
Projected Annual Regional Variable Charge Increase Due to Growth (\$)		\$0.000	\$16.100	\$42.810	\$47.160	\$51.951	\$57.230	\$61.877	\$67.625	\$74.304	\$81.363	\$87.833	\$94.747	\$102.152	\$110.048	\$118.471	\$127.466	\$137.066	\$147.306	\$148.000	\$158.119	\$168.754	\$179.946	\$191.724	\$204.129	\$217.204	
Cost Stabilization Allowance for Demand Variations and Emergency Fund		\$0.000	\$219.830	\$21.288	\$20.034	\$22.069	\$24.312	\$20.086	\$20.698	\$23.418	\$25.320	\$27.376	\$29.599	\$30.704	\$34.521	\$37.325	\$40.355	\$43.632	\$45.246	\$50.888	\$55.020	\$59.487	\$64.318	\$69.540	\$75.187	\$81.292	
Annual Contribution to Capital Reserve		\$785.993	\$809.730	\$801.791	\$809.809	\$817.907	\$826.087	\$834.347	\$842.691	\$851.118	\$859.629	\$868.225	\$876.908	\$885.677	\$894.533	\$903.479	\$912.513	\$921.639	\$930.855	\$940.164	\$949.565	\$959.061	\$968.651	\$978.338	\$988.121	\$998.003	
Annual Distribution O&M Cost (in 2010 \$)		\$1,053.500	\$1,106.807	\$1,162.812	\$1,221.650	\$1,283.465	\$1,348.409	\$1,416.638	\$1,488.320	\$1,563.629	\$1,642.749	\$1,725.872	\$1,813.201	\$1,904.949	\$2,001.339	\$2,102.607	\$2,208.999	\$2,320.774	\$2,438.205	\$2,561.579	\$2,691.194	\$2,827.369	\$2,970.434	\$3,120.738	\$3,278.647	\$3,444.547	
Capital Costs with inflation		\$33.800	\$412.080	\$900.362	\$1,227.818	\$1,024.251	\$1,431.291	\$1,488.071	\$1,390.260	\$1,407.825	\$1,461.078	\$1,756.571	\$1,822.787	\$1,700.712	\$1,820.105	\$1,795.811	\$1,939.396	\$2,012.504	\$1,877.724	\$1,915.278	\$1,982.720	\$2,141.250	\$2,221.967	\$2,073.159	\$2,114.622	\$2,518.813	
Internal Loan from Town (Interest at 0%)		\$0.000	\$0.000	\$0.000	\$70.000	\$70.000	\$70.000	\$70.000	\$70.000	\$70.000	\$70.000	\$70.000	\$70.000	\$70.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	
Debt Charges (including Interest)		\$10.780	\$127.407	\$254.815	\$294.615	\$412.019	\$565.516	\$565.516	\$565.516	\$565.516	\$565.516	\$565.516	\$565.516	\$310.701	\$270.900	\$153.497	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Total Net Annual Costs (in 2010 \$)		\$3,837.045	\$4,874.156	\$5,596.212	\$6,348.513	\$6,609.085	\$7,547.691	\$7,943.240	\$8,204.016	\$8,618.751	\$9,097.482	\$9,849.973	\$10,407.140	\$10,543.492	\$11,120.178	\$11,586.712	\$12,230.696	\$13,006.891	\$13,606.994	\$14,458.048	\$15,398.638	\$16,496.582	\$17,888.149	\$18,527.211	\$19,739.591	\$21,404.249	
Annual Net Cost Per Cubic Metre (in 2010 \$)																											

Table G2: No. of Users or Accounts Projected for the Period 2010 to 2034

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
No. of Users or Accounts (without Growth)	6,085	6,085	6,145	6,291	6,437	6,583	6,729	6,875	7,015	7,155	7,295	7,435	7,575	7,709	7,843	7,977	8,111	8,245	8,369	8,493	8,617	8,741	8,865	8,989	9,113
Projected Increase in No. of Users or Accounts (Growth)	0	60	146	146	146	146	146	140	140	140	140	140	134	134	134	134	134	124	124	124	124	124	124	124	124
Total Projected Annual Users or Accounts with Growth	6,085	6,145	6,291	6,437	6,583	6,729	6,875	7,015	7,155	7,295	7,435	7,575	7,709	7,843	7,977	8,111	8,245	8,369	8,493	8,617	8,741	8,865	8,989	9,113	9,237

Table G3: Total Annual Volumes Used to Calculate Revenue by the Town (1000m³)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Volume Purchased minus Volume for Revenue Calculation, as %	16.84%	16.84%	16.84%	16.84%	14.0%	14.0%	14.0%	14.0%	14.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Total Annual Volume Purchased from Region	2,770.577	2,797.895	2,836.516	2,836.516	2,836.516	2,836.516	2,836.516	2,827.373	2,827.373	2,827.373	2,827.373	2,827.373	2,819.616	2,819.616	2,819.616	2,819.616	2,819.616	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412	2,812.412
Total Annual Volume used to Calculate Town Revenue	2,304.011	2,326.730	2,358.847	2,358.847	2,439.404	2,439.404	2,439.404	2,431.541	2,431.541	2,488.089	2,488.089	2,488.089	2,481.262	2,481.262	2,481.262	2,481.262	2,474.923	2,474.923	2,474.923	2,474.923	2,531.171	2,531.171	2,531.171	2,531.171	2,531.171

Table G4: Projected Annual Water Rates - Fixed Rate

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Annual Percent Increase to Town's Portion of the Rate	0	4.7%	8.0%	8.0%	9.0%	8.0%	8.0%	8.0%	8.0%	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	3.0%	3.0%	4.0%	5.0%	5.0%	5.0%	5.0%
Region's Portion of the Fixed Charge/Year/Account	\$76.13	\$80.32	\$86.79	\$91.56	\$96.64	\$102.06	\$107.83	\$111.88	\$116.22	\$120.78	\$125.57	\$130.60	\$135.88	\$141.53	\$147.46	\$153.68	\$160.21	\$167.06	\$174.46	\$182.23	\$190.38	\$198.94	\$207.93	\$217.37	\$227.27	\$237.67
The Town's Portion of the Fixed Charge/Year/Account	\$136.20	\$142.28	\$153.662	\$165.955	\$180.891	\$195.363	\$210.992	\$227.871	\$246.101	\$253.484	\$261.088	\$268.921	\$274.299	\$279.785	\$285.381	\$291.089	\$296.910	\$302.849	\$308.906	\$318.173	\$327.718	\$340.827	\$354.460	\$372.183	\$390.792	\$410.331
Total Annual Fixed Rate	\$212.33	\$222.60	\$240.46	\$257.52	\$277.53	\$297.42	\$318.82	\$339.75	\$362.32	\$374.27	\$386.66	\$399.52	\$410.18	\$421.31	\$432.84	\$444.77	\$457.12	\$469.91	\$483.37	\$500.40	\$518.10	\$539.77	\$562.39	\$589.55	\$618.06	\$648.01
Percentage Change to Annual Fixed Rate		7.10%	8.02%	7.10%	7.77%	7.17%	7.20%	6.56%	6.64%	3.30%	3.31%	3.33%	2.67%	2.71%	2.74%	2.76%	2.78%	2.80%	2.86%	3.52%	3.54%	4.18%	4.19%	4.83%	4.84%	

Table G5: Projected Annual Water Rates - Variable or Uniform Rate

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
Annual Increase to Town's Portion of the Rate	0.0908	0.07	0.07	0.08	0.08	0.08	0.09	0.06	0.06	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.05	0.05	0.05	0.05	
Uniform Rate: Regional Portion	\$0.4720	\$0.5350	\$0.5894	\$0.6492	\$0.7152	\$0.7879	\$0.8679	\$0.9384	\$1.0146	\$1.0970	\$1.1860	\$1.2823	\$1.3865	\$1.4990	\$1.6208	\$1.7524	\$1.8947	\$2.0485	\$2.2146	\$2.3947	\$2.5892	\$2.7994	\$3.0267	\$3.2725	\$3.5382	\$3.8255
Uniform Rate: Town Portion	\$0.5630	\$0.5940	\$0.6356	\$0.6800	\$0.7344	\$0.7932	\$0.8567	\$0.9338	\$0.9898	\$1.0492	\$1.1086	\$1.1131	\$1.1465	\$1.1694	\$1.1928	\$1.2166	\$1.2410	\$1.2658	\$1.2911	\$1.3427	\$1.3965	\$1.4523	\$1.5249	\$1.6012	\$1.6812	\$1.7653
Total Annual Uniform Rate	\$1.0350	\$1.1290	\$1.2249	\$1.3292	\$1.4496	\$1.5811	\$1.7246	\$1.8721	\$2.0044	\$2.1461	\$2.2667	\$2.3954	\$2.5329	\$2.6684	\$2.8135	\$2.9690	\$3.1356	\$3.3143	\$3.5060	\$3.7374	\$3.9856	\$4.2517	\$4.5516	\$4.8736	\$5.2194	\$5.5908
Projected Annual % Increase in Total Uniform Rate		8%	8%	9%	9%	9%	9%	7%	7%	6%	6%	6%	5%	5%	6%	6%	6%	6%	7%	7%	7%	7%	7%	7%	7%	

Table G6: Projected Reserve Fund Balances Based on Cash Inflow/Outflow with Inflation Rate (Using 2010 Information) (in \$1,000's)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
YEAR	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034

APPENDIX H

OPTION 2: FIXED MONTHLY CHARGE BASED ON METER SIZE PLUS UNIFORM RATE PROJECTIONS

Option 2 - Water System - Rates & Reserve Calculation for the Period 2010 to 2034

Table H1: Calculation of Annual Water Costs with Inflation (in \$1,000's)

Inflation Rate	2.00%																								
Real Interest Rate	0.00%																								
Nominal Interest Rate	0.00%																								
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Inflation Index	1.000	1.020	1.040	1.061	1.082	1.104	1.126	1.149	1.172	1.195	1.219	1.243	1.268	1.294	1.321	1.346	1.373	1.400	1.428	1.457	1.486	1.516	1.546	1.577	1.608
Projected Annual Regional Fixed Charge (25%) (without Growth)	\$488,737	\$544,011	\$599,283	\$660,170	\$727,243	\$801,131	\$886,183	\$976,517	\$1,072,662	\$1,179,972	\$1,298,782	\$1,429,472	\$1,573,517	\$1,731,482	\$1,904,907	\$2,094,472	\$2,300,807	\$2,524,517	\$2,766,207	\$3,026,517	\$3,306,207	\$3,606,007	\$3,926,607	\$4,268,807	\$4,633,307
Projected Annual Regional Variable Charge (75%) (without Growth)	\$1,464,235	\$1,632,856	\$1,798,754	\$1,981,507	\$2,182,829	\$2,404,604	\$2,650,858	\$2,933,426	\$3,254,217	\$3,613,007	\$4,010,297	\$4,447,782	\$4,926,172	\$5,447,172	\$6,012,407	\$6,623,517	\$7,281,207	\$7,986,207	\$8,739,207	\$9,541,207	\$10,393,207	\$11,296,207	\$12,250,207	\$13,256,207	\$14,314,207
Projected Annual Regional Fixed Charge Increase Due to Growth (S)	\$0.000	\$5,333	\$14,297	\$31,749	\$57,349	\$109,112	\$202,664	\$382,426	\$667,007	\$1,179,972	\$2,129,472	\$3,926,172	\$6,812,407	\$12,731,482	\$23,731,482	\$44,300,807	\$81,447,207	\$151,447,207	\$280,447,207	\$514,447,207	\$954,447,207	\$1,754,447,207	\$3,254,447,207	\$6,054,447,207	\$11,454,447,207
Projected Annual Regional Variable Charge Increase Due to Growth (S)	\$0.000	\$16,100	\$42,810	\$87,140	\$151,951	\$277,230	\$511,877	\$952,624	\$1,749,472	\$3,254,217	\$6,010,297	\$11,247,782	\$21,247,172	\$40,447,172	\$76,447,172	\$142,447,172	\$266,447,172	\$500,447,172	\$934,447,172	\$1,754,447,172	\$3,254,447,172	\$6,054,447,172	\$11,454,447,172	\$21,454,447,172	\$40,454,447,172
Rate Stabilization Allowance for Demand Variations and Emergency Fund	\$0.000	\$219,830	\$211,288	\$203,034	\$222,069	\$234,312	\$230,086	\$220,698	\$223,418	\$225,230	\$227,326	\$229,599	\$230,704	\$234,521	\$237,325	\$240,355	\$243,624	\$247,144	\$250,918	\$254,944	\$259,220	\$263,756	\$268,552	\$273,608	\$278,932
Annual Contribution to Capital Reserve	\$785,907	\$793,853	\$801,791	\$809,809	\$817,907	\$826,087	\$834,347	\$842,691	\$851,118	\$859,629	\$868,225	\$876,907	\$885,677	\$894,533	\$903,479	\$912,513	\$921,639	\$930,858	\$940,164	\$949,565	\$959,057	\$968,641	\$978,318	\$988,121	\$998,003
Annual Distribution O&M Cost	\$1,055,500	\$1,106,807	\$1,162,812	\$1,221,650	\$1,283,465	\$1,348,409	\$1,416,638	\$1,488,320	\$1,563,629	\$1,642,749	\$1,725,872	\$1,813,201	\$1,904,949	\$2,001,339	\$2,102,667	\$2,208,399	\$2,318,099	\$2,432,324	\$2,550,544	\$2,673,324	\$2,800,224	\$2,936,824	\$3,083,724	\$3,241,524	\$3,410,024
Capital Costs with Inflation	\$33,800	\$412,080	\$900,362	\$1,227,818	\$1,624,251	\$1,431,291	\$1,488,071	\$1,590,260	\$1,747,825	\$1,961,078	\$1,756,511	\$1,822,787	\$1,700,712	\$1,820,105	\$1,939,396	\$2,012,504	\$1,915,278	\$1,982,720	\$2,141,250	\$2,411,250	\$2,721,967	\$3,073,159	\$3,464,622	\$3,898,000	\$4,374,813
Internal Loan from Town (Interest at 0%)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Debt Charges (including Interest)	\$10,780	\$127,407	\$254,815	\$294,615	\$412,019	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516
Total Net Annual Costs (in 2010 \$)	\$3,837,045	\$4,858,279	\$5,996,212	\$6,348,513	\$6,609,085	\$7,547,691	\$7,943,240	\$8,204,016	\$8,618,751	\$9,097,482	\$9,640,973	\$10,407,140	\$10,543,492	\$11,120,178	\$11,586,717	\$12,230,696	\$13,006,891	\$13,606,994	\$14,458,048	\$15,398,638	\$16,496,582	\$17,588,149	\$18,527,211	\$19,739,591	\$21,404,249

Table H2: Number of Accounts by Meter Size

Meter Size	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
1/2" (15mm) x 3/4" (18mm)		5,964	5,998	6,144	6,289	6,435	6,580	6,725	6,865	7,004	7,143	7,283	7,422	7,566	7,689	7,822	7,956	8,089	8,212	8,336	8,459	8,582	8,706	8,829	8,952	9,076
3/4" (18mm)		20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1" (25mm)		26	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1-1/2" (37mm)		24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2" (50mm)		40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	
3" (75mm)		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
4" (100mm)		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6" (150mm)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8" (200mm)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10" (250mm)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total		6,085	6,120	6,266	6,412	6,558	6,704	6,850	6,996	7,130	7,270	7,410	7,550	7,684	7,818	7,952	8,086	8,220	8,344	8,468	8,592	8,716	8,840	8,964	9,088	

Table H3: Monthly Fixed Charge by Meter Size

Meter Size	A.W.W.A. Meter Equivalency Factor	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Annual Increase in Monthly Fixed Charge			8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	
1/2" (15mm) x 3/4" (18mm)	1	\$18.55	\$20.03	\$21.64	\$23.37	\$25.24	\$27.26	\$29.46	\$30.91	\$31.94	\$32.80	\$33.78	\$34.46	\$35.15	\$35.85	\$36.56	\$37.30	\$38.07	\$38.87	\$39.69	\$40.55	\$41.44	\$42.37	\$43.34	\$44.34	\$45.37
3/4" (18mm)	1	\$18.55	\$20.03	\$21.64	\$23.37	\$25.24	\$27.26	\$29.46	\$30.91	\$31.94	\$32.80	\$33.78	\$34.46	\$35.15	\$35.85	\$36.56	\$37.30	\$38.07	\$38.87	\$39.69	\$40.55	\$41.44	\$42.37	\$43.34	\$44.34	\$45.37
1" (25mm)	1.4	\$25.97	\$28.05	\$30.29	\$32.71	\$35.33	\$38.16	\$40.83	\$43.28	\$44.58	\$45.92	\$47.29	\$48.26	\$49.15	\$49.97	\$50.71	\$51.39	\$52.01	\$52.58	\$53.10	\$53.57	\$54.00	\$54.38	\$54.71	\$55.00	\$55.27
1-1/2" (37mm)	1.8	\$33.39	\$36.06	\$38.95	\$42.06	\$45.43	\$49.06	\$52.90	\$56.54	\$57.31	\$58.03	\$58.80	\$59.26	\$59.62	\$59.89	\$60.13	\$60.36	\$60.53	\$60.66	\$60.75	\$60.81	\$60.84	\$60.85	\$60.85	\$60.84	\$60.82
2" (50mm)	2.9	\$53.80	\$58.10	\$62.75	\$67.77	\$73.19	\$79.04	\$84.58	\$89.65	\$92.34	\$93.91	\$95.11	\$95.92	\$96.36	\$96.64	\$96.81	\$96.89	\$96.91	\$96.89	\$96.84	\$96.75	\$96.62	\$96.45	\$96.15	\$95.72	\$95.17
3" (75mm)	11	\$204.05	\$220.37	\$238.00	\$257.04	\$277.61	\$299.82	\$323.80	\$349.57	\$377.02	\$396.60	\$418.27	\$442.01	\$467.81	\$495.74	\$525.81	\$558.04	\$592.42	\$629.04	\$668.00	\$709.31	\$753.00	\$799.17	\$847.81	\$898.93	\$952.54
4" (100mm)	14	\$259.70	\$280.48	\$302.91	\$327.15	\$353.32	\$381.58	\$408.30	\$432.79	\$445.78	\$459.15	\$472.92	\$487.13	\$499.80	\$511.91	\$522.45	\$531.51	\$539.08	\$545.16	\$549.84	\$553.12	\$555.10	\$555.88	\$556.36	\$556.54	\$556.41
6" (150mm)	21	\$389.55	\$420.71	\$454.37	\$490.72	\$529.98	\$572.38	\$612.44	\$649.19	\$688.73	\$709.29	\$727.57	\$743.65	\$757.62	\$769.57	\$779.41	\$787.12	\$792.69	\$796.12	\$797.44	\$797.65	\$797.66	\$797.56	\$797.34	\$797.01	\$796.57
8" (200mm)	29	\$537.95	\$580.99	\$627.46	\$677.66	\$731.88	\$790.43	\$845.75	\$899.40	\$929.40	\$951.10	\$970.63	\$990.25	\$1,009.99	\$1,029.87	\$1,049.89	\$1,069.99	\$1,089.99	\$1,109.99	\$1,129.99	\$1,149.99	\$1,169.99	\$1,189.99	\$1,209.99	\$1,229.99	\$1,249.99
10" (250mm)	40	\$742.00	\$801.36	\$865.47	\$934.71	\$1,009.48	\$1,090.24	\$1,166.56	\$1,236.55	\$1,311.86	\$1,392.61	\$1,478.24	\$1,568.34	\$1,663.42	\$1,763.00	\$1,867.60	\$1,977.60	\$2,092.60	\$2,213.60	\$2,340.60	\$2,478.60	\$2,627.60	\$2,788.60	\$2,961.60	\$3,147.60	
Total		\$1,529,877.90	\$1,690,455.66	\$1,866,936.14	\$2,060,836.23	\$2,273,813.72	\$2,484,466.93	\$2,685,873.90	\$2,820,367.91	\$2,960,516.45	\$3,106,537.84	\$3,227,020.93	\$3,348,452.66	\$3,473,657.29	\$3,602,429.19	\$3,734,965.05	\$3,890,318.56	\$4,060,618.56	\$4,246,068.56	\$4,447,868.56	\$4,666,218.56	\$4,901,318.56	\$5,153,368.56	\$5,423,568.56	\$5,712,018.56	\$6,019,018.56

Table H4: Annual Revenue Generated Based on

APPENDIX I

OPTION 2: FIXED MONTHLY CHARGE BASED ON METER SIZE PLUS UNIFORM RATE PROJECTIONS SHOWING SEPARATE CAPITAL RESERVE FUND

Option 2 - Water System - Rates & Reserve Calculation for the Period 2010 to 2034 Showing Capital Reserve Fund

Table 11: Calculation of Annual Water Costs with Inflation (in \$1,000's)

Inflation Rate	2.00%																									
Real Interest Rate	0.00%																									
Nominal Interest Rate	0.00%																									
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
Inflation Index	1.000	1.020	1.040	1.061	1.082	1.104	1.126	1.149	1.172	1.195	1.219	1.243	1.268	1.294	1.319	1.346	1.373	1.400	1.428	1.457	1.486	1.516	1.546	1.577	1.608	
Projected Annual Regional Fixed Charge (25%) (Without Growth)	\$488,737	\$544,011	\$599,283	\$660,170	\$727,243	\$801,131	\$886,183	\$936,517	\$1,012,562	\$1,094,782	\$1,183,679	\$1,279,793	\$1,383,712	\$1,496,071	\$1,617,551	\$1,748,896	\$1,890,906	\$2,044,448	\$2,210,457	\$2,389,946	\$2,584,010	\$2,793,831	\$3,020,146	\$3,265,971	\$3,531,167	
Projected Annual Regional Variable Charge (75%) (without Growth)	\$1,464,235	\$1,632,856	\$1,798,754	\$1,981,507	\$2,182,829	\$2,404,604	\$2,599,858	\$2,810,966	\$3,039,217	\$3,286,001	\$3,552,824	\$3,841,314	\$4,153,228	\$4,490,471	\$4,855,097	\$5,249,331	\$5,675,576	\$6,136,433	\$6,634,712	\$7,173,450	\$7,755,934	\$8,385,716	\$9,066,636	\$9,802,847	\$10,598,838	
Projected Annual Regional Fixed Charge Increase Due to Growth (\$)	\$0.000	\$5,333	\$14,297	\$15,749	\$17,349	\$19,112	\$20,664	\$21,424	\$23,163	\$25,044	\$27,078	\$29,276	\$30,297	\$32,757	\$35,417	\$38,293	\$41,402	\$44,423	\$44,787	\$48,424	\$52,356	\$56,607	\$61,204	\$66,173	\$71,547	
Projected Annual Regional Variable Charge Increase Due to Growth (\$)	\$0.000	\$16,100	\$42,810	\$47,160	\$51,951	\$57,230	\$61,877	\$57,625	\$62,304	\$67,363	\$72,833	\$78,747	\$73,512	\$79,481	\$85,935	\$92,913	\$100,458	\$92,660	\$100,184	\$108,319	\$117,115	\$126,624	\$136,906	\$148,023	\$160,042	
Rate Stabilization Allowance for Demand Variations and Emergency Fund	\$0.000	\$219,830	\$21,288	\$20,034	\$22,069	\$24,312	\$20,086	\$20,698	\$23,418	\$25,320	\$27,376	\$29,599	\$30,704	\$34,521	\$37,325	\$40,355	\$43,632	\$45,246	\$50,888	\$55,020	\$59,487	\$64,318	\$69,540	\$75,187	\$81,292	
Annual Contribution to Capital Reserve	\$785,993	\$793,853	\$801,791	\$809,809	\$817,907	\$826,087	\$834,347	\$842,691	\$851,118	\$859,629	\$868,225	\$876,908	\$885,677	\$894,533	\$903,479	\$912,513	\$921,639	\$930,855	\$940,164	\$949,565	\$959,061	\$968,651	\$978,338	\$988,121	\$998,003	
Annual Distribution O&M Cost	\$1,053,500	\$1,106,807	\$1,162,812	\$1,221,650	\$1,283,465	\$1,348,409	\$1,416,638	\$1,488,320	\$1,563,629	\$1,642,749	\$1,725,872	\$1,813,201	\$1,904,949	\$2,001,339	\$2,102,607	\$2,208,999	\$2,320,774	\$2,438,205	\$2,561,579	\$2,691,194	\$2,827,369	\$2,970,434	\$3,120,738	\$3,278,647	\$3,444,547	
Capital Costs with Inflation	\$33,800	\$412,080	\$900,362	\$1,227,818	\$1,024,251	\$1,431,291	\$1,488,071	\$1,390,260	\$1,407,825	\$1,461,078	\$1,756,571	\$1,822,787	\$1,700,712	\$1,820,105	\$1,795,811	\$1,939,396	\$2,012,504	\$1,877,724	\$1,915,278	\$1,982,720	\$2,141,250	\$2,221,967	\$2,073,159	\$2,114,622	\$2,518,813	
Internal Loan from Town (Interest at 0%)	\$0.000	\$0.000	\$0.000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	
Debt Charges (including Interest)	\$10,780	\$127,407	\$254,815	\$294,615	\$412,019	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$310,701	\$270,900	\$153,497	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	
Total Net Annual Costs (in 2010 \$)	-	\$3,837,045	\$4,858,279	\$5,596,212	\$6,348,513	\$6,609,085	\$7,547,691	\$7,943,240	\$8,204,016	\$8,618,751	\$9,097,482	\$9,849,973	\$10,407,140	\$10,543,492	\$11,120,178	\$11,586,717	\$12,230,696	\$13,006,891	\$13,606,994	\$14,458,048	\$15,398,638	\$16,496,582	\$17,588,149	\$18,527,211	\$19,739,591	\$21,404,249

Table 12: Number of Accounts by Meter Size

Meter Size	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
5/8" (15mm) x 3/4" (18mm)		5,964	5,998	6,144	6,289	6,435	6,580	6,725	6,865	7,004	7,143	7,283	7,422	7,556	7,689	7,822	7,956	8,089	8,212	8,336	8,459	8,582	8,706	8,829	8,952	9,076
3/4" (18mm)		20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	23
1" (25mm)		26	26	26	26	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	29	29	29	29	29	29
1-1/2" (37mm)		24	24	24	24	24	25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	27	27	27	27	
2" (50mm)		40	40	40	41	41	41	41	42	42	42	42	42	42	43	43	43	43	44	44	44	44	44	44	45	
3" (75mm)		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
4" (100mm)		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6" (150mm)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8" (200mm)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10" (250mm)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total		6,085	6,120	6,266	6,412	6,558	6,704	6,850	6,990	7,130	7,270	7,410	7,550	7,684	7,818	7,952	8,086	8,220	8,344	8,468	8,592	8,716	8,840	8,964	9,088	9,212

Table 13: Monthly Fixed Charge by Meter Size

Meter Size	A.W.W.A. Meter Equivalency Factor	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Annual Increase in Monthly Fixed Charge			8.0%	8.0%	8.0%	8.0%	8.0%	7.0%	6.0%	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	3.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	
5/8" (15mm) x 3/4" (18mm)	1	\$18.55	\$20.03	\$21.64	\$23.37	\$25.24	\$27.26	\$29.46	\$31.84	\$34.52	\$37.50	\$40.80	\$44.44	\$48.44	\$52.92	\$57.90	\$63.40	\$69.44	\$76.04	\$83.32	\$91.40	\$100.28	\$110.00	\$120.68	\$132.44	\$145.40
3/4" (18mm)	1	\$18.55	\$20.03	\$21.64	\$23.37	\$25.24	\$27.26	\$29.46	\$31.84	\$34.52	\$37.50	\$40.80	\$44.44	\$48.44	\$52.92	\$57.90	\$63.40	\$69.44	\$76.04	\$83.32	\$91.40	\$100.28	\$110.00	\$120.68	\$132.44	\$145.40
1" (25mm)	1.4	\$25.97	\$28.05	\$30.29	\$32.71	\$35.33	\$38.16	\$41.23	\$44.58	\$48.24	\$52.19	\$56.45	\$61.04	\$66.00	\$71.34	\$77.08	\$83.24	\$89.84	\$96.90	\$104.44	\$112.48	\$121.04	\$130.16	\$139.84	\$150.16	\$161.20
1-1/2" (37mm)	1.8	\$33.39	\$36.06	\$38.95	\$42.06	\$45.43	\$49.06	\$52.96	\$57.15	\$61.64	\$66.44	\$71.56	\$77.04	\$82.88	\$89.08	\$95.64	\$102.56	\$109.84	\$117.56	\$125.72	\$134.44	\$143.72	\$153.60	\$164.08	\$175.20	
2" (50mm)	2.9	\$53.80	\$58.10	\$62.75	\$67.77	\$73.19	\$79.04	\$85.38	\$92.24	\$99.64	\$107.56	\$116.00	\$125.04	\$134.68	\$144.92	\$155.76	\$167.20	\$179.36	\$192.24	\$205.92	\$220.40	\$235.76	\$252.00	\$269.12	\$287.12	
3" (75mm)	11	\$204.05	\$220.37	\$238.00	\$257.04	\$277.61	\$299.82	\$323.80	\$349.56	\$376.96	\$406.00	\$436.76	\$469.24	\$503.44	\$539.36	\$577.00	\$616.36	\$657.44	\$700.24	\$744.72	\$790.92	\$838.92	\$888.72	\$939.36	\$991.84	\$1,046.16
4" (100mm)	14	\$259.70	\$280.48	\$302.91	\$327.15	\$353.32	\$381.58	\$408.30	\$437.76	\$469.04	\$493.24	\$520.36	\$550.40	\$583.44	\$619.52	\$658.64	\$699.84	\$743.12	\$788.48	\$835.92	\$885.44	\$937.04	\$990.72	\$1,046.48	\$1,104.32	\$1,164.24
6" (150mm)	21	\$389.55	\$420.71	\$454.37	\$490.72	\$529.98	\$572.38	\$612.44	\$654.19	\$698.67	\$745.99	\$796.28	\$849.56	\$905.84	\$965.12	\$1,027.40	\$1,092.68	\$1,160.96	\$1,232.24	\$1,306.52	\$1,383.80	\$1,464.08	\$1,547.36	\$1,633.64	\$1,722.92	\$1,815.20
8" (200mm)	29	\$537.95	\$580.99	\$627.46	\$677.66	\$731.88	\$790.43	\$852.75	\$918.85	\$988.50	\$1,061.70	\$1,138.50	\$1,219.92	\$1,305.96	\$1,396.64	\$1,491.96	\$1,591.92	\$1,696.44	\$1,805.52	\$1,919.16	\$2,037.36	\$2,160.12	\$2,287.44	\$2,419.32	\$2,555.76	
10" (250mm)	40	\$742.00	\$801.36	\$865.47	\$934.71	\$1,009.48	\$1,090.24	\$1,166.56	\$1,236.55	\$1,273.65	\$1,311.86	\$1,351.21	\$1,378.24	\$1,405.80	\$1,433.92	\$1,462.60	\$1,491.85	\$1,536.60	\$1,598.07	\$1,661.99	\$1,728.47	\$1,797.61	\$1,869.51	\$1,944.29	\$2,022.07	\$2,102.95

Table 14: Annual Revenue Generated Based on Meter Size

Meter Size	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
5/8" (15mm) x 3/4" (18mm)		\$1,327,586	\$1,442,063	\$1,595,179	\$1,763,564	\$1,948,680	\$2,152,127	\$2,353,656	\$2,546,581	\$2,676,234	\$2,811,373	\$2,952,211	\$3,068,881	\$3,186,504	\$3,307,604	\$3,432,271	\$3,560,601	\$3,728,892	\$3,937,185	\$4,156,173	\$4,386,378	\$4,628,349</				

APPENDIX J

NIAGARA REGION'S 50% FIXED AND 50% VARIABLE RATE STRUCTURE PROJECTIONS

Water System - Rates & Reserve Calculation for the Period 2010 to 2034 Based on Regional Charges 50% Fixed and 50% Variable

Table J1: Calculation of Annual Water Costs with Inflation (in \$1,000's)

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
Inflation Rate	2.00%																										
Real Interest Rate	0.00%																										
Nominal Interest Rate	0.00%																										
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034		
Inflation Index	1.000	1.020	1.040	1.061	1.082	1.104	1.126	1.149	1.172	1.195	1.219	1.243	1.268	1.294	1.319	1.346	1.373	1.400	1.428	1.457	1.486	1.516	1.546	1.577	1.608		
Projected Annual Regional Fixed Charge (50%)	\$488,737	\$1,124,498	\$1,306,901	\$1,484,208	\$1,669,675	\$1,821,814	\$1,955,737	\$2,073,081	\$2,197,466	\$2,306,699	\$2,421,363	\$2,541,725	\$2,642,417	\$2,747,097	\$2,855,925	\$2,969,063	\$3,086,684	\$3,178,402	\$3,272,846	\$3,370,097	\$3,470,237	\$3,573,352	\$3,679,532	\$3,788,866	\$3,901,450		
Projected Annual Regional Variable Charge (50%)	\$1,464,235	\$1,124,498	\$1,306,901	\$1,484,208	\$1,669,675	\$1,821,814	\$1,955,737	\$2,073,081	\$2,197,466	\$2,306,699	\$2,421,363	\$2,541,725	\$2,642,417	\$2,747,097	\$2,855,925	\$2,969,063	\$3,086,684	\$3,178,402	\$3,272,846	\$3,370,097	\$3,470,237	\$3,573,352	\$3,679,532	\$3,788,866	\$3,901,450		
Rate Stabilization Allowance for Demand Variations and Emergency Fund	\$0.000	\$219,830	\$21,288	\$20,034	\$22,069	\$24,312	\$20,086	\$20,698	\$23,418	\$25,320	\$27,376	\$29,599	\$30,704	\$34,521	\$37,325	\$40,355	\$43,632	\$45,246	\$50,888	\$55,020	\$59,487	\$64,318	\$69,540	\$75,187	\$81,292		
Annual Contribution to Capital Reserve	\$785,993	\$793,853	\$801,791	\$809,809	\$817,907	\$826,087	\$834,347	\$842,691	\$851,118	\$859,629	\$868,225	\$876,908	\$885,677	\$894,533	\$903,479	\$912,513	\$921,639	\$930,855	\$940,164	\$949,565	\$959,061	\$968,651	\$978,338	\$988,121	\$998,003		
Annual Distribution O&M Cost	\$1,053,500	\$1,106,807	\$1,162,812	\$1,221,650	\$1,283,465	\$1,348,409	\$1,416,638	\$1,488,320	\$1,563,629	\$1,642,749	\$1,725,872	\$1,813,201	\$1,904,949	\$2,001,339	\$2,102,607	\$2,208,999	\$2,320,774	\$2,438,205	\$2,561,579	\$2,691,194	\$2,827,369	\$2,970,434	\$3,120,738	\$3,278,647	\$3,444,547		
Capital Costs with Inflation	\$33,800	\$412,080	\$900,362	\$1,227,818	\$1,024,251	\$1,131,291	\$938,071	\$990,260	\$957,825	\$1,061,078	\$1,156,571	\$1,272,787	\$1,400,712	\$1,820,105	\$1,795,811	\$2,239,396	\$2,212,504	\$2,277,724	\$2,315,278	\$2,432,720	\$2,691,250	\$2,871,967	\$2,673,159	\$2,114,622	\$2,518,813		
Internal Loan from Town (Interest at 0%)	\$0.000	\$0.000	\$0.000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	
Debt Charges (including Interest)	\$10,780	\$127,407	\$254,815	\$294,615	\$412,019	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$565,516	\$310,701	\$270,900	\$153,497	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	
Total Net Annual Costs (in 2010 \$)	\$3,837,045	\$4,908,974	\$5,754,870	\$6,612,343	\$6,969,062	\$7,609,243	\$7,756,133	\$8,123,647	\$8,426,438	\$8,837,690	\$9,256,285	\$9,711,460	\$9,887,576	\$10,515,593	\$10,704,566	\$11,339,390	\$11,671,916	\$12,048,834	\$12,413,600	\$12,868,692	\$13,477,640	\$14,022,074	\$14,200,838	\$14,034,310	\$14,845,554		

Table J2: Number of Accounts by Meter Size

Meter Size	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
3/8" (15mm) x 3/8" (18mm)		5,964	5,998	6,144	6,289	6,435	6,580	6,725	6,865	7,004	7,143	7,283	7,422	7,556	7,689	7,822	7,956	8,089	8,212	8,336	8,459	8,582	8,706	8,829	8,952	9,076
1/2" (25mm)		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1" (25mm)		26	26	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1-1/2" (37mm)		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2" (50mm)		40	40	40	41	41	41	41	41	42	42	42	42	42	43	43	43	43	43	44	44	44	44	44	45	45
3" (75mm)		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
4" (100mm)		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6" (150mm)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8" (200mm)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10" (250mm)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		6,085	6,120	6,266	6,412	6,558	6,704	6,850	6,990	7,130	7,270	7,410	7,550	7,684	7,818	7,952	8,086	8,220	8,344	8,468	8,592	8,716	8,840	8,964	9,088	9,212

Table J3: Monthly Fixed Charge by Meter Size

Meter Size	A.W.W.A. Meter Equivalency Factor	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Annual Increase in Monthly Fixed Charge:			26.0%	18.0%	12.0%	10.0%	6.0%	5.0%	6.0%	4.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	2.0%	2.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	2.0%
3/8" (15mm) x 3/8" (18mm)	1	\$18.55	\$23.37	\$27.58	\$30.89	\$33.98	\$36.02	\$37.82	\$40.09	\$41.69	\$42.94	\$44.23	\$45.56	\$46.92	\$48.33	\$49.78	\$51.27	\$52.30	\$53.35	\$54.95	\$56.59	\$58.29	\$60.04	\$61.24	\$62.47	\$63.72
1/2" (25mm)	1.4	\$25.97	\$32.72	\$38.61	\$43.25	\$47.57	\$50.42	\$52.95	\$56.12	\$57.96	\$60.12	\$62.92	\$65.78	\$68.69	\$71.64	\$74.68	\$77.72	\$80.76	\$83.80	\$86.84	\$89.88	\$92.92	\$95.96	\$98.99	\$102.03	\$105.07
1-1/2" (37mm)	1.8	\$33.39	\$42.07	\$49.64	\$55.60	\$61.16	\$64.83	\$68.07	\$72.16	\$75.04	\$77.29	\$79.61	\$82.00	\$84.46	\$87.00	\$89.61	\$92.29	\$94.14	\$96.02	\$98.90	\$101.87	\$104.93	\$108.07	\$110.24	\$112.44	\$114.69
2" (50mm)	2.9	\$53.80	\$67.78	\$79.98	\$89.58	\$98.54	\$104.25	\$109.67	\$116.25	\$120.90	\$124.53	\$128.27	\$132.11	\$136.08	\$140.16	\$144.37	\$148.70	\$153.16	\$157.74	\$162.44	\$167.25	\$172.17	\$177.20	\$182.34	\$187.58	\$192.92
3" (75mm)	11	\$204.05	\$257.10	\$303.38	\$339.79	\$373.77	\$396.19	\$416.00	\$440.96	\$458.60	\$473.36	\$486.53	\$501.12	\$516.16	\$531.64	\$547.59	\$564.02	\$575.30	\$586.81	\$604.41	\$622.54	\$641.22	\$660.46	\$673.67	\$687.14	\$700.88
4" (100mm)	14	\$259.70	\$327.22	\$386.12	\$432.46	\$475.70	\$504.24	\$529.46	\$561.22	\$583.67	\$601.18	\$619.22	\$637.80	\$656.93	\$676.64	\$696.94	\$717.84	\$732.20	\$746.85	\$769.25	\$792.33	\$816.10	\$840.58	\$863.39	\$884.54	\$902.03
6" (150mm)	21	\$389.55	\$490.83	\$579.18	\$648.68	\$713.55	\$756.37	\$794.18	\$841.84	\$875.51	\$901.77	\$928.83	\$956.69	\$985.39	\$1,014.96	\$1,045.40	\$1,076.77	\$1,098.30	\$1,120.27	\$1,153.88	\$1,188.49	\$1,224.15	\$1,260.87	\$1,298.64	\$1,331.81	\$1,368.05
8" (200mm)	29	\$537.95	\$677.82	\$799.82	\$895.38	\$985.38	\$1,044.51	\$1,096.73	\$1,162.54	\$1,209.04	\$1,245.31	\$1,282.67	\$1,321.15	\$1,360.78	\$1,401.61	\$1,443.65	\$1,486.96	\$1,516.70	\$1,547.04	\$1,593.45	\$1,641.25	\$1,690.49	\$1,741.20	\$1,776.03	\$1,811.55	\$1,847.78
10" (250mm)	40	\$742.00	\$934.92	\$1,103.21	\$1,235.59	\$1,359.15	\$1,440.70	\$1,512.73	\$1,603.50	\$1,667.64	\$1,717.67	\$1,769.20	\$1,822.27	\$1,876.94	\$1,933.25	\$1,991.25	\$2,050.98	\$2,092.00	\$2,133.84	\$2,197.86	\$2,263.79	\$2,331.71	\$2,401.66	\$2,449.69	\$2,498.69	\$2,548.66

Table J4: Annual Revenue Generated Based on Meter Size

Meter Size	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
3/8" (15mm) x 3/8" (18mm)		\$1,327,586	\$1,682,407	\$2,033,361	\$2,331,259	\$2,623,667	\$2,843,925	\$3,052,100	\$3,202,276	\$3,504,097	\$3,681,040	\$3,865,444	\$4,057,598	\$4,254,422	\$4,459,402	\$4,672,850	\$4,895,089	\$5,076,683	\$5,257,180	\$5,496,225	\$5,744,879	\$6,003				

Table J10: Future Water System Capital Cost Projections in 2010 Dollars (Using Region's "50-50" Rate Structure) Over 25 Years

Year	Pipe Replacement - Rehabilitation	Studies	Water Loss Reduction	Growth Related Projects	Non-Growth Capital (Watermain Loops etc)	Total Capital Costs in 2010 Dollars
2010	\$33,800	\$0	\$0		\$0	\$33,800
2011	\$404,000					\$404,000
2012	\$865,400					\$865,400
2013	\$1,157,000					\$1,157,000
2014	\$926,250	\$20,000				\$946,250
2015	\$186,300		\$100,000			\$286,300
2016	\$326,700				\$125,000	\$451,700
2017	\$290,925			\$13,940		\$304,865
2018	\$340,200			\$5,200		\$345,400
2019	\$327,375	\$20,000		\$6,200		\$353,575
2020	\$898,425		\$100,000			\$998,425
2021	\$1,104,300				\$125,000	\$1,229,300
2022	\$1,341,225					\$1,341,225
2023	\$1,341,225			\$66,000		\$1,407,225
2024	\$1,563,975	\$20,000				\$1,583,975
2025	\$1,487,025		\$100,000			\$1,587,025
2026	\$1,626,750				\$125,000	\$1,751,750
2027	\$1,621,350					\$1,621,350
2028	\$1,649,700					\$1,649,700
2029	\$1,711,125	\$20,000				\$1,731,125
2030	\$1,769,850		\$100,000			\$1,869,850
2031	\$1,729,350				\$125,000	\$1,854,350
2032	\$1,341,225					\$1,341,225
2033	\$1,341,225	\$20,000				\$1,361,225
2034	\$1,491,750		\$100,000		\$125,000	\$1,716,750

Appendix J: Niagara Region's 50% Fixed 50% Variable Rate Structure

PROJECTED REGIONAL 2011-2015 CHARGES BASED ON 50% FIXED AND 50% VARIABLE

Item Description and Assumptions Made	YEAR					
	2010	2011	2012	2013	2014	2015
<i>Regional Water Consumption Volume Projections</i>						
100% of 2010 Regional Volume (m3 as estimated by the Region based on 3-yr rolling average)	62,927,295					
Projected % Decline in Annual Water Consumption (as estimated by the Region at 3% per year)		-3%	-3%	-3%	-3%	0%
Projected Decline in Annual Water Consumption (m3)		-1,887,819	-1,831,184	-1,776,249	-1,722,961	0
Projected Annual Regionwide Water Consumption (assuming an annual decline of 3% until 2014)(m3)		61,039,476	59,208,292	57,432,043	55,709,082	55,709,082
<i>Region's Annual Cost Projections</i>						
25% of Region's 2010 Region's Costs (to calculate Region's Fixed Charge)(\$)	\$ 10,504,571					
75% of Region's 2010 Region's Costs (to calculate Region's Variable Charge)(\$)	\$ 31,513,713					
Total Regional Costs (100%) for 2010 (\$)	\$ 42,018,284					
Projected % Increase in Region's Annual Cost but without allowance for Rate Stabilization Fund (includes 2% inflation)		8%	8%	7%	6%	6%
Projected Annual Regional Costs (without allowance for Rate Stabilization Fund) (\$)		\$ 45,379,747	\$ 49,010,126	\$ 52,440,835	\$ 55,587,285	\$ 58,922,523
Projected % allowance for Rate Stabilization Fund (Phased in from 2011 at 6 % of Total Regional Costs to 10% by 2014)		6%	7%	8%	9%	10%
Projected 100% Regional Costs (with allowance for Rate Stabilization Fund) (\$)		\$ 48,102,532	\$ 52,440,835	\$ 56,636,102	\$ 60,590,141	\$ 64,814,775
<i>Region's Fixed Charge Calculations (Based on 50% of the Region's Total Annual Cost including Stabilization Allowance)</i>						
50% of Region's Cost to be Recovered through Region's Fixed Charge to Area Municipalities (\$)		\$ 24,051,266	\$ 26,220,418	\$ 28,318,051	\$ 30,295,071	\$ 32,407,387
Projected Annual Consumption (Volume to be Purchased) by NOTL including growth (m3)	2,770,577	2,797,895	2,836,516	2,836,516	2,836,516	2,836,516
Projected NOTL Portion (%) of the Region's Fixed Cost (NOTL's Projected Consumption / Annual Regionwide Consumption)		4.58%	4.79%	4.94%	5.09%	5.09%
Projected Regional Annual Fixed Charge to the Town of NOTL for 2011 -2015(\$)		\$ 1,102,449	\$ 1,256,152	\$ 1,398,603	\$ 1,542,521	\$ 1,650,073
<i>Region's Uniform Rate Calculations (Based on 50% of the Region's Total Annual Cost including Stabilization Allowance)</i>						
50% of Region's Cost to calculate Consumption Charge (Uniform Rate) to Area Municipalities (\$)		\$ 24,051,266	\$ 26,220,418	\$ 28,318,051	\$ 30,295,071	\$ 32,407,387
Projected Uniform Rate Per Cubic Metre (50% of Region's Cost/Total Regionwide Volume) (\$/m3)to be charged to all Area Municipalities for 2011-2015		\$ 0.3940	\$ 0.4429	\$ 0.4931	\$ 0.5438	\$ 0.5817