

TOWN OF PELHAM
2014 Operating Budget - Water

	2012 Actual	2013 Budget	2013 Actual to Dec 31/13	2014 Budget
REVENUES				
Water Consumption Charge	1,552,195	1,605,000	1,447,870	1,454,084
Water Haulers	117,650	117,078	94,677	100,000
Flat Rate Charge	626,937	635,722	637,243	639,055
Meter Installations	10,150	10,000	9,854	10,000
Water Service Installations	-			
Fees - Administration Charges	3,630	3,500	3,040	3,500
Fees - Disconnect/Reconnect	2,321	2,500	2,605	2,500
Penalties - Water & Sewer	5,820	6,000	2,191	3,000
Interest Revenue	2,500	2,500	2,500	2,500
Other Revenues	15,307	2,000	2,230	2,000
Rain Barrel Program Revenues	5,662	7,500	4,220	7,500
Transfer from Deferred Revenues		50,000	-	
Total Revenues	2,342,172	2,441,800	2,206,430	2,224,139
EXPENSES				
Total Salaries & Benefits	228,868	212,403	244,010	224,009
WSIB			9,066	9,000
Professional Development	3,629	11,692	9,503	12,490
Associations/Memberships	600	1,400	600	700
Mileage	-		126	600
Other Travel Expenses	548		133	-
Hydro	5,857	6,350	4,576	5,000
Water	4,163	4,200	15,520	16,000
Hand Held Devices	1,689	3,400	4,231	4,200
Office Supplies and Services	67	500	410	500
Materials and Supplies	948	2,000	2,302	1,000
Printing Fees/Copy Costs	1,490	1,500	2,691	-
Postage	16,550	16,500	17,180	16,000
Protective Clothing	442	2,500	540	3,000
Advertising	121	1,000	-	-
Rainbarrel Program	25		-	-
Furniture and Equipment - Office		750		-
Insurance	16,300	16,300	15,302	14,630
Licences	115	-	115	-
Taxes on Own Property	2,512	2,600	2,664	2,700
Legal Fees	2,362	2,500	642	-
Software Support	2,101	6,000	771	6,000
Contract Services - Snow Removal	412	1,000	-	-
Contract Services - Engineering	7,846	27,000	-	27,000
Contract Services - Other	27,707	25,000	25,979	-
Contract Services - Region	1,061,678	1,100,000	1,027,402	1,100,000
Building Rental	12,211	12,500	12,211	12,500
Transfer to Water Capital Reserve	249,242	300,000	300,000	350,000
Transfer to Lifecycle Reserve	250,000	250,000	68,176	
Total Administration	1,897,483	2,007,095	1,764,151	1,805,329

TOWN OF PELHAM
2014 Operating Budget - Water

	2012 Actual	2013 Budget	2013 Actual to Dec 31/13	2014 Budget
WATER SYSTEM EXPENSES				
Salaries and Wages - Regular	198,337	184,069	211,460	194,127
Materials & Supplies	45,220	48,500	12,221	40,000
Contracted Services - Other	29,340	35,000	18,933	-
Equipment Rental - Other	259	3,000	-	1,000
Total Administration - Water System	273,156	270,569	242,614	235,127
WATER METER MAINTENANCE EXPENSES				
Salaries and Wages - Regular	110,400	102,458	117,704	108,057
Materials & Supplies	7,775	10,000	24,680	20,000
Contracted Services - Other			5,832	2,000
Total Administration - Water Meter	118,175	112,458	148,216	130,057
WATER TESTING EXPENSE				
Salaries and Wages - Regular	17,904	16,616	19,089	17,524
Materials & Supplies	225	1,500	62	1,200
Contract Services - Water Testing	21,468	20,500	20,637	22,200
Total Administration - Water Testing	39,597	38,616	39,788	40,924
WATER CONSERVATION PROGRAM EXPENSES				
Salaries and Wages - Regular	2,761	2,562	2,943	2,702
Advertising		500		-
Rainbarrel Program	10,075	10,000	8,693	10,000
Low Flush Toilet Rebate	925	-	25	-
Total Expenses	13,761	13,062	11,661	12,702
Grand Total Expenses	2,342,172	2,441,800	2,206,430	2,224,139
Net Surplus(Deficit)	0	0	0	0

TOWN OF PELHAM
2014 Operating Budget - Wastewater

REVENUES	2012 Actual	2013 Budget	2013 Actual to Dec 31/13	2014 Budget
Sewer Consumption Charges	940,163	1,057,779	888,225	978,352
Fixed Rate User Charge	663,221	672,229	676,445	676,758
Penalties on overdue accounts	4,340	5,000	4,328	5,000
Other Revenues	150		720	
Transfer from Reserve			-	
Total Revenues	1,607,874	1,735,008	1,569,718	1,660,110

EXPENSES

Salaries and Benefits	102,173.00	191,608	89,436	202,235
WSIB			1,358	1,350
Materials & Supplies	4,771	5,000	2,693	5,000
Print Fees/Copy Costs		500		-
Low Flush Toilet Rebate	925	-	-	-
Insurance	1,690	1,700	1,596	1,525
Licenses	75	200	-	-
Legal Fees	970	1,000	-	-
Contract Services - Engineering	-	5,000		5,000
Contract Services - Other	10,550	-	1,733	15,000
Contract Services - Inspections	-	80,000	1,487	80,000
Transfer - Capital Reserve Fund	129,838	125,000	125,000	150,000
Transfer to Lifecycle Reserve	150,000	125,000	106,263	
Total Expenses	400,992	535,008	329,566	460,110

Niagara Region Volumetric Sewage Cost	1,239,361	1,200,000	1,240,152	1,200,000
---------------------------------------	-----------	-----------	-----------	-----------

Total Wastewater Expenditures	1,640,353	1,735,008	1,569,718	1,660,110
--------------------------------------	------------------	------------------	------------------	------------------

Net Surplus(deficit)	-	-	-	-
-----------------------------	----------	----------	----------	----------

TOWN OF PELHAM
2014 Proposed Water and Wastewater Rates
As per 2 Month Billing

	2013 Rates	2014 Rates	\$ INCREASE	% INCREASE
WATER				
Bi-Monthly Base Charge (up to 19mm Meter)	\$ 22.29	\$ 22.29	-\$ 0.00	0.00%
Bi-Monthly Base Charge (25mm Meter)	\$ 44.57	\$ 44.57	-\$ 0.00	0.00%
Bi-Monthly Base Charge (37mm Meter)	\$ 62.41	\$ 62.41	\$ 0.00	0.00%
Bi-Monthly Base Charge (50mm Meter)	\$ 89.14	\$ 89.14	-\$ 0.00	0.00%
Bi-Monthly Base Charge (75mm Meter)	\$ 222.87	\$ 222.87	\$ 0.00	0.00%
Usage Charge, Per Cubic Metre	\$ 1.3275	\$ 1.3275	\$ 0.00	0.00%
WATER HAULERS				
Usage Charge, Per Cubic Metre	\$ 1.4382	\$ 1.4382	\$ -	0.00%
WASTEWATER				
Bi-Monthly Base Charge	\$ 26.34	\$ 26.34	\$ -	0.00%
Bi-Monthly Base Charge (25mm Meter)	\$ 52.68	\$ 52.68	\$ -	0.00%
Bi-Monthly Base Charge (37mm Meter)	\$ 73.76	\$ 73.76	\$ -	0.00%
Bi-Monthly Base Charge (50mm Meter)	\$ 105.37	\$ 105.37	\$ -	0.00%
Bi-Monthly Base Charge (75mm Meter)	\$ 263.43	\$ 263.43	\$ -	0.00%
Usage Charge based on Cubic Metres for Sewer	\$ 0.9119	\$ 0.9119	\$ -	0.00%
SEWERS ONLY, NO WATER				
Base Charge Per Billing Period (2 Months)	\$ 26.34	\$ 26.34	\$ -	0.00%
Usage Charge based on Cubic Meters for Sewer	\$ 92.83	\$ 92.83	\$ -	0.00%

Table 1 - Assumptions

Municipality:	Town of Pelham	Notes
Budget Year	2013	Current Budget Year
Forecast Start Year	2014	1st Year after Current Budget Year
Study Year	2014	Equal to Forecast Start Year
Inflation - General	2%	General rate of inflation to be used if desired
Reserve Earnings	3%	Assumed rate of interest earned on reserve funds
Financing Rate	5%	Assumed interest rate for debt calculations
Borrowing Term	10.0	Assumed term for debt calculations
Effective Interest Rate	3%	Financing rate less general inflation
Development Charge Index	2%	Assumed annual rate for indexing/inflating the DC charges
Base Charge Inflation	2%	Assumed annual rate of inflation to the base charges
Capital Forecast Inflation	2%	Assumed annual rate of inflation to capital expenditures in the capital forecast
Inventory Inflation	3%	Assumed annual rate of inflation on assets/infrastructure
Operating Budget Inflation - Base	2%	Assumed annual rate of inflation for operating expenditures and miscellaneous revenues
Operating Budget Inflation - Utilities/Chemicals	5%	Assumed annual rate of inflation for operating expenditures relating to Utilities and/or Chemicals
Conservation	0%	Assumed percentage for reduction in annual volumes due to conservation
Base Year for Inventory	2014	Assumed first year for calculating lifecycle needs for the forecast
Year of PSAB Inventory Valuation (Inflate these dollars to current dollars for Lifecycle Calculations)	2013	Valuation Year of assets (for lifecycle needs forecast)

Have set this to 0% for water

Reserve/Reserve Funds	Use	Optimal Level	Input # of Years	Notes
Reserves:				
Contingency - Water - Capital Specific	For Major Capital Project - to be defined by user	25%		Amount required for Capital Contingency reserve based on percentage of specific major capital works
Contingency - Water - Capital Program (% of one or two year capital program)	For Major Capital Program (e.g. For unforeseen increases in expenditures over budget estimates)	10%	1	Amount required in capital reserves based on the percentage of either 1 or 2 years of capital expenditures
Contingency - Water - Operating - Amount to be defined by Municipality	For Changes in operating processes (e.g. Changing from contracted service to municipal run service, converting treatment facility from sand filter system to membrane, etc.)	\$0		Minimum balance to keep in a Water Operating Budget Contingency Reserve
Contingency - Wastewater - Capital Specific	For Major Capital Project - to be defined by user	25%		Amount required for Capital Contingency reserve based on percentage of specific major capital works
Contingency - Wastewater - Capital Program	For Major Capital Program (e.g. For unforeseen increases in expenditures over budget estimates)	10%	1	Amount required in capital reserves based on the percentage of either 1 or 2 years of capital expenditures
Contingency - Wastewater - Operating - Amount to be defined by Municipality	For Changes in operating processes (e.g. Changing from contracted service to municipal run service, converting treatment facility from type to another, etc.)	\$0		Minimum balance to keep in a Wastewater Operating Budget Contingency Reserve
Rate Stabilization - Water	Fluctuations in Operating revenues, expenditures consumption, etc.	\$0		Minimum balance for Water rate stabilization reserve based on historic average (can be overridden to be a specific amount)
Rate Stabilization - Wastewater	Fluctuations in Operating revenues, expenditures consumption, etc.	\$0		Minimum balance for Wastewater rate stabilization reserve based on historic average (can be overridden to be a specific amount)
Reserve Funds				
Development Charges	Growth Related Capital	n/a		
Lifecycle-Water	Capital Replacement	300,000.00		
Capital-Water	Significant future capital project - to be used to offset need for debt			
Lifecycle-Wastewater	Capital Replacement	200,000.00		
Capital-Wastewater	Significant future capital project - to be used to offset need for debt			

Lifecycle Method	Input Yes to Preferred Method (Choose only 1)
Water:	
Straight Line Depreciation Method - Total Years	Yes
Straight Line Depreciation Method - Remaining Years	
Sinking Fund Method	
Percentage of Total Assets Method	
Wastewater:	
Straight Line Depreciation Method - Total Years	Yes
Straight Line Depreciation Method - Remaining Years	
Sinking Fund Method	
Percentage of Total Assets Method	

Input required by Municipality

Table 2A - Existing Rates and Rate Structures

Town of Pelham	
2013 - Water Billing Rates	
Base Charge (Monthly)	
¾"	\$11.15
1"	\$22.29
1 ½"	\$31.21
2"	\$44.57
3"	\$111.44
Volume Charge	
\$1.33	per m ³

Town of Pelham	
2013 - Wastewater Billing Rates	
Base Charge (Monthly)	
¾"	\$13.17
1"	\$26.34
1 ½"	\$36.88
2"	\$52.69
3"	\$131.72
Volume Charge	
\$0.91	per m ³

Table 2B
Wholesale Rates

	2013	2014	2015	2016	2017	2018	2019	2020
Water	0.5370	0.5531	0.5697	0.5868	0.6044	0.6225	0.6412	0.6604
Wastewater	-	-	-	-	-	-	-	-

Regional rates assumed increased at inflation + 1% annually

Wastewater purchased at fixed priced of \$1.2 million

Table 3
Town of Pelham
Current Development Charge Rates

2014 - Residential Development Charge Rates	Single & Semi-Detached	Multiple Unit Dwellings	Apartments - 2+ Bedrooms	Apartments - < 2 Bedrooms
Water				
Fenwick	1,426	996	921	622
Fonthill	1,205	842	778	525
Wastewater				
Fenwick	2,921	2,040	1,887	1,274
Fonthill	1,189	842	768	518

Town of Pelham		
2014 - Non-Residential Development Charge Rates	Non-Residential - Per square Foot	Non-Residential - Per square Metre
Water		
Fenwick	0.91	-
Fonthill	0.81	-
Wastewater		
Fenwick	1.87	-
Fonthill	0.79	-

Table 4
Town of Pelham
Development Charge Reserve Fund Cash-Flow

Water							
Fenwick							
Development Charge Rates	2014	2015	2016	2017	2018	2019	2020
Residential (per unit):							
Single/Semi	1,426	1,455	1,484	1,514	1,544	1,575	1,607
Multiples	996	1,016	1,036	1,057	1,078	1,100	1,122
Apartments 2+ Bdrms	921	939	958	977	997	1,017	1,037
Apartments < 2Bdrms	622	634	647	660	673	686	700
Non-Residential (per ft ²)	0.91	0.93	0.95	0.97	0.99	1.00	1.02

Growth	2014	2015	2016	2017	2018	2019	2020
Residential Units:							
Single/Semi	4	4	4	4	4	4	4
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential Square Feet	3,210	3,210	3,210	3,210	3,210	3,210	3,210

Development Charge Proceeds	2014	2015	2016	2017	2018	2019	2020
Residential:							
Single/Semi	5,704	5,820	5,936	6,056	6,176	6,300	6,428
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential	2,921	2,980	3,039	3,100	3,162	3,225	3,290
Total Water Development Charge	8,625	8,800	8,975	9,156	9,338	9,525	9,718

Table 4
Town of Pelham
Development Charge Reserve Fund Cash-Flow

Water							
Fonthill							
Development Charge Rates	2014	2015	2016	2017	2018	2019	2020
Residential (per unit):							
Single/Semi	1,205	1,229	1,254	1,279	1,305	1,331	1,358
Multiples	842	859	876	894	912	930	949
Apartments 2+ Bdrms	778	794	810	826	843	860	877
Apartments < 2Bdrms	525	536	547	558	569	580	592
Non-Residential (per ft ²)	0.81	0.83	0.84	0.86	0.88	0.89	0.91

Growth	2014	2015	2016	2017	2018	2019	2020
Residential Units:							
Single/Semi	36	36	36	36	36	36	36
Multiples							
Apartments 2+ Bdrms							
Apartments < 2Bdrms							
Non-Residential Square Feet	24,310	24,310	24,310	24,310	24,310	24,310	24,310

Development Charge Proceeds	2014	2015	2016	2017	2018	2019	2020
Residential:							
Single/Semi	43,380	44,244	45,144	46,044	46,980	47,916	48,888
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential	19,691	20,085	20,487	20,896	21,314	21,741	22,175
Total Water Development Charge	63,071	64,329	65,631	66,940	68,294	69,657	71,063

Table 4
Town of Pelham
Development Charge Reserve Fund Cash-Flow

Summary of Water Development Charge Revenue							
Development Charge Proceeds	2014	2015	2016	2017	2018	2019	2020
Residential							
Single/Semi	49,084	50,064	51,080	52,100	53,156	54,216	55,316
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential	22,612	23,064	23,526	23,996	24,476	24,966	25,465
Total Water Development Charge	71,696	73,128	74,606	76,096	77,632	79,182	80,781

Table 4
Town of Pelham
Development Charge Reserve Fund Cash-Flow

Wastewater							
Fenwick							
Development Charge Rates	2014	2015	2016	2017	2018	2019	2020
Residential (per unit):							
Single/Semi	2,921	2,979	3,039	3,100	3,162	3,225	3,290
Multiples	2,040	2,081	2,123	2,165	2,208	2,252	2,297
Apartments 2+ Bdrms	1,887	1,925	1,964	2,003	2,043	2,084	2,126
Apartments < 2Bdrms	1,274	1,299	1,325	1,352	1,379	1,407	1,435
Non-Residential (per ft ²)	1.87	1.91	1.95	1.98	2.02	2.06	2.11

Growth	2014	2015	2016	2017	2018	2019	2020
Residential Units:							
Single/Semi	4	4	4	4	4	4	4
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential Square Feet	-	-	-	-	-	-	-

Development Charge Proceeds	2014	2015	2016	2017	2018	2019	2020
Residential:							
Single/Semi	11,684	11,916	12,156	12,400	12,648	12,900	13,160
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential	-	-	-	-	-	-	-
Total Wastewater Development Charge	11,684	11,916	12,156	12,400	12,648	12,900	13,160

Table 4
Town of Pelham
Development Charge Reserve Fund Cash-Flow

Wastewater							
Fonthill							
Development Charge Rates	2014	2015	2016	2017	2018	2019	2020
Residential (per unit):							
Single/Semi	1,189	1,213	1,237	1,262	1,287	1,313	1,339
Multiples	842	859	876	894	912	930	949
Apartments 2+ Bdrms	768	783	799	815	831	848	865
Apartments < 2Bdrms	518	528	539	550	561	572	583
Non-Residential (per ft ²)	0.79	0.81	0.82	0.84	0.86	0.87	0.89

Growth	2014	2015	2016	2017	2018	2019	2020
Residential Units:							
Single/Semi	36	36	36	36	36	36	36
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential Square Feet	-	-	-	-	-	-	-

Development Charge Proceeds	2014	2015	2016	2017	2018	2019	2020
Residential:							
Single/Semi	42,804	43,668	44,532	45,432	46,332	47,268	48,204
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential	-	-	-	-	-	-	-
Total Wastewater Development Charge	42,804	43,668	44,532	45,432	46,332	47,268	48,204

Table 4
Town of Pelham
Development Charge Reserve Fund Cash-Flow

Summary of Wastewater Development Charge Revenue							
Development Charge Proceeds	2014	2015	2016	2017	2018	2019	2020
Residential							
Single/Semi	54,488	55,584	56,688	57,832	58,980	60,168	61,364
Multiples	-	-	-	-	-	-	-
Apartments 2+ Bdrms	-	-	-	-	-	-	-
Apartments < 2Bdrms	-	-	-	-	-	-	-
Non-Residential	-	-	-	-	-	-	-
Total Wastewater Development Charge	54,488	55,584	56,688	57,832	58,980	60,168	61,364

Table 5
Town of Pelham
Customer Profile

Metered	Water		Wastewater	
	Residential	Non-Residential	Residential	Non-Residential
¾"	4,497	-	4,068	-
1"	37	-	29	-
1 ½"	-	18	-	13
2"	-	29	-	22
3"	-	4	-	3
Total	4,534	51	4,097	38

Estimated

Non-Metered	Water		Wastewater	
	Residential	Non-Residential	Residential	Non-Residential
Residential	-	-	-	-
Non-Residential	-	-	-	-
Total	-	-	-	-

Table 6A
Town of Pelham
Water Volume - Historical

Year	Residential Volume	Non-Residential Volume	Grand Total Volume
2011			
January			-
February			-
March			-
April			-
May			-
June			-
July			-
August			-
September			-
October			-
November			-
December			-
Total	967,993	162,994	1,130,987
Total Customers (December)	4,469	49	4,518
Average Volume/User (m3)	217	3,326	250

Year	Residential Volume	Non-Residential Volume	Grand Total Volume
2013			
January			-
February			-
March			-
April			-
May			-
June			-
July			-
August			-
September			-
October			-
November			-
December			-
Total	1,049,338	159,701	1,209,039
Total Customers (December)	4,534	51	4,585
Average Volume/User (m3)	231	3,115	264

Year	Residential Volume	Non-Residential Volume	Grand Total Volume
2012			
January			-
February			-
March			-
April			-
May			-
June			-
July			-
August			-
September			-
October			-
November			-
December			-
Total	1,042,633	148,083	1,190,716
Total Customers (December)	4,506	51	4,557
Average Volume/User (m3)	231	2,904	261

Five Year Average Volume per User (m3)	225	-	225
---	------------	----------	------------

*2013 information wasn't available, figures are estimated based on previous allocations

**Assumed a reduction of approximately 20%

***Average volume of 225 m³ was assumed due to incomplete information but reflects past usage

Table 7A
Town of Pelham
Wastewater Volume - Historical

Year	Residential Volume	Non-Residential Volume	Grand Total Volume
2011			
January			-
February			-
March			-
April			-
May			-
June			-
July			-
August			-
September			-
October			-
November			-
December			-
Total	870,439	146,567	1,017,006
Total Customers (December)	4,003	44	4,074
Average Volume/User (m3)	217	3,339	250

Year	Residential Volume	Non-Residential Volume	Grand Total Volume
2013			
January			-
February			-
March			-
April			-
May			-
June			-
July			-
August			-
September			-
October			-
November			-
December			-
Total	909,852	118,279	1,076,045
Total Customers (December)	4,097	38	4,135
Average Volume/User (m3)	222	3,092	260

Year	Residential Volume	Non-Residential Volume	Grand Total Volume
2012			
January			-
February			-
March			-
April			-
May			-
June			-
July			-
August			-
September			-
October			-
November			-
December			-
Total	921,031	130,812	1,051,843
Total Customers (December)	4,062	46	4,108
Average Volume/User (m3)	227	2,845	256

Five Year Average Volume per User (m3)	225	-	225
---	------------	----------	------------

*Was not provided 2013 billable volume (as a placeholder, using 89% of water from 2013 as volume for WW)
 **Average volume of 225 m³ was assumed due to incomplete information but reflects past usage

for 2011 and 2012, allocated res/non-res using water percentages

**Table 9
Town of Pelham
Billable vs. Treated/Purchased Volume
Water**

	2011	2012	2013	Assumption for Model
Treated/Purchased Volumes	1,469,470	1,491,850	1,450,000	4,411,320
Billable Volumes	1,130,987	1,190,716	1,209,039	3,530,742
Billing to Produced/Purchased	77%	80%	83%	80%
Water Loss	23%	20%	17%	20%

Wastewater

	2011	2012	2013	Assumption for Model
Treated Volumes	1,542,878	1,369,207	1,403,513	4,315,598
Billable Volumes	1,017,006	1,051,843	1,076,045	3,144,894
Billing to Treated	66%	77%	77%	73%
Wastewater Gain	34%	23%	23%	27%

**Table 10
Town of Pelham
System User Forecast**

Water Users Forecast

Year	New Residential Users	2013	2014	2015	2016	2017	2018	2019	2020
2014	40		20	40	40	40	40	40	40
2015	40			20	40	40	40	40	40
2016	40				20	40	40	40	40
2017	40					20	40	40	40
2018	40						20	40	40
2019	40							20	40
2020	40								20
2021	173								
2022	173								
2023	173								
Total	800	-	20	60	100	140	180	220	260
m ³ /user	225	225	225	225	225	225	225	225	225
Annual Flow		-	4,500	13,500	22,500	31,500	40,500	49,500	58,500

Water Customer Forecast	2013	2014	2015	2016	2017	2018	2019	2020
Existing Residential	4,534	4,534	4,534	4,534	4,534	4,534	4,534	4,534
Existing Non-Residential	51	51	51	51	51	51	51	51
New - Growth	-	20	60	100	140	180	220	260
Total	4,585	4,605	4,645	4,685	4,725	4,765	4,805	4,845

For Constant Rate

Water Consumption Forecast (m ³)	2013	2014	2015	2016	2017	2018	2019	2020
Existing Residential	1,049,338	1,049,338	1,049,338	1,049,338	1,049,338	1,049,338	1,049,338	1,049,338
Existing Non-Residential	159,701	159,701	159,701	159,701	159,701	159,701	159,701	159,701
Adjustment for Conservation	-	-	-	-	-	-	-	-
New	-	4,500	13,500	22,500	31,500	40,500	49,500	58,500
Total	1,209,039	1,213,539	1,222,539	1,231,539	1,240,539	1,249,539	1,258,539	1,267,539

**Table 10
Town of Pelham
System User Forecast**

Purchased Water Volumes								
Water Volume Forecast (m ³)	2013	2014	2015	2016	2017	2018	2019	2020
Annual Billable Volume	1,209,039	1,213,539	1,222,539	1,231,539	1,240,539	1,249,539	1,258,539	1,267,539
Annual Volume Including Allowance for Treated/Purchased vs. Billed Volumes (20%)	1,511,299	1,516,924	1,528,174	1,539,424	1,550,674	1,561,924	1,573,174	1,584,424
Water Wholesale Rate	\$0.537	\$0.553	\$0.570	\$0.587	\$0.604	\$0.623	\$0.641	\$0.660
Volume payment to Region	\$811,567	\$839,026	\$870,606	\$903,325	\$937,224	\$972,345	\$1,008,728	\$1,046,420
Water Fixed Charge	\$263,000	\$262,900	\$270,787	\$278,911	\$287,278	\$295,896	\$304,773	\$313,916
Total Water Purchase Expense	\$1,074,567	\$1,101,926	\$1,141,393	\$1,182,236	\$1,224,502	\$1,268,241	\$1,313,502	\$1,360,337

Treated/Purchased vs. Billed Volume Difference 20%
2013 Purchased volumes were lower than the calculated average

**Table 10
Town of Pelham
System User Forecast**

Wastewater Users Forecast

Year	Total Users	2013	2014	2015	2016	2017	2018	2019	2020
2014	40		20	40	40	40	40	40	40
2015	40			20	40	40	40	40	40
2016	40				20	40	40	40	40
2017	40					20	40	40	40
2018	40						20	40	40
2019	40							20	40
2020	40								20
2021	173								
2022	173								
2023	173								
Total	800	-	20	60	100	140	180	220	260
m ³ /user	225	225	225	225	225	225	225	225	225
Annual Flow		-	4,500	13,500	22,500	31,500	40,500	49,500	58,500

For Constant Rate

Wastewater Customer Forecast	2013	2014	2015	2016	2017	2018	2019	2020
Existing Residential	4,097	4,097	4,097	4,097	4,097	4,097	4,097	4,097
Existing Non-Residential	38	38	38	38	38	38	38	38
New - Growth	-	20	60	100	140	180	220	260
Total	4,135	4,155	4,195	4,235	4,275	4,315	4,355	4,395

For Constant Rate

Wastewater Flows Forecast (m ³)	2013	2014	2015	2016	2017	2018	2019	2020
Existing Residential	909,852	909,852	909,852	909,852	909,852	909,852	909,852	909,852
Existing Non-Residential	118,279	118,279	118,279	118,279	118,279	118,279	118,279	118,279
Adjustment for Conservation	-	-	-	-	-	-	-	-
New	-	4,500	13,500	22,500	31,500	40,500	49,500	58,500
Total	1,028,132	1,032,632	1,041,632	1,050,632	1,059,632	1,068,632	1,077,632	1,086,632

Table 10
Town of Pelham
System User Forecast

Purchased Wastewater Volumes								
Wastewater Volume Forecast (m ³)	2013	2014	2015	2016	2017	2018	2019	2020
Annual Billable Volume	1,028,132	1,032,632	1,041,632	1,050,632	1,059,632	1,068,632	1,077,632	1,086,632
Annual Volume Including Allowance for Treated/Purchased vs. Billed Volumes (27%)	1,408,400	1,414,564	1,426,893	1,439,222	1,451,550	1,463,879	1,476,208	1,488,537
Wastewater Wholesale Rate	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Volume Payment to Region	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Wastewater Fixed Charge	\$1,200,000	\$1,204,002	\$1,240,122	\$1,277,326	\$1,315,645	\$1,355,115	\$1,395,768	\$1,437,641
Total Wastewater Purchase Expense	\$1,200,000	\$1,204,002	\$1,240,122	\$1,277,326	\$1,315,645	\$1,355,115	\$1,395,768	\$1,437,641

Treated/Purchased vs. Billed Volume Difference 27%

Table 11
Town of Pelham
Base Charge - Water

Water	2013	2014	2015	2016	2017	2018	2019	2020
Existing	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585
New	-	20	60	100	140	180	220	260
Subtotal Customers	4,585	4,605	4,645	4,685	4,725	4,765	4,805	4,845
Total Annual Revenue	\$639,058	\$641,733	\$647,083	\$652,432	\$657,782	\$663,131	\$668,481	\$673,831

¾" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	4,497	4,497	4,497	4,497	4,497	4,497	4,497	4,497
New	0	20	60	100	140	180	220	260
Subtotal Customers	4,497	4,517	4,557	4,597	4,637	4,677	4,717	4,757
Monthly Base Charge	\$11.15	\$11.15	\$11.15	\$11.15	\$11.15	\$11.15	\$11.15	\$11.15
Annual Base Charge	\$133.74	\$133.74	\$133.74	\$133.74	\$133.74	\$133.74	\$133.74	\$133.74
Total Annual Revenue	\$601,367	\$604,042	\$609,391	\$614,741	\$620,090	\$625,440	\$630,790	\$636,139

1" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	37	37	37	37	37	37	37	37
New								
Subtotal Customers	37	37	37	37	37	37	37	37
Monthly Base Charge	\$22.29	\$22.29	\$22.29	\$22.29	\$22.29	\$22.29	\$22.29	\$22.29
Annual Base Charge	\$267.42	\$267.42	\$267.42	\$267.42	\$267.42	\$267.42	\$267.42	\$267.42
Total Annual Revenue	\$9,947	\$9,947	\$9,947	\$9,947	\$9,947	\$9,947	\$9,947	\$9,947

1 ½" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	18	18	18	18	18	18	18	18
New								
Subtotal Customers	18	18	18	18	18	18	18	18
Monthly Base Charge	\$31.21	\$31.21	\$31.21	\$31.21	\$31.21	\$31.21	\$31.21	\$31.21
Annual Base Charge	\$374.46	\$374.46	\$374.46	\$374.46	\$374.46	\$374.46	\$374.46	\$374.46
Total Annual Revenue	\$6,776	\$6,776	\$6,776	\$6,776	\$6,776	\$6,776	\$6,776	\$6,776

2" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	29	29	29	29	29	29	29	29
New								
Subtotal Customers	29	29	29	29	29	29	29	29
Monthly Base Charge	\$44.57	\$44.57	\$44.57	\$44.57	\$44.57	\$44.57	\$44.57	\$44.57
Annual Base Charge	\$534.84	\$534.84	\$534.84	\$534.84	\$534.84	\$534.84	\$534.84	\$534.84
Total Annual Revenue	\$15,592	\$15,592	\$15,592	\$15,592	\$15,592	\$15,592	\$15,592	\$15,592

3" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	4	4	4	4	4	4	4	4
New								
Subtotal Customers	4	4	4	4	4	4	4	4
Monthly Base Charge	\$111.44	\$111.44	\$111.44	\$111.44	\$111.44	\$111.44	\$111.44	\$111.44
Annual Base Charge	\$1,337.22	\$1,337.22	\$1,337.22	\$1,337.22	\$1,337.22	\$1,337.22	\$1,337.22	\$1,337.22
Total Annual Revenue	\$5,377	\$5,377	\$5,377	\$5,377	\$5,377	\$5,377	\$5,377	\$5,377

Table 12
Town of Pelham
Base Charge - Wastewater

Wastewater	2013	2014	2015	2016	2017	2018	2019	2020
Existing	4,135	4,135	4,135	4,135	4,135	4,135	4,135	4,135
New	-	20	60	100	140	180	220	260
Subtotal Customers	4,135	4,155	4,195	4,235	4,275	4,315	4,355	4,395
Total Annual Revenue	\$676,628	\$680,465	\$700,522	\$721,109	\$742,240	\$763,928	\$786,186	\$809,029

¾" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	4,068	4,068	4,068	4,068	4,068	4,068	4,068	4,068
New	0	20	60	100	140	180	220	260
Subtotal Customers	4,068	4,088	4,128	4,168	4,208	4,248	4,288	4,328
Monthly Base Charge	\$13.17	\$13.17	\$13.43	\$13.70	\$13.98	\$14.26	\$14.54	\$14.83
Annual Base Charge	\$158.04	\$158.04	\$161.20	\$164.42	\$167.71	\$171.07	\$174.49	\$177.98
Total Annual Revenue	\$642,837	\$645,998	\$665,366	\$685,250	\$705,664	\$726,620	\$748,132	\$770,213

1" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	29	29	29	29	29	29	29	29
New								
Subtotal Customers	29	29	29	29	29	29	29	29
Monthly Base Charge	\$26.34	\$26.87	\$27.40	\$27.95	\$28.51	\$29.08	\$29.66	\$30.26
Annual Base Charge	\$316.08	\$322.40	\$328.85	\$335.43	\$342.14	\$348.98	\$355.96	\$363.08
Total Annual Revenue	\$9,227	\$9,411	\$9,599	\$9,791	\$9,987	\$10,187	\$10,391	\$10,598

1 ½" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	13	13	13	13	13	13	13	13
New								
Subtotal Customers	13	13	13	13	13	13	13	13
Monthly Base Charge	\$36.88	\$37.62	\$38.37	\$39.14	\$39.92	\$40.72	\$41.53	\$42.36
Annual Base Charge	\$442.56	\$451.41	\$460.44	\$469.65	\$479.04	\$488.62	\$498.39	\$508.36
Total Annual Revenue	\$5,791	\$5,907	\$6,025	\$6,146	\$6,268	\$6,394	\$6,522	\$6,652

2" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	22	22	22	22	22	22	22	22
New								
Subtotal Customers	22	22	22	22	22	22	22	22
Monthly Base Charge	\$52.69	\$53.74	\$54.81	\$55.91	\$57.03	\$58.17	\$59.33	\$60.52
Annual Base Charge	\$632.22	\$644.86	\$657.76	\$670.92	\$684.34	\$698.02	\$711.98	\$726.22
Total Annual Revenue	\$14,000	\$14,280	\$14,566	\$14,857	\$15,154	\$15,457	\$15,767	\$16,082

3" Meter Size	2013	2014	2015	2016	2017	2018	2019	2020
Existing	3	3	3	3	3	3	3	3
New								
Subtotal Customers	3	3	3	3	3	3	3	3
Monthly Base Charge	\$131.72	\$134.35	\$137.04	\$139.78	\$142.57	\$145.42	\$148.33	\$151.30
Annual Base Charge	\$1,580.58	\$1,612.19	\$1,644.44	\$1,677.32	\$1,710.87	\$1,745.09	\$1,779.99	\$1,815.59
Total Annual Revenue	\$4,773	\$4,868	\$4,966	\$5,065	\$5,166	\$5,270	\$5,375	\$5,483

Table 13
Town of Pelham
Water Service
Capital Budget Forecast
Uninflated \$

Description	Total	Forecast						
		2014	2015	2016	2017	2018	2019	2020
Capital Expenditures								
Projects in 5-year Capital Budget:								
Haist Street: Canboro Road to Highway 20	75,420	75,420						
Highway 20: Pinecrest to Lookout Street	207,480	207,480						
Highway 20: Pelham Street to 135m East	126,060	126,060						
Highland Avenue: Elizabeth Drive to Canboro Road	97,000	97,000						
Merritt Road: Station Street to Rice Road	862,500		862,500					
Port Robinson Road: Station Street to Rice Road	140,400	140,400						
Water System Repair Equipment	120,000	30,000	30,000	30,000	30,000			
Station Street: Port Robinson Road to Highway (replace watermain)	244,000			244,000				
Pelham Street: Shorthill Place to Hurricane Road (replace watermain)	80,000				80,000			
College Street (replace watermain)	122,000				122,000			
Pelham Street: Pancake Lane to Spruceside Crescent (north entrance) (replace watermain)	240,000					240,000		
Emmett Street (replace watermain)	122,000					122,000		
East Fonthill - north section fire supply main New watermain to service new development	747,500		747,500					
East Fonthill Collector Road New watermain to service new development	802,015	802,015						
Longer Term Growth Related:	-							
Cream Street New watermain - looping	474,500						474,500	
Welland Road New watermain - looping	680,400						680,400	
Daleview Upgrade watermain from 150 to 200	130,000						130,000	
Total Capital Expenditures	5,271,275	1,478,375	1,640,000	274,000	232,000	362,000	1,284,900	-

Table 14
Town of Pelham
Water Service
Capital Budget Forecast
Inflated \$

Description	Budget 2013	Total	Forecast						
			2014	2015	2016	2017	2018	2019	2020
Capital Expenditures									
Projects in 5-year Capital Budget:									
Haist Street: Canboro Road to Highway 20		75,000	75,000	-	-	-	-	-	-
Highway 20: Pinecrest to Lookout Street		207,000	207,000	-	-	-	-	-	-
Highway 20: Pelham Street to 135m East		126,000	126,000	-	-	-	-	-	-
Highland Avenue: Elizabeth Drive to Canboro Road		97,000	97,000	-	-	-	-	-	-
Merritt Road: Station Street to Rice Road		880,000	-	880,000	-	-	-	-	-
Port Robinson Road: Station Street to Rice Road		140,000	140,000	-	-	-	-	-	-
Water System Repair Equipment		124,000	30,000	31,000	31,000	32,000	-	-	-
Station Street: Port Robinson Road to Highway (replace watermain)		254,000	-	-	254,000	-	-	-	-
Pelham Street: Shorthill Place to Hurricane Road (replace watermain)		85,000	-	-	-	85,000	-	-	-
College Street (replace watermain)		129,000	-	-	-	129,000	-	-	-
Pelham Street: Pancake Lane to Spruceside Crescent (north entrance) (replace watermain)		260,000	-	-	-	-	260,000	-	-
Emmett Street (replace watermain)		132,000	-	-	-	-	132,000	-	-
Longer Term Growth Related:									
Cream Street New watermain - looping		524,000	-	-	-	-	-	524,000	-
Welland Road New watermain - looping		751,000	-	-	-	-	-	751,000	-
Daleview Upgrade watermain from 150 to 200		144,000	-	-	-	-	-	144,000	-
Total Capital Expenditures		3,928,000	675,000	911,000	285,000	246,000	392,000	1,419,000	-
Capital Financing									
Grant Funding		-							
Municipal Act		-							
Development Charges Reserve Fund		360,000	140,000	220,000	-	-	-	-	-
Growth Related Debenture Requirements		2,079,000	-	660,000	-	-	-	1,419,000	-
Operating Contributions		-	-	-	-	-	-	-	-
Lifecycle Reserve Fund		-	-	-	-	-	-	-	-
Water Reserve		1,489,000	535,000	31,000	285,000	246,000	392,000	-	-
Non-Growth Related Debenture Requirements		-	-	-	-	-	-	-	-
Total Capital Financing		3,928,000	675,000	911,000	285,000	246,000	392,000	1,419,000	-

Table 15
Town of Pelham
Water Service
Schedule of Non-Growth Related Debenture Repayments
Inflated \$

Debenture Year	2013	Principal (Inflated)	Forecast						
			2014	2015	2016	2017	2018	2019	2020
2014		-		-	-	-	-	-	-
2015		-		-	-	-	-	-	-
2016		-		-	-	-	-	-	-
2017		-		-	-	-	-	-	-
2018		-		-	-	-	-	-	-
2019		-		-	-	-	-	-	-
2020		-		-	-	-	-	-	-
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-

Table 16
Town of Pelham
Water Service
Schedule of Growth Related Debenture Repayments
Inflated \$

Debenture Year	2013	Principal (Inflated)	Forecast						
			2014	2015	2016	2017	2018	2019	2020
2014		-		-	-	-	-	-	-
2015		660,000		-	85,473	85,473	85,473	85,473	85,473
2016		-		-	-	-	-	-	-
2017		-		-	-	-	-	-	-
2018		-		-	-	-	-	-	-
2019		1,419,000		-	-	-	-	-	183,767
2020		-		-	-	-	-	-	-
Total Annual Debt Charges	-	2,079,000	-	-	85,473	85,473	85,473	85,473	269,240

Table 17
Town of Pelham
Water Service
Water Capital Reserve Funds Continuity
Inflated \$

Description	2013	2014	2015	2016	2017	2018	2019	2020
Opening Balance	990,613	1,586,831	1,621,046	2,139,358	2,373,488	2,614,643	2,671,452	3,090,466
Transfer from Operating	550,000	522,000	487,000	450,000	411,000	371,000	329,000	285,000
Transfer from Other	-	-	-	-	-	-	-	-
Transfer from Capital	-	-	-	-	-	-	-	-
Transfer to Capital	-	535,000	31,000	285,000	246,000	392,000	-	-
Transfer to Other	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-
Closing Balance	1,540,613	1,573,831	2,077,046	2,304,358	2,538,488	2,593,643	3,000,452	3,375,466
Interest	46,218	47,215	62,311	69,131	76,155	77,809	90,014	101,264

Table 18
Town of Pelham
Water Service
Water Development Charges Reserve Fund Continuity
Inflated \$

Description	2013	2014	2015	2016	2017	2018	2019	2020
Opening Balance	205,894	212,071	148,080	1,245	(9,911)	(19,867)	(28,539)	(35,875)
Transfer from Operating	-	-	-	-	-	-	-	-
Development Charges Proceeds	-	71,696	73,128	74,606	76,096	77,632	79,182	80,781
Transfer from Capital	-	-	-	-	-	-	-	-
Transfer to Capital	-	140,000	220,000	-	-	-	-	-
Transfer to Other	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	85,473	85,473	85,473	85,473	269,240
Closing Balance	205,894	143,767	1,208	(9,623)	(19,288)	(27,707)	(34,830)	(224,334)
Interest	6,177	4,313	36	(289)	(579)	(831)	(1,045)	(6,730)
Required from Development Charges	-	140,000	880,000	-	-	-	1,419,000	-

Table 22
Town of Pelham
Water Services
Operating Budget Forecast
Inflated \$

Description	Budget 2013	Forecast						
		2014	2015	2016	2017	2018	2019	2020
Expenditures								
Operating Costs								
<i>Fixed Costs:</i>								
Admin	531,200	541,800	552,600	563,700	575,000	586,500	598,200	610,200
Overhead	-	-	-	-	-	-	-	-
Materials	114,650	116,900	119,200	121,600	124,000	126,500	129,000	131,600
Taxes, Rentals, Legal fees	20,600	21,000	21,400	21,800	22,200	22,600	23,100	23,600
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Total Fixed Costs	666,450	679,700	693,200	707,100	721,200	735,600	750,300	765,400
<i>Variable Costs:</i>								
Contracts	108,500	110,700	112,900	115,200	117,500	119,900	122,300	124,700
Utilities	-	-	-	-	-	-	-	-
Chemicals	6,350	6,700	7,000	7,400	7,800	8,200	8,600	9,000
Purchased Water	1,074,567	1,101,926	1,141,393	1,182,236	1,224,502	1,268,241	1,313,502	1,360,337
Other	10,500	10,700	10,900	11,100	11,300	11,500	11,700	11,900
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Total Variable Costs	1,199,917	1,230,026	1,272,193	1,315,936	1,361,102	1,407,841	1,456,102	1,505,937
Total Fixed and Variable Costs	1,866,367	1,909,726	1,965,393	2,023,036	2,082,302	2,143,441	2,206,402	2,271,337
Capital-Related								
Existing Debt (Principal) - Growth Related	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Growth Related	-	-	-	-	-	-	-	-
New Growth Related Debt (Principal)	-	-	-	52,473	55,097	57,852	60,744	176,598
New Growth Related Debt (Interest)	-	-	-	33,000	30,376	27,622	24,729	92,642
Existing Debt (Principal) - Non-Growth Related	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Non-Growth Related	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-
Transfer to Capital Reserve Fund	550,000	522,000	487,000	450,000	411,000	371,000	329,000	285,000
Transfer to Development Charges Reserve Fund	-	-	-	-	-	-	-	-
Transfer to Lifecycle Reserve Fund	-	-	-	-	-	-	-	-
Transfer to Rate Stabilization Reserve	-	-	-	-	-	-	-	-
Transfer to Contingency -Operating - Reserve	-	-	-	-	-	-	-	-
Sub Total Capital Related	550,000	522,000	487,000	535,473	496,473	456,473	414,473	554,240
Total Expenditures	2,416,367	2,431,726	2,452,393	2,558,509	2,578,775	2,599,914	2,620,875	2,825,577
Revenues								
Base Charge	635,722	641,733	647,083	652,432	657,782	663,131	668,481	673,831
Other Revenue	151,078	154,100	157,200	160,300	163,500	166,800	170,100	173,500
Contributions from Capital Reserve Fund	-	-	-	-	-	-	-	-
Contributions from Development Charges Reserve Fund	-	-	-	85,473	85,473	85,473	85,473	269,240
Contributions from Lifecycle Reserve Fund	-	-	-	-	-	-	-	-
Contributions from Rate Stabilization Reserve Fund	-	-	-	-	-	-	-	-
Contributions from Contingency Reserve Fund	-	-	-	-	-	-	-	-
Total Operating Revenue	786,800	795,833	804,283	898,205	906,755	915,404	924,054	1,116,571
Water Billing Recovery - Total	1,629,567	1,635,893	1,648,110	1,660,304	1,672,020	1,684,509	1,696,821	1,709,006

Table 23
 Town of Pelham
 Water Services
 Water Rate Forecast
 Inflated \$

Description	2013	2014	2015	2016	2017	2018	2019	2020
Total Water Billing Recovery	1,629,567	1,635,893	1,648,110	1,660,304	1,672,020	1,684,509	1,696,821	1,709,006
<i>Constant Rate</i>								
Total Volume (m ³)	1,209,039	1,213,539	1,222,539	1,231,539	1,240,539	1,249,539	1,258,539	1,267,539
<i>Constant Rate</i>	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Annual Percentage Change		0.02%	0.01%	0.00%	-0.02%	0.02%	0.01%	0.00%

Table 24
Town of Pelham
Wastewater Service
Capital Budget Forecast
Uninflated \$

Description	Total	Forecast						
		2014	2015	2016	2017	2018	2019	2020
Capital Expenditures								
Projects in 5-year Capital Budget:								
Sanitary Lateral Replacement Program	240,000		60,000	60,000	60,000	60,000		
Haist Street: Canboro Road to Highway 20	60,000	60,000						
Highway 20: Lookout Street to Pinecrest	120,000	120,000						
Merritt Road: Line Avenue to Rice Road	850,000		850,000					
Rice Road: Station Street to Rice Road	850,000	850,000						
Highland Avenue: Elizabeth Drive	24,000	24,000						
Fenwick Revitalization	94,600	94,600						
Pelham Street Reconstruction: College Street to Port Robinson	60,000		60,000					
Welland Road and Deer Park Crescent Sewer Replacement	706,000		706,000					
Station Street: Port Robinson	200,000			200,000				
College Street (5 Lateral Replacements)	60,000				60,000			
Pelham Street : Port Robinson Road to Pancake Lane (7 Lateral replacements)	84,000				84,000			
Pelham Street: Pancake Lane to Spruceside Crescent (North entrance) (4 Lateral replacements)	48,000					48,000		
Emmett Street (5 Lateral replacements)	60,000					60,000		
Port Robinson Road New Sanitary sewer to service new development	850,000	850,000						
Church Street Upgrade existing sewer from 250 mm dia to 350 mm	906,400						906,400	
Foss Road Upgrade existing sewer from 350 mm dia to 450 mm	592,800						592,800	
Welland Road Upgrade existing sewer from 200 mm dia to 300 mm	742,600						742,600	
East Fonhill Collector Road New watermain to service new development	683,552	683,552						
Longer Term Growth Related:								
Provision for potential oversizing	-							
Pelham Town Square Extension New 300 mm Sewer to service new development	125,000						125,000	
Growth Project 3	632,000						632,000	
	-							
Total Capital Expenditures	7,988,952	2,682,152	1,676,000	260,000	204,000	168,000	2,998,800	-

Table 25
Town of Pelham
Wastewater Service
Capital Budget Forecast
Inflated \$

Description	Budget 2013	Total	Forecast						
			2014	2015	2016	2017	2018	2019	2020
Capital Expenditures									
Projects in 5-year Capital Budget:									
Sanitary Lateral Replacement Program		252,000	-	61,000	62,000	64,000	65,000	-	-
Haist Street: Canboro Road to Highway 20		60,000	60,000	-	-	-	-	-	-
Highway 20: Lookout Street to Pinecrest		120,000	120,000	-	-	-	-	-	-
Merritt Road: Line Avenue to Rice Road		867,000	-	867,000	-	-	-	-	-
Rice Road: Station Street to Rice Road		850,000	850,000	-	-	-	-	-	-
Highland Avenue: Elizabeth Drive		24,000	24,000	-	-	-	-	-	-
Fenwick Revitalization		95,000	95,000	-	-	-	-	-	-
Pelham Street Reconstruction: College Street to Port Robinson		61,000	-	61,000	-	-	-	-	-
Welland Road and Deer Park Crescent Sewer Replacement		720,000	-	720,000	-	-	-	-	-
Station Street: Port Robinson		208,000	-	-	208,000	-	-	-	-
College Street (5 Lateral Replacements)		64,000	-	-	-	64,000	-	-	-
Pelham Street : Port Robinson Road to Pancake Lane (7 Lateral replacements)		89,000	-	-	-	89,000	-	-	-
Pelham Street: Pancake Lane to Spruceside Crescent (North entrance) (4 Lateral replacements)		52,000	-	-	-	-	52,000	-	-
Emmett Street (5 Lateral replacements)		65,000	-	-	-	-	65,000	-	-
Port Robinson Road New Sanitary sewer to service new development		850,000	850,000	-	-	-	-	-	-
Church Street Upgrade existing sewer from 250 mm dia to 350 mm		1,001,000	-	-	-	-	-	1,001,000	-
Foss Road Upgrade existing sewer from 350 mm dia to 450 mm		654,000	-	-	-	-	-	654,000	-
Welland Road Upgrade existing sewer from 200 mm dia to 300 mm		820,000	-	-	-	-	-	820,000	-
East Fonhill Collector Road New watermain to service new development		684,000	684,000	-	-	-	-	-	-
Longer Term Growth Related:									
Provision for potential oversizing		138,000	-	-	-	-	-	138,000	-
Pelham Town Square Extension New 300 mm Sewer to service new development		698,000	-	-	-	-	-	698,000	-
Growth Project 3		-	-	-	-	-	-	-	-
Total Capital Expenditures		8,372,000	2,683,000	1,709,000	270,000	217,000	182,000	3,311,000	-
Capital Financing									
Grant Funding		-	-	-	-	-	-	-	-
Municipal Act		-	-	-	-	-	-	-	-
Development Charges Reserve Fund		220,000	220,000	-	-	-	-	-	-
Growth Related Debenture Requirements		5,668,904	770,904	1,587,000	-	-	-	3,311,000	-
Operating Contributions		-	-	-	-	-	-	-	-
Lifecycle Reserve Fund		-	-	-	-	-	-	-	-
Wastewater Reserve		1,691,000	900,000	122,000	270,000	217,000	182,000	-	-
Non-Growth Related Debenture Requirements		792,096	792,096	-	-	-	-	-	-
Total Capital Financing		8,372,000	2,683,000	1,709,000	270,000	217,000	182,000	3,311,000	-

Table 26
Town of Pelham
Wastewater Service
Schedule of Non-Growth Related Debenture Repayments
Inflated \$

Debenture Year	2013	Principal (Inflated)	Forecast						
			2014	2015	2016	2017	2018	2019	2020
2014		792,096		102,580	102,580	102,580	102,580	102,580	102,580
2015		-			-	-	-	-	-
2016		-							
2017		-							
2018		-							
2019		-							
2020		-							
Total Annual Debt Charges	-	792,096	-	102,580	102,580	102,580	102,580	102,580	102,580

Table 27
Town of Pelham
Wastewater Service
Schedule of Growth Related Debenture Repayments
Inflated \$

Debenture Year	2013	Principal (Inflated)	Forecast						
			2014	2015	2016	2017	2018	2019	2020
2014		770,904		99,836	99,836	99,836	99,836	99,836	99,836
2015		1,587,000			205,524	205,524	205,524	205,524	205,524
2016		-				-	-	-	-
2017		-							
2018		-							
2019		3,311,000							
2020		-							428,790
Total Annual Debt Charges	-	5,668,904	-	99,836	305,359	305,359	305,359	305,359	734,149

Table 28
Town of Pelham
Wastewater Service
Wastewater Capital Reserves/ Reserve Funds Continuity
Inflated \$

Description	2013	2014	2015	2016	2017	2018	2019	2020
Opening Balance	746,042	768,423	147,726	217,048	141,159	117,584	139,651	360,141
Transfer from Operating	-	275,000	185,000	190,000	190,000	200,000	210,000	220,000
Transfer from Other	-	-	-	-	-	-	-	-
Transfer from Capital	-	-	-	-	-	-	-	-
Transfer to Capital	-	900,000	122,000	270,000	217,000	182,000	-	-
Transfer to Other	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-
Closing Balance	746,042	143,423	210,726	137,048	114,159	135,584	349,651	580,141
Interest	22,381	4,303	6,322	4,111	3,425	4,068	10,490	17,404

Table 29
Town of Pelham
Wastewater Service
Wastewater Development Charges Reserve Fund Continuity
Inflated \$

Description	2013	2014	2015	2016	2017	2018	2019	2020
Opening Balance	149,419	153,902	5,766	(21,570)	(259,893)	(503,831)	(753,505)	(1,009,073)
Transfer from Operating	-	-	-	-	-	-	-	-
Development Charges Proceeds	-	71,696	73,128	74,606	76,096	77,632	79,182	80,781
Transfer from Capital	-	-	-	-	-	-	-	-
Transfer to Capital	-	220,000	-	-	-	-	-	-
Transfer to Other	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	99,836	305,359	305,359	305,359	305,359	734,149
Closing Balance	149,419	5,598	(20,941)	(252,323)	(489,156)	(731,558)	(979,682)	(1,662,441)
Interest	4,483	168	(628)	(7,570)	(14,675)	(21,947)	(29,390)	(49,873)
Required from Development Charges	-	990,904	1,587,000	-	-	-	3,311,000	-

Table 33
Town of Pelham
Wastewater Services
Operating Budget Forecast
Inflated \$

Description	Budget 2013	Forecast							
		2014	2015	2016	2017	2018	2019	2020	
Expenditures									
Operating Costs									
<i>Fixed Costs:</i>									
Admin	200,008	204,000	208,100	212,300	216,500	220,800	225,200	229,700	
Overhead	-	-	-	-	-	-	-	-	
Total Fixed Costs	200,008	204,000	208,100	212,300	216,500	220,800	225,200	229,700	
<i>Variable Costs:</i>									
Contracts	85,000	86,700	88,400	90,200	92,000	93,800	95,700	97,600	
Purchased Volumes	1,200,000	1,204,002	1,240,122	1,277,326	1,315,645	1,355,115	1,395,768	1,437,641	
Utilities	-	-	-	-	-	-	-	-	
Chemicals	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	
Total Variable Costs	1,285,000	1,290,702	1,328,522	1,367,526	1,407,645	1,448,915	1,491,468	1,535,241	
Sub Total Operating	1,485,008	1,494,702	1,536,622	1,579,826	1,624,145	1,669,715	1,716,668	1,764,941	
Capital-Related									
Existing Debt (Principal) - Growth Related									
Existing Debt (Interest) - Growth Related									
New Growth Related Debt (Principal)		-	61,290	190,529	200,055	210,058	220,561	494,828	
New Growth Related Debt (Interest)		-	38,545	114,831	105,304	95,301	84,799	239,321	
Existing Debt (Principal) - Non-Growth Related									
Existing Debt (Interest) - Non-Growth Related									
New Non-Growth Related Debt (Principal)		-	62,975	66,124	69,430	72,902	76,547	80,374	
New Non-Growth Related Debt (Interest)		-	39,605	36,456	33,150	29,678	26,033	22,206	
Transfer to Capital	-	-	-	-	-	-	-	-	
Transfer to Capital Reserve Fund	250,000	275,000	185,000	190,000	190,000	200,000	210,000	220,000	
Transfer to Development Charges Reserve Fund	-	-	-	-	-	-	-	-	
Transfer to Lifecycle Reserve Fund	-	-	-	-	-	-	-	-	
Transfer to Rate Stabilization Reserve	-	-	-	-	-	-	-	-	
Transfer to Contingency -Operating - Reserve	-	-	-	-	-	-	-	-	
Sub Total Capital Related	250,000	275,000	387,416	597,939	597,939	607,939	617,939	1,056,729	
Total Expenditures	1,735,008	1,769,702	1,924,038	2,177,765	2,222,085	2,277,654	2,334,608	2,821,670	
Revenues									
Base Charge	676,628	680,465	700,522	721,109	742,240	763,928	786,186	809,029	
Other Revenue	-	-	-	-	-	-	-	-	
Contributions from Capital Reserve Fund	-	-	-	-	-	-	-	-	
Contributions from Development Charges Reserve Fund	-	-	99,836	305,359	305,359	305,359	305,359	734,149	
Contributions from Lifecycle Reserve Fund	-	-	-	-	-	-	-	-	
Contributions from Rate Stabilization Reserve Fund	-	-	-	-	-	-	-	-	
Contributions from Contingency Reserve Fund	-	-	-	-	-	-	-	-	
Total Operating Revenue	676,628	680,465	800,357	1,026,469	1,047,599	1,069,287	1,091,545	1,543,178	
Wastewater Billing Recovery - Total	1,058,380	1,089,237	1,123,680	1,151,296	1,174,486	1,208,367	1,243,063	1,278,493	

Table 34
Town of Pelham
Wastewater Services
Wastewater Rate Forecast
Inflated \$

Description	2013	2014	2015	2016	2017	2018	2019	2020
Total Wastewater Billing Recovery	1,058,380	1,089,237	1,123,680	1,151,296	1,174,486	1,208,367	1,243,063	1,278,493
<i>Constant Rate</i>								
Total Volume (m ³)	1,028,132	1,032,632	1,041,632	1,050,632	1,059,632	1,068,632	1,077,632	1,086,632
<i>Constant Rate</i>	1.03	1.05	1.08	1.10	1.11	1.13	1.15	1.18
Annual Percentage Change		2%	2%	2%	1%	2%	2%	2%